

@HWI-EAS443:3:24:33:2036#0/1
AGATGGCCATCCGAATTCTTTTGGTCGCTGTCTGGCTGTC
+HWI-EAS443:3:24:33:2036#0/1
^Z_¥ZZ[a``^XZNQTQVZXTY]_`_WZY]ZWV][]J[
@HWI-EAS443:3:74:1367:921#0/1
AGATGGCCATCCGAATTCTTTTGGTCGCTGTCTGGCTGTC
+HWI-EAS443:3:74:1367:921#0/1
aabb_bbabbabbbbaabbbb]`__^ab`¥_b`ab[_G
@HWI-EAS443:3:32:1050:283#0/1
GGGTAAACCAGACATATGTTAACATCAGCAACACCAACTT
+HWI-EAS443:3:32:1050:283#0/1
aba[bbb`abaa`baaabaaa`_aa[aaaaa]a^`_Y_a`
@HWI-EAS443:3:32:1685:830#0/1
AGTTGGTGTGCTGATGTTAACATATGTCTGGTTTACCCC
+HWI-EAS443:3:32:1685:830#0/1
Y```__^``]W^a`¥Vb]`^`_]aabb_]`^`XNZ`[Y¥]L
@HWI-EAS443:3:18:1139:1572#0/1
AGTTGGTGTGCTGATGTTAACATATGTCTGGTTTACCCA
+HWI-EAS443:3:18:1139:1572#0/1
Va^abaaaa`]`ba_aaaaaa`abaa```aUUab`U[aZ
@HWI-EAS443:3:91:1157:1910#0/1
AGTTGGTGTGCTGATGTTAACATATGTCTGGTTTACCCA
+HWI-EAS443:3:91:1157:1910#0/1
abWYX``b_b``]ab__aa]^`^baa_FP`XPSaW¥]^a
@HWI-EAS443:3:31:325:729#0/1
GTTGGTGTGCTGATGTTAACATATGTCTGGTTTACCCAA
+HWI-EAS443:3:31:325:729#0/1
a`ab`Ya_aa`aa^`a_^UVYT]Y]^`_]U_a^Z``_]`
@HWI-EAS443:3:64:1370:1771#0/1
TTTGGGTAAACCAGACATATGTTAACATCAGCAACACCAA
+HWI-EAS443:3:64:1370:1771#0/1
^b`a`[F]abab¥b]^`¥a_¥b_a^`_aaY^`a_`_a]aa
@HWI-EAS443:3:11:1050:1121#0/1
CACTTGGGTAAACCAGACATATGTTAACATCAGCAACACC
+HWI-EAS443:3:11:1050:1121#0/1
aaaaa`_a¥aaa_aaaaaaaaaaaaaa`_aa_aa^a`_a_]`
@HWI-EAS443:3:12:1561:1041#0/1
TGGTGTGCTGATGTTAACATATGTCTGGTTTACCCAAGT
+HWI-EAS443:3:12:1561:1041#0/1
a```babbabb^b_aba^]`aaaa__aaa[aa]W]Y`__Q
@HWI-EAS443:3:14:1602:823#0/1
CACTTGGGTAAACCAGACATATGTTAACATCAGCAACACC
+HWI-EAS443:3:14:1602:823#0/1
`aa`^bb_abaa]aa_bababaa^[`_ab¥`b_a`Wa^U
@HWI-EAS443:3:14:498:532#0/1
ACTTGGGTAAACCAGACATATGTTAACATCAGCAACACCA
+HWI-EAS443:3:14:498:532#0/1
a`__aa`^a_aaa__X^a`^_a]^`V]^`¥X_^]a_Z^XZ^
@HWI-EAS443:3:36:824:786#0/1
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+HWI-EAS443:3:36:824:786#0/1
ab`_`ba¥^`_a[`a_a``aab^)`_^^a`[_^aI^a`V`
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CTTGGGTAAACCAGACATATGTTAACATCAGCAACACCAA
+HWI-EAS443:3:53:594:2036#0/1
abaa]bV)`b`_aa^a`a`aaaaabaa`aa^a`]aZ`aa
@HWI-EAS443:3:63:331:41#0/1
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+HWI-EAS443:3:63:331:41#0/1
aaaaaaU^`a`_aaa_a^a[aaa`_a`_aW_a^`_`^a_W`J
@HWI-EAS443:3:68:430:1714#0/1
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+HWI-EAS443:3:68:430:1714#0/1
Y]ba][[`W_bb^S`_Ubbaa[aaabbbb`a`¥bbbb_b
@HWI-EAS443:3:79:1038:1961#0/1
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+HWI-EAS443:3:79:1038:1961#0/1
aaabaaa_Sbbb`abaaaaaaa__baaaaa¥_ba`a`_
@HWI-EAS443:3:83:138:1228#0/1
CTTGGGTAAACCAGACATATGTTAACATCAGCAACACCAA
+HWI-EAS443:3:83:138:1228#0/1
aaZV[G`Y_aa`Y_aa``aaa_¥`a`_aa_ZT]a``__^
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ACTTGGGTAAACCAGACATATGTTAACATCAGCAACACCA
+HWI-EAS443:3:8:1691:246#0/1
aZbaa`aaa_a][^`_]_aa]aaaaa]X`a]¥_Ua_U_QLY
@HWI-EAS443:3:93:442:34#0/1
CACTTGGGTAAACCAGACATATGTTAACATCAGCAACACC
+HWI-EAS443:3:93:442:34#0/1
aaa_a`a^`__`[]aa_aaaaa¥¥a_¥)`_`a]`__`]
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CTGCTTTTGCTGGAAAGAACACAGATCTTGAGGCTCTCAT
+HWI-EAS443:3:50:948:300#0/1
abbabbbb`Y`b`babbbbaabaababbaaba`ZQTS
@HWI-EAS443:3:82:1782:211#0/1
CTTCATTACTCATGTCAAAGGAAGGCACGATTGGGGTGGT
+HWI-EAS443:3:82:1782:211#0/1
ab]ZbbabX^^^a¥¥U^`VL`ba_XR`BBBBBBBBBBBB
@HWI-EAS443:3:55:1706:1447#0/1
AGTGACCACGGAAGCTGCTTTTGGTCTAGTGTGTGCCACT
+HWI-EAS443:3:55:1706:1447#0/1
ab_bb_^]RO¥b`¥]TY]¥__X`Q_]_Z[[]a][SY[_`
@HWI-EAS443:3:89:1675:996#0/1
ACGAGAGGATCACTTGAATCGCTGTATCTGCACTCCCATT
+HWI-EAS443:3:89:1675:996#0/1
aab_aabaaa`_`babab`Y__a__^_]_a[^`__^`_]
@HWI-EAS443:3:80:988:258#0/1
CATCCTAGCTCCAGTGTCTGCTGAAGGACGACCTTCTTG
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`ba]ab`]XX`¥0S_X¥]XXS^W_NJ`]FGJOZ][M[_T

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+HWI-EAS443:3:20:987:1160#0/1
a`aaaa`aa]¥Z_Z`__]Sa]]^X__ZZW^ZW_^]]ZW
@HWI-EAS443:3:72:1043:387#0/1
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+HWI-EAS443:3:72:1043:387#0/1
aaabaa¥a_bb^S`]Zbb`a`aaIZKa]__ZW]`a`^¥¥_
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GCCCATCCGAATTCTTTTGGTCGCTGTCTGGCTGTCAGTA
+HWI-EAS443:3:6:318:1784#0/1
I_X¥aaZaaabaZbb^[`bb]a_aa`_]bbb_`b¥WX`UB
@HWI-EAS443:3:44:773:453#0/1
TAGCATACTTACTGACAGCCAGACAGCGACCCAAAGAATT
+HWI-EAS443:3:44:773:453#0/1
OR_¥U_Q^_¥aaa^¥Y^_I_¥aSWV]a_QRNG[0¥Q¥[JJ
@HWI-EAS443:3:92:1551:480#0/1
ATTCTGTTTTTCATGCCTGATTAGTGGATTGGTGATAGTAG
+HWI-EAS443:3:92:1551:480#0/1
aba_bb]Y^^a_`U`]_XY¥a_aaab^`^aaPLXP[a_[W
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+HWI-EAS443:3:84:730:1940#0/1
`^^b^W¥P]Z[Za¥QZVOKXXOXBBBBBBBBBBBBBBB
@HWI-EAS443:3:59:322:631#0/1
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+HWI-EAS443:3:59:322:631#0/1
^baabb`b`aa```aa`aa]UT_Z^UX]VZWSZZNMRXL
@HWI-EAS443:3:58:1127:519#0/1
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+HWI-EAS443:3:58:1127:519#0/1
aaaaab_aaaa`aa__aaa`____`b`aa`aaa``aa¥G_
@HWI-EAS443:3:59:1328:894#0/1
AAAGTACACATCAGGAAGACAAGAGAAGAATCCCGAACTC
+HWI-EAS443:3:59:1328:894#0/1
^DQVV][R]N¥ZXX]PT]Q¥Z^`Z_SYZTMXSUUXDKY]Y
@HWI-EAS443:3:4:437:1272#0/1
GACCATATGGCCATAATCAAAAAGTACACATCAAGAATTC
+HWI-EAS443:3:4:437:1272#0/1
_b¥]]aaa_Z`W^aaaa_`[`[`Ra_aVTRQTa¥ZS[TR
@HWI-EAS443:3:62:354:225#0/1
ACCATATGGCCATAATCAAAAAGTACACATCAAGAAGCTT
+HWI-EAS443:3:62:354:225#0/1
a¥b¥baabaa[I]^`^a[[]`aN^__`__a_]_][]Z
@HWI-EAS443:3:31:1446:1068#0/1
CTTCTTGATGTGTACTTTTTGATTATGGCCATATGGTCCA
+HWI-EAS443:3:31:1446:1068#0/1
_¥aZ_X`Y]a_]Z_bYbbaaaba^S_^[]JR`HXYNBB
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ACCGGTTGGAATTTCTAGCATGGCGGAGGCCATGGTGTCT

+HWI-EAS443:3:100:50:1040#0/1
[^^Z_W¥b``YW^`aZ_^Z_aZG[DV]VZ¥]UP¥BBBBB
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+HWI-EAS443:3:37:1699:1609#0/1
aaa]aabXa¥`_aZGa^]SU`a]]^MIJVU^W`X¥X^]BB
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+HWI-EAS443:3:82:672:1710#0/1
^^]`a_Xa]ba_¥]`aab^aQbbaa`ZX`RTP^HIaU]aZ
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AGAGGACTTCTTTTGCTCATGTTGATTCCGACTAACTTG
+HWI-EAS443:3:43:681:1973#0/1
^[`KZa^baaYSVSTOQaaa]`X]Jb`¥IYIbR`a`V]S_
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CTGATGGCCATCCGAATTCTTTTGGTCGCTGTCTGGCTGT
+HWI-EAS443:3:73:1169:1660#0/1
aa`ba``babaaa]``aaaaaa¥^Taa`Ya_`Y_X`Z^U
@HWI-EAS443:3:38:1492:591#0/1
CTGATTAATGATCCCTGGGTTTTGCTTAATGCATCTTGGG
+HWI-EAS443:3:38:1492:591#0/1
`ZbVababbaUa_^a^b`babbaV]a_Yb[I`KZaa^bZF
@HWI-EAS443:3:62:106:1042#0/1
CGCCTGGGCTTTGCTTAATGCATCTTGGTTCAACTCCTTC
+HWI-EAS443:3:62:106:1042#0/1
ab^a_X^aJa]]]]^Z`aaaaaa`a__XU[``_a]V][R`
@HWI-EAS443:3:87:744:1078#0/1
GCCTGATTAATGATCCCTGGGCTTTGCTTAATGCATCTTG
+HWI-EAS443:3:87:744:1078#0/1
a^ab`_VZ`V`T]a_ba¥TROF00_]Y_X[]a]WS`_aW^
@HWI-EAS443:3:96:1313:697#0/1
GACCATCGTCAACATCCACAGCACTCTGTTGTTCTCCTGTTG
+HWI-EAS443:3:96:1313:697#0/1
`aPDX^__QU_WT[YVH]W_]OPN[U`NFR¥^[QG`aZBB
@HWI-EAS443:3:63:1071:373#0/1
GACAAAATGACCATCGTCAACATCCACAGCACTCTGTTGT
+HWI-EAS443:3:63:1071:373#0/1
a`X]a]ab`WXY[]YSY[PLXZXRW^__BBBBBBBBBB
@HWI-EAS443:3:51:1710:228#0/1
CTAATGGATGGCCATCCGAATTCTTTTGTTCGCTGTCTGG
+HWI-EAS443:3:51:1710:228#0/1
^XXQ_H]QaXYYP``SS`NP¥b[TWb`WPHLFTBBBBBB
@HWI-EAS443:3:98:578:1309#0/1
TCCGAATTCTTTTGGTCGCTGTCTGGCTGTCAGCAAGAAG
+HWI-EAS443:3:98:578:1309#0/1
`^R_abZ`]_ba_ba__ba^W_L`X_a_ZDIOVFFX[FYQ
@HWI-EAS443:3:29:483:1907#0/1
CATCCGAATTCTTTTGGTCGCTGTCTGGCTGTCAGAAAGA
+HWI-EAS443:3:29:483:1907#0/1
^a``¥UaZ]bbab`[S^VUY`ZUGWY_BBBBBBBBBBBBB

@HWI-EAS443:3:42:539:1214#0/1
TGTCAGTAAGAATGCTAGAGTCCCGTTTTTCGGTTCATTAC
+HWI-EAS443:3:42:539:1214#0/1
ZS`Q_`W¥RDTQQZPZZ`b`aSRRIW¥U]H[PDVUMYN
@HWI-EAS443:3:12:115:1801#0/1
TTTTGGTCGCTGTCTGGCTGTCAGTAAGAATGCTAGAGTC
+HWI-EAS443:3:12:115:1801#0/1
[`aa`[Pbab]^`baTR_aXXTWDXMXHDXWDZQ_Y_XU_
@HWI-EAS443:3:19:662:350#0/1
ATCCGAATTCTTTTGGTCGCTGTCTGGCTGTCAGTAAGAA
+HWI-EAS443:3:19:662:350#0/1
ab_]¥[aaaa`aaa^]L^a```[¥]a`[YaLGW`YBBBBB
@HWI-EAS443:3:36:911:1681#0/1
CTGGCTGTCAGTAAGAATGCTAGAGTCCCGTTTTTCGTTTC
+HWI-EAS443:3:36:911:1681#0/1
^aa`a`_]a¥Wxa__LVb]V]YUYa^¥UV`X]a```¥aaa
@HWI-EAS443:3:51:1102:762#0/1
TCCGAATTCTTTTGGTCGCTGTCTGGCTGTCAGTAAGAAT
+HWI-EAS443:3:51:1102:762#0/1
aX_Z_Yb]S_aa^QV]a[_aX[aBBBBBBBBBBBBBBBB
@HWI-EAS443:3:83:794:866#0/1
GACAAAATGACCATCGTCAACATCCACAGCACTCTGCTGA
+HWI-EAS443:3:83:794:866#0/1
X^aaYMU^X_ab`^¥^R``_¥_aaYQ`_]V`SY`OQ]JVD
@HWI-EAS443:3:71:194:1040#0/1
ACGCGAGATACTACTAAGACCACTGTGGACCATATGGCC
+HWI-EAS443:3:71:194:1040#0/1
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@HWI-EAS443:3:18:1382:1667#0/1
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+HWI-EAS443:3:18:1382:1667#0/1
aa^b^ab_U[LP_aaX`_Z_^^`__aaa^_[_Yaa]_¥Y^
@HWI-EAS443:3:11:1484:1720#0/1
AGTCCTCGTGTATGGGGCATTACCACCCATCTACTCTC
+HWI-EAS443:3:11:1484:1720#0/1
aa]^^aaaaa¥`a_¥X[`a_^^Y]]S`SXU^^U]^UZM^¥
@HWI-EAS443:3:76:503:1088#0/1
CATGAACCAGTCTCGTGACATTTCTCGATGGTCATGTCA
+HWI-EAS443:3:76:503:1088#0/1
aaVRVZa_HP¥RQ_aQ`R`a`[_`[^SXH[ZTVUY_W¥V
@HWI-EAS443:3:38:714:578#0/1
CTCGCCACTTTTCATTTCTGCTCTGGAGGTAGTGAAGGTT
+HWI-EAS443:3:38:714:578#0/1
aaa`_abb]abaaaa_aaa`aaa`aa`a`a`Y]_0^¥^`]JF
@HWI-EAS443:3:78:1212:1214#0/1
CTCGCCACTTTTCATTTCTGCTCTGGAGGTAGTGAAGGTT
+HWI-EAS443:3:78:1212:1214#0/1
aaaa`aaaaaab`abaa`aa`^`a_^^S`]V[]^[YIM
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+HWI-EAS443:3:18:1511:1244#0/1
aaabaaaaaa`aa`_a`_`_a`_`_____^`¥a^`Y_ZK[^
@HWI-EAS443:3:78:687:1271#0/1
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+HWI-EAS443:3:78:687:1271#0/1
aaaa`]aaabaa`aa__a`_`_``_`^`_`a__^^__Y]
@HWI-EAS443:3:53:669:495#0/1
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+HWI-EAS443:3:53:669:495#0/1
aba_ababaab`aa_aba`_aaaaaba`_a`_a_a`aa`
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CAAGAACCCCGCACTCAGAATGAGGTGGATGATGGNAATG
+HWI-EAS443:3:13:1224:1406#0/1
H]WaW__^^_b^]]a`_baab`[b`¥b]aa`b__UDY`]]
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GAAGAACCCCGCACTCAGAATGAGGTGGATGATGGCAATG
+HWI-EAS443:3:73:897:706#0/1
aaababbbaaaaaabaaa¥_aaXSZa`^aa`aa`_`_`_a
@HWI-EAS443:3:17:858:734#0/1
ACTGTGCCCATGGAGTATCCTGTTCCCTGTTCCATGGCTGT
+HWI-EAS443:3:17:858:734#0/1
_`baa_VZX_]b]Mb_aabV]b`YHQ^^JaYYGX___BBB
@HWI-EAS443:3:96:419:527#0/1
GTGCGTTTTAAATACGGTTTTGAAAAGAGGGCCTTGTTCGGA
+HWI-EAS443:3:96:419:527#0/1
aUaXNWVX]]`XN^aWR[_`]UGV]R^LQ¥NX^GMHLXBB
@HWI-EAS443:3:68:155:1066#0/1
CGCGGGAAGTCTTCGAGCTCTCGGACGAAAAGGCAACGAA
+HWI-EAS443:3:68:155:1066#0/1
a¥]T¥KIPDIXON`XKR[XZ¥^VZZUKPPJPRTRXBBBB
@HWI-EAS443:3:11:1653:958#0/1
TGCCTGAGTCCATGAGGGAAGAGTATCAACAGGAACAGCA
+HWI-EAS443:3:11:1653:958#0/1
_¥`]`^`aa_RS[bNP`]0`aTP`]XXP^OZY¥[Z^¥ZKY
@HWI-EAS443:3:68:846:731#0/1
CTCTGCAAAGCAGGTAGATATTTAAAGATGAGTCTTCTA
+HWI-EAS443:3:68:846:731#0/1
abbaa`bb_abaabb[baa_^`baa_¥aaaa`^_aba`aa
@HWI-EAS443:3:43:1159:1907#0/1
GGGTTTTTTTTATCATTAAATAAGCTGAAACGAGAAAGCT
+HWI-EAS443:3:43:1159:1907#0/1
__^Wa`baaaaa`¥]ba`aa`aa^W^^`_``_``_`_Zoy
@HWI-EAS443:3:73:464:494#0/1
CTGCAGCAAATATCATTGGGATCTTGACCTGATATTGTG
+HWI-EAS443:3:73:464:494#0/1
abbbbaba``baaaabaaYa`aaaaaaa`aba`aaaa]a
@HWI-EAS443:3:5:550:967#0/1
CTCTCGTCATTGCAGCAAATATCATTGGGATCTTGACCAT
+HWI-EAS443:3:5:550:967#0/1
a^`_a¥HY^baY_b]a_TabbaS`Va_U`_aZ^`aaW^BB

@HWI-EAS443:3:100:899:992#0/1
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+HWI-EAS443:3:100:899:992#0/1
]¥[SaW¥P`U_aZ]aSWUa]aabT¥ZaZUH_]ba`a¥aaB
@HWI-EAS443:3:74:483:1529#0/1
GGTGTATCCTGTTCCATGGCTGTATGGGGGGTGT
+HWI-EAS443:3:74:483:1529#0/1
a`R`aYP¥QXXOQZUZ]^0^^ZBBBBBBBBBBBBBBBBB
@HWI-EAS443:3:3:61:966#0/1
ATTGAACATAATCAGAGGGCGACCCAAAGAGAACAATCT
+HWI-EAS443:3:3:61:966#0/1
`^]]aa[U[[U_R]ZWEY`^[YU[¥[P`XXV^[`]ZFY¥S
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+HWI-EAS443:3:18:1199:1748#0/1
aab^b`ab`_]0_ab``a[aabaaa`[aaaXaaaa_Y`aZ
@HWI-EAS443:3:1:677:1923#0/1
CAACACTTGGGTAAACCAGACATATGTAAACATCAGCAAC
+HWI-EAS443:3:1:677:1923#0/1
`bbWbaaabb`Y¥bbRJ¥bb_baabbbbbb_abbMabb
@HWI-EAS443:3:21:1313:1573#0/1
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+HWI-EAS443:3:21:1313:1573#0/1
a]VRXUY[YTOLVZ`XSMZR^a^]XMR]¥PU[PZGSQZK
@HWI-EAS443:3:25:325:1061#0/1
CAACACTTGGGTAAACCAGACATATGTAAACATCAGCAAC
+HWI-EAS443:3:25:325:1061#0/1
a¥_]X]Z^_N[`aaaa^aa`_Q^`Xa`]^`a`_aaa^¥S
@HWI-EAS443:3:29:663:258#0/1
ACACTTGGGTAAACCAGACATATGTAAACATCAGCAACAC
+HWI-EAS443:3:29:663:258#0/1
aa`a`aa`a[_aa_`Z]^`_a`X`_X___`^_a`_]`_]
@HWI-EAS443:3:42:698:1406#0/1
TGTTGCTGATGTAAACATATGTCTGGTTTACCCAAGTGTT
+HWI-EAS443:3:42:698:1406#0/1
^RV]]`a[X`a[[_]W¥^¥`[`XYUUZ^Y[_`¥Q¥L]S^
@HWI-EAS443:3:66:1266:45#0/1
CAACACTTGGGTAAACCAGACATATGTAAACATCAGCAAC
+HWI-EAS443:3:66:1266:45#0/1
abbababbbba_bab`aaba`ababbaaa`_aa]aa`aa^
@HWI-EAS443:3:66:1389:388#0/1
GTTGCTGATGTAAACATATGTCTGGTTTACCCAAGTGTTG
+HWI-EAS443:3:66:1389:388#0/1
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@HWI-EAS443:3:89:1370:370#0/1
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+HWI-EAS443:3:83:77:89#0/1
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Sa¥_I_U`b_[_`Z_YH]Ya[`¥K_ST]Y[SHYGUQFSZ
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+HWI-EAS443:3:6:833:61#0/1
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__Z¥aba¥I_`_`P^]_`_[aaZb[L]_¥Za_^a^[`^^Q
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+HWI-EAS443:3:10:1444:337#0/1
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X`V\_\_K` [ `RXQ\_`aYZa¥XP]Taaa`Y`aWP\_[`aa\_\_`  
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+HWI-EAS443:3:69:1499:647#0/1  
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+HWI-EAS443:3:9:1419:1610#0/1  
]aH\_bY`a¥abbaab`U`Ta^X`¥¥[]YZ[a`¥`[]NR¥D  
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+HWI-EAS443:3:9:209:50#0/1  
abbba`\_baaaabaaaaabaa\_`a`aaYJ[Za\_a\_]a\_\_  
@HWI-EAS443:3:81:1464:381#0/1  
TGTTGGTAATGAAACGAAAACGGGACTATAGAATACTTAC  
+HWI-EAS443:3:81:1464:381#0/1  
YZ]U[`\_a^MZ`b`Rb`^aYMa]WZVG^X]IZLZG\_X\_R  
@HWI-EAS443:3:76:1649:1700#0/1  
GGTCGCTGTCTGGCTGTCAGTAAGTATGCTATAGTCCCGT  
+HWI-EAS443:3:76:1649:1700#0/1  
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@HWI-EAS443:3:68:1311:54#0/1  
CGGGGACCGGTTGGAATTTCTAGCATGGTGGAGGCCATGG  
+HWI-EAS443:3:68:1311:54#0/1  
]¥^`ZV^`a¥`^`^`a`\_a^`^`[]`[OaX[a`MFV¥`[  
@HWI-EAS443:3:17:1646:725#0/1  
CCTGGGATGATGATGGGAATGTTTAACATGCTAAGTACGG  
+HWI-EAS443:3:17:1646:725#0/1  
X¥``abYN^bb¥`U`\_W¥a\_`V]]X``bbb\_bab`H`\_]\_J  
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CTGGGATGATGATGGGCATGTTTAAGATGCTAAGTACGGT  
+HWI-EAS443:3:73:1524:1778#0/1  
X^a\_^T[^\_`¥[]WWab¥X\_SWaabVbb\_R\_aZYL[\_VP[

@HWI-EAS443:3:84:905:118#0/1  
TACTTAGCATGTTAAACATGCCATCATCATCCCAGGACT  
+HWI-EAS443:3:84:905:118#0/1  
aaaa\_aa\_aaa`a`¥\_a\_]`\_¥`a¥^^\_]Z^\_^]0^  
@HWI-EAS443:3:70:1674:111#0/1  
GTCCTGGGATGATGATGGGCATGTTTAAACATGCTAAGTAC  
+HWI-EAS443:3:70:1674:111#0/1  
`aa`bbbb`baabbabbba^`bbabaa\_^aaaXa\_\_a^aU  
@HWI-EAS443:3:91:650:548#0/1  
GTCCTGGGATGATGATGGGCATGTTTAAACATGCTAAGTAC  
+HWI-EAS443:3:91:650:548#0/1  
aUZX]`\_]GX\_UY\_W¥\_VXWVY^YYVX^UX]]WOUS]GVV  
@HWI-EAS443:3:14:1039:1173#0/1  
ACCTGGGATGATGATGGGCATGTTTAAACATGCTAAGTACG  
+HWI-EAS443:3:14:1039:1173#0/1  
aaaaaaaa`baab`a`\_\_aa]`a\_]`\_]\_^]`X`Y]  
@HWI-EAS443:3:20:847:841#0/1  
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+HWI-EAS443:3:20:847:841#0/1  
`JW^b]V[]Ybbaaa[XZaabaaaa`¥V^a\_\_VVVZXa  
@HWI-EAS443:3:52:601:197#0/1  
CGTACTTAGCATGTTAAACATGCCATCATCATCCCAGGA  
+HWI-EAS443:3:52:601:197#0/1  
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CTGGGATGATGATGGGCATGTTTAAACATGCTAAGTACGGT  
+HWI-EAS443:3:23:1101:1549#0/1  
abbb`baa\_bbabaa`babaab`aabababb`a`aa\_aX  
@HWI-EAS443:3:46:1318:86#0/1  
ACCGTACTTAGCATGTTAAACATGCCATCATCATCCCAG  
+HWI-EAS443:3:46:1318:86#0/1  
aaabU[[]`\_^[]a\_\_\_\_\_]\_\_[]¥^Z\_ZZ[TU^VVRV]  
@HWI-EAS443:3:47:21:1457#0/1  
CCTGGGATGATGATGGGCATGTTTAAACATGCTAAGTACGG  
+HWI-EAS443:3:47:21:1457#0/1  
aa`baaV¥`[a\_\_\_WOLY¥UaZ\_]VVRQ]¥S[`ZRNZSWN  
@HWI-EAS443:3:58:1508:1658#0/1  
CCTGGGATGATGATGGGCATGTTTAAACATGCTAAGTACGG  
+HWI-EAS443:3:58:1508:1658#0/1  
Saa[[]X\_a^a`\_bb[]X`^`]\_S^QZ^\_ZW\_\_\_¥]]QX\_  
@HWI-EAS443:3:59:511:193#0/1  
CCTGGGATGATGATGGGCATGTTTAAACATGCTAAGTACGG  
+HWI-EAS443:3:59:511:193#0/1  
`]Zaa[QZa`\_b`¥¥`\_¥\_Y\_R¥V[[]^S]a[¥^¥]WS^[Q  
@HWI-EAS443:3:62:1262:1109#0/1  
CTGGGATGATGATGGGCATGTTTAAACATGCTAAGTACGGT  
+HWI-EAS443:3:62:1262:1109#0/1  
ab`bbabbabbaabbaabbbabaa\_]abbabaaa\_a`aa[  
@HWI-EAS443:3:74:451:1354#0/1  
CTGGGATGATGATGGGCATGTTTAAACATGCTAAGTACGGT

+HWI-EAS443:3:74:451:1354#0/1  
abb`^Zb`abbaa``\_aaaa[aaaa\_aa`a\_`[]^a`][W  
@HWI-EAS443:3:81:269:1119#0/1  
CTGGGATGATGATGGGCATGTTTAAACATGCTAAGTACGGT  
+HWI-EAS443:3:81:269:1119#0/1  
abbaa]abaab^baXaaXaaaa`aa`aaa\_`\_WX]a`a\_X  
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CTGGGATGATGATGGGCATGTTTAAACATGCTAAGTACGGT  
+HWI-EAS443:3:95:1411:860#0/1  
Vab`\_^bX¥[\_bb\_b\_S\_baabbb¥XaabY¥`b\_b^a`aP  
@HWI-EAS443:3:95:820:241#0/1  
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+HWI-EAS443:3:95:820:241#0/1  
abbabb`abbbbbbbaababb`bbba\_bbb]baab`a]a\_  
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+HWI-EAS443:3:87:296:693#0/1  
a\_aaaaaaaa\_]Z```aaaa`aaa`a``a`\_[^`\_`^`  
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ATCCGAATTCCTTTGGTCGCTGTCTGGCTGTCTAGTAAGTA  
+HWI-EAS443:3:4:239:1748#0/1  
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@HWI-EAS443:3:52:205:1941#0/1  
AATTGATGGCCATCCGAATTCCTTTGGTCGCTGTCTGGCT  
+HWI-EAS443:3:52:205:1941#0/1  
^`bbba`\_```aaaa[]aaaXG]`aaaS\_a]`a¥\_ZXRLV  
@HWI-EAS443:3:65:1114:1301#0/1  
ATTGATGGCCATCCGAATTCCTTTGGTCGCTGTCTGGCTG  
+HWI-EAS443:3:65:1114:1301#0/1  
^^]a]a¥ZZZaa[\_\_\_S\_^`]P¥NZa```TU\_L[]RSRX^  
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GTAGTTTTTTACTCTAGCTCTACGATGACAAAATGACCAT  
+HWI-EAS443:3:63:755:186#0/1  
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@HWI-EAS443:3:35:1152:1398#0/1  
GAGGAGTCTTCGAGCTCTCGGACGAAAAGGCAACGAACCC  
+HWI-EAS443:3:35:1152:1398#0/1  
``¥`b^aaab^ab`aaaaaaaa`aa`a``\_aa`a^a``Qa  
@HWI-EAS443:3:34:716:1967#0/1  
CCCTGGGTTTTGCTTAATGCATCTTGGTTCAACTCCTTCA  
+HWI-EAS443:3:34:716:1967#0/1  
aba`^¥`P\_a```abbb\_S`a¥aa`a\_]`^bba\_\_^\_a]]F  
@HWI-EAS443:3:37:1593:61#0/1  
CGGAGAACAACCTGTATGGGTTTATTATAAAAGGNAGGT  
+HWI-EAS443:3:37:1593:61#0/1  
]U¥UISK]TZ¥a`\_`R\_aaZ\_\_\_^aa[UaGTXR^KDDIHQ  
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CTTTCTTTTGACAGAAGACTCGGCCTCAATCGTGCTCTC  
+HWI-EAS443:3:65:247:301#0/1  
¥a]aabb¥b\_\_\_]`abaababaab]O\_Z]]]K]WOZRVIXQ

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+HWI-EAS443:3:46:1574:882#0/1  
\_\_T\_\_M\_``\_`^] ^ZWZ¥a]]^\_\_Z\_Z]^U¥ZZN\_Gaa\_\_  
@HWI-EAS443:3:85:152:1737#0/1  
CACGCTTTTGGCTGGACCATGGGCTGGCATTACCACAGCA  
+HWI-EAS443:3:85:152:1737#0/1  
\_XX\_baaUU¥Z^aZX]^\_0[TVW^GWZ¥U¥]]VXX` `[ZU  
@HWI-EAS443:3:26:1540:779#0/1  
GTGGTTTTTAAACAATTGACACTAATTGATGGCAATCCG  
+HWI-EAS443:3:26:1540:779#0/1  
a¥H\_ab`T`YQXH`T`\_`a[RNWYaY[XQVW\_a¥FEZ\_XKQ  
@HWI-EAS443:3:49:599:2024#0/1  
GTGGTTTTTAAACAATTGACACTAATTGATGGCAATCCG  
+HWI-EAS443:3:49:599:2024#0/1  
aWF^``aaaa\_`Va`a\_\_aYO¥VY¥¥¥]]Z[[[]ZRF¥[XRS  
@HWI-EAS443:3:18:1444:197#0/1  
GTCGTTTTTAAACAATTGACACTAATTGATGGCAATCCG  
+HWI-EAS443:3:18:1444:197#0/1  
\_X\_^[W^X\_UOL[^ZWXZ[Z¥S]`WYSUY[[WKDURUYW  
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CTAGTGGTCACTGTTCCCATCCTGTTGTATATGAGGCCCA  
+HWI-EAS443:3:57:373:923#0/1  
abb\_\_aa`aaa\_\_a]^`^^`\_\_a`aa^aaa\_]\_YUV¥\_a  
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+HWI-EAS443:3:96:671:1981#0/1  
aaTaTYYOaT]a\_\_a\_Y\_YZZa]Wa[¥¥]Y^W`\_OWZPBB  
@HWI-EAS443:3:73:1133:1256#0/1  
GTTCTGCACACTTTCCCAATAGAGCCTTCCTCCACTCCCC  
+HWI-EAS443:3:73:1133:1256#0/1  
a``aaaaaaaa^aa\_aa[[``XP¥Y^`]aZ` `V]Z\_^`]  
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AAATTTCTGGAGGGGCGAAAATGGACGGAGGACAAGGCGA  
+HWI-EAS443:3:8:1482:1558#0/1  
`ba`^[[Q\_aUa]]`GYSUX` `a¥¥[W^]`XREVQ¥OGXB  
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CAATGAATTGAGCAATCTTGCAAAAGGAGAGAAAGCTAAT  
+HWI-EAS443:3:80:528:59#0/1  
a``\_¥]aZ\_]¥[^a[\_\_aXa\_] ^S^YVXaa`\_¥]]Qa]^Z  
@HWI-EAS443:3:35:1491:893#0/1  
CATGGCCTCATATACAACAGGATGGGAACAGAGACAACA  
+HWI-EAS443:3:35:1491:893#0/1  
a`Y]aYSX\_Z¥U]^` `^`¥UXZ\_U¥Z¥N¥]FZXDD^VZ  
@HWI-EAS443:3:30:104:1615#0/1  
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+HWI-EAS443:3:30:104:1615#0/1  
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@HWI-EAS443:3:17:1406:548#0/1  
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+HWI-EAS443:3:17:1406:548#0/1  
abba^aaaaab^aa\_a\_a`^a^\_a\_aaaaa`a^\_`a`\_  
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CGAGGGGGAGGGAATACCGCTATATGATNTAATCAAATGC  
+HWI-EAS443:3:98:1412:1696#0/1  
Kb[bbbbbab]a¥bbaa[Wa\_baa[aaPDHbabWaab[bP  
@HWI-EAS443:3:39:214:919#0/1  
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+HWI-EAS443:3:39:214:919#0/1  
aSOZZ]`¥Za^YR¥YZ`¥a^¥]V\_WDR¥\_\_TJFM^\_^U]M  
@HWI-EAS443:3:57:545:572#0/1  
CGTCTTTCTCTTTGACAGAAGACTCGGCCTCAATCATGCT  
+HWI-EAS443:3:57:545:572#0/1  
aa`ba^`b`aaaaba\_abaXOXaaaaa\_]HVGZZ[^WZ¥X  
@HWI-EAS443:3:63:200:362#0/1  
CTTTTTTGGACAGCATGGATAGCAAATAGAAGCATTGCCA  
+HWI-EAS443:3:63:200:362#0/1  
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@HWI-EAS443:3:10:1306:318#0/1  
GTACTTTTTTGGACAGTATGGATAGCAAATAGCAACTTTG  
+HWI-EAS443:3:10:1306:318#0/1  
aU[\_\_\_[`\_TZSRBBBBBBBBBBBBBBBBBBBBBBBBBBB  
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GTACTTTTTTGGACAGTATGGATAGCAAATAGCAGCATTG  
+HWI-EAS443:3:88:272:1230#0/1  
\_UWUZYU`]P]Z[SXYQ[`ZSPIO[Y[BBBBBBBBBBBBB  
@HWI-EAS443:3:63:1609:1370#0/1  
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+HWI-EAS443:3:63:1609:1370#0/1  
a\_]^WZ¥`^^ab^XSXPX[`U]BBBBBBBBBBBBBBBBBBB  
@HWI-EAS443:3:2:456:1963#0/1  
GGTGTAGCCTGTTCCCTGTTCCATGGCTGTATGGAGGATGT  
+HWI-EAS443:3:2:456:1963#0/1  
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@HWI-EAS443:3:6:271:1210#0/1  
CTGTGAATCAGCAATCTGTTCAAGTAGCACACTCAA  
+HWI-EAS443:3:6:271:1210#0/1  
aaaababaaaaaaa`\_aa\_`a`aa\_]aa\_`^``\_\_\_\_`\_  
@HWI-EAS443:3:32:312:1863#0/1  
AGGTGCCACAGGGGAGACACACAAATTCAAACGAGAAGAT  
+HWI-EAS443:3:32:312:1863#0/1  
\_]WXTU]V]ULH[J[aWa\_]R^^SUU^]M]P]TNRKS]Y  
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+HWI-EAS443:3:67:302:1346#0/1  
`bb[\_a`¥]aa[aUR[\_R\_`a]UV]U^\_a``[TF¥SY\_  
@HWI-EAS443:3:87:1555:543#0/1  
CTTTTTTGGACAGTATGGATAGCAAATTGTAGCATTGCCA  
+HWI-EAS443:3:87:1555:543#0/1  
]¥¥U¥^a\_ba]```a[aYa\_aV^`\_a^^\_bba^aa`L¥a

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+HWI-EAS443:3:25:1165:705#0/1  
^bbbbbb\_abbbaabababJ`bbbbbbb\_ababbbbbbbab  
@HWI-EAS443:3:90:1277:1983#0/1  
GACACTAATTGATGGCCATACGAATTCTTTTGGTCGCTGT  
+HWI-EAS443:3:90:1277:1983#0/1  
`\_^\_P]a`Z`b¥^a`¥]^\_QaaaTXZ¥`]^`\_\_RG]Y¥ZB  
@HWI-EAS443:3:77:1295:1617#0/1  
CAGTAAGTATGCTAGAGTCCCGTTTTCGTTTCAACACTAC  
+HWI-EAS443:3:77:1295:1617#0/1  
`b\_abababbbabbbb\_\_babbbbbbbaabbbbababbbb  
@HWI-EAS443:3:76:1682:1254#0/1  
CTGATGTGTACTTTTTAATTATGGCCATATGGTCCACAGT  
+HWI-EAS443:3:76:1682:1254#0/1  
aa`a`^bbabbbbbbbaaa`aaZGXX`^\_H\_] [  
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+HWI-EAS443:3:45:830:934#0/1  
aabaX¥ba`Waaab`a¥¥\_aaaXa\_`[Y`¥]TX^`\_^\_]`  
@HWI-EAS443:3:11:81:1325#0/1  
GAAGGCACGATCGGGTTCGTTGCCTTTTTGTCCGAGAGCT  
+HWI-EAS443:3:11:81:1325#0/1  
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@HWI-EAS443:3:80:1277:1858#0/1  
CACAAATTCAAACGAGAAGATCATTGAGATAAAGAAGCT  
+HWI-EAS443:3:80:1277:1858#0/1  
abb]M]aaba\_a\_`Yb`U^a]]`YYY¥R`F¥[a`^a]\_XS  
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+HWI-EAS443:3:16:704:1117#0/1  
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+HWI-EAS443:3:69:1078:263#0/1  
a`¥¥^aa¥`YJ[a\_a\_Sa`bX`a`^\_X¥RLWBBBBBBB  
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+HWI-EAS443:3:96:1642:659#0/1  
aa\_ZaKaaZb`VYa¥b`WRVPaJa]I\_]WLFFT\_HUY[U\_  
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CATGCCTTGAAACAATGGAAGTCGTTCAAAAAACAAGGGT  
+HWI-EAS443:3:37:1682:967#0/1  
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@HWI-EAS443:3:3:1672:795#0/1  
AATTTCTAGCATGGGGGAGCCATGGTGTCTAGGGCCCGG  
+HWI-EAS443:3:3:1672:795#0/1  
aa\_X\_X\_aaW¥]aaSb`^^^UZ^]^M^¥KPX^WWSMG[B  
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+HWI-EAS443:3:62:1366:341#0/1  
a^VZI\_¥UaaaZQDPaX`a]POSQ]UZWZ00[^^FK¥` `S  
@HWI-EAS443:3:36:881:902#0/1  
TTTCTGGACAGTATGGATAGCAAATAGTAGCATTGCCACA  
+HWI-EAS443:3:36:881:902#0/1  
aaZ0\_aba`aa¥\_aa`\_aY\_aa`^]S`\_aT]X[\_aSX]  
@HWI-EAS443:3:92:26:1709#0/1  
AAAGTACACATCAGGAAGACAAGAGAAGAACCCAGCACTC  
+HWI-EAS443:3:92:26:1709#0/1  
^¥¥V\_`abaVa\_a`\_]`T[^a^`a`¥\_]RZX¥F¥\_\_¥W\_  
@HWI-EAS443:3:65:233:1109#0/1  
GTGGATTGTCCCCGAAAATCCCACTGCATATGTATCCTAT  
+HWI-EAS443:3:65:233:1109#0/1  
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+HWI-EAS443:3:90:1397:2041#0/1  
\_¥aXS0[W\_Q^VbJ\_U\_WHL¥ZY¥aFGKQJR[VWHX]a`^  
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+HWI-EAS443:3:12:1081:2036#0/1  
Z]ba]^`^Tba`[DUVTZN]VQ^^[TFJZWS\_`LEMN\_BB  
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GGGGGACGTANTGTTGGGAATGAAACGAAAACGGGACTCT  
+HWI-EAS443:3:87:1190:79#0/1  
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@HWI-EAS443:3:31:1595:280#0/1  
GGGGGACGTAGTGTGGTAATGAAACGAAAACGGGACTCT  
+HWI-EAS443:3:31:1595:280#0/1  
\_bbba\_abY¥¥R\_`aaa^¥\_\_Q^`\_NWN\_]\_LRZZ[HWTT  
@HWI-EAS443:3:33:947:1147#0/1  
GGGGGACGTAGTGTGGTAATGAAACGAAAACGGGACTCT  
+HWI-EAS443:3:33:947:1147#0/1  
a]a\_]`^NYW\_a¥a`¥N\_`aX^\_\_V]U]Z]SSMRWQV[\_  
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GGGGGACGTAGTGTGGTAATGAAACGAAAACGGGACTCT  
+HWI-EAS443:3:40:343:1291#0/1  
aQ^]XRF^MYLNNWBBBBBBBBBBBBBBBBBBBBBBBB  
@HWI-EAS443:3:62:159:540#0/1  
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+HWI-EAS443:3:62:159:540#0/1  
``X^M^\_V\_]Z^R]]^UW]]`U[`Y^ZPZUR[Z]RRX¥W  
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GGGGGACGTAGTGTGGTAATGAAACGAAAACGGGACTCT  
+HWI-EAS443:3:64:1776:755#0/1  
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`Y\_\_\_\_]\_\_PH`Q\_T\_\_[UT¥UN[Y\_YTGX\_\_TZ¥WHTN¥W



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+HWI-EAS443:3:77:415:768#0/1  
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+HWI-EAS443:3:5:963:221#0/1  
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+HWI-EAS443:3:27:566:1562#0/1  
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+HWI-EAS443:3:32:1573:340#0/1  
\_` `abbbbbb[Ra` `]]R` ` \_T]RV` [aX^]J¥[V`OW`a`  
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¥]F[Ta[\_ZWTUS`Z]\_[N¥^S\_ZZ\_H[XP\_YY^]VFMVM  
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Ka\_¥Xaab]LFY\_aa[W[\_UM[¥\_TNTWYWIN[WY]ZJZ

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aYaa`]]a\_a¥`[\_¥]a`^b[\_b`¥¥PV\_[[^\LDKV[Z^S  
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a\_\_Yaa]^^\_]`U\_Z[OZ¥YZ]^YWZWROTVV^W¥WVYV[  
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+HWI-EAS443:3:36:123:913#0/1  
a`a`\_aa`\_\_\_X`a`aaa`\_^^\_^^^`^`^`\_]`^MS\_S  
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+HWI-EAS443:3:91:927:437#0/1  
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+HWI-EAS443:3:77:311:1134#0/1  
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+HWI-EAS443:3:80:1158:1548#0/1  
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YG]\_¥aZ¥¥]\_RR^W\_\_ZXZU¥[¥\_X\_XVXZZ\_\_]^]a\_Q  
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+HWI-EAS443:3:72:297:599#0/1  
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a\_S¥aaa`F`\_a[QZaR^a^R^[YG\_¥\_QVY¥¥\_PR¥BBB  
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+HWI-EAS443:3:96:685:857#0/1  
aa`b\_aa`aaa`aaa\_a\_a`aa`]¥\_S\_\_`I`\_]`\_`  
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+HWI-EAS443:3:74:1418:1008#0/1  
a\_^aa`a`^aaaaa^^aaa`]Y`]¥a`Ua\_\_\_\_`¥a`\_^]  
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T^]\_a^X^ab]]^¥a\_]¥]^ZZY\_Z[^\_X[TZZ^\_R  
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a`bbbbbbabb]b]abbb[D^b¥`\_^b\_babb`b``abb`a  
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+HWI-EAS443:3:84:534:498#0/1  
J\_`ZVWq]`bab`\_\_U\_`\_\_Z^[¥¥`\_\_X¥\_Y^`\_V]``V  
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+HWI-EAS443:3:64:902:517#0/1  
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+HWI-EAS443:3:96:593:1015#0/1  
WL\_¥X¥\_b¥¥]^a`^ba\_TaSM]\_]\_aaY]Wa`¥¥X`Z^]  
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+HWI-EAS443:3:35:1201:1784#0/1  
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+HWI-EAS443:3:92:177:1893#0/1  
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+HWI-EAS443:3:62:1681:1009#0/1  
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aaaa¥Ya`][^\_`a[ZR¥\_\_\_S\_^a`Y`]]\_`Y`\_`¥^^  
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+HWI-EAS443:3:64:161:150#0/1  
abb`a`a]J`a`a[¥`Z]Za`^^`\_Z^U`V^`^`\_  
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+HWI-EAS443:3:68:163:1238#0/1  
\_`^Y\_]Qa`aaa^`a[\_^\_\_`Y^Z[\_^\_\_\_\_T]¥\_^Y¥¥S



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¥a`YV`aX^ZZa\_PS¥`baZ\_Wab]aT`b¥OFRQ¥a[^`  
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aa`bbbabab`aa\_aabaaaaa\_]a\_aaa\_\_\_\_\_]]Za\_a  
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U¥[\_[\_W\_XVU[a`]^`\_aabbaZ`^¥bbaY¥UU]R\_] ]  
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\_``¥bbbb`aZ^\_Z\_^aZ```aaa``ba`aba`bb^`a`  
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+HWI-EAS443:3:33:895:1510#0/1  
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+HWI-EAS443:3:23:1105:2035#0/1  
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+HWI-EAS443:3:46:330:2022#0/1  
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a^Z\_aaXE¥V`]a`aa`[[[\_]\_]\_^W¥]]YTZ]S^Z  
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+HWI-EAS443:3:55:258:1832#0/1  
a[b\_ababb\_ababbbGbbb`aa\_aaaSa\_a]`\_a^\_Z¥^  
@HWI-EAS443:3:25:1140:1696#0/1  
CCCTGGGTTTTGCTTAATGCATCTTGGTTCAACTCGCTCC  
+HWI-EAS443:3:25:1140:1696#0/1  
``ba`^`aab\_W¥aa\_QYX¥]aV¥X]^U\_\_XbaabU^F^]  
@HWI-EAS443:3:69:1340:584#0/1  
GCAGCGTTTTGCTCCAGAGGGTTTGTCTTGTTCATTCCT

+HWI-EAS443:3:69:1340:584#0/1  
aW#a[`R^`\_`\_]`¥`aV```Vaaa\_\_\_a\_a^a[U]^[[  
@HWI-EAS443:3:83:866:31#0/1  
CAATTATTGCCTCAGCAATTGACTGCTCGTCTCGCCCACT  
+HWI-EAS443:3:83:866:31#0/1  
a`Q]Z^Z`aZ\_WZ^a¥^VPZ]WS[ZWRRO^^YBBBBBBBB  
@HWI-EAS443:3:98:232:2019#0/1  
ATCAATGAACTGAGCAATCTTGCAAAAGGAGAGAAGGCAG  
+HWI-EAS443:3:98:232:2019#0/1  
^Xa[`bU\_W¥Y^H¥][bY[U`\_aab`TNT¥\_XSWYFMX\_\_  
@HWI-EAS443:3:52:1453:1432#0/1  
ACCAACTACTCGTCCCCTTGCCCTATTAGCACATTAGCTT  
+HWI-EAS443:3:52:1453:1432#0/1  
aa\_\_\_\_\_a^)`\_^^¥]¥]OU\_YXX[\_]¥]VGZG^]O]YH]V  
@HWI-EAS443:3:65:383:1411#0/1  
GACGCTGTCTGGCTGTCAGTAAGTATGCTAGAGTCCCGTT  
+HWI-EAS443:3:65:383:1411#0/1  
¥F[ab[\_`b``ab¥Z^\_RPY]ZZJX[]][V[NRVLa^XVFO  
@HWI-EAS443:3:81:1636:1404#0/1  
GTACTTTTTTGACAGTATGGATAGTAAATAGTAGCATTG  
+HWI-EAS443:3:81:1636:1404#0/1  
a[S^Z^\_\_V[`TSF]\_\_Yb\_U¥TUDN¥\_^VMKQ[QOZZB  
@HWI-EAS443:3:85:1645:1138#0/1  
CATCAGGAAGACAAGAGAAGAACCCAGCACTCAGAATGAA  
+HWI-EAS443:3:85:1645:1138#0/1  
`\_Z^a]ba[SMaaabbb[ZW¥bP`bIbSaa]]aabUbb\_T  
@HWI-EAS443:3:99:898:1727#0/1  
GAAGAACCCAGCACTCAGAATGAAGTGGATGATGGCAATG  
+HWI-EAS443:3:99:898:1727#0/1  
Y¥X^bSS¥ZDY`¥[[^G^\_aba\_]ZH\_¥X[a[I[``RQU]  
@HWI-EAS443:3:36:1767:774#0/1  
GGGGCGGGGAATCTTCGAGCTCTCGGAAGAAAAGGCAACG  
+HWI-EAS443:3:36:1767:774#0/1  
`^`¥X`¥¥PPFRXBBBBBBBBBBBBBBBBBBBBBBBBBBB  
@HWI-EAS443:3:48:912:259#0/1  
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+HWI-EAS443:3:48:912:259#0/1  
\_LY\_¥KQS]W^a¥`QYa[Q^¥^a\_`POQGZJLF¥Q[MP[W  
@HWI-EAS443:3:8:375:2030#0/1  
ATTTCTAGCATGGCGGAGGCCATGGTGTCTAGGGCTCGGA  
+HWI-EAS443:3:8:375:2030#0/1  
]ZWV]a^X¥a^\_TGSW`Xa\_BBBBBBBBBBBBBBBBBBBBBB  
@HWI-EAS443:3:22:1580:33#0/1  
GAAAACAAGACTTGGGTAAACCAGACATATGTAAACATCA  
+HWI-EAS443:3:22:1580:33#0/1  
aYY¥`Z]WLMR]P][¥SY^\_[Z[ZYY[PV^`Z]]XOV^WX  
@HWI-EAS443:3:46:262:180#0/1  
GAAAACAACACTTGGGTAAACCAGACATACGTAAACATCA  
+HWI-EAS443:3:46:262:180#0/1  
aa`aaaaa\_a\_```\_\_U`a\_]a\_^\_^\_a\_]`]]^`\_]

@HWI-EAS443:3:22:176:1869#0/1  
TATGAAAACAACACTTGGGTAAACCAGACATATGTTAACA  
+HWI-EAS443:3:22:176:1869#0/1  
\_¥`a`\_V`SSa`a]\_a`a¥\_¥\_b`\_^\_bb`b^^]`b\_`]  
@HWI-EAS443:3:2:753:202#0/1  
TATGAAAACAACACTTGGGTAAACCAGACATATGTTAACA  
+HWI-EAS443:3:2:753:202#0/1  
aaabaaaa\_a`[^a\_`a^]``a^Y``\_]\_^\_^\_]\_\_^[^  
@HWI-EAS443:3:33:26:528#0/1  
TATGAAAACAACACTTGGGTAAACCAGACATATGTTAACA  
+HWI-EAS443:3:33:26:528#0/1  
Z¥]`\_Z`^^[Y\_`aaaaV\_`^[^a¥]\_V[P[aaa¥aaZa^  
@HWI-EAS443:3:44:14:1116#0/1  
TATGAAAACAACACTTGGGTAAACCAGACATATGTTAACA  
+HWI-EAS443:3:44:14:1116#0/1  
aabba\_S¥\_b`aS¥¥]RY[Wa]ZR\_Z]`\_]\_[]a¥¥\_`^^`  
@HWI-EAS443:3:4:203:436#0/1  
TATGAAAACAACACTTGGGTAAACCAGACATATGTTAACA  
+HWI-EAS443:3:4:203:436#0/1  
¥b¥[[\_`Ybab^X\_TQa[^a¥`UV``aa^^aaXSYa\_a  
@HWI-EAS443:3:66:1051:752#0/1  
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+HWI-EAS443:3:66:1051:752#0/1  
aaabaa``aaaaaaaa`W`aa`aaa\_a``U`a\_`a`aa  
@HWI-EAS443:3:68:1364:1647#0/1  
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+HWI-EAS443:3:68:1364:1647#0/1  
\_a\_abbaaa\_baaZ\_ab`aW`\_baa`aa`aaaa`a`aa\_a  
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AANCAACACTTGGGTAAACCAGACATATGTTAACATCAGC  
+HWI-EAS443:3:68:639:1802#0/1  
a]DT`a^W[RLPZSTV`\_aR¥Z[X^Z\_WP¥\_Y[LXXP`S[  
@HWI-EAS443:3:90:56:1862#0/1  
TATGAAAACAACACTTGGGTAAACCAGACATATGTTAACA  
+HWI-EAS443:3:90:56:1862#0/1  
U\_RZ\_YRUa\_WZ^``¥\_]Paaa^¥Z^aaaTa[QYX`\_aa  
@HWI-EAS443:3:92:964:109#0/1  
TATGAAAACAACACTTGGGTAAACCAGACATATGTTAACA  
+HWI-EAS443:3:92:964:109#0/1  
a¥\_`\_\_XXX]`[RITaa^WLZ¥VTJ`WSOaWTT\_[XTM[^  
@HWI-EAS443:3:93:1541:303#0/1  
TATGAAAACAACACTTGGGTAAACCAGACATATGTTAACA  
+HWI-EAS443:3:93:1541:303#0/1  
[Y\_\_^``]b``]\_`aaa`aIaaa\_U¥a\_\_Y`````\_\_\_\_]V`  
@HWI-EAS443:3:99:1778:1190#0/1  
TATGAAAACAACACTTGGGTAAACCAGACATATGTTAACA  
+HWI-EAS443:3:99:1778:1190#0/1  
U¥¥^bb¥`ab\_Z]PW\_J^¥Vbbb``baa`]a]`baaZaV\_  
@HWI-EAS443:3:13:133:661#0/1  
ATGAAAACAACACTTGGGTAAACCAGACATATGTTAACAT

+HWI-EAS443:3:13:133:661#0/1  
a^a^aaa]W[^ [\_[^[^Z\_^Z\_\_`\_]^^¥`^`X[[^]]]  
@HWI-EAS443:3:18:733:1313#0/1  
ATGAAAACAACACTTGGGTAAACCAGACATATGTTAACAT  
+HWI-EAS443:3:18:733:1313#0/1  
aa\_a^aaa¥`^`]^[]a[U`¥a` ``^`\_\_a`a^]¥^^\_`^  
@HWI-EAS443:3:19:1591:1828#0/1  
ATGAAAACAACACTTGGGTAAACCAGACATATGTTAACAT  
+HWI-EAS443:3:19:1591:1828#0/1  
aabaaab\_a` `aVaaa\_[]aaa^Va` `^` `aa\_` `^^` \_`  
@HWI-EAS443:3:23:498:1201#0/1  
ATGAAAACAACACTTGGGTAAACCAGACATATGTTAACAT  
+HWI-EAS443:3:23:498:1201#0/1  
a` `aabaa`a^^\_` `ZOM[aa` ` \_` `^`a` `\_\_` ` \_`a[\_\_\_  
@HWI-EAS443:3:28:85:326#0/1  
ATGAAAACAACACTTGGGTAAACCAGACATATGTTAACAT  
+HWI-EAS443:3:28:85:326#0/1  
aaaaaabaaaa`aa]Y^`Xaa`aa` ``aaaaaa\_`^V¥`a\_  
@HWI-EAS443:3:32:655:213#0/1  
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+HWI-EAS443:3:32:655:213#0/1  
aaa[b` \_`abaaa^aa\_aZWaaaaa` \_\_]`^a\_a]` `X¥]^  
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+HWI-EAS443:3:62:669:205#0/1  
a` `T` [\_`\_aXX`0\_¥a`ZGa\_\_ST\_RP` `^[^Z\_X]^XY\_U  
@HWI-EAS443:3:69:1188:870#0/1  
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+HWI-EAS443:3:69:1188:870#0/1  
ab`baabaaaaa`aaa^Waaa`\_a` `aaa\_\_a\_\_a^\_a\_  
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+HWI-EAS443:3:75:1033:752#0/1  
aY\_¥abb`a¥NS¥a]a` `WZ\_[RIa\_]W` [X`aa\_]aS`a  
@HWI-EAS443:3:80:996:1089#0/1  
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+HWI-EAS443:3:80:996:1089#0/1  
aa¥]babaaaa`a`^aPaP\_` ``]]\_`aa`^a\_` ``]^]^  
@HWI-EAS443:3:81:770:1483#0/1  
ATGAAAACAACACTTGGGTAAACCAGACATATGTTAACAT  
+HWI-EAS443:3:81:770:1483#0/1  
T]¥` \_`\_US`^^` `¥\_NGOW]a^aa`\_aaaa`¥HT^`\_[]a^  
@HWI-EAS443:3:82:478:289#0/1  
ATGAAAACAACACTTGGGTAAACCAGACATATGTTAACAT  
+HWI-EAS443:3:82:478:289#0/1  
\_` `abab^X`bab^ab\_a\_aaa^ab`aaa\_aaa\_` [\_Q\_`  
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ATGAAAACAACACTTGGGTAAACCAGACATATGTTAACAT  
+HWI-EAS443:3:84:504:905#0/1  
aab\_]a¥b\_\_]aaaaa\_N^]` `S]aab\_a\_aZ[a¥aa\_



@HWI-EAS443:3:8:1751:41#0/1  
ATGAAAACAACACTTGGGTAAACCAGACATATGTTAACAT  
+HWI-EAS443:3:8:1751:41#0/1  
¥a\_VbbaabYP^SXW\_\_\_0Z`LP]^N`[]a¥SX\_SWB  
@HWI-EAS443:3:90:311:1343#0/1  
ATGAAAACAACACTTGGGTAAACCAGACATATGTTAACAT  
+HWI-EAS443:3:90:311:1343#0/1  
a\_XVYR\_\_UU`¥Qa]UTU0]\_^]]`\_aaaa]WQ^^a`[]  
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ATGAAAACAACACTTGGGTAAACCAGACATATGTTAACAT  
+HWI-EAS443:3:91:187:49#0/1  
aaW¥V]abba^TY\_T^^X]S]]Y^]ONQ[TU^XRTXVYQ  
@HWI-EAS443:3:93:105:1573#0/1  
ATGAAAACAACACTTGGGTAAACCAGACATATGTTAACAT  
+HWI-EAS443:3:93:105:1573#0/1  
a`aaaaaaaa\_\_\_]^W\_VaV`a`^`\_\_^^`]]`\_X`U  
@HWI-EAS443:3:14:352:1719#0/1  
TGAAAACAACACTTGGGTAAACCAGACATATGTTAACATC  
+HWI-EAS443:3:14:352:1719#0/1  
abbbbabbbbaaaa\_^ababa`^baaaaa^\_baab\_\_\_  
@HWI-EAS443:3:39:998:124#0/1  
TGAAAACAACACTTGGGTAAACCAGACATATGTTAACATC  
+HWI-EAS443:3:39:998:124#0/1  
ab`]aaaaa`\_\_\_`aZ\_\_\_\_\_`^`^Z^Y]Y]]^\_]YX  
@HWI-EAS443:3:66:401:901#0/1  
TGAAAACAACACTTGGGTAAACCAGACATATGTTAACATC  
+HWI-EAS443:3:66:401:901#0/1  
a[``ab\_\_¥aaaa\_[R^\_aa]a`\_aa]^a``\_^TY``¥  
@HWI-EAS443:3:100:1555:411#0/1  
ACAACACTTGGGTAAACCAGACATATGTTAACATCAGCAA  
+HWI-EAS443:3:100:1555:411#0/1  
¥K`aaa`aaYVXa`^]baa[aa`Z`^\_aa0`[Y\_\_ZBB  
@HWI-EAS443:3:16:1622:1874#0/1  
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+HWI-EAS443:3:16:1622:1874#0/1  
`b`^baaa[b``]\_S\_aY¥G\_ab^a]a`X`aYZ¥^W\_\_\_  
@HWI-EAS443:3:17:1194:1205#0/1  
AAACAACACTTGGGTAAACCAGACATATGTTAACATCAGC  
+HWI-EAS443:3:17:1194:1205#0/1  
[^`aaaa`a`X`aG\_\_]P]\_\_^]\_\_`]X`^P^¥¥^\_S  
@HWI-EAS443:3:23:1453:904#0/1  
GAAAACAACACTTGGGTAAACCAGACATATGTTAACATCA  
+HWI-EAS443:3:23:1453:904#0/1  
aababab`a`aaaa^`aaW\_a^`\_`aaba`a`\_Yaa[a  
@HWI-EAS443:3:24:1583:1129#0/1  
GAAAACAACACTTGGGTAAACCAGACATATGTTAACATCA  
+HWI-EAS443:3:24:1583:1129#0/1  
`babbbabab`bba\_a\_bbb`]aabbbbbbabaabbbbaa  
@HWI-EAS443:3:24:81:292#0/1  
GCTGATGTTAACATATGTCTGGTTTACCCAAGTGTGTTT

+HWI-EAS443:3:24:81:292#0/1  
aa`a`a\_a]aaaa]``]\_\_adWa\_Z\_\_^Z^`U`[^\_W[^  
@HWI-EAS443:3:26:661:936#0/1  
AAAACAACACTTGGGTAAACCAGACATATGTTAACATCAG  
+HWI-EAS443:3:26:661:936#0/1  
aa`baba`aaaa`]b`a`a`aaaaa`\_a\_```\_a`  
@HWI-EAS443:3:28:1048:1405#0/1  
AACAACACTTGGGTAAACCAGACATATGTTAACATCAGCA  
+HWI-EAS443:3:28:1048:1405#0/1  
\_`b^a^aaaa^UUbaaaaaaaa`\_]^S`aa`a``aa¥a  
@HWI-EAS443:3:28:1209:1102#0/1  
GAAAACAACACTTGGGTAAACCAGACATATGTTAACATCA  
+HWI-EAS443:3:28:1209:1102#0/1  
`babbb\_babbabba`bbba\_baaaaabbaabbaaaaa  
@HWI-EAS443:3:30:323:967#0/1  
GCTGATGTTAACATATGTCTGGTTTACCCAAGTGTGTTT  
+HWI-EAS443:3:30:323:967#0/1  
aa`\_TY^]`Z\_]Va^\_¥^`¥¥XR]W\_aa\_S[TMZU^\_V^^  
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AACAACACTTGGGTAAACCAGACATATGTTAACATCAGCA  
+HWI-EAS443:3:36:192:1868#0/1  
aaaTGV]`^^WU0`a[aa^^\_a\_]¥XZI¥W\_Wa[XS[  
@HWI-EAS443:3:36:412:291#0/1  
TGCTGATGTTAACATATGTCTGGTTTACCCAAGTGTGTT  
+HWI-EAS443:3:36:412:291#0/1  
YU¥`a[Z[`b\_\_[R^`V[[]]^a`Y^`X`]H^]QU00W[¥  
@HWI-EAS443:3:37:614:1488#0/1  
AAACAACACTTGGGTAAACCAGACATATGTTAACATCAGC  
+HWI-EAS443:3:37:614:1488#0/1  
abbaaaaa`\_\_\_\_\_]U\_aaaaa`a\_\_`]YVT^Z`a\_]\_]¥  
@HWI-EAS443:3:38:757:1217#0/1  
TGCTGATGTTAACATATGTCTGGTTTACCCAAGTGTGTT  
+HWI-EAS443:3:38:757:1217#0/1  
\_baa^JaaVaQZ`¥¥babQab`aQb`aaa`^`ZV\_Y\_`^\_  
@HWI-EAS443:3:40:1099:212#0/1  
GCTGATGTTAACATATGTCTGGTTTACCCAAGTGTGTTT  
+HWI-EAS443:3:40:1099:212#0/1  
a```^^\_]aZ^\_^]\_]`[^^\_\_X]^¥Y^VQ¥X¥V¥¥YY^  
@HWI-EAS443:3:45:1046:1060#0/1  
GAAAACAACACTTGGGTAAACCAGACATATGTTAACATCA  
+HWI-EAS443:3:45:1046:1060#0/1  
aab`[^a^ab`a^[]`a]`^`aaa\_a`aaa^^``\_\_`aa  
@HWI-EAS443:3:45:509:1905#0/1  
AAAACAACACTTGGGTAAACCAGACATATGTTAACATCAG  
+HWI-EAS443:3:45:509:1905#0/1  
aYVa\_aaa]ZYYZR¥^\_]aa]Z`¥0`aaa]^X``^a^MZY  
@HWI-EAS443:3:48:741:740#0/1  
AACAACACTTGGGTAAACCAGACATATGTTAACATCAGC  
+HWI-EAS443:3:48:741:740#0/1  
aaaaaaaaaab]aa[aa`\_a^\_a``\_¥\_b^¥a\_]aQab[

@HWI-EAS443:3:49:986:932#0/1  
GCTGATGTTAACATATGTCTGGTTTACCCAAGTGTGTTT  
+HWI-EAS443:3:49:986:932#0/1  
aa`aaa`a¥`¥\_\_T[`VY[aaXW^\_]WUX]`V^\_V^  
@HWI-EAS443:3:50:1196:1006#0/1  
AACAACTTGGGTAAACCAGACATATGTTAACATCAGCA  
+HWI-EAS443:3:50:1196:1006#0/1  
a`bbbb`bbbbba`bba¥bbaabaab\_ba]a`baaaaa  
@HWI-EAS443:3:51:1280:1126#0/1  
ACAACACTTGGGTAAACCAGACATATGTTAACATCAGCAA  
+HWI-EAS443:3:51:1280:1126#0/1  
aXWaSa[QY]P]XaTaaaZIY]\_\_T¥aT\_`\_^aaZ`RGa\_  
@HWI-EAS443:3:53:347:1961#0/1  
GCTGATGTTAACATATGTCTGGTTTACCCAAGTGTGTTT  
+HWI-EAS443:3:53:347:1961#0/1  
X\_¥]¥¥\_H^\_\_Xbb^^^^¥\_`b`^\_\_a\_XVG^Q`¥aab  
@HWI-EAS443:3:5:345:712#0/1  
GCTGATGTTAACATATGTCTGGTTTACCCAAGTGTGTTT  
+HWI-EAS443:3:5:345:712#0/1  
abbb`baaba`baabaaba\_aa`]a]^`aNaa`aa  
@HWI-EAS443:3:61:649:336#0/1  
TGCTGATGTTAACATATGTCTGGTTTACCCAAGTGTGTT  
+HWI-EAS443:3:61:649:336#0/1  
aa`aa\_\_aa`¥^`\_`\_`aY^V¥¥P[\_`\_`[WVYYQ^Z]^[]  
@HWI-EAS443:3:63:1367:358#0/1  
GCTGATGTTAACATATGTCTGGTTTACCCAAGTGTGTTT  
+HWI-EAS443:3:63:1367:358#0/1  
T\_\_b`\_]¥\_WT`\_`\_`b\_Y¥`\_`]V\_\_^[]\_aY`baab\_ab  
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+HWI-EAS443:3:66:1181:248#0/1  
ab`bbba`aaa]aaSab`a`aaa`\_\_aa\_aa\_]`[\_a^  
@HWI-EAS443:3:66:275:580#0/1  
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+HWI-EAS443:3:66:275:580#0/1  
]]H^`^`\_\_aa`\_`\_`]YWT^aa`a`¥`aWW]a¥\_¥SQZ^`\_`  
@HWI-EAS443:3:67:211:1603#0/1  
ACAACACTTGGGTAAACCAGACATATGTTAACATCAGCAA  
+HWI-EAS443:3:67:211:1603#0/1  
abbV`b`^^^`^Zbaa\_a\_\_`aL^`\_]`a\_[-^`\_\_Yaa  
@HWI-EAS443:3:73:397:1796#0/1  
CTGATGTTAACATATGTCTGGTTTACCCAAGTGTGTTT  
+HWI-EAS443:3:73:397:1796#0/1  
aaX]\_¥PV¥^`\_`\_`aa¥a`\_`\_`^`aa`a^\_]Za¥^¥V\_\_\_\_  
@HWI-EAS443:3:7:111:1403#0/1  
AAACAACACTTGGGTAAACCAGACATATGTTAACATCAGC  
+HWI-EAS443:3:7:111:1403#0/1  
a]aaa^a`Xa^aa]Z\_\_\_\_a`\_`^`\_\_a\_¥]`a^¥^`\_`Y\_  
@HWI-EAS443:3:81:725:761#0/1  
TGCTGATGTTAACATATGTCTGGTTTACCCAAGTGTGTT

+HWI-EAS443:3:81:725:761#0/1  
a`ab^V\_\_aaaa`aa^^b\_aa`a^aaa\_aa\_\_bXa]aa\_\_  
@HWI-EAS443:3:82:1001:1325#0/1  
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+HWI-EAS443:3:82:1001:1325#0/1  
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@HWI-EAS443:3:83:303:1177#0/1  
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+HWI-EAS443:3:83:303:1177#0/1  
a`\_\_V\_\_a`\_] [Y¥Za]`\_a¥`\_^`\_\_Y^^¥^`\_Z^  
@HWI-EAS443:3:88:53:1455#0/1  
ACAACACTTGGGTAAACCAGACATATGTTAACATCAGCAA  
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ababaaaa`a`V`]aaaa\_\_a¥a`\_]`\_`a\_^]]Z\_\_\_\_  
@HWI-EAS443:3:93:1374:130#0/1  
GAAAACAACACTTGGGTAAACCAGACATATGTTAACATCA  
+HWI-EAS443:3:93:1374:130#0/1  
aX\_aXU¥^`\_]\_OV`^S^VZXRZ[SZ¥^S\_S\_^ZXZ]WZ  
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GAAAACAACACTTGGGTAAACCAGACATATGTTAACATCA  
+HWI-EAS443:3:93:765:786#0/1  
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@HWI-EAS443:3:94:1528:784#0/1  
GAAAACAACACTTGGGTAAACCAGACATATGTTAACATCA  
+HWI-EAS443:3:94:1528:784#0/1  
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CACAGCCCCATTGTCTGGGCCAGAAATCCAATTGTTAGC  
+HWI-EAS443:3:90:293:979#0/1  
\_Z`ba`bb`bbbb\_aa^b\_Z`a`a`aaa`a`a\_aa]a^`\_  
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GCTCTGGATGCTGAACAAAACCTCCCGCTATATCCTGACCA  
+HWI-EAS443:3:72:1045:1116#0/1  
^aab`aaaa`\_aa\_bb`aa`\_a\_aZa`\_ba\_^\_\_`a`Z  
@HWI-EAS443:3:24:443:166#0/1  
CTTCCCTCATGGACTCAGGCACTCCTTCCTTAGAAGGACC  
+HWI-EAS443:3:24:443:166#0/1  
]OZ\_\_a`aU]`\_]Z`\_ROYR`¥VYBBBBBBBBBBBBBBB  
@HWI-EAS443:3:69:822:713#0/1  
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+HWI-EAS443:3:69:822:713#0/1  
abb]aUa]]]TM]\_]X`XUS¥¥UOSZJT\_OIDOPW¥MFVX  
@HWI-EAS443:3:40:1184:803#0/1  
CAATGGTGAACAGATCTTCATGATCTCAGAGAACTTTTC  
+HWI-EAS443:3:40:1184:803#0/1  
¥```bbabbbb[a`a`a`ba^\_] [Y```^^`ZYaa`a`¥  
@HWI-EAS443:3:27:738:1109#0/1  
AGGGCGCCTTGCTAAATGACAAACATTCGAATGGAACCAT  
+HWI-EAS443:3:27:738:1109#0/1  
\_a`\_X`ba^Y^aaa]a`R][XU¥W[^]aa]aaa`^Ya\_

@HWI-EAS443:3:55:1126:1320#0/1  
GGGGGCCTTGCTAAATGACAAACATTCCAATGGAACCATT  
+HWI-EAS443:3:55:1126:1320#0/1  
a`\_aa\_\_`\_\_`a`\_a^a\_``\_^^`a\_¥]\_``]\_\_^Z\_]a  
@HWI-EAS443:3:73:344:925#0/1  
GCATCCTACTCTGTTCTGGTGGAGCAGCAGCAAGGGGAAA  
+HWI-EAS443:3:73:344:925#0/1  
`Z[Z`a¥\_\_\_\_]W[YZ¥[^\_W]V¥¥]\_¥Q\_^WURUT¥WWW[  
@HWI-EAS443:3:94:425:213#0/1  
CCCTCTCCCTTTGCTGCTGCTCCACCAGAACAGAGTAGG  
+HWI-EAS443:3:94:425:213#0/1  
a`a`^bbaa\_aaaaaa\_aa^\_V[\_W\_``^^Z\_\_¥^Q\_^\_  
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GCCGGTTGATTTCTGTTTAGTGTCCAGTCATAAGTCTGGT  
+HWI-EAS443:3:3:533:667#0/1  
W`\_U\_] [ `P^abZ]VRX^VGVa[SLOH[\_[\_X`X0^]\_BB  
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TGCCGGTTGATTTCTGTTAATGTCCAGTCATAAGTCTGG  
+HWI-EAS443:3:58:1143:740#0/1  
a\_aabb`b\_V^aaaaaaaaaaaaT¥`\_a^aaa]]U^`a¥  
@HWI-EAS443:3:75:808:660#0/1  
TGCATTGCAATGGAAAGAAATACTGGATCTGGTATTATC  
+HWI-EAS443:3:75:808:660#0/1  
¥baTa¥ZaaUS` `abb\_Ybb`aY\_a[ba\_aYS0]\_\_aaa  
@HWI-EAS443:3:86:771:286#0/1  
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+HWI-EAS443:3:86:771:286#0/1  
aaba` ` ` [Y]]a^^aPZ\_W\_b[ba`^¥\_aa`a\_aaaa`]  
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+HWI-EAS443:3:73:859:680#0/1  
aa`baabbabbbbaababbaaaababb]aa\_aa\_a\_a\_`\_  
@HWI-EAS443:3:37:622:228#0/1  
GCAAATAAGAGGGTAGCCCCATTGCATTTGGGCAATTG  
+HWI-EAS443:3:37:622:228#0/1  
a]Q[X]^Y[XDTVURUMT^Y\_Y\_WVBBBBBBBBBBBBBBBB  
@HWI-EAS443:3:67:1522:79#0/1  
AATGTAGGACCATGAGCTTGCTGTGGAGAGTAATTCACAC  
+HWI-EAS443:3:67:1522:79#0/1  
a]aaZaa` `YW\_\_\_\_]a[aX\_]\_\_TZZ[^`U]]^]UUX^Y  
@HWI-EAS443:3:37:958:730#0/1  
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+HWI-EAS443:3:37:958:730#0/1  
abbbaYab^R\_\_[baaa` ` `aba\_^^` `G[aa\_a` `]a]  
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+HWI-EAS443:3:76:1738:516#0/1  
`\_aVG[b`aaR`\_a]\_Y`\_¥a\_Ya]\_X`0^RR\_[WGY¥G^  
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+HWI-EAS443:3:38:259:281#0/1  
X¥` [YU¥TZ^bVbZ¥QQ\_a]aUDOY¥N\_b]YNGYFGSbX  
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GGCTGGTTAAAAAAGGAAATTCATACCCAAAGCTCAGCAA  
+HWI-EAS443:3:91:1709:1060#0/1  
a` [WDWUXX\_[VQ[]aQ\_\_\_\_[TXW\_TQ0]\_[^RT^Z]TS\_  
@HWI-EAS443:3:81:1208:308#0/1  
CAGGGAGACTACGAGTACCAATGAACTGGCGACAGGTGAA  
+HWI-EAS443:3:81:1208:308#0/1  
V` ¥XQ\_¥¥UbaZH]b` \_` UX[\_a^^VaaaabV[a]FQa\_R  
@HWI-EAS443:3:65:1767:1938#0/1  
GATTGCCCCAGGGAGACTGCCAGTACCAATGAACTGGCG  
+HWI-EAS443:3:65:1767:1938#0/1  
a^aaaba^R\_[DZ[Y[`a``¥ZaVP\_XQ]^a[\_`WV^Y]B  
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TGCCCCAGGGAGACTGCCAGTACCAATGAACTGGCGACA  
+HWI-EAS443:3:91:439:1047#0/1  
abbabbb\_aba`aba\_a]^¥a¥aaZ]\_aa\_\_\_\_^`Ya\_¥¥  
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+HWI-EAS443:3:10:1229:1712#0/1  
a^a`aba`b\_b\_^\_^\_]aa`^`Wa^bW[\_a]\_^\_S`ZYa  
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abZH¥ba[aaa^aXa`0`^[Sa¥a¥]aK¥a]a^`ba]aUa  
@HWI-EAS443:3:89:1078:968#0/1  
CTCGGCCTCAATCATGCTCTCAATCTGCTGAATAGACTGA  
+HWI-EAS443:3:89:1078:968#0/1  
Q^\_\_[S\_ba^aa¥`bbaaZ\_abb\_bbb\_bb]ababbbbb`  
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abb)``a`^^¥Sabaabaaababaa]aa`\_aa`UH¥\_¥`  
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+HWI-EAS443:3:33:900:1972#0/1  
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+HWI-EAS443:3:87:1070:1323#0/1  
ababa`aaaaabba`a`a`\_a\_\_`\_`a`\_VG^]]a`Y]¥  
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+HWI-EAS443:3:93:1735:640#0/1  
WUb`¥PH¥b` `¥ZGSSN`¥]a`TT`\_ZTU\_YW` [^DMUBB  
@HWI-EAS443:3:4:475:1019#0/1  
ATTTGGGATCCGAACGGATGGAATGGGACAGACAATAACT  
+HWI-EAS443:3:4:475:1019#0/1  
a\_\_b]P\_VYX` ]Z\_aa¥bb]MHbbba¥\_YUa^^`^` `RY

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+HWI-EAS443:3:22:115:1872#0/1  
ab]TUT]^Z\_¥VHTXZ¥SMZ^W¥][`a`ZOFV]^X]^¥SV  
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+HWI-EAS443:3:8:155:375#0/1  
\_ZOZQXUT¥aaYV¥VQ\_NZ^a¥\_aP¥`aY]VZZFYX`W]N  
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+HWI-EAS443:3:82:258:360#0/1  
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GAACAATTGAAGAGCCATCTGGGCCGTTGCAGGCCCAAGG  
+HWI-EAS443:3:72:751:262#0/1  
abaaa```\_bb¥¥¥¥a^]\_\_aaa¥a^\_aZTa`N\_V^[^^  
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+HWI-EAS443:3:76:1282:743#0/1  
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+HWI-EAS443:3:18:156:648#0/1  
\_]Y\_VX]YaZ^]W]H^`\_ZFGSaVNYO[FFN\_NXOMY^Q  
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+HWI-EAS443:3:7:764:1612#0/1  
abaaa`a`\_aa`b`\_aa`Qaa`\_^Ya\_W\_aa\_[\_\_\_\_V  
@HWI-EAS443:3:42:1488:131#0/1  
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+HWI-EAS443:3:42:1488:131#0/1  
aaaaaaaa\_a`\_a^a```^^^\_]]Y\_\_Y`YYY]Y]^S  
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GCCAGAAAGGTAGCGGAAGTAGGTACAGATGCAATTGTC  
+HWI-EAS443:3:62:439:2001#0/1  
UK\_]U[\_a`^`\_SUZaY]aYLZWOZ¥NYS]^W^]VTPLDW  
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+HWI-EAS443:3:68:681:1190#0/1  
a¥OZ]\_¥XRX¥`XX`aa`\_]]W¥][NNaaaYG^YOUUWMQ  
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+HWI-EAS443:3:21:1522:75#0/1  
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+HWI-EAS443:3:10:547:372#0/1  
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+HWI-EAS443:3:33:337:1451#0/1  
a`abbbba`^a`^b`\_bb]X\_^`U\_X\_aa^Ja\_S¥Y¥^  
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+HWI-EAS443:3:39:1073:1920#0/1  
a`^`\_S¥` [PaaQVZaa\_a\_] [^`\_`Y]ZSMNKRY^PPP  
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+HWI-EAS443:3:81:1344:993#0/1  
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+HWI-EAS443:3:66:339:1834#0/1  
abZ`ba\_b\_a`^¥^`aaa]\_\_ba^F]\_[a\_[aZGQ\_XS`  
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+HWI-EAS443:3:51:883:1191#0/1  
aa``bbab^bab`Uaaabbbbaaaaa^aa````a][aa\_a\_  
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+HWI-EAS443:3:1:1455:1181#0/1  
aab\_bbabbbbabbbabba]abbaaab\_a\_Ya¥`\_`VaB  
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+HWI-EAS443:3:46:1006:926#0/1  
```b\_\_\_^X\_\_b]X`\_\_aa^ZY)`[Z\_S`]WR\_[Q¥X¥Y\_  
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@HWI-EAS443:3:33:129:803#0/1
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+HWI-EAS443:3:33:129:803#0/1
aaab`aaaaaa`abaXaaaaaaaSaaa]_`¥U__`¥S¥Y
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+HWI-EAS443:3:91:1696:1935#0/1
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@HWI-EAS443:3:36:1438:1647#0/1
ATGACTTTCAGCTGATCCCAATGGTAAGCAAATGTAGACC
+HWI-EAS443:3:36:1438:1647#0/1
a_``abab_`]`aaaa`_a`¥`V`^`^`¥^ZW`_]_S`

@HWI-EAS443:3:86:637:439#0/1
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+HWI-EAS443:3:86:637:439#0/1
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@HWI-EAS443:3:78:566:153#0/1
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+HWI-EAS443:3:78:566:153#0/1
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+HWI-EAS443:3:11:1673:651#0/1
aa_WOJM¥]X_QY`[SKVWRTWVO[Y[^TKR]`ZLEU_^B
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+HWI-EAS443:3:42:1753:76#0/1
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+HWI-EAS443:3:69:1246:1359#0/1
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+HWI-EAS443:3:18:1539:163#0/1
a¥a]]`a_`__R]]`_]`^¥^^[_Y]`_Y]_[^_XZ[^Y
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+HWI-EAS443:3:47:669:1731#0/1
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@HWI-EAS443:3:10:75:1807#0/1
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+HWI-EAS443:3:10:75:1807#0/1
aSHUU[_^VX_YPSZ¥[^[^W[HVP[NFLPH]KKO[[Z]Z
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+HWI-EAS443:3:18:314:978#0/1
^aRaX]bbbbbabbbbaabbbb`bbbaaaba_aaaba`
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¥`a]_aaabbabaabb`abaaabbaababaa^`bbaabb
@HWI-EAS443:3:35:885:458#0/1
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+HWI-EAS443:3:35:885:458#0/1
aab^`]]^aaa``]`¥]`T`a`X[`Z`[XW____¥[`^^`a
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+HWI-EAS443:3:38:1231:1304#0/1
T_0_US_`¥`^Z¥`a^_abaZ`^_¥^][^KY_aaa[]`aY
@HWI-EAS443:3:38:316:390#0/1
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+HWI-EAS443:3:38:316:390#0/1
a¥b__`a`aa`a__`_[Q]^a`a_^`_]a¥[X¥P
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GGTGTGTTTTCTCATGCTTCTGAAATCCTAATGTAAATA
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ab]b^abaab`a_aaa_aa`aa__`a_¥aa¥aa`a_]a`
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+HWI-EAS443:3:58:1690:82#0/1
ab_aabb_N_a`ba_aa`aa___`[_aa`ab_a_^`a]¥^
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TGTTTTTCTCATGCTTCTGAAATCCTAATGTAAATACA
+HWI-EAS443:3:59:960:1557#0/1
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+HWI-EAS443:3:64:1077:1636#0/1
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+HWI-EAS443:3:66:1267:1398#0/1
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+HWI-EAS443:3:67:1576:1783#0/1
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@HWI-EAS443:3:67:730:495#0/1
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+HWI-EAS443:3:67:730:495#0/1
a¥`¥`aaaaaa`aa`aaaaaa`aaaa_aaaaa`a_a`a_
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+HWI-EAS443:3:89:1071:874#0/1
a^Ya[_aaaaW]a)`aaa_¥a¥ZW^`^`]X`a__^`a`
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+HWI-EAS443:3:94:1103:741#0/1
aa__a^_aaa^a]aa_ba¥^Ya^_ba_aa`a_a_a`^`
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+HWI-EAS443:3:95:1772:1077#0/1
]F_¥¥aa`aaa`b_aaa^aa_aWa^_aaa^¥`aaa`_`W
@HWI-EAS443:3:99:100:1510#0/1
ACTCACTAAGACCACTGTGGACCATATTGCCATCATCCAC
+HWI-EAS443:3:99:100:1510#0/1
UWY^¥TabV[[[YV^b¥HH_bb]Y^ZT^]aaTUU`W[U_N

@HWI-EAS443:3:5:1575:1905#0/1
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+HWI-EAS443:3:5:1575:1905#0/1
`ZV[JLPZTWT^a_aWbSbaaU^__^Y_a_P^`¥BBBBBB
@HWI-EAS443:3:91:1696:887#0/1
GAGCGAAAGCAGGCAAACCATTTGAATGGATGTCAATACG
+HWI-EAS443:3:91:1696:887#0/1
a¥IWZ^[^G^_XT_^`QYZKZ_ZJXVPTRTDMMWYFQS
@HWI-EAS443:3:95:1398:1010#0/1
GCGAGCGAAAGCAGGCAAACCATTTGAATGGATGTCAATC
+HWI-EAS443:3:95:1398:1010#0/1
Z_aT`bbb_¥aa^GWYVb_¥`abbb`]ZW``_]`YZ¥]WF
@HWI-EAS443:3:93:159:1511#0/1
CGGAGCGAAAGCAGGCAAACCATTTGAATGGATGTCAATC
+HWI-EAS443:3:93:159:1511#0/1
ab_ZX]aY]a_a¥aaaaZ[Za_`aa`____`__`]``]¥
@HWI-EAS443:3:23:976:519#0/1
GAGCGAAAGCAGGCAAACCATTTGAATGGATGTCAATCCG
+HWI-EAS443:3:23:976:519#0/1
]]_Q^`ba]^aaa`]a`_aaaaa_a]aXYa`]_____W[a
@HWI-EAS443:3:45:1503:168#0/1
GTTTGTTCCTTCCTTCTTTGGCCCCACATTTGCTT
+HWI-EAS443:3:45:1503:168#0/1
aY]X`_`aSQZNR[_VWV[UVUV]^RWWVRV]]XYYYWW
@HWI-EAS443:3:6:451:1216#0/1
TCTGATGTGTACTTTTTGATTATGGCCATATTGTCCACAC
+HWI-EAS443:3:6:451:1216#0/1
aaX¥U]aZ¥aaZ`Yba^^[_aaRT^]_TV¥GP[[_BBBB
@HWI-EAS443:3:24:415:16#0/1
ATTACACTGGAGTTCGCTTTCAGTACTATGTTCTTTTCCA
+HWI-EAS443:3:24:415:16#0/1
^^^Y¥`b_GU_aaa^aYW`aaa]aaa]ab[^]Za`^[]¥
@HWI-EAS443:3:12:1789:393#0/1
ACCGGCTTGAAATTCTTGCTGTATCTTGATGTCCCCACAA
+HWI-EAS443:3:12:1789:393#0/1
aS^^^a`ON[Y^_0_]OXVMVMBBBBBBBBBBBBBBBBBB
@HWI-EAS443:3:80:924:423#0/1
ACCGGCTTGAAATTCTTGCTGTATCTTGATGTCCCCACAA
+HWI-EAS443:3:80:924:423#0/1
a`aaaaaa[W¥GX^V]_NTW]SZ_S^_RXVKZSY_[¥]]_
@HWI-EAS443:3:8:1416:996#0/1
GCTATTTCCGGCTTGAAATTCTTGCTGTATCTTGATGTCA
+HWI-EAS443:3:8:1416:996#0/1
`aYa^^`[[a`Y`^UXDU¥NN^W^]]Z_QGY^¥¥V^LOG
@HWI-EAS443:3:37:1487:1043#0/1
GACTCGGAGTCGACCCTGGCATCAATCCGTGCCCTAGACA
+HWI-EAS443:3:37:1487:1043#0/1
aaaa`b`ab`a_baQZYXMDLNYa`¥VMYDYOg]UYXaY^
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+HWI-EAS443:3:1:1182:1880#0/1
a_[UNZa`aa¥[U]aab`_`¥^Nb^Y__`a_^Ga_G`BBB
@HWI-EAS443:3:12:83:1234#0/1
CTTGTCTTCGTCATTTTCACCTCTCCAGAAATTTTCGGT
+HWI-EAS443:3:12:83:1234#0/1
``_^¥aa]Z__¥R_P]]`adWVV¥T¥ZTX^XNXTYUUBB
@HWI-EAS443:3:22:995:775#0/1
CCTTGTCTTCGTCATTTTCACCTCTCCAGAAATTTTCGG
+HWI-EAS443:3:22:995:775#0/1
abbbb``abbaaa``abbbbaa```_a```_`a^aaa]`Y
@HWI-EAS443:3:31:683:248#0/1
GTCCATTTTCACCTCTCCAGAAATTTTCGGTCATTGATTCC
+HWI-EAS443:3:31:683:248#0/1
aaa``abbaaaaaaaaaa``aa`a`¥^a^]_`_`_]_X
@HWI-EAS443:3:68:1023:1426#0/1
GATCAAACGTGGAATCAATGACCGAAATTTCTGGAGAGGT
+HWI-EAS443:3:68:1023:1426#0/1
_`¥a_R]`__[LW_a]Y[a^aba`_^aaaa`a_]¥W¥`T
@HWI-EAS443:3:75:231:496#0/1
CAATGACCGAAATTTCTGGAGAGGTGAAAATGGACGAAGG
+HWI-EAS443:3:75:231:496#0/1
^WaaaaZY__Q¥]_]bab]Z`a][L^URXZY____`[]][L
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+HWI-EAS443:3:81:1128:1275#0/1
a¥TTTFVU`¥]_a¥`X[_`^RaWQOVNFXR]MSXV_VDMRV
@HWI-EAS443:3:37:984:228#0/1
GGGGGCTATACGAAGCAATCGAGGAGTGCATGATTAATGA
+HWI-EAS443:3:37:984:228#0/1
a][HY[]```]`a`a]ZY[[L]]UUXFX¥PKTRSQNUQTQ
@HWI-EAS443:3:52:261:1975#0/1
GTTCCCTTGATGGTGGCGTACATGCTAGAAAGAGAATTGG
+HWI-EAS443:3:52:261:1975#0/1
a``aY__X]]]``Za]^a]YZ[]_`^V¥R]]][T¥¥¥W^^V
@HWI-EAS443:3:19:1481:1427#0/1
GCATGTCCCTTGGGTTAAGTGCAACTTCAATATAACA
+HWI-EAS443:3:19:1481:1427#0/1
_0]GXI]PXRb_aaMU[T`]a_`ZN^^aZT^[]_``ZYR[
@HWI-EAS443:3:31:803:455#0/1
GTCTCATATACAACAGGATGGGAACAGTGACCACAGAAGC
+HWI-EAS443:3:31:803:455#0/1
`^baaa`[`a_`]ZM]a__¥R¥a^]]¥aa]¥UW`X[]YS
@HWI-EAS443:3:31:1366:695#0/1
AGGAATTGCCCGCTAATTTACGGAAACCACTGAATGTCC
+HWI-EAS443:3:31:1366:695#0/1
Y`a¥bb`_ZZ¥ZYHI_V_Y`X_¥W_]a[BBBBBBBBBBBB
@HWI-EAS443:3:30:1254:816#0/1
CCGCATTTCTTCAATTAACCACCTTATCTCCTCAAATTTTC
+HWI-EAS443:3:30:1254:816#0/1
XbbZ``¥`bba^_a`bbbaba^¥^`b`aa[ab`ab]bWaa

@HWI-EAS443:3:31:518:1819#0/1
GCCGCATTTCTTCAATTAACCACCTTATCTCCTCAAATTT
+HWI-EAS443:3:31:518:1819#0/1
a_`Y¥_Y¥T¥YXbba`¥R¥_PZa_X_J_H_Y`_a]ZO[¥Y
@HWI-EAS443:3:40:698:355#0/1
GCCGCATTTCTTCAATTAACCACCTTATCTCCTCAAATTT
+HWI-EAS443:3:40:698:355#0/1
a_TXLQVTLR[XXLNTVQLLW^ZVVVRSTTQ]VYQFOYRT
@HWI-EAS443:3:69:667:176#0/1
GCCGCATTTCTTCAATTAACCACCTTATCTCCTCAAATTT
+HWI-EAS443:3:69:667:176#0/1
aa`aaa`_Ya_aa_a_¥[¥TY^_`^Z^]]_][^][YY]VV
@HWI-EAS443:3:12:74:1186#0/1
CAGGGCCGAAGGTACCATGCTTCAACCTTTCAACCTTTTC
+HWI-EAS443:3:12:74:1186#0/1
a]YT^aaa[RUTP`_OR]¥DU[Y_]aW`_`^YU¥XZ]¥^
@HWI-EAS443:3:35:1406:736#0/1
GGTACCATGCTTCAACCTTTCAACCTTTTCGAAATAAGTT
+HWI-EAS443:3:35:1406:736#0/1
ababbabbbbbbbbbbbbabbbabbbbbbbbbbbbaa_b
@HWI-EAS443:3:70:143:175#0/1
TTCAGTCAATGCACCTGCATCCTTTCCAAGAACTGTCATT
+HWI-EAS443:3:70:143:175#0/1
`_XQY[`]JSJZY__VV^¥^^TTVJZFW^UFS^IUVVRR]]
@HWI-EAS443:3:27:1570:654#0/1
GCAACATTGCTGGCTGGATCCTGGGAAATCCAGAGTGTGA
+HWI-EAS443:3:27:1570:654#0/1
_H_aaaaaaaaa`W^X`¥W`aXZZaS`_`[LSVV_W^VZ[
@HWI-EAS443:3:38:841:280#0/1
GCCCAATCATGACTCGAACAAAGGGGTAACGGCAGGATGT
+HWI-EAS443:3:38:841:280#0/1
aaaaa_ZZ¥]¥^_]aa^U]`_¥]ZDVUBBBBBBBBBBBBBB
@HWI-EAS443:3:69:988:446#0/1
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+HWI-EAS443:3:69:988:446#0/1
abaaa`_babbbb_ab_a`[_baaaH][aba`_Z_RBBBB
@HWI-EAS443:3:80:879:124#0/1
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+HWI-EAS443:3:80:879:124#0/1
ababaab`bab`ba^`aa__a¥Uaa[`aa[[aYS]U¥V¥
@HWI-EAS443:3:18:1256:993#0/1
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+HWI-EAS443:3:18:1256:993#0/1
X_[`UW_b_^ZSU_VY0`]aa`VYQ[a__`I`^OF]XV¥I
@HWI-EAS443:3:19:1637:89#0/1
CATTAAATCAGGCACTCCTCGATTGCTTCATATAGCCCCCA
+HWI-EAS443:3:19:1637:89#0/1
`a_bKb`b[ab_]U_`^a_]b`WJJ]Z_bV`_a^_0IZ^G
@HWI-EAS443:3:22:1042:122#0/1
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+HWI-EAS443:3:22:1042:122#0/1
`bbaab_`aa]`^`b`aQ`Z`VZYWY__US[a]V`¥]`Y
@HWI-EAS443:3:2:518:443#0/1
TGGGGGCTATATGAAGCAATCGAGGAGTGCCTGATTAATG
+HWI-EAS443:3:2:518:443#0/1
]a`^a[¥Z`b`a]b__J]]UY_]`aKaYbU`U_X[[aaab
@HWI-EAS443:3:37:1495:1644#0/1
TGGGGGCTATATGAAGCAATCGAGGAGTGCCTGATTAATG
+HWI-EAS443:3:37:1495:1644#0/1
ab`_]Z_aabba[b_`Xaa_aaaY[a_U¥H]]`_a_aa`T
@HWI-EAS443:3:50:21:1166#0/1
TGGGGGCTATATGAAGCAATCGAGGAGTGCCTGATTAATG
+HWI-EAS443:3:50:21:1166#0/1
Zbaa^^`b]S^`a]aaaaa`^^^`X_][[S^QZN_`_]`
@HWI-EAS443:3:71:303:882#0/1
TGGGGGCTATATGAAGCAATCGAGGAGTGCCTGATTAATG
+HWI-EAS443:3:71:303:882#0/1
aa^^^abb_aZa```_baaaaaaaaaY]_`_`aa_a``Y]a
@HWI-EAS443:3:92:1241:1682#0/1
AAATGAGCAGGGGTCAGGATATGCAGCCGACATGAAGAGC
+HWI-EAS443:3:92:1241:1682#0/1
T[_¥X_GL¥HaVXQa^`P`aa`a^aZUMbaGGXX[_¥^^`_`
@HWI-EAS443:3:74:1460:1351#0/1
GGCAACACCCTTGGCCTTGATATCGAAACAGCGACTCTTG
+HWI-EAS443:3:74:1460:1351#0/1
^]_bbbaab`^_b_W¥¥`abaaTa```]WbbQDYX`__aa
@HWI-EAS443:3:48:956:1260#0/1
CAGATCTTATGATCTCAGAGAACTCTTCTTTCTTGATCCG
+HWI-EAS443:3:48:956:1260#0/1
Zb[Y_baab^[^bbbaa^Xbbbbbabaa_baabba`b`a^
@HWI-EAS443:3:34:258:1523#0/1
GACGGATCAAGAAAGAAGAGTTCTCTGAGATCATAAGATC
+HWI-EAS443:3:34:258:1523#0/1
abbb`baabbbbaa`abab`_bbaba`a`aa`aaaa¥aa`
@HWI-EAS443:3:94:1737:49#0/1
ACTTGGGTAAACCAGACATATGTTAACATCGGCAACAGCA
+HWI-EAS443:3:94:1737:49#0/1
aX]aYU```a`^`_`a`_Y_aa`^`_aXP`_¥]Z[^YFUDHZ
@HWI-EAS443:3:32:36:614#0/1
TAGTATTCTCACAAGAGGATTGCATGATCAAGGCAGTTAG
+HWI-EAS443:3:32:36:614#0/1
aab_aaababaaaaa_a]]`_aaaa`^^^`Z`^]`^_OXVX
@HWI-EAS443:3:92:645:794#0/1
CAAGTGGCACACACTAGACCAAAGTAGCTTCTGTGGTCA
+HWI-EAS443:3:92:645:794#0/1
¥`]`^`_a`][VXaaZRF¥a``Z`^abb`_Z`Z¥^]Y¥_
@HWI-EAS443:3:18:41:1718#0/1
AACCGTTTATTGAAATTGGAGTAACACGGAGGGGAACAT
+HWI-EAS443:3:18:41:1718#0/1
`aaa¥UP[]]UU]XGR^```^`UY_____`Z[]UR[TWT^Z

@HWI-EAS443:3:22:284:1737#0/1
TGGCCGGGAGACAAAATAACATTTCGAAGCAACTGGAAATC
+HWI-EAS443:3:22:284:1737#0/1
a^_bbaa`aaaaab`babbab`aaaaaYaaaa¥_a`a__¥
@HWI-EAS443:3:82:1231:2032#0/1
CGGCCGGGAGACAAAATAACATTTCGAAGCAACTGGAAATC
+HWI-EAS443:3:82:1231:2032#0/1
ab__V]b`_`[]bbb`abbabb__`aa__ab_b`_aaaa
@HWI-EAS443:3:23:1498:444#0/1
GGCCGGGAGACAAAATAACATTTCGAAGCAACTGGAAATCT
+HWI-EAS443:3:23:1498:444#0/1
__^_b]babbababbabbbaaaaaa`b]aa_`a`aaa`Na
@HWI-EAS443:3:62:1690:1820#0/1
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+HWI-EAS443:3:62:1690:1820#0/1
abaaabb`^b`aabbba_bba^aa`b]aa`bbaa_`baa
@HWI-EAS443:3:77:1468:330#0/1
CGAAAATCGAAATTAACAAGTTTGCTGCAATATGCACGTT
+HWI-EAS443:3:77:1468:330#0/1
`b`_ba_bbPbbKbb`X_V`^b_YaWbb`bbbba_¥`_`Xa
@HWI-EAS443:3:30:1747:1935#0/1
ACACGTTCCATTGTCTGAACTAGTTGTTTCTACAATGTAG
+HWI-EAS443:3:30:1747:1935#0/1
`_]_YWSX`¥Z]WORZV¥OTJYW[UX_BBBBBBBBBBBBBB
@HWI-EAS443:3:25:103:391#0/1
CTGTAATGAGAATGGGAGACCTTCACTACCTCCAGAGCAG
+HWI-EAS443:3:25:103:391#0/1
abb`_V`bbb_R_b`¥_ba`aaabbbba¥_`^`a`a`a`__`
@HWI-EAS443:3:46:881:1494#0/1
GTCTCTGAAAATATACAGAGATTCGCTTGGAGAACTGTA
+HWI-EAS443:3:46:881:1494#0/1
a]a[_aa^XNL¥]a]`Z_^_[X¥XZ[]]¥`^^¥U]`¥Z
@HWI-EAS443:3:73:807:1869#0/1
CTGTAATGAGAATGGGAGACCTTCACTACCTCCAGAGCAG
+HWI-EAS443:3:73:807:1869#0/1
aa_YF]aaaa^a`__a`aa__a]N_a_`_`a__^^`__
@HWI-EAS443:3:35:1218:238#0/1
GCCTGCGGATGCCTTTTGTGATTGGTATTCCCTCCACTC
+HWI-EAS443:3:35:1218:238#0/1
]`a¥¥]a¥Za_ZZb]V^^Z_`_`]UZYZZ_a^¥ZPW]WKa
@HWI-EAS443:3:96:933:248#0/1
GGAATGCTCCTGTTATCCTGATTCTAGTGAATTACATGT
+HWI-EAS443:3:96:933:248#0/1
aaaaaaWa`a^aX¥aaa`[]R¥`0`Z^Y]U¥V`_^Z][][]
@HWI-EAS443:3:55:1512:1275#0/1
ACTAATTGATGGCCATCCGAACCTTTTTGGTCGCTGTCTG
+HWI-EAS443:3:55:1512:1275#0/1
`_aa][R¥a`baaZ`¥[¥_]_WSQW`_`a__[UVUa_]W¥[
@HWI-EAS443:3:68:1174:1527#0/1
ATTCGACACTAATTGATGGCCATCCGAACCTTTTTGGTCG

+HWI-EAS443:3:68:1174:1527#0/1
aba_R¥¥aba`aa`X` `_XDZaa`W` `aJ`X` `aaaR[¥
@HWI-EAS443:3:54:350:951#0/1
GAAGGTCCGACATCCGACATGCGAACAGAAGTTGCAGTGA
+HWI-EAS443:3:54:350:951#0/1
U`_WTL]PUPa`]¥_^]SM`XZaVVQGWXWSJQ`[J_N_M
@HWI-EAS443:3:38:1232:1048#0/1
CACCTTCATTGTTCCCGCTGAATGCTGCCATAACGGTTGC
+HWI-EAS443:3:38:1232:1048#0/1
_¥_S[[abb^_GOQ]_YabaaUabS_Z`_ZHZ[```[a[D
@HWI-EAS443:3:91:418:698#0/1
GAGGAAATACCAATCAACAAAAGGCATCTGCAGGCCAGAT
+HWI-EAS443:3:91:418:698#0/1
^Z¥`_¥Z]__]___`[R[V`_¥VY^¥UUUTUVRSUY¥WW
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CGTTGGGCCATTCTATTCCACCATGTTACGGCCAGAGGT
+HWI-EAS443:3:71:205:956#0/1
aa``aa`aa^aa`aaa`aaaa`^^a¥^aa^a^¥¥^^VM
@HWI-EAS443:3:40:523:966#0/1
TTCCTGGCGATGATTACATATATTACCAGAAATCACCACG
+HWI-EAS443:3:40:523:966#0/1
XS¥¥_¥`XZWY^__[OWYaWX^¥^XEYYDRX__`TIUH]T
@HWI-EAS443:3:89:262:1330#0/1
CATATATTACCAGAAATCAACCCGAGTGGTTCAGACTGAA
+HWI-EAS443:3:89:262:1330#0/1
aaaaab]a``aa¥^aaa_¥]aa]___V^[Y[_a_```____
@HWI-EAS443:3:25:1602:1433#0/1
GAACCACCCGGTTGATTTCTGGTAATATATGTAATCATC
+HWI-EAS443:3:25:1602:1433#0/1
a_ZH[_aDP[S¥EM[IVT^I`_BBBBBBBBBBBBBBBBBB
@HWI-EAS443:3:50:766:1438#0/1
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+HWI-EAS443:3:50:766:1438#0/1
`bab_¥bba`abbb_ba_^b^]`aa^^a]_IU¥F]GQ^J^
@HWI-EAS443:3:74:520:1538#0/1
TATATTACCATAAATCAACCCGAGTGGTTCAGAAACATCC
+HWI-EAS443:3:74:520:1538#0/1
YXQT_aY`Z¥HP[_Sa¥Z^abaWTS^a`ab`_aZ_bb`aa
@HWI-EAS443:3:90:1251:1372#0/1
CTGAACCACTCGGGTTGATTTCTGGTAATATATGTGATCA
+HWI-EAS443:3:90:1251:1372#0/1
`b``b``aba^`b_F_bb¥bb`bba]``aaaabaXSab`]
@HWI-EAS443:3:3:766:705#0/1
GTCGGTTGATTTCTGGTAATATATGTAATCATCGCCAGG
+HWI-EAS443:3:3:766:705#0/1
a_]_]_aXaa^aaa]aaa]`aa`aa```a_`¥a_^a[X_aY
@HWI-EAS443:3:13:1186:684#0/1
ATGTTCTCGCGATGATTACATATATTACCAGAAATCAAC
+HWI-EAS443:3:13:1186:684#0/1
a^aWX¥`^aV]a____^`¥ZX`__^_`^ZW_0]_^_]`]W

@HWI-EAS443:3:13:840:1347#0/1
GAACCACTCGGGTTGATTTCTGGTAATATATGTAATCATC
+HWI-EAS443:3:13:840:1347#0/1
a`bb`baabaaa_baababaabb_aaaaababaaaa^aaY
@HWI-EAS443:3:1:954:391#0/1
TCCTCGAATGTTCTGGCGATGATTACATATATTACCAGA
+HWI-EAS443:3:1:954:391#0/1
abb¥]_`bbaaa`[`a_Ra^S`]^`^`_`[]baa_¥0YaBB
@HWI-EAS443:3:22:1216:1924#0/1
CTGGTAATATATGTAATCATCGCCAGGAACATTCGAGGAT
+HWI-EAS443:3:22:1216:1924#0/1
abba^bbbbbbbbbabaabbaaaa_a_`aa`a____]aa__a
@HWI-EAS443:3:23:792:845#0/1
CAAAATCCTCGAATGTTCTGGCGATGATTACATATATTA
+HWI-EAS443:3:23:792:845#0/1
_ZLZ[abbaS`ab]_Q^^UQ_aaZaU[¥]YWKFNX]`]__
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ATATTACCAGAAATCAACCCGAGTGGTTCAGAAACATCCT
+HWI-EAS443:3:24:1251:1428#0/1
aabaa`T[baab____a_[`VaW_U`_Y_]`Y[^_U_^YR`
@HWI-EAS443:3:25:1336:1643#0/1
AGGATGTTTCTGAACCACTCGGGTTGATTTCTGGTAATAT
+HWI-EAS443:3:25:1336:1643#0/1
^^_a^[Z_bZ``_aa_VP`¥``[Qaa``a^Taba¥^_a_a
@HWI-EAS443:3:2:176:1652#0/1
GTTTCTGAACCACTCGGGTTGATTTCTGGTAATATATGTA
+HWI-EAS443:3:2:176:1652#0/1
aQWYX^_AZI¥¥_Y]a`aGSa][Z^V_a¥0J¥XY]__¥ZX
@HWI-EAS443:3:30:107:403#0/1
GATTACATATATTACCAGAAATCAACCCGAGTGGTTCAGA
+HWI-EAS443:3:30:107:403#0/1
a`aa_]aaaaaaaa`aaa^Q_`aa_`a__`S`_]_^`¥Q
@HWI-EAS443:3:33:1176:1390#0/1
CAGGATGTTTCTGAACCACTCGGGTTGATTTCTGGTAATA
+HWI-EAS443:3:33:1176:1390#0/1
a`]__]^]aaa_V_aXaa``^STUXVV_`^]YYOY¥]_¥
@HWI-EAS443:3:33:297:965#0/1
CTCGAATGTTCTGGCGATGATTACATATATTACCAGAAA
+HWI-EAS443:3:33:297:965#0/1
aab`W`T^N]aa^____`Z__]¥W¥QW^YWZZWVU[UW¥W
@HWI-EAS443:3:33:836:403#0/1
GGTAATATATGTAATCATCGCCAGGAACATTCGAGGATTT
+HWI-EAS443:3:33:836:403#0/1
Z[`^`¥`[XW¥Z__a`^]a]VUSU¥X]QWW¥¥TYXRQ
@HWI-EAS443:3:36:897:1391#0/1
ATGTTTCTGAACCACTCGGGTTGATTTCTGGTAATATATG
+HWI-EAS443:3:36:897:1391#0/1
`^_W^bb_Z____bbbbba¥¥¥Z_aaa^`[```Y`[^a`aa`
@HWI-EAS443:3:38:1217:1408#0/1
CAAAATCCTCGAATGTTCTGGCGATGATTACATATATTA

+HWI-EAS443:3:38:1217:1408#0/1
ababbabaaba`aabaab``^aa`_a`a`]Y^`__`_a¥
@HWI-EAS443:3:3:609:1830#0/1
AACCCTCGGGTTGATTTCTGGTAATATATGTAATCATCG
+HWI-EAS443:3:3:609:1830#0/1
`a]^_Y`¥aaa[^__Y_a`^`_Z`Yaa_a]^`^`Z_Ua^^_
@HWI-EAS443:3:40:740:127#0/1
ATGTTCTGGCGATGATTACATATATTACCAGAAATCAAC
+HWI-EAS443:3:40:740:127#0/1
a_aYZM^_XZY^`_][[_¥ZZVYZUHx^[[SYJPTYXPN
@HWI-EAS443:3:43:276:188#0/1
ATATTACCAGAAATCAACCCGAGTGGTTCAGAAACATCCT
+HWI-EAS443:3:43:276:188#0/1
abbbbaababbbbaaaba`_baa_aa`^X`a^¥a`^`_]^_
@HWI-EAS443:3:44:298:430#0/1
CAAATCCTCGAATGTTCTGGCGATGATTACATATATTA
+HWI-EAS443:3:44:298:430#0/1
aababXaaa_Z¥a_b_aa]_a[¥ZW¥a`X]HLZXUUZ_W
@HWI-EAS443:3:45:1434:944#0/1
CTGAACCTCGGGTTGATTTCTGGTAATATATGTAATCA
+HWI-EAS443:3:45:1434:944#0/1
`¥ZW¥a`[^`ZZ__[EY_V¥_]^[^`ZOWWZX`^`_X]X¥W_
@HWI-EAS443:3:45:1604:493#0/1
CACTCGGGTTGATTTCTGGTAATATATGTAATCATCGCCA
+HWI-EAS443:3:45:1604:493#0/1
`Z¥OR`^`bSa`[¥_X]aba`^`a]aa`aa`_a`]^`YaTM¥
@HWI-EAS443:3:47:118:1278#0/1
CTCGGGTTGATTTCTGGTAATATATGTAATCATCGCCAGG
+HWI-EAS443:3:47:118:1278#0/1
abaabb_babaaab^b_aabbaaab^bbaaaaa`aa^a
@HWI-EAS443:3:47:998:820#0/1
CTGGCGATGATTACATATATTACCAGAAATCAACCCGAGT
+HWI-EAS443:3:47:998:820#0/1
a_¥]X`^`b`ab`^¥babaaaa`b]W`^`a]UXa¥XL
@HWI-EAS443:3:53:389:23#0/1
GGATGTTTCTGAACCTCGGGTTGATTTCTGGTAATATA
+HWI-EAS443:3:53:389:23#0/1
a_U¥^W__V`UY]QUX[¥Z]a`X^]TZ_]S]Y_WSU[]]X
@HWI-EAS443:3:56:1760:950#0/1
GAACCTCGGGTTGATTTCTGGTAATATATGTAATCATC
+HWI-EAS443:3:56:1760:950#0/1
aaa`_aaa`aaa]a¥U^aa^a^ZV__`_a`a`_`_`[0[]V
@HWI-EAS443:3:58:1208:631#0/1
GAACCTCGGGTTGATTTCTGGTAATATATGTAATCATC
+HWI-EAS443:3:58:1208:631#0/1
aaba_a`^`aaaa^aa_aaa_aaa__aa`aaaaa`^`a`_`^`
@HWI-EAS443:3:61:1335:695#0/1
CTCGGGTTGATTTCTGGTAATATATGTAATCATCGCCAGG
+HWI-EAS443:3:61:1335:695#0/1
abbb`bKbbbabbbbaabbbbaabbbbaabbaXa`a

@HWI-EAS443:3:63:898:357#0/1
CATATATTACCAGAAATCAACCCGAGTGGTTCAGAAACAT
+HWI-EAS443:3:63:898:357#0/1
abbaabaaa__baaaaaa``aa_aZa_^_a_]``YaT
@HWI-EAS443:3:68:580:294#0/1
GAACCACTCGGGTTGATTTCTGGTAATATATGTAATCATC
+HWI-EAS443:3:68:580:294#0/1
_^a`a]aaa_U_a^aa`_aa`U`__a_a`a^`_]W__`
@HWI-EAS443:3:6:198:420#0/1
GGATGTTTCTGAACCACTCGGGTTGATTTCTGGTAATATA
+HWI-EAS443:3:6:198:420#0/1
aa`aab]aa^bIaL[Waaa_N_[VS`_¥a`aN¥_`____
@HWI-EAS443:3:71:106:1500#0/1
CAGGATGTTTCTGAACCACTCGGGTTGATTTCTGGTAATA
+HWI-EAS443:3:71:106:1500#0/1
abbaa]a`^`¥]aab_a`[_`M_]^^`_a]_Y`_AY
@HWI-EAS443:3:71:36:634#0/1
CAAAATCCTCGAATGTTCTGGCGATGATTACATATATTA
+HWI-EAS443:3:71:36:634#0/1
aaa]UYab[ba`Q^_Y_aa__`_]_[SY¥]^M¥^^_] [Q
@HWI-EAS443:3:72:1784:123#0/1
GTTCTGGCGATGATTACATATATTACCAGAAATCAACCC
+HWI-EAS443:3:72:1784:123#0/1
aaaW_aba^b`^a0^_S]^]^_Wa`UGX^`VSW_X¥ZWSX
@HWI-EAS443:3:72:524:225#0/1
TCTGGTAATATATGTAATCATCGCCAGGAACATTCGAGGA
+HWI-EAS443:3:72:524:225#0/1
a`aaa`_aaa_aa_aa`a_]`Y[_`_^_]`^Z`^`^Z
@HWI-EAS443:3:79:277:1353#0/1
TGTTTCTGAACCACTCGGGTTGATTTCTGGTAATATATGT
+HWI-EAS443:3:79:277:1353#0/1
UN[Za_^V^^`]_Y¥¥[U¥VQ]UZX`^ZXOR^Z^a_¥YL
@HWI-EAS443:3:7:1375:86#0/1
TCAAAATCCTCGAATGTTCTGGCGATGATTACATATATT
+HWI-EAS443:3:7:1375:86#0/1
XY^`Y_baa_Yb_a^`aXY`aUPa¥X]R`_]UXFNZ[_X
@HWI-EAS443:3:7:1691:1357#0/1
CATATATTACCAGAAATCAACCCGAGTGGTTCAGAAACAT
+HWI-EAS443:3:7:1691:1357#0/1
a`a^aaba`baaaaaaa`XUa_a]a_T_Y`_^_X`
@HWI-EAS443:3:7:922:1444#0/1
CGAATGTTCTGGCGATGATTACATATATTACCAGAAATC
+HWI-EAS443:3:7:922:1444#0/1
`bbbabab``aaaab]aaXZ`W_a`_aaa[MSa`_^`__
@HWI-EAS443:3:82:1780:396#0/1
CAGGATGTTTCTGAACCACTCGGGTTGATTTCTGGTAATA
+HWI-EAS443:3:82:1780:396#0/1
Za`bbbbbbbbba¥a```bb[`a`bbbbbbS]^abb
@HWI-EAS443:3:84:400:1372#0/1
CTGGCGATGATTACATATATTACCAGAAATCAACCCGAGT

+HWI-EAS443:3:84:400:1372#0/1
aaa`aaa_a`a`a`a_]_aa_a`a`a`a`_]a^`_`^]Y
@HWI-EAS443:3:84:468:512#0/1
CTGGTAATATATGTAATCATCGCCAGGAACATTCGAGGAT
+HWI-EAS443:3:84:468:512#0/1
abb`^abbbbabbbbabab`bba`aabaa`a`a`_a
@HWI-EAS443:3:90:43:2018#0/1
ATATATTACCAGAAATCAACCCGAGTGGTTCAGAAACATC
+HWI-EAS443:3:90:43:2018#0/1
a[[]W^_]aa`]a`a`b^a_a`¥^0¥SU[¥[^XTZ[YT_
@HWI-EAS443:3:92:1144:448#0/1
CAGGATGTTTCTGAACCACTCGGGTTGATTTCTGGTAATA
+HWI-EAS443:3:92:1144:448#0/1
abbaabbabaabbaaa_a`aabba¥U^`aab_aba_a`aa
@HWI-EAS443:3:93:1402:1954#0/1
GAACCACTCGGGTTGATTTCTGGTAATATATGTAATCATC
+HWI-EAS443:3:93:1402:1954#0/1
aZa]ab_b¥bbaIaaa_abXb¥bWb_aaa¥ab_aaYY_Ja
@HWI-EAS443:3:94:462:1959#0/1
CAAAATCCTCGAATGTTCCCTGGCGATGATTACATATATTA
+HWI-EAS443:3:94:462:1959#0/1
a¥ZZ¥UFWUa[]RU[VQZ`Y`VZ[V[WSTQMMSUa`^WWW
@HWI-EAS443:3:97:467:441#0/1
CAGGATGTTTCTGAACCACTCGGGTTGATTTCTGGTAATA
+HWI-EAS443:3:97:467:441#0/1
aabb`babbb`baabaaaa_abbaababaa`aab^aaaa
@HWI-EAS443:3:24:875:343#0/1
TCGTCCTTCATTGTTCCCGCTGAATGCTGCCATAACGGTT
+HWI-EAS443:3:24:875:343#0/1
aabaaaaaaab`aaa`]^_^]a`_`^`^`a`a`_Q_
@HWI-EAS443:3:84:893:464#0/1
TCGTCCTTCATTGTTCCCGCTGAATGCTGCCATAACGGTT
+HWI-EAS443:3:84:893:464#0/1
`b`a`aa`aa_aaa`_T[Xab`a`VYZT`a¥^X¥]YX
@HWI-EAS443:3:50:1236:1523#0/1
AGTAGTGCTAGCCAGCACCATTCTGTTTTTCATGCCTGATT
+HWI-EAS443:3:50:1236:1523#0/1
Q¥YWaU_H__bW^`b`NaUSb_Sa`^^Y`OHJYM]``[aG
@HWI-EAS443:3:83:1099:1376#0/1
TCTTGATGTCCCTACAAAATCATATGCATCTGCATTCTGA
+HWI-EAS443:3:83:1099:1376#0/1
a`bba¥`_^`¥a_^^aa^a`a``^_a`_]a`_`^`^`]
@HWI-EAS443:3:18:325:159#0/1
CCGGCTTGAACCTTCTTGCTGTATCTTGATGTCCCTACAAA
+HWI-EAS443:3:18:325:159#0/1
ZS¥]YLXYROLMXV¥][HKXSXX¥^VOSZSSUYFJOLV[
@HWI-EAS443:3:4:1016:1382#0/1
CAAAAATGCAGTTGGGGTCTCATCGGAGGACTTAAATGG
+HWI-EAS443:3:4:1016:1382#0/1
^Z¥aQX_b]Ia`Yabaa`a`_Z0aa`aZ]^aaZ`a]a]

@HWI-EAS443:3:97:347:1255#0/1
ATCGGAGGACTTAAATGGAATGGTAACACGGTTCGAGTCT
+HWI-EAS443:3:97:347:1255#0/1
a_aa`__a][`a`_a_a`_____a_¥`W_]W^¥_^_X]^
@HWI-EAS443:3:32:713:170#0/1
AGAGAACTCATCCTTTATGACAAAGAAGAAACAAGGAAAT
+HWI-EAS443:3:32:713:170#0/1
aaa__aa]a`^_Y^__a^a__`WY_`a¥____¥a`aXTWQR
@HWI-EAS443:3:67:1649:1200#0/1
GAATAATGAGAAGCAATTTTCTCGATTCCAGCCGAAAACCC
+HWI-EAS443:3:67:1649:1200#0/1
^a`ZXbb^0aS_W`bRUaTaUaZ]Xa[`Ta__`[T_[]`^
@HWI-EAS443:3:58:735:1199#0/1
GGCGGGGGAGGTATATCTTTTCGCTCCGAGTCGGCATTTTG
+HWI-EAS443:3:58:735:1199#0/1
``^a`a`YXV_K¥_Z¥`]]`X^VXX¥Y]]PV[XQX]^`S
@HWI-EAS443:3:82:818:1912#0/1
GGGGGAGGTATATCTTTTCGCTCCGAGTCGGCATTTTGGGC
+HWI-EAS443:3:82:818:1912#0/1
``_`__[_Xa__a¥^`]]V¥¥a`]]¥`0¥`¥`¥_VKPP¥
@HWI-EAS443:3:97:1691:1759#0/1
CGGGTGTCTGACAAGTTGTATTGCAATCGTGGACTGGTGT
+HWI-EAS443:3:97:1691:1759#0/1
Kb````_bbbbW``]bbab`bbbbbbbab_b^b`aaaba`ba
@HWI-EAS443:3:20:1770:723#0/1
ATCTTTTCGCTCCGAGTCGGCATTTTGGGCCCGGGGTAT
+HWI-EAS443:3:20:1770:723#0/1
a^Ra`¥¥]a)`¥`U¥Z¥`ZZZ^[]^GV¥QMQRPUZBBBB
@HWI-EAS443:3:70:280:1602#0/1
TATCTTTTCGCTCCGAGTCGGCATTTTGGGCCCGGGGTTA
+HWI-EAS443:3:70:280:1602#0/1
^W__R_a____]^_X^R¥b``]T]``a[GJ`_¥`ZXVQTM`
@HWI-EAS443:3:80:488:938#0/1
CCCTGGGTCTTGCTTAATGCATCTTGGTTCAACTCCTTCC
+HWI-EAS443:3:80:488:938#0/1
abaaaa]aW`WZ`S^`Z[]_Uaaa)`]]`_a]``a__`^^
@HWI-EAS443:3:15:244:1307#0/1
AGTGCTGGGAAGGACCCTAAGAAAACAGGAGGGAGATGCA
+HWI-EAS443:3:15:244:1307#0/1
abWa^]ba``aaa`a`aabaa`a_`aaa_abaa`aa^_`a
@HWI-EAS443:3:36:1119:1908#0/1
GGGCCCTCCTGTTTTCTTAGGGTCCTTCCCAGCACTGGGA
+HWI-EAS443:3:36:1119:1908#0/1
`aabbbbabbbbabbbbbbba``baaaaaabaaaaaa_a
@HWI-EAS443:3:83:38:1927#0/1
GCCCTCCTGTTTTCTTAGGGTCCTTCCCAGCACTGGGATG
+HWI-EAS443:3:83:38:1927#0/1
YK`_X`_R]TYXa]ZR_Wa]Ya``Z]_`^`[`Ya[XWS]V]
@HWI-EAS443:3:86:1245:974#0/1
ACGCTGTCCTGAGAGGATTTCTCATTTTGGGCAAAGAAGA

+HWI-EAS443:3:86:1245:974#0/1
aab`Z]WOW_¥Jaa[`W^]a`S^a`]Z_aaRX]_`aa`]
@HWI-EAS443:3:61:1161:424#0/1
AAAGAGTTCAACCACCTGGAAAAAGAATAGAGAACTTAA
+HWI-EAS443:3:61:1161:424#0/1
aaa^`b^a`aa][`^aaba`WKV¥_a_`_`a[`^_X_`]Q
@HWI-EAS443:3:60:1048:679#0/1
GGGCCATCTAGCTCCAGTGCTGGTCTGAAAGATGACCTT
+HWI-EAS443:3:60:1048:679#0/1
aZX`aaW^aYSTT_HWX¥Xa¥[a[SJUaTX[]TLNQP^NS
@HWI-EAS443:3:67:246:1199#0/1
CGGGCCCCTCCAATCTGTGTGCTGTGGCACATTTCCAAGA
+HWI-EAS443:3:67:246:1199#0/1
a`XV_baaaaa`[aaaaU[[a^]X^`¥¥]V]__^^`a_^V
@HWI-EAS443:3:63:1124:1998#0/1
GATTTGTCTTCCAGGGCGGGGAGTTTTCGAGGTCTTGG
+HWI-EAS443:3:63:1124:1998#0/1
abaaaYaa^^^`]`Z¥`b]a¥BBBBBBBBBBBBBBBBBB
@HWI-EAS443:3:80:44:1371#0/1
GGGGTGGGAGTTTTCGAGCTCTCGGACGAAAAGGCAACG
+HWI-EAS443:3:80:44:1371#0/1
__`¥S_^[`^_Waa```a^_`_¥`¥`_`a¥aI[`T¥¥a`[
@HWI-EAS443:3:52:452:1600#0/1
GGGATCGGGTTGAGGATACTGGTAAGAGGCAATTCTCCA
+HWI-EAS443:3:52:452:1600#0/1
aab_aaaaa_abab`^`XaX`^Z^aZ_aWNX]ZJV^[]
@HWI-EAS443:3:62:1643:506#0/1
AGCCCCGCACTCGCGAGATACTACTAAGACCACTGTGGA
+HWI-EAS443:3:62:1643:506#0/1
][FT[``bY__`Ra^Y_Z[_]X_U_N]___Y`SPZ¥X`U
@HWI-EAS443:3:37:168:464#0/1
ATGCCACAGAAATCAGAGCATCTGTGCGCAGAATGATTGG
+HWI-EAS443:3:37:168:464#0/1
_`a_a_`b¥a¥RWaaa]aa`a`a_Y^][FQRYLY^Y¥VUW
@HWI-EAS443:3:94:271:606#0/1
TAATCACTCAATGAGTGACATCGAAGCCATGGCGACTCAA
+HWI-EAS443:3:94:271:606#0/1
`aa_[```_¥U]a]_OX^]¥SRMPWJ^^¥]`^XYFVNQTY
@HWI-EAS443:3:42:966:602#0/1
AGTAGAAATGAAAAGTGGCGAGAGCAATTGGGACAGAAAT
+HWI-EAS443:3:42:966:602#0/1
_aP^`¥abbbbabababaab¥`[`¥a]`a_aaa_aaaaa`
@HWI-EAS443:3:94:632:1623#0/1
CAGAAGTGGAGGAAATACCAATCAACAAAAGGCATCCGCA
+HWI-EAS443:3:94:632:1623#0/1
a`[^]¥Xa^__]¥`aaaY```_aa__`^]¥___^]___`
@HWI-EAS443:3:15:1368:816#0/1
ATCCCTTTTGAAGAGCAACNGTTATGGCAGCATTTAGCG
+HWI-EAS443:3:15:1368:816#0/1
¥¥`]¥a`b`baaa`¥b^aaWD^aa`aaaZ`]IMLWFQKKH

@HWI-EAS443:3:81:107:1213#0/1
GGGGGCGATCTGAACCTTTGTCAATAGGGCAAATCAGCGAC
+HWI-EAS443:3:81:107:1213#0/1
aaa`ab[_ZVTNX[ZX^]¥T`]X[XX`_^ZTRUUTT][UM
@HWI-EAS443:3:2:1190:688#0/1
CATTCCTGAAGTCTGCTTAAAATGGGAACATAAATGTT
+HWI-EAS443:3:2:1190:688#0/1
aa_¥¥[]TUQ]XRTXQ¥[[Yq]a``___Y^N`_ZU`Y_YT
@HWI-EAS443:3:33:1591:1202#0/1
CGCCGTCTGAGTTCCTCAATGGTGGAACAGATATTCATGA
+HWI-EAS443:3:33:1591:1202#0/1
]SaaXHV`¥_a`]¥`a_OU]`]Ua^Y¥aa_WUPWOSSSZ^
@HWI-EAS443:3:53:254:1285#0/1
CGCCGTCTGAGTTCCTCAATGGTGGACAAATCTTCATGA
+HWI-EAS443:3:53:254:1285#0/1
ababbabbbabaaabaabaaa`a`aa`^W^aaabaaaa
@HWI-EAS443:3:16:950:1813#0/1
CGCCGTCTGAGTTCCTCAATGGTGGAACAGATCTTCATGA
+HWI-EAS443:3:16:950:1813#0/1
aaUJXX^^a_X]Za^[`]UR]RN[VW]Y]¥XSH¥W[¥]¥W
@HWI-EAS443:3:22:1336:882#0/1
CGCCGTCTGAGTTCCTCAATGGTGGAACAGATCTTCATGA
+HWI-EAS443:3:22:1336:882#0/1
aba```_ab^a[aba^abaa_YS[a_a`_^^^_a`_a`_`_`
@HWI-EAS443:3:30:43:863#0/1
CGCCGTCTGAGTTCCTCAATGGTGGAACAGATCTTCATGA
+HWI-EAS443:3:30:43:863#0/1
a^ZaZyaa_L`^`a`a]TWXYZ[ST[¥¥TN¥_[[S¥Y]_
@HWI-EAS443:3:40:1444:262#0/1
CGCCGTCTGAGTTCCTCAATGGTGGAACAGATCTTCATGA
+HWI-EAS443:3:40:1444:262#0/1
abbbbbbbbbbbabbbbbbbbb`ba_Z_ab_a_aaaaaa`
@HWI-EAS443:3:42:1656:1068#0/1
TCGCCGTCTGAGTTCCTCAATGGTGGAACAGATCTTCATG
+HWI-EAS443:3:42:1656:1068#0/1
aa`_]``^aaa`^a`aa`a`aadWaaaa`a^`[_aaa_]`
@HWI-EAS443:3:47:745:709#0/1
CGCCGTCTGAGTTCCTCAATGGTGGAACAGATCTTCATGA
+HWI-EAS443:3:47:745:709#0/1
aba`^baaYb`a`abaaaaa^Y`aa`a__^_aa`a_]`
@HWI-EAS443:3:48:320:553#0/1
CGCCGTCTGAGTTCCTCAATGGTGGAACAGATCTTCATGA
+HWI-EAS443:3:48:320:553#0/1
Z`babbabaaabbbbbbbbb`Tbbbbabbaba`^¥bbbb
@HWI-EAS443:3:50:367:549#0/1
CGCCGTCTGAGTTCCTCAATGGTGGAACAGATCTTCATGA
+HWI-EAS443:3:50:367:549#0/1
`b¥_a^baa^a`bbbaabaa¥^]ab`bW_`ab`a``baa`
@HWI-EAS443:3:62:958:1723#0/1
CGCCGTCTGAGTTCCTCAATGGTGGAACAGATCTTCATGA

+HWI-EAS443:3:62:958:1723#0/1
`aaaa^bbaaa__abaabaaa[^a`¥aaaa`_a`aZa`^a
@HWI-EAS443:3:78:521:141#0/1
CGCCGTCTGAGTTCTTCAATGGTGGAACAGATCTTCATGA
+HWI-EAS443:3:78:521:141#0/1
abaab`aa`b`a]a`a``a`]_a_____^^[____Z^[
@HWI-EAS443:3:84:644:624#0/1
CGCCGTCTGAGTTCTTCAATGGTGGAACAGATCTTCATGA
+HWI-EAS443:3:84:644:624#0/1
aabbbababaa_aaaa`aaa`_]`_`aaba_aaaa^a``_`
@HWI-EAS443:3:95:990:160#0/1
CGCCGTCTGAGTTCTTCAATGGTGGAACAGATCTTCATGA
+HWI-EAS443:3:95:990:160#0/1
abb]aabab`b_b_babbbabb_bbababaaa^bb_aaba
@HWI-EAS443:3:96:38:1457#0/1
CGCCGTCTGAGTTCTTCAATGGTGGAACAGATCTTCATGA
+HWI-EAS443:3:96:38:1457#0/1
`_bbbbbb`bb¥HZ`_Z`_Z_bbX^a¥R`_]PYaaaa_^H
@HWI-EAS443:3:31:1094:2036#0/1
GCCGGTTGATTTCTGCTTAATGTCCAATCATAAGTCTGGC
+HWI-EAS443:3:31:1094:2036#0/1
]`_P_Vb``^Xa^a`S`Y^abb```]`_P_ab`PZ_aZ`_`
@HWI-EAS443:3:97:732:272#0/1
TGCCGTTGATTTCTGCTTAATGTCCAATCATAAGTCTGG
+HWI-EAS443:3:97:732:272#0/1
a`a[RW[Z__¥a_ZH_ZS[PP¥ZR`^PX[]`¥TVSVR]_B
@HWI-EAS443:3:25:219:1113#0/1
AGAATTTGGCGCCAAGCAAACAATGGCGAAGATGCAACAG
+HWI-EAS443:3:25:219:1113#0/1
aaabaaaaabaa`_a`aaa]_a¥¥^_____¥¥XR__]W_[
@HWI-EAS443:3:3:1416:1401#0/1
TGCTGTTGCATCTTCGCCATTGTTGCTTGCGCCAAATT
+HWI-EAS443:3:3:1416:1401#0/1
`bbbaa`[``b__Y¥VORGUaNUa``]X[HYZY_OLV]BB
@HWI-EAS443:3:21:259:172#0/1
CGATGCTGGATCAGACCGAGTGATGGTATCACCTCTGGCG
+HWI-EAS443:3:21:259:172#0/1
[a¥`_ab`_IT]_¥aaa_]_Y^BBBBBBBBBBBBBBBBBB
@HWI-EAS443:3:98:312:1703#0/1
GGGCAGCAATAGGGTTGAGGATTAGCTCATCTTTCAGTTT
+HWI-EAS443:3:98:312:1703#0/1
]_Z]_¥`a__^__WQ_bbbZaUSW[]ba`baba]b_b^bb
@HWI-EAS443:3:29:1185:1142#0/1
GGCATGAGCATGGACCAGTCTCGTGACATTTCCCTCGAGGG
+HWI-EAS443:3:29:1185:1142#0/1
_]ba`_a`baa`aaaa__aa_]JYP^^`^`_a_[X^`^X
@HWI-EAS443:3:28:424:390#0/1
GAAAGTGATTCCCAGAGGAAAGCTTTCCACAAGAGGGGTC
+HWI-EAS443:3:28:424:390#0/1
`^a¥b[a`aabaGb_aaWaaa^abaa__aa``_aZ_Y`^_`

@HWI-EAS443:3:99:1497:754#0/1
CTCCAATATGTGTGCTGTGGCACATTTCCAAGAGAGATGC
+HWI-EAS443:3:99:1497:754#0/1
a`T_a`bJ`bT[¥]abbb_[b]a^a^a_FWab¥bYbG_aZ
@HWI-EAS443:3:1:299:1318#0/1
GGGCTGCACACTGATCTGGCCTGCGGATGCCTTTTGTGA
+HWI-EAS443:3:1:299:1318#0/1
`bb`^bUbZa^_a_b^aba_X`U`a^]a_V_aaa_a¥`U¥
@HWI-EAS443:3:89:927:729#0/1
ACCCTGTAGAATCTGTCCACTCCTGCTTGTATTCCCTCAT
+HWI-EAS443:3:89:927:729#0/1
RGV¥b`_¥bbaaaUa`b_NXR_a`^aaS^bb_a¥`^aW]
@HWI-EAS443:3:22:726:1416#0/1
CTAACTTGCAGGCCCTGTAGAATCTGTCCACTCCTGCTTG
+HWI-EAS443:3:22:726:1416#0/1
[^ba__S_Z^[[Y]aa¥Q^U`^_P_JONP``[¥¥UULT_X
@HWI-EAS443:3:61:1258:1305#0/1
CGTCGCTTTCAATCTGTGCCGATTTCTTCAATTANCCAC
+HWI-EAS443:3:61:1258:1305#0/1
_bbab_abaZab`abb`bbbbbbaabbabbabaaa^DFY_S
@HWI-EAS443:3:31:41:191#0/1
GGCGTCGCTTTCAATCTGTGCCGATTTCTTCAATTAACC
+HWI-EAS443:3:31:41:191#0/1
V_ba[¥_aba¥`_`K¥U[¥``WO[]¥RY^WW_W[0^Y]
@HWI-EAS443:3:51:86:137#0/1
CTCGCTTTCAATCTGTGCCGATTTCTTCAATTAACC
+HWI-EAS443:3:51:86:137#0/1
abbbbbbbaabb`baaba^bababb`^ba``Za
@HWI-EAS443:3:1:1614:256#0/1
CGTCGCTTTCAATCTGTGCCGATTTCTTCAATTAACCAC
+HWI-EAS443:3:1:1614:256#0/1
`baaaa`baaaaaab`aaa¥a__aaa^`a]¥Saa``W]_B
@HWI-EAS443:3:27:52:1635#0/1
CGTCGCTTTCAATCTGTGCCGATTTCTTCAATTAACCAC
+HWI-EAS443:3:27:52:1635#0/1
`Zaaa`aa__¥_a^`^^`abaa__a`a`a^S`_X^a__a
@HWI-EAS443:3:30:356:737#0/1
CGTCGCTTTCAATCTGTGCCGATTTCTTCAATTAACCAC
+HWI-EAS443:3:30:356:737#0/1
aZUab`_U]ZU¥__`_L]_a¥a`_a_T`^^Z`_Z^_ZT^_
@HWI-EAS443:3:32:237:1574#0/1
CGTCGCTTTCAATCTGTGCCGATTTCTTCAATTAACCAC
+HWI-EAS443:3:32:237:1574#0/1
a¥_a_a^`a^)`__^W__^^`_^_Z`^^^`_^^__a`_a
@HWI-EAS443:3:35:1468:334#0/1
CGTCGCTTTCAATCTGTGCCGATTTCTTCAATTAACCAC
+HWI-EAS443:3:35:1468:334#0/1
abaababababaaaaaa_baababaaaaaaba_aaaa_b`a
@HWI-EAS443:3:48:963:737#0/1
CGTCGCTTTCAATCTGTGCCGATTTCTTCAATTAACCAC

+HWI-EAS443:3:48:963:737#0/1
ababbbbbbabb`bbabaab_bbbbaabababbaa_`a_
@HWI-EAS443:3:54:175:21#0/1
CGTCGCTTTCAATCTGTGCCGATTTCTTCAATTAACCAC
+HWI-EAS443:3:54:175:21#0/1
ab`abbabbaaaaaab_a`b]¥_aa`aaa`¥aa]U]____
@HWI-EAS443:3:55:349:1930#0/1
CGTCGCTTTCAATCTGTGCCGATTTCTTCAATTAACCAC
+HWI-EAS443:3:55:349:1930#0/1
aaTaaa`aaa`]^__`_^[_]_____^_^_]^_^^^Y]]]
@HWI-EAS443:3:62:1131:1166#0/1
CGTCGCTTTCAATCTGTGCCGATTTCTTCAATTAACCAC
+HWI-EAS443:3:62:1131:1166#0/1
Z_`a`_ba_bbbabba`^`_Z¥abW``aa__abbaa_aaa
@HWI-EAS443:3:74:1519:462#0/1
CGTCGCTTTCAATCTGTGCCGATTTCTTCAATTAACCAC
+HWI-EAS443:3:74:1519:462#0/1
abaababa_Wa]baaa_baab__aaaa_a]_aa^b^^^W
@HWI-EAS443:3:74:424:1185#0/1
CGTCGCTTTCAATCTGTGCCGATTTCTTCAATTAACCAC
+HWI-EAS443:3:74:424:1185#0/1
a¥SVT¥UZ]^TR]YNY]P__TW¥QHRUQQ^YVYSBBBBBB
@HWI-EAS443:3:77:308:262#0/1
CGTCGCTTTCAATCTGTGCCGATTTCTTCAATTAACCAC
+HWI-EAS443:3:77:308:262#0/1
^b`bbaa_aaaaba`aYa`_aaaa_a_a`a``_^aa__Z_
@HWI-EAS443:3:79:1033:421#0/1
CGTCGCTTTCAATCTGTGCCGATTTCTTCAATTAACCAC
+HWI-EAS443:3:79:1033:421#0/1
`b]¥_`^aaa`^`_a]b_a^Xa^]`````]¥a`aaa_YN__
@HWI-EAS443:3:7:957:132#0/1
CGTCGCTTTCAATCTGTGCCGATTTCTTCAATTAACCAC
+HWI-EAS443:3:7:957:132#0/1
ab]aa^_a_aa`a__a_aZ]a]Z`_^_a^^^a_]^[^Z_X
@HWI-EAS443:3:81:1001:1379#0/1
CGTCGCTTTCAATCTGTGCCGATTTCTTCAATTAACCAC
+HWI-EAS443:3:81:1001:1379#0/1
ab[¥^W`a¥Y¥LXa]XWZaab_Y_]Z^`_S]^`^`^N][
@HWI-EAS443:3:81:275:1762#0/1
CGTCGCTTTCAATCTGTGCCGATTTCTTCAATTAACCAC
+HWI-EAS443:3:81:275:1762#0/1
a__Wa_X[[_^_aNHz```_a_Ya]__a^Z^^`¥^`]
@HWI-EAS443:3:87:333:1346#0/1
CGTCGCTTTCAATCTGTGCCGATTTCTTCAATTAACCAC
+HWI-EAS443:3:87:333:1346#0/1
ab_babaaba`Waa```]`aa_b_aaa`aa`__a```^`_`]
@HWI-EAS443:3:89:1374:1714#0/1
CGTCGCTTTCAATCTGTGCCGATTTCTTCAATTAACCAC
+HWI-EAS443:3:89:1374:1714#0/1
ab`bababb`a^ba```]b¥Naaa^b`^bb_a^aaaa__a]

@HWI-EAS443:3:89:683:1162#0/1
CGTCGCTTTCAATCTGTGCCGATTTCTTCAATTAACCAC
+HWI-EAS443:3:89:683:1162#0/1
]baaa`¥ba`b`_a^b[aa_abbbaabbaabbbabababWab
@HWI-EAS443:3:8:1166:1402#0/1
CGTCGCTTTCAATCTGTGCCGATTTCTTCAATTAACCAC
+HWI-EAS443:3:8:1166:1402#0/1
ab``bTaaa^baa`a`Zbaa``aaaa¥aa]a`aa_a]Sa^
@HWI-EAS443:3:17:663:1236#0/1
TGGGCTATTAGTGCAGATGGAGGACCCAACTTATACAAT
+HWI-EAS443:3:17:663:1236#0/1
`bbaaaa`Wb_JHZ`a¥Sa`UX_]VYHL]HQ`_¥`^¥¥`
@HWI-EAS443:3:26:40:1084#0/1
CCTGTGCCGATTTCTTCAATTAACCACCTTATTTCTCA
+HWI-EAS443:3:26:40:1084#0/1
`aW`ab]_^_R^`][_Yb^`[WTWYa^a`ZJYVQ`X]¥^
@HWI-EAS443:3:79:429:1850#0/1
GTCGCTTTCAACCTGTGCCGATTTCTTCAATTAACCACC
+HWI-EAS443:3:79:429:1850#0/1
[O]Z[PORaTLWYXZMO¥¥Q_]Z^]S_Y^[YWPKT[W[W`
@HWI-EAS443:3:5:1606:1699#0/1
ATCTGGAGTAAATGAATCAGCTGACATGAGTATTGGAGTA
+HWI-EAS443:3:5:1606:1699#0/1
abaab]`Taaa^b`aa_a_bYbb`[a`a`b`ba`[_`_a]Y
@HWI-EAS443:3:23:61:322#0/1
CACAAATCCTAGAATTCCTTAGTCAGAGGTGACAAGATT
+HWI-EAS443:3:23:61:322#0/1
a^^`[_`[[aY[T_R^AY`a^^W^OX]]^]SU]PVSU]]WS
@HWI-EAS443:3:67:864:399#0/1
GGATGCAGGTGCATTGACTGAAGATCCAGATGAAGAATCA
+HWI-EAS443:3:67:864:399#0/1
ab_aaaaaT]^baaaaaaaaaa__a__a`_a__a`____
@HWI-EAS443:3:36:523:1301#0/1
GCCGCTTTCTTCAATTGACCACCTTATTTCTCAAATTT
+HWI-EAS443:3:36:523:1301#0/1
aba_a¥^]]a``^R_¥M¥`_aaaa_]aa`a`aa^ZQaa^
@HWI-EAS443:3:85:1222:574#0/1
CCCAGGAATATTTGAGAATTCATGCCTTGAAACAATACGG
+HWI-EAS443:3:85:1222:574#0/1
ababb`Yaa_ababbaa^aa`aaaa^aaaa_`^aa_aY^_
@HWI-EAS443:3:51:137:1638#0/1
AAAGAAATCTCTGTGTCTTGTGAATTGGTCATCATCTTTC
+HWI-EAS443:3:51:137:1638#0/1
abbbbaa]bbbaab_a`b`XXa¥^_a^YSVWXZ^`^a`XP
@HWI-EAS443:3:64:1158:683#0/1
AAGAAATCTCTGTGTCTTGTGAATTGGTCATCATCTTTC
+HWI-EAS443:3:64:1158:683#0/1
a`aZ^bbbaaa^R_`bbaa^aTaaa]`UZZ`[]a`aaa¥a
@HWI-EAS443:3:5:311:1086#0/1
AAAGGCGTAAATCCCAATTACCTCATGGCTTGAAGCAAG

+HWI-EAS443:3:5:311:1086#0/1
[U`¥YPG]_Rba]¥SKaX0^aaJ]I__`X¥PW[BBBBBBB
@HWI-EAS443:3:52:956:377#0/1
CGCCTTTCTCATGTGGTTTGGACTATGTTAGGCTCTTTCCA
+HWI-EAS443:3:52:956:377#0/1
¥_^R__^aa`a[Sa^`b`XSb`^aS^Z]ZV_Z¥baX¥0
@HWI-EAS443:3:70:79:974#0/1
TCCTTTTGCAAGATTGCCAGTTCATTGATGCTTAATGCT
+HWI-EAS443:3:70:79:974#0/1
aabaa`aa`]`a__aa`Z`]`a`^`^`_`__[^]]
@HWI-EAS443:3:95:1226:235#0/1
CAGACTGTTGAGCTTTTCGCAAATGCTCCTAGCTAAAGT
+HWI-EAS443:3:95:1226:235#0/1
Z`a¥^b^``abbababb_^aX`_b`N`X^`bbZbUaa_L
@HWI-EAS443:3:61:808:1538#0/1
CTGGCTGGATCCTGGGAAATCCAGAGTGTGAATCACTCTA
+HWI-EAS443:3:61:808:1538#0/1
abb¥bbV^]bbb__^]b`bbbb[bbbXb`baa__`Y_`¥H
@HWI-EAS443:3:53:226:666#0/1
AGCCAATTGAAGTGGGCACTCGGTGAAAATATAGCACCAG
+HWI-EAS443:3:53:226:666#0/1
a`_`V¥aa¥`VUGZ[]VW[T¥aSV¥RXV^[¥[X¥V¥Z[X]
@HWI-EAS443:3:76:534:1199#0/1
GTAAAGTGAACACTTCAATATAAAGACTACCTGTTCCGC
+HWI-EAS443:3:76:534:1199#0/1
a]UEMPWTJRWJQ]QZXY]YW^[]ODUZIDNWTSTXPLPB
@HWI-EAS443:3:33:156:901#0/1
GTCCAGGCCATGATCCGGTCTCTTCCTTCAATTATCTCAA
+HWI-EAS443:3:33:156:901#0/1
aab``abb`W]b^Q__XYb_ba`aa`a``[``R`aa]`a
@HWI-EAS443:3:92:947:1730#0/1
CGTCCATCATAATCATTGAGTTTGGAGTTCAGTGCACATTT
+HWI-EAS443:3:92:947:1730#0/1
ab`abaaababaa`abaaabaaaaa`ab`a_a_a_aaaa
@HWI-EAS443:3:13:1126:501#0/1
GCTCCCGCTATATCCTGACCACTCATTTATTCCTACGATA
+HWI-EAS443:3:13:1126:501#0/1
a_NXaaaX]__¥¥]]`_^]¥XZ_a`____]_^0Z]]^a_Z^
@HWI-EAS443:3:23:402:1370#0/1
AGAGAGGATGGTGCTTTCTGCTTTTGGATGAAAGAAGAAAT
+HWI-EAS443:3:23:402:1370#0/1
a_QQ]a^a^]XRX`V]¥V¥`R¥`_]FZZ`V]Z[Y__`_^R
@HWI-EAS443:3:36:70:1027#0/1
GGGCCATGTCCATTATTCTCTTGTCTGCTGTAATTGGGTA
+HWI-EAS443:3:36:70:1027#0/1
¥`_baX¥`Z¥_W`_¥^¥aa_`]¥]ab_V^_^Wab¥¥Z_VZ
@HWI-EAS443:3:95:1582:1221#0/1
GGGCCATGTCCATTATTCTCTTGTCTGCTGTAATTGGGTA
+HWI-EAS443:3:95:1582:1221#0/1
abb_¥¥``^babbbb_YTXbbXL]Yb]_b]_]a_Q_aP¥

@HWI-EAS443:3:21:1284:308#0/1
GCCATGTCCATTATTCTCTTGTCTGCTGTAATTGGGTATC
+HWI-EAS443:3:21:1284:308#0/1
aa`[_a__aaaa_aa]`a__^a_]aZZ^`_`_W^YV
@HWI-EAS443:3:58:365:1473#0/1
GATACCCAATTACAGCAGACAAGAGAATAATGGACATGGC
+HWI-EAS443:3:58:365:1473#0/1
a`[aaaab]a`a__a__a`_^_a__[Z_____]^a[^Z]¥^
@HWI-EAS443:3:27:466:303#0/1
AGGGGACGTAGTGTGATAATGAAACGAAAACGGGACTCT
+HWI-EAS443:3:27:466:303#0/1
aba``]bb[aaZW^b____¥a`T^aaY[`aa_ZY`^^^__^
@HWI-EAS443:3:63:1429:1618#0/1
CAATCAACAAAAGGCATCCTCAGGCCAGGTCAAGTGTGCAG
+HWI-EAS443:3:63:1429:1618#0/1
a[Y¥]Q```abSaVTXSSGLIa`¥SS¥BBBBBBBBBBBBB
@HWI-EAS443:3:25:401:1728#0/1
GAGGAAATACCAATCAACAAAAGGCATCCGCAGGCCAGGT
+HWI-EAS443:3:25:401:1728#0/1
aa[aa_^aaab¥]aaZ_b__][_a``WJX¥aaZ]aaVSI
@HWI-EAS443:3:6:828:1885#0/1
AGGGCCTCATATACAACAGGATGGGAACAGTGACTACAGA
+HWI-EAS443:3:6:828:1885#0/1
aa_baa^Z_a¥XJR`Ra¥V]YMU]PM]Pa_LVaTdk^ZX_
@HWI-EAS443:3:33:1775:823#0/1
GCCTGTCCATCACTTGGTCCATCGGTCATTATAGTAAAGC
+HWI-EAS443:3:33:1775:823#0/1
S`^¥baW¥`a`XP¥bbbaaab_¥aaYH``aTFJ`Mza^PG
@HWI-EAS443:3:91:157:596#0/1
CACCAATTGACTTTTTGTGAGCTGGGCTTTCATTTGGTCTC
+HWI-EAS443:3:91:157:596#0/1
`[b`Va[^aabba`][a]aaaa]`G____¥`]U[¥PX]XZ
@HWI-EAS443:3:100:868:538#0/1
GCCTGATGAGACCAAATGAAAACCCAGCTCACAAAAGTCA
+HWI-EAS443:3:100:868:538#0/1
a__aaa__aaa`_a__aaa`a_]_]a[_W_Z_]Z_Z^B
@HWI-EAS443:3:14:748:1478#0/1
CAGCCTGATGAGACCAAATGAAAACCCAGCTCACAAAAGT
+HWI-EAS443:3:14:748:1478#0/1
a`aa_a^aa`b`aaab^abaa__ba`_aa^_`]`aaa_NR
@HWI-EAS443:3:16:831:598#0/1
GGTCAGCCTGATGAGACCAAATGAAAACCCAGCTCACAAA
+HWI-EAS443:3:16:831:598#0/1
aa_abaabab`abaa`a`a`aaa``aaaZ]_`^_]a_a_]`
@HWI-EAS443:3:17:658:998#0/1
ACTTTTGTGAGCTGGGTTTTTCTTTTGGTCTCATCAGGCTG
+HWI-EAS443:3:17:658:998#0/1
`bbaaa`ab`aaaaab_a__`aaa`a¥aaab`_aa`_a`
@HWI-EAS443:3:17:798:1212#0/1
GCCTGATGAGACCAAATGAAAACCCAGCTCACAAAAGTCA

+HWI-EAS443:3:17:798:1212#0/1
aaaaaa`a___aaa]aaa``_a`_^_a`_^__^_]_a]_Z
@HWI-EAS443:3:18:1190:654#0/1
CACCAATTGACTTTTGTGAGCTGGGTTTTTCATTTGGTCTC
+HWI-EAS443:3:18:1190:654#0/1
WOV^T`bbb[^SXVX`_````ab__Y^`]]][aW[`aX_`T
@HWI-EAS443:3:1:164:1217#0/1
GATGAGACCAAATGAAAACCCAGCTCACAAAAGTCAATTG
+HWI-EAS443:3:1:164:1217#0/1
a_aaaaa_a`aaaa``_a]Y`_a`¥^^a`__`Z^^]`BB
@HWI-EAS443:3:21:1720:304#0/1
CTTTTGTGAGCTGGGTTTTTCATTTGGTCTCATCAGGCTGA
+HWI-EAS443:3:21:1720:304#0/1
abbbbabbbba`baa_aab[aaaaaa_aa`ab_`a`]aa`
@HWI-EAS443:3:23:1430:310#0/1
CTTTTGTGAGCTGGGTTTTTCATTTGGTCTCATCAGGCTGA
+HWI-EAS443:3:23:1430:310#0/1
`bbbbbabbaabbaa^bbaZ`babb]`aaaaaaaaaUb`a
@HWI-EAS443:3:25:316:785#0/1
CTGATGAGACCAAATGAAAACCCAGCTCACAAAAGTCAAT
+HWI-EAS443:3:25:316:785#0/1
abbb_bbbbbabbabbbba`bbbabbaabbbb_bbYaaba
@HWI-EAS443:3:26:915:1227#0/1
GCCTGATGAGACCAAATGAAAACCCAGCTCACAAAAGTCA
+HWI-EAS443:3:26:915:1227#0/1
``b```_]¥Q]abbbbaabZ_¥a]]ab]aa_baaa_b]aW
@HWI-EAS443:3:27:66:1172#0/1
TGATGAGACCAAATGAAAACCCAGCTCACAAAAGTCAATT
+HWI-EAS443:3:27:66:1172#0/1
``]¥]a^S`b_I_bbb__¥a``_a_baaa^MUSF_____a
@HWI-EAS443:3:28:152:1324#0/1
ACTTTTGTGAGCTGGGTTTTTCATTTGGTCTCATCAGGCTG
+HWI-EAS443:3:28:152:1324#0/1
`baaaaa__^`ba`_^`aab_aa`a]Ya`aa_aa]^aW_
@HWI-EAS443:3:2:940:1287#0/1
GACTTTTGTGAGCTGGGTTTTTCATTTGGTCTCATCAGGCT
+HWI-EAS443:3:2:940:1287#0/1
aZP]Z]__I¥0`a`_X]NFV[SV]Z¥^`NT]VZUYUOBBB
@HWI-EAS443:3:30:59:524#0/1
GATGAGACCAAATGAAAACCCAGCTCACAAAAGTCAATTG
+HWI-EAS443:3:30:59:524#0/1
aaaaaaaaaba`aaa_aa`aa¥aa____`_X[¥]Z`¥__^^
@HWI-EAS443:3:33:622:252#0/1
GCCTGATGAGACCAAATGAAAACCCAGCTCACAAAAGTCA
+HWI-EAS443:3:33:622:252#0/1
¥^RTXPXIRX^[X]^S¥X[Xaa^aVZaT[_UNSY[S^R
@HWI-EAS443:3:35:1139:328#0/1
CACCAATTGACTTTTGTGAGCTGGGTTTTTCATTTGGTCTC
+HWI-EAS443:3:35:1139:328#0/1
abbbbaabbaabbbbbb]bababbbba¥baab`baaaa_a`a

@HWI-EAS443:3:35:1720:1424#0/1
CTGATGAGACCAAATGAAAACCCAGCTCACAAAAGTCAAT
+HWI-EAS443:3:35:1720:1424#0/1
¥b[Kbbb`^^a¥bbab_bbaabbU_WY^_Saba^aYZ[
@HWI-EAS443:3:35:483:1570#0/1
TTTGTGAGCTGGGTTTTCATTTGGTCTCATCAGGCTGACC
+HWI-EAS443:3:35:483:1570#0/1
`ba`aa`^^W¥T]]aaa]_¥^XYW]^LU_YY_a]¥¥Za
@HWI-EAS443:3:37:949:1463#0/1
GACTTTTGTGAGCTGGGTTTTCATTTGGTCTCATCAGGCT
+HWI-EAS443:3:37:949:1463#0/1
a`aaaabba_`a`aba`aaaaabaaa]]Uabbabaa_a`
@HWI-EAS443:3:39:1754:1266#0/1
CACCAATTGACTTTTGTGAGCTGGGTTTTCATTTGGTCTC
+HWI-EAS443:3:39:1754:1266#0/1
abbababbbaabbbba_bab_abab_`bb`a^`a_Z`a¥
@HWI-EAS443:3:45:1024:486#0/1
CACCAATTGACTTTTGTGAGCTGGGTTTTCATTTGGTCTC
+HWI-EAS443:3:45:1024:486#0/1
^bb]aab`bbabbbbababXbbbb_`bbaabaabaaaa
@HWI-EAS443:3:47:1501:942#0/1
GCCTGATGAGACCAAATGAAAACCCAGCTCACAAAAGTCA
+HWI-EAS443:3:47:1501:942#0/1
a]]_aaa`X`I_a¥Y_aa^^`_¥_`^`[_YX[[W_WZV
@HWI-EAS443:3:52:1779:693#0/1
GCCTGATGAGACCAAATGAAAACCCAGCTCACAAAAGTCA
+HWI-EAS443:3:52:1779:693#0/1
aaabYaaWQTUa`¥U[XTUPTY]UPYVNWVZY]^¥VQ]¥]
@HWI-EAS443:3:54:1064:1556#0/1
ATTGACTTTTGTGAGCTGGGTTTTCATTTGGTCTCATCAG
+HWI-EAS443:3:54:1064:1556#0/1
aaaa`^baaaa_`[a`aa_aVaaa__a`aa]¥__`_^`_`
@HWI-EAS443:3:56:1314:647#0/1
ATTGACTTTTGTGAGCTGGGTTTTCATTTGGTCTCATCAG
+HWI-EAS443:3:56:1314:647#0/1
aa`R`abbbb`_aaa__bba]aaa^aaaaa]_`a_aa^a`
@HWI-EAS443:3:57:305:1606#0/1
GGTCAGCCTGATGAGACCAAATGAAAACCCAGCTCACAAA
+HWI-EAS443:3:57:305:1606#0/1
ZQWT^[`b^_OT^^YX¥M]SVZ]ZaZVQY]aZOV]BBBBB
@HWI-EAS443:3:60:86:1372#0/1
TTTGTGAGCTGGGTTTTCATTTGGTCTCATCAGGCTGACC
+HWI-EAS443:3:60:86:1372#0/1
a`b`_a^baaaa_Zaaaaaaa`_]a`b`__^]^^`_`_`
@HWI-EAS443:3:62:1430:1574#0/1
GTCAGCCTGATGAGACCAAATGAAAACCCAGCTCACAAA
+HWI-EAS443:3:62:1430:1574#0/1
T``¥a_aaa_a```a`[_aa_a`__¥^`W^M^^`_`_`
@HWI-EAS443:3:63:1012:1939#0/1
GATGAGACCAAATGAAAACCCAGCTCACAAAAGTCAATTG

+HWI-EAS443:3:63:1012:1939#0/1
a]a`a_aaZba`Z`aababba[aaaba]`_]a]Ta`aa`]
@HWI-EAS443:3:63:882:1738#0/1
GATGAGACCAAATGAAAACCCAGCTCACAAAAGTCAATTG
+HWI-EAS443:3:63:882:1738#0/1
`Z¥_aaabbabbaaaaba`aZ`aba^aa__^^`_`a``
@HWI-EAS443:3:64:1081:1878#0/1
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+HWI-EAS443:3:64:1081:1878#0/1
`aaa`___X_a¥__a`aa^0_aa`_]`a_W]_^_Z[a[
@HWI-EAS443:3:64:1324:1024#0/1
CTTTTGTGAGCTGGGTTTTTCATTTGGTCTCATCAGGCTGA
+HWI-EAS443:3:64:1324:1024#0/1
abbbb_bab`bbaba_bbb_bbabaa`aaaaabab``abb
@HWI-EAS443:3:64:552:196#0/1
GGTCAGCCTGATGAGACCAAATGAAAACCCAGCTCACAAA
+HWI-EAS443:3:64:552:196#0/1
aa]aab_abaaaaa`^^a__`a`_a`^[V^`__`__^]
@HWI-EAS443:3:65:1431:1761#0/1
GACTTTTGTGAGCTGGGTTTTTCATTTGGTCTCATCAGGCT
+HWI-EAS443:3:65:1431:1761#0/1
aaaabaaaUaaX]aabbQ^a_V^_] [a_Jaaaa_^[^S[[
@HWI-EAS443:3:67:1212:1425#0/1
CACCAATTGACTTTTGTGAGCTGGGTTTTTCATTTGGTCTC
+HWI-EAS443:3:67:1212:1425#0/1
``ababba^_¥¥^aaWZb^Y`ab`b_`b¥^ba_a]aab_
@HWI-EAS443:3:6:587:1215#0/1
GACTTTTGTGAGCTGGGTTTTTCATTTGGTCTCATCAGGCT
+HWI-EAS443:3:6:587:1215#0/1
aY[X[PZHM^`XV]aY_U_ZYYYSTR[_¥WV^] ^S]__U_
@HWI-EAS443:3:70:1354:938#0/1
CACCAATTGACTTTTGTGAGCTGGGTTTTTCATTTGGTCTC
+HWI-EAS443:3:70:1354:938#0/1
^a[aa¥__a``bb`W`R`]`Wa`a]b]abbb^V]TZa
@HWI-EAS443:3:71:1540:1874#0/1
GTCAGCCTGATGAGACCAAATGAAAACCCAGCTCACAAAA
+HWI-EAS443:3:71:1540:1874#0/1
aa`__^_]ZW[`X[[]``````¥`^¥XZ¥[Y¥[Q_ZVT
@HWI-EAS443:3:71:798:1617#0/1
CTTTTGTGAGCTGGGTTTTTCATTTGGTCTCATCAGGCTGA
+HWI-EAS443:3:71:798:1617#0/1
aaa`^TWOZ`^a]a_P_Z[^X][_`^N_]b_P^a¥`aa_a
@HWI-EAS443:3:73:224:315#0/1
GACTTTTGTGAGCTGGGTTTTTCATTTGGTCTCATCAGGCT
+HWI-EAS443:3:73:224:315#0/1
a^_a`aaa`a`^aa^aU_aa`_a_^`W_`_a^Z^`^X_
@HWI-EAS443:3:74:1170:1788#0/1
GACTTTTGTGAGCTGGGTTTTTCATTTGGTCTCATCAGGCT
+HWI-EAS443:3:74:1170:1788#0/1
abbbbabbV_abaabbb¥`bbbbbabba`ab`baab__a`

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GCCTGATGAGACCAAATGAAAACCCAGCTCACAAAAGTCA
+HWI-EAS443:3:74:483:1256#0/1
ab¥[^][aZ]XU]]X_^Q^^`aaS^[SYaaaWR]¥XRZU
@HWI-EAS443:3:75:1026:988#0/1
TTTGTGAGCTGGGTTTTTCATTTGGTCTCATCAGGCTGACC
+HWI-EAS443:3:75:1026:988#0/1
aa`a_b`¥`aa``]aaa`aaaa_Z^a_a`_a`^`_a`_a
@HWI-EAS443:3:75:94:284#0/1
GACTTTTGTGAGCTGGGTTTTTCATTTGGTCTCATCAGGCT
+HWI-EAS443:3:75:94:284#0/1
a_a^Yaa``_Ka^Z_]aYaa````a_^Ta_^_Ya__[^]
@HWI-EAS443:3:76:102:1818#0/1
CTTTTGTGAGCTGGGTTTTTCATTTGGTCTCATCAGGCTGA
+HWI-EAS443:3:76:102:1818#0/1
aa¥aa````aaa^Z¥Maa¥_0[aaQDP__aa__aVXV_^_
@HWI-EAS443:3:7:118:343#0/1
GACTTTTGTGAGCTGGGTTTTTCATTTGGTCTCATCAGGCT
+HWI-EAS443:3:7:118:343#0/1
a[Za[baa__`aaaaaaSV¥^`Y_`a^^`^_`_]`_]R[^
@HWI-EAS443:3:7:154:418#0/1
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+HWI-EAS443:3:7:154:418#0/1
aa]]YSW]]aYaa_TZYWRWPL[ZYZ^LRU[^SPVW^RZB
@HWI-EAS443:3:80:495:1561#0/1
CTGATGAGACCAAATGAAAACCCAGCTCACAAAAGTCAAT
+HWI-EAS443:3:80:495:1561#0/1
a_baaba]aaaa`aaaaaaaabaaa__a_a[aaaU_^_`
@HWI-EAS443:3:81:1312:1681#0/1
GATGAGACCAAATGAAAACCCAGCTCACAAAAGTCAATTG
+HWI-EAS443:3:81:1312:1681#0/1
aaabaaaaaaabaaaaab`_`aaa_[`]a`__aX_`_`_`
@HWI-EAS443:3:83:1147:322#0/1
GCCTGATGAGACCAAATGAAAACCCAGCTCACAAAAGTCA
+HWI-EAS443:3:83:1147:322#0/1
`a^SQZZU¥Y_^]U^a`Z___Y^_`_`¥]XUYQV`RY]
@HWI-EAS443:3:83:1541:1114#0/1
ATTGACTTTTGTGAGCTGGGTTTTTCATTTGGTCTCATCAG
+HWI-EAS443:3:83:1541:1114#0/1
a`W]VaV]P``_WMVSQZ^PTZ[U^S¥UW_ZOM[R^]WOT
@HWI-EAS443:3:84:650:1726#0/1
GACTTTTGTGAGCTGGGTTTTTCATTTGGTCTCATCAGGCT
+HWI-EAS443:3:84:650:1726#0/1
aabaaaaa_a`a`_^a^Taa`a`_`¥QQR__`aXa_ZV¥_
@HWI-EAS443:3:85:1623:1386#0/1
GGTCAGCCTGATGAGACCAAATGAAAACCCAGCTCACAAA
+HWI-EAS443:3:85:1623:1386#0/1
`[]aaaY[`a`aa]a^¥S__^a^`_^Y0[`^a^]]^_`XY
@HWI-EAS443:3:88:803:592#0/1
GCCTGATGAGACCAAATGAAAACCCAGCTCACAAAAGTCA

+HWI-EAS443:3:88:803:592#0/1
_aabbabbbaa^`a^`bb_R_baa`[a_^^`ZW_[¥_U`_
@HWI-EAS443:3:91:1154:415#0/1
GATGAGACCAAATGAAAACCCAGCTCACAAAAGTCAATTG
+HWI-EAS443:3:91:1154:415#0/1
¥]V`^aaYZ_WL¥¥X_`]^ab`^S`a`^SS]UXQ^_[__¥
@HWI-EAS443:3:91:468:1714#0/1
GCCTGATGAGACCAAATGAAAACCCAGCTCACAAAAGTCA
+HWI-EAS443:3:91:468:1714#0/1
aaa][`Z[^`_]`_`_a]_a^a]]`^____Y[_^Q]^V¥_
@HWI-EAS443:3:92:157:1025#0/1
TTTGTGAGCTGGGTTTTTCATTTGGTCTCATCAGGCTGACC
+HWI-EAS443:3:92:157:1025#0/1
aaaa_`aa__a`a]`aaa_a__a_]a`_`_a_a`__^__^]
@HWI-EAS443:3:98:179:342#0/1
ACCAATTGACTTTTGTGAGCTGGGTTTTTCATTTGGTCTCA
+HWI-EAS443:3:98:179:342#0/1
aR`__aba`V[a_a_N^`_`aaa`V[`ZW¥^`^`^`[T]_]]
@HWI-EAS443:3:98:582:80#0/1
GACTTTTGTGAGCTGGGTTTTTCATTTGGTCTCATCAGGCT
+HWI-EAS443:3:98:582:80#0/1
a_abbbbababababbbb[aba__aaaa_`_]aa]aa_^a
@HWI-EAS443:3:86:453:1332#0/1
GGTAAAATGGACGAAACACAAGGGTTGCTTATGAAAGAA
+HWI-EAS443:3:86:453:1332#0/1
`b¥aaabaaba^aaa]GSYT^¥]]_X]____]^____WYY]]
@HWI-EAS443:3:2:417:879#0/1
GAACAAGGACAGACCCTCTGGAGCAAAACAAACGATGCTG
+HWI-EAS443:3:2:417:879#0/1
a____`¥aaTW`^[UU¥¥[^_UV_¥XX[VLY_US^S[¥^BB
@HWI-EAS443:3:24:1767:420#0/1
CCCATGGCTGTATGGAGGATCTCCAGTATAAGGGAATGTG
+HWI-EAS443:3:24:1767:420#0/1
`baabababba`a_aZabQ[Q¥U_`^a^`_Z_aabQ^[ZU`
@HWI-EAS443:3:4:293:1443#0/1
GTGGGTTGGTCTTGGCCAGACGGTGCTGAGTTGCCGTTTA
+HWI-EAS443:3:4:293:1443#0/1
`Za]¥HVNHEV_¥YXRU_`_S`^KVVN^_`_W¥¥W[PU^BB
@HWI-EAS443:3:97:1442:191#0/1
AAAAATTCGACACTAATTGATGGCCATCAGAATTCTTTTG
+HWI-EAS443:3:97:1442:191#0/1
]XF^aXLYa]]ZV_b`a_[_`_`KPRJKDOYY`XFY___B
@HWI-EAS443:3:49:1493:51#0/1
CAACACTACGTCCCCTTGCCCAATTAGTACATTAGCTTTC
+HWI-EAS443:3:49:1493:51#0/1
abbabbb`_b_]__ba_Z_OW[a]^SXGNaaa^]_PXaa]
@HWI-EAS443:3:93:60:402#0/1
AGCTAATGTACTAATTGGGCAAGGGGACGTAGTGTGGTA
+HWI-EAS443:3:93:60:402#0/1
`bb_ZZZ`SaZa][ba]`a^X¥`¥aaXaa__ZOZZ][` []

@HWI-EAS443:3:61:555:259#0/1
GGAGGCGCTGCCTTTTTCAGTCTCTTCAGCAGATTGAGAG
+HWI-EAS443:3:61:555:259#0/1
aaX`_`a^QTW¥WHR^`V^UZ¥_W¥QRTN[TYYWWWQU
@HWI-EAS443:3:34:571:1608#0/1
CATTAATCAGGCACTCCTCGATTGCTTCATATAGCCCCAC
+HWI-EAS443:3:34:571:1608#0/1
]_Z___^]XSL_¥_XY`UQZOVF[YZ]WZS¥[[MDPB BBB
@HWI-EAS443:3:69:419:485#0/1
TGGGGCTATATGAAGCAATCGAGGAGTGCCTGATTAATGA
+HWI-EAS443:3:69:419:485#0/1
UXT]aZZQ^`^`Z¥_Zaa`_I_]O_Pa^[`¥R_`a`]_Z
@HWI-EAS443:3:77:178:1373#0/1
TGGGGCTATATGAAGCAATCGAGGAGTGCCTGATTAATGA
+HWI-EAS443:3:77:178:1373#0/1
aaabababaaaaba`a^`_`a]]aW[X_a_`[^^]`_Y__
@HWI-EAS443:3:18:1389:876#0/1
TGACCAAAATTTGATTATCGCTACTAGAAACATAGTAAGA
+HWI-EAS443:3:18:1389:876#0/1
abaa___YV]baa]aaa`_a[^MW`^_]`^`_`a^]]]`^`_
@HWI-EAS443:3:58:874:908#0/1
CTCCGATTGGCCATGTTTTCGATTTGTTTTCAAAGAATTC
+HWI-EAS443:3:58:874:908#0/1
a¥a[a^aaaY]^`^`P]]FWZX^a^aaaaR`]V¥WR]a¥
@HWI-EAS443:3:23:964:385#0/1
AATCACTCAATGAGTGACATCGAAGCCATGGCACCTTAAA
+HWI-EAS443:3:23:964:385#0/1
aaaaa_aaa^aa_`Zaa^a`^Z`^^U]^`___UUWW___]W]
@HWI-EAS443:3:54:778:787#0/1
CTCATTGTTGGCAAAGAAGACAAGAGATATGGCCCTGTCA
+HWI-EAS443:3:54:778:787#0/1
aabbbaababab`aaaaaba_bbbabaaaaa``¥a`__G
@HWI-EAS443:3:81:1188:800#0/1
CATCAGTTAAGAAAGAAGAAGTGTAAACGGGCAACCT
+HWI-EAS443:3:81:1188:800#0/1
aZa^W¥RJ___^V``¥UY^_]]]^X¥¥R¥`_VZ¥ZG]XVHV
@HWI-EAS443:3:3:645:134#0/1
GGGGGGTGTATGAAGCAATCGAGGAGTGCCTGATTAATG
+HWI-EAS443:3:3:645:134#0/1
_[]_a]GXaSP[]SG¥¥SUSS]S^PU^WUJW¥WTPUBBB
@HWI-EAS443:3:45:30:514#0/1
CAGGGATCATTAAATCAGGCACTCCTCGATTGCTTCATACA
+HWI-EAS443:3:45:30:514#0/1
aa]VYZ_`^W_¥^SZSU^ZTZVURZUT[UYRH[ZWZ^BBB
@HWI-EAS443:3:2:1022:254#0/1
GGGGGGCTGTATGAAGCAATCGAGGAGTGCCTGGTTAATG
+HWI-EAS443:3:2:1022:254#0/1
ab`a]¥a_a_]_¥[[JFX_S[_ZX_UQF¥¥¥^¥[XSRPVXB
@HWI-EAS443:3:1:745:1027#0/1
GGGGGGCTATATGAAGCAATCGAGGAGTGCCTGGTTAATGA

@HWI-EAS443:3:86:343:1593#0/1
ACTCCAGATTCTGGTTGAAAGACACCCACGGCCGATTTCGA
+HWI-EAS443:3:86:343:1593#0/1
XHW_b`T`WVb_`VU`b`_Xb`bb^]`aa[D[]MYaTW¥
@HWI-EAS443:3:86:388:1813#0/1
AAGACACCCACGGCCGATTTCGAGCCATGCCAGTTATCCCT
+HWI-EAS443:3:86:388:1813#0/1
^`^a_Z]b_`_¥OH^]SWQ_¥Z_]^JJWaPQORKT¥^^`M
@HWI-EAS443:3:30:1328:1503#0/1
CGATCTCGGCTTTGAGGGGGCCTGACGGGGTGATAGAAAG
+HWI-EAS443:3:30:1328:1503#0/1
aa_JW]]__a^`[[R`Z_a^[`XMXM_``IYUSDVTOUTB
@HWI-EAS443:3:59:115:491#0/1
CGCGATCTCGGCTTTGAGGGGGCCTGACGGGGTGATAGAA
+HWI-EAS443:3:59:115:491#0/1
`aaa_aaaaa_`aa`a¥aa_`_^`¥XXZ`_¥K__OFX^[Z
@HWI-EAS443:3:48:333:1722#0/1
GGATGATGATGGGCATGTCTAACATGCTAANTACGGTCTT
+HWI-EAS443:3:48:333:1722#0/1
ab``^aWRZa[``^Z`aYXa[[XZ^¥^ZYXDH¥SUZV¥]W
@HWI-EAS443:3:42:1446:1808#0/1
TGATGATGGGCATGTTTAAACATGCTAAGTACGGTCTTGGG
+HWI-EAS443:3:42:1446:1808#0/1
aaWa]`aaaa^aaa_aaa_^`a0a^a_]aZa_R¥a_``^
@HWI-EAS443:3:9:581:1634#0/1
TGATGATGGGCATGTTTAAACATGCTAAGTACGGTCTTGGG
+HWI-EAS443:3:9:581:1634#0/1
]_¥aaaaa[a^ba`aa`aaa^a_aaaa_`_a_]a_a[Y_
@HWI-EAS443:3:9:960:156#0/1
ATGATGATGGGCATGTTTAAACATGCTAAGTACGGTCTTGG
+HWI-EAS443:3:9:960:156#0/1
abbabababaaa_aa]````^____]`_^_Z_Z`^ZZ^^`]
@HWI-EAS443:3:26:235:947#0/1
CAAGACCGTACTTAGCATGTTAAACATGCCCATCATCATC
+HWI-EAS443:3:26:235:947#0/1
a¥]`aaaa`a`_a^aaaa`aaa_a^^a_a__``^a__a
@HWI-EAS443:3:50:24:1962#0/1
GGATGATGATGGGCATGTTTAAACATGCTAAGTACGGTCTG
+HWI-EAS443:3:50:24:1962#0/1
]_X]aZ¥Wa_XYT^aa¥WU]`_]Z_^a^]X¥]`_]UTY_
@HWI-EAS443:3:64:1134:488#0/1
CGGGATGATGATGGGCATGTTTAAACATGCTAAGTACGGTC
+HWI-EAS443:3:64:1134:488#0/1
`aaaHZU`_b`[a[¥^[T¥_aaa_]a`¥a^aaP^VZUPH
@HWI-EAS443:3:93:1292:2027#0/1
GACCGTACTTAGCATGTTAAACATGCCCATCATCATCCA
+HWI-EAS443:3:93:1292:2027#0/1
aaab`_]`a_aa_aaaaa`a_a¥`_YJ¥a_`^^_¥VYQ]
@HWI-EAS443:3:17:1617:1730#0/1
GGGATGATGATGGGCATGTTTAAACATGCTAAGTACGGTCT

+HWI-EAS443:3:17:1617:1730#0/1
aba`b`^a]`aa`a`aaa`aa^a[a_a^aa_^]`Y`aXR_
@HWI-EAS443:3:18:1624:509#0/1
GGGATGATGATGGGCATGTTTAAACATGCTAAGTACGGTCT
+HWI-EAS443:3:18:1624:509#0/1
`¥`][`Y^][0][SV[^SUBBBBBBBBBBBBBBBBBBBB
@HWI-EAS443:3:24:843:432#0/1
GGGATGATGATGGGCATGTTTAAACATGCTAAGTACGGTCT
+HWI-EAS443:3:24:843:432#0/1
a`¥]Z_Z_aa`a`[UTM^^`U`aU_^^X¥]]aS^R`_U[_
@HWI-EAS443:3:27:646:71#0/1
GGGATGATGATGGGCATGTTTAAACATGCTAAGTACGGTCT
+HWI-EAS443:3:27:646:71#0/1
`bbabbabbbabaaa`aa_aba`]a_a`a`_]a_a_WZ`
@HWI-EAS443:3:55:145:108#0/1
GGGATGATGATGGGCATGTTTAAACATGCTAAGTACGGTCT
+HWI-EAS443:3:55:145:108#0/1
aaa^_a__a`_`^`^`^aY^^`]^]_V^]X^X¥Y__YY^
@HWI-EAS443:3:61:647:323#0/1
GGATGATGATGGGCATGTTTAAACATGCTAAGTACGGTCTT
+HWI-EAS443:3:61:647:323#0/1
a_Waa`¥`][¥HL_Y_ZU_`¥VYXXQNM^MUWVTQM JWYY
@HWI-EAS443:3:70:52:655#0/1
GGGATGATGATGGGCATGTTTAAACATGCTAAGTACGGTCT
+HWI-EAS443:3:70:52:655#0/1
W`_RX`abb^^^^_ab`Zba^I]`_X_[Y`_¥aaaYY`Y
@HWI-EAS443:3:71:1632:1921#0/1
GGGATGATGATGGGCATGTTTAAACATGCTAAGTACGGTCT
+HWI-EAS443:3:71:1632:1921#0/1
aaZW`a_aa`]a_]`a`W`___^[_`a_Z_U`^[UQU[
@HWI-EAS443:3:77:638:1898#0/1
GGGATGATGATGGGCATGTTTAAACATGCTAAGTACGGTCT
+HWI-EAS443:3:77:638:1898#0/1
N[`[bbb`^¥`a`aabb`Ybb`ab`a_b_ab` `baba^_Z
@HWI-EAS443:3:94:1256:430#0/1
GGGATGATGATGGGCATGTTTAAACATGCTAAGTACGGTCT
+HWI-EAS443:3:94:1256:430#0/1
aba` `aaab`aa__`_ba_```a_a`W`_`a]a_dWHV`
@HWI-EAS443:3:94:933:515#0/1
GGGATGATGATGGGCATGTTTAAACATGCTAAGTACGGTCT
+HWI-EAS443:3:94:933:515#0/1
[X]_aa`bbaaa_a¥aaaaa_`_]`_a^aa`Ra]a_Y]a
@HWI-EAS443:3:96:1306:1815#0/1
GGATGATGATGGGCATGTTTAAACATGCTAAGTACGGTCTT
+HWI-EAS443:3:96:1306:1815#0/1
a` `a` `[`a_]`T^aa`^_]¥_^U`__[W_U_]ST^_
@HWI-EAS443:3:96:1745:796#0/1
GGATGATGATGGGCATGTTTAAACATGCTAAGTACGGTCTT
+HWI-EAS443:3:96:1745:796#0/1
`]X`_aX¥aXUU^_UQ]QX__Y[¥]W¥V¥¥WS_¥S¥BBBB

@HWI-EAS443:3:97:336:973#0/1
GGGATGATGATGGGCATGTTTAAACATGCTAAGTACGGTCT
+HWI-EAS443:3:97:336:973#0/1
aa`__`_`a`X`^^¥__aZ`__¥¥¥_]¥^_¥_W^W_¥WU^
@HWI-EAS443:3:57:1319:1351#0/1
GCGGGGAGTCTTCGAGCTCTCGGACGAAAAGGCTACGAAC
+HWI-EAS443:3:57:1319:1351#0/1
a`_W]¥XYZaa`^aY`^`Y^Ya[¥]aRY^¥X]XX¥S¥VBB
@HWI-EAS443:3:80:1377:1883#0/1
GACCATCGTCAAAATCCACAGCACTNTGCTGTTCCCTGTTG
+HWI-EAS443:3:80:1377:1883#0/1
O[UaZ[YUFH]ND[PTOWO[¥PUUMDU^DDUYU^OXYKPT
@HWI-EAS443:3:18:1203:2004#0/1
GACAAAATGACCATCGTCAACATCCACAGCACTCTGCCGT
+HWI-EAS443:3:18:1203:2004#0/1
^^`_`bbba[a¥]X¥S¥Yb)`a`P`b` `[`]ab]XRDxz
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ababb`bbbbbbbabbaabaaaabbbababb`aabaa`a
@HWI-EAS443:3:95:1318:975#0/1
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+HWI-EAS443:3:95:1318:975#0/1
[Z`RQ]UP[¥¥I¥[ZVX_]Y[Y`a[TTZJYD[Z¥SVS^P
@HWI-EAS443:3:8:449:373#0/1
GCAGGTCAAATATATTCAATATGGGGAGAATAAAAAGAACT
+HWI-EAS443:3:8:449:373#0/1
a_W`aY`Zaa`_Y¥`^`^X^Z` ``_]_0aPN¥`]]^`[^S`
@HWI-EAS443:3:34:1305:2020#0/1
AGCAGGTCAAATATATTCAATATGGGGAGAATAAAAAGAAC
+HWI-EAS443:3:34:1305:2020#0/1
aa`_aa[abbbbaabaaa`aaaa^RG¥_aa`^`^`[^U[
@HWI-EAS443:3:80:1783:910#0/1
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+HWI-EAS443:3:80:1783:910#0/1
a`GKMX^^`S¥a^_W[^`^`^`_¥¥U_]W_]V_Y^__Z
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+HWI-EAS443:3:58:1620:658#0/1
_bb_H_^Z[bb^_X`b`bbaa_aP[^NGSZ_]¥`aa`][a
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+HWI-EAS443:3:16:1774:1694#0/1
a`^bb^¥WZ]bb`a`¥`[^aYWRD¥Za]Z`ZS_WDT`^ [K
@HWI-EAS443:3:77:75:117#0/1
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+HWI-EAS443:3:77:75:117#0/1
_NW_Y` [U_QTLYPQWYDDK¥QWY^W¥QYYYY¥GTYYSUT
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+HWI-EAS443:3:48:399:358#0/1
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+HWI-EAS443:3:84:659:1379#0/1
XX`W`W`a^^_S]]a`QU`^a]_a`aZX[`YXP]`WUZ`
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+HWI-EAS443:3:27:1074:1259#0/1
^_`aaZYXY_U]_U[Z_^XGWW[X]^a_aSYUXX^[J]L
@HWI-EAS443:3:66:924:213#0/1
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+HWI-EAS443:3:66:924:213#0/1
aabbbbZ^a]_Z]^X[UV_ZH^X]_[]]^`YX`W`_`NRL
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+HWI-EAS443:3:83:582:1561#0/1
ab`]bYX]W`W`L[_a]_Saa[_a[a`_`_`UZ^]G
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+HWI-EAS443:3:61:1491:1295#0/1
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+HWI-EAS443:3:46:249:861#0/1
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+HWI-EAS443:3:44:285:345#0/1
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@HWI-EAS443:3:19:630:1052#0/1
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aR`Iaa`aa^[VFTWa`U```^RZ`U[`X`^X`^U
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`Y_bb`[VaZ]Rbb```a`^]V`aa0__a`^`PH`VJJS^
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+HWI-EAS443:3:56:1079:1326#0/1
aaa`aaaaabaabaaaaaaaaa_aaa`a_aaa`a``a`^`
@HWI-EAS443:3:3:593:1464#0/1
CTGTTCGCATGTCCGATGTCCGTCCTTCATTGTTTCCGCC
+HWI-EAS443:3:3:593:1464#0/1
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@HWI-EAS443:3:78:65:1228#0/1
CAGGTCCAAGGTCATTGTTTATCATGTTATTCTTTATCAC
+HWI-EAS443:3:78:65:1228#0/1
aa_a^bba_aa`aaa_P[a`_`aaa_^[_`_aaa__`^`^`

@HWI-EAS443:3:32:23:907#0/1
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+HWI-EAS443:3:32:23:907#0/1
`]X_]_X^_abaaaa_K]a_^`a`^`a`¥a`^][]a[a
@HWI-EAS443:3:81:375:1642#0/1
TGCGGGGTTCTTCTTGTCTCCCTGATGTGTACTTTTTG
+HWI-EAS443:3:81:375:1642#0/1
ab`ba__Sab]]`abb`__aab`b___W^]Y^_b_^a`]X
@HWI-EAS443:3:75:1660:170#0/1
CAAGATTGGTCTTGTCTTTAGCCATTCCATGAGAGCGTCA
+HWI-EAS443:3:75:1660:170#0/1
J_^`Za^`^aa¥a¥Q_bb¥]]_¥Z_I_aaa¥b`_MG[Q_
@HWI-EAS443:3:18:1177:655#0/1
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+HWI-EAS443:3:18:1177:655#0/1
ababaaa`a`b[`a_ba]`_a`aaa^a__`^`_`__^`
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+HWI-EAS443:3:83:1486:746#0/1
a¥a[ZZ`XR¥¥P^`¥RTRNY]OVU^SY]NT[N`WI^WS[
@HWI-EAS443:3:99:1386:1215#0/1
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+HWI-EAS443:3:99:1386:1215#0/1
`XU[`ab]^]a]^_U`ba_]aU^`_]P^`_b`aIG¥Z__
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+HWI-EAS443:3:4:1268:1733#0/1
^`_]b_abaTT[a]Y_aa``[aaab_XFXYO_¥DDZ`ZBB
@HWI-EAS443:3:57:342:2039#0/1
AATTGACACTAATTGATGGCCATCCGAATTCTTTTGGGC
+HWI-EAS443:3:57:342:2039#0/1
Z¥XXW¥_S¥`_PT]^]NJFUX^XWTTNY[VR]T^_BBBB
@HWI-EAS443:3:9:439:1335#0/1
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+HWI-EAS443:3:9:439:1335#0/1
aaaaa^X`aaa_V[___^a¥R]^]a]aMDH¥JVau__¥VZ]B
@HWI-EAS443:3:75:1019:833#0/1
TACGGTTTGAAAAGAGGGCCTTCTACGGCAGGAGTGCCTG
+HWI-EAS443:3:75:1019:833#0/1
a¥a]TRQYW_SWYb¥]b`TQLR_TQ]Z`HW¥PV[GZYV^`
@HWI-EAS443:3:9:1051:1197#0/1
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+HWI-EAS443:3:9:1051:1197#0/1
]]bb`^ab`]aa]^`_Uaa]X_a`X]^`a^^_[EY[_`
@HWI-EAS443:3:25:1193:252#0/1
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+HWI-EAS443:3:25:1193:252#0/1
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@HWI-EAS443:3:3:1368:1735#0/1
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+HWI-EAS443:3:3:1368:1735#0/1
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@HWI-EAS443:3:80:1177:208#0/1
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+HWI-EAS443:3:80:1177:208#0/1
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+HWI-EAS443:3:77:1344:1899#0/1
T`_WYabbaXbb_H_a]_aaaab^`0`MMFH]X`X]Q`bS
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+HWI-EAS443:3:54:880:125#0/1
abb`bb`abaaaab_ba`^_b¥YaaSU^_[a¥aZ_0Q]]^
@HWI-EAS443:3:72:937:891#0/1
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+HWI-EAS443:3:72:937:891#0/1
aba`abbbbaabaaaaa[]_^_aba[a] []^a]Y¥PT[^
@HWI-EAS443:3:74:701:1288#0/1
CGGTCGCTGTCTGGCTGTCAGTAAGTATGCTAGAGTCCCG
+HWI-EAS443:3:74:701:1288#0/1
abb_baaba`ba^aaa^P` [^Y]^`Wa¥`^^`¥¥M^a]Z
@HWI-EAS443:3:33:624:1404#0/1
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+HWI-EAS443:3:33:624:1404#0/1
]WaaY_aba^Za]J]a]_____[_[NRV]W__^ZU¥QNUZ^
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GAAGAAATAAGGCCCTTCATTAGTCATGTCAAAGGAAGGC
+HWI-EAS443:3:54:1548:1398#0/1
a[^`_MZ`_]`UNOFT¥XWax^UDY^____QTVLXV_ZS^XN
@HWI-EAS443:3:13:1553:842#0/1
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+HWI-EAS443:3:13:1553:842#0/1
aZSS¥YOL[OX_]a_[DUaU^`V_a_`^U]aPaa^Y¥_aW
@HWI-EAS443:3:71:386:667#0/1
CTGGGTTTTGCTTAATGCATCTTGGTTCAACTCCTTCCTA
+HWI-EAS443:3:71:386:667#0/1
ababbXabb`b`^bbbbbababbbabb_a_a`abab`NOF
@HWI-EAS443:3:63:844:565#0/1
GAACAGTGACCACAGAAGCAGCTTTTGGTCTAGTGTGTGC
+HWI-EAS443:3:63:844:565#0/1
H]__YY]¥`]YU[`a¥^¥a¥^^W`aZ^UH_¥BBBBBBBBB
@HWI-EAS443:3:51:298:930#0/1
GGGGTTCTTCTCTTGTCTTCTGATGTGTACTTTCTGATT
+HWI-EAS443:3:51:298:930#0/1
WY`]XZ^aZ`a]aY`a`aaa^[^¥]YaZ¥^a`Z`X^]Q]
@HWI-EAS443:3:73:473:1467#0/1
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+HWI-EAS443:3:73:473:1467#0/1
Z]Y^ZQG[b^QRNT[WZaaUNT[TZ`V^GOZRSS]W^OQF

@HWI-EAS443:3:53:1618:497#0/1
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+HWI-EAS443:3:53:1618:497#0/1
`_¥aSaV_a_W__K_V^]`N]_^bb`Z]¥V_GN]XOWV_J
@HWI-EAS443:3:39:989:97#0/1
CTTCGACTTTTCGACGAAAAGGCAACGAACCCGATCGTGC
+HWI-EAS443:3:39:989:97#0/1
abbbbbbbbabbaabaaab`b_abaaa`a[Ua_`¥a¥aW
@HWI-EAS443:3:3:1005:1257#0/1
TCCTGGGTTTTGCTTAATGCATCTTGTTCAACTCCTTCC
+HWI-EAS443:3:3:1005:1257#0/1
_]`_abb]baaaa`]aaaa`a_aa_a`¥`__aZWVOW`X]
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+HWI-EAS443:3:40:12:1301#0/1
aaa`]ab]aaaaa`aa__aaaa`__Ta`[_`_aa__a_
@HWI-EAS443:3:76:284:548#0/1
TCCTGGGTTTTGCTTAATGCATCTTGTTCAACTCCTTCC
+HWI-EAS443:3:76:284:548#0/1
abaabba^aaaaaaaaaaa_`aaaa_`]`a`_`a`]a`__
@HWI-EAS443:3:99:556:872#0/1
TCCTGGGTTTTGCTTAATGCATCTTGTTCAACTCCTTCC
+HWI-EAS443:3:99:556:872#0/1
a]Uabbb^baba]ab_aab`abaaaa^_]aaaXa__a][_
@HWI-EAS443:3:76:1357:198#0/1
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+HWI-EAS443:3:76:1357:198#0/1
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@HWI-EAS443:3:54:364:1135#0/1
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+HWI-EAS443:3:54:364:1135#0/1
aaaa_aaaa```aaZ_`a[`]__^__`]^_Y¥_¥^Q^WV
@HWI-EAS443:3:35:331:577#0/1
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+HWI-EAS443:3:35:331:577#0/1
aZ[_]X^]ZN^a]P¥VM^a]`^YFQKK^`YBBBBBBBBBB
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TTTTCGGTTCTTCCCATATTCTTTCATTGCCTTTTCCGC
+HWI-EAS443:3:65:754:657#0/1
aabb`b]N[Waa]a`aaa0ab_babaabaaa`babaa^`¥
@HWI-EAS443:3:32:144:51#0/1
CAGTGGGTTGGTCTTGCCAGACGGTGCTGCGTTGCCCTT
+HWI-EAS443:3:32:144:51#0/1
TJXVXHWWW[]WZZ_W_ba`W_W`YTYFTYFYITXBBBBB
@HWI-EAS443:3:14:141:1507#0/1
TCTGAGTGGGGTTCTTCTTGTCTTCTCCTGATGTGTAC
+HWI-EAS443:3:14:141:1507#0/1
a`bbWWWUaba^a_X^^a_`_aa`a_]aa^a```_`[¥`¥_]`
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+HWI-EAS443:3:22:511:1547#0/1
`_`_ab`_b^U[aa`a_aaaa_b^aaaNa`ba]]_`Z`a
@HWI-EAS443:3:37:540:1154#0/1
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+HWI-EAS443:3:37:540:1154#0/1
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@HWI-EAS443:3:86:709:99#0/1
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+HWI-EAS443:3:86:709:99#0/1
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@HWI-EAS443:3:17:312:1634#0/1
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+HWI-EAS443:3:17:312:1634#0/1
`a`aa`a`aaaaa_`a`_XY`_`_a`^`^]____`^`^^^
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+HWI-EAS443:3:32:1107:804#0/1
aaaa` `aaaa`Y]aa_a]_a` [aXXQ_____Raa^WVUSYX
@HWI-EAS443:3:40:119:936#0/1
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+HWI-EAS443:3:40:119:936#0/1
abb_`¥a`bbbaaab`¥a`^ba]a`_[]aYa]Z_V¥Y`b
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+HWI-EAS443:3:45:1570:1193#0/1
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+HWI-EAS443:3:43:1316:2016#0/1
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+HWI-EAS443:3:39:162:1614#0/1
aaaa¥]_b`aVaa_0`Y]HX]aa[aa_VaU`]^Z`]OY¥M
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+HWI-EAS443:3:76:1467:1076#0/1
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@HWI-EAS443:3:48:1583:1266#0/1
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+HWI-EAS443:3:48:1583:1266#0/1
a_QWZ]a_UOZZ`aaa¥¥]WWUT]ZWQ`_`ZPZRRX^_]Z
@HWI-EAS443:3:62:585:557#0/1
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+HWI-EAS443:3:62:585:557#0/1
P_VZ^ZP_X¥aa[a_`R^a`a`XQ][ZSZEYGGVGW`BB
@HWI-EAS443:3:19:481:1366#0/1
GGGCGAATCAATAATTGTAGAATCTGGTGACCCGAATGCA
+HWI-EAS443:3:19:481:1366#0/1
^a`P`^IZbba`aba]TZbbabaaaaaWa_G_aa]aVa__

@HWI-EAS443:3:21:1429:384#0/1
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+HWI-EAS443:3:21:1429:384#0/1
`bZa]X]aa`bXa]`_WaYTKTWQ]^MVHMLRY¥BBBBB
@HWI-EAS443:3:13:1067:775#0/1
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+HWI-EAS443:3:13:1067:775#0/1
]bb[aZ[b_Z^`a_aa_¥JS``[a[aG¥N_HNWG YLV[_
@HWI-EAS443:3:84:767:902#0/1
GTCCACTCCTGCTTGTATTCCCTCATGGTTCGGTGCATTC
+HWI-EAS443:3:84:767:902#0/1
a¥__aa`aa`aaaa]Yaaa`a`a^^]]¥__a`Ya^____
@HWI-EAS443:3:95:172:1718#0/1
CAGGAATGTGTAGTCGCAACGGCATCATATCCATGCTTT
+HWI-EAS443:3:95:172:1718#0/1
^aabXbaa]b_aaLH[aa¥a^UW`aaa`a]a¥__]]^
@HWI-EAS443:3:44:1092:379#0/1
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+HWI-EAS443:3:44:1092:379#0/1
aZY]RW__a`V`[EZQ^T_a`^XYS[aNOFL^`TDR_NG
@HWI-EAS443:3:51:732:152#0/1
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+HWI-EAS443:3:51:732:152#0/1
^[a[`Z^X]HR_YURRQ`^0]_SV[_]^U¥BBBBBBBBBB
@HWI-EAS443:3:92:299:1119#0/1
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+HWI-EAS443:3:92:299:1119#0/1
a`ab^]aaaa_N¥S`^TV[`aa]XYU¥H¥`W`a___ZZa
@HWI-EAS443:3:39:1754:1449#0/1
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+HWI-EAS443:3:39:1754:1449#0/1
]b]^`[^a_W`[TQ¥_PX¥]]`_]¥^MFMa¥GKSYZ_¥TQ
@HWI-EAS443:3:86:151:1559#0/1
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+HWI-EAS443:3:86:151:1559#0/1
`bb__P]¥]]PVHWa]a`]]a`__[_a`]ULGaSZT^^X
@HWI-EAS443:3:59:1357:359#0/1
GAAACAATGGAAGTCGTTCAACAAACAAGGGTAGAAAGAT
+HWI-EAS443:3:59:1357:359#0/1
a^XY^`aaa¥`_QLYV¥MU]I__¥U[YY_]VV¥¥YNRSZ
@HWI-EAS443:3:38:686:1047#0/1
CCTTGAACAATGGAAGTCGTTCAACAAAAAAGGGTAGAT
+HWI-EAS443:3:38:686:1047#0/1
aa_`_a]a`bR__[_a^X¥OT]ZLN[[`YGF XUWZGVQGT
@HWI-EAS443:3:3:998:126#0/1
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+HWI-EAS443:3:3:998:126#0/1
¥_a_ba^a_[`a`baa`¥DI[X]UY_0¥U^G¥]R`_QZ]T
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+HWI-EAS443:3:100:736:1369#0/1
a`^`a`ba_]_aZOWXZ¥X¥U__XQZa`_`Y^_VZ^B
@HWI-EAS443:3:61:1670:38#0/1
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+HWI-EAS443:3:61:1670:38#0/1
aabaaaa`abaa`a^_a`^¥XPUZ`J^]^^¥PQYT]XZ
@HWI-EAS443:3:34:869:1455#0/1
CTTGAAACAATGGAAGTCGTTCAACAAACAAGGGTAGATA
+HWI-EAS443:3:34:869:1455#0/1
a`X`ab`abaa`X[a¥V[VXWSPYa_aa^^^QJSY]UWBB
@HWI-EAS443:3:58:684:870#0/1
CTTGAAACAATGGAAGTCGTTCAACAAACAAGGGTAGATA
+HWI-EAS443:3:58:684:870#0/1
aaaa```ab_b_a_a^WV¥Y_S^_W[_`__`]_¥SZ^¥V_
@HWI-EAS443:3:64:323:630#0/1
CTTGAAACAATGGAAGTCGTTCAACAAACAAGGGTAGATA
+HWI-EAS443:3:64:323:630#0/1
abaaWX`aa[aaaa]^Y]ZX_[]]S_`UR_¥VZ[OOSXP^
@HWI-EAS443:3:71:1162:1755#0/1
CTTGAAACAATGGAAGTCGTTCAACAAACAAGGGTAGATA
+HWI-EAS443:3:71:1162:1755#0/1
YS^`Y^bbbab`^a¥]a`^aS[_H]_`¥`^`WWT_X_UY
@HWI-EAS443:3:85:1218:1054#0/1
CCTTGAAACAATGGAAGTCGTTCAACAAACAAGGGTAGAT
+HWI-EAS443:3:85:1218:1054#0/1
aabbbabababab^aab¥[]``[[a_a`_Q[``aaS__Z^
@HWI-EAS443:3:97:1404:709#0/1
GTTGTGAATTGGTCATCATCTTTCTCACAACATTTGCCAG
+HWI-EAS443:3:97:1404:709#0/1
X__¥`a`_a_S`SS[_]aXab¥^V`ababbXXX]_a¥HH_
@HWI-EAS443:3:9:452:1502#0/1
ATCTACCCTTGTGTTGTTGAACGACTTCCATTGTTTCAAGG
+HWI-EAS443:3:9:452:1502#0/1
a`_a_]Y_a`V^^[_`Y[^P`]_]__ZP_T[SZSOW[
@HWI-EAS443:3:17:847:832#0/1
GCCTTGAAACAATGGAAGTCGTTCAACAAACAAGGGTAGA
+HWI-EAS443:3:17:847:832#0/1
aba`aba^aa_]_aa```¥]`^][¥`a^aZLZS[`_X^][
@HWI-EAS443:3:20:114:2040#0/1
TACCCTTGTGTTGTTGAACGACTTCCATTGTTTCAAGGCAT
+HWI-EAS443:3:20:114:2040#0/1
abbbbaaa`a`]_aaabba¥aaaaaba`aXa`aaaa_aa_
@HWI-EAS443:3:28:1162:1323#0/1
TGCCTTGAAACAATGGAAGTCGTTCAACAAACAAGGGTAG
+HWI-EAS443:3:28:1162:1323#0/1
¥_ba^a]¥Y¥a]W0]Z[T]a_XOSRS^MW]^M^ZT[OJ^L
@HWI-EAS443:3:46:1084:406#0/1
TGCCTTGAAACAATGGAAGTCGTTCAACAAACAAGGGTAG
+HWI-EAS443:3:46:1084:406#0/1
abbabb`_`bbbabbbaba[`a¥`Y^_ZZ``^_aa`a0^_

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+HWI-EAS443:3:4:740:851#0/1
aaaaabab`aa^a_aaaaabUR¥^_^]^^_`WY^Y`_P^
@HWI-EAS443:3:59:657:551#0/1
TGCCTTGAAACAATGGAAGTCGTTCAACAAACAAGGGTAG
+HWI-EAS443:3:59:657:551#0/1
aaaaabbaababaaa`aa[_a^__^[P]a`G_`_YX0^N
@HWI-EAS443:3:92:1068:768#0/1
TGCCTTGAAACAATGGAAGTCGTTCAACAAACAAGGGTAG
+HWI-EAS443:3:92:1068:768#0/1
ab`^`b`_^bababab¥b`]]`QZaaa¥aba[^a]a^Y_a
@HWI-EAS443:3:89:88:704#0/1
CAGGCAAAAGCAGGGCAGATAATCACTCAGTGAGTGACAT
+HWI-EAS443:3:89:88:704#0/1
a`a]aT^Z¥_a[ab]Ga]X`a__a^__UX^)`_`Z_`[`¥
@HWI-EAS443:3:38:1113:175#0/1
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+HWI-EAS443:3:38:1113:175#0/1
a]bbbabaa_QZ^bb_a`_`a[_a`Z^_MPP]^¥_^W_Q
@HWI-EAS443:3:4:268:610#0/1
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+HWI-EAS443:3:4:268:610#0/1
a)`VO¥a`[[`¥TT^ZX¥NQZPJ[aNSVGY[¥YU]P^VP
@HWI-EAS443:3:33:1018:1729#0/1
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+HWI-EAS443:3:33:1018:1729#0/1
_XR_N]ZT]ZSVRXHZ]RVHT[_YU]]X^_R]NFRUXF[[
@HWI-EAS443:3:73:223:643#0/1
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+HWI-EAS443:3:73:223:643#0/1
abaY`a_I_a[[baabb¥`ZZa_aaTaY]Uaa`a_`_¥0
@HWI-EAS443:3:43:526:1226#0/1
TTGACATCCATTCAAATGGTTTGCCTGCTTTTCGCTAAAA
+HWI-EAS443:3:43:526:1226#0/1
aabbaabaa]aaaZV_a_``aaaa```Za``_^¥a```a_
@HWI-EAS443:3:21:1376:963#0/1
GATTGACATCCATTCAAATGGTTTGCCTGCTTTTCGCTATT
+HWI-EAS443:3:21:1376:963#0/1
a_```_`_]^[a^X__^`_V__]YX^^W^_aXaX]Z^^
@HWI-EAS443:3:91:1124:1365#0/1
ATTGACATCCATTCAAATGGTTTGCCTGCTTTTCGCTAAAA
+HWI-EAS443:3:91:1124:1365#0/1
aababaa``_aaa^aa¥aa__`aa_Xaa`aa_`aZ[aa``
@HWI-EAS443:3:36:339:920#0/1
GATTGACATCCATTCAAATGGTTTGCCTGCTTTTCGCTAAA
+HWI-EAS443:3:36:339:920#0/1
aa_`````X]`[a`a__a_Z_``^^]^__`^^`]`^¥Q
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+HWI-EAS443:3:86:517:1967#0/1
]_aaab`aY^ab`^bab`a`Sa`_Y]_`a^`__`abaa
@HWI-EAS443:3:8:1513:572#0/1
GATTGACATCCATTCAAATGGTTTGCCTGCTTTCGCTAAA
+HWI-EAS443:3:8:1513:572#0/1
aaa`aa_aa[_`aa]___a`_Xa__XX^`X`^_U[X`____
@HWI-EAS443:3:13:1711:817#0/1
CGGATTGACATCCATTCAAATGGTTTGCCTGCTTTCGCTA
+HWI-EAS443:3:13:1711:817#0/1
_aa_a_a¥aZ_^`Za¥Z¥^]`_`Z^_^ZG_[LZ_`_]`]]_`
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+HWI-EAS443:3:29:1125:453#0/1
]ab]b`^b`b¥Z^baaaaaab[[]a¥S]aaab¥¥_Ybaa`
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+HWI-EAS443:3:2:507:58#0/1
abaaaaa__aaS^Z`_S^[_]JN__a[U_`0_]^U^W^^
@HWI-EAS443:3:90:964:1486#0/1
ATCCGGGCTCTCCTTCCGTAGAAGGCCCTCTTTTCAAACC
+HWI-EAS443:3:90:964:1486#0/1
a_bb_b`^aWZUQ_]a[V[aaaa_aU]GY_a¥aa_¥R^M[
@HWI-EAS443:3:19:1166:851#0/1
GGGCACTCCTTCCGTAGAAGGCCCTCTTTTCAAACCGTAT
+HWI-EAS443:3:19:1166:851#0/1
a`^¥`]a`Vaa]aa`aa]]`]]X^`__`a`[_a_aR]_R[[
@HWI-EAS443:3:35:78:1647#0/1
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+HWI-EAS443:3:35:78:1647#0/1
a[S[abb`bbaaa`XZ^U¥UZ¥]¥`^a_^W^a[M]`]YRO
@HWI-EAS443:3:58:34:1277#0/1
GTCGTCGCTTTAAATACGGTTTGAAAAGAGGGCCTTCTAC
+HWI-EAS443:3:58:34:1277#0/1
a`a`^a`]_a`Y][VK_[N^YUW^`[ZTHWSOJMWBBBB
@HWI-EAS443:3:48:706:455#0/1
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+HWI-EAS443:3:48:706:455#0/1
a`aa_babaaa`aa_baaaa_aaa_b`^`_b`]aaa`__a^
@HWI-EAS443:3:5:27:512#0/1
GAACTGAGCAATCTTGCGAAAGGAGAGAAAAGCTAATGTGC
+HWI-EAS443:3:5:27:512#0/1
]`ba`^`_aaa_baaabaS_[X_W^^`[_XaUa`]^`a_a_
@HWI-EAS443:3:27:294:1562#0/1
TGTGTTGGTAATGAAACGAAAACGGGACTCTAGCATACTT
+HWI-EAS443:3:27:294:1562#0/1
aa`[_aaa[aaa]abbaaaZaa]_`__a_a]_`_a^a_¥]
@HWI-EAS443:3:50:1088:514#0/1
TGTGTTGGTAATGAAACGAAAACGGGACTCTAGCATACTT
+HWI-EAS443:3:50:1088:514#0/1
ab_b`bba[[_`a`_V]¥_`^Yaaa^^`__¥]V[_[T¥`

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+HWI-EAS443:3:86:867:1325#0/1
aab[_aa`[ab]aZba]aW^baa`_ab_X`aa¥_aaHZW`
@HWI-EAS443:3:68:1410:1380#0/1
CTCATGTCAAAGGAAGGCACGAGCGGTTTGTTCCTTTT
+HWI-EAS443:3:68:1410:1380#0/1
Zbba_aXaa^_PQTX^^a`Xb[DW`^`IQF¥OJHFUBBBB
@HWI-EAS443:3:32:418:1522#0/1
GAGTCTTCGAGCTCTCGACGAAAAGGCAACAAACCCTGA
+HWI-EAS443:3:32:418:1522#0/1
`_]abbab]__`a`]`¥WabaaabaPT¥aaaa`a[b__X
@HWI-EAS443:3:34:162:1614#0/1
TGGCCCATATCTTGTCTTCTTTGCCAAAATGAGAAAT
+HWI-EAS443:3:34:162:1614#0/1
R`[H]_S_```aaXW^^Yaaa]`abb^a``aaa[aZ]W`[
@HWI-EAS443:3:67:369:1180#0/1
ACCGGTTGGAATTTCTAGCATGGTGGAGCCATGGTTTCT
+HWI-EAS443:3:67:369:1180#0/1
Y^TR]P^`^ZZa[]^WT`TXR_N_YQWxBBBBBBBBBB
@HWI-EAS443:3:60:1176:2027#0/1
TTTATCGTCGTTTTAAATACGGTTTGAAAAGAAGGCCTTC
+HWI-EAS443:3:60:1176:2027#0/1
U^a[L`bTSUXX`Y]V^XZR]_LU[OM`a]U]HTaUGV¥R
@HWI-EAS443:3:29:198:660#0/1
GGGGCTCTAGCATACTTACTGACAGCCAGACAGCGACCAA
+HWI-EAS443:3:29:198:660#0/1
]a`bbabY¥bbabaaabbbb`abbbbbbabbb`bbaabb
@HWI-EAS443:3:91:534:1514#0/1
GAGGGACTCTAGCATACTTACTGACAGCCAGACAGCGAAC
+HWI-EAS443:3:91:534:1514#0/1
H^_¥¥]¥[__`bbb_`b_``abbabb^^abUbb]abVQH[
@HWI-EAS443:3:100:1160:1378#0/1
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+HWI-EAS443:3:100:1160:1378#0/1
``_aaaaXa__^aaaaaWI¥`a¥`_Raa`HHV^U_XIBB
@HWI-EAS443:3:25:836:366#0/1
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+HWI-EAS443:3:25:836:366#0/1
_UN`_aW[aX[¥Za_W___Y_V[^]Z`X]]_^^^ [ZPS[
@HWI-EAS443:3:30:1757:923#0/1
AGGGACTCTAGCATACTTACTGACAGCCAGACAGCGACCA
+HWI-EAS443:3:30:1757:923#0/1
a¥T`ZW_ba]baab`_abb_aba_aa¥Xa]aaaaGZ^THV
@HWI-EAS443:3:45:1236:1507#0/1
AGGGACTCTAGCATACTTACTGACAGCCAGACAGCGACCA
+HWI-EAS443:3:45:1236:1507#0/1
ababa`baaaaaaaaaabbb`aba_ab_a_`a_a____[_`[
@HWI-EAS443:3:68:78:685#0/1
AGGGACTCTAGCATACTTACTGACAGCCAGACAGCGACCA

+HWI-EAS443:3:68:78:685#0/1
S`_^`aaa`aaba`_aaa^aa`aa``aaaaa¥]`a__`ZJ
@HWI-EAS443:3:88:537:809#0/1
AGGGACTCTAGCATACTTACTGACAGCCAGACAGCGACCA
+HWI-EAS443:3:88:537:809#0/1
aa]a_a_]`^a^a^`[^`aa]`^¥^aa_`^a`_`__`^UX
@HWI-EAS443:3:98:1628:588#0/1
AGGGACTCTAGCATACTTACTGACAGCCAGACAGCGACCA
+HWI-EAS443:3:98:1628:588#0/1
ab`aa^_aabbbbb]R^ab_aaaabb]aa_[XYR__aJDY
@HWI-EAS443:3:9:1036:1608#0/1
AGGGACTCTAGCATACTTACTGACAGCCAGACAGCGACCA
+HWI-EAS443:3:9:1036:1608#0/1
a]aaaabY^TS]abaa[F[UZ¥a_``]Ta^_____dWRVZ
@HWI-EAS443:3:34:1595:1926#0/1
CCCCGTTTTCGTTTCATTACCAACTATGTCCCCTTGCCC
+HWI-EAS443:3:34:1595:1926#0/1
_¥]^K¥bba¥Z[a`aa^b[abb]TZ]ba`¥YV[PPMTHFF
@HWI-EAS443:3:37:1203:751#0/1
GCCCCGTTTTCGTTTCATTACCAACTATGTCCCCTTGCC
+HWI-EAS443:3:37:1203:751#0/1
]JRa^[Z^¥`WYaYZZa[ab_`^`]`^]¥XFYUa`Z]UPRU
@HWI-EAS443:3:83:1577:1167#0/1
ACCCGTTTTCGTTTCATTACCAACTATGTCCCCTTGCC
+HWI-EAS443:3:83:1577:1167#0/1
a^¥Zb`aa`Xa]`_`_aaa_[Z`^Va^_XS[]R^[^]¥^RX
@HWI-EAS443:3:43:1205:958#0/1
GTCCCGTTTTCGTTTCATTACCAACTATGTCCCCTTGCC
+HWI-EAS443:3:43:1205:958#0/1
]FUZa^a[¥TT[`Y`[N_¥^LSZUPZR_TFI¥GN_WM HGG
@HWI-EAS443:3:52:1288:988#0/1
CGCCGTCTGGGTTCTTCAATGGTGG AACAGATCTTCATGA
+HWI-EAS443:3:52:1288:988#0/1
a``abaab_I^abbbba[aaabYb_]IW]a^RHa`[]``a
@HWI-EAS443:3:31:812:1341#0/1
GCCGTCTGGGTTCTTCAATGGTGG AACAGATCTTCATGAT
+HWI-EAS443:3:31:812:1341#0/1
abb`PbaaaaZaaaaaa]a]^a_]``aaa`^_`_`[^`
@HWI-EAS443:3:73:63:1098#0/1
CTGGGTTCTTCAATGGTGG AACAGATCTTCATGATCTCAG
+HWI-EAS443:3:73:63:1098#0/1
`]`W¥[Va_`^RQ_baX^QU[ab_TX`]¥``¥[R¥]^ZXS
@HWI-EAS443:3:81:1110:1426#0/1
TGCCGTCTGAGTTCTTCAATGGTGG AACAGATCTTGATGA
+HWI-EAS443:3:81:1110:1426#0/1
[¥_T_^^`a`aW`aMZbaX^`bIabaaPX^`[a`^F¥]^R
@HWI-EAS443:3:43:1525:954#0/1
ACGCCGTTGATTTCTGTTTAATGTCCAATCATAAGTCTG
+HWI-EAS443:3:43:1525:954#0/1
a_ba^bb`ba_bba_abaab_`aa]_]a`a^_`_`_]`_`

@HWI-EAS443:3:24:535:1872#0/1
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+HWI-EAS443:3:24:535:1872#0/1
aaab`]Xaa`aaa`aa`a`aa_a^`a`¥_a_`^[U_^[^
@HWI-EAS443:3:36:1027:1520#0/1
CGCCGGTTGATTTCTGTTTAATGTCCAATCATAAGTCTGG
+HWI-EAS443:3:36:1027:1520#0/1
aaaa`a^abaaa`_`^`aaaa__`^`_`Taaa^a_a]a__]
@HWI-EAS443:3:49:1019:800#0/1
CGCCGGTTGATTTCTGTTTAATGTCCAATCATAAGTCTGG
+HWI-EAS443:3:49:1019:800#0/1
`a^^`babbabb````abbaab_TV^aa]^`aa[a_`aa^
@HWI-EAS443:3:93:1164:960#0/1
GCGGGGGAGTCTTCGAGCTCTCGGACGAAAGGGCAACGAA
+HWI-EAS443:3:93:1164:960#0/1
a`¥Z^]a[````]`_^¥`¥a^`a`X`[¥¥FN`¥¥^P^]X
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+HWI-EAS443:3:38:1757:1885#0/1
`ab`b`bab_ba_Sbaabaab_ab_bbT][D[[KVY`^EO
@HWI-EAS443:3:6:1751:454#0/1
ATGGATAGCAAATAGTAGCATTGCCACAAC TAATTCAATG
+HWI-EAS443:3:6:1751:454#0/1
abab_[^_¥a[¥aaaXa¥Wxa`NQL¥]__H]XEUW^a__]
@HWI-EAS443:3:97:328:971#0/1
ATAGCAAATAGTAGCATTGCCACAAC TAATTCAATGCATG
+HWI-EAS443:3:97:328:971#0/1
^Z¥bVb_H_a[W`a]Y^b`]^`^`aaIa]F]T¥[¥`^UP]`
@HWI-EAS443:3:79:881:229#0/1
ATGGATAGCAAATAGTAGCATTGCCACAAC TATTTCATG
+HWI-EAS443:3:79:881:229#0/1
abbaaa`]aa`aaa`^aa_____^a`_a`^`_`a_dW_]__
@HWI-EAS443:3:86:1586:686#0/1
GGATAGCAAATAGTAGCATTGCCACAAC TATTTCATGCA
+HWI-EAS443:3:86:1586:686#0/1
_a`aa^]_aaaY]TZa`a^aa]Y¥V¥_^^aHa_¥_`¥_R^
@HWI-EAS443:3:96:1276:1892#0/1
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+HWI-EAS443:3:96:1276:1892#0/1
aaa__ab_aaaaa¥G_Va]_`_`¥¥Wa^Z_]Gba¥aW_`_`
@HWI-EAS443:3:13:691:242#0/1
CAAATTGATGGCCATCCGAATTCTTTTGGTCGCTGTCTGG
+HWI-EAS443:3:13:691:242#0/1
^M`ababbabb_abb`abaaaa`babb`__aaab````T`
@HWI-EAS443:3:34:875:2034#0/1
CACTAATTGATGGCCATCCGAATTCTTTTGGTCGCTGTCT
+HWI-EAS443:3:34:875:2034#0/1
a^a`aa^XYU_^Z`_]N[ZZZ^[^]^`^^`NFQVWTBBBBB
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+HWI-EAS443:3:11:1207:1566#0/1
]b`bab_Z[`b`_Y_abaabaaaa``aaa^Ya[aH_`^aZ
@HWI-EAS443:3:9:457:1177#0/1
CCTTGTCTTTCGTCCATTTTCACCTCTCCAGAAATCCGG
+HWI-EAS443:3:9:457:1177#0/1
S_aab^a`a]abb_X_]b¥Q_``Yaa]bY_^]`]ZGYaa
@HWI-EAS443:3:90:177:1828#0/1
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+HWI-EAS443:3:90:177:1828#0/1
^`ab_X_aabbabbbbabab`bbbb`^babbbbaabab
@HWI-EAS443:3:61:1639:1235#0/1
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+HWI-EAS443:3:61:1639:1235#0/1
TRWWHT__TQ__b[P^[¥ZWa[[[[OUZ[^WTT^XFOW_
@HWI-EAS443:3:53:149:577#0/1
CGGCTTGTCTTCTTCATGTTCTTTGCTTGGGGTCTTCT
+HWI-EAS443:3:53:149:577#0/1
ZZV`_aV]XHY_QUSVX_a`]ZZFQXNWJX[YFNFXSMU
@HWI-EAS443:3:27:1195:1116#0/1
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+HWI-EAS443:3:27:1195:1116#0/1
ab`_WVW_[aW`[T_XVNS_]Z_`aRK[H¥^]ZZa¥HV__
@HWI-EAS443:3:94:1662:465#0/1
CCACTTTTCATTTCTGCTCTGGAGGGAGTGAAGGTGTGCG
+HWI-EAS443:3:94:1662:465#0/1
a^TaZZUU]aa`]HUQM]O¥^GWYWS`UNYBBBBBBBBB
@HWI-EAS443:3:12:243:938#0/1
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+HWI-EAS443:3:12:243:938#0/1
^VTWta_YWXPk_a_VU]^R^BBBBBBBBBBBBBBBBB
@HWI-EAS443:3:17:1734:195#0/1
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+HWI-EAS443:3:17:1734:195#0/1
aa_`Y[¥ZYUN¥R^[VV[¥¥WNPPVUUMRUW¥BBBBBBBBB
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+HWI-EAS443:3:3:1240:92#0/1
a`bVYZaT`^^YZQGQ`ZaU¥_]Y__WYW¥BBBBBBBBB
@HWI-EAS443:3:6:481:556#0/1
CTTCACTCCCTCCAGAGCAGAAATGAAAAGTGGCGAGAGC
+HWI-EAS443:3:6:481:556#0/1
abb`b`aS¥``_a_a__¥_aZ^]`¥Z__TMX_W`^YY^B
@HWI-EAS443:3:45:434:35#0/1
TATGGCCTCATATACAACAGGATGGGAACAGTGACCACA
+HWI-EAS443:3:45:434:35#0/1
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+HWI-EAS443:3:54:751:588#0/1
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+HWI-EAS443:3:82:483:1548#0/1
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]`_`abaa¥b`^aaaaaaaaa^`a_`a^``a_Q`a¥_[[R
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`^^b`bba`aXa]`_aa]aa¥^`a__bSX_`_^]YLB BBB
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aa`a``bb``bba`ababababaabaaaaa]^`^W_]`_[[
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@HWI-EAS443:3:94:534:1037#0/1
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aa`b]_aa`¥aaaaaba^a```¥V¥aaaa`a_`¥XUX`X
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aaaa__`aaaaa^aa_¥a_]__¥Y__^X^Y¥^¥V]V]XX[
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a¥0¥aa^N_Z¥]_]_^¥[`[`a_ab`__¥¥^`aY__a_[-
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+HWI-EAS443:3:8:1318:804#0/1
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+HWI-EAS443:3:27:1487:801#0/1
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ab`_YX_VO_ab]Yaa_aa`_Z]¥XDJY^Z]Y]___XMMW
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[ba^`aaaXZPYZZ[^`aHIa_W_]`¥ZZS^[ZW`[aBB
@HWI-EAS443:3:26:1452:471#0/1
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+HWI-EAS443:3:26:1452:471#0/1
aabaab[ab_aa`ababa___`_aa_Xaa]_``^```]]^
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+HWI-EAS443:3:40:1104:1222#0/1
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+HWI-EAS443:3:45:492:987#0/1
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+HWI-EAS443:3:60:593:305#0/1
a__`[^VZ_V`_]__¥^WV^W^V_^¥XZ_Y]YYX[Y[YZ
@HWI-EAS443:3:61:768:248#0/1
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+HWI-EAS443:3:61:768:248#0/1
a]^ZVY^XY_Z^^RUTZ]WRXXOXWX^OYOUVZZZXZUXZ
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+HWI-EAS443:3:86:244:1837#0/1
ab`aT¥a^a_^`aaa_aa`_aa^_]Y_Z__^^]]W^]WZ^
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+HWI-EAS443:3:88:466:1238#0/1
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+HWI-EAS443:3:88:896:213#0/1
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UUS_S_KbXQW^^TUZTTYU_aRT]]SL]LY]HaT¥[BB
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_Y`[a[``]W`aaaaabaaaaa[aa`_Ya_UPY¥Za_
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+HWI-EAS443:3:5:533:1869#0/1
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+HWI-EAS443:3:31:1662:1099#0/1
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+HWI-EAS443:3:58:166:121#0/1
aaWb`Ua```]`T^a_aaaZRX__^^`_[YW_VR]¥]0]W
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+HWI-EAS443:3:46:1060:643#0/1
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@HWI-EAS443:3:65:1061:851#0/1
CTAAGGTATATAAACTTATTTGAAAAGGTTGAAAGGTT
+HWI-EAS443:3:65:1061:851#0/1
a`a¥ab¥bbab`¥baba_abbaaa]a``_a[a`XT`a]a

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+HWI-EAS443:3:29:1788:836#0/1
a]PZLUNQ]H_Y¥_Y¥_^S`W][]Z[V¥P[^SS_^]BBB
@HWI-EAS443:3:44:1716:1827#0/1
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+HWI-EAS443:3:44:1716:1827#0/1
``^]^[^`Z_] [`b`aaVba]G]_YXQX[aYW`VQDQ]GUV
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+HWI-EAS443:3:9:560:567#0/1
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+HWI-EAS443:3:67:1020:919#0/1
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+HWI-EAS443:3:100:702:920#0/1
aXZZX]^aa]a`_Y`a]YXVa¥Tb`_aBBBBBBBBBBBBBB
@HWI-EAS443:3:24:1377:1750#0/1
GTGTTTTTTCTCATGGTTCTGAAATCCTAATGTTAAATAC
+HWI-EAS443:3:24:1377:1750#0/1
a^a]`baaaaaaba_SVa_aa`^`_]`aaaaa_`^`a__a]
@HWI-EAS443:3:60:146:633#0/1
GTGTTTTTTCTCATGTTTCTGAAATCCTAATGTTAAATAC
+HWI-EAS443:3:60:146:633#0/1
a_^Z`^`a_a^`a_^]S_]_`^^_^^^_____Y_YOY^`X
@HWI-EAS443:3:97:648:422#0/1
AGATGATCACTCAATGAGTGACATCGAAGCCATGGCGTCT

+HWI-EAS443:3:97:648:422#0/1
_`^`H]a`a]¥aY]¥[[`]^aa_____PTJX¥Z]L_FOZ
@HWI-EAS443:3:33:1119:1703#0/1
GCCCAGATGGCTCTTCAATTGTTTCATCAAAGATTACAGAT
+HWI-EAS443:3:33:1119:1703#0/1
aabbaa[_aa]a_`bba`aaU_aa_N]a`VDP_]`^]a^
@HWI-EAS443:3:10:498:641#0/1
AACCATTTGAATGGATGTCAATCCGACTCTACTCTTCCTA
+HWI-EAS443:3:10:498:641#0/1
a`_aaaaab`aaaa__`^`a_^_]`^UZ^^]`^`^[_`^`_
@HWI-EAS443:3:19:891:1854#0/1
GTTCCGATCTTCATTCTTTTACTCTCGAACATGTACCCTT
+HWI-EAS443:3:19:891:1854#0/1
]TQ[]ITTQ]]^Z_YYU_¥V^]]][VOYW^]WOSUWLY^^T
@HWI-EAS443:3:82:760:716#0/1
GCGAAAGCAGGCAAACACTATTTGAATGGATGTCAATCCGAC
+HWI-EAS443:3:82:760:716#0/1
^a`a¥TXa[^b¥Z_aaba`]_]`a`_]Z_W¥Q¥___YWZ
@HWI-EAS443:3:30:824:621#0/1
CACAAATTCAAACGAGAAGATCATTTGAGCTAAAGAAGCT
+HWI-EAS443:3:30:824:621#0/1
a_UXYWW_]`[_Y^`VYZYa`[_]^Y¥]SXFYU_N¥^OXFO
@HWI-EAS443:3:99:64:858#0/1
ACGCAACGGCATCATATTCCATGCTTTTGGCTGGACCATG
+HWI-EAS443:3:99:64:858#0/1
[[bbbbbb_bbbbb`bbbbbbb_`b]babaaaaaaaa_aYXYP
@HWI-EAS443:3:81:441:383#0/1
CAGAAATCAACCAGCAGCAACTGCATTGGCCAACACCATA
+HWI-EAS443:3:81:441:383#0/1
aa^]]Z_`X`aa^^]]`[_YX`XXVSY_¥`^`[UWV[XW]
@HWI-EAS443:3:93:1419:1121#0/1
AACCATTTGAATGGATGTCAATCCGACTTTTACTTTTCCTA
+HWI-EAS443:3:93:1419:1121#0/1
aZQ`aT[`b__b^]^^V^`TaYVQTSTXFORSaa_YBBBB
@HWI-EAS443:3:13:945:613#0/1
CTCGATACTGAATCTTGGACAAAAGAAAGACACAAAAGACA
+HWI-EAS443:3:13:945:613#0/1
a`ZaV]¥NY^_Xa]Y]]PPW][WSS[]UDJFV[GWNXPPZ
@HWI-EAS443:3:31:950:817#0/1
CACGCCAGACTTATGATTGGACATTAACAGAAATCAACC
+HWI-EAS443:3:31:950:817#0/1
a`V^WQ_JWSVaYS_aaXQ¥SYaaa`_]`X_H__W`U__¥[
@HWI-EAS443:3:3:616:1035#0/1
CACGCCAGACTTATGATTGGACATTAACAGAAATCAACC
+HWI-EAS443:3:3:616:1035#0/1
abbbb`aaaabb`baabbbbaabbbbb`baabaaba^]
@HWI-EAS443:3:46:134:744#0/1
CACGCCAGACTTATGATTGGACATTAACAGAAATCAACC
+HWI-EAS443:3:46:134:744#0/1
`abaaabaabaabaaaaa`aaba_aa`aa`a^aa`]

@HWI-EAS443:3:64:1490:415#0/1
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+HWI-EAS443:3:64:1490:415#0/1
abbbbabbbabbbaabaaa`aabaaaWbaabaa` `aX`
@HWI-EAS443:3:92:1322:1489#0/1
CACGCCAGACTTATGATTGGACATTAACAGAAATCAACC
+HWI-EAS443:3:92:1322:1489#0/1
abbb`_bbaYba_`b` `bba`LG_a]bb^b`bba_Taa^]
@HWI-EAS443:3:66:1479:917#0/1
ACGCCAGACTTATGATTGGACATTAACAGAAATCAACCG
+HWI-EAS443:3:66:1479:917#0/1
aaaa`aaaaa`]`]`aaaa^[^aa__`_`¥]T_``_`W_X
@HWI-EAS443:3:43:596:1861#0/1
GAAGAATCCCACCCAGGAATATTTGAGAATTCGTGCCTTG
+HWI-EAS443:3:43:596:1861#0/1
a]bbb`¥]_aaa[Z`aa`a`a`^_]_aaaaWO^Ya[``_a
@HWI-EAS443:3:54:1764:587#0/1
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+HWI-EAS443:3:54:1764:587#0/1
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@HWI-EAS443:3:63:587:1238#0/1
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+HWI-EAS443:3:63:587:1238#0/1
Ubabbaaab`bbb`ba`aa_abbabaaa`^abaaaXaaaa
@HWI-EAS443:3:40:1624:1332#0/1
GAGGGGCATGCCATCCACACCAATTGACTTTTGTGAGCTG
+HWI-EAS443:3:40:1624:1332#0/1
a[¥FYWX^Z[R]RLNURV]_¥^[UWNGRW¥SWYSRUURUR
@HWI-EAS443:3:45:1665:1510#0/1
ACCGAGCTCACAAAAGTCAATTGGTGTGGATGGCATGCCA
+HWI-EAS443:3:45:1665:1510#0/1
]^ [FZS[¥]]T_SS]]__`a_a¥NT]]VBBBBBBBBBBB
@HWI-EAS443:3:19:1038:1667#0/1
CCCCAGCTCACAAAAGTCAATTGGTGTGGANGGCATGCCA
+HWI-EAS443:3:19:1038:1667#0/1
R_a_K_`^TaYaJbZ_GR]R[¥aa¥b¥bbYD[]X]I¥U`B
@HWI-EAS443:3:11:1418:2045#0/1
CAAATGAAAACCCAGCTCACAAAAGTAAATTGGTGTGGAT
+HWI-EAS443:3:11:1418:2045#0/1
[``aab``]_baYaaa`SaaaUaYa[IVIb`]]` [``_a_BB
@HWI-EAS443:3:13:887:392#0/1
CAAATGAAAACCCAGCTCACAAAAGTCAATTGGGGTGGAT
+HWI-EAS443:3:13:887:392#0/1
a`b`bbab__URaaba`a_T^[aZaMUZL]¥`YF[¥a_^Q
@HWI-EAS443:3:15:569:1631#0/1
CAGCTCACAAAAGTCAATTGGTGTGGATGGGATGCCACTC
+HWI-EAS443:3:15:569:1631#0/1
`b[ababaaaaa[HZaa` `Ya][`a`^^`_`HYaY¥aa`^`
@HWI-EAS443:3:15:912:441#0/1
GGCATGCCATCCACAGCAATTGACTTTTGTGAGCTGGGTT

+HWI-EAS443:3:15:912:441#0/1
aab`a`_XQaa^YaILT^[`_]_aa^a_aaGPW_QZZN]OX
@HWI-EAS443:3:19:1687:1585#0/1
CATGCCATCCACACCAATTGACTTTTGTGAGCGGGGTTTT
+HWI-EAS443:3:19:1687:1585#0/1
a`_b_]¥^aVa_a]abbb`¥^abbab]Ma[baQ_ab`aab
@HWI-EAS443:3:58:226:562#0/1
ACCAAATGAAAACCCGGCTCACAAAAGTCAATTGGTGTGG
+HWI-EAS443:3:58:226:562#0/1
¥`_^XW`a`_`R¥_[R]]_`_]`XR¥`Za^Y^)]_TZ[_Y
@HWI-EAS443:3:66:164:550#0/1
GCAGAGCGGCATGCCATCCACACCAATTGACTTTTGTGAG
+HWI-EAS443:3:66:164:550#0/1
aaXOX^G[U`_`_]`[[OZZ^^Z[¥PRWFNZMRWZ^^RQQRW
@HWI-EAS443:3:77:80:661#0/1
ATGAAAACCCAGCTCACACAAGTCAATTGGTGTGGATGGC
+HWI-EAS443:3:77:80:661#0/1
Za`Q_UW`_`a_a`_]Z`¥H¥U]Z]]`^]¥[`Z`XTZ^VB
@HWI-EAS443:3:88:1002:190#0/1
CACGCCATCCACACCAATTGACTTTTGTGAGCTGGGTTTT
+HWI-EAS443:3:88:1002:190#0/1
a`_`_`VU^V[[X_¥__¥aa^^]]^aa`]Y]]XaaaaUZU_
@HWI-EAS443:3:59:331:1543#0/1
GTGGCATGCCATCCNCACCAATTGACTTTTGTGAGCTGGG
+HWI-EAS443:3:59:331:1543#0/1
`a^_aa^a`a`_`a¥DR^`aa]aa`_`aaaa`U[`¥WT`_`^
@HWI-EAS443:3:72:767:1309#0/1
GAGNGGCATGCCATCCACACCAATTGACTTTTGTGAGCTG
+HWI-EAS443:3:72:767:1309#0/1
a`XD^ab]babaaaaabaaa`[a`aa`aa`a¥^a`_`_aa
@HWI-EAS443:3:26:1374:631#0/1
TGAAAACCCAGCTCACAAAAGTCAATTGGTGTGGATGGAA
+HWI-EAS443:3:26:1374:631#0/1
a``YSQZF[]_T¥QSU]LQXWLUPUZS^WBBBBBBBBBBB
@HWI-EAS443:3:39:551:570#0/1
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+HWI-EAS443:3:39:551:570#0/1
T_aa`UK`Zbbbab`a]_I`bQb_aXa__¥b`babNSVV_
@HWI-EAS443:3:46:196:1570#0/1
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+HWI-EAS443:3:46:196:1570#0/1
a`YbWH`_`a`¥ZP_NXa]a]a]Z_aaYS`_`aXYBBBBBBB
@HWI-EAS443:3:59:1530:657#0/1
GCGCCATCCACACCAATTGACTTTTGTGAGCTGGGTTTTTC
+HWI-EAS443:3:59:1530:657#0/1
aXD¥¥a_TQU^]YXVT`WXVU_a`aa`_¥`[^`YULSUYP
@HWI-EAS443:3:61:478:1106#0/1
AGCCCAGCTCACAAAAGTCAATTGGTGTGGATGGCATGCC
+HWI-EAS443:3:61:478:1106#0/1
]]bba]_babbbb`_`a__PY__aa^`Za`_`[VUUXYXNR

@HWI-EAS443:3:6:853:184#0/1
TGAAAACCCAGCTCACAAAAGTCAATTGGTGTGGATGGGA
+HWI-EAS443:3:6:853:184#0/1
`b]]`ba_`aaaaaaba_`aY_`Va]_`____^__BBBB
@HWI-EAS443:3:99:1646:1913#0/1
ACACCAATTGACTTTTGTGAGCTGGGTTTTTCATTTGGTTT
+HWI-EAS443:3:99:1646:1913#0/1
aaaaIabbaaWIa`Y^`[b`XZaaS]L`a^S_`¥^¥`LFZ
@HWI-EAS443:3:13:394:533#0/1
GACCCAGCTCACAAAAGTCAATTGGTGTGGATGGCATGCC
+HWI-EAS443:3:13:394:533#0/1
abbabbbaababaaaaab]baaaba`_a_`aa_`aZ__XW]
@HWI-EAS443:3:34:1244:1149#0/1
CGCCATCCACACCAATTGACTTTTGTGAGCTGGGTTTTCA
+HWI-EAS443:3:34:1244:1149#0/1
abaababab`b`]aaaaaaaaa_a`aaaa``]^__T[
@HWI-EAS443:3:35:88:2044#0/1
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+HWI-EAS443:3:35:88:2044#0/1
[bbbbbbabbab`]bb_babbabTX[`a_a`aaaa_`bTI
@HWI-EAS443:3:40:150:1869#0/1
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+HWI-EAS443:3:40:150:1869#0/1
abbbb`baabbbb]IT]baaaaaIXPN_`a_aP__QX[_`
@HWI-EAS443:3:43:479:542#0/1
GCCCAGCTCACAAAAGTCAATTGGTGTGGATGGCATGCCA
+HWI-EAS443:3:43:479:542#0/1
abbbbbbb`a_`bb_bbabbba]baaaaab`Y^ZT[``
@HWI-EAS443:3:51:883:83#0/1
GCCCAGCTCACAAAAGTCAATTGGTGTGGATGGCATGCCA
+HWI-EAS443:3:51:883:83#0/1
a`aabbabaaabba`a`aabbbbababaaabbXaa^SY_
@HWI-EAS443:3:52:1725:1956#0/1
GAAAACCCAGCTCACAAAAGTCAATTGGTGTGGATGGCAG
+HWI-EAS443:3:52:1725:1956#0/1
```aa[WX¥`VXT^R^\_\_ZT[Y^]\_^[ZM`Y[PU[^BBBB  
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TCCCAGCTCACAAAAGTCAATTGGTGTGGATGGCATGCCA  
+HWI-EAS443:3:57:811:354#0/1  
aaa`ab`aa`]¥Ya\_aWaW^a`a\_¥\_`^^`^\_`V^[Z[¥X  
@HWI-EAS443:3:64:1310:1143#0/1  
GCCCAGCTCACAAAAGTCAATTGGTGTGGATGGCATGCCA  
+HWI-EAS443:3:64:1310:1143#0/1  
aaaaabaaaaababaa¥a\_`babaNa¥aa`]a`U\_Y\_\_^¥  
@HWI-EAS443:3:70:1013:34#0/1  
GCCCAGCTCACAAAAGTCAATTGGTGTGGATGGCATGCCA  
+HWI-EAS443:3:70:1013:34#0/1  
aabb]`¥`\_]`^aa]R[QZRZbb]¥YT¥\_`R^`YQBBBBBB  
@HWI-EAS443:3:70:1772:984#0/1  
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+HWI-EAS443:3:70:1772:984#0/1  
abbbbbbbbabbbbbbbbabbbbbbb]Y\_\_`aa[\_`Z[\_a  
@HWI-EAS443:3:92:684:1036#0/1  
TCCCAGCTCACAAAAGTCAATTGGTGTGGATGGCATGCCA  
+HWI-EAS443:3:92:684:1036#0/1  
`¥\_aba`]^aaaZ^^¥\_a]a`¥`G`X[aaT^VZBBBBBB  
@HWI-EAS443:3:100:644:1041#0/1  
GCCATCCACACCAATTGACTTTTGTGAGCTGGGTTTTTCAT  
+HWI-EAS443:3:100:644:1041#0/1  
aa[a`aa\_\_YWaa`a]\_\_a`a\_T\_Z]¥aaa`Z\_a`]^`  
@HWI-EAS443:3:10:1074:1036#0/1  
AGCAGAGTGGCATGCCATCCACACCAATTGACTTTTGTGA  
+HWI-EAS443:3:10:1074:1036#0/1  
aaabbab\_aabba\_a\_aa`^`\_a^^a\_a`\_Y`aa`\_]`^`  
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TGAAAACCCAGCTCACAAAAGTCAATTGGTGTGGATGGCA  
+HWI-EAS443:3:10:816:574#0/1  
abaaaa`a\_aa\_a\_]`\_a`X\_[^]`\_\_Y^Y\_YYX\_¥RV  
@HWI-EAS443:3:13:1198:2013#0/1  
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+HWI-EAS443:3:13:1198:2013#0/1  
]^aVa\_\_`aaa\_b\_a\_a\_a`^[]\_[a`\_\_aa\_]T\_\_`^R]  
@HWI-EAS443:3:13:133:768#0/1  
AAATGAAAACCCAGCTCACAAAAGTCAATTGGTGTGGATG  
+HWI-EAS443:3:13:133:768#0/1  
a`baaaa]`aa\_aa`aa\_aYNQa]``^a\_\_`X`]`\_^`  
@HWI-EAS443:3:13:762:37#0/1  
CAAATGAAAACCCAGCTCACAAAAGTCAATTGGTGTGGAT  
+HWI-EAS443:3:13:762:37#0/1  
ababbbbaa^`\_aabaa``a``aX]\_\_a\_a`Xa]`^Y]  
@HWI-EAS443:3:15:1453:1608#0/1  
GAGTGGCATGCCATCCACACCAATTGACTTTTGTGAGCTG  
+HWI-EAS443:3:15:1453:1608#0/1  
¥¥`aa`a`aa¥`^b\_ba^`Z`\_`a`b`aab¥b^¥a`Y¥aa  
@HWI-EAS443:3:15:1491:1226#0/1  
ATGAAAACCCAGCTCACAAAAGTCAATTGGTGTGGATGGC  
+HWI-EAS443:3:15:1491:1226#0/1  
abb`bbba\_[\_a[a\_^\_[aXWaR[^^a\_^]]`\_[a]XTXF  
@HWI-EAS443:3:15:270:1353#0/1  
GTGGCATGCCATCCACACCAATTGACTTTTGTGAGCTGGG  
+HWI-EAS443:3:15:270:1353#0/1  
aUbb]b[[\_a`[aaZPNba`\_`ZZ[Z]`b`aH\_\_¥`¥a[\_  
@HWI-EAS443:3:15:697:126#0/1  
CAGCTCACAAAAGTCAATTGGTGTGGATGGCATGCCACTC  
+HWI-EAS443:3:15:697:126#0/1  
H\_bb[bbab`¥a`\_\_babbaabb[bbb[ZUaaaa\_IUR  
@HWI-EAS443:3:16:1461:1213#0/1  
CACACCAATTGACTTTTGTGAGCTGGGTTTTTCATTTGGTC  
+HWI-EAS443:3:16:1461:1213#0/1  
a`X`^¥`ab`ba\_bbaa]^\_W\_¥`]V\_^aT`XP``^aW¥\_



@HWI-EAS443:3:16:44:1487#0/1  
GAGTGGCATGCCATCCACACCAATTGACTTTTGTGAGCTG  
+HWI-EAS443:3:16:44:1487#0/1  
`a¥\_aabaaaa]aaa`aaaaa`\_`\_`a`\_a`V^`\_`  
@HWI-EAS443:3:18:752:1209#0/1  
GGCATGCCATCCACACCAATTGACTTTTGTGAGCTGGGT  
+HWI-EAS443:3:18:752:1209#0/1  
`¥]T`aaaabaaa`[a\_a`\_`aY`a[\_S\_¥[Sa\_[MU  
@HWI-EAS443:3:19:1728:344#0/1  
ACCAAATGAAAACCCAGCTCACAAAAGTCAATTGGTGTGG  
+HWI-EAS443:3:19:1728:344#0/1  
aaaba[ababba\_\_\_aa\_a\_a^a`\_`a\_]\_^aaaXW`V\_\_  
@HWI-EAS443:3:19:1789:601#0/1  
CAAATGAAAACCCAGCTCACAAAAGTCAATTGGTGTGGAT  
+HWI-EAS443:3:19:1789:601#0/1  
a`bbaababaaababbbababb`abUabaaaa`aa```\_`  
@HWI-EAS443:3:20:1384:756#0/1  
AGCAGAGTGGCATGCCATCCACACCAATTGACTTTTGTGA  
+HWI-EAS443:3:20:1384:756#0/1  
aaaa`aXb`aa`a`\_\_\_\_\_R`]Z\_\_`\_`^X`^a^VW^Y  
@HWI-EAS443:3:21:249:49#0/1  
AGCTCACAAAAGTCAATTGGTGTGGATGGCATGCCACTCT  
+HWI-EAS443:3:21:249:49#0/1  
aa`\_a\_aaY\_\_aXa\_¥````X\_^\_\_^X`\_NRSSY]]XYXX  
@HWI-EAS443:3:22:1584:896#0/1  
GACCAAATGAAAACCCAGCTCACAAAAGTCAATTGGTGTG  
+HWI-EAS443:3:22:1584:896#0/1  
abZK¥]`abZ`a``OXUa`\_U^Y\_^Y]`UV]Y\_\_\_][Y\_X\_  
@HWI-EAS443:3:23:1678:602#0/1  
ATGCCATCCACACCAATTGACTTTTGTGAGCTGGGTTTTTC  
+HWI-EAS443:3:23:1678:602#0/1  
¥b^^]`b[U^\_[\_`\_aab\_K^aaZU[baa^`\_`baP^[^G  
@HWI-EAS443:3:25:1463:346#0/1  
CAAATGAAAACCCAGCTCACAAAAGTCAATTGGTGTGGAT  
+HWI-EAS443:3:25:1463:346#0/1  
H\_\_b`\_Yab]``````U¥bbb]``W`\_bb¥`¥X``bbaa  
@HWI-EAS443:3:25:761:516#0/1  
AGCTCACAAAAGTCAATTGGTGTGGATGGCATGCCACTCT  
+HWI-EAS443:3:25:761:516#0/1  
aabbabbbabb`baaaaa\_aaaa`ab^a`\_aVYX`]`  
@HWI-EAS443:3:26:967:1919#0/1  
ATGAAAACCCAGCTCACAAAAGTCAATTGGTGTGGATGGC  
+HWI-EAS443:3:26:967:1919#0/1  
`aba`a`\_¥Pa\_Y`\_`\_`a`\_[Wa`\_`\_]XUYTT]^YZXU  
@HWI-EAS443:3:27:501:375#0/1  
CAGCTCACAAAAGTCAATTGGTGTGGATGGCATGCCACTC  
+HWI-EAS443:3:27:501:375#0/1  
abb\_bbbbb`bbb[baabaab\_aaba`\_b\_0[[]`W[YZ]  
@HWI-EAS443:3:27:523:954#0/1  
TGAAAACCCAGCTCACAAAAGTCAATTGGTGTGGATGGCA

+HWI-EAS443:3:27:523:954#0/1  
a`]^\_\_abaaaaaaa`\_W`\_`\_\_¥aW¥Y¥^`^UZ  
@HWI-EAS443:3:28:1176:368#0/1  
CCCAGCTCACAAAAGTCAATTGGTGTGGATGGCATGCCAC  
+HWI-EAS443:3:28:1176:368#0/1  
`a]\_b]\_a`ab`aaaYZa\_abb¥YaUa`[[b]G]RXQM^N  
@HWI-EAS443:3:28:178:392#0/1  
ATGCCATCCACACCAATTGACTTTTTGTGAGCTGGGTTTTTC  
+HWI-EAS443:3:28:178:392#0/1  
aaaaaa\_aaa`U`]\_a\_\_\_a`a`\_`\_^¥^a\_\_\_\_`\_W¥\_\_`  
@HWI-EAS443:3:28:478:140#0/1  
GAGTGGCATGCCATCCACACCAATTGACTTTTTGTGAGCTG  
+HWI-EAS443:3:28:478:140#0/1  
]Za]]VbaYaba¥\_a[a\_XWS[`PTaQ]OR\_Z^HIMS¥QQ  
@HWI-EAS443:3:28:532:886#0/1  
CCCAGCTCACAAAAGTCAATTGGTGTGGATGGCATGCCAC  
+HWI-EAS443:3:28:532:886#0/1  
abb`aaaa`aaa\_W\_Z\_`aaa`]X^WWa\_\_a^QY¥[ ]`XP  
@HWI-EAS443:3:29:1444:98#0/1  
CAAATGAAAACCCAGCTCACAAAAGTCAATTGGTGTGGAT  
+HWI-EAS443:3:29:1444:98#0/1  
ab`b]aaa]bUaa^`]a\_^YZa\_\_^]¥[Va`\_¥Y\_]aBBB  
@HWI-EAS443:3:2:1125:1862#0/1  
GTGGCATGCCATCCACACCAATTGACTTTTTGTGAGCTGGG  
+HWI-EAS443:3:2:1125:1862#0/1  
\_QYWZ^YZVYX\_¥SYL`WPS\_\_\_¥GG]\_[Y[V]Y]UU]]^  
@HWI-EAS443:3:2:1445:1136#0/1  
AAATGAAAACCCAGCTCACAAAAGTCAATTGGTGTGGATG  
+HWI-EAS443:3:2:1445:1136#0/1  
a`XV\_TZ]¥a]YZZYGPPIU[\_`\_`\_`]]SZSQ^P]^`^Z  
@HWI-EAS443:3:30:743:1234#0/1  
GCCATCCACACCAATTGACTTTTTGTGAGCTGGGTTTTTCAT  
+HWI-EAS443:3:30:743:1234#0/1  
abba`aba`bbb[a`\_aaaaaa\_a^a\_aaa\_V\_a\_\_Z\_  
@HWI-EAS443:3:31:1291:731#0/1  
CAGCTCACAAAAGTCAATTGGTGTGGATGGCATGCCACTC  
+HWI-EAS443:3:31:1291:731#0/1  
W^`¥[\_`\_Waa`¥0]QQZZ^S^`\_\_U]S``[PTPO[V[PR  
@HWI-EAS443:3:31:787:1098#0/1  
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+HWI-EAS443:3:31:787:1098#0/1  
a``^]Y]]`a`Z]\_V]\_\_\_\_[\_]LZWNN]¥VULSYXRN^R  
@HWI-EAS443:3:33:144:1198#0/1  
ACCAAATGAAAACCCAGCTCACAAAAGTCAATTGGTGTGG  
+HWI-EAS443:3:33:144:1198#0/1  
]abb\_Ma¥0\_^aaaaaaa`aa^Z`W\_[aX`\_\_[VP\_Q¥S  
@HWI-EAS443:3:33:972:1639#0/1  
ATGAAAACCCAGCTCACAAAAGTCAATTGGTGTGGATGGC  
+HWI-EAS443:3:33:972:1639#0/1  
aa`aaa```aaa\_\_\_aaa`\_\_aXa^`\_`\_[YZOO^^V]UN

@HWI-EAS443:3:34:460:1483#0/1  
ACACCAATTGACTTTTGTGAGCTGGGTTTTTCATTTGGTCT  
+HWI-EAS443:3:34:460:1483#0/1  
aaaabaa\_`Taaa`^`\_^`a\_Xaa^`Z^`\_aa^ZWZ¥ZXU  
@HWI-EAS443:3:35:1643:1698#0/1  
GCCATCCACACCAATTGACTTTTGTGAGCTGGGTTTTTCAT  
+HWI-EAS443:3:35:1643:1698#0/1  
aUM[[YR^`^¥\_\_VV^ZXV]]\_]RU^G\_\_\_a`X\_XRHPZ  
@HWI-EAS443:3:35:673:1200#0/1  
AACCCAGCTCACAAAAGTCAATTGGTGTGGATGGCATGCC  
+HWI-EAS443:3:35:673:1200#0/1  
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+HWI-EAS443:3:37:1139:1791#0/1  
a`^aaaaa\_`\_\_`Z\_U[][\_`\_\_T^`\_Ua\_aUN[¥U]Y  
@HWI-EAS443:3:37:140:1343#0/1  
ACCCAGCTCACAAAAGTCAATTGGTGTGGATGGCATGCCA  
+HWI-EAS443:3:37:140:1343#0/1  
aabb]]]b¥aaa\_KZ^\_Ya``\_\_\_\_R]V^TSS`[]NZU^^X  
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CCCAGCTCACAAAAGTCAATTGGTGTGGATGGCATGCCAC  
+HWI-EAS443:3:39:1355:172#0/1  
abbbbbaba\_baaab\_a`^aa`¥\_a\_¥U¥\_\_HJVYRPZYB  
@HWI-EAS443:3:42:1015:584#0/1  
ACCAAATGAAAACCCAGCTCACAAAAGTCAATTGGTGTGG  
+HWI-EAS443:3:42:1015:584#0/1  
aa\_b`aaba`aaaa\_abaaaa\_`\_^a]\_`\_a``\_]`^`\_  
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CAAATGAAAACCCAGCTCACAAAAGTCAATTGGTGTGGAT  
+HWI-EAS443:3:43:724:45#0/1  
`aa`¥\_ababbb`bbb``baba`\_aRR`a`aa]`b]a`a¥  
@HWI-EAS443:3:44:1713:725#0/1  
CCAGCTCACAAAAGTCAATTGGTGTGGATGGCATGCCACT  
+HWI-EAS443:3:44:1713:725#0/1  
abbbbbbbabbaY¥a`\_a^ab`^^a`a\_\_\_a^U[^^[X\_RU  
@HWI-EAS443:3:44:604:145#0/1  
AAAACCCAGCTCACAAAAGTCAATTGGTGTGGATGGCATG  
+HWI-EAS443:3:44:604:145#0/1  
a^U`^a^Y]a`\_\_^a`^\_\_YY`\_`\_a^W^Y`UMX]\_WQOS  
@HWI-EAS443:3:45:485:782#0/1  
ATGCCATCCACACCAATTGACTTTTGTGAGCTGGGTTTTTC  
+HWI-EAS443:3:45:485:782#0/1  
a`U¥YY[a\_]XVWVPNUZX]]\_]`^URUYV]Ra`GG^^V  
@HWI-EAS443:3:4:148:521#0/1  
GCAGAGTGGCATGCCATCCACACCAATTGACTTTTGTGAG  
+HWI-EAS443:3:4:148:521#0/1  
a\_Q\_WZW¥a\_UZ^¥[P[^Q[VQYX[]\_[^JNX[a[TY[UZ  
@HWI-EAS443:3:51:457:1312#0/1  
AGCAGAGTGGCATGCCATCCACACCAATTGACTTTTGTGA

+HWI-EAS443:3:51:457:1312#0/1  
aabba\_a\_aaaaa\_`aaa`a%a^b]\_aa`V\_`¥`Y\_]  
@HWI-EAS443:3:51:721:1829#0/1  
TGGCATGCCATCCACACCAATTGACTTTTGTGAGCTGGGT  
+HWI-EAS443:3:51:721:1829#0/1  
VaaaaabaaYba[aaaa`aab\_Va%a^`aVVU`Q]\_a\_\_  
@HWI-EAS443:3:51:859:1455#0/1  
AGCTCACAAAAGTCAATTGGTGTGGATGGCATGCCACTCT  
+HWI-EAS443:3:51:859:1455#0/1  
`bbaaa^`babbY`aabbab[VYa`V^`XV]W^S[\_\_\_]R%  
@HWI-EAS443:3:52:752:1459#0/1  
GTGGCATGCCATCCACACCAATTGACTTTTGTGAGCTGGG  
+HWI-EAS443:3:52:752:1459#0/1  
a%`a^`][%`\_`\_aYY\_`\_^%Y`aaaaX[Y^^\_`a`  
@HWI-EAS443:3:53:641:793#0/1  
AGCAGAGTGGCATGCCATCCACACCAATTGACTTTTGTGA  
+HWI-EAS443:3:53:641:793#0/1  
a\_aaba`Xaaaaa`aa\_\_\_aZ\_`a\_\_`\_V``aa\_^`Y  
@HWI-EAS443:3:53:787:744#0/1  
ACCCAGCTCACAAAAGTCAATTGGTGTGGATGGCATGCCA  
+HWI-EAS443:3:53:787:744#0/1  
a``bab`aaaaaaab[a^%aab`Y^%aa\_aaa]WYW]ZZ  
@HWI-EAS443:3:54:1565:1825#0/1  
ATGAAAACCCAGCTCACAAAAGTCAATTGGTGTGGATGGC  
+HWI-EAS443:3:54:1565:1825#0/1  
`bbabab\_YRb`]^Z]^bbaab^XaaaYaaX^aTa\_[VW  
@HWI-EAS443:3:54:386:1615#0/1  
CATCCACACCAATTGACTTTTGTGAGCTGGGTTTTCATTT  
+HWI-EAS443:3:54:386:1615#0/1  
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@HWI-EAS443:3:54:498:1809#0/1  
ATGAAAACCCAGCTCACAAAAGTCAATTGGTGTGGATGGC  
+HWI-EAS443:3:54:498:1809#0/1  
]W\_[a`a\_U]^`\_a^`]S]SYTJT\_YZ`\_]^NQ%`^]Ra\_Z  
@HWI-EAS443:3:54:615:1253#0/1  
GAGTGGCATGCCATCCACACCAATTGACTTTTGTGAGCTG  
+HWI-EAS443:3:54:615:1253#0/1  
WY\_[%`\_baZab%TZbb``a^`a]ba[aaaa^`T%`a]a  
@HWI-EAS443:3:55:1158:913#0/1  
ATCCACACCAATTGACTTTTGTGAGCTGGGTTTTCATTTG  
+HWI-EAS443:3:55:1158:913#0/1  
aa\_aaaa`baa`a\_\_aabaa\_a\_a%abaaVaaa\_\_a\_\_a  
@HWI-EAS443:3:55:150:1960#0/1  
ATGAAAACCCAGCTCACAAAAGTCAATTGGTGTGGATGGC  
+HWI-EAS443:3:55:150:1960#0/1  
Ua\_X][`\_a`\_P]a\_a\_a]^`\_Z`ZM^^VGTUU%`X^Z%XS  
@HWI-EAS443:3:55:923:740#0/1  
CCCAGCTCACAAAAGTCAATTGGTGTGGATGGCATGCCAC  
+HWI-EAS443:3:55:923:740#0/1  
\_\_\_\_UaYZSWG%Q\_\_aVNa\_Y^`NRY^`VUa%NJOLYVQW

@HWI-EAS443:3:57:147:1150#0/1  
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+HWI-EAS443:3:57:147:1150#0/1  
\_ZZ]ababW\_¥a¥`a\_YDN]bMa``aZ\_``a\_\_T¥[YYa\_  
@HWI-EAS443:3:57:1562:423#0/1  
GCCATCCACACCAATTGACTTTTGTGAGCTGGGTTTTTCAT  
+HWI-EAS443:3:57:1562:423#0/1  
a`SYUZT[KKX¥UP[[]U[UXa\_[]`S¥SUT`ZW^\_¥V^]  
@HWI-EAS443:3:59:1564:1272#0/1  
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+HWI-EAS443:3:59:1564:1272#0/1  
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@HWI-EAS443:3:5:103:1607#0/1  
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+HWI-EAS443:3:5:103:1607#0/1  
a`XQT[a^[¥aYWYXMM¥`)]ZU[S[[TPX¥ZTQU^BBBB  
@HWI-EAS443:3:5:604:444#0/1  
GCCATCCACACCAATTGACTTTTGTGAGCTGGGTTTTTCAT  
+HWI-EAS443:3:5:604:444#0/1  
\_¥\_[b\_aaU`¥M[]YX[VS^`U^¥V^W¥Y\_\_Y¥XXZ^UBB  
@HWI-EAS443:3:62:1471:75#0/1  
ATCCACACCAATTGACTTTTGTGAGCTGGGTTTTTCATTTG  
+HWI-EAS443:3:62:1471:75#0/1  
aa\_`a^a\_\_`\_a\_`\_\_`a``a]a]\_¥\_`a`[\_`\_Y¥`]]^  
@HWI-EAS443:3:63:635:396#0/1  
GGCATGCCATCCACACCAATTGACTTTTGTGAGCTGGGTT  
+HWI-EAS443:3:63:635:396#0/1  
`XS`Xa\_]X]V]\_Ta`]\_]¥`VW\_]`[]`]^Za\_`UR  
@HWI-EAS443:3:63:991:1787#0/1  
ATCCACACCAATTGACTTTTGTGAGCTGGGTTTTTCATTTG  
+HWI-EAS443:3:63:991:1787#0/1  
a\_aa`aaa]ba`aaa`\_aaa`]```aa\_a]\_`a¥\_a^\_a  
@HWI-EAS443:3:64:343:179#0/1  
GGCATGCCATCCACACCAATTGACTTTTGTGAGCTGGGTT  
+HWI-EAS443:3:64:343:179#0/1  
¥\_\_bb`\_`b\_\_Y`a]b]ba`¥a[\_[¥aXTRa¥\_]\_baaY^  
@HWI-EAS443:3:64:759:369#0/1  
GCCATCCACACCAATTGACTTTTGTGAGCTGGGTTTTTCAT  
+HWI-EAS443:3:64:759:369#0/1  
`ba]abaaaaa\_`a`a\_\_\_`a\_\_^\_\_\_\_`a`aY\_``\_Ya  
@HWI-EAS443:3:66:469:141#0/1  
GAGTGGCATGCCATCCACACCAATTGACTTTTGTGAGCTG  
+HWI-EAS443:3:66:469:141#0/1  
\_U\_Uaaaa`a]]Y^^`X]]^[¥N¥\_^WZ`\_^^¥W^RNRW`  
@HWI-EAS443:3:67:237:932#0/1  
GACCAAATGAAAACCCAGCTCACAAAAGTCAATTGGTGTG  
+HWI-EAS443:3:67:237:932#0/1  
`\_bbbabb\_b[bb`SZ¥abaaaW\_baXaa[aa`¥YZ]`  
@HWI-EAS443:3:68:1118:524#0/1  
ACCAAATGAAAACCCAGCTCACAAAAGTCAATTGGTGTGG

+HWI-EAS443:3:68:1118:524#0/1  
]`a`¥K^bW[`]¥[^Za^a\_aXY]``\_``\_Y¥][S0TV]  
@HWI-EAS443:3:69:1456:571#0/1  
GACCAAATGAAAACCCAGCTCACAAAAGTCAATTGGTGTG  
+HWI-EAS443:3:69:1456:571#0/1  
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@HWI-EAS443:3:6:1340:199#0/1  
GCAGAGTGGCATGCCATCCACACCAATTGACTTTTGTGAG  
+HWI-EAS443:3:6:1340:199#0/1  
TZb`YTGv\_R`aba`aa]R\_Q`]``]aa^X[aaa¥`BBB  
@HWI-EAS443:3:6:437:704#0/1  
GACCAAATGAAAACCCAGCTCACAAAAGTCAATTGGTGTG  
+HWI-EAS443:3:6:437:704#0/1  
abaab`aabaaba`aYa`[a\_\_\_a\_a\_aV\_\_\_aa\_WOWY`  
@HWI-EAS443:3:70:1303:642#0/1  
AGCTCACAAAAGTCAATTGGTGTGGATGGCATGCCACTCT  
+HWI-EAS443:3:70:1303:642#0/1  
a^aaaaaa`Y`]a`aaaaYaUa\_^\_^Y[^ZW^^\_]Y^  
@HWI-EAS443:3:70:1624:868#0/1  
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+HWI-EAS443:3:70:1624:868#0/1  
aaa`abaaaaaaaa^aZaa\_aaa`^a\_a\_\_a`]R[WZMV[  
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CAAATGAAAACCCAGCTCACAAAAGTCAATTGGTGTGGAT  
+HWI-EAS443:3:71:1712:552#0/1  
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@HWI-EAS443:3:71:63:780#0/1  
AGCTCACAAAAGTCAATTGGTGTGGATGGCATGCCACTCT  
+HWI-EAS443:3:71:63:780#0/1  
Uba]^a\_X\_a^VR[aa^aa`\_a[]NPT^¥R[WT^]PQLVT  
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GTGGCATGCCATCCACACCAATTGACTTTTGTGAGCTGGG  
+HWI-EAS443:3:72:1090:1797#0/1  
`XX]bbHaaa¥VY^\_]\_a¥a[\_[\_[^`VJ^a^\_UBBBBBB  
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ATGAAAACCCAGCTCACAAAAGTCAATTGGTGTGGATGGC  
+HWI-EAS443:3:72:1405:2039#0/1  
aba]aaaaaaa`^`a^`a^`W\_]`^`[UG]]][T[Y]]G  
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+HWI-EAS443:3:72:1750:1737#0/1  
a^`^`[V]T\_UURX^X`W`[U]¥]]LV[YG\_Y\_BBBBBBBBB  
@HWI-EAS443:3:72:975:744#0/1  
AGCTCACAAAAGTCAATTGGTGTGGATGGCATGCCACTCT  
+HWI-EAS443:3:72:975:744#0/1  
]bbaaaa`^`^`aaaaabab\_\_a\_a`aaaZX[¥]^a\_Y\_`[  
@HWI-EAS443:3:73:445:1766#0/1  
GAAAACCCAGCTCACAAAAGTCAATTGGTGTGGATGGCAT  
+HWI-EAS443:3:73:445:1766#0/1  
\_``[W`b\_ZW^¥a`¥HRU¥PZa\_]``RWYUZXX]UBBBB

@HWI-EAS443:3:74:1105:287#0/1  
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+HWI-EAS443:3:74:1105:287#0/1  
a`a\_a]\_`\_a\_\_^\_¥^¥]\_aX^\_^^`\_U`Y^¥UX\_]VVV  
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+HWI-EAS443:3:74:620:660#0/1  
a\_]\_a]abaaa\_a\_aaaaaaaaa\_aa`]`aaaa]Ta]\_^`  
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+HWI-EAS443:3:74:902:200#0/1  
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+HWI-EAS443:3:74:930:1000#0/1  
aaaa`\_a`ba`a\_aa^a\_aaa\_\_`\_]a\_\_]`\_a^\_U\_X\_Q  
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+HWI-EAS443:3:74:946:325#0/1  
aa`^^Y\_¥]^^`V^[JZ¥\_a]VRV^¥]WS[PXM^^V[Z\_¥  
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@HWI-EAS443:3:75:384:710#0/1  
CAGCTCACAAAAGTCAATTGGTGTGGATGGCATGCCACTC  
+HWI-EAS443:3:75:384:710#0/1  
`bbbabaabaa`a\_``aab`aXa\_`\_\_`\_``[]^\_\_\_\_]¥  
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GTGGCATGCCATCCACACCAATTGACTTTTTGTGAGCTGGG  
+HWI-EAS443:3:76:1235:352#0/1  
a^aa^`^aYY`\_^[^¥aX^aa\_\_Z^O\_\_¥`\_Z\_Z`Z]\_]\_  
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AGCAGAGTGGCATGCCATCCACACCAATTGACTTTTTGTGA  
+HWI-EAS443:3:76:1327:1580#0/1  
a[^`aa\_[baaaa\_a^a`Ya`\_\_Y]\_^`\_V¥Xaa`^¥Y^^  
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GTGGCATGCCATCCACACCAATTGACTTTTTGTGAGCTGGG  
+HWI-EAS443:3:77:188:1003#0/1  
a¥QORX¥`a`] [\_X¥¥RXZOU[SLKSXRUQUSLKRW[WZQ  
@HWI-EAS443:3:77:232:966#0/1  
GCCATCCACACCAATTGACTTTTTGTGAGCTGGGTTTTCAT  
+HWI-EAS443:3:77:232:966#0/1  
a`XQU`a¥]U^¥ML[Z\_]UYLY`RUTVY[`^RUJXXPPS  
@HWI-EAS443:3:78:1293:503#0/1  
GCATGCCATCCACACCAATTGACTTTTTGTGAGCTGGGTTT  
+HWI-EAS443:3:78:1293:503#0/1  
a]^`a^W\_\_\_\_]RX`Y[¥\_aa¥V\_``\_aX\_]\_Q``\_aU][  
@HWI-EAS443:3:79:127:662#0/1  
GACCAAATGAAAACCCAGCTCACAAAAGTCAATTGGTGTG

+HWI-EAS443:3:79:127:662#0/1  
aa[aaaaaaaa`\_]a^aaa\_`] `X\_TTN`^W\_\_`]TWV^  
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AATGAAAACCCAGCTCACAAAAGTCAATTGGTGTGGATGG  
+HWI-EAS443:3:7:1276:1233#0/1  
aa\_aba]b` `b` `aaaa¥a]aaSaaaX[ba^Z` `a`  
@HWI-EAS443:3:7:787:997#0/1  
TGAAAACCCAGCTCACAAAAGTCAATTGGTGTGGATGGCA  
+HWI-EAS443:3:7:787:997#0/1  
ab\_aa[ `\_]\_aaa\_a^aa` `X\_` ¥\_]a\_Y` ^a¥Y]` BBB  
@HWI-EAS443:3:80:885:785#0/1  
AACCCAGCTCACAAAAGTCAATTGGTGTGGATGGCATGCC  
+HWI-EAS443:3:80:885:785#0/1  
`X\_aaaa^a` ` [ `Xa[a\_`aaa\_T` ¥[RZaa`V[ `SML  
@HWI-EAS443:3:81:532:1052#0/1  
ATGAAAACCCAGCTCACAAAAGTCAATTGGTGTGGATGGC  
+HWI-EAS443:3:81:532:1052#0/1  
aaa¥aaa` `] ¥Z\_]\_]aa^`] []a^^^ [RV^U^Z]]^]R  
@HWI-EAS443:3:82:1152:1448#0/1  
CAGCTCACAAAAGTCAATTGGTGTGGATGGCATGCCACTC  
+HWI-EAS443:3:82:1152:1448#0/1  
` [ ` `^aa`a`a]Waaabaa`WaX`a\_\_a^Q[] [V`XT] [ `]  
@HWI-EAS443:3:83:1388:932#0/1  
GAGTGGCATGCCATCCACACCAATTGACTTTTGTGAGCTG  
+HWI-EAS443:3:83:1388:932#0/1  
` `aabbabbab]bbabbba`ababbb\_aaabbb`a\_b[ab  
@HWI-EAS443:3:83:271:580#0/1  
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+HWI-EAS443:3:83:271:580#0/1  
aaM^bba`baaaaaaaaaaaaaa\_a[a\_aaaaU¥` `a\_\_\_\_  
@HWI-EAS443:3:83:72:362#0/1  
GCCATCCACACCAATTGACTTTTGTGAGCTGGGTTTTTCAT  
+HWI-EAS443:3:83:72:362#0/1  
V]ab¥Waa¥a\_¥\_U`bbaaUZaa[P[WQH` [VYG[IZW^V  
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+HWI-EAS443:3:83:904:439#0/1  
abbbbbbbbbbaaabaabab`]b\_aaababa`baab`a  
@HWI-EAS443:3:83:986:1888#0/1  
AGAGTGGCATGCCATCCACACCAATTGACTTTTGTGAGCT  
+HWI-EAS443:3:83:986:1888#0/1  
\_`^ [N`VWavT [LYFV\_¥ZYP^^V¥Z¥QSZ^] [RKNUKHL  
@HWI-EAS443:3:84:627:1427#0/1  
CCAAATGAAAACCCAGCTCACAAAAGTCAATTGGTGTGGA  
+HWI-EAS443:3:84:627:1427#0/1  
aababbaaa\_aaaaaaaa`aa`^TZUaa\_`a¥^W`^\_W\_  
@HWI-EAS443:3:85:1361:1067#0/1  
GCCATCCACACCAATTGACTTTTGTGAGCTGGGTTTTTCAT  
+HWI-EAS443:3:85:1361:1067#0/1  
a¥[^a`¥ZP^` [\_Z]^] [\_ZV` `]W\_U¥]] ` `]RWWZV^Y



@HWI-EAS443:3:85:687:1587#0/1  
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a`aa\_\_a]`a`b^S\_`a\_¥aaaa`]\_\_\_\_Z^^`\_^\_VWX  
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+HWI-EAS443:3:86:213:1680#0/1  
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aa¥U]aababaaa`aab]X\_a^aa\_[¥]`aa``]YR^\_\_`  
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+HWI-EAS443:3:8:1141:1423#0/1  
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+HWI-EAS443:3:90:890:423#0/1  
abaaa```bb\_`bbaab`aabbaaaaaaaaaabYa`a\_aa  
@HWI-EAS443:3:91:771:338#0/1  
CATCCACACCAATTGACTTTTGTGAGCTGGGTTTTCATTT  
+HWI-EAS443:3:91:771:338#0/1  
^`a\_Z^^^`\_aa^¥]`¥JT\_a¥aVa`\_a]`S\_Y[R¥¥YY  
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+HWI-EAS443:3:92:650:1778#0/1  
a`a^\_aaRZY¥\_¥Z`\_]W\_a]X`aaU]`^`^`\_aaYUPX^  
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``a`\_aaaa\_\_\_\_\_a]L`¥[``a`\_\_U\_YYJY^a^PMWWB  
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+HWI-EAS443:3:93:1507:1717#0/1  
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a`\_\_`aa^a``\_aa¥]Z\_`¥^\_]\_[\_Z^^^]X]Y\_W\_X]\_  
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^\_]\_a`^^^Z^aaa`¥K\_b[^Vaaaaaa\_a`a\_a``\_a\_  
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aa^a`a]^¥^`Y¥Ya\_aa[``[^aZUU`\_Wa]\_¥WP^\_^  
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AGCTAATGTGCTAATTGGGCAAGGAGACGTAGTGTGGTA  
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\_``^`[U^`\_]`TY]]\_]`PW]\_U^\_]^^UV^UZX^^X  
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+HWI-EAS443:3:52:713:194#0/1  
a^a^```¥a\_]^[^aT`¥a`\_\_\_[Z^Z\_^\_¥Y\_S]^Z[]Z  
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ab`aaaa`````\_`N\_Ya`````\_\_\_^]Xaa\_¥X^V^]a]\_R

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^`bW[aa`b`aa]Rbbaaa]aT`Pa`\_`aa\_a^a`]\_\_VI  
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\_aaaa)``a¥a`\_aW0\_a^\_a`[W]\_a`\_a]¥SXU^`Z^  
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WV¥¥I\_ZV\_¥U\_¥^\_a`W¥aW\_ZS¥TUVV\_ZRMDDZ^PLT  
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aaaZ\_[TFT\_a\_a`\_\_aaa\_\_a¥^Za\_UNV`\_^]\_]X[  
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+HWI-EAS443:3:20:1132:23#0/1  
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+HWI-EAS443:3:31:1722:1446#0/1  
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Y` ` ]` ]¥Sa`¥baa]D][a` `b`\_aaaYbaaa]\_\_\_\_\_ `a\_N  
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+HWI-EAS443:3:2:1205:1580#0/1  
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+HWI-EAS443:3:46:305:1925#0/1  
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+HWI-EAS443:3:67:1425:230#0/1  
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ACCCAGCTCACAAAAGTCAATTNGTGTGGATGGCATGCCA  
+HWI-EAS443:3:66:1453:1093#0/1  
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+HWI-EAS443:3:13:1406:280#0/1  
abbbbaabbabaaaaab\_bb\_aaaaaaaa¥`a\_aX\_aX  
@HWI-EAS443:3:30:707:1196#0/1  
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+HWI-EAS443:3:30:707:1196#0/1  
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+HWI-EAS443:3:57:982:267#0/1  
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+HWI-EAS443:3:98:1408:1761#0/1  
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+HWI-EAS443:3:63:1681:2016#0/1  
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+HWI-EAS443:3:45:590:1403#0/1  
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+HWI-EAS443:3:100:802:1161#0/1  
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+HWI-EAS443:3:33:948:1754#0/1  
`[I\_]\_YS`Xaa`¥`]YXQ^^[[]W]ZTZ`\_WFYZ[\_]Y\_  
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+HWI-EAS443:3:38:533:1889#0/1  
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+HWI-EAS443:3:46:209:1951#0/1  
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+HWI-EAS443:3:100:929:1600#0/1  
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+HWI-EAS443:3:47:1689:1648#0/1  
aaa¥`baS\_aaa]aa\_b¥a\_\_`a`\_Z^\_\_a`\_\_\_\_V^^YZ  
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+HWI-EAS443:3:14:755:61#0/1  
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+HWI-EAS443:3:48:208:469#0/1  
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+HWI-EAS443:3:48:1581:383#0/1  
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+HWI-EAS443:3:66:846:266#0/1  
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+HWI-EAS443:3:91:975:464#0/1  
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+HWI-EAS443:3:94:1418:477#0/1  
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+HWI-EAS443:3:46:201:1080#0/1  
\_Z^`]ZS`¥ab`aaaaab`]^`XFP[^`a`]X^]aa]aaaR  
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+HWI-EAS443:3:48:1482:1717#0/1  
`\_```[`aaaaZa`a`aaa`aZ\_\_\_`]^`Z^^`\_\_\_\_\_Z  
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+HWI-EAS443:3:1:537:1331#0/1  
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+HWI-EAS443:3:62:800:493#0/1  
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Vabb¥aV^``]XSXaab\_\_]b]a^`Yaaa^`^a]SL\_ba]  
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\_aa` `` `aZ` `b^^]\_\_X[aaaa\_Z]Paa[[J[ `¥NGQXT  
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]Z[\_[ `aa\_a^¥`aaa[ `a`aaaaaaaa`W`aaY`\_KU[]  
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+HWI-EAS443:3:3:1364:612#0/1  
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+HWI-EAS443:3:99:215:172#0/1
abaa^¥Z^`baa`a]D]VVZ`^Y]ab`V`^`Xa]¥]`aa
@HWI-EAS443:3:9:1456:970#0/1
GTTCTTCTCTTGTCTTCCTGATGTGTACTTTTTGATTATG
+HWI-EAS443:3:9:1456:970#0/1
aabaabaaaaba`aa[^aaa`a`_]a`a`a`a`a`_a_
@HWI-EAS443:3:9:1472:1479#0/1
ATGGCCATAATCAAAAAGTACACATCAGGAAGACAAGAGA
+HWI-EAS443:3:9:1472:1479#0/1
aaaa__aa`_^Q]`aa_a[a`^`_`_a_a]a^V^_a_a^
@HWI-EAS443:3:9:407:170#0/1
ATGGCCATAATCAAAAAGTACACATCAGGAAGACAAGAGA
+HWI-EAS443:3:9:407:170#0/1
a`aaaaaaa`aaaaa_aZa__Q__^]`^`_¥T¥_]_^
@HWI-EAS443:3:84:602:1639#0/1
GGCCATGTACCATTCTGTTTTTCATGCCTGATTAGTGGATT
+HWI-EAS443:3:84:602:1639#0/1
aab`[_`¥0aabba`^ab_aaaaaaaaaaaaaaaaaZaa_a`

@HWI-EAS443:3:14:56:978#0/1
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+HWI-EAS443:3:14:56:978#0/1
_a_bbaa[abbab`aaaa`a`aab`a`]aaaa]¥aa`a[
@HWI-EAS443:3:10:1733:328#0/1
TAGGGCTACTGAATACATAATGAAGGGAGTGTACATAAAT
+HWI-EAS443:3:10:1733:328#0/1
aaba`bbbaabb_baQ`bbabbaa`]baa_baa_]aaab`
@HWI-EAS443:3:88:1390:1178#0/1
GGCCGTCTGAGTTCTTCAATGGTGAACAGATNTTCATGA
+HWI-EAS443:3:88:1390:1178#0/1
ab_[b_U]^R`V```bba[bb`aaaW]]bb_¥D^bVbaab
@HWI-EAS443:3:89:270:1739#0/1
AGGGCCGTCTGAGTTCTTCAATGGTGAACAGATCTTCAT
+HWI-EAS443:3:89:270:1739#0/1
^QOS¥^[S_XTY¥Y¥[_V^]]R]VTRSZ^UV[Z[___[[`S
@HWI-EAS443:3:47:1455:1552#0/1
TGGCCGTCTGAGTTCTTCAATGGTGAACAGATCTTCATG
+HWI-EAS443:3:47:1455:1552#0/1
ababab_a`]_a_a`aa`a`a[Ua_`_N_]`] `a¥` `]
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GGCCGTCTGAGTTCTTCAATGGTGAACAGATCTTCATGA
+HWI-EAS443:3:57:110:1099#0/1
aabba]abba_Ya_aaaVaa`bYaa`a^a_a_aaa` `a__
@HWI-EAS443:3:60:1563:1950#0/1
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+HWI-EAS443:3:60:1563:1950#0/1
ab]``GYaaZ]P[¥Ya_Wa_¥TSLZP[U^^X¥RPW^ZYMU
@HWI-EAS443:3:30:1721:1269#0/1
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+HWI-EAS443:3:30:1721:1269#0/1
ab`bbabbbbb`_bbbbXH^bbT`bba^L`N^HDY]aWaU
@HWI-EAS443:3:77:475:23#0/1
CAAGGTACTTTTTGGACAGTATGGATAACAAATAGTAGC
+HWI-EAS443:3:77:475:23#0/1
aabbaW`bbbbbbbaabb_baba`a_P`] `a^` `aWaaU
@HWI-EAS443:3:38:1066:1410#0/1
AGAAATCCAACCGTCTCCTATATGAGCTGCTAGGGACA
+HWI-EAS443:3:38:1066:1410#0/1
aa` `a`aa_aW¥__]___¥_^_]^^^[^VWWU¥UUWWWU
@HWI-EAS443:3:9:304:395#0/1
GCCTGGGTTTTGCTTAATGCATCATGGTTCAACTCCTCC
+HWI-EAS443:3:9:304:395#0/1
a]__aa_TX_¥`^^¥a`¥a_[^][L[^ZU][[RX¥_V^VU¥
@HWI-EAS443:3:82:1114:306#0/1
AGGTTCCAGTTGTCCCTAAGTGCCTGGACAATGAGAAGC
+HWI-EAS443:3:82:1114:306#0/1
aZTJa`_a]aQXaZa_UaX¥FU¥`]_[I^^`_]a^a]__^
@HWI-EAS443:3:89:1181:726#0/1
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+HWI-EAS443:3:89:1181:726#0/1
_aaaa`baabaP^a`^b]`_abaa^`_aaa`aaaa`_a^`
@HWI-EAS443:3:34:211:1230#0/1
ATTAAGCATCAATGAACTGAGCAACCTTGCAAAAGGAGAG
+HWI-EAS443:3:34:211:1230#0/1
``a`_`_a`Ya`_`_`^`_]¥^¥_`^`_]]]]X]^][
@HWI-EAS443:3:56:1089:30#0/1
GATATGGCCCAGCATTAAAGCATCAATGAACTGAGCAACCT
+HWI-EAS443:3:56:1089:30#0/1
aaaa`aaa`a`b_aa`_`a[^aV__a_]_¥_`^`^ZJ0`
@HWI-EAS443:3:44:1087:1148#0/1
CGCCGCTTTTCATTTCTGCTCTGGAGGTAGTGAAGGCGTT
+HWI-EAS443:3:44:1087:1148#0/1
`a`]a[`b]___a[ZH^b][`Z¥¥Q`BBBBBBBBBBBBBB
@HWI-EAS443:3:48:1321:262#0/1
TGCAACCTCCATGGCCTCTGCTGCCTGTTCACTCGATCCA
+HWI-EAS443:3:48:1321:262#0/1
aa^a^¥^a]¥_a``_a]``¥^a¥¥`W^U_S¥U`W¥UW
@HWI-EAS443:3:65:696:504#0/1
TGGGGTCTTCTTCTTGTCTTCCTGATGTGTACTTTTTGA
+HWI-EAS443:3:65:696:504#0/1
abZM^`abaaaa`a`aa_aa`aaa`````a`]_aaaaa_^
@HWI-EAS443:3:3:669:919#0/1
GCGGGGATCTTCTTCTTGTCTTCCTGATGTGTACTTTTTGAT
+HWI-EAS443:3:3:669:919#0/1
a`Z]¥S``ZG^¥`]]¥`a^^^a`]__R]WXZ_]_W_^
@HWI-EAS443:3:9:1403:1221#0/1
TGAGGGGTTGTTCTTCTTGTCTTCCTGATGTGTACTTTTTG
+HWI-EAS443:3:9:1403:1221#0/1
abIY_b_RaI_X¥I]^]aWUbaPa^b`aaT_Y_Z_a_aa_
@HWI-EAS443:3:100:1516:1298#0/1
AAAAAGTACACATCAGGAAGACAAGAGAAGAACCAAGCAC
+HWI-EAS443:3:100:1516:1298#0/1
`¥]YH_^ZYXRxa[`b`aaaaQ_]b^__aUaSUBBBBBBB
@HWI-EAS443:3:12:374:1799#0/1
GGGGGTTTCTTCTTCTTGTCTTCCTGATGTGTACTTTTTGA
+HWI-EAS443:3:12:374:1799#0/1
aaa`bY_a`aaaaba`_`a`_`_a^`_a_PL[V``]]`__
@HWI-EAS443:3:14:874:1591#0/1
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+HWI-EAS443:3:14:874:1591#0/1
`aaWQ^U[ZJS_a__YUa`Z`[¥`WT_S_T¥¥UYW0]
@HWI-EAS443:3:36:106:1029#0/1
GGGGGTTTCTTCTTCTTGTCTTCCTGATGTGTACTTTTTGA
+HWI-EAS443:3:36:106:1029#0/1
^`_`b]abbabaaaaababbaba¥ZY`a]`Z``a]a``VJ
@HWI-EAS443:3:51:602:962#0/1
AAAAAGTACACATCAGGAAGACAAGAGAAGAACCCGCACT
+HWI-EAS443:3:51:602:962#0/1
VW¥`bb^Y``[YUUP_Z^a^`b`¥RU¥RURZG]`BBBBBB

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+HWI-EAS443:3:73:1140:835#0/1
a_FW[aa[a_`aZW_`__R``]_a^_]_Za``_[Y¥`WDR
@HWI-EAS443:3:19:78:1476#0/1
CTGGGTTCTTCTNTTGTCTTCCTGATGTGTACTTTTTGAT
+HWI-EAS443:3:19:78:1476#0/1
aa¥[ZQaa^¥a[D[a`[]_¥aa]]_XaZaT____^_XN¥`
@HWI-EAS443:3:67:1667:1124#0/1
GGGCGGGGTTCTTCTCTTGCTTCCTGATNTGTACTTTTT
+HWI-EAS443:3:67:1667:1124#0/1
a`ZQ`]baYaZ__N[Ua¥`UZ^WQQZJWVDU¥X^U_ZUV¥
@HWI-EAS443:3:12:861:302#0/1
CGCGGGGGTCTTCTCTTGCTTCCTGATGTGTACTTTTTG
+HWI-EAS443:3:12:861:302#0/1
^bbaXZVGT¥_U__ZU¥_R_URaaa`PXaa]HG[`]GVZ^
@HWI-EAS443:3:35:113:1480#0/1
TGGGGCTCTTCTCTTGCTTCCTGATGTGTACTTTTTGAT
+HWI-EAS443:3:35:113:1480#0/1
¥¥ZRXR`b]H¥U¥`^`Y`aba`[[ZMXT[LV^W¥WHVQ^Y
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+HWI-EAS443:3:79:1280:276#0/1
`baabaaSZ^YV¥aZ__^ba_V]N¥b¥b``]b[aaa]__
@HWI-EAS443:3:85:196:418#0/1
CGCGGGGCTCTTCTCTTGCTTCCTGATGTGTACTTTTTG
+HWI-EAS443:3:85:196:418#0/1
aba_¥_aH^aZZR]b`aaU`a¥^a[]J_bY`Z_Z_`_a`H
@HWI-EAS443:3:10:593:2013#0/1
CGGGGTTCTTCTCTTGCTTCCTGATGTGTACTTTTTCGAT
+HWI-EAS443:3:10:593:2013#0/1
a_`bb`bbbbbbabb`abbbabbbaa_b_aa`_aa¥`aa
@HWI-EAS443:3:16:586:1752#0/1
GCGTGGTTCTTCTCTTGCTTCCTGATGTGTACTTTTTGA
+HWI-EAS443:3:16:586:1752#0/1
a`a`a`[_]aa¥`aaaaWa^`¥`_¥]WTTX__X`a[_`_`
@HWI-EAS443:3:25:508:1424#0/1
CGCGCGGGGTTCTTCTCTTGCTTCCTGATGTGTACTTTN
+HWI-EAS443:3:25:508:1424#0/1
S_```a`IXJYa_¥`Va^_][]^a]IMOZUFQQH`¥]WD
@HWI-EAS443:3:28:907:299#0/1
CGGGCTTCTCTTGCTTCCTGATGTGTACTTTTTGATTAT
+HWI-EAS443:3:28:907:299#0/1
Z_a`a_baba``bZZabbab`ab]]aa`S`bb`_bbbaa¥
@HWI-EAS443:3:59:1254:464#0/1
GGCGGGGGTCTTCTCTTGCTTCCTGATGTGTACTTTTT
+HWI-EAS443:3:59:1254:464#0/1
abaa^_¥_¥`_`a]````^]Ya```````_`WMZ^USV`^_
@HWI-EAS443:3:71:1584:1430#0/1
GGGCTCTTCTCTTGCTTCCTGATGTGTACTTTTTGATTA

+HWI-EAS443:3:71:1584:1430#0/1
_aM]a`b¥^[``Q`b]]__b`RUV^[^^aabXKY]Z_
@HWI-EAS443:3:75:1733:798#0/1
CGGTGTTCTTCTTGTCTTCCTGATGTGTACTTTTTGAT
+HWI-EAS443:3:75:1733:798#0/1
I^a`¥bb`b_bbbaba`bbbabb`aba_``babbbba_ab
@HWI-EAS443:3:7:441:450#0/1
CGGGGTTCTTCTTGTCTTCCTGATGTGTACTTTTTGATT
+HWI-EAS443:3:7:441:450#0/1
_babaRb`baab`abb¥[bb``]`abVV`aa_abbba_bb
@HWI-EAS443:3:82:614:1796#0/1
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+HWI-EAS443:3:82:614:1796#0/1
ab`U_ZM¥ba]_]ba^]Za^Zab_U_`]P^LU`__aY_]]
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+HWI-EAS443:3:88:783:1935#0/1
aa`Wbbbbbbbabbbbbb``abaa_`aaabbbba]a`b
@HWI-EAS443:3:89:1787:1287#0/1
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+HWI-EAS443:3:89:1787:1287#0/1
[`bbbbbbbabbbabbT^ababbbba]a`baaaaba_aa]`a
@HWI-EAS443:3:94:865:354#0/1
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+HWI-EAS443:3:94:865:354#0/1
aaZG]UU_`a]]aW`_`^`^Za_YRYS]^aSWZ]X___^a
@HWI-EAS443:3:98:641:1645#0/1
CGGGGTTCTTCTTGTCTTCCTGATGTGTACTTTTAGAT
+HWI-EAS443:3:98:641:1645#0/1
abbKYU_`VIQUa^^_S_[U¥TQUXZ]Pa^`_``¥WK[_S
@HWI-EAS443:3:36:1398:1892#0/1
ACGGGGTTCTTCTTGTCTNCCTGATGTGTACTTTTTGA
+HWI-EAS443:3:36:1398:1892#0/1
aabaaZ]abaaaa^a`Saa¥DYa`Z_a^_^]_^aaaa^N_
@HWI-EAS443:3:56:370:1816#0/1
GGGGGTTCTNCTTGTCTTCCTGATGTGTACTTTTTGAT
+HWI-EAS443:3:56:370:1816#0/1
`a¥abT_`MDM¥]_UQXUaS`Y¥TT[[S[[WU¥W``^W[[
@HWI-EAS443:3:84:842:869#0/1
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+HWI-EAS443:3:84:842:869#0/1
abbbba]bbaaaa_ab__ZD]aaaa^_Y_a__aaaaa_a
@HWI-EAS443:3:10:398:654#0/1
CGGGGTTCTTCTTGTCTTCCTGATGTGTACTATTTGAT
+HWI-EAS443:3:10:398:654#0/1
aabbaabbbbbbbbaabbabab`aa`b^aabaabbab
@HWI-EAS443:3:11:937:1204#0/1
GGGGATCTTCTTGTCTTCCTGATGTGTACTTTTTGATT
+HWI-EAS443:3:11:937:1204#0/1
ab_U`aababa_aa`^`aaa__NY`a_`^`^`_a_aa^`a

@HWI-EAS443:3:12:1054:297#0/1
GGGTTCTTCTTGTCTTCCTGATGTGTTCTTTTTGATTA
+HWI-EAS443:3:12:1054:297#0/1
aaaSa`abaaa_a___aa`_aa^`a^a_]aaaa`Y_`^_
@HWI-EAS443:3:12:1421:2033#0/1
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+HWI-EAS443:3:12:1421:2033#0/1
abbbb^bbaa`[HWbaa_bba_abaaa_aX`_bbaaa`a_
@HWI-EAS443:3:14:655:950#0/1
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+HWI-EAS443:3:14:655:950#0/1
a^X`HDXW^]¥_`SVSU_¥`__[_Y][¥^BBBBBBBBBBBB
@HWI-EAS443:3:15:1212:451#0/1
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+HWI-EAS443:3:15:1212:451#0/1
abaaVa`aaXa¥b)`^_a`TF¥`X^¥Za]a__a_a_`aa`
@HWI-EAS443:3:18:1693:1491#0/1
AGCGGGGCTTCTTGTCTTCCTGATGTGTACTTTTTG
+HWI-EAS443:3:18:1693:1491#0/1
¥HVV__aR`^aY[ba`a_Z^a_]a¥]_a0`^^]a___aU
@HWI-EAS443:3:1:676:867#0/1
GCGGGGCTTCTTGTCTTCCTGATGTGTACTTTTTGA
+HWI-EAS443:3:1:676:867#0/1
aYT`^XFY_`aY```]R]V]Y[Y`[^¥VG^WIDV]^B^BBB
@HWI-EAS443:3:20:709:1401#0/1
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+HWI-EAS443:3:20:709:1401#0/1
Z_[Z_YLaa[b``bb¥^¥STaUU`WJWQV_[R`U`¥`I`
@HWI-EAS443:3:21:562:1379#0/1
GGGTTCTTCTTGTCTTCCTGATGTGTACTTTTTGATTA
+HWI-EAS443:3:21:562:1379#0/1
a_`RY[a_a]a^W`H__`^a_a`]aHaW]_]__`^__W¥W_
@HWI-EAS443:3:21:947:343#0/1
GGTTCTTCTTGTCTTCCTGATGTGTACTTTTTCATTAT
+HWI-EAS443:3:21:947:343#0/1
a_Ya^aa_a```a_]__`]_a^[\`S_YYY_¥^][FV_]_^
@HWI-EAS443:3:22:1003:820#0/1
TCAAAAAGCACACATCAGGAAGACAAGAGAAGAACCCCGC
+HWI-EAS443:3:22:1003:820#0/1
VXX¥`X_XF]`aaZ¥YX^`aab[] [Z_¥`_Y][^OR[[Z[
@HWI-EAS443:3:22:1315:568#0/1
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+HWI-EAS443:3:22:1315:568#0/1
a``aaa_a`a`[_`_aaa_[¥Z_T__U¥[W[V]Z^YTY¥WZ
@HWI-EAS443:3:22:677:1051#0/1
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+HWI-EAS443:3:22:677:1051#0/1
aaaa¥^ [aa_a]aWaa`S^a__U`^__a]`X]^_^__^¥X
@HWI-EAS443:3:24:1251:367#0/1
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+HWI-EAS443:3:24:1251:367#0/1
¥QQ_YZW[]YW[_Y^_Z_¥PN]YY_X_WWZT_aZ]ZZ[S
@HWI-EAS443:3:26:1372:1970#0/1
GGGGCTCTTCTTGTCTTCCTGATGTGTACTTTTTGATT
+HWI-EAS443:3:26:1372:1970#0/1
]RXaT¥[aa_[YPY^_aW¥I¥_]Q`X`ZZ[PZ]]_VZXB
@HWI-EAS443:3:29:238:1669#0/1
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+HWI-EAS443:3:29:238:1669#0/1
U_`TIPR^Z^_¥aZ¥¥`_`a¥ab_TVbXHWRGY_`[_`¥H^B
@HWI-EAS443:3:32:1680:1857#0/1
CGGGGTCCTTCTTGTCTTCCTGATGTGTACTTTTTGAT
+HWI-EAS443:3:32:1680:1857#0/1
aa^a__HX`_`Y^]ZQbX]b`]ZV_Xb]^aMOab]_`a^aa
@HWI-EAS443:3:32:233:393#0/1
AGCGGGGTTCTTCTTGTCTTCCTCATGTGTACTTTTTG
+HWI-EAS443:3:32:233:393#0/1
^`abb_]`ab`_`a`aaab¥aaaaaYHHUUMNFT_^][^_]`
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+HWI-EAS443:3:33:1393:1924#0/1
abaab`aaYD]aaaa^aa]Y¥OR`a__a`_`TDT_WLHLV
@HWI-EAS443:3:33:501:1120#0/1
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+HWI-EAS443:3:33:501:1120#0/1
a`_`a[_`_`aaa]a`_`^aa]aa^0^¥¥V_¥_^^_`^^P^^
@HWI-EAS443:3:34:686:211#0/1
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+HWI-EAS443:3:34:686:211#0/1
aaa]XbPZGMTa_YRR^RP¥WQXLUNW]]SM_YQTXXV[B
@HWI-EAS443:3:35:1539:259#0/1
GCGGGGTCCTTCTTGTCTTCCTGATGTGTACTTTTTGA
+HWI-EAS443:3:35:1539:259#0/1
a^a`_`[DY`XUYTP_Z_]V^UZ_[UWY`^aYXYZ]]Y[YZ
@HWI-EAS443:3:36:834:1302#0/1
CGGGGATCTTCTTGTCTTCCTGATGTGTACTTTTTGAT
+HWI-EAS443:3:36:834:1302#0/1
aaS]¥F)`_`_`[_`Ta`]P`[[Yaa]¥LaZ^U`¥Y`¥UV_
@HWI-EAS443:3:40:1229:1087#0/1
GGGGTCTTCACTTGTCTTCCTGATGTGTACTTTTTGATT
+HWI-EAS443:3:40:1229:1087#0/1
a]__^a_^]X__aY]Y^`]WXPVYV¥V]TP¥^_VO^^Y
@HWI-EAS443:3:42:586:480#0/1
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+HWI-EAS443:3:42:586:480#0/1
ab_Y]JTa`aUQQ¥JaQTZWYaa¥[X^FTUHU^__a`[V[
@HWI-EAS443:3:4:1376:79#0/1
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+HWI-EAS443:3:4:1376:79#0/1
a_bab_[_abaabU`aYZ`_`_`¥_ab^a_H_]^Vaaaaa_`

@HWI-EAS443:3:51:732:1225#0/1
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+HWI-EAS443:3:51:732:1225#0/1
]XX`_ZDY_ba[a_a]aa^a`¥S_¥0[]S¥RZZ`aba`Y¥
@HWI-EAS443:3:53:1348:1793#0/1
AGCGGGGTTCTTCTTGTCTTCCTGATGGGTACTTTTTG
+HWI-EAS443:3:53:1348:1793#0/1
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@HWI-EAS443:3:56:210:1523#0/1
GGTTCTTCTTGTCTTCCTGATGTGGACTTTTTGATTAT
+HWI-EAS443:3:56:210:1523#0/1
[V\$abbaaaba]^¥V`aaaa`a`¥G`_aa`aba_aa`a
@HWI-EAS443:3:58:720:1244#0/1
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+HWI-EAS443:3:58:720:1244#0/1
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@HWI-EAS443:3:58:821:879#0/1
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+HWI-EAS443:3:58:821:879#0/1
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`¥`ab`_`Ya_Y``^aa_b_a`^[]``[`a^`P¥_a_dUa
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+HWI-EAS443:3:17:1083:1892#0/1
a`^^¥D[bb¥_``aZb_a`aaaaa`_`aZ_]```_aa`aa

@HWI-EAS443:3:17:1321:702#0/1
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ab`a[_a_U_Z¥U]aa_`^`aVW¥MS^`YaX]W^`XD^NZ^

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+HWI-EAS443:3:28:799:56#0/1
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+HWI-EAS443:3:53:872:1368#0/1
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+HWI-EAS443:3:55:575:1220#0/1
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@HWI-EAS443:3:63:260:1246#0/1
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` ` _ab`¥DW^`_`^]Z¥b`aZ[Z]S]QF]__X]ba`aRZ_

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a^aaaaY_aa```a_¥]X]`_aa_XNY_P_Y__ZX_Z]LZ

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@HWI-EAS443:3:34:1185:696#0/1
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+HWI-EAS443:3:34:1185:696#0/1
^bbabbbbab`bbbbabbb`abbaabaaaa`aaaZa`aa`
@HWI-EAS443:3:38:1565:1619#0/1
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+HWI-EAS443:3:38:1565:1619#0/1
¥[^_bb^bbaaPDW]Z¥`^P[aXaT^a``Wa[Y[U]`WFH
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+HWI-EAS443:3:46:892:348#0/1
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+HWI-EAS443:3:56:410:1529#0/1
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a^Q[_WQ^V_``SFZ__`_QZ[^YX_UQY_N[N[]YVZZ
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+HWI-EAS443:3:59:145:1317#0/1
a_V_b`[^b¥baabb`aVZK¥aab^^^b```SaYMG]UZ]
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^¥_Z^`¥_X¥baa]b`[Y^`a[a^XZ_bZ`ZZ[`¥]U_¥
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+HWI-EAS443:3:67:1626:830#0/1
ab_``^abbabababbabbabbabb]`]aabbbaa`
@HWI-EAS443:3:69:711:756#0/1
GTGGGTTCTTCTTGTCTTCCTGATGTGTACTTTTTGA
+HWI-EAS443:3:69:711:756#0/1
`X^a`^¥aaaaaa`aaa_`aaaa`ZT^¥^X¥_`_a__[_
@HWI-EAS443:3:75:607:798#0/1
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+HWI-EAS443:3:75:607:798#0/1
a_^`aa_[¥_X`WORR__^WVZ^`XUMRPYNVX[VU^^`
@HWI-EAS443:3:81:1489:262#0/1
CTGGGTTCTTCTTGTCTTCCTGATGTGTACTTTTTGAT
+HWI-EAS443:3:81:1489:262#0/1
ab`][_`abb`bXbbab_`b__`]]¥U_b_a_b`aba^b
@HWI-EAS443:3:85:352:611#0/1
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+HWI-EAS443:3:85:352:611#0/1
a]_`XV^[_Z`X]]V`ZX]UYW^]]ZTR]UWYTRVWUW
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+HWI-EAS443:3:8:1009:1576#0/1
aXa_aV_RaaaaU]¥`^`PT^ZWP[TW__X`SYW¥^a]W]
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+HWI-EAS443:3:93:102:63#0/1
abbbbaabaaa]]Zaaba_aaaaaa`ab_a^WSZ`aaaa_
@HWI-EAS443:3:95:80:1962#0/1
GTGGGTTCTTCTTGTCTTCCTGATGTGTACTTTTTGA
+HWI-EAS443:3:95:80:1962#0/1
aYaaaaT_`aaaaaaaa^ba``aa___`]]NW]]_```Z_

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+HWI-EAS443:3:99:732:1520#0/1
``baa`^a`_a_a]`b``_aaa`a]_`W]__^`_aaa`_^
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+HWI-EAS443:3:9:314:220#0/1
a_bbab^bababbb`aa`abbb]aaZ``a]`aaaa`_a_
@HWI-EAS443:3:100:1402:1692#0/1
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+HWI-EAS443:3:100:1402:1692#0/1
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+HWI-EAS443:3:100:1611:908#0/1
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+HWI-EAS443:3:10:1520:176#0/1
a``_`^V_X_]_Z_^]YZ`^]Z]]ZX^Z_ZZZ^^Z^^ZZZ
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a^aa]]L]a`aa`a`a`LL]a^^]`^`_Za`[_aa_a___
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+HWI-EAS443:3:11:751:581#0/1
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@HWI-EAS443:3:12:1243:996#0/1
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+HWI-EAS443:3:12:1243:996#0/1
abbaa`a`aa`aW`aaX_aa_¥`a[_a]a]^^__a^`____
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+HWI-EAS443:3:13:1211:1463#0/1
abaaa]a`abaaa``bba`aa¥[baaaa_b``_a`aaaa
@HWI-EAS443:3:13:1302:825#0/1
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U^_bba_Na]a^Z^^¥`[_Z¥aZ¥^]`aaab^aaaaaaL
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+HWI-EAS443:3:14:1319:343#0/1
aabba]a_ab`a`aaa`aaa`[aa_aa`a`_aaaaa`_a
@HWI-EAS443:3:14:346:1220#0/1
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+HWI-EAS443:3:14:346:1220#0/1
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+HWI-EAS443:3:15:877:1779#0/1
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+HWI-EAS443:3:16:1053:1233#0/1
a`_`[Yababaaabaa`aaaaaaa`_a_]_aa_aa_a
@HWI-EAS443:3:17:162:1254#0/1
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+HWI-EAS443:3:17:162:1254#0/1
aa_^a`Gbaa_aa`a_`[aa_^aa¥`^T^W]_a``_`^
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+HWI-EAS443:3:17:1726:259#0/1
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aaaa_Ua^aa_`aa__aa]__`]`^Z`]^Z_____ [W^
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+HWI-EAS443:3:18:1657:1042#0/1
^Y¥_W[Ja_`_`baa^P]aaa]UUXD¥YYSQY]aaa^^LW
@HWI-EAS443:3:18:322:1716#0/1
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+HWI-EAS443:3:18:322:1716#0/1
a_a`YQaba]aaaa_`Ibaa_aQPP_`¥¥¥UY`__¥][ZT
@HWI-EAS443:3:18:576:1493#0/1
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+HWI-EAS443:3:18:576:1493#0/1
a^[W^_LX`_`_a_¥YV]a`^[] [RZ]^UXW_T^`[^XRZ
@HWI-EAS443:3:18:67:402#0/1
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+HWI-EAS443:3:18:67:402#0/1
a_aaa_aH__`a__^a^_]_`_^ [[]^_V^V]Y^`_]_S
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+HWI-EAS443:3:1:1616:314#0/1
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+HWI-EAS443:3:1:913:1304#0/1
`_a`b¥G¥WaU_`U¥a^VW_VPMY_a_YMS_XWW_]XB BBB
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+HWI-EAS443:3:21:1086:1460#0/1
aaaa`R_PV_`a_`YX[aaa__` `[¥GU_Z^_a___ZYU^
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+HWI-EAS443:3:21:265:1155#0/1
aa```a`]aWaaa_^aa`_aaa`X` [Y^a¥_W_aa^a¥`_`

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+HWI-EAS443:3:22:976:452#0/1
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@HWI-EAS443:3:24:1281:164#0/1
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+HWI-EAS443:3:24:1281:164#0/1
H_bababbb_aba`Xa``¥b`bab[babb]bbbbabbb`b
@HWI-EAS443:3:25:1180:1598#0/1
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+HWI-EAS443:3:25:1180:1598#0/1
^]__babbbbaaba^`a]`aaaa`a_`Waa_a_[]`
@HWI-EAS443:3:26:1096:826#0/1
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+HWI-EAS443:3:26:1096:826#0/1
a`babb_a`bbababaa`aaaa`aa_aa__`]aaaaa]`
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+HWI-EAS443:3:27:423:281#0/1
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@HWI-EAS443:3:27:701:611#0/1
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+HWI-EAS443:3:27:701:611#0/1
aabbbab]`aab_aabaaaab_a`¥_`T`^a``aabbU
@HWI-EAS443:3:28:1577:1473#0/1
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+HWI-EAS443:3:28:1577:1473#0/1
aa[¥PQP_^]Z]XZZW_QW¥QNa_HS_OUN_L`Y^Xaaa]
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+HWI-EAS443:3:28:938:270#0/1
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+HWI-EAS443:3:2:196:562#0/1
`b_aa^]__a`aI`U^`¥¥¥`Y`¥X_Y^a]^Z^U^UW^¥`
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+HWI-EAS443:3:2:623:1346#0/1
a[P_¥YLQZ¥[a[_`ZY^¥`_a¥R``[[bYUGQG`Z]¥a]
@HWI-EAS443:3:30:1173:298#0/1
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+HWI-EAS443:3:30:1173:298#0/1
`aba^^`aaba`VZabY`_a¥_aa_____aW`^a`_____]
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+HWI-EAS443:3:30:505:1236#0/1
S_TV_V¥^¥¥¥^^bab]_b_a`^^[W_`Ua^b`^abbb_G
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+HWI-EAS443:3:32:956:233#0/1
^`b]_]¥aa]aa`aa_aa`_`ZSP_aZ_]`^`_```a__^
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+HWI-EAS443:3:34:1371:92#0/1
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@HWI-EAS443:3:34:495:1580#0/1
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+HWI-EAS443:3:34:495:1580#0/1
`]aa]]][Q]aZW`_]][N^YYTXSPRQWLVMQYZ[^XZV
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+HWI-EAS443:3:37:162:1976#0/1
[]F[XUba]`baaaZ¥¥a`abba_^X_aXKLY¥]]`]]]a
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+HWI-EAS443:3:37:217:191#0/1
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+HWI-EAS443:3:37:236:825#0/1
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@HWI-EAS443:3:38:1357:1328#0/1
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+HWI-EAS443:3:38:1357:1328#0/1
`bb]V_R[]aba¥`^^¥_aaa```a^`WY[Y[]_```_a]
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a^aaa_aYaa]aa_aaba`^_b^_`YRYA^¥VZ^_a`a_J
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+HWI-EAS443:3:3:345:321#0/1
a^Y^baa]^Z``[]]T_aYY]_]`_V^_X_YYGX^^Y_Q
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+HWI-EAS443:3:3:773:469#0/1
UaabaaU_a_b¥^a`¥Tabaaaa`[a]b_^_b_aa^b[`a
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+HWI-EAS443:3:3:884:610#0/1
ababb_bYaaba¥Z¥Sa_`^aa] []`a^T^¥_Ya]aa^¥
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+HWI-EAS443:3:43:11:1285#0/1
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@HWI-EAS443:3:43:72:1217#0/1
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aba`aa^aaaaaaabb__aa_aaa`a_a__^aaaa`^
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Q`[_`^`L[bbb]b][¥[_`bb]RN[a`_`PZ]bbb`a`
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a`ba`]aa_aX`_`a`^`a`_`a_[__^`V^^a_a`_`¥]
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G[S_XYXbbb_PO_b]bb_a_ZW¥aYa¥Y_XVX]Y`b^[Z
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``_a____Z^[_]`^`_¥_X¥_`]¥VY`ZZNXX[`^a[Q
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_`_b_aaaba`b^_a`baa_a`aVWT`]¥`a^`SZ_
@HWI-EAS443:3:49:298:1890#0/1
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+HWI-EAS443:3:49:298:1890#0/1
a`a^Ta]Y)`a]aa^Sa^[aaZ`]a_aW^0a__`¥PZa
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+HWI-EAS443:3:4:1515:769#0/1
a^^`Za__`_]_T`_]_`^PR^UW^_X`XZZ^_]_^]B
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+HWI-EAS443:3:50:1661:1234#0/1
a_`abaZ_]`U_```abab`Yaa_X`Z[a`__[^_``aaa
@HWI-EAS443:3:50:1689:359#0/1
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+HWI-EAS443:3:50:1689:359#0/1
aabbbbaQa_a^Va`bbbaab_T¥aa`]^TbY`Zbabab¥Z
@HWI-EAS443:3:50:866:1462#0/1
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+HWI-EAS443:3:50:866:1462#0/1
a`^_a]^PWV¥UXZT_¥WRVYVQV¥XU]WFZQRRZRZ^ZB
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+HWI-EAS443:3:53:730:1031#0/1
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+HWI-EAS443:3:54:201:831#0/1
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+HWI-EAS443:3:54:292:1684#0/1
Xa__bZ`bb`]aab`¥`babb¥a]^aWHWXa`bbbaaQ[b
@HWI-EAS443:3:54:332:1446#0/1
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]]YV]P]_bb[aa`aaYaaa`a]YTZbY^XPTa¥^___S`
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aa`^__Ua_abUaZa`__`aWT]H]_¥`W__Zaaa``W_
@HWI-EAS443:3:54:664:425#0/1
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+HWI-EAS443:3:54:664:425#0/1
_`aaaaXN_W`Y[_Z¥```]ab]^¥^`b`Z_XSM^ba^[R
@HWI-EAS443:3:55:551:541#0/1
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+HWI-EAS443:3:55:551:541#0/1
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+HWI-EAS443:3:56:892:443#0/1
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@HWI-EAS443:3:59:1410:69#0/1
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+HWI-EAS443:3:59:1410:69#0/1
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@HWI-EAS443:3:59:827:637#0/1
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+HWI-EAS443:3:59:827:637#0/1
abbbba^aaaaaaaaaaa`aaa``aaZ`a^a^_Waaa^Y¥¥_
@HWI-EAS443:3:59:948:897#0/1
TGGGGTTCTTCTTGTCTTCCTGATGTGTACTTTTTGAT
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aaa_a_a^a`_aaaaa_Za`aaaa`_`_a^WVaaaYWVZ]
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¥`]_X_a[_a]YQ^_a^¥` `__[^` [[] `UaYX[^]_^]_
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a`aa`^QZbaaa\_X[aaZ[[a\_``a`\_a]a\_`a[`]\_Z\_]`  
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+HWI-EAS443:3:20:271:360#0/1  
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+HWI-EAS443:3:20:580:543#0/1  
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+HWI-EAS443:3:20:630:280#0/1  
aa`¥¥R[SY¥a¥\_T\_YY`]^]\_^¥RZMNxVZ^ZX]ZZ^Z]  
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+HWI-EAS443:3:20:802:516#0/1  
a`ZUFN¥]]Y\_L[¥bWY[U]`\_`¥\_^X[X\_¥\_`^^Z^Z^]  
@HWI-EAS443:3:20:865:1049#0/1  
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+HWI-EAS443:3:20:865:1049#0/1  
aa^aa^aZWWa`a\_`aSaa\_aYa\_]a^`U\_\_\_a\_\_^^][  
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+HWI-EAS443:3:21:1621:117#0/1  
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@HWI-EAS443:3:21:1650:1367#0/1  
CGGGGTTCTTCTTGTCTTCCTGATGTGTACTTTTTGAT  
+HWI-EAS443:3:21:1650:1367#0/1  
a]a]a\_a^bbaa]`a\_\_\_a[[^a`\_\_`]a\_¥]a```W]`\_  
@HWI-EAS443:3:21:1736:1225#0/1  
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+HWI-EAS443:3:21:1736:1225#0/1  
a\_] ^YU\_¥aa`a`aaa\_\_a\_]aa^^]Za\_\_Xaaaa¥PYa  
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+HWI-EAS443:3:21:244:1112#0/1  
a`¥^UPR`ZYY¥\_\_\_]PYV\_aa\_]\_`¥V\_W\_]\_\_\_^XR^^  
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+HWI-EAS443:3:21:568:1638#0/1  
aaa`a[aaaaa`b`^`^`[`aaaaS^\_`X[Y\_^a\_a\_a\_``  
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+HWI-EAS443:3:21:649:38#0/1  
`[\_^]N^\_ZZQVGW¥`ZLLWQ\_X\_JSY[VXNT]¥Z¥`¥X  
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+HWI-EAS443:3:21:813:107#0/1  
aaaa\_aaa`\_a\_```]¥`a^X^\_]Z\_Z`WXW\_^\_]\_\_^]  
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+HWI-EAS443:3:21:865:1057#0/1  
¥\_b```b\_`bbabaab`b\_b`^^a`aXaaOb\_\_`a`a`a[  
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+HWI-EAS443:3:22:1101:878#0/1  
]R]Vsx\_]GZ]ZUZZ]N[V]U[ZZLZMP[X^`¥^]¥UY\_  
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+HWI-EAS443:3:22:1181:807#0/1  
aa\_aba]\_\_\_`\_\_¥``\_^a\_\_Z`^X]\_Z\_ZXX^`X`^]  
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+HWI-EAS443:3:22:1223:1796#0/1  
```aa`\_aaabaaaa\_a\_aa^aaaa]a^aZa`a``Y\_  
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+HWI-EAS443:3:22:1247:1123#0/1
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@HWI-EAS443:3:22:1247:96#0/1
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+HWI-EAS443:3:22:1247:96#0/1
RTNOb_T[U]¥`a]_aa_¥_]__aRNOZV^XYN_a`aaY`
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+HWI-EAS443:3:22:159:1237#0/1
a`a_`Y`aaa``[_``_a`````_^_^Z`Y]_a_``]¥`_`

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+HWI-EAS443:3:22:27:1022#0/1
aa`_`a_baababaaaaaaaaaaaa`aa_a^]^aaaa^U[
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+HWI-EAS443:3:22:552:931#0/1
aaaa`]aaaabaaaaabb`Y^`a^a^`_a_a_a`a`
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+HWI-EAS443:3:22:632:1132#0/1
]babaa¥_aYbbbaabb`aaaaa`Z]aaaa`_aaa__a
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+HWI-EAS443:3:22:64:693#0/1
`b_aa_baa]bbabb`bbba]``aa`b`¥abbaab`b
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+HWI-EAS443:3:22:764:60#0/1
aaa`^`aaa`a_aaa`_a`_X````_Za]^a^`^`^`____
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¥¥XWV[¥^TGZ_a¥Y¥^`_`¥V¥`TaXTG]aaaaJJ]^a
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^_X`aa`aa__`a`]aaaa`]]^`_^]Uaaa``aZ¥aa¥
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ab`_aa[_abababbbbabbaaaabaZa`ababaaaa
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+HWI-EAS443:3:22:988:867#0/1
aaR[^aa`_`a]Uaa]_]WT¥_YaX`X`^`_`XV^`^^
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+HWI-EAS443:3:22:998:765#0/1
a_¥_R^X_][]SW`STV`_TRZ_U_]Y^]SQY`X`_]¥¥Y
@HWI-EAS443:3:23:1059:245#0/1
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+HWI-EAS443:3:23:1059:245#0/1
aaa[aaaaaa`aaa_aa__`__^_]_]^^_aa^`__`_]
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+HWI-EAS443:3:23:1396:168#0/1
aaZRY¥TY__aY_]XLZ`Y^[ZR[[[aUQF[_]_[NR]
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+HWI-EAS443:3:23:1428:1210#0/1
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@HWI-EAS443:3:23:1749:245#0/1
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+HWI-EAS443:3:23:1749:245#0/1
ab]__aaa_aba_ba¥aa`^a_WaZxa__^_aaZ]0[a^B
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aaa^Gbaaaa`aaXV[aa`W_[a^^]¥Z_^`^`_^_`^
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+HWI-EAS443:3:23:496:86#0/1
abZaa__aa`aa`[^`^^`^]`^^^XX^`^^_]^^]Z
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_b`_aabbbbbaaaaaaaaaabaaa_a]¥]aaaa`_Za`_
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+HWI-EAS443:3:23:747:1493#0/1
_T¥EPT_Z]Y[``_]a`]UWTUXYLFPL]W_¥_]Y`_ZY
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]aaY[b]aZY`¥`Zaaa`bVN¥ZaY^aabMYaaa_^aaa
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+HWI-EAS443:3:23:914:1697#0/1
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+HWI-EAS443:3:24:1014:1356#0/1
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+HWI-EAS443:3:24:1037:778#0/1
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+HWI-EAS443:3:24:1144:1859#0/1
^¥¥`b`bb_G_abb`bb^XY^]Z]]ba^a`^^^`bbXN_a
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+HWI-EAS443:3:24:434:1690#0/1
ab`_a_bbb```bbaaaaaabaaVa`a^¥^a`a``_a]aa
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+HWI-EAS443:3:24:830:599#0/1
¥` `b¥bbb_[b`Y]Ybaa`XS^_a`a¥`aaaaba^a___a
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+HWI-EAS443:3:25:1003:99#0/1
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+HWI-EAS443:3:25:1181:1209#0/1
abaaa]U]^aaaaaaa]_T^`[_`a^[UV`[SS]a` `aV¥
@HWI-EAS443:3:25:1313:1489#0/1
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+HWI-EAS443:3:25:1313:1489#0/1
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+HWI-EAS443:3:25:1581:1471#0/1
a^_`b` `a[a`aa_ba_aaa_0¥aX_RY]aa`^¥[a_^U
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+HWI-EAS443:3:25:1585:231#0/1
aabbbab`babb`b_bb``_aa__ba_a`^`a_Wabaaa[
@HWI-EAS443:3:25:1686:1388#0/1
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+HWI-EAS443:3:25:1686:1388#0/1
a]a`babbabbbabbab`bbaabb¥bbaa]`Ybbbbbbab
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aba_[_PPX[____^__`U__¥Y_^[WZZZ^Y¥¥¥¥¥^¥[VT
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aa__ba]__WTPaUWT]__]_S`Q`T_G`][^_]_XUV¥^
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a`^XXa_aSD¥_``_`]¥RY`VU[_U^O]]_`^_W_YU`_
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+HWI-EAS443:3:26:1063:1498#0/1
^``[¥Y_V¥a_X_0¥[¥Y¥_`I_a¥W¥_T_TU¥^_ZY¥^[
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a_S]XTKXY__a]]_`YY^¥`YW]]_`X_W[_[_]`]PZ
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@HWI-EAS443:3:26:1373:755#0/1
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+HWI-EAS443:3:26:1373:755#0/1
a_]Y¥]__^aZ^aYa^WU_a[a`a`a``R`^a`ab_]a
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+HWI-EAS443:3:26:1691:615#0/1
abaW_Wa^[]]aaa]X``YL_a__aYa]_U_a_^_¥^_AY
@HWI-EAS443:3:26:279:580#0/1
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``aaYaa_[aabXbb[YVXbaVWZVNY]PVYa[aa_`____
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+HWI-EAS443:3:26:691:738#0/1
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+HWI-EAS443:3:26:814:836#0/1
`a_T]a[aabbbaaa]aX]]ab]Xa`^Waab`a`ba_X]b
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+HWI-EAS443:3:26:899:1046#0/1
aa`^baaaabaaaa`baaaaa^aa_a^_aaaaa_a`a
@HWI-EAS443:3:26:926:1329#0/1
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+HWI-EAS443:3:26:926:1329#0/1
aaa_Z`aa`aa`___`a`^a]_X_]`^`__a^__^
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+HWI-EAS443:3:27:1167:1855#0/1
a_GN^X`aHY^UbYa`IZS^a_XNGQ`^^SUUXS¥ULL^]
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+HWI-EAS443:3:27:1187:1073#0/1
aXYaS¥[a]¥[^_WYW[``]``_UZ_TZY_^^``^^]]`W
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+HWI-EAS443:3:27:167:1178#0/1
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+HWI-EAS443:3:27:274:1646#0/1
a_P_Q¥````^`a`]P_[`aaV]`[RY_Z^T]a]]_V_`
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+HWI-EAS443:3:27:397:1130#0/1
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+HWI-EAS443:3:27:900:1291#0/1
^X[Z¥a]ab`U`ab`_]baaaaba_baV``aaaa`a_W
@HWI-EAS443:3:28:1489:208#0/1
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a`¥`a0]^abaaaaaa]``_`^Y__¥_V_PTY[____^[^B
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a_baaa^aaa`_a`_aa¥^`_S[a`_[]]`_`^`_`_a`Y]
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¥^Y``La^^UZyU`_`_Y_ab^a]V¥T_YQ[GV]aZN¥I`_
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+HWI-EAS443:3:57:1707:1319#0/1
`_```ba]aab``a_a``a^a_ZZ`a_a`ZX¥__a```¥V
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+HWI-EAS443:3:57:410:1319#0/1
]`_bbaabb`bbabbbbbb`aaa`Y_ab_bbbbaabaa
@HWI-EAS443:3:57:628:581#0/1
CGGGGTTCTTCTTGTCTTCCTGATGTGTACTTTTTGAT
+HWI-EAS443:3:57:628:581#0/1
abb_``baaaaaaaa]aa`aaa```a_a]__aaa`a[Va
@HWI-EAS443:3:57:888:1014#0/1
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+HWI-EAS443:3:57:888:1014#0/1
`_baaa`bbbabababaaaabaabaaaa`¥_aaaaab`a
@HWI-EAS443:3:58:1004:296#0/1
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+HWI-EAS443:3:58:1004:296#0/1
a`baaa_a_aa`a_aabaaaaX[¥a_```[a^_```aa_`__
@HWI-EAS443:3:58:1094:319#0/1
GGGGTTCTTCTTGTCTTCCTGATGTGTACTTTTTGATT
+HWI-EAS443:3:58:1094:319#0/1
aaa_T``^]a¥```^_`_^_¥_`X`Y]]a`_``_^_^

@HWI-EAS443:3:58:1145:936#0/1
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+HWI-EAS443:3:58:1145:936#0/1
a][¥V`aa`^^^a`W^a]^^^WZ__YV[ZZa`^a¥U¥__
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+HWI-EAS443:3:58:1302:1537#0/1
aaaaabb[bYba]X_R^aa`¥__aYa¥W^ba`ba`^Y[Wa
@HWI-EAS443:3:58:1383:686#0/1
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+HWI-EAS443:3:58:1383:686#0/1
a¥` `]a0aPZ` [¥[¥[aN_aW[Z`^U^_^T^^_¥__ `V
@HWI-EAS443:3:58:1486:606#0/1
CGGGTTCTTCTTGTCTTCCTGATGTGTACTTTTTGAT
+HWI-EAS443:3:58:1486:606#0/1
abbb__baabababbbbaabaa`a`_abaa_a_bbaab`aa
@HWI-EAS443:3:58:719:964#0/1
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+HWI-EAS443:3:58:719:964#0/1
a_V^GP_N[UW¥a`XU`X`]QNVU¥^T[XJO_`W__UN]`
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CGGGTTCTTCTTGTCTTCCTGATGTGTACTTTTTGAT
+HWI-EAS443:3:58:745:201#0/1
a`a` `¥¥`a_U_`]^a_a` ` ` _aaV`b`aZ¥`a`aaa]__
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+HWI-EAS443:3:58:986:1119#0/1
aaa¥`bUbbbbbbaabbaabbaaaaaaabbbbb`a
@HWI-EAS443:3:59:1186:1175#0/1
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+HWI-EAS443:3:59:1186:1175#0/1
Zbb¥00b¥^`bbbabb`aaaa`aUaa`aa]Tbaa]^a`T
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+HWI-EAS443:3:59:1567:1439#0/1
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+HWI-EAS443:3:59:1569:903#0/1
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@HWI-EAS443:3:59:1580:1799#0/1
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@HWI-EAS443:3:59:576:109#0/1
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+HWI-EAS443:3:59:576:109#0/1
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+HWI-EAS443:3:59:819:380#0/1
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+HWI-EAS443:3:5:1423:476#0/1
^_ba`^b^ZT`bba¥¥`_`abb]ab`_b^bab^`_`_`aBB
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+HWI-EAS443:3:5:1480:471#0/1
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+HWI-EAS443:3:5:1574:1615#0/1
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+HWI-EAS443:3:5:1661:1486#0/1
ab`aXaYYZP`VYaa_a`^^`a[_a`M¥PY`````[W¥B
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+HWI-EAS443:3:5:220:1181#0/1
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@HWI-EAS443:3:5:302:1683#0/1
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+HWI-EAS443:3:5:302:1683#0/1
[baa[Kb``¥b_Vab`Uaba_bb[b[baab`_Wbabaab
@HWI-EAS443:3:5:476:1208#0/1
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+HWI-EAS443:3:5:476:1208#0/1
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@HWI-EAS443:3:5:575:935#0/1
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+HWI-EAS443:3:5:575:935#0/1
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+HWI-EAS443:3:5:719:1238#0/1
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@HWI-EAS443:3:5:813:1205#0/1
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+HWI-EAS443:3:5:813:1205#0/1
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+HWI-EAS443:3:5:823:657#0/1
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@HWI-EAS443:3:60:118:1245#0/1
CGGGGTTCTTCTTGTCTTCCTGATGTGTACTTTTTGAT
+HWI-EAS443:3:60:118:1245#0/1
aaa¥^¥aaaaaaa^aaa_¥aa`a]_Y_^``a`_Z^_
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+HWI-EAS443:3:60:1622:704#0/1
a``a`_]a`ab`a^aa]``_]_____aZa^_Z`a`a_Z_
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@HWI-EAS443:3:60:1708:806#0/1
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+HWI-EAS443:3:60:1708:806#0/1
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+HWI-EAS443:3:60:460:408#0/1
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+HWI-EAS443:3:60:78:1779#0/1
ab^[_Za`aaaaaaa_aaaaa_a`_]_^a__`_¥`_
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+HWI-EAS443:3:61:1150:630#0/1
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+HWI-EAS443:3:61:1211:1381#0/1
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+HWI-EAS443:3:61:1224:1179#0/1
aa^bb]aabbabbaabbbbbbbaa`aaaaabbaa[_a
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+HWI-EAS443:3:61:1263:339#0/1
a[W^U]_[^R^^YWX[ZU[ZZPS^R`X¥SWU¥X¥_YXWPU
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@HWI-EAS443:3:61:182:201#0/1
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+HWI-EAS443:3:61:182:201#0/1
a`bbb[aabbb^bbab_aaaaa^T^a_a` ``aaa`a¥^`
@HWI-EAS443:3:61:196:367#0/1
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+HWI-EAS443:3:61:196:367#0/1
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+HWI-EAS443:3:61:239:516#0/1
aaaaa]`bab`aab_a`aaaa`_ZI¥a_aY]^__` ``_¥`
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+HWI-EAS443:3:61:349:212#0/1
abbbba¥abaaaaaa`a`_aa¥ZZ`a_a[¥¥` ``__`_`_`
@HWI-EAS443:3:61:767:903#0/1
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+HWI-EAS443:3:61:767:903#0/1
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+HWI-EAS443:3:61:919:1705#0/1
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@HWI-EAS443:3:62:1001:514#0/1
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+HWI-EAS443:3:62:1001:514#0/1
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@HWI-EAS443:3:62:1261:276#0/1
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+HWI-EAS443:3:62:1261:276#0/1
a¥^a_aWYU`^`_¥a` `[¥a^Z]_[0]]ZaXZXa` `^`Z]
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+HWI-EAS443:3:62:1333:1052#0/1
`]a]^¥ZUZ¥bb__UZS¥]a`aZ]NV[]VPY` `P^¥XR`P
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+HWI-EAS443:3:62:1420:1618#0/1
¥abbbbbbbbab`_baaabbabb]`ba_bab_bbaabbbb
@HWI-EAS443:3:62:158:240#0/1
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+HWI-EAS443:3:62:158:240#0/1
ZY`¥` [_____[`a`_aU¥aZ`a`W]_a_aYU¥a_aa` [` [

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+HWI-EAS443:3:62:279:1449#0/1
aa]`]aaaaaaaa^DWaaa````_`aYUY^a_`a``U¥`^
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+HWI-EAS443:3:62:333:973#0/1
a_bab_bbbbbbaabaabaaaa`_aa``_¥_aaaa[Ta
@HWI-EAS443:3:62:625:576#0/1
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+HWI-EAS443:3:62:625:576#0/1
aa0^bbbaaab`^_abbaaaa_a`_a``_a_]a[a_``a_
@HWI-EAS443:3:62:674:983#0/1
CGGGTTCTTCTTGTCTTCCTGATGTGTACTTTTTGAT
+HWI-EAS443:3:62:674:983#0/1
aV]_NF` `[XRXL[ZHUa_aa_VOOMMO¥G[RVS^]_XP]
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+HWI-EAS443:3:62:737:723#0/1
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`_LYbba_abb^``^a]b``][_¥a`aaaa]_Q]a_VY
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+HWI-EAS443:3:63:563:219#0/1
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abbb`[bab```_a]aa`]_¥WW_V¥Y0][W^]]`a¥TZ
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+HWI-EAS443:3:63:757:900#0/1
aaa^a`a_`aaa`aa`a_``aaaaaa`_]_[^aa`a__
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+HWI-EAS443:3:63:797:1449#0/1
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+HWI-EAS443:3:63:807:1109#0/1
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+HWI-EAS443:3:64:1312:1580#0/1
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+HWI-EAS443:3:64:1764:737#0/1
`a``¥`a_aa``b^_]ab_¥`bba_¥`a`_`Wa`baa^a`
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+HWI-EAS443:3:64:23:266#0/1
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+HWI-EAS443:3:64:576:1789#0/1
a^TWXMWa]]W]a]__^____]aJFWYVW_N____aXXPZZ
@HWI-EAS443:3:64:698:299#0/1
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+HWI-EAS443:3:64:698:299#0/1
aa`ba[a_aaaaaaa^_aaaaaa¥^a]^_`^_aaaaa``a

@HWI-EAS443:3:64:744:1191#0/1
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+HWI-EAS443:3:64:744:1191#0/1
a`^]]R]V`aX_WVZ^`]Z`_RYJT][G[P^]aaW_a`__
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+HWI-EAS443:3:64:76:99#0/1
aba_aGa]]`^_X_]^[X^`^_]_V^_]YRW]]^]W^
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+HWI-EAS443:3:65:1361:199#0/1
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@HWI-EAS443:3:65:350:1876#0/1
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+HWI-EAS443:3:65:350:1876#0/1
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@HWI-EAS443:3:65:38:63#0/1
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+HWI-EAS443:3:65:38:63#0/1
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Y[ba]Z_Va^]_a`^ab`^_W¥^U^`aYZ[^QW^_aaa_]
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a^^X_```]^a`a¥[^a`__^a^_U]S¥Z_Y__`_]`^`
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+HWI-EAS443:3:69:1727:1079#0/1
`^abbab`babbaabbaaaaa`aa``a_a_aaaaa`
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a`[¥_Q¥aaaa`a`a__aaba`[UU_]`_```aa```
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+HWI-EAS443:3:69:613:1260#0/1
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+HWI-EAS443:3:72:457:290#0/1
R__J_^YXXa_QVT_W¥__^_WUJWW_GW`Y`ab]`b_^
@HWI-EAS443:3:72:481:559#0/1
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+HWI-EAS443:3:72:481:559#0/1
`¥`a`_^aaaaa`aa`P`aaa`aa_a^]]`_a`a`U]
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GGGTCTTCTCTTGCTTCCTGATGTGTACTTTTTGATTA
+HWI-EAS443:3:72:646:1069#0/1
`]_Z``baa`aaaa^aaaaaaa]]^_¥aaaaaa`````
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ab`b^Wb_aaaaaaa`aa[^`_^aaM]Z]¥aaaa`a_
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@HWI-EAS443:3:72:886:1322#0/1
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+HWI-EAS443:3:72:908:342#0/1
^S`a¥Z¥Q¥ba^a`[[a`[[aaaa`W`a^]`YL`^_``¥
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a`W`_aa`_]`_]`^`^Z`^`_]`_]XX`_]`^`^Z`
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aa`_]`[aba`_a^aaa]aa`_a^[_`_]`_Z`a``[_```
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a_WYXQ[`¥`^`_]`_]T¥[]^Z¥VWYUZUW^`^`[[LW]
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Y_aab]a¥_ba`_Y`b[Wa`Ya`¥^ba_]aaRZ`babb]_
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^a_bbabbaaa¥L_aaU`YbWbbaaa^b`aba`aa`aab
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+HWI-EAS443:3:73:1419:169#0/1
`YFMa`[[Sa_a]XZ]aa`U`¥_]X[0¥Q]`a`a_]`^]
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a`^`b`aabbab`baaY`b`Y[_b```]JXX^a_aa]¥V^`
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+HWI-EAS443:3:73:312:234#0/1
^`a`_aaa^a``aa`a`_a`W`_```[]`_]`[`NJV]`a¥`_
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[_Y_`_`_T¥_U_aZ]ab__S_`]Y[ZW]`URYZ__YY]_Y
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a_TYIJ_a__`^^TQNO^KT[ZSX]UUQ_UVUWU^ZXZZZ
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@HWI-EAS443:3:73:84:595#0/1
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aaaaaXaaaa`_`a__a]a`^`____ZVWV^X]^^Y^]]]]_`
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a`aa`]_a_aa_a`aa]`_a`]^a_^_a]a_^Za`_`_]]
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U¥_Z`a_a`a__^¥b`_]Vab`_aa^^`V`a]`bbba¥`_`
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+HWI-EAS443:3:74:1624:1426#0/1
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+HWI-EAS443:3:74:174:408#0/1
b`abX`aa``aa]a`X`__]_`aa^`[U\$`aa^`^`_
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+HWI-EAS443:3:74:353:1901#0/1
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@HWI-EAS443:3:74:476:828#0/1
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+HWI-EAS443:3:74:476:828#0/1
^a`^`VH^baa`_`aa`aa[aba^WSVWaH\$`bba``Y[`
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+HWI-EAS443:3:74:524:724#0/1
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+HWI-EAS443:3:74:603:1971#0/1
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+HWI-EAS443:3:74:724:571#0/1
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+HWI-EAS443:3:74:747:1426#0/1
aaaaa\$ab`abaaaa_S_aaaa`a_a`][]_`a_``a[a`
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+HWI-EAS443:3:74:843:272#0/1
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_Z_a_`]aaa`\$[^aabW_`a]^`Y]^`H^QXZ][^_`S
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aa_`[^[abaaaaa_`_a`X`aa___`Y`W`_`[a``^Y
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¥^a]^_`^XU[aa^Uaba^U¥¥aa`VaN]a_abaaa___^
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a¥]^Xa]aaY[X¥Z_¥T^¥VW¥VRVZV_QUZZ^__]^S]Z
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+HWI-EAS443:3:76:1552:1959#0/1
_][_aaa``0a¥`V[¥]^`^`_[_]_aU]__^_a_]YRVO_

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^`aba^`b`b_aaa`a¥_ab`^^¥_^a]`[_]_`^_`^^a
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a`a^a`aa_a_a___]a`_a`_W_a^_^_]a_aa`^^`__
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+HWI-EAS443:3:78:1539:1109#0/1
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@HWI-EAS443:3:78:893:458#0/1
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+HWI-EAS443:3:78:893:458#0/1
]OSWaaa][`^`¥]Xaa`aa_V_a]`][`_a`_^`_^`_^]
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[_OY[T]X_ZY]`PP[LT¥RZYXW^G^Q¥L[]Z_a`YYVX
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_````]__^Y¥a¥`¥ZU¥b]V_`^X``]^[Z¥]a¥^^ZZ`V
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@HWI-EAS443:3:88:699:1436#0/1
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_^ab`] `bb_babaa`aaaaa^`]a^a^` `aaaa[a]
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``[_`_`aYa`a¥_aa^^`_a`a`_a`^a`_`^a`_aa__[
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+HWI-EAS443:3:71:489:1374#0/1
¥`[Z``bbb^]ab^`]Z`Ta^ZZ]¥¥V`^`aa``_`a]
@HWI-EAS443:3:18:581:1764#0/1
CAAGGACAAACCCTCTGGAGCAAAACAAACGATGCTGGGG
+HWI-EAS443:3:18:581:1764#0/1
^[^`_V`]¥T^Y]^]TQ`_L^R_]b]Wa¥a_R`Z__a_a
@HWI-EAS443:3:99:1000:1707#0/1
TATGGCCAGCATTAAAGCATTAAATGAATTGAGAAATCTTG
+HWI-EAS443:3:99:1000:1707#0/1
_`a_Y_bbZU`bbb^^`abaJ^a__N_G[KaUG^VY]aaa
@HWI-EAS443:3:40:1048:444#0/1
CGTGTCCATGGTGTATCCTGTTCCCTGTTCCATGGCTGTAT
+HWI-EAS443:3:40:1048:444#0/1
[_¥`_`b¥`_b_]^[a_aba`^^`U_^ZW¥`a`a`GFJ
@HWI-EAS443:3:37:162:1501#0/1
AGCAGGGTAGATAATCACTCAATGAGTGATATCGAAGTCA
+HWI-EAS443:3:37:162:1501#0/1
`¥^WXPD^^`[ba]`U[_`¥U¥]]Z_]NF0a__]YQP¥Q
@HWI-EAS443:3:22:738:1211#0/1
GGGAGCAAAAGCAGGGTAGATAATCACTCAATGAGTGACA
+HWI-EAS443:3:22:738:1211#0/1
abb_]bbabZabbaa¥bab]]aabaaaa`_`aa_G`_`a
@HWI-EAS443:3:69:964:2021#0/1
GGGTCTTATTTCTTCGGAGACAATGCAGAGGAGTTTGAGA
+HWI-EAS443:3:69:964:2021#0/1
[`bSbb`^_^[ba`ba^]Xaaba`_aaaTb[X]T¥aWQ¥[

@HWI-EAS443:3:75:416:706#0/1
TTTCAGACCAGCACTGGAGCTAGGATGAGTCCCAATCGTT
+HWI-EAS443:3:75:416:706#0/1
`^_a__aab¥a][LaZZ`NN]`X_LXX¥V[_UTZXGVTZ
@HWI-EAS443:3:15:1479:356#0/1
TCCATGGTGTATCCTGTTCCCTGTTCAATGGCTGTATGGGG
+HWI-EAS443:3:15:1479:356#0/1
]SZ^^a¥XSW^SNS¥_Z^¥]bXXQHRZabLK YFJHXYDW
@HWI-EAS443:3:10:626:1280#0/1
GTTCCCTGTTCCATGGCTGTATGGGGGATCTCCAGTATAAG
+HWI-EAS443:3:10:626:1280#0/1
a_ZZ[_^UX_[PWa¥TXZGTUGVQ^_GWGSWQBBBBBBBB
@HWI-EAS443:3:95:934:641#0/1
TCCATGGTGTATCCTGTTCCCTGTTCCATGGCTGTATGGGG
+HWI-EAS443:3:95:934:641#0/1
a_QQX^`UZYXZ^L][```Va_`Y^PLS`]BBBBBBBBBB
@HWI-EAS443:3:64:1721:1020#0/1
TCACAAGACCCTGTGGACCATATGGCCATAATCAATAAG
+HWI-EAS443:3:64:1721:1020#0/1
abaaa`^a^aaY__Q_a__YV¥_]`]]Y]Y_UH`BBBBB
@HWI-EAS443:3:66:405:1733#0/1
AAGACCCTGTGGACCATATGGCCATAATCAAAAAATACA
+HWI-EAS443:3:66:405:1733#0/1
aaPP¥abX¥_K¥a`a^]Ya_a]aSZR]UDMNH^`]GFW_a
@HWI-EAS443:3:5:1532:1493#0/1
TGCCATCTTCAGTCAATGCACCAGCATCCTTTCCAAGAAG
+HWI-EAS443:3:5:1532:1493#0/1
ab_Zb_^bbSba_M^`a_Qb^U^TRWZHX]abYUaabaG
@HWI-EAS443:3:1:1606:918#0/1
AAAAGCTTGTGAATTCAAATGTCCCTGTCTTGTATATA
+HWI-EAS443:3:1:1606:918#0/1
ab`]`V_Qa`^Vb^¥a]IZa_THYY^__`¥I_aa`_BBB
@HWI-EAS443:3:9:597:183#0/1
TGTACACTCCAGGAGGAGTGTGAGAAATGATGATGTTGA
+HWI-EAS443:3:9:597:183#0/1
Z]]aaaa`_a_aa^aaX^aW_UXU]V]]^`]Z^X]^X]¥]
@HWI-EAS443:3:14:1045:297#0/1
CTTTGTGCGACAATGCTTCAATCCAATGATCGTCGAGCTA
+HWI-EAS443:3:14:1045:297#0/1
abbbb`babbbaaabaabaaaa_aaaaaa^`]_a_`__`
@HWI-EAS443:3:58:791:933#0/1
AAAGTTTTCAAGGCTGGAGAAGTTCGGTGGGAGGCTTTTG
+HWI-EAS443:3:58:791:933#0/1
`aaa[aaaa_`a^a_aa¥a¥_¥U¥S_]TY__NSKPW``HZ
@HWI-EAS443:3:60:492:653#0/1
AAGCCTCCCACCGAATTCTCCAGCCTTGAAAACCTTAGA
+HWI-EAS443:3:60:492:653#0/1
a]]G¥[Y_QW]a_^^^_^W]__UXSLEJZU[XSX]T[`ZN
@HWI-EAS443:3:70:317:522#0/1
CCCTAATTGATGGCCATCCGAATTCTTTTGGTCGCTGTCT

+HWI-EAS443:3:70:317:522#0/1
QI_T_RPZ]¥a`¥¥^VZa^aYY_``]a^X^^X[T^ZOZQ_
@HWI-EAS443:3:36:548:601#0/1
AAGAGAATAATGGACATGATCCCAGAGAGGAATGAACAAG
+HWI-EAS443:3:36:548:601#0/1
aaaaa^^a`aaaaa_aa]_aaV[^]X^_^_^[[_Q_]_
@HWI-EAS443:3:52:720:1813#0/1
CTTTTGCAAGATTGTTTCAGTTCATTGATGCTTAATGCTGG
+HWI-EAS443:3:52:720:1813#0/1
aYQ_] [MX^a_YSUF¥L]ZQVaTSN_WWY[VRYZZSDTYO
@HWI-EAS443:3:58:1408:46#0/1
CGGTGGTCTTATGGCATTTCGCGCTGGAACCTTTTAGGAA
+HWI-EAS443:3:58:1408:46#0/1
abbabbaaaabbb`_Y_bbbbZZ_^aab`V`bbbabbb¥a
@HWI-EAS443:3:45:1788:1789#0/1
CATGAGCAAAAAGAAGTCCTATATAAATAAGACAGGAAAC
+HWI-EAS443:3:45:1788:1789#0/1
^]aS¥a_PPY_¥PXL[UV]]aS]X`NUYXa[OFI^GZXW
@HWI-EAS443:3:38:1087:1793#0/1
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+HWI-EAS443:3:38:1087:1793#0/1
aab_^YRZa_TYMQY][^GST^X`][_[ZMEMJTMZ^TGP
@HWI-EAS443:3:98:1221:1090#0/1
TCGTCTTCTTCTTTGGTCCTACATTTGCTTACCATTGGG
+HWI-EAS443:3:98:1221:1090#0/1
aa_[_ba]_aa^aaaa`_]a___`a_`[`a`Y]a_^___`
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ACAATGGATTGGGGGATGCCCCATCCCTTGATCGGCTCCG
+HWI-EAS443:3:59:1108:1151#0/1
U`^TQb`__baUQGVa[b`bbba__Ya]aWXN^G]UQYTY
@HWI-EAS443:3:89:943:1175#0/1
GACCTTCACTATCTCCAGAGCAGAAATGAAAAGTGTGAG
+HWI-EAS443:3:89:943:1175#0/1
abaTaaTTa_^QT`aa]PRSZ`W`^`¥N^Y]H[HN^_^
@HWI-EAS443:3:36:750:1797#0/1
AGCAATAGTTGGAGAAATTTTACCATTACCTTNTCTTCCA
+HWI-EAS443:3:36:750:1797#0/1
a^baa_b`TRS^_Wa`[`__I`^`]]X`_]MDT_V]_S`
@HWI-EAS443:3:57:347:692#0/1
CTGCCTTGCATATGTCTACGGCTTGTTCCTCCGTTGGATT
+HWI-EAS443:3:57:347:692#0/1
a_bbb`_ba^`a`^a_aaa^aa`H¥`VTJZBBBBBBBBB
@HWI-EAS443:3:80:1693:1843#0/1
AGAATTGCCTCTTACCAGTATCCTCAATCCTGATCCTCTC
+HWI-EAS443:3:80:1693:1843#0/1
aa^`aa_a`X^¥[R¥aa0_]XY`Q)`YYW__^_]N¥XW^
@HWI-EAS443:3:97:723:767#0/1
GGACCTTCGATCTTGGGGGGCTATATGAAGCAATCGAGGA
+HWI-EAS443:3:97:723:767#0/1
a`_^aVa`¥`Uaa`^a`[___a^aa___U_¥UY`^`¥¥

@HWI-EAS443:3:64:121:1997#0/1
AGCCAATTGAAGTGGGCACTTGGTGAAAATATGGCATCAG
+HWI-EAS443:3:64:121:1997#0/1
a`b`V]_`X¥NTT_T_`U¥_PWP¥X]R]X]RTQT¥]^¥Y
@HWI-EAS443:3:66:72:780#0/1
CCATATTTTCACCAAGTGCCCACTTCAATTGGCTTGTCT
+HWI-EAS443:3:66:72:780#0/1
abbbbabbbbabb_aV[bbaabbbaa[`a`]^]a`OZ^^`
@HWI-EAS443:3:20:904:1387#0/1
AGCCAATTGAAGTGGGCACTTGGTGAAAATATGGCACCAG
+HWI-EAS443:3:20:904:1387#0/1
```aaba^aa]XaWaaa\_b\_aa`b^a\_[aa\_\_aaaaa]\_aa  
@HWI-EAS443:3:49:1000:1518#0/1  
GTGCCATATTTTCACCAAGTGCCCACTTCAATTGGCTTGT  
+HWI-EAS443:3:49:1000:1518#0/1  
a[¥¥¥a`W`aa`W`\_aa`aZa\_XP^)`\_Wa]\_\_a]Y]\_OH  
@HWI-EAS443:3:79:74:833#0/1  
GCCAATTGAAGTGGGCACTTGGTGAAAATATGGCACCAGA  
+HWI-EAS443:3:79:74:833#0/1  
aba]baaa¥aaXaaaaba`\_aaZ[S[[`^\_\_\_^^\_`^`\_\_^  
@HWI-EAS443:3:49:1553:233#0/1  
ATTGATGCCATCATGGCAAGCACTTGCTGACCAAGCGACT  
+HWI-EAS443:3:49:1553:233#0/1  
abba`ab```a`a`][\_YY^¥WSZ\_ZU\_Q[WS^^UO\_]0¥  
@HWI-EAS443:3:92:798:1839#0/1  
AGGATTTTCATTTAAATACGGCAATGGTGTGGATAGGG  
+HWI-EAS443:3:92:798:1839#0/1  
aZUOMMVYTSPXT\_[U¥`¥]ZVWUWXUGVVQZWSZ^QJQY  
@HWI-EAS443:3:7:1639:1360#0/1  
NAAGAAGAGTTTTCTGAGATCATGAAGATCTGTTCCACCA  
+HWI-EAS443:3:7:1639:1360#0/1  
DIPPPWROVNXRTPTZZTPSTXTQTNQRXWOZSZSZZOMQ  
@HWI-EAS443:3:44:1034:909#0/1  
ATTTATCGTCGCTTTAAATACGGTTTGAAAAGAGGGCCTG  
+HWI-EAS443:3:44:1034:909#0/1  
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@HWI-EAS443:3:87:1449:573#0/1  
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+HWI-EAS443:3:87:1449:573#0/1  
[bababa`U]S\_bbV¥]aaa]b¥\_`a[a`aY]RR]\_`MJ^  
@HWI-EAS443:3:80:1423:104#0/1  
GTCAGGATATAGCGGGAGTTTTGTTTAGCATCCAGAAATA  
+HWI-EAS443:3:80:1423:104#0/1  
a[^`aa^\_aa[a]\_XaXa¥\_a\_SXWFGTDIYPUU\_NTL]O  
@HWI-EAS443:3:96:96:1691#0/1  
CGCGCGAAAACAGGCAAACCATTTGAATGGATGTCAATCC  
+HWI-EAS443:3:96:96:1691#0/1  
YT¥¥\_UR]^W]]SO\_RVW\_`]]Y[]ZU[W[¥]\_OOHHD¥B  
@HWI-EAS443:3:36:702:574#0/1  
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+HWI-EAS443:3:36:702:574#0/1  
aa]R^a`¥LVY¥TZWZ`^a¥¥¥X`[XW^[`[Z¥^WVYVR  
@HWI-EAS443:3:21:665:963#0/1  
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+HWI-EAS443:3:21:665:963#0/1  
aaaa]¥a[W]\_Z`[^a¥R^^^[\_^^\_[[Z\_]XX`UYUVRL  
@HWI-EAS443:3:29:1335:65#0/1  
CACGCGAAAGCAGGCAAACCATTTGAATGGATGTCAATCC  
+HWI-EAS443:3:29:1335:65#0/1  
[baba\_aaaaaaaaa`a`a]^a\_aaa`aa\_\_aa\_^^`\_]R  
@HWI-EAS443:3:32:492:144#0/1  
CCCXGCGAAAGCAGGCAAACCATTTGAATGGATGTCAATCC  
+HWI-EAS443:3:32:492:144#0/1  
abaaabaa]aa`]^aa`^]\_\_^\_\_^`^`[\_X¥WVVTs\_Z  
@HWI-EAS443:3:13:956:1377#0/1  
CGCGAAAGCAGGCAAACCATTTGAATGGATGTCAATCCGA  
+HWI-EAS443:3:13:956:1377#0/1  
\_`baba¥baaa^a`\_a`a\_aa^\_TWa`a`\_SPW^\_U`¥W  
@HWI-EAS443:3:23:1639:1192#0/1  
CGCGAAAGCAGGCAAACCATTTGAATGGATGTCAATCCGA  
+HWI-EAS443:3:23:1639:1192#0/1  
aa[aYbaaabaa\_bbaaab[ab]aaaa\_]b\_]`a^[U` [  
@HWI-EAS443:3:23:18:706#0/1  
CGCGAAAGCAGGCAAACCATTTGAATGGATGTCAATCCGA  
+HWI-EAS443:3:23:18:706#0/1  
abbb`WJ\_baaaa\_a`b]aa`b\_aaaa\_\_a[``a]\_^\_\_  
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+HWI-EAS443:3:25:605:887#0/1  
`bb\_Wa`aabaaabb`bbbbabb`babab¥UXZ\_Y]`\_  
@HWI-EAS443:3:2:902:715#0/1  
CGCGAAAGCAGGCAAACCATTTGAATGGATGTCAATCCGA  
+HWI-EAS443:3:2:902:715#0/1  
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@HWI-EAS443:3:32:1583:1992#0/1  
CGCGAAAGCAGGCAAACCATTTGAATGGATGTCAATCCGA  
+HWI-EAS443:3:32:1583:1992#0/1  
`aa¥]W`ZH[^]Y\_a`aS\_a¥U^IR]]GaGS[aW^LSB  
@HWI-EAS443:3:36:109:1239#0/1  
CGCGAAAGCAGGCAAACCATTTGAATGGATGTCAATCCGA  
+HWI-EAS443:3:36:109:1239#0/1  
abbbabaabaaabab^bbaaaaaa`ab`a\_aaaaaa]P  
@HWI-EAS443:3:38:522:344#0/1  
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+HWI-EAS443:3:38:522:344#0/1  
abaaY`abaa`\_`¥`\_`\_`\_a`a^a\_]`^ZU\_\_UW[^W  
@HWI-EAS443:3:69:161:1130#0/1  
CGCGAAAGCAGGCAAACCATTTGAATGGATGTCAATCCGA  
+HWI-EAS443:3:69:161:1130#0/1  
aaaa]TP\_a]a`a^]\_¥`\_aa\_\_`Y\_]\_]XSUMJSPYRX

@HWI-EAS443:3:82:1377:757#0/1  
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+HWI-EAS443:3:82:1377:757#0/1  
`bbbb`aaaabaabbbabbbbbbbbbbb`bbba`abaXa`a  
@HWI-EAS443:3:98:136:1226#0/1  
CGCGAAAGCAGGCAAACCATTTGAATGGATGTCAATCCGA  
+HWI-EAS443:3:98:136:1226#0/1  
aa``]]`a`\_a[WLT¥Y^^\_YV[Y¥\_^UYZOTX¥VTULW  
@HWI-EAS443:3:5:330:1897#0/1  
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+HWI-EAS443:3:5:330:1897#0/1  
YGQM`aZa[^¥Z`a\_R¥T¥a^^\_[VQZ¥¥¥QVRBBBBB  
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+HWI-EAS443:3:63:149:123#0/1  
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@HWI-EAS443:3:55:626:2020#0/1  
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+HWI-EAS443:3:55:626:2020#0/1  
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@HWI-EAS443:3:2:1389:1185#0/1  
CTCTTGCTTCCTGATGTGTACTTNTTGATTATGGCCATA  
+HWI-EAS443:3:2:1389:1185#0/1  
Q\_bbbbbba]bb`bZV]bVbbUbb[D^bbabab`\_`[aaab  
@HWI-EAS443:3:34:1310:223#0/1  
ATGGCCATAATCAAGAAGTACACATCAGGAAGACAAGAGA  
+HWI-EAS443:3:34:1310:223#0/1  
a]]\_0]^`^`¥Z¥FR\_[[`T\_X¥\_XZ`YU]YXXW^¥¥BB  
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GGGTTCTTCTTGTCTTCCTGATGTGTACTTCTTGATTA  
+HWI-EAS443:3:38:360:986#0/1  
\_aYG]bYX\_U`¥`Z^`aYUY¥^T]ZT[YO[\_P¥\_X[XWS  
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+HWI-EAS443:3:100:1437:425#0/1  
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+HWI-EAS443:3:96:1146:111#0/1  
aP^^`RLRXM`S^DDMUJBBBBBBBBBBBBBBBBBBBBB  
@HWI-EAS443:3:10:405:24#0/1  
AGCATGTTAAACATGCCATCATCATCCCAGGACTCAGTG  
+HWI-EAS443:3:10:405:24#0/1  
]\_^Y^`]^b`^]a\_\_¥X^`ZYZ]Z[ZXWWW^^^]TDN\_GY  
@HWI-EAS443:3:26:1648:566#0/1  
CTGAGTCCTGGGATGATGATGGGCATGTTAACATGCTAA  
+HWI-EAS443:3:26:1648:566#0/1  
`a`Yb^bUa[aaaaabb^aa`\_abaaaaa^Zb\_a\_aa`  
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TGAGTCCTGGGATGATGATGGGCATGTTAACATGCTAAG

+HWI-EAS443:3:32:130:1559#0/1  
aabb\_bbb`aaaa`aaa\_` `aaaaaaaaaaa\_\_a`ba[  
@HWI-EAS443:3:48:247:1118#0/1  
ACTGAGTCCTGGGATGATGATGGGCATGTTAACATGCTA  
+HWI-EAS443:3:48:247:1118#0/1  
a\$`\_]b`^]b]a^[a^a`b` `a` [ `aaa`aaa^Vaaa\_aa  
@HWI-EAS443:3:50:1196:902#0/1  
CACTGAGTCCTGGGATGATGATGGGCATGTTAACATGCT  
+HWI-EAS443:3:50:1196:902#0/1  
`bbbaabaaabbbbbbbbbbabaaaaabbbbbbaabaaaa  
@HWI-EAS443:3:69:1060:1064#0/1  
CACTGAGTCCTGGGATGATGATGGGCATGTTAACATGCT  
+HWI-EAS443:3:69:1060:1064#0/1  
aVaZVa`\_b` `a[ `^`b^[ `a]^`^`aaaaR^a]a[a[ `b`  
@HWI-EAS443:3:87:470:881#0/1  
AGCATGTTAACATGCCATCATCATCCCAGGACTCAGTG  
+HWI-EAS443:3:87:470:881#0/1  
a\_aaaaWaaba^`\_\_`\_`\_aa`\_a```\_]`\_`^` `\_\_`X^  
@HWI-EAS443:3:89:1510:1221#0/1  
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+HWI-EAS443:3:89:1510:1221#0/1  
aa^\_bU`¥Yab¥a`ab`aba\_baaaaabbaabba¥\_a\_[Z  
@HWI-EAS443:3:98:704:930#0/1  
AGCATGTTAACATGCCATCATCATCCCAGGACTCAGTG  
+HWI-EAS443:3:98:704:930#0/1  
]V]aabaabaaab` ``aaabbaa`aa\_a^` `a\_T\_^a\_^a  
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+HWI-EAS443:3:20:928:1288#0/1  
abaa\_b¥\_]`^`b¥a\_ZTGYa^S\_a]QS]¥`XOMS]^aKTH  
@HWI-EAS443:3:54:604:530#0/1  
CAATTTCAATGAACCGTTCTCTTTGTAGTCATACAAATC  
+HWI-EAS443:3:54:604:530#0/1  
ab\_bb`b¥]^a\_\_^`bb`a\_aaaabaa^a]aa`a¥aa^a`  
@HWI-EAS443:3:76:1392:1363#0/1  
GCCTGAGTCCATGAGGGAAGAATATAAACAGGAAAAGCAG  
+HWI-EAS443:3:76:1392:1363#0/1  
a^V`P][JSQSWTTQY^^]Y]XVUGRYUTVYUZHUVUQSV  
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+HWI-EAS443:3:33:1095:262#0/1  
a`]Z¥\_aba^aWa\_¥\_]W`\_[QXTYGJ]]V\_MPY[^¥P^X  
@HWI-EAS443:3:29:930:1461#0/1  
ATCCCAGTGCTGGGAAGGACCCTAAGAAAACAGGAGGCAG  
+HWI-EAS443:3:29:930:1461#0/1  
]^`\_WTU``Z[YUa]RX^`aa]a¥P`[X^aaXO^Z¥a`a  
@HWI-EAS443:3:96:77:518#0/1  
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+HWI-EAS443:3:96:77:518#0/1  
`bb]OZaaa`W``]a` `¥]¥G]]N]^`QTJS[^`YRX[R¥



@HWI-EAS443:3:82:1075:343#0/1  
GCCTCCTGTTTTCTTAGGGTCCTTCCCAGCACTGGGATGC  
+HWI-EAS443:3:82:1075:343#0/1  
aaaaa\_ababbbabaa\_aa^abaa``a[a\_b`[aa`b`  
@HWI-EAS443:3:83:1074:66#0/1  
GCCTCCTGTTTTCTTAGGGTCCTTCCCAGCACTGGGATGC  
+HWI-EAS443:3:83:1074:66#0/1  
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@HWI-EAS443:3:53:132:1714#0/1  
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+HWI-EAS443:3:53:132:1714#0/1  
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+HWI-EAS443:3:61:953:1112#0/1  
M`abbbaa\_b\_aVa¥aWZ\_]bb¥b`^HWb`ZW`Z[\_K\_Z^  
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+HWI-EAS443:3:4:1643:2023#0/1  
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+HWI-EAS443:3:91:235:752#0/1  
aabaabYaaa^\_aa``¥Z[\_a^a]]\_`Z^\_\_[^^^`Z^Y  
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+HWI-EAS443:3:29:1640:1817#0/1  
\_Z\_Z\_\_SUZb`b\_`a\_a¥\_U`UXHU[Qa^aZRP¥UBBBBB  
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+HWI-EAS443:3:38:285:1679#0/1  
aaa``^`aaZ^Z]]`WSa[U\_`XVU^XX]NNWYUXYVV]V  
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+HWI-EAS443:3:38:194:1902#0/1  
UXaba\_Y\_]aa`a`ab`¥¥aa]]Z\_bb\_HHYbaa\_¥¥GOF  
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@HWI-EAS443:3:14:1222:1622#0/1  
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+HWI-EAS443:3:14:1222:1622#0/1  
aba`ZZaaV`]aX\_aaaba`a\_`S]\_S`\_`NTS[]\_abV  
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+HWI-EAS443:3:68:1625:455#0/1  
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@HWI-EAS443:3:81:1040:1687#0/1  
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+HWI-EAS443:3:81:1040:1687#0/1  
aTXa]¥I^aYYQVSTsb\_SWJ^bXaX\_^ON\_\_a\_`Y`\_\_]  
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+HWI-EAS443:3:61:1020:1078#0/1  
¥`\_¥^^abba¥aa`aba]aSRK\_¥a^``aa[b^`a\_\_\_\_`]  
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GCGAAATCACATGTGTGTGCAGGGATAACTGGCATGGCTC  
+HWI-EAS443:3:85:293:530#0/1  
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+HWI-EAS443:3:98:1756:835#0/1  
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+HWI-EAS443:3:38:1660:1558#0/1  
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+HWI-EAS443:3:79:72:1605#0/1  
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+HWI-EAS443:3:54:100:504#0/1  
ab¥\_[X[ [U0`a¥HUQT^\_b]b`¥b]YX]aba0QL\_F[¥¥  
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+HWI-EAS443:3:54:198:1368#0/1  
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+HWI-EAS443:3:51:612:185#0/1  
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+HWI-EAS443:3:33:910:1855#0/1  
a`VaaaXL\_¥`L`a[`\_Za\_a[\_\_\_[[G]Q\_[W[^S^Z[V^  
@HWI-EAS443:3:36:121:1479#0/1  
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+HWI-EAS443:3:36:121:1479#0/1  
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+HWI-EAS443:3:99:152:1392#0/1  
a\_`IY[`a`]^a``]^a\_\_\_ab^¥¥^`a`aYa\_¥`^`]\_a  
@HWI-EAS443:3:77:1741:501#0/1  
ATTCATTTTGGACCCAGCTTGCTAGAGATCTGGGCTCCGG  
+HWI-EAS443:3:77:1741:501#0/1  
^`]XWU^[a^`¥OMSab\_aWLUXWR^ZQFVWT\_[RT¥GZB  
@HWI-EAS443:3:46:636:1254#0/1  
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+HWI-EAS443:3:46:636:1254#0/1  
\_abaaa`ba`b``\_¥\_\_\_a\_\_`a^a\_X`\_\_[\_¥^[XX]^]  
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+HWI-EAS443:3:56:1472:521#0/1  
aaba`bb\_Uaaab``a])babb^aa\_a[[[S`aR`[¥¥¥`  
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CTTCGTCCATTTTCACCCCTCCAGAAATTTTCGGTCATCGA  
+HWI-EAS443:3:7:1049:1563#0/1  
ab¥]\_\_\_b[a^\_ZZ\_^0\_`ZYa¥\_ZJS)`\_W\_a^¥SSDZB  
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+HWI-EAS443:3:31:920:962#0/1  
R]\_QZ\_\_R]HVVQ[V¥X]¥¥\_W]XYZX]¥X^YW]JPZ[QS  
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+HWI-EAS443:3:14:141:1041#0/1  
¥¥`ZLYM\_baaV`Y^^b¥S^````\_a]Y^WDY]]\_\_``]\_  
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+HWI-EAS443:3:89:365:1138#0/1  
\_`aSXQ^^`YI^X¥\_X\_\_OZTQM]^Z\_MNXaa¥`\_XNFZ\_  
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+HWI-EAS443:3:23:883:1286#0/1  
aaba````ba`\_a¥aa`\_]Z^^\_YZ¥]^]^TYVVQXX\_^\_^  
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+HWI-EAS443:3:3:872:899#0/1  
aba\_``b^aa`a^`a`aaa\_aaXa]^`\_]X\_]R[\_^\_\_`B  
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+HWI-EAS443:3:97:1178:1836#0/1  
[^a]`¥a\_b\_bba`aba\_¥¥bba]G[``^^Wb¥ba\_b\_Mb  
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+HWI-EAS443:3:11:1305:1557#0/1  
\_]\_¥a]]a]\_V]U^`[aaW^`R]¥X]XWUDTLV¥NR[BBB  
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+HWI-EAS443:3:2:47:1756#0/1  
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+HWI-EAS443:3:49:993:809#0/1  
a[a`b\_aabaaaaa\_ab\_aa\_a\_¥^a\_a\_V`a`^`¥`¥  
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+HWI-EAS443:3:66:763:906#0/1  
abb\_\_SXP¥ZS^¥¥[^`[Q¥\_WYSMY]]\_`\_]Z]YXT\_`Z  
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+HWI-EAS443:3:34:1133:1689#0/1  
¥J`^`Sab^Yaba^]`Vaaab`aa^`XaaaaV`\_\_`^`\_^  
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+HWI-EAS443:3:50:1161:604#0/1  
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+HWI-EAS443:3:100:1083:570#0/1  
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+HWI-EAS443:3:17:1572:1312#0/1  
^\_¥a`aa`¥a¥\_S¥[W[a`a]`a]YQZVT[Z¥RV^[[UTT  
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+HWI-EAS443:3:37:79:420#0/1  
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+HWI-EAS443:3:50:1766:1013#0/1  
a`^`AQ\_aaa[^a^]\_\_aa^`¥¥]XW[^`^`X]S¥TZVZTXS  
@HWI-EAS443:3:55:510:1386#0/1  
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+HWI-EAS443:3:55:510:1386#0/1  
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+HWI-EAS443:3:83:358:603#0/1  
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+HWI-EAS443:3:90:1018:533#0/1  
aaaa^`ZabaabZbaa`aabaaa^[a\_a][a[`aXYUXaa  
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+HWI-EAS443:3:44:162:552#0/1  
\_V¥\_]¥XU]W¥]\_aU¥\_\_WY]\_`X`XM¥^RZTVTFUVJF  
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CTAATTGATGGCCAACCGAATTCTTTTGGTCGCTGTCTGG  
+HWI-EAS443:3:55:1159:1619#0/1  
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abb)`aaabb`a``aaaabaaa\_aaaa^^]Y^\_^Z]YY^  
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TTGTGTATTCATCTTTTCAATAACAGAATTTACTTTGTTA  
+HWI-EAS443:3:63:1487:519#0/1  
aa`\_a^\_a`a`^aa`\_a¥`^`\_aa`^\_`^`a`\_a¥`\_`  
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GAATCCCACCCAGGAATATTTGAGAATTCATGTCTTGAAA  
+HWI-EAS443:3:49:1637:1516#0/1  
a¥bbb`a¥a`baab\_ababb`aaaaabaYaaa\_\_aaa¥aa  
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+HWI-EAS443:3:19:414:246#0/1  
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+HWI-EAS443:3:48:217:258#0/1  
aa`a[aaTG``\_`YYZT^[\_^\_\_QTHZ`[\_BBBBBBBBBB  
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+HWI-EAS443:3:61:1724:651#0/1  
ab^bb`bbbbbb\_a\_^bbbababb`b`baab`a^b``U¥S\_  
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+HWI-EAS443:3:53:15:852#0/1  
a`L\_[Vba¥¥\_\_a\_aaa`a^`^SO¥Z\_R]a`a`a^[\_[^  
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+HWI-EAS443:3:34:1157:1336#0/1  
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+HWI-EAS443:3:90:218:227#0/1  
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aa\_aa]]¥ZY``Ua\_[XXZR]`¥XS]P^`Z`QYWBBBBB  
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Z¥a^Z[a^a\_RT[QX¥]\_M\_[¥\_V\_¥LJSNYXJ[]MBBBB  
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+HWI-EAS443:3:25:1712:1792#0/1  
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+HWI-EAS443:3:45:366:12#0/1  
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+HWI-EAS443:3:78:1419:1406#0/1  
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+HWI-EAS443:3:56:1381:747#0/1  
a¥OV^\_¥`\_`U`U`0`\_a`XT\_ZZ¥¥\_OWU¥ZGZ\_a\_\_R¥  
@HWI-EAS443:3:27:261:1972#0/1  
GACCAAATGAAAACCCAGCTCACAAAAGCCAATTGGTGTG  
+HWI-EAS443:3:27:261:1972#0/1  
0\_\_[a¥QZ^R¥\_a]a`V\_U\_`\_[Z\_L[H^S[abb\_PY`Z  
@HWI-EAS443:3:50:675:1423#0/1  
AGAGCACTGACATTAATACGATGACCAAAGACGCAGAAG  
+HWI-EAS443:3:50:675:1423#0/1  
`YQ]Yaabba`^bba]]aL^¥aaaaVT`aaZVa\_S\_^^0^  
@HWI-EAS443:3:69:569:1313#0/1  
TCATTGTTCCCCTGAATGCTGCCATAACGGTTGCCCTTT  
+HWI-EAS443:3:69:569:1313#0/1  
a``\_`\_`ab`^`baaabWZ\_X`aVOU\_0^]]XV¥TDW¥]T

@HWI-EAS443:3:14:629:1843#0/1  
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+HWI-EAS443:3:14:629:1843#0/1  
abbaaa\_`aaaa\_b`aaYKPaa\_dW`aa\_a`a^XS`\_\_`\_  
@HWI-EAS443:3:83:300:1272#0/1  
GGGCCTTCTACGGAAGGAGTGCCTGAGTCCCTGAGGGAAG  
+HWI-EAS443:3:83:300:1272#0/1  
\_]`aa`aa`[a\_V^`[]X`[^aa\_]V]U^[HY^W`^ZNLX  
@HWI-EAS443:3:99:1299:569#0/1  
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+HWI-EAS443:3:99:1299:569#0/1  
U\_`¥\_¥aS`¥¥0X\_a`]\_a]M[OYD^\_]¥\_\_LUSYU]IX  
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+HWI-EAS443:3:14:491:1767#0/1  
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GGGTTTTTTATCATTAAATAAGCTGAAACGAGAAAGCTCT  
+HWI-EAS443:3:34:1093:607#0/1  
¥JYQU^^\_U\_b]Z`\_TT\_ZQVW¥Ya`SPR]¥¥T^MWPZYB  
@HWI-EAS443:3:70:1558:791#0/1  
GGGGTTTTTTATCATTAAATAAGCTGAAACGAGAAAGCTC  
+HWI-EAS443:3:70:1558:791#0/1  
abIbYVaaab`]W\_aa\_a```aV\_aY[aWaa\_]¥S`^\_]`  
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+HWI-EAS443:3:52:1586:2023#0/1  
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aa\_aa`aaa`aaaaaaaaaaa\_a\_aaBBBBBBBBBBBBBBBB  
@HWI-EAS443:3:93:508:1385#0/1  
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+HWI-EAS443:3:93:508:1385#0/1  
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+HWI-EAS443:3:66:795:1835#0/1  
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+HWI-EAS443:3:95:429:696#0/1  
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+HWI-EAS443:3:100:496:172#0/1  
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+HWI-EAS443:3:14:742:1151#0/1  
\_aa\_``aaaR\_a\_\_\_a\_a`Y`\_`¥\_`^`a¥^^BBBBBBBBB  
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+HWI-EAS443:3:57:1025:401#0/1  
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+HWI-EAS443:3:86:619:1052#0/1  
ababbaa`aaaa\_aaaaaaaaa\_`\_]\_\_aaBBBBBBBBBBB  
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+HWI-EAS443:3:36:1098:916#0/1  
¥a\_b`bb]b\_S\_^bab`abbabaaRaa\_aa[`\_`aZ\_a`  
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GGATTTCTCATTTTGGGCAAAGAAGACACGAGATGGCCCA  
+HWI-EAS443:3:62:139:1094#0/1  
\_] ]^]aba`¥a`a]Z\_W`]P\_]¥^[ZaXH[V¥\_Z^Y\_SVF  
@HWI-EAS443:3:21:427:1763#0/1  
GAGAGATTTCTCATTTTGGGCAAAGAAGACACGAGATAT  
+HWI-EAS443:3:21:427:1763#0/1  
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+HWI-EAS443:3:71:791:1012#0/1  
a\_\_¥W`Z]`baVZ\_Z^^0S\_¥\_aa`Y^W[\_X\$Xa`\_ZX¥  
@HWI-EAS443:3:68:1486:1320#0/1  
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+HWI-EAS443:3:68:1486:1320#0/1  
\_``aa]]`a`\_`aa\_¥`a]\_`R`P`\_`]Z^\_\_\_aXX]`  
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TGCGAGAGTCCCGTTTTCGTTTCATTACCAACTACGNC  
+HWI-EAS443:3:81:952:241#0/1  
ababZb¥a\_^[`bWaba`b^aa\_aaaa]\_a\_¥a^\_a\_UDK  
@HWI-EAS443:3:37:318:565#0/1  
GTTGGTAATGAAACGAAAACGGGACTCTCGCATACTTACT  
+HWI-EAS443:3:37:318:565#0/1  
a^aaa^\_a`a\_]`\_`^`\_]X^QU^]]YHW]^X\_[\_WUW]  
@HWI-EAS443:3:92:530:1678#0/1  
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+HWI-EAS443:3:92:530:1678#0/1  
aUZWZaa`¥FY\_`Ob`\_\_`^V\_\_W`\_aN\_¥\_]\_]Y]XX^  
@HWI-EAS443:3:40:733:1882#0/1  
GTGCTGACCAACAAAGTCTCTATCAGCATGCAGATGCATA  
+HWI-EAS443:3:40:733:1882#0/1  
a]¥G]\_`^`a\_S`\_`^U[0aW`W[]OFYWOO`SPMR\_WUY



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a``\_Z\_aZZ¥`]L\_aUF\_a[aP`aa0a]VLXJVUaaTPaa  
@HWI-EAS443:3:62:1264:420#0/1  
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+HWI-EAS443:3:62:1264:420#0/1  
`aabaabaaa`a`¥H`a]\_aaa`aV]WZ`aa[\_Z^`^]`\_  
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+HWI-EAS443:3:30:1652:287#0/1  
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+HWI-EAS443:3:60:1171:1068#0/1  
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CGGCTCTACTAGTGTCCAGTAATAGTTCCTTCTCCCCTCT  
+HWI-EAS443:3:35:732:446#0/1  
a\_b\_aa¥¥0[]]NZLY`S`GZX[Z¥Y^ZHT`^Y[`^FRJP  
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+HWI-EAS443:3:28:1120:53#0/1  
]a¥[Yb\_aab`aa`a\_a`ab```^^Za^\_\_`a\_a¥Zb¥\_X  
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+HWI-EAS443:3:20:433:702#0/1  
aaa`\_X]^\_]W`\_a^\_RZZ^Z`\_V[VZ¥¥`^\_NZNX¥a  
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+HWI-EAS443:3:37:644:1801#0/1  
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+HWI-EAS443:3:30:667:1978#0/1  
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+HWI-EAS443:3:70:947:1189#0/1  
Q\_\_\_ZbT`YTQ¥\_\_bb`\_^¥`\_`abaTY]¥\_Z^a\_`a^UP  
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+HWI-EAS443:3:73:263:1939#0/1  
Y¥aOQ[^`aX¥ZHa]¥\_a]XS\_a`^\_U\_S]Q¥WMMTTFPV  
@HWI-EAS443:3:48:277:1195#0/1  
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+HWI-EAS443:3:48:277:1195#0/1  
abaa\_a`a[\_Ra\_`b[^]`a`^a\_X]`^TZ^`^aYa\_]\_  
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+HWI-EAS443:3:92:1684:1027#0/1  
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+HWI-EAS443:3:20:1416:896#0/1  
¥UPZbaYY[VVa`\_\_[aaaZZT[WUaYYXX]\_¥I^UWFW  
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+HWI-EAS443:3:19:1150:1375#0/1  
a`\_]\_Q[UZ[RV```]TYXZ\_XFP^U`a^LOFJ`a]a^a^  
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+HWI-EAS443:3:11:263:192#0/1  
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+HWI-EAS443:3:72:852:678#0/1  
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CAGCATTAAAGCATCAATGAACTGAGCAATCTTGCAAGAGG  
+HWI-EAS443:3:59:444:173#0/1  
^T¥^WaXaa`^¥]a\_\_ba\_]a¥W``\_a\_a`^^^^LGL\_]`  
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+HWI-EAS443:3:21:1765:632#0/1  
[^\_^\_aaaa]]Y\_aVQM\_\_\_OFYWX^[ZVXGWN^\_VXXXV  
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+HWI-EAS443:3:99:907:1969#0/1  
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@HWI-EAS443:3:45:1420:1601#0/1  
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+HWI-EAS443:3:45:1420:1601#0/1  
ab`bbbbbab`bba`b\_babaabaa\_aaaaaa^V`a^\_Z  
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+HWI-EAS443:3:18:1405:1025#0/1  
¥`\_XJ]WF¥Wb\_a`URZYN\_¥YR]Y[b\_Y\_\_Y[`BBBBBB  
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+HWI-EAS443:3:31:839:70#0/1  
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+HWI-EAS443:3:95:1175:977#0/1  
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+HWI-EAS443:3:51:888:227#0/1  
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+HWI-EAS443:3:76:1353:439#0/1  
QQ¥¥¥[ZZaaS`\_¥aa`b\_\_^a]aJa¥V`[[^\_ba^YF\_  
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GGGCCCCCTCAAAGCCGAGATCGCGCAGAGACTGGAAAGT  
+HWI-EAS443:3:61:1032:1194#0/1  
`]UXV¥`\_]ZURZV]]R^YX\_^\_`UZVZZ¥UU[URXSQ  
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CAACAGAATGGGAACAGTGACCACAGAAGCTGCTTTTGGT  
+HWI-EAS443:3:43:1574:1694#0/1  
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+HWI-EAS443:3:75:99:1541#0/1  
`aabab\_aa[aaaaaaaaaaaa`\_\_a``a\_[Z\_  
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+HWI-EAS443:3:21:1233:717#0/1  
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+HWI-EAS443:3:76:1686:435#0/1  
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+HWI-EAS443:3:98:503:19#0/1  
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+HWI-EAS443:3:89:414:1071#0/1  
aa¥Q¥\_QJT\_\_YaT\_Y\_`ZYM¥\_\_[ZP\_`^^Z]Z^WV\_\_¥  
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+HWI-EAS443:3:25:1035:547#0/1  
aaaa`aY\_\_`\_]`a\_`\_[]\_^`¥\_¥]\_^^[^^Y]Z`S]\_  
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+HWI-EAS443:3:26:940:1695#0/1  
a`Y^\$S\_YY\_[XLTYa\_`XVZI^Y\_\_\_U\$PT]VZ\$]X  
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TCGAGGATTTTGTATTTTCATTCCATTTAGTGTGTCCCA  
+HWI-EAS443:3:67:1595:1051#0/1  
a`aaaa`abbababbba`aa`\_a`aaaa^aa`\_\_\_\_\_]\_\_\_  
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+HWI-EAS443:3:70:1356:188#0/1  
Y\_^^`baXa`\$`\_^]`I\_\_X]aa^aX^b\$`U\$^aaaZDVa  
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AAAAGTCAATTGGTNTGGATGGCATGCCACTCTGCTGCAT  
+HWI-EAS443:3:58:1102:690#0/1  
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+HWI-EAS443:3:50:1252:1426#0/1  
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+HWI-EAS443:3:50:925:180#0/1  
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+HWI-EAS443:3:50:678:1765#0/1  
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+HWI-EAS443:3:54:859:614#0/1  
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+HWI-EAS443:3:32:424:1838#0/1  
aabaaa\$DUaaa[\_a`aaaaa[[]a]aaaYaaXPZ^Y\_a^  
@HWI-EAS443:3:26:274:61#0/1  
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+HWI-EAS443:3:26:274:61#0/1  
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+HWI-EAS443:3:84:836:1314#0/1  
`^aaZ[T^L[ZX^WS¥OVY[VU]X\_]ZZS[^VG¥SSKDV  
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+HWI-EAS443:3:12:434:198#0/1  
aaa^`aaaaa\_a]\_\_`\_\_\_^`^^U^^^]\_\_^\_\_WZ\_X\_^  
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@HWI-EAS443:3:17:245:788#0/1  
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\_X`abb]\_aa\_Za[aaa`a`aa\_a[SXaaa\_\_QYJF]Q^  
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+HWI-EAS443:3:2:1550:533#0/1  
]S`ba\_]^^`[\_]OS]\_¥¥\_aa\_aa`\_\_\_\_\_Y`BBBBBBB  
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+HWI-EAS443:3:79:1325:1655#0/1  
^¥\_`^``Y¥ZU\_0\_HQWX\_a^a^\_abaa`]X\_[T¥VHN[Z  
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+HWI-EAS443:3:100:964:1363#0/1  
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+HWI-EAS443:3:15:1769:483#0/1  
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+HWI-EAS443:3:20:971:183#0/1  
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+HWI-EAS443:3:27:1231:1136#0/1  
ab\_]NH`b`^H]X]Yb¥`\_]¥W[YYZaWYPW]`Y\_a`]`  
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+HWI-EAS443:3:27:1760:131#0/1  
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+HWI-EAS443:3:31:1635:99#0/1  
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+HWI-EAS443:3:76:1683:1721#0/1  
aab`RI^bbabYSR0Hb\_S[ba]GYaaI[\_a\_][a`S[\_`\_`  
@HWI-EAS443:3:8:1003:265#0/1  
CATCAAGCATCAATGAATTGAGCAATCTTGCAAAAGGAGA  
+HWI-EAS443:3:8:1003:265#0/1  
Xb\_VZ[JWS`\_aZa¥a`Jaab`Ua¥aL`\_aW`ba\_a`]`\_`  
@HWI-EAS443:3:37:1599:216#0/1  
GGCCCAGCATTAAGCATCAATGAATTGAGCAATCTTGCAA  
+HWI-EAS443:3:37:1599:216#0/1  
aaaX`U`\_]Z^UVU[¥0XZ`\_`XDX¥VQKDJGXZZ¥UMJ  
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+HWI-EAS443:3:80:1315:1011#0/1  
ab`aa`\_SaZa`Xa\_T\_] [aa\_\_aP]ZY`^Z`¥GY^R\_\_  
@HWI-EAS443:3:1:1785:1295#0/1  
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+HWI-EAS443:3:1:1785:1295#0/1  
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GGTTCTTCTCTTGTCTTCCTGATGTGTACTTTTGATTATG  
+HWI-EAS443:3:44:1634:372#0/1  
aa`\_`aa`a`aaa`\_aa^\_aa^]]¥`^]]a\_a`]]`\_\_X  
@HWI-EAS443:3:35:59:1860#0/1  
GCGGGTCTTCTTCTTGTCTTCCTGATGTGTACCTTTTGA  
+HWI-EAS443:3:35:59:1860#0/1  
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GGGGTCTTCTTCTTGTCTTCCTGATGTGTACCTTTTGATT  
+HWI-EAS443:3:48:922:210#0/1  
ab`aV¥aaaaa¥aaa^\_a\_W`\_`^`[^Ta¥^SG]^`^\_¥]\_Z  
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GGTTCTTCTTCTTGTCTTCCTGATGTGTACCTTTTGATTAT

+HWI-EAS443:3:19:1052:1182#0/1  
\_\_T\_`abbbbaaabba`baa^]V\_T`^^baaWZ\_a`  
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+HWI-EAS443:3:58:508:1920#0/1  
abbabbbbababbabaa`aY\_aaaa\_aaaaa^\_\_Ya  
@HWI-EAS443:3:67:565:1157#0/1  
ATTGCCATCATCCACTTCATTCTGAGTGCAGGGTCTTCT  
+HWI-EAS443:3:67:565:1157#0/1  
`aaZ^a`\_aa[aa`\_`S`^`^a\_]\_Z^\_W\_\_ZVRXU^]\_  
@HWI-EAS443:3:95:36:148#0/1  
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+HWI-EAS443:3:95:36:148#0/1  
a`a`ba`bZ\_\_ZGU¥]XWZ[NXWYSSWZX\_UGYWZ^UZ  
@HWI-EAS443:3:13:1618:812#0/1  
TCCAAAATGCCCTAAATGGGAATGGGGACCCGAATAACAT  
+HWI-EAS443:3:13:1618:812#0/1  
¥Ma]Waba`a\_X][`aWb]V[V[Z`\_ZG^RWUOIHLWO^  
@HWI-EAS443:3:53:11:1548#0/1  
GTGCGTTTAAAGTACGGTTTAAAAAGAGGGCCTTCTACGGA  
+HWI-EAS443:3:53:11:1548#0/1  
a^\_`a`\_a`\_`^aS]`Y\_\_ZT]\_¥``[¥[¥¥¥¥¥YPZ¥ZN  
@HWI-EAS443:3:74:39:498#0/1  
AGGCAAACCATTTGAATGGATGTCAACCCGACTCTACTTT  
+HWI-EAS443:3:74:39:498#0/1  
Y`a\_¥aa`ba`b^UH]aaXZaWU]\_a][¥\_[\_\_\_\_Z`¥  
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+HWI-EAS443:3:40:1785:800#0/1  
ab`a`aZab`[`aZb^b[Z^`aaX^)`a[W¥T0^XL]¥[W  
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AGGACCGCAGAAGCTGCTTTTGGTCTAGTGTGCCACTT  
+HWI-EAS443:3:25:940:1890#0/1  
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@HWI-EAS443:3:18:1061:218#0/1  
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+HWI-EAS443:3:18:1061:218#0/1  
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+HWI-EAS443:3:66:1274:1082#0/1  
aa^YQ\_Y[aYXR[[VQ[OORNLYBBBBBBBBBBBBBBB  
@HWI-EAS443:3:24:1216:1416#0/1  
CGCTGTCTGGCTGTCAGTAAGTATGCTAGAGTCTCGTTTCG  
+HWI-EAS443:3:24:1216:1416#0/1  
aaab¥VbabbaabY^a]aaba\_aaa`a^Vaa`\_b\_aZ\_]`  
@HWI-EAS443:3:38:982:595#0/1  
GAAATGAAAAGTGGCGAGAGCAGTTGGGACAGAAATTTGA  
+HWI-EAS443:3:38:982:595#0/1  
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+HWI-EAS443:3:32:1546:1013#0/1  
aaabbbbbbbbabbbbaa`bbbabbab`bbaYD[babb  
@HWI-EAS443:3:32:760:85#0/1  
GGTCCGGATTGATGCCAGGATCGACTTCGAGTCTGGACGG  
+HWI-EAS443:3:32:760:85#0/1  
aY\_Z^`¥\_aVY\_\_XM[^¥UYSP^VXYSRR^Z[[VW¥¥  
@HWI-EAS443:3:72:1071:1742#0/1  
GCCCGGATTGATGCCAGGATCGACTTCGAGTCTGGACGGA  
+HWI-EAS443:3:72:1071:1742#0/1  
^baabbaaaababbbbaabaaaaa`\_aaa`\_aa[a\_`aaa  
@HWI-EAS443:3:74:964:56#0/1  
GCCCGGATTGATGCCAGGATCGACTTCGAGTCTGGACGGA  
+HWI-EAS443:3:74:964:56#0/1  
V\_`^abIZ\_bbbbbbb]bb\_b\_bababababS]aa\_VZ^aW  
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GCTGAATCGAGAAAATTGCTTCTCATTGTTTCAGGCATCAA  
+HWI-EAS443:3:80:617:689#0/1  
`aaabaa`aab`ab\_a[a`¥a^`a\_X\_\_\_Y)\_`\_]\_^  
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CCGCCACTTTTCATTTCTGCTCTGGAGGTAGTGAAGGGCT  
+HWI-EAS443:3:91:1753:618#0/1  
¥S\_0¥¥W`RQ[W\_¥I\_\_R\_aaa`X]X\_¥I[VZ]BBBB  
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+HWI-EAS443:3:46:1695:1137#0/1  
Ua^ZU¥¥\_IUaaba]aaaZP[XaZU\_¥aV¥Vb]¥\_¥UaU\_  
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AAAAATTCCAGCGCAAATGCCATAAGCACTACATACCTT  
+HWI-EAS443:3:85:978:1936#0/1  
\_`^`^W`a[O\_YaaJWI`\_XSX]`a\_\_T¥]QGHIRITUF¥  
@HWI-EAS443:3:12:1670:891#0/1  
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+HWI-EAS443:3:12:1670:891#0/1  
a\_\_a`aaVa`bX``a\_a\_a`\_S^`^]]U\_XGWZ\_\_`OUGS  
@HWI-EAS443:3:59:1567:666#0/1  
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+HWI-EAS443:3:59:1567:666#0/1  
a`bb]bbab[]a]ZbbabZ¥V`baab]ZbaZGa`ZDL`X^  
@HWI-EAS443:3:23:847:2009#0/1  
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+HWI-EAS443:3:23:847:2009#0/1  
ab`VZ]\_aa]SOPV^¥ST¥BBBBBBBBBBBBBBBBBBBBBB  
@HWI-EAS443:3:37:991:245#0/1  
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+HWI-EAS443:3:37:991:245#0/1  
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+HWI-EAS443:3:18:1418:498#0/1  
aa`aaa`a`\_^`a\_a\_\_X\_]X\_a]]^`^X\_\_X]\_Y¥]]  
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+HWI-EAS443:3:7:227:291#0/1  
aabbabb`ababbabbaaabbbaa\_aabaaQa``a``\_a]  
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GACCGGATGTATATTCTGAAATGGGAGGCTGGTGTATTATA  
+HWI-EAS443:3:87:782:711#0/1  
aaaabbaa``aaaa`a`[a\_a`Z\_[\_^Z\_a`¥[\_`^`\_Z`  
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+HWI-EAS443:3:1:583:474#0/1  
a¥VaZ\_K\_]M`[SF[[G[VBBBBBBBBBBBBBBBBBBBB  
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+HWI-EAS443:3:22:735:110#0/1  
\_a```baUbbayMbb`b`Va]aaa\_[a`\_[aaaVb\_]Xa]  
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+HWI-EAS443:3:39:457:1364#0/1  
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@HWI-EAS443:3:61:1599:614#0/1  
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+HWI-EAS443:3:61:1599:614#0/1  
aaaba^b]aaY[YQabbaT`baG\_bb[aaJT\_[ZZIV[aU  
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+HWI-EAS443:3:71:113:2030#0/1  
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+HWI-EAS443:3:9:802:1856#0/1  
ab\_[FRa]a\_a¥X^a\_a^a]\_\_\_[]\_aUL]X[¥SXNS¥\_`^  
@HWI-EAS443:3:78:1566:734#0/1  
GGCCCATCCACTAACAGGGCAGAGAGGAATTGCCCGAT  
+HWI-EAS443:3:78:1566:734#0/1  
a¥^TZa\_TZa`baa`X¥\_¥HZ^`\_`\_X\_a¥XZ`]NKNWH`  
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+HWI-EAS443:3:84:168:344#0/1  
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CCTCCCGATTCCACCAATCATTCTTCCGACAGATGCTCTG  
+HWI-EAS443:3:1:170:240#0/1  
ab]a[^YaXbaa\_¥a]`TUWa^¥[\_[U`VU[`^][M^SaB  
@HWI-EAS443:3:79:1499:199#0/1  
TGGGATCCATTCCGGTGCGAACAAGCGCTCTTGTCTTTG  
+HWI-EAS443:3:79:1499:199#0/1  
``]bU]UaaY[WHQ^M[`ba^[`ab\_ZFP`abaU\_M¥F\_a

@HWI-EAS443:3:60:966:772#0/1  
CTCCTGTTTTCTTAGGGCCTTCCCAGCACTGGGATGCTC  
+HWI-EAS443:3:60:966:772#0/1  
``a^\_X^b\_\_ab^¥^^G\_\_¥\_b]]`aa\_\_¥`a[\_a\_T¥`  
@HWI-EAS443:3:30:876:1573#0/1  
GTCCGAGAGCTCGAAGACTCCCCGCCCTGGAAGGATAAA  
+HWI-EAS443:3:30:876:1573#0/1  
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@HWI-EAS443:3:2:1320:1876#0/1  
GCGGTGTGTTCTGTTTACTGTGTCCATGGTGTATCCTGTT  
+HWI-EAS443:3:2:1320:1876#0/1  
``^aUQXa^XYa^[a\_\_Z\_VQaZT¥¥N`\_G\_¥^ZPU`XVV  
@HWI-EAS443:3:48:206:545#0/1  
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+HWI-EAS443:3:48:206:545#0/1  
aaa`YaWa\_`\_`a\_a`\_`a`¥\_W[Z¥\_`aWaT^\_ZU[\_VU  
@HWI-EAS443:3:86:612:1757#0/1  
CGGTGTGTTCTGTTTACTGTGTCCATGGTGTATCCTGTTC  
+HWI-EAS443:3:86:612:1757#0/1  
^bb`b\_b[aba[`bbbabbaba^aaaa][b\_abba`\_aab  
@HWI-EAS443:3:94:735:642#0/1  
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+HWI-EAS443:3:94:735:642#0/1  
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+HWI-EAS443:3:95:742:21#0/1  
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+HWI-EAS443:3:21:244:162#0/1  
Ja¥`^F^WS\_XV`bY\_VVaY[`]a¥^T[aR^aS]YSPY\_\_  
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+HWI-EAS443:3:8:621:1422#0/1  
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+HWI-EAS443:3:11:1090:1647#0/1  
^\_b¥F]aaaa]YbaY¥[\_^baa\_`¥UX[``a`\_X`\_aXaa  
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+HWI-EAS443:3:50:1722:87#0/1  
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+HWI-EAS443:3:31:108:2031#0/1  
X\_aSH]aa`^QS^`Z¥M^a¥¥T]a[NKMDTXa^H[[^¥YX  
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GCCCCGAGACTGGAGCCACACAAATGGGAAAAATACTGTGT  
+HWI-EAS443:3:11:684:182#0/1  
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+HWI-EAS443:3:98:1107:983#0/1  
]ba`[^a`YGZQ¥Y`bV¥Z¥b¥¥`bV]a¥XaaYa\_a\_\_Z\_  
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+HWI-EAS443:3:73:278:1359#0/1  
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+HWI-EAS443:3:86:789:678#0/1  
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+HWI-EAS443:3:97:1173:1195#0/1  
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+HWI-EAS443:3:61:1202:1263#0/1  
TM^X[a`Vb`a[X¥SZX^a\_\_aabbb\_aaKS¥a\_X^^R\_R  
@HWI-EAS443:3:90:1322:652#0/1  
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+HWI-EAS443:3:90:1322:652#0/1  
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CAGTGGTCTTAGTGAGTATCTCGCGGGTGC GGACTGAGA  
+HWI-EAS443:3:99:1408:386#0/1  
Y`abb¥b^bbKbba[\_ZZ][\_b[Q\_KbIbbb\_^V^W[BBB  
@HWI-EAS443:3:34:488:20#0/1  
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+HWI-EAS443:3:34:488:20#0/1  
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+HWI-EAS443:3:44:1645:351#0/1  
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+HWI-EAS443:3:82:796:1701#0/1  
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@HWI-EAS443:3:61:1120:493#0/1  
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+HWI-EAS443:3:61:1120:493#0/1  
abbb\_Z\_baaaba\_ab[a`aUYY¥V¥][][Y¥VWS]]V  
@HWI-EAS443:3:90:960:670#0/1  
CTGCTGTCTGGCTGTCAGTAAGTATGCTAGAGTCCCGTTT  
+HWI-EAS443:3:90:960:670#0/1  
abbaabba` `` `^^`b[aaaV\_¥Z¥^` `` `a` ]\_\_b]\_a  
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+HWI-EAS443:3:72:400:893#0/1  
aab\_\_abb`bbbaabbb\_b\_Q` ]]a\_aaaaa` ]a\_aX¥  
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+HWI-EAS443:3:98:85:110#0/1  
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+HWI-EAS443:3:30:14:1832#0/1  
abaa`baV]\_^GXabbaaa\_S\_a\_Z\_\_\_\_]Z\_WW]`a^]YO  
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aa\_V\_a`aa\_a`a\_\_aa`]X\_``^`\_\_\_`Y`\_\_^^^]  
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+HWI-EAS443:3:49:83:1408#0/1  
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a`T\_Xa¥^k\_ZW]R¥\_ZY¥[[X`^^¥\_\_\_\_\_V^[TS^[W  
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aa`\_\_a\_b`aaZ]S]\_V`Z^^`X[^\_V]]\_XVV]]ZUXY  
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R[[^PGTF[^GR^WH[W[ZU^YWWPZKWY[^GZ[[WRVRY  
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aa`aa\_aa`aa`a]aa\_\_`aaa````aUa^T¥^`^a`\_  
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+HWI-EAS443:3:73:700:1565#0/1  
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+HWI-EAS443:3:71:1410:866#0/1  
a\_\_a`aaa`a\_\_\_\_]a`]a`^^¥\_\_\_\_\_Za[]^\_^^X]]  
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a^ZT]^`\_`¥YW`P¥\_VXXBBBBBBBBBBBBBBBBB  
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^\_bb\_]`a`a¥¥a`a`]\_a\_abbaZZ¥a`T^a[Q\_SQJ  
@HWI-EAS443:3:37:839:1389#0/1  
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+HWI-EAS443:3:37:839:1389#0/1  
aba`^aababaaaaZaaaa`\_a`W^`Z[aQU]HWa`a`[  
@HWI-EAS443:3:10:546:322#0/1  
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+HWI-EAS443:3:10:546:322#0/1  
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@HWI-EAS443:3:11:1001:1258#0/1  
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+HWI-EAS443:3:11:1001:1258#0/1  
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+HWI-EAS443:3:11:364:1116#0/1  
aW`aaaYaX\_aXU¥Y`[\_\_\_Y`Za^\_aa[PZR\_\_\_]^¥`Y[  
@HWI-EAS443:3:16:1277:555#0/1  
CATTCAAATGGTTTGCCTGCTTTTCGCTAAAAATCCAGCG  
+HWI-EAS443:3:16:1277:555#0/1  
`Y]b\_]¥Y`^R\_b`PV¥ba`[UOZPQ]M[\_WYROTTKN^  
@HWI-EAS443:3:19:1248:1825#0/1  
CATCCATTCAAATGGTTTGCCTGCTTTTCGCTAAAAATCC  
+HWI-EAS443:3:19:1248:1825#0/1  
a`\_Q`a\_\_a\_Za¥^R^XU]^U¥^`a\_[Y¥Ya`Za]Z¥XX  
@HWI-EAS443:3:21:1698:1334#0/1  
TGCTTTTCGCTAAAAATCCAGCGCAAATGCCATAAGCAC  
+HWI-EAS443:3:21:1698:1334#0/1  
\_b`aaaab`abaab`aa`a\_a¥\_\_\_\_^\_a\_W]a\_a\_\_[a¥  
@HWI-EAS443:3:58:1641:1183#0/1  
GACATCCATTCAAATGGTTTGCCTGCTTTTCGCTAAAAAT  
+HWI-EAS443:3:58:1641:1183#0/1  
a[W]^`]^a`[`VY`TT]^TXTPHZSRa`Y`YX]¥SYY`a



@HWI-EAS443:3:64:673:1655#0/1  
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+HWI-EAS443:3:64:673:1655#0/1  
`[\_PY]`a`]]¥Y¥Z\_WU][\_`a``\_¥\_`^aa`aZ¥]]]¥  
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ATCCATTCAAATGGTTTGCCTGCTTTTCGCTAAAAATTCCA  
+HWI-EAS443:3:76:1126:1497#0/1  
abbbababbbbbbba`baaaaa`abaaaaaaaabaaaaY\_`  
@HWI-EAS443:3:77:430:602#0/1  
ATCCATTCAAATGGTTTGCCTGCTTTTCGCTAAAAATTCCA  
+HWI-EAS443:3:77:430:602#0/1  
aabb^abaa\_aaab^aa¥`\_`¥aY\_\_a\_aa\_X^Y^[\_^]  
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ATCCATTCAAATGGTTTGCCTGCTTTTCGCTAAAAATTCCA  
+HWI-EAS443:3:80:896:172#0/1  
\_a]^aab`a`^aaaXaaaa\_ab````L^^¥a`\_aaa^N¥Y  
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ATCCATTCAAATGGTTTGCCTGCTTTTCGCTAAAAATTCCA  
+HWI-EAS443:3:82:1770:336#0/1  
]``aYR\_`^\_a\_Y¥0\_`^GVa\_¥Y`][Zab^ba`]\_F[Z  
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CATCCATTCAAATGGTTTGCCTGCTTTTCGCTAAAAATTCC  
+HWI-EAS443:3:84:939:1161#0/1  
a^aaaaaaaaaaaa`^aaa`^aa`aaaa`aaaa\_```¥  
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a`bbbbbaa]bbbab¥\_bbWF]b`a\_aaaaaab^a]]`U`  
@HWI-EAS443:3:86:329:1348#0/1  
ATCCATTCAAATGGTTTGCCTGCTTTTCGCTAAAAATTCCA  
+HWI-EAS443:3:86:329:1348#0/1  
\_P^]G¥X\_`VPV^\_]¥XVZ\_[\_`PRWWR^\_`^^YXS[[NZ  
@HWI-EAS443:3:88:1198:273#0/1  
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+HWI-EAS443:3:88:1198:273#0/1  
abaabbbbbbbab``abbb¥`ab`bbbab]bbbbbaabW[^  
@HWI-EAS443:3:93:916:2044#0/1  
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+HWI-EAS443:3:93:916:2044#0/1  
aa`[Z`\_WL]bU\_aaa^R^aaaaa]`a\_`[Ua]\_\_PVZZ\_  
@HWI-EAS443:3:6:1058:1065#0/1  
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+HWI-EAS443:3:6:1058:1065#0/1  
aYT`\_`Y]W\_a`\_\_`\_^^`^`\_`^V[[[YW\_`^`YS\_Z\_  
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+HWI-EAS443:3:12:868:415#0/1  
Yaa¥^ZZJX¥U^XT]aa[aa\_`YQR\_baQ\_bb]ba\_]ba`  
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+HWI-EAS443:3:13:1584:1900#0/1  
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+HWI-EAS443:3:25:851:1848#0/1  
a`[a]aaaa`aY`\_]`a\_a\_\_\_a\_]W\_a\_\_¥\_Z\_\_a[\_^¥^  
@HWI-EAS443:3:31:1476:1545#0/1  
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+HWI-EAS443:3:31:1476:1545#0/1  
a`abba`[^aaa\_ba```a\_aaaa`aaa\_aa\_¥aa]``a\_  
@HWI-EAS443:3:33:740:867#0/1  
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+HWI-EAS443:3:33:740:867#0/1  
WT¥]]WT\_] ^XFSRa^aa]R^0¥aQaY\_¥VSTSOMFORXO  
@HWI-EAS443:3:48:515:352#0/1  
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+HWI-EAS443:3:48:515:352#0/1  
a[a[^VaX`a`a¥¥N\_a`aZ¥\_a¥\_¥¥\_`^^XU^\_ ^WNZ¥  
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+HWI-EAS443:3:50:84:333#0/1  
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+HWI-EAS443:3:60:231:169#0/1  
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+HWI-EAS443:3:64:1714:1670#0/1  
UT\_W\_\_bbUbb`a]^Z¥]`\_a`\_a`VWa`UZa[``\_WRY  
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+HWI-EAS443:3:44:1001:1629#0/1  
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+HWI-EAS443:3:54:110:96#0/1  
a`^`YVQJW\_ZIaZX^a]^`\_ \_WRMVGy^U^NXSSVWY[  
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+HWI-EAS443:3:14:373:747#0/1  
a`\_\_a`WXZa\_^G`SWQV]^N[a\_\_\_`UPVZU^QPTQN¥  
@HWI-EAS443:3:34:1047:1718#0/1  
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+HWI-EAS443:3:34:1047:1718#0/1  
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+HWI-EAS443:3:64:337:772#0/1  
^\_]ZY^`XTX¥aa`)]Y\_`\_W[^RSYZ¥SBBBBBBBBBBB  
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+HWI-EAS443:3:81:793:1876#0/1  
a]aa`\_XY\_XXFXUUVZVZ\_[QPPNX\_¥GJ\_\_\_\_X]¥SMX`  
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+HWI-EAS443:3:97:1130:1843#0/1  
O¥Q\_bbbbab]a\_bbbaaa[baabaaababbbbaaabU  
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GGAATGTCCCTTCTATTCAATCTAGAGGCCTATTTNGGGC  
+HWI-EAS443:3:63:766:1197#0/1  
``\_X\_^^aaa`aaaa````[^]^`¥Z[\_\_\_^[\_YD[Z^Y  
@HWI-EAS443:3:64:202:1773#0/1  
GAGGAATNTCCCTTCTATTCAATCTAGAGGCCTATTTGGG  
+HWI-EAS443:3:64:202:1773#0/1  
a`]Z]aXDUaaaaa`a`]W^Z``]\_]\_^R]X\_R]]¥PPZ  
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+HWI-EAS443:3:21:510:406#0/1  
aU`P^AS\_\_[aZVPaQRVPY[¥KKU^]VTTUUGG^]PGQV  
@HWI-EAS443:3:5:480:1832#0/1  
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+HWI-EAS443:3:5:480:1832#0/1  
abba^`a`b`\_b\_abaabababW^``aababba`[Y[^  
@HWI-EAS443:3:69:659:1523#0/1  
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+HWI-EAS443:3:69:659:1523#0/1  
aaabbab¥aa\_\_`¥\_\_\_\_\_a\_[Zaaa^\_\_^\_\_¥`\_^¥^W\_S  
@HWI-EAS443:3:11:444:1001#0/1  
AAAATTGAGACTGGCCACAGGATTGAGGAATGTCCCTTCT  
+HWI-EAS443:3:11:444:1001#0/1  
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+HWI-EAS443:3:11:807:1775#0/1  
a`aZHVU[[`^a\_[YY\_`aWW\_Y]]¥]^RVOV`XRRXBBB  
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+HWI-EAS443:3:15:1624:1062#0/1  
a`\_ababVa``a\_\_aaaa`a^````\_]a`Xa\_YY^XLW\_SZ  
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+HWI-EAS443:3:18:1107:36#0/1  
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+HWI-EAS443:3:18:1301:295#0/1  
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+HWI-EAS443:3:1:126:585#0/1  
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+HWI-EAS443:3:1:460:983#0/1  
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+HWI-EAS443:3:20:703:1499#0/1  
a`Z\_YX\_] [¥\_`W^ZS^¥¥]XXSY]X]]XYZXZ]^ZZX  
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+HWI-EAS443:3:20:882:725#0/1  
a`\_[ba`ba`aaa\_aa\_a`^a`a\_aa\_\_¥\_Y`a^¥]¥¥  
@HWI-EAS443:3:21:1008:2025#0/1  
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+HWI-EAS443:3:21:1008:2025#0/1  
¥`b\_^\_[Za`bbb\_aZabaa]aaaU[\_]a`a]¥a]GZa  
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+HWI-EAS443:3:21:233:475#0/1  
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+HWI-EAS443:3:23:1375:323#0/1  
ab`aabbbbaaabaZ`Yaaaa\_`¥X]a`a`\_\_]\_`[X]^  
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+HWI-EAS443:3:23:647:468#0/1  
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+HWI-EAS443:3:25:1024:1245#0/1  
aa]Z¥¥a`]a]b\_\_`¥aa`aa`T¥`X`][PNYJL\_^Z\_W  
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CAGGATTGAGGAATGTCCCTTCTATTCAATCTAGAGGCCT  
+HWI-EAS443:3:25:1424:332#0/1  
^bbbabbbbbbbbbbbbbbbbbbbbbbbbabbaaabaab  
@HWI-EAS443:3:25:178:229#0/1  
ACAGGATTGAGGAATGTCCCTTCTATTCAATCTAGAGGCC  
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a^V\_aX```¥aa`^`U\_a\_]¥]]X]XY¥[[\_ZZR¥ZP[^

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+HWI-EAS443:3:28:1502:1577#0/1  
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abb\_b`bbabba`^a`aab`\_a\_aaa\_`\_`\_`a\_`\_`\_¥W  
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CTTCTATTCAATCTAGAGGCCTATTTGGGGCCATTGCCGG  
+HWI-EAS443:3:2:1019:1478#0/1  
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+HWI-EAS443:3:2:560:101#0/1  
\_a\_\_bb\_b`]^aa\_^b^aNS^\_`\_a\_Q^^\_]\_\_^¥]\_W  
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GGCCACAGGATTGAGGAATGTCCCTTCTATTCAATCTAGA  
+HWI-EAS443:3:2:703:407#0/1  
N^WL[^Xa\_[^b]V]b`b[aV`¥\_bbZaabaaU[b`[aab  
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+HWI-EAS443:3:31:324:1941#0/1  
a\_\_U]`^[X`aaP]S¥\_V^\_Y]^ZX[S\_a[U\_NaTWNNQ  
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+HWI-EAS443:3:32:1061:401#0/1  
QX\_ZT\_Xa¥^`\_¥¥\_UZa`\_`a\_[\_WZQ^[]][WRY`a`a`a  
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+HWI-EAS443:3:32:1687:1224#0/1  
aY][aa^baa`WFWY\_ZM[\_]MYY[QaaQ]^SQEDZ^V¥  
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+HWI-EAS443:3:33:1445:984#0/1  
aab\_P^bba`aYaaa\_aaaa`\_aaaaYa^`\_]PUWV\_N^`  
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+HWI-EAS443:3:34:1594:1062#0/1  
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+HWI-EAS443:3:34:920:789#0/1  
`aa`a^Z]aa]a`aa`aa\_aa^^Z^]\_a[^\_]\_^^YXX  
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+HWI-EAS443:3:35:1212:1943#0/1  
aa`a[^^^aab\_F¥X¥\_\_¥^V\_ZZU^XQ\_U]PY`Y¥W¥U^  
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+HWI-EAS443:3:35:1346:1437#0/1  
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+HWI-EAS443:3:35:403:383#0/1  
\_`b`b^babbbaaa\_\_\_\_]`a]`a[``^`S^aaa¥\_\_[W  
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+HWI-EAS443:3:35:725:1146#0/1  
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+HWI-EAS443:3:38:1080:94#0/1  
a¥^\_\_a\_]a]aaa\_\_abaaaaTa`\_`¥^YPXXX^\_\_]]V  
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+HWI-EAS443:3:38:232:271#0/1  
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+HWI-EAS443:3:38:490:2004#0/1  
a\_Z`bbaaaaa\_a`¥aa`a`a\_\_W\_aa\_SKKZ¥ZQY^¥T  
@HWI-EAS443:3:38:999:734#0/1  
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¥\_[\_S]\_Z\_X\_\_W\_`aZYY`T^`\_¥a`[WQV`QZ]`YFOR  
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aaZ^`aab`W`ba\_a`¥a\_a\_ba¥¥aa[^]\_````\_¥\_Z\_]`  
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+HWI-EAS443:3:22:513:545#0/1  
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+HWI-EAS443:3:50:448:1121#0/1  
^ZVaZS^`WTSba\_`aW`S]TX`U\_\_\_XaY\_\_a\_RWXTY^  
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+HWI-EAS443:3:53:937:485#0/1  
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CAATGCATGTGTGAGGAAGGAGTTGAACCAAGATGCATTA  
+HWI-EAS443:3:100:113:1323#0/1  
WQ\_a\_U\_^`R`\_`[\_`^aaa¥SOZ^[ZXF^Xa\_WaRW``\_  
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+HWI-EAS443:3:10:1205:302#0/1  
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+HWI-EAS443:3:18:1088:705#0/1  
abaaa`a^baaaaaaaaa]aa\_[a`aaaaaaaa`\_aaa`  
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+HWI-EAS443:3:19:758:233#0/1  
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+HWI-EAS443:3:1:239:1964#0/1  
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+HWI-EAS443:3:21:486:719#0/1  
a`aa\_a\_] [ ]a[T`\_X`^a]`U¥\_\_^]\_^¥^U^]\_^]^  
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+HWI-EAS443:3:38:262:953#0/1  
aaaabbaaaa`aa^aY`[`[¥`a\_^`Y\_\_\_\_]^)`\_`\_]Y\_`]  
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aa`[baab¥`a^^`a`\_aGX^]Z`\_\_aaa`Y``\_`U¥^U  
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+HWI-EAS443:3:43:392:353#0/1  
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+HWI-EAS443:3:44:71:2029#0/1  
a\_R0[R[0\_a`bRUFX``[W\_\_aYa^[aaa¥a\_\_[RS`]]  
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+HWI-EAS443:3:4:644:1750#0/1  
a`\_aaab^a^`a`^a\_a\_¥^^`\_\_U\_\_`^]`X\_\_^`¥^  
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+HWI-EAS443:3:55:1137:1133#0/1  
`^Y`Y\_X¥U^bb\_ZP`\_bba^`]\_\_]bb^]NX¥]]\_ab]`  
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+HWI-EAS443:3:62:1660:1114#0/1  
\_S\_NU`a\_Y`a]P¥b`a]UM¥`a^`^`Y^`a`VQ[T``a  
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+HWI-EAS443:3:68:1485:1540#0/1  
a[I¥U^^a`Kaa^[T]aV¥a[RUTW\_\_aX```UPaV[S\_a  
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+HWI-EAS443:3:73:1074:1792#0/1  
aaaaa¥]ab\_aaa\_[Qa^a\_¥Yaa]VS`\_aaa\_^`[`aV  
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+HWI-EAS443:3:7:834:1705#0/1  
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+HWI-EAS443:3:91:1319:1237#0/1  
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+HWI-EAS443:3:9:399:1143#0/1  
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+HWI-EAS443:3:84:1023:1831#0/1  
aaa`aaabab\_ab\_\_aa\_a^[`a`Z`aa`^X¥`\_\_\_\_]R][  
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+HWI-EAS443:3:36:1544:1129#0/1  
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+HWI-EAS443:3:44:477:460#0/1  
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+HWI-EAS443:3:72:645:1319#0/1  
aaba\_X¥a``¥`^\_\_aaa\_U\_aaa\_[\_\_`\_V\_aZIZS]ZZ  
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+HWI-EAS443:3:96:1283:686#0/1  
XY\_Z¥`VPT[I\_Z`YS]\`Z`^U00¥GY\_a\_^bZ[UaY]a  
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+HWI-EAS443:3:92:335:1792#0/1  
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abaabab^^aaaaababba`aaa`aabbabaa^^aaa\_\_a  
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+HWI-EAS443:3:43:845:851#0/1  
I¥WYO^`¥W`^^ZRW[Z\_bb\_XXab`Z\_X`K[a^WY` `]S  
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CCCCACTTACTATCAACTGGATCAATCTCCTGGTTGCCTT  
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GCTCTCCACTTACTATCAACTGGATCAATCTCCTGGTTG  
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`[\_a^`]\_W\_¥XV\_`V^^^^`\_a]Y^[UYa`\_VZ^^^^VB  
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a^aba` `ba[aaaa]a`a]aaa¥`b`^a`\_` `a\_` `\_\_^^  
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+HWI-EAS443:3:12:257:706#0/1  
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+HWI-EAS443:3:13:1393:1531#0/1  
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+HWI-EAS443:3:15:1201:1011#0/1  
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+HWI-EAS443:3:23:861:1915#0/1  
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a\_Y][[^aaZ`a¥\_Z`a]a\_]Q`]aT`TT`\_`\_`[^\_`¥  
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aa\_aaa\_[a\_]aa\_a\_]a`Z[\_`¥\_\_W¥`^YTTZ¥`^aW]  
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a]aaa`ba^aa]X^\_aa`a\_```a^`aaa`T^a`^]¥]XV  
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aZV^[¥H`aa]^ba[POX][\_aaZM`````\_VU[\_XX\_] ]]  
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a`aW¥\_b\_bbab\_bbab^a`bba`ab`])`a]`aaaaX[]T  
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+HWI-EAS443:3:33:1109:1009#0/1  
a\_X^`ba¥HYa\_a\_[]`¥aZT`[V¥aW``\_`¥T¥¥^¥YW¥  
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+HWI-EAS443:3:36:1063:943#0/1  
`ba\_baXbb`baaaaab`P]a¥\_a`\_a\_aY[Y\_\_a\_U^VU  
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+HWI-EAS443:3:37:808:598#0/1  
aaa[X\_^[¥[\_aVW[\_P¥¥Z^Y```\_`a[DLSR\_`¥QRV¥¥

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S\_¥Sa`bbb\_\_W]aaaba`\_`a]aa¥^\_[`¥aab``¥a\_  
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+HWI-EAS443:3:39:151:247#0/1  
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+HWI-EAS443:3:3:885:1809#0/1  
aa\_aaUa`a\_^¥Va^\_\_\_a]V`a^¥^\_\_\_]`^\_R`]\_SH[\_  
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a`\_`a^\_`aXaa`U^V¥]^W]]]YQT^OYY]VYYYYVXV  
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+HWI-EAS443:3:42:362:205#0/1  
a\_aaa¥a\_a`Waa\_U\_^¥`^\_`]`a^U^]U[W^\_¥^\_¥^^  
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+HWI-EAS443:3:42:88:2002#0/1  
`a\_^aVWQ¥W¥W\_¥¥\_\_PXZW\_¥WWZSYH¥PLVR^]`  
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a`a`]aabaa[aaa]`W`]\_\_aaaaa[aaa`]`^¥`  
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aaaa[aaa\_b\_aZa`\_^b`\_\_aaaaUaU`\_^\_\_\_\_`\_]`  
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+HWI-EAS443:3:51:261:197#0/1  
aba``bbbaa`^baabaa`aW`\_a^ab^[a¥a¥^a`^V\_  
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+HWI-EAS443:3:54:248:385#0/1  
\_]`a¥W^^a`bb^\_a\_\_baa`\_UY`^0^aWT¥ZU¥]`RT  
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GCGACTGAACCCTATGCACCAACTCTTGAGGCATTTCCAA  
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+HWI-EAS443:3:55:844:1736#0/1  
a¥aUYa`\_Wa`\_ZZU]a\_W\_]\_\_\_\_\_QVQ[[X`]^]¥X  
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+HWI-EAS443:3:56:1043:1463#0/1  
aa^``¥[\_`¥S[Z^\_a¥^UW¥\_U]`¥¥]]W^V¥Q\_Z^¥\_W

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aa\_`^aaaaa]aa`a`[aU\_\_\_Y]``V`\_^aa`\_]UW[`^  
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+HWI-EAS443:3:56:147:1273#0/1  
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+HWI-EAS443:3:56:1759:1539#0/1  
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Vaa````^bba]\_]aaXaaabb`\_a\_a`b[bba^P`aa\_  
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a¥bb`a`baab[Raaaa`a\_`a\_[]`UT^[]`^^RT[\_  
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aaaaaaaa`ab]`aaa`aa\_a\_aZYa`T^a^`Y¥]^`^a^  
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+HWI-EAS443:3:58:905:588#0/1  
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aba`aa`a\_baaa\_\_\_\_\_aa`\_a]`^^\_Y\_]\_Y^VYY^  
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+HWI-EAS443:3:61:769:992#0/1  
¥b\_`W`b`]Z\_`V[^OZYZH]^YU\_¥X]``\_]QW\_[XUYV  
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+HWI-EAS443:3:62:475:773#0/1  
aaV¥R]`^`aa^[a`]Y\_\_]¥`bSaUXT]]Y\_¥`a`aZV\_  
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U\_[[`\_a\_s\_a[S[\_0\_¥b]b`\_[[^UGYHXb]MY¥VNRI  
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+HWI-EAS443:3:63:186:1168#0/1  
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+HWI-EAS443:3:63:496:1412#0/1  
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+HWI-EAS443:3:68:784:767#0/1  
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+HWI-EAS443:3:69:256:18#0/1  
abb^S`a` `baaa[\_aabaaa\_]X` `a`¥[^`V`]S]\_R

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a\_aa¥^\_a\_YZXZS¥\_\_^¥¥^`\_]\_][WWY]WY^ZX  
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+HWI-EAS443:3:69:772:568#0/1  
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+HWI-EAS443:3:72:635:1164#0/1  
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+HWI-EAS443:3:81:464:294#0/1  
aaaababaaaaaaa`\_V^\_a^aa\_X`Z]^``\_W]\_\_  
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+HWI-EAS443:3:84:850:1645#0/1  
aa`^`b`^a\_]\_a``\_a\_[a^`aaa`\_P\_aaa\_\_aa``^^  
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¥]\_baab`^^[¥`]a`ba\_¥\_\_`aXa`U^b``a``\_YVP  
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aaa`X]]¥^`a`\_`^b¥\_aS^W¥^SW¥S]¥Qaa`PUM^\_  
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a`abaa\_aaaaaaaaa¥a^`b``a\_`aa^`\_`^`X`^^a^\_  
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+HWI-EAS443:3:94:1288:910#0/1  
a\_¥`X^^\_N]\_[\_]V`Uaa`V`]¥WQZWS^¥¥¥N[]¥YW\_



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a]\_a`ab\_H\_Zaa¥^`[\_aX\_bV\_]\_Y\_\_aV\_`SW\_V^V  
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a`abbbbbbbbbb`bb`aaaababba^b`bbaba^NY`b\_  
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+HWI-EAS443:3:21:274:1342#0/1  
P[`a]W`b`b\_WW`a\_b\_¥^`¥aa]aab`\_HHS`]b`abM  
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+HWI-EAS443:3:56:661:1228#0/1  
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+HWI-EAS443:3:11:1220:1202#0/1  
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+HWI-EAS443:3:7:141:984#0/1  
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[\_]^X`[\_`V\_\_Ya\_aaaHUZZUZV\_R`[[VZ[`  
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^aa`a\_WX^abbb`ZYa`Y^bb¥U` ``VLDHY`\_[X`\_]U  
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Z\_NTaK\_a¥[SU¥a[VZU¥`WLYOW¥[]^¥P¥\_U¥[\_ZU\_  
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aaa` `aa¥a`\_\_a¥\_a\_\_\_]¥\_\_^\_\_^¥`\_¥¥¥¥¥^^Z\_  
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+HWI-EAS443:3:99:648:560#0/1  
a\_a[]`\_`\_`\_`\_`\_[T\_\_^\_W`Waa\_¥\_^\_¥^T^¥YZN^\_¥  
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TATACAACAGGATGGGAACAGTGACCACAGAAGCTGCTTC  
+HWI-EAS443:3:35:539:155#0/1  
Z\_bb`ba]Z[SW\_`R`ZYZ`]X^aaaWLZ[]P]Z¥XUR[J  
@HWI-EAS443:3:64:1064:1169#0/1  
GCCACAGAAGCTGCTTTTGGTCTAGCGTGTGCCACTTGTG  
+HWI-EAS443:3:64:1064:1169#0/1  
W^b^\_\_[T`Ybab[`V^¥¥[T^bU¥H^¥aNyaaaaQWZXZ  
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GTCAGGATATAGTGGGAGTTTTGTTTCAGCATACAGAAATA  
+HWI-EAS443:3:51:401:190#0/1  
¥0¥[^aab]`[`HZaabT^[[V[]XRY¥\_ZNO^\_`¥DU]  
@HWI-EAS443:3:28:453:1554#0/1  
TGGGAGTTTTGTTTCAGCATCCAGAACTAACAGGGCTGGAT  
+HWI-EAS443:3:28:453:1554#0/1  
]a¥¥^`]aa^a\_aab]bbab`^W¥`aaaaaa`a[a`a\_\_^  
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GCCGGCTTGAACCTTCTGCTGTATCTTGACGTCCCCACAA  
+HWI-EAS443:3:44:1636:814#0/1  
aaaaa\_a\_VU]R]a\_\_`Y^^`¥Y]S^\_WRDR[STV^VOLT  
@HWI-EAS443:3:93:1191:995#0/1  
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+HWI-EAS443:3:93:1191:995#0/1  
aY]LW\_`OSPOXNNZUXFX\_\_Y]a\_XTWTGTaZP`RZGV^  
@HWI-EAS443:3:19:994:1215#0/1  
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+HWI-EAS443:3:19:994:1215#0/1  
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+HWI-EAS443:3:12:1574:1054#0/1  
aabaa`aab`ba[\_aaZa`aaRZaYV^XZaV]a\_ZY\_\_^]  
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GCTCTGCCACTTTTTATTCTGCTCTGGAGGTAGTGAAG

+HWI-EAS443:3:7:713:321#0/1  
``\_`a[a\_aa\_aaRabaa\_a`Va\_]``\_`\_N]]U]UBB  
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+HWI-EAS443:3:43:772:1123#0/1  
H^bbbbabbbbabbbbabbbba`ababbbba`Xabbbbab  
@HWI-EAS443:3:9:1455:1976#0/1  
ACGCAAAGAACAATAGGGAAGAAAAACAAAGACTAAGAG  
+HWI-EAS443:3:9:1455:1976#0/1  
a\_\_L]\_aa\_`¥`[]\_`\_[]`a[\_`\_Y\_Q\_\_^a^V^`\_\_a¥  
@HWI-EAS443:3:10:751:1365#0/1  
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+HWI-EAS443:3:10:751:1365#0/1  
`a\_``¥`ab`aYa^\_aa[G^\_W][`P`Y\_\_]W`^`^^`[[  
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aba\_\_YDY¥F]^`\_[]a`RRYa\_baa\_\_```]^a]TX\_\_  
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+HWI-EAS443:3:73:674:1194#0/1  
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aaa^`a\_aa`a`Za`a`VZ`^]\_^`]^X`\_`^`\_a¥^\_  
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TGGTCCTCCATCTGATACTAATAGCGCTACTTTTGATTGG  
+HWI-EAS443:3:8:1220:207#0/1  
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+HWI-EAS443:3:46:164:190#0/1  
`YH\_[aYX[`^N]TD¥\_YRaXNXUVYR[UYVTQXY\_UYV  
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CCCTAAGTGCCTGAACAATGAGAAGCAATTTTCTATTGCA  
+HWI-EAS443:3:72:1085:742#0/1  
V\_b¥`]X\_W¥M¥aa`\_X^QX\_[YWN]^aa^\_b``aba]^`  
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aabbabbbb^aaaaabaaaaabaaba`baaaaa\_aaaaa  
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+HWI-EAS443:3:16:1358:656#0/1  
ab^baaaaaaaaaaaa\_aaa`aa\_a^`\_^aZa```^`\_\_`a  
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a\_`\_^X¥a^`W` [¥P\_a\_T\_\_aa]`a^\_a[aa`aaa^`  
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GCCGGTTTCATTGAAGGGGGTGGACAGGAATGGTAGATG  
+HWI-EAS443:3:75:1107:139#0/1  
a\_R\_aZaa\_aaaa]Q`a^a^aM^\_UUQ¥\_¥¥\_a\_UVZWW`  
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CTCTGGGTGACTCTCCGATTGGCCATGTTCCGATTTGTT  
+HWI-EAS443:3:67:1648:1643#0/1  
abbb`bb\_ba`bbb`ababbaaaaa`W]aa[aZSXaa`\_]\_  
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a`)]`[`ab]a`R][`\_bSU]ba`BBBBBBBBBBBBBBBB  
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+HWI-EAS443:3:16:1199:87#0/1  
\_]\_]\_aS`R][VZ\_^R`\_¥\_^VP[WY^WX\_¥ZTRNQG UUB  
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+HWI-EAS443:3:17:1037:388#0/1  
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+HWI-EAS443:3:19:1049:1597#0/1  
`\_[a]\_\_\_`aa^`a\_\_¥W\_a¥\_^W\_\_`¥]]TZ^`¥Y¥ZB  
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+HWI-EAS443:3:32:602:1362#0/1  
¥X\_aaaa`¥`aaaaa`[]`aa][[``a`^ZaYRL]TR¥  
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+HWI-EAS443:3:42:409:1884#0/1  
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+HWI-EAS443:3:65:363:2041#0/1  
¥^\_bb\_[a`a`NZa]a[`aaS]a`\_\_Y`\_¥RQ`\_PRSZS^  
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+HWI-EAS443:3:87:541:1712#0/1  
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aa\_abba`babb`aa\_]`a\_b`aaXZ`baa]¥]Naaa`\_¥  
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CTCCACAAGAAAATTGCTTCTCATTGTTTCAGGCACTTAGG  
+HWI-EAS443:3:33:1224:1438#0/1  
aabbabaaaaaaaaaaaaaaaaaaaaa\_``aa[R`\_a\_``\_  
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+HWI-EAS443:3:2:1271:837#0/1  
`a```[\_Y`aaaa[]N[aa\_\_a¥VN\_\_a\_\_a\_¥¥¥¥\_S\_  
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^a^XXZ\_aX\_aVPH\_^b`b]]^XST]`aa]ZUXX^Q]BBB

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+HWI-EAS443:3:78:737:1325#0/1  
aaa\_OHZV]RT¥R¥Y]ZXa`XU]OX[HZR¥¥YJHTUHHKX  
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+HWI-EAS443:3:16:588:381#0/1  
\_\_aba\_V^a^a]\_aaba¥\_\_a^^aba`a`aBBBBBBBBB  
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GCTGGAATCAACAAGGATTTACCAGATTTTGGCGATTAT  
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]`b`^`b`aa[^baab^`ab\_]¥aaaaaaT`^^^F[BB  
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+HWI-EAS443:3:45:515:1064#0/1  
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+HWI-EAS443:3:43:1207:1403#0/1  
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+HWI-EAS443:3:47:1705:192#0/1  
``aaaaabbab\_]Q\_\_]¥I`^^\_V\_\_^a^UT\_¥FFMZXR¥  
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+HWI-EAS443:3:16:620:1294#0/1  
a`ab\_OV[R^a\_RM^aKaa\_`a]]`Sa¥TY^\_[RQ[\_^]]  
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+HWI-EAS443:3:37:654:1375#0/1  
\_K`\_\_Z\_`ZaY]`aa^[[[M^RWWa\_\_INH\_aa[a[VXT  
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+HWI-EAS443:3:9:462:1556#0/1  
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a^Y`abb]]aaabbaaaZaaaaa\_aaa[¥a\_[\_a\_\_VHU  
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+HWI-EAS443:3:37:1395:1841#0/1  
^¥\_UWT^Z^WMXWY[\_¥ZY[a^URZV][WFYY]XKMSPWL  
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+HWI-EAS443:3:34:1441:423#0/1  
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+HWI-EAS443:3:15:1605:1346#0/1  
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+HWI-EAS443:3:75:1471:564#0/1  
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a`a\_bZaXba¥ab]UQ`XW[`YRPKDHM`aa`[VT`\_[TT  
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+HWI-EAS443:3:42:435:1806#0/1  
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+HWI-EAS443:3:80:1194:1125#0/1  
abb`abaabb`bbaabb`baaa\_a`b\_a¥\_aa`aaaa\_`\_a\_  
@HWI-EAS443:3:98:58:743#0/1  
AAAATGGGACTTATGACTACCCAAAATACTCAGGAGGATG  
+HWI-EAS443:3:98:58:743#0/1  
a`aaaa`\_`^aa```a````^^[\_`^`¥\_Z`\_]\_\_^Y`ZZ`  
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+HWI-EAS443:3:46:1537:2020#0/1  
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+HWI-EAS443:3:100:144:946#0/1  
aaaababb`b`aaa]\_aaaa`\_a```aa\_\_aa\_^W¥¥^]\_B  
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ACTAATTTTACGGAAACCACTGACTGTCCAGCAGCAAAGT  
+HWI-EAS443:3:39:282:658#0/1  
a`a¥¥aaaa`\_a`¥Q]\_\_\_\_^^^\_X\_YUPW[UZRW]^X

@HWI-EAS443:3:18:449:1322#0/1  
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+HWI-EAS443:3:18:449:1322#0/1  
aZY`]aaa`ba`b`\_\_bba\_a\_a`a^a^aa`\_]^[P  
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+HWI-EAS443:3:29:1615:1639#0/1  
aa\_a`\_aaa`a¥`\_aaa\_]^^`\_\_\_^^`\_`\_]\_\_^^]\_  
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GTGGTCCAGTATCGTCTAATGGGGCAAATGGAGTAAAAGG  
+HWI-EAS443:3:32:970:207#0/1  
aXa`]\_\_Z\_Z^]X^ZWZU¥ZL[GUPTTV^TXM^TUX^[]U  
@HWI-EAS443:3:72:1006:1087#0/1  
AGGNCTCCTGTCTTTAATGGTTCCATTGGAATGTTTGTCA  
+HWI-EAS443:3:72:1006:1087#0/1  
aa¥D[`]X[[a`^aa`^`a]]aa`\_a\_]SP^]¥a`^X]U  
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+HWI-EAS443:3:72:115:918#0/1  
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AGGGCTCCTGTCTTTAATGGTTCCATTGGAATGTTTGTCA  
+HWI-EAS443:3:52:195:1340#0/1  
aa^\_a`aaaa\_]\_`\_\_\_\_\_`]]]\_\_`\_]]]\_\_]]^]YWA  
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+HWI-EAS443:3:71:1089:89#0/1  
aaaa`baaab\_\_`aaaaaaaa^a\_[\_a^aa\_\_`a^\_a`]X]  
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a`Kab`^b\_aaaaabaa`a\_\_b\_\_]\_a\_\_\_\_`^^`a^\_a^`  
@HWI-EAS443:3:87:957:1619#0/1  
AGGGCTCCTGTCTTTAATGGTTCCATTGGAATGTTTGTCA  
+HWI-EAS443:3:87:957:1619#0/1  
aa]X`ZX\_]MWZHLQa`¥`\_UaU]YNSFRX¥Z[PF[NK[X  
@HWI-EAS443:3:95:1084:1636#0/1  
AGGGCTCCTGTCTTTAATGGTTCCATTGGAATGTTTGTCA  
+HWI-EAS443:3:95:1084:1636#0/1  
¥^`ab]\_SZS¥Vb`^a¥H]T^^V]XX]¥[]SV\_``LLXS  
@HWI-EAS443:3:63:19:187#0/1  
AGCACAGTCAGCACTCATTCTGAGGGGATCAGTTGCACAT  
+HWI-EAS443:3:63:19:187#0/1  
Z^aZ\_]U]OZ[^U[`X¥T[YNT^^\_NFUVMXGZ^UQFMB  
@HWI-EAS443:3:51:240:896#0/1  
TGCACACTGATCTGGCCTGCGGATGCCCTTTGTTGATTGG

+HWI-EAS443:3:51:240:896#0/1  
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@HWI-EAS443:3:6:1123:1506#0/1  
TGATGGGGAGCGCCAGGATGCCACAGAAATGAGAGCATGT  
+HWI-EAS443:3:6:1123:1506#0/1  
L` `Zb\_¥W]b¥QQ¥T\_QXWJ^`XRTaa\_HYDV]abJ]LGS  
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+HWI-EAS443:3:61:1379:931#0/1  
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@HWI-EAS443:3:7:1511:373#0/1  
GAACAAATGGAGACTGATGGGGAGCGCCAGGATGCGAGAG  
+HWI-EAS443:3:7:1511:373#0/1  
G[bUVV\_XTbbaaU^` `]`Ub`UV\_GJ^b\_\_Tha^H¥HVb  
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+HWI-EAS443:3:91:1256:2013#0/1  
abZaaa` `abTZZ`\_ZD[SP`\_`aaabbaaS`IX`aaRO  
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CTCTGATTTCTGTGGCATCCTGGCGCTCCCATCAGGCTC  
+HWI-EAS443:3:28:708:611#0/1  
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+HWI-EAS443:3:57:1680:943#0/1  
aa\_b`baabbb^aa\_]`a`¥Z^V[¥^¥^^VY^¥^[Y¥Q[  
@HWI-EAS443:3:63:808:1288#0/1  
ATCCCATCAGTCTCNATTTGTTTCATATGATCGTTTGGTG  
+HWI-EAS443:3:63:808:1288#0/1  
^^baba^^a` `aaa[DTaaaa`aaabaaaa`a`a`a^V^  
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+HWI-EAS443:3:18:1636:106#0/1  
aa`¥PTbaSa`^¥a¥a\_^GVN¥VYSGSZXNRWVUGNRWGS  
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+HWI-EAS443:3:20:917:1215#0/1  
ab^Y` [ ` `]QRGQRSQVY¥ZRO[ ] ] ]aXN]U]S`aSPP  
@HWI-EAS443:3:21:889:1866#0/1  
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+HWI-EAS443:3:21:889:1866#0/1  
aZ\_^]X¥]a\_USJZ¥aZ` [Y`Sba^aa\_S\_G\_¥Z\_\_UZ]W  
@HWI-EAS443:3:22:178:360#0/1  
ATCCTGGCGCTCCCATCAGTCTCCATTAGTTCATATGAT  
+HWI-EAS443:3:22:178:360#0/1  
aba` [ ` ¥ab`aab\_a^a]\_a^\_a[aZ`\_GHUa\_\_`^][[Y  
@HWI-EAS443:3:33:791:1088#0/1  
ATCCTGGCGCTCCCATCAGTCTCCATTTGTTTATATGAT  
+HWI-EAS443:3:33:791:1088#0/1  
a[ `a[aaa¥^V` \_\_aT[\_NSRYYZ¥RSZ]MMRFN¥UZMUV



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a\_\_`abbaa^`^bbaaaa¥aaaX\_X\_\_RZ`¥ZNY[[\_[  
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+HWI-EAS443:3:50:1486:353#0/1  
aabaa`\_`^aY¥a^aY¥\_Z]WY\_^TVP`ZFX`0]`V]]V]  
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TCCCCGTCAGTCTCCATTTGTTTCATATGATCGTTTGGTGC  
+HWI-EAS443:3:62:1755:522#0/1  
Z]\_\_\_¥ab\_ZYY]`a`¥]^\_X^N[`U[W^QTRWZUPNY¥¥  
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CGCTCCTCATCAGTCTCCATTTGTTTCATATGATCGTTTGG  
+HWI-EAS443:3:65:440:995#0/1  
a`a`aaaaaaa[PS]a`¥`\_`\_`[\_\_\_\_`a^`\_`\_]U\_]\_¥  
@HWI-EAS443:3:69:412:1356#0/1  
ATCCGACATGCGAACCGAAGTTATAAGAATGACGGAAAGT  
+HWI-EAS443:3:69:412:1356#0/1  
a^^a`]`aa`aYV¥¥F[\_aa^`[^\_^]`X¥`\_`\_\_^X^VP  
@HWI-EAS443:3:79:1487:1695#0/1  
CTCTGATTTCTGGGCATCCTGGCGCTCCCCATCAGTCTC  
+HWI-EAS443:3:79:1487:1695#0/1  
^^\_bbabbbY[F]^`\_]^[aa^\_aa\_a^aU]]¥JGFL]Z  
@HWI-EAS443:3:83:1458:1799#0/1  
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+HWI-EAS443:3:83:1458:1799#0/1  
J`b^UaU\_aaZbaaaTbaa]RbbaaZbJ`\_Ua`bUH^b\_U  
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+HWI-EAS443:3:84:1354:1525#0/1  
`a\_JYITVSW[]`[a^¥WZQ][¥RR^N^J\_GQ`[ONNT[  
@HWI-EAS443:3:89:502:2021#0/1  
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+HWI-EAS443:3:89:502:2021#0/1  
]¥`\_RF[\_Q\_^a`\_XUU¥WU\_Z\_Z\_¥TZHVOZ¥aa\_aVOL  
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TCTGATTTCTGTGGCATCCTGGCGCTCCCCGTCAGTCTCC  
+HWI-EAS443:3:92:939:207#0/1  
V\_Z\_Ja¥Z\_bb^¥Z^aa``abb^^VP[U]^JHHHP¥U[U  
@HWI-EAS443:3:7:132:1348#0/1  
AACGATCATATGAACAAATGGAGACTGATGGGGAGCGTCA  
+HWI-EAS443:3:7:132:1348#0/1  
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GCCATCAGTCTCCATTTGTTTCATATGATCGTTTGGTGCCT  
+HWI-EAS443:3:91:1141:188#0/1  
I\_`baaab\_T¥`\_Z\_bb`^`aa^`b`^^aa```XP\_[F]  
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+HWI-EAS443:3:97:236:1106#0/1  
]^a#\_S\_a#W\_a`a^a`^SX#DVTY[MO]#\_XYY#]XT[V  
@HWI-EAS443:3:9:939:565#0/1  
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aa`a^X]a^aa\_\_Uaaa^Xaa\_aXDXVU]^\_#]a]aX`a\_  
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+HWI-EAS443:3:12:1504:167#0/1  
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+HWI-EAS443:3:20:1350:816#0/1  
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CACCCATCAGTCTCCATTTGTTTCATATGATCGTTTGGTGC  
+HWI-EAS443:3:42:514:878#0/1  
aaaaaaaaa`^`^]R`baaa\_a\_aaa#a`a`a`a]\_WX^  
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+HWI-EAS443:3:58:383:891#0/1  
abbbbaabb]aab\_]#ba`bUabaaa`aa`aaaa\_b  
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a`a`\_`X`a`#^Y^]#^TRTX]]]X]Xa^`#Y#PV^U]ON  
@HWI-EAS443:3:21:28:68#0/1  
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+HWI-EAS443:3:21:28:68#0/1  
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+HWI-EAS443:3:25:339:299#0/1  
aabbbaab^aZR`SWZ¥¥]\_JV`PX]RQYT¥[Y^U[V`  
@HWI-EAS443:3:31:1138:512#0/1  
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+HWI-EAS443:3:31:1138:512#0/1  
a]bX`\_]`aa`\_G]aZ`¥]^]X`[\_a`X\_V\_\_aVZ\_\_¥K  
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GCCCCATCAGTCTCCATTTGTTTCATATGATCGTTTGGTGC  
+HWI-EAS443:3:48:848:1197#0/1  
\_\_\_\_¥``[]\_^]]]a^a\_a¥`a^`a`a`]`T¥Q\_`V\_X  
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+HWI-EAS443:3:48:966:1593#0/1  
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+HWI-EAS443:3:4:214:891#0/1  
aaabaa`abaMU`RPH¥YaW\_Z¥a\_^a\_`^a[Z\_[[]^B  
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+HWI-EAS443:3:61:1503:1096#0/1  
N[b\_Q^YaUUaaZbbbbYbaa`a\_[¥bbbVab\_`b\_b][[]  
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+HWI-EAS443:3:63:1041:1599#0/1  
¥Z^`WZ¥W^`b[TLT\_a]]Z]^Z¥R`]W\_aWLW\_`BBBB  
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+HWI-EAS443:3:69:1302:1024#0/1  
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@HWI-EAS443:3:73:849:1174#0/1  
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+HWI-EAS443:3:73:849:1174#0/1  
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+HWI-EAS443:3:85:600:1194#0/1  
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@HWI-EAS443:3:100:1155:673#0/1  
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+HWI-EAS443:3:100:1155:673#0/1  
T`bbbZbbbaab````bb]]]bbbb`aZTVaaba`\_aaS]Z  
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+HWI-EAS443:3:100:56:819#0/1  
`b)``bab^]baaa¥\_aa¥`b`a`\_aaV^¥]^a\_Y[TBBB  
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+HWI-EAS443:3:10:139:327#0/1  
aaaa^¥a[X¥\_`\_`\_\_¥`^\_\_¥`^^^`^^^\_[¥`Z[^V[V  
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+HWI-EAS443:3:11:1043:1211#0/1  
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+HWI-EAS443:3:11:1780:870#0/1  
V¥`ba¥`¥`[^XH\_[WY\_W]aX\_QY¥VW]a^^YR¥`G]RB  
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ab`\_aaabaZa\_Y\_\_`\_aaa`ba`^`¥\_\_\_\_\_¥a\_[-`W  
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+HWI-EAS443:3:11:594:1244#0/1  
`a`\_`aa`^`a`T`^^a]^`^¥a]\_\_a^Z¥^¥\_¥Wa[[B  
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+HWI-EAS443:3:13:114:1167#0/1  
aaa`a¥^aa`^U\_[U^^¥]Z^^a`\_`^`¥^]Z[^`^ZV¥¥W  
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aaaaaaaa\_\_^\_\_a`^`\_Y^`^\_W`WW^`Y^`¥¥¥W¥W  
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+HWI-EAS443:3:17:849:1770#0/1  
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+HWI-EAS443:3:18:1039:1590#0/1  
\_`baaa`aa`a`a\_\_aUa\_a\_\_aa]¥¥Sa`\_`\_aX[GW`H  
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+HWI-EAS443:3:18:1147:1965#0/1  
aa\_\_^`\_aaS\_\_aa\_Z]\_`¥LLNaHQX[RP[]\_BBBBBBBB  
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+HWI-EAS443:3:18:786:216#0/1  
abaabbb\_a`abbaaaaa\_a`a¥¥^`\_`¥V¥¥^^S\_`^¥\_¥

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+HWI-EAS443:3:19:1177:1785#0/1  
a`aaaaaaaa]`\_a`a`aa`^¥[ ]^\_\_\_\_]\_^XU^Y]  
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CACCAAACGATCATATGAACAAATGGAGACTGATGGGGAG  
+HWI-EAS443:3:19:674:739#0/1  
¥RW^^ZZ\_X[[ ]a^\_\_]\_UQR\_]Z\_VU¥P`a\_Y\_¥\_^PB  
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GCTCCCCATCAGTCTCCATTTGTTTCATATGATCGTTTGGT  
+HWI-EAS443:3:19:719:1652#0/1  
``aaa`]a\_\_`aZ^a`a`\_`\_UU\_\_```\_\_]]U\_X`\_]RX  
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CGATCATATGAACAAATGGAGACTGATGGGGAGCGCCAGG  
+HWI-EAS443:3:21:336:377#0/1  
aba\_a\_ab[Z`aaa\_\_a`a`a\_]``ZZa^`\_`a\_\_^\_]`X  
@HWI-EAS443:3:21:412:1515#0/1  
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+HWI-EAS443:3:21:412:1515#0/1  
^\_K\_ab`X`\_]UU]\_\_\_\_¥Z[V¥a``]XP^\_¥XD¥aMFD  
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+HWI-EAS443:3:21:878:1193#0/1  
a\_```\_a`W¥[`a\_^\_ZWU\_\_ZY\_\_`UZWWXYUX[UX\_X  
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+HWI-EAS443:3:22:772:1055#0/1  
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+HWI-EAS443:3:22:893:1565#0/1  
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+HWI-EAS443:3:23:1482:1462#0/1  
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+HWI-EAS443:3:24:1015:970#0/1  
^]`¥P^a^a\_aa`XX^`Z[Z]Uaa\_]^\_R\_¥^a```Z^YQ  
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+HWI-EAS443:3:24:254:1092#0/1  
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+HWI-EAS443:3:25:552:820#0/1  
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+HWI-EAS443:3:63:1234:1270#0/1  
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aa`¥GMUwb¥aUXUL¥MZZNPR[YLZXaa[¥S]ZQ[^¥MZ  
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GAGACTGATGGGGAGCGCCAGGATGCCACAGAAATCAGAG  
+HWI-EAS443:3:67:1209:1130#0/1  
^\_`aaababbaaaaaaa]WV]WYa\_\_a`aa[]¥`^\_`]  
@HWI-EAS443:3:67:534:2034#0/1  
TCTGATTTCTGTGGCATCCTGGCGCTCCCCATCAGTCTCC  
+HWI-EAS443:3:67:534:2034#0/1  
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@HWI-EAS443:3:69:229:437#0/1  
TGTGGCATCCTGGCGCTCCCCATCAGTCTCCATTTGTTCA  
+HWI-EAS443:3:69:229:437#0/1  
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@HWI-EAS443:3:69:936:1023#0/1  
AAACGATCATATGAACAAATGGAGACTGATGGGGAGCGCC  
+HWI-EAS443:3:69:936:1023#0/1  
a\_\_`ba`\_\_`X^]a`]W\_aa`[^^^aa^a``\_\_\_\_\_ZZ

@HWI-EAS443:3:6:1561:147#0/1  
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+HWI-EAS443:3:6:1561:147#0/1  
\_\_a\_bba\_ba]a``a^a^`a`aZ[\_0a^\_aa\_Y\_¥Xa\_\_  
@HWI-EAS443:3:6:189:643#0/1  
CTCAAGGCACCAAACGATCATATGAACAAATGGAGACTGA  
+HWI-EAS443:3:6:189:643#0/1  
ababbbabaPZS\_]a\_X\_\_aaaaZ`H\_W]aa¥[\_LSa\_\_  
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+HWI-EAS443:3:70:1025:77#0/1  
ab^\_¥X`baU``aababaa`a\_a``VPV\_a^X¥RVHZa`^  
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+HWI-EAS443:3:70:1501:1918#0/1  
a\_¥`^a^`Waa¥^`^`bb]abaa\_baaaa`^aaa`a``M  
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ATGGGGAGCGCCAGGATGCCACAGAAATCAGAGCATCTGT  
+HWI-EAS443:3:70:681:1111#0/1  
ab`\_b`\_`babaaaa^aaaaabaaaaabaaaaaa``Y  
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+HWI-EAS443:3:71:248:284#0/1  
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CATCAGTCTCCATTTGTTTCATATGATCGTTTGGTGCCTTG  
+HWI-EAS443:3:72:1463:535#0/1  
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+HWI-EAS443:3:72:358:416#0/1  
U`TWOUa¥Z¥I\_^[TT\_\_[X\_X¥UaTUaab\_I¥`VYROOB  
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+HWI-EAS443:3:73:1737:646#0/1  
a¥`¥bUbaa[baZ\_b]ab\_`Za`])`a`])`^^^YPWZFQQJ  
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^ab\_^\_[^\_\_¥Z^`]X`\_aa\_`ab`])\_\_aaa^]\_ZYR]Z  
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+HWI-EAS443:3:73:532:1744#0/1  
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a``]Y\_aaa^Z]Va`ZXZ`aaa^a\_`^¥^^TY[UaY\_`[UN  
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+HWI-EAS443:3:74:97:730#0/1  
aaa\_a\_b\_¥[Z[Z[UZ¥W¥WZVU¥¥¥^WY\_¥W^WSWUWTV  
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+HWI-EAS443:3:76:1365:1417#0/1  
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+HWI-EAS443:3:76:286:1120#0/1  
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+HWI-EAS443:3:76:470:2036#0/1  
^¥\_`^`]b\_W\_[^]a[]^\_[ZQ¥`¥^¥X^XaWV`\_[Z\_\_W  
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+HWI-EAS443:3:76:607:1746#0/1  
aaaa\_ba`aabab¥VZ`\_aaaa\_\_[\_¥a[W^^a\_¥XTQN  
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+HWI-EAS443:3:76:771:1215#0/1  
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`ZFN`\_[TL]PR¥W]Ya[U]LY\_¥Q\_[TL]T\_`Y^W[NU  
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aa\_a^a`ba`aT[\_a[\_aaVZa\_\_WNU^\_^HUWTZTQW]  
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ATGGGGAGCGCCAGGATGCCACAGAAATCAGAGCATCTGT  
+HWI-EAS443:3:78:469:673#0/1  
aa\_aa\_P\_\_aaa`]a\_\_W`a\_a]aXVY]\_``\_a``]¥XK  
@HWI-EAS443:3:79:1019:188#0/1  
TGATGGGGAGCGCCAGGATGCCACAGAAATCAGAGCATCT  
+HWI-EAS443:3:79:1019:188#0/1  
ab`aaaa`a\_`¥^^`\_`^¥¥¥¥¥¥¥aa¥¥\_¥Q¥]Y¥Q^WTW  
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+HWI-EAS443:3:79:524:677#0/1  
Z\_bbb`baaa\_bbbabbbbaabbabb`\_abbabab` `bab  
@HWI-EAS443:3:80:1204:663#0/1  
CCCCATCAGTCTCCATTTGTTTCATATGATCGTTTGGTGCC  
+HWI-EAS443:3:80:1204:663#0/1  
a`aa]N\_]ZUZY¥]P¥WKZNS[ZVZ[YJYTVU^PX^NYRU  
@HWI-EAS443:3:80:222:926#0/1  
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+HWI-EAS443:3:80:222:926#0/1  
a`¥R`^a]¥Ya^\_`^`^]X¥aa¥^¥¥UU[¥TT[UU`YU^U  
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ATGGGGAGCGCCAGGATGCCACAGAAATCAGAGCATCTGT  
+HWI-EAS443:3:81:1158:1523#0/1  
abaZ\_aab^`\_a]^aa\_`[`b]aa`\_`a¥`[\_`a\_`Y¥^aV  
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CCCCATCAGTCTCCATTTGTTTCATATGATCGTTTGGTGCC  
+HWI-EAS443:3:82:1112:1092#0/1  
`a^aabbaabbba^abbbbaa\_bbabbaab` `bba¥[``]  
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+HWI-EAS443:3:82:542:293#0/1  
a^aaaaa`^`^a^^[a^[\_`\_]\_XY^Y\_\_Y[X\_YU^S¥Z  
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+HWI-EAS443:3:83:710:270#0/1  
aaaaaaaa\_aab^^Zaaa`\_aa\_\_\_\_\_a]¥\_` `Y\_\_¥\_¥W  
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`¥`\_YJ^Za¥]P\_bb]`a]WU^aa`\_]UUaWGXYSa[¥VW  
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+HWI-EAS443:3:86:1157:1579#0/1  
[U^` [ [WaXaV`Y[ `VV¥ZRbVZ\_\_b[bb`bab`RQR¥^  
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TGATGGGGAGCGCCAGGATGCCACAGAAATCAGAGCATCT  
+HWI-EAS443:3:86:159:427#0/1  
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+HWI-EAS443:3:86:192:364#0/1  
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+HWI-EAS443:3:87:469:162#0/1  
[``^`a]Y[T[^U¥`\_\_\_\_\_][`\_^\_Y]a^^[\_W¥\_\_ZW  
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\_\_^G¥Z]]T^\_^`¥PUP^UHRH`^XTOKJV]Z`ZVVYVBB  
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+HWI-EAS443:3:88:904:366#0/1  
a]````a¥a]a[^`\_¥^Z^^`[a[X^\_`YWXU¥YR[TU[  
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+HWI-EAS443:3:91:463:671#0/1  
`¥]]]U\_W¥aaa\_aa\_aa[[^aZ``Za`Y`^a`aQ\_^^V¥  
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+HWI-EAS443:3:91:555:1049#0/1  
\_`aa`a`[`aa`[¥^a\_Q`]^`\_X¥aZ^Xa¥^\_¥^¥]]¥  
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+HWI-EAS443:3:92:1489:2032#0/1  
a``bbaaaa]a\_Saaaa]aa]aZbaa`a`\_a`]\_¥a]¥\_`  
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+HWI-EAS443:3:92:1587:740#0/1  
aba[]baabaaaa[bb^aaa\_a\_ba\_]¥aaa^aaV\_]Qa\_  
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+HWI-EAS443:3:92:460:1043#0/1  
a\_bababaa[aaaa`a\_abab¥baabaaaa\_aaaaa]¥  
@HWI-EAS443:3:92:543:182#0/1  
CTGATGGGGAGCGCCAGGATGCCACAGAAATCAGAGCATC  
+HWI-EAS443:3:92:543:182#0/1  
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@HWI-EAS443:3:92:892:1335#0/1  
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aaa^`a]`a``aa`a``]\_\_\_\_\_^`^^\_\_^^\_]Y\_]`]]  
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`¥`a`Z`ab`¥[b`^bbaaa`^`aaaRb^aa^¥``[`]RY  
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`N```a]¥aa\_^Z`\_^]U^Z]\_\_U^RYT¥^^\_UYZBBB  
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aa`¥Z\_a\_ab^Taab`abba]aaZaa`^`\_a][a]U[¥aa  
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+HWI-EAS443:3:4:1562:1565#0/1  
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+HWI-EAS443:3:21:996:1008#0/1  
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aU]WX[R\_`\_aYa\_\_ZX¥^\_PFZ¥^\_W^\_\_]\_PS\_Q¥QW¥  
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+HWI-EAS443:3:85:1230:125#0/1  
aa\_a`\_a^ba\_a\_\_X\_WX^^`aa`X\_a^^Z^a`W`\_XZ  
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+HWI-EAS443:3:29:1779:1523#0/1  
aa¥aa^\_G[```¥T]\_^W\_]¥\_W`Y]^Z\_a\_¥\_^^]`R^Z  
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+HWI-EAS443:3:61:906:1903#0/1  
X\_V]R^a\_a¥^E[UT¥\_\_\_ZO\_MRRTZHZGVPYVRSWUY  
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+HWI-EAS443:3:32:1323:1212#0/1  
a`\_]`^bbbbaZDZ`¥`X`aaaa]aabXa`aYa]b]a]  
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+HWI-EAS443:3:5:837:1146#0/1  
aa`a^aa`\_a\_\_`ZW^^\_]\_\_a^a¥]a`\_`^\_^[^`\_\_  
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aa\_`aaaa\_a]\_a]W]\_b`^`\_[Xa¥W\_\_``\_]\_U`Z`Wa  
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GATTGATGCCAGGGTCTGACTTCGAGTCTGGACGGGTCAAG  
+HWI-EAS443:3:87:421:1350#0/1  
\_SUaU\_aVZ`TG^WJW^XV¥SPYU[GR¥Z`aZVYFOFSV¥  
@HWI-EAS443:3:36:1337:941#0/1  
AAGATGCAGAGAGAGGCAAGTTAAAAAGAAGAGCCTGAAC  
+HWI-EAS443:3:36:1337:941#0/1  
aaaa`bbabaaaa\_`aaa`^Yaa\_`\_a[\_aa^\_Z\_\_a]^`  
@HWI-EAS443:3:33:932:619#0/1  
CAAAATGNCCACCGTCAACATCCACAGCACTCTGCTGTTC  
+HWI-EAS443:3:33:932:619#0/1  
aa^\_\_\_\_]D[aaa`\_`\_`\_Zaaa`aaaZ^aa\_TW\_W`^V^W  
@HWI-EAS443:3:64:912:533#0/1  
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+HWI-EAS443:3:64:912:533#0/1  
`]]bbbbb\_aa¥N[^\_a¥[[\_aaa\_V¥[Y¥`a`a`\_] [[a^  
@HWI-EAS443:3:89:1131:30#0/1  
GACAAAATGACCACCGTCAACATCCACAGCACTCTGCTGT  
+HWI-EAS443:3:89:1131:30#0/1  
a¥¥[\_]\_`^`aU¥^MWa[\_^¥Taa\_VTT\_\_^\_SYX\_\_XTZU  
@HWI-EAS443:3:31:578:1529#0/1  
AAATGATCATCGTCAACATCCACAGCACTCTGCTGTTCCT  
+HWI-EAS443:3:31:578:1529#0/1  
aa^VULSSXX`TT\_]V¥`PX^ZUXYXZXNYUSVSVXXXXYZ  
@HWI-EAS443:3:86:711:1068#0/1  
CAGGCACTCCTCCGTAGAAGGCCCTTTTTCAAGCCGTA  
+HWI-EAS443:3:86:711:1068#0/1  
]TV\_VG[¥\_W[ZNPYK^QTZ^XTQ^BBBBBBBBBBBBBBB  
@HWI-EAS443:3:94:1346:111#0/1  
AGCTTTTGGTCTAGTGTGTGCCACTTGTGAACAGATTGCT  
+HWI-EAS443:3:94:1346:111#0/1  
aaabbbba`\_a\_aaa\_aaa\_a\_Gb]aaa^bZ^J^a][`\_T\_  
@HWI-EAS443:3:17:1338:1523#0/1  
GGCATTCCCTCCGTAGAAGGCCCTTTTTCAAACCGTATT  
+HWI-EAS443:3:17:1338:1523#0/1  
aaa^]¥a¥^^`]UMU]``¥^T¥\_[VU]¥^N\_^ZVR^TX[\_  
@HWI-EAS443:3:67:642:1781#0/1  
CCCCATTCCCATTAGTGCATTTTGGACAAAGCGTCTACG  
+HWI-EAS443:3:67:642:1781#0/1  
a\_]\_aaaaa`\_`\_`\_¥PFW^Z\_\_\_\_aRDX]``aXVSNY[\_BB  
@HWI-EAS443:3:92:263:2033#0/1  
ATTCAGGGCATTTTTGGACAAAGCGTCTACGCTGGAGTCCT  
+HWI-EAS443:3:92:263:2033#0/1  
T]\_T]QFP^WWW]O^MO]Ta¥^aaVXZ\_0^TSLG^GVYBB  
@HWI-EAS443:3:30:542:1592#0/1  
CCCATTCCCATTAGGCGATTTTGGACAAAGCGTCTACGC

+HWI-EAS443:3:30:542:1592#0/1  
abbba`bbba]I]]Y¥aaa^`¥aaa]`S`]UW¥^¥SV  
@HWI-EAS443:3:19:643:431#0/1  
AGGGCGGATGGGAGTGCAGATGCAGCGATTCAAGTGATCC  
+HWI-EAS443:3:19:643:431#0/1  
abbbabbXbbbb^aU`aabaaa`Xa]b`\_`a`adW`a¥`^  
@HWI-EAS443:3:44:30:208#0/1  
GCAGGCCTACCAGAAGCGGATGGGAGTGCAGATGCAGCGA  
+HWI-EAS443:3:44:30:208#0/1  
aa`]a^aa\_a`\_`X\_\_[^DR[\_^aR^HU^PVQWXQQVKXR  
@HWI-EAS443:3:8:1774:101#0/1  
CAAAATGACCATTGTCAACATCCACAGTACTCTGCTGTTC  
+HWI-EAS443:3:8:1774:101#0/1  
`M[`baNYZ\_]D[[LU\_X¥^^OWGI¥OZX^OX]WXUBBB  
@HWI-EAS443:3:11:1005:186#0/1  
CAAAATGACCATCGTCAACATCCACAGCACTCTGCTGCTC  
+HWI-EAS443:3:11:1005:186#0/1  
R`\_\_Xa`aa[```\_¥\_S[¥`[[Y¥bba[\_0`b]a^EXF  
@HWI-EAS443:3:97:1659:797#0/1  
GGTCTCCATTTGTTTCATATGATCGTTTTGGTGCCTTGAGAC  
+HWI-EAS443:3:97:1659:797#0/1  
MWb\_\_YZ]bab`ab\_bbU`[[a\_ba[aI\_a][aabYJ¥\_H  
@HWI-EAS443:3:67:728:510#0/1  
ATGCCCATTCCTGATCGGCTCCGCCGGGATCAAAAGTC  
+HWI-EAS443:3:67:728:510#0/1  
WV`\_`\_`a`\_]\_¥V]\_VXa[]^`]V[YYRG[]¥¥Z\_STZZ^  
@HWI-EAS443:3:13:225:497#0/1  
CACGCTCGGGTTTCGTTGCCTTTTCGTCGAGAGCTCAGAT  
+HWI-EAS443:3:13:225:497#0/1  
¥R`[I]\_TXa0]UV`¥UaTZ¥]¥`aVW¥TX\_^ZVZ^^XXP  
@HWI-EAS443:3:15:238:487#0/1  
CACCGAACTTCTCCAGCCTTGAAAACCTTTAGAGTCTATGT  
+HWI-EAS443:3:15:238:487#0/1  
`bbba``aaaaabbaaaaaa`aa``aa`aa]\_F]aa`aZ  
@HWI-EAS443:3:16:1531:183#0/1  
CGGTGGGTTCACTTTCAAAGGACAAGCGGATTATCAGTC  
+HWI-EAS443:3:16:1531:183#0/1  
\_\_W[¥``OQUQa¥^aV`]^`¥]YS`^]Y\_UVVFYTQT^UV  
@HWI-EAS443:3:44:419:1573#0/1  
GCCACATACCAGAGAACAAGAGCGCTTGTTTCGCACCGGAA  
+HWI-EAS443:3:44:419:1573#0/1  
a`^[^baXGR\_]a``a^W]`a`a\_\_^]RZaa^¥¥`\_\_^^  
@HWI-EAS443:3:23:775:721#0/1  
CTAATGGTACCGAGATATGCATTTCGAATGGAAAGAAATG  
+HWI-EAS443:3:23:775:721#0/1  
aaa\_\_aa]baabaaaabaaaaa`\_`a```[`a`\_`a\_\_X  
@HWI-EAS443:3:46:1678:1597#0/1  
CAAGAAGTTCAAGACGAAATAGCAACAAGACCCAAAGCG  
+HWI-EAS443:3:46:1678:1597#0/1  
a^VbMYbaaa[\_`IabXUaZ`\_[UU`Ga^`XZ`XSTYVD¥

@HWI-EAS443:3:26:1203:426#0/1  
GGAAATTCCAATTGTTAGCCAATTGATGCCATCATGACAA  
+HWI-EAS443:3:26:1203:426#0/1  
JZZab`ZW\_`¥`\_¥WW\_XVV\_`Wa\_`^ZK\_``]Y`a[UQ¥  
@HWI-EAS443:3:9:1756:1873#0/1  
ATGCAGCAGAGTGGCATGCCATCCACACCAATTGGCTTTT  
+HWI-EAS443:3:9:1756:1873#0/1  
]`ba^a`aa^\_J0a^XXVUGTTXX\_X\_KQ\_`^¥¥SSUH^I\_  
@HWI-EAS443:3:77:1601:426#0/1  
GAGCTCTTCAATGGTGAACAGATCTTCATGATCTCAGAG  
+HWI-EAS443:3:77:1601:426#0/1  
]a¥]`^aa]`b\_RXU^abb\_\_bbb]a\_`\_``aaaaRaV\_`  
@HWI-EAS443:3:38:1093:1839#0/1  
GTTTTTTTGAACAAATTACTTGTCAATGGTAAATGGCAAC  
+HWI-EAS443:3:38:1093:1839#0/1  
a]\_aa`aaa`aa`\_\_a`a\_\_`Z\_\_\_a^¥XGUOXSYS^\_U  
@HWI-EAS443:3:99:1439:235#0/1  
AATCCCAATTACCTCATGGCTTGAAGCAGGGGCTAGGAG  
+HWI-EAS443:3:99:1439:235#0/1  
aVb\_YL\_\_baaW^U^\_ba^[]a[RGX`UZTWGG\_WWB  
@HWI-EAS443:3:86:1349:663#0/1  
CTCATGGCTTGAAGCAGGTGCTAGGAGAGCTACAGGACA  
+HWI-EAS443:3:86:1349:663#0/1  
abba`\_b]b`¥`WaTh\_`bVba\_W[FUaUaQ\_]ab\_X[`  
@HWI-EAS443:3:39:771:828#0/1  
CTGGCGACAGTTGACTAGATCGCCAAAATTTGGTAAATCC  
+HWI-EAS443:3:39:771:828#0/1  
`ababb¥WQ\_]a]XFVLRZ^^[[XOFQZNHIFQXXV]¥WV  
@HWI-EAS443:3:12:483:531#0/1  
AGGCACTCCTCGATTGCTTCATATAGCCCCCAAGATCAA  
+HWI-EAS443:3:12:483:531#0/1  
aa`aaMQ\_`\_UZ^QW`\_XX]^a^\_VZ`US^X`¥`^SZ¥B  
@HWI-EAS443:3:27:112:1351#0/1  
CAACTTGAGGGTTTTTCGGCTAAATCGAGAAAATTGCTTC  
+HWI-EAS443:3:27:112:1351#0/1  
a`a`a`a`a`a`aW`\_aa`]a¥F]^`^ZY\_aa``a\_^¥`\_^\_  
@HWI-EAS443:3:53:1310:295#0/1  
GAACAATGAGAAGCAATTTTCTCGATTTAGCCGAAAACCC  
+HWI-EAS443:3:53:1310:295#0/1  
aaaaaaaaabaa`aaaaabaaaaaaaa]bbaaa\_Zaa`a`]S  
@HWI-EAS443:3:54:1679:1617#0/1  
GTAAAATGGAATCAACAAGGATTTACCAGATTTTGGCGA  
+HWI-EAS443:3:54:1679:1617#0/1  
aaa^aaaaaaaa\_a\_`\_¥a\_a`^`^`\_]X]^Z``\_\_\_\_^`  
@HWI-EAS443:3:35:263:565#0/1  
AATAGATGGGGTAACGCTGGAATCAACACGATTTACCAG  
+HWI-EAS443:3:35:263:565#0/1  
YP\_Waa]aaZ^W`]DZ]^aa]^Y`¥`\_^GR^YWETa\_PW[  
@HWI-EAS443:3:35:1375:774#0/1  
AAGAAATAGATGGGGTAACGCTGGAATCAACAAGGATTTA

+HWI-EAS443:3:35:1375:774#0/1  
aaa`a`aab`abaa\_`a\_`¥¥^`^^ZZ^UT¥]]^^SWZ]X]  
@HWI-EAS443:3:40:786:361#0/1  
CAATGCCAAGGAGGCACAGGATGTGATTATGGAAGGTGGT  
+HWI-EAS443:3:40:786:361#0/1  
X`X[b]aba]babbbb]`^aSa¥GYZK[ZO\_\_RW[BBBBB  
@HWI-EAS443:3:73:1568:1877#0/1  
CAATGCCAAGGAGGCACAGGATGTGATTATGGAAGGTGGT  
+HWI-EAS443:3:73:1568:1877#0/1  
ab`ababaaa]`a`aaaa\_aaaS```\_\_^`\_`aYBBBBBB  
@HWI-EAS443:3:91:1378:1189#0/1  
GACCCTGGCCATGCAGATCTCAATGCCAAGGAGGGACAGG  
+HWI-EAS443:3:91:1378:1189#0/1  
````]]]`aZ^`^Z^Sa^UX`^^`\_`UTU]¥^V^¥GWSW^¥  
@HWI-EAS443:3:84:133:1859#0/1
ATCACATCCTGTGCCTCCTTGGCATTGAGATCTGCACGGC
+HWI-EAS443:3:84:133:1859#0/1
a`a_`baa_[_XZU¥Za¥ZLMVa^UHU_QYWVSN¥MDMW]
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AGTTGATACAAACCCTGGCCATGCAGATCTCAATACCAAG
+HWI-EAS443:3:100:692:516#0/1
`YWabbaababaaYaa]aa__[_`abU_Qa^`^^JS¥]_a
@HWI-EAS443:3:13:490:332#0/1
GGAGAGTTGATACCAACCCTGGCCATGCAGATCTCAATGC
+HWI-EAS443:3:13:490:332#0/1
a`b`aVaaa``_V[V___Z___]_¥¥¥[¥_ZUWW^^VWSX
@HWI-EAS443:3:14:761:707#0/1
GAGGAGAGTTGGTACAAACCCTGGCCATGCAGATCTCAAT
+HWI-EAS443:3:14:761:707#0/1
a`ba_a_a_``_Ua¥`^a^[¥^^VXVS^¥U¥_SSUWS_SU
@HWI-EAS443:3:27:1494:453#0/1
TTGGTATTGAGATCTGCATGGCCAGGGTTTGTATCAACTC
+HWI-EAS443:3:27:1494:453#0/1
aaaa]_aaaaba`_]`a]^`^[_¥_a`_Z`__Y^_XUYR[W
@HWI-EAS443:3:27:575:1790#0/1
GAGGAGAGTTGATACAAACCCTGGCCATGCAGATCACAAT
+HWI-EAS443:3:27:575:1790#0/1
a`aa`baaaaa_babaa`adWN^Z^UZN¥^_UU¥a```aS
@HWI-EAS443:3:39:221:128#0/1
GCAGATCTCAATGCCAAGGAGGCACAGGATGGGATTATGG
+HWI-EAS443:3:39:221:128#0/1
a_S_Y^^U^_¥^_AY^V]]¥Y]YXYX]^YV^GYGYUVYXX
@HWI-EAS443:3:76:502:1916#0/1
TGCAGATCTCAATGCCAAGGAGGCACAGGATGTGGTTATG
+HWI-EAS443:3:76:502:1916#0/1
Z_]S^[ab]^FW`^ZL[_ZV¥]]^ZN¥]ZR^BBBBBBBBB
@HWI-EAS443:3:85:1494:1066#0/1
TCCTGTACCTCCTTGGCATTGAGATCTGCATGGCCAGGGT
+HWI-EAS443:3:85:1494:1066#0/1
XaX[[X[a_aaa_bb_ZabbVZ]bb`ab[Tab[[a`bb`S

@HWI-EAS443:3:93:1187:1614#0/1
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+HWI-EAS443:3:93:1187:1614#0/1
a_``a`____a^_^]a`a_¥_]a]]^aGZRU]]B
@HWI-EAS443:3:8:90:1911#0/1
TGGCCATGCAGATCTCAATGNCAAGGAGGCACAGGATGTG
+HWI-EAS443:3:8:90:1911#0/1
aaaa`]^aa]]UYa`aa]¥VD¥[]_`X_]aaZ]XSU_RB
@HWI-EAS443:3:22:89:1989#0/1
CGGAGAGTTGATACAAACCCTGGCCATGCAGATCTCAATG
+HWI-EAS443:3:22:89:1989#0/1
a^0)`[WMyaaT]R^^ZORPZR_UKMY]YV[ZVBBBBBBB
@HWI-EAS443:3:38:1276:1457#0/1
ATACAAACCCTGGCCATGCAGATCTCAATGCCAAGGAGGA
+HWI-EAS443:3:38:1276:1457#0/1
`Ya]ba]_[a^M[O[]QBBBBBBBBBBBBBBBBBBBBB
@HWI-EAS443:3:92:1161:1213#0/1
CGGCCATGCAGATCTCAATGCCAAGGAGGCACAGGATGTG
+HWI-EAS443:3:92:1161:1213#0/1
`____`b`_]a_X¥`a[_]Z``^`b_bba`P¥aaIa`Z¥
@HWI-EAS443:3:93:1112:1765#0/1
NGCCATGCAGATCTCAATGCCAAGGAGGCACAGGATGTGA
+HWI-EAS443:3:93:1112:1765#0/1
DOWWYUYUYUYYWWWYWYVWUWWWYUWYYNWYWWWB
@HWI-EAS443:3:11:239:698#0/1
GAGAGTTGATACAAACCCTGGCCATGCAGATCTCAATGCC
+HWI-EAS443:3:11:239:698#0/1
a```_`a`a`_`a`Y`a`_`_`_UX^[YRWZ¥W]KSZSR
@HWI-EAS443:3:13:1159:261#0/1
CCTTGGCATTGAGATCTGCATGGCCAGGGTTTGTATCAAC
+HWI-EAS443:3:13:1159:261#0/1
[]UU¥`U[a[ba_aT_`b]``]ZRXZbaaWa^a_a^PXU¥
@HWI-EAS443:3:13:1477:1245#0/1
TGCAGATCTCAATGCCAAGGAGGCACAGGATGTGATTATG
+HWI-EAS443:3:13:1477:1245#0/1
Waab_bbbbbbbbbbbbbbbabaa_baabbbababbbb^
@HWI-EAS443:3:13:731:1147#0/1
GGAGAGTTGATACAAACCCTGGCCATGCAGATCTCAATGC
+HWI-EAS443:3:13:731:1147#0/1
aaZaZa_aa`a`_`a`Va_]P¥[__YZ____SUQZ¥]¥UWW
@HWI-EAS443:3:14:1086:703#0/1
GCCATGCAGATCTCAATGCCAAGGAGGCACAGGATGTGAT
+HWI-EAS443:3:14:1086:703#0/1
aaa]aa`[`aa_a`aaa`U^_ba^a__^_^aa¥^aQ`S¥
@HWI-EAS443:3:15:56:603#0/1
AAACAACCTCCATAATCACATCCTGTGCCTCCTTGGCATT
+HWI-EAS443:3:15:56:603#0/1
U__[_[¥Z]aa¥R[PUXXWT¥]_¥__U``Z_^[FSY`ZZ¥V
@HWI-EAS443:3:16:751:1077#0/1
AACAACCTCCATAATCACATCCTGTGCCTCCTTGGCATTG

+HWI-EAS443:3:16:751:1077#0/1
aa`_`X`a_a`_a_`_]`_`_]`^`^^`_`Y^VU]X]`^^]`_`
@HWI-EAS443:3:17:1182:972#0/1
TGCAGATCTCAATGCCAAGGAGGCACAGGATGTGATTATG
+HWI-EAS443:3:17:1182:972#0/1
`a`UUKaYWaWWIS¥ZZZaa`baaaPI^VTV[SaH^QXBB
@HWI-EAS443:3:17:855:552#0/1
TGCAGATCTCAATGCCAAGGAGGCACAGGATGTGATTATG
+HWI-EAS443:3:17:855:552#0/1
Z__[¥Y[___[T`_`_]¥__¥`_`_[WZ__XW^W`FUUPRZ
@HWI-EAS443:3:18:348:889#0/1
CATAATCACATCCTGTGCCTCCTTGGCATTGAGATCTGCA
+HWI-EAS443:3:18:348:889#0/1
aa`_`]ab_aaa`a__T`_`a_^`_`^ZWZ`^^`_Z¥^_Z__[
@HWI-EAS443:3:22:1003:459#0/1
ACATCCTGTGCCTCCTTGGCATTGAGATCTGCATGGCCAG
+HWI-EAS443:3:22:1003:459#0/1
a_a`¥`_`^Xa`_aa__abaY__aa_a^`[a`_VZ]`¥_¥a
@HWI-EAS443:3:22:1106:1983#0/1
CCTGTGCCTCCTTGGCATTGAGATCTGCATGGCCAGGGTT
+HWI-EAS443:3:22:1106:1983#0/1
]bab[bbb_ab`aaaaab`aba^`[X_a_a`]_a`_`¥`
@HWI-EAS443:3:22:765:848#0/1
CTCCTTGGCATTGAGATCTGCATGGCCAGGGTTTGTATCA
+HWI-EAS443:3:22:765:848#0/1
aaaaaa`_a¥aaa^aaa`aaaa_a]`a`_`]`aX`]]^
@HWI-EAS443:3:23:1748:936#0/1
CACATCCTGTGCCTCCTTGGCATTGAGATCTGCATGGCCA
+HWI-EAS443:3:23:1748:936#0/1
`baabbbbaab_bb_ababb_abbbaa_a`aa`_`bb_¥a
@HWI-EAS443:3:27:1048:541#0/1
ACAACCTCCATAATCACATCCTGTGCCTCCTTGGCATTGA
+HWI-EAS443:3:27:1048:541#0/1
^O^[YXSSX`_`[W]U¥_RNNSX`M`QR[P_[NVTQSX[^T
@HWI-EAS443:3:28:528:1370#0/1
ACAACCTCCATAATCACATCCTGTGCCTCCTTGGCATTGA
+HWI-EAS443:3:28:528:1370#0/1
aa]I[ZP¥a`aaaa¥aa`a`ZZYT^`_`HY¥[___`_`U]
@HWI-EAS443:3:29:332:843#0/1
ATAATCACATCCTGTGCCTCCTTGGCATTGAGATCTGCAT
+HWI-EAS443:3:29:332:843#0/1
`aaa`^`_N_`_`_`¥aa`]a_W_^Z`^^]¥Y`_Z_W¥¥¥U
@HWI-EAS443:3:30:1771:1292#0/1
CATGCAGATCTCAATGCCAAGGAGGCACAGGATGTGATTA
+HWI-EAS443:3:30:1771:1292#0/1
aabb_bbbbababaab_babba_aaa`_aa`_a`U_R`^`_
@HWI-EAS443:3:31:512:150#0/1
ATCCTGTGCCTCCTTGGCATTGAGATCTGCATGGCCAGGG
+HWI-EAS443:3:31:512:150#0/1
`abaaa^baaaaa[[`]aaaa`aaa`_`^^`_`^¥W`^`^`_¥

@HWI-EAS443:3:32:1459:243#0/1
CTTGGCATTGAGATCTGCATGGCCAGGGTTTGTATCAACT
+HWI-EAS443:3:32:1459:243#0/1
abbbbbbbbabbbabb`abb`_`bbb]abbaabP`ab
@HWI-EAS443:3:32:931:683#0/1
GAGGAGAGTTGATACAAACCCTGGCCATGCAGATCTCAAT
+HWI-EAS443:3:32:931:683#0/1
J`YaQ^Ua]^_a¥`[_¥U_^_Z^Q[RR[UUTW_[VB
@HWI-EAS443:3:34:978:493#0/1
AGGAGAGTTGATACAAACCCTGGCCATGCAGATCTCAATG
+HWI-EAS443:3:34:978:493#0/1
`]J¥bab^Y_b`_aaaaX¥YY_]a]K_`ZUV^S_^^^U^
@HWI-EAS443:3:36:1310:272#0/1
AGTTGATACAAACCCTGGCCATGCAGATCTCAATGCCAAG
+HWI-EAS443:3:36:1310:272#0/1
abXb`^baa`a__aaZ_a`[YY^_U¥ZQ_Z_]VUS[`]V]
@HWI-EAS443:3:38:1260:626#0/1
ACATCCTGTGCCTCCTTGGCATTGAGATCTGCATGGCCAG
+HWI-EAS443:3:38:1260:626#0/1
_[a¥[^Z^H_Z]aVa]]Z]U^]¥a`_ZQZ`PPPRZ^^WRY
@HWI-EAS443:3:45:964:236#0/1
GGAGGAGAGTTGATACAAACCCTGGCCATGCAGATCTCAA
+HWI-EAS443:3:45:964:236#0/1
ab]a_Ubab¥aa`_a`aa[QZQ_`Z¥S`_¥[W__WW^V¥Z
@HWI-EAS443:3:47:289:981#0/1
ACATCCTGTGCCTCCTTGGCATTGAGATCTGCATGGCCAG
+HWI-EAS443:3:47:289:981#0/1
`a`_abbb``[^`UU¥[W^[_a]^``[aX`[a`]]W]a
@HWI-EAS443:3:4:159:26#0/1
TGGCCATGCAGATCTCAATGCCAAGGAGGCACAGGATGTG
+HWI-EAS443:3:4:159:26#0/1
abb`aZU`]R_¥VUZ_]RXa[UJQ^_W_¥ZST^^BBBBB
@HWI-EAS443:3:4:1740:204#0/1
ACCCTGGCCATGCAGATCTCAATGCCAAGGAGGCACAGGA
+HWI-EAS443:3:4:1740:204#0/1
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+HWI-EAS443:3:51:988:819#0/1
_a`WaaaW^_a¥T_R0babbbXbbYJaI]bV]b_`QX[[``
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+HWI-EAS443:3:55:950:366#0/1
ab_abaa_aaa`a^`[^a`_aa`_`_ab]a_U]N¥_Q`a
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+HWI-EAS443:3:56:1459:1297#0/1
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+HWI-EAS443:3:5:741:841#0/1
aaabb_bab_aaa`a¥^a_¥]¥]___W^Y_¥¥`Y]U_UBB
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]]]b`a¥¥__^aabaaa`b`baaa`a¥____a^¥a_aZaa
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+HWI-EAS443:3:64:1720:1675#0/1
abaaaaa____V)`aaa`a¥QVZ__VZZ_¥`¥_V¥____`_[
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+HWI-EAS443:3:83:747:670#0/1
aY`]ZP_]`^a`a`_a`_`^¥¥^X^^^)^¥^YYTYWWYU[¥
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+HWI-EAS443:3:84:1023:1417#0/1
aba`__aaaba]a`a`_a`_a`_a`_ba``aVa^__]_`
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+HWI-EAS443:3:88:1288:641#0/1
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+HWI-EAS443:3:91:293:1137#0/1
`aYQ^aa¥a¥`¥¥VYaVZ]]^Z[_`^RZ^_[[V[V`_`¥V
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__bb`V`b_bba[bb`aaUbbbab_a_babbb_bbb_a]D
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+HWI-EAS443:3:96:1204:1178#0/1
aa¥^Y_XWZ_]¥Z]WX¥_a`_]^ZX_G^]^^^Z¥aaa]_
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+HWI-EAS443:3:98:646:1497#0/1
^_¥WV[T_`[^WaW_] [U_`U^X_a_UZ]_XaUaZVHYSB
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aa` `UXX^QV]_^^_Z_^¥W[Z`]a_ZR¥]^a_TZY¥`]`
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+HWI-EAS443:3:98:1282:990#0/1
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+HWI-EAS443:3:59:1738:1096#0/1
aa` `aa` `aY_`a`F_`RT¥0¥X`¥]] [X`aG_RULT^BB
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+HWI-EAS443:3:59:1290:270#0/1
[[`^ [¥¥_bab^]^_`_b]R` `UKa_RX]^OL]TEM[OH
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+HWI-EAS443:3:43:615:1524#0/1
`YZ_` [SQ[[X_S^VRRX¥[T]VBBBBBBBBBBBBBBBB
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+HWI-EAS443:3:3:741:1226#0/1
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+HWI-EAS443:3:55:105:611#0/1
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_`b¥_a^^^_^^^a^_Za``]]aa¥R_a`[`SMVaTa`
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+HWI-EAS443:3:59:695:1759#0/1
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+HWI-EAS443:3:2:646:270#0/1
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+HWI-EAS443:3:95:820:606#0/1
¥``R]`_`aaW``Zab^XaZ¥X`[Y`_^XI`a]_FU^`_
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+HWI-EAS443:3:25:399:222#0/1
[`bb^abab``abbbbbbabbbbaababbb_a[D]babba
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+HWI-EAS443:3:13:1445:1293#0/1
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+HWI-EAS443:3:14:1653:214#0/1
aa`abba`^a`_^_aa]a``[a``^]¥X^^^][_Z`^X
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+HWI-EAS443:3:100:338:938#0/1
[a`a````aaa^^U[^]aa^aa`_Z[¥Z^aa`]¥SX^]B
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+HWI-EAS443:3:11:1074:1470#0/1
aa_]`¥]`````_aa_a]a_^__`¥_____]^`^^X_ZX`
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+HWI-EAS443:3:11:613:1421#0/1
aa[^aW[a`b_^_aa^aaba[^aaXb`__`_]a^^^_^_`
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+HWI-EAS443:3:13:1661:596#0/1
`baa¥`a^`aab^aRFZ_[`Ya_```b^_^_S`a`¥__W_
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``aaba^`aa]^a`aaaaa¥``a`]¥¥aa_]`a`]`ZOY
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_]a]XX^aa_OURY_aQVYa]`_Y^UY`_VDS_a¥Y]¥]]
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]^D¥^aa^aa`[^`XW`aa]_aa^V^aX]Za`aX_¥[ab`

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+HWI-EAS443:3:44:314:773#0/1
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+HWI-EAS443:3:49:1441:556#0/1
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aY`a`a_b^_X¥]Yaa^a__a`a_]__Y_W`_a`a`_`_`
@HWI-EAS443:3:78:1185:1881#0/1
TACTGATCCAAAATGGAAGGCTTTGTGCGACAATGCTTCA
+HWI-EAS443:3:78:1185:1881#0/1
``[`aab` `a[babaab`a]]Za`]`ZR¥]aa`¥b_^VT`
@HWI-EAS443:3:78:67:947#0/1
TACTGATCCAAAATGGAAGGCTTTGTGCGACAATGCTTCA
+HWI-EAS443:3:78:67:947#0/1
ababb`abbbbbaaaaa_a`ba` `a_aa`__aaaa`_`_`
@HWI-EAS443:3:79:1481:75#0/1
TACTGATCCAAAATGGAAGGCTTTGTGCGACAATGCTTCA
+HWI-EAS443:3:79:1481:75#0/1
[_N¥QQRbaZ] `b]baab¥]¥U¥b[¥aaSH]aa_P_MMV
@HWI-EAS443:3:81:209:1237#0/1
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+HWI-EAS443:3:81:209:1237#0/1
abba]_`bbabaaaa`a`__aaaaW`aa]_Z` `aa_]aa
@HWI-EAS443:3:85:481:153#0/1
TACTGATCCAAAATGGAAGGCTTTGTGCGACAATGCTTCA
+HWI-EAS443:3:85:481:153#0/1
aaa`aaaa`aaaa_a`ZV]]aa`aX_Ya_]`_`_`_]`^
@HWI-EAS443:3:86:1790:566#0/1
TACTGATCCAAAATGGAAGGCTTTGTGCGACAATGCTTCA
+HWI-EAS443:3:86:1790:566#0/1
]b`]ba_¥Y]bab^_V_aRJ]aaa_]_aWb^a` `__`ZS]
@HWI-EAS443:3:87:1044:1024#0/1
TACTGATCCAAAATGGAAGGCTTTGTGCGACAATGCTTCA
+HWI-EAS443:3:87:1044:1024#0/1
a_aa`_a`aa] `aaaa[`]a_`aW]M_^`_`_`_`^`_Za

@HWI-EAS443:3:92:1109:1480#0/1
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+HWI-EAS443:3:92:1109:1480#0/1
]b¥a^[_` `` ` _¥¥b_aXZb^ba]_Yb`aa_aa`a`aa[_
@HWI-EAS443:3:95:1143:1162#0/1
TACTGATCCAAAATGGAAGGCTTTGTGCGACAATGCTTCA
+HWI-EAS443:3:95:1143:1162#0/1
WZ_UaZ¥_S_[____` ` _¥_b[`U_b^^_¥YFY^¥¥`_N[¥
@HWI-EAS443:3:99:620:1054#0/1
TACTGATCCAAAATGGAAGGCTTTGTGCGACAATGCTTCA
+HWI-EAS443:3:99:620:1054#0/1
aaWZa^a¥aa`^aab`a_aa[a_X_[a_aa_aa^a` `a_a
@HWI-EAS443:3:69:1301:1515#0/1
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+HWI-EAS443:3:69:1301:1515#0/1
aYa[ab¥^_b`bbbaa`V`[`aba[DWaababbbb`baa`
@HWI-EAS443:3:21:1138:913#0/1
ACTGATCCAAAATGGAAGGCTTTGTGCGACAATGCTTCAA
+HWI-EAS443:3:21:1138:913#0/1
a]XaaZa` ` `]`ZW_a¥ZZ^` ` _]¥0¥[^^^`_XZZ^a¥
@HWI-EAS443:3:31:1441:1615#0/1
ACTGATCCAAAATGGAAGGCTTTGTGCGACAATGCTTCAA
+HWI-EAS443:3:31:1441:1615#0/1
aaaaaa` `aaaaaaaa`a^_aaa]a^a_]_` `aZ`^ [^^
@HWI-EAS443:3:33:1466:876#0/1
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+HWI-EAS443:3:33:1466:876#0/1
aaaa`baaaaaaaaa`a`a_aaaaYaWa^` ` _V`]^^T_]`
@HWI-EAS443:3:42:513:1339#0/1
ACTGATCCAAAATGGAAGGCTTTGTGCGACAATGCTTCAA
+HWI-EAS443:3:42:513:1339#0/1
aaVQ]Pba_¥[^YRIR^V¥]_^_0]`a]Z_]_^Y]]_]_`
@HWI-EAS443:3:48:472:1323#0/1
ACTGATCCAAAATGGAAGGCTTTGTGCGACAATGCTTCAA
+HWI-EAS443:3:48:472:1323#0/1
a¥baaabaaba`abaaaa`aaa`_a]`aaaa_]_`a__`
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+HWI-EAS443:3:50:1067:1421#0/1
a¥aa_` `X_`a`TN[aaTTTaaa¥SaYbZL_` `a0_YFVY
@HWI-EAS443:3:59:351:1806#0/1
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+HWI-EAS443:3:59:351:1806#0/1
`^¥0VZ_]_YY_QU^_RD[NVPZXZ[aV` `]Y]SWSU__Y
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+HWI-EAS443:3:66:696:586#0/1
]a¥_ZX]`XWWZWa¥ZXP¥TT_S[`a`_[YLWY]P]SXU
@HWI-EAS443:3:67:1369:1262#0/1
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+HWI-EAS443:3:67:1369:1262#0/1
a`aaaaaaa`a`aaa]`_`aa`_¥a``¥a`_a`_`^V`_`_`
@HWI-EAS443:3:69:53:2036#0/1
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+HWI-EAS443:3:69:53:2036#0/1
_aUT^¥`_Z¥LK_^`_[aZa`]^`PXWNV[^Z^]_]O_[N
@HWI-EAS443:3:6:454:1836#0/1
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+HWI-EAS443:3:6:454:1836#0/1
ab¥b]_baaaaZX]__aRZYV¥]YR`]^a^_]ZZ¥RQ¥¥_`
@HWI-EAS443:3:70:243:173#0/1
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+HWI-EAS443:3:70:243:173#0/1
aa`a``aa`a]`aa`_a`_`_`^`_]`_^`[V]]V^]]`[
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+HWI-EAS443:3:78:678:502#0/1
a^`b`aaa]a¥a_a`aaaZ^`a`_`_`^ZS`_]_____¥[____`
@HWI-EAS443:3:79:1073:90#0/1
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+HWI-EAS443:3:79:1073:90#0/1
]abbbbabab`abaaaba_aaa_Wb`a`_`_`^`_aa^¥¥U`a`
@HWI-EAS443:3:81:351:795#0/1
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+HWI-EAS443:3:81:351:795#0/1
aa]aaaaa^a^]Z`TR]`_`_`_`^`Sa_a`_X[¥`a^^`VU`
@HWI-EAS443:3:97:881:186#0/1
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+HWI-EAS443:3:97:881:186#0/1
a_abaaaaa`_`_`aa`^`[]`_]a`aa^`Z`W^`^^aU`^X`_`
@HWI-EAS443:3:98:1332:925#0/1
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+HWI-EAS443:3:98:1332:925#0/1
``ab_b__aaa`aaXaaVJabba^a```]¥a``a¥]^Ga^`
@HWI-EAS443:3:99:367:1081#0/1
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+HWI-EAS443:3:99:367:1081#0/1
a^Z__a`[_]0[_a`_`[^¥`_Y_ZY[[[NWZZ_X_^Q`_`
@HWI-EAS443:3:24:866:1889#0/1
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+HWI-EAS443:3:24:866:1889#0/1
IVa¥W[¥]``UY[^a`^aVZMI[KWa_]UK__aJONLWa`
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CTGATCCAAAATGGAAGGCTTTGTGCGACAATGCTTCAAT
+HWI-EAS443:3:28:1320:1203#0/1
W`_aaaaabbbba^```aaba`_]__Uabb_YZ`_]`_`^`
@HWI-EAS443:3:51:1015:314#0/1
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+HWI-EAS443:3:51:1015:314#0/1
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+HWI-EAS443:3:58:1122:259#0/1
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@HWI-EAS443:3:58:1629:674#0/1
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+HWI-EAS443:3:58:1629:674#0/1
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+HWI-EAS443:3:66:971:213#0/1
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@HWI-EAS443:3:73:1318:951#0/1
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+HWI-EAS443:3:73:1318:951#0/1
aaaabababaaaa`ba_a_abbb`b`aaabaab_aaaaa`
@HWI-EAS443:3:76:446:1210#0/1
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+HWI-EAS443:3:76:446:1210#0/1
ab`Tabbb``bbb`ababbbbbaababbba`ba`aaaa
@HWI-EAS443:3:78:582:1000#0/1
CTGATCCAAAATGGAAGGCTTTGTGCGACAATGCTTCAAT
+HWI-EAS443:3:78:582:1000#0/1
aVX`[aa_[^V]ZT¥RW[V]_]_]`_^]RU¥_]Z^^_¥
@HWI-EAS443:3:81:431:1219#0/1
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+HWI-EAS443:3:81:431:1219#0/1
¥Zaaaa¥_ababaa`aaaa`]_aaaaa`aba`Y^^¥
@HWI-EAS443:3:89:1005:1007#0/1
CTGATCCAAAATGGAAGGCTTTGTGCGACAATGCTTCAAT
+HWI-EAS443:3:89:1005:1007#0/1
abb`b`baYb_a^baaaabab_a_aa`a]bbaaa`aaaa`
@HWI-EAS443:3:11:1276:1882#0/1
CAAAATGGAAGGCTTTGTGCGACAATGCTTCAATCCAATG
+HWI-EAS443:3:11:1276:1882#0/1
abb`abbab`W¥`a_b`Z_¥`aU`__YK[]Y`¥_¥XaaTa
@HWI-EAS443:3:15:648:296#0/1
GATCCAAAATGGAAGGCTTTGTGCGACAATGCTTCAATCC
+HWI-EAS443:3:15:648:296#0/1
ab_X^babaaab^a_]aa¥__aaaaZa`a^`a`_Z]_^_
@HWI-EAS443:3:15:728:165#0/1
CAAAATGGAAGGCTTTGTGCGACAATGCTTCAATCCAATG
+HWI-EAS443:3:15:728:165#0/1
`bbaaaa`a^^XX_aa`]^U¥a_a_]_[^¥__a^R^_[]W
@HWI-EAS443:3:21:1391:1817#0/1
CAAAATGGAAGGCTTTGTGCGACAATGCTTCAATCCAATG
+HWI-EAS443:3:21:1391:1817#0/1
ab¥`^Zaaa_]Z¥QPZTORF¥_Q]__aUSUVa[]_^LRWZ
@HWI-EAS443:3:25:931:910#0/1
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+HWI-EAS443:3:25:931:910#0/1
abbb_bbabaaaabbba`aba```aaabaaa`aa_`aaa`
@HWI-EAS443:3:2:1726:1768#0/1
AGGCTTTGTGCGACAATGCTTCAATCCAATGATCGTCGAG
+HWI-EAS443:3:2:1726:1768#0/1
`aaMaaaaX`_aaU`_[a[_^TY^TS_¥^]^[V_WN¥YU
@HWI-EAS443:3:30:1023:317#0/1
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+HWI-EAS443:3:30:1023:317#0/1
aab]¥aaaaabaaaa`aaaa^_Va`^a`^a_``^^^R`
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+HWI-EAS443:3:30:942:883#0/1
¥__^RZ_UZ_b_]Uaaaaa`^aa_W]aaaa_]^[XHPa
@HWI-EAS443:3:31:434:233#0/1
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+HWI-EAS443:3:31:434:233#0/1
a`WZ[aaaaab`[]`a``aa``aa_aaa_a`ZZ_¥`Y¥`_
@HWI-EAS443:3:34:727:922#0/1
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+HWI-EAS443:3:34:727:922#0/1
^¥0Ha_ZU`a__aa]Z`T`_[P`TPY]]U¥[[[ZHQYBB
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+HWI-EAS443:3:37:100:1253#0/1
ab`_]X[W`¥V¥_a^`][ab`X`ZXS`a^R]Z`¥aa¥`^
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+HWI-EAS443:3:38:1193:963#0/1
aaa]aaaa`_a_`_aaaaa[`^`_a_a[ZWW¥¥¥Y^¥¥^W
@HWI-EAS443:3:39:1522:614#0/1
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+HWI-EAS443:3:39:1522:614#0/1
``_aa]ab_[a`babaa^a[S`^¥`^`_a_UX[X`^`[]W
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+HWI-EAS443:3:40:1055:1653#0/1
a_`^`a^^`aa`_]`_aaa`^^^_a_Y]^[__ZY¥Y_]`
@HWI-EAS443:3:40:458:106#0/1
GGCTTTGTGCGACAATGCTTCAATCCAATGATCGTCGAGC
+HWI-EAS443:3:40:458:106#0/1
aba``ab^ba`a_`__a_¥^_[V]]X^Y]]]]Y]^YR
@HWI-EAS443:3:45:431:578#0/1
CCAAAATGGAAGGCTTTGTGCGACAATGCTTCAATCCAAT
+HWI-EAS443:3:45:431:578#0/1
a`aTJ`^0_b_P^aaa]]VZ[__[`__¥Ua`[aV¥X^`^`
@HWI-EAS443:3:48:1185:1274#0/1
AGGCTTTGTGCGACAATGCTTCAATCCAATGATCGTCGAG
+HWI-EAS443:3:48:1185:1274#0/1
aaaaaabbb`aaaaaaabaaaaaaa`aaaa`_`_a]^a_`

@HWI-EAS443:3:48:1734:1959#0/1
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+HWI-EAS443:3:48:1734:1959#0/1
`_LW^PV[QW]SXQZ^aa^`]a__a_``_]_]_LKYRUVQ^
@HWI-EAS443:3:53:1143:1787#0/1
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+HWI-EAS443:3:53:1143:1787#0/1
a`W0`ab_W]Zb_^aWaa_`^_a`aYaaaa``_`a_``_a
@HWI-EAS443:3:55:100:352#0/1
CAAAATGGAAGGCTTTGTGCGACAATGCTTCAATCCAATG
+HWI-EAS443:3:55:100:352#0/1
aaXUSU`_]_Xa^Wa[aWSZ_[S[[_aa¥a][ZLR]TRNV`
@HWI-EAS443:3:55:1671:1424#0/1
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+HWI-EAS443:3:55:1671:1424#0/1
aaaa_]_a]aa_aaaaYaa^`_]Z¥`aa`____YZ^^[W^
@HWI-EAS443:3:60:1443:777#0/1
GCTTTGTGCGACAATGCTTCAATCCAATGATCGTCGAGCT
+HWI-EAS443:3:60:1443:777#0/1
`]aa]b`a_a``aaa]_aa`a`_]_¥]^`^_`^SaZaZ^
@HWI-EAS443:3:60:852:982#0/1
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+HWI-EAS443:3:60:852:982#0/1
aaaaaaaaaaaa`aaaa_a_a_]aaaa_```a_a¥V¥````_`
@HWI-EAS443:3:62:55:820#0/1
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+HWI-EAS443:3:62:55:820#0/1
ab]aaaaaaaaaaaa_aaaaa`aZ^````_a`P¥``^^]_[^
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+HWI-EAS443:3:63:1539:619#0/1
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+HWI-EAS443:3:70:537:236#0/1
a`[^V`G]XVVMYTKPUS^¥SXV[R_SUQ[UTYNHST[MN
@HWI-EAS443:3:71:1290:123#0/1
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+HWI-EAS443:3:71:1290:123#0/1
^^b`_``b[[ba¥S_bbaVbaa_¥¥Z_abb````_bbbabbb
@HWI-EAS443:3:7:930:1756#0/1
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+HWI-EAS443:3:7:930:1756#0/1
a`J^aaabaa_HWT`aaaV_Saa`a_a^`a_a_]a_XP^B
@HWI-EAS443:3:82:1009:773#0/1
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+HWI-EAS443:3:82:1009:773#0/1
aaaaaaaa`baaaaaaaaaaaaaaaaa``_`^ab`a`a]^`^_a
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+HWI-EAS443:3:83:121:1718#0/1
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+HWI-EAS443:3:8:1141:544#0/1
`bbbbbbbaababbab`a[`a]b`ba_abaabY]a`a
@HWI-EAS443:3:8:1200:247#0/1
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+HWI-EAS443:3:8:1200:247#0/1
WW¥aabaUaa__baa_XY¥]aX`]`PRO]UX^_YN]aU_^
@HWI-EAS443:3:91:453:448#0/1
AAGGCTTTGTGCGACAATGCTTCAATCCAATGATCGTCGA
+HWI-EAS443:3:91:453:448#0/1
aaaaaaaa_b^aa_aaa`aa`_`Y^`a`_`a¥^`_`Y^a]
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+HWI-EAS443:3:92:865:401#0/1
aa` `aaaa`aaa_a`aa[baaa`_a^a_a¥aa`aa¥^¥a
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+HWI-EAS443:3:94:1369:956#0/1
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@HWI-EAS443:3:95:527:92#0/1
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+HWI-EAS443:3:95:527:92#0/1
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@HWI-EAS443:3:98:110:1290#0/1
CAAAATGGAAGGCTTTGTGCGACAATGCTTCAATCCAATG
+HWI-EAS443:3:98:110:1290#0/1
aabababbbbaaaaa` `[a__`aaaa`aa^^`Y_a]__
@HWI-EAS443:3:98:853:1617#0/1
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+HWI-EAS443:3:98:853:1617#0/1
_Z`aaaba]a_aa`aaa`b_aaa_a`a_a_```Wa`QY`^
@HWI-EAS443:3:9:469:29#0/1
GCTTTGTGCGACAATGCTTCAATCCAATGATCGTCGAGCT
+HWI-EAS443:3:9:469:29#0/1
a`a_ZJV a_[^]][^_[Y]¥^RFTXXY^Y]U]XUVNYB
@HWI-EAS443:3:9:864:1330#0/1
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+HWI-EAS443:3:9:864:1330#0/1
¥Z¥¥]bb)`¥WkaYX]¥X`ZJ`_a¥XW]`ZNPYT^[__[_
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+HWI-EAS443:3:16:239:500#0/1
abZZa_00`_¥a__ [V¥X`_`^a`_`S¥`a_] [`SX`¥TBB
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GAGAAGCCTGAGGCGCTGCCTTCTTCAGTCTTTCAGCAG
+HWI-EAS443:3:24:813:315#0/1
Z`abZbabWX_QYab_a^UaU¥Q`_¥_b[`Q__RG_[KKX

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+HWI-EAS443:3:12:955:1399#0/1
T¥b[`aU`bNaUbb]`ab[abbb[`ababb[aNbK`¥_`
@HWI-EAS443:3:44:387:160#0/1
CACTATGAGAGCAAATCGTCAGATGATTGGAGCCCATCC
+HWI-EAS443:3:44:387:160#0/1
`aababb`aaaa`aa`aaa^[F^^`a]_`a_Y^]¥VMYWX
@HWI-EAS443:3:68:91:807#0/1
GGGTTGTACTCTATTTCTCTTTGTTTCATTGATTCCAT
+HWI-EAS443:3:68:91:807#0/1
^aa`¥^VXVI`a]a[[ba¥b]a``¥Z]__aaY^`^_`T_a
@HWI-EAS443:3:87:1081:1420#0/1
CGCTGCATCTGCACTCCCATTCGTTTCTGGGAGGCCTGAA
+HWI-EAS443:3:87:1081:1420#0/1
ab[^`_XV]OYM][HP^BBBBBBBBBBBBBBBBBBBBBBB
@HWI-EAS443:3:46:1402:507#0/1
CAAAATGACTATCGTCAACATCCACAGCACTCTGCTGTTC
+HWI-EAS443:3:46:1402:507#0/1
a[[`aaa]`bab[Z¥`aa]__`a[U¥VZ¥___a[Z`__`]
@HWI-EAS443:3:45:1114:1567#0/1
GCGAGCGAAAGCAGGTACTGATCCAAAATGGAAGCCTTG
+HWI-EAS443:3:45:1114:1567#0/1
YG¥aU^bWa[aYF^_WNNaaZ[YUYNNPXX_Z¥WQ[___]
@HWI-EAS443:3:97:841:2033#0/1
GGACCAGAGCGAAAGCAGGTCAAATATATTCAATATGGAG
+HWI-EAS443:3:97:841:2033#0/1
YLV¥MQa[YZ_a^aaXXZNa¥^[aa¥^a`¥XW`aaaX_¥
@HWI-EAS443:3:18:926:288#0/1
CTCTCCATATTGAATATATTTGACCTGCTTTCGCTCTGGT
+HWI-EAS443:3:18:926:288#0/1
ababaabbbbbbbbbbbbbbaaaaaaaaaaba`aa____a`¥
@HWI-EAS443:3:42:525:1264#0/1
ACCAGAGCGAAAGCAGGTCAAATATATTCAATATGGAGAG
+HWI-EAS443:3:42:525:1264#0/1
aa`aaa`_`a_aa``aa^aa_a^`____]__`¥`_^Z`[`
@HWI-EAS443:3:5:162:275#0/1
CAGCGAGCGAAAGCAGGTCAAATATATTCAATATGGAGAG
+HWI-EAS443:3:5:162:275#0/1
abaaba`abba]aa_aa^aa`aaa`aa_^`^a`aa^a^a
@HWI-EAS443:3:85:575:88#0/1
GTCTGGAGCGAAAGCAGGTCAAATATATTCAATATGGAGA
+HWI-EAS443:3:85:575:88#0/1
aa^aaa]a_a_`_a__`aW]__`_____^_]_[____W`Z
@HWI-EAS443:3:35:751:215#0/1
CGAGAGCGAAAGCAGGTCAAATATATTCAATATGGAGAGA
+HWI-EAS443:3:35:751:215#0/1
aa¥aaaa[^^^^a[^aZba`[_P[```_^¥Z_````_`G¥P
@HWI-EAS443:3:93:454:1448#0/1
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+HWI-EAS443:3:93:454:1448#0/1
abaa`abba_aaaaa^bbaaaa`aaa^^a`a`^a_aa
@HWI-EAS443:3:39:359:89#0/1
CAGGAGCGAAAGCAGGTCAAATATATTCAATATGGAGAGA
+HWI-EAS443:3:39:359:89#0/1
aabb`bbbaa`baaaa_a`_aa_a`^a`GXa]^a_]a[aY
@HWI-EAS443:3:7:1481:863#0/1
GCGAGCGAAAGCAGGTCAAATATATTCAATATGGAGAGAA
+HWI-EAS443:3:7:1481:863#0/1
a_b_a^aa`^a^aa_[^`_a^a^a`_^a`^`^`[_]a[]
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+HWI-EAS443:3:50:919:1843#0/1
`abaaabb`W`aab`a^Y`abaa_`¥b_aa¥Ta_`^aab
@HWI-EAS443:3:61:1639:1608#0/1
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+HWI-EAS443:3:61:1639:1608#0/1
S]ab`[^_a___b]^`^Q_UXaV¥_TGTXYVbb`^Z_VXV
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+HWI-EAS443:3:74:174:1790#0/1
`ab`a^bbabbaa^bbbbbabababaaaaa`]`aaaaaaa
@HWI-EAS443:3:81:487:437#0/1
GGAGCGAAAGCAGGTCAAATATATTCAATATGGAGAGAAT
+HWI-EAS443:3:81:487:437#0/1
aa_a]baaaa`aaa]^aa`a`aaaa`^_a_`^`[[]a]__
@HWI-EAS443:3:100:263:1135#0/1
AATGGGACTTATGACTACCCAAAATACTCAGAGGAACTT
+HWI-EAS443:3:100:263:1135#0/1
a`^YU]¥_a`aa_ZHPS^[^]^[TWS]^`_^]]^^^B
@HWI-EAS443:3:37:1309:465#0/1
AGTGGGGACATCAAGATACGGCAAGAAGTTCAAGCCGGAA
+HWI-EAS443:3:37:1309:465#0/1
IZ`X¥`¥U_U_aZ__ba_¥H¥`a¥b¥¥`WF_V_ZVW_^_Z
@HWI-EAS443:3:56:1546:87#0/1
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+HWI-EAS443:3:56:1546:87#0/1
`_MT`VJ``bbab]U[Y_ba`aW¥VYR`^RLY[QFJaaaa
@HWI-EAS443:3:73:1693:1805#0/1
AAAATGGGACTTATGACTACCCAAAATACTCAGAGGAAAC
+HWI-EAS443:3:73:1693:1805#0/1
a_a¥[a]^`_^]``_`_`_`^]Z`^^^¥_^[^^[]]YQQ^^V
@HWI-EAS443:3:75:998:262#0/1
GTGGGGACATCAAGATACGGCAAGAAGTTCAAGCCGGAAA
+HWI-EAS443:3:75:998:262#0/1
a_baaa[_aa`_aa`__YT_U_a[^a]]Y_]¥MV`^Z]^
@HWI-EAS443:3:76:1295:1843#0/1
GTTTCCTCTGAGTATTTTGGGTAGTCATAAGTCCCATTTT
+HWI-EAS443:3:76:1295:1843#0/1
^GY^[TY]][_[JY^RUYP RRK]ZYW]XZZ]R[Z]XZRXR

@HWI-EAS443:3:9:531:1678#0/1
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+HWI-EAS443:3:9:531:1678#0/1
`¥bNa`bba_Y¥^a¥a^abaQ`aba_aZ_aYaaRaab`¥_
@HWI-EAS443:3:62:401:1953#0/1
CGCCCTTTGGGAGCTGTTTAAAATTTTCCTTTGAGGATA
+HWI-EAS443:3:62:401:1953#0/1
a^^a__QZU`a`Vab^^X0¥^XVXNXYa^^`_`_¥X
@HWI-EAS443:3:72:1197:1127#0/1
GAAGGACGGACATCCGACATGCGGACAGAAGTTATAAGAA
+HWI-EAS443:3:72:1197:1127#0/1
aaa`aa`bb]]`a]_aU]a_a_ba`0_]Y`^G^L_]a_^
@HWI-EAS443:3:20:1676:1746#0/1
CGCCAGACTTATGATTGGACATTAATAGAAATCAACAGG
+HWI-EAS443:3:20:1676:1746#0/1
^b]aXb`]a_WI¥a`_bb`bbXXXbHGTW_``QR[_^I]a
@HWI-EAS443:3:3:361:613#0/1
ATGGACATAAAGAAGACAAGAGATATGGCCAGCATTAAAG
+HWI-EAS443:3:3:361:613#0/1
a`b^Vab]aabaab^`aa__a]Y_Wa__V[a__¥^]`Y_
@HWI-EAS443:3:71:101:1327#0/1
TAGACATAAAGAAGACAAGAGATATGGCCAGCATTAAAGC
+HWI-EAS443:3:71:101:1327#0/1
UI_baa¥XX¥Z]`)]`aa^__a[a``¥aab`W[0^^Z^_`
@HWI-EAS443:3:30:1660:880#0/1
GACATAAAGAAGACAAGAGATATGGCCAGCATTAAAGCAT
+HWI-EAS443:3:30:1660:880#0/1
abaa`ab`aa^bbaaab`b¥^^a_Z]Xaa¥Y`__`__^]]
@HWI-EAS443:3:40:854:307#0/1
CATAAAGAAGACAAGAGATATGGCCAGCATTAAAGCATCA
+HWI-EAS443:3:40:854:307#0/1
abbabbbbabaaaaabaab_baa_[H¥a`a`_U]_`_`_
@HWI-EAS443:3:48:1275:1511#0/1
ATAAAGAAGACAAGAGATATGGCCAGCATTAAAGCATCAA
+HWI-EAS443:3:48:1275:1511#0/1
abaaaba_aa`a]^^[_]`_a_]ZVYU^_^_W_X^_^_^
@HWI-EAS443:3:13:1144:186#0/1
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+HWI-EAS443:3:13:1144:186#0/1
abaaaaaab``aaa_a]b`Q]a_^]a[Y^`___XW]VWR_
@HWI-EAS443:3:19:998:1726#0/1
TGCCACCATCAAGGGAGCAATTTTACAATCCTGGAGCTCT
+HWI-EAS443:3:19:998:1726#0/1
[X¥a`b`b]V`]_¥]]Xbb`ab^[^][b_a^Y^a_ZM]__]
@HWI-EAS443:3:4:1087:2005#0/1
GTGGCCCACTTCAATTGGCTTGTCTCTTCATGTTCTTTG
+HWI-EAS443:3:4:1087:2005#0/1
a¥`aZ]_a`[PUaaQX^]`XR[Z`MMURVUV¥VGXPN]SB
@HWI-EAS443:3:24:1685:1139#0/1
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+HWI-EAS443:3:24:1685:1139#0/1
aaaabbaaaababaa]_aaYY¥FZ]`bY]aV]aYbaa_^
@HWI-EAS443:3:69:616:377#0/1
CGGCCCACTTCAATTGGCTTGTCTCTTCATGTTCTTTGT
+HWI-EAS443:3:69:616:377#0/1
abaaaa`aaYa_]__`_`aRU^Y[VaSJQ¥[W]RZ__YZ
@HWI-EAS443:3:35:108:197#0/1
GGCCCACTTCAATTGGCTTGTCTCTTCATGTTCTTTGTC
+HWI-EAS443:3:35:108:197#0/1
aaabaZaa`Z`a`aa`a_UW`¥^Z¥^[X¥[V^^_a`ZZ[
@HWI-EAS443:3:50:1237:706#0/1
GGCCCACTTCAATTGGCTTGTCTCTTCATGTTCTTTGTC
+HWI-EAS443:3:50:1237:706#0/1
¥aa`aaaa]X_aaaaa^T[^T]U^^RW`X^¥0]aaZX0
@HWI-EAS443:3:67:130:807#0/1
GGCCCACTTCAATTGGCTTGTCTCTTCATGTTCTTTGTC
+HWI-EAS443:3:67:130:807#0/1
Z^`baY^bbaVU`Y^_a^^GM_[``aa_T__Z_aaaZIX[
@HWI-EAS443:3:82:493:598#0/1
TGAGTCTTCTGTCAAAGAGAAAGACATGACCAAGGAATTC
+HWI-EAS443:3:82:493:598#0/1
^Z¥`^`abbabaa^I_b_[`_bbYabab`bb`a`]ab`aa
@HWI-EAS443:3:20:1580:1766#0/1
CTCAAAGGAAAATTTCAAACAGCTGCCCAAAGGGCAAAGG
+HWI-EAS443:3:20:1580:1766#0/1
aZ]VV¥ab^^`bbaYX^a^^`^`¥]`_`[_a`]U]__^Y
@HWI-EAS443:3:91:622:1128#0/1
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+HWI-EAS443:3:91:622:1128#0/1
ZIP[a[babZS^ZaTV¥a_VaaYRR[aZ[GVGZKV_Y[XZ
@HWI-EAS443:3:5:301:1315#0/1
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+HWI-EAS443:3:5:301:1315#0/1
[aba`]aabaaa`_[_¥b`_I][adWP_a_aa]aa^^K_a
@HWI-EAS443:3:43:335:1344#0/1
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+HWI-EAS443:3:43:335:1344#0/1
ab`babbabaaa_bbbba_b^YUbb`IH¥Y_ba[FWbaba]
@HWI-EAS443:3:98:1587:881#0/1
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+HWI-EAS443:3:98:1587:881#0/1
^bbbbb^bbbbb`aab`aabb`NZbb¥P_¥babHDFaUabb
@HWI-EAS443:3:15:861:693#0/1
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+HWI-EAS443:3:15:861:693#0/1
Y^abaT^^_YV`R_XQXbRGWa__XV[YUFFRQWNBBB
@HWI-EAS443:3:25:1630:1629#0/1
AGGAAATTGGAAACGGCTGCTTTGAATTTTATCACAAATG
+HWI-EAS443:3:25:1630:1629#0/1
¥`[a^ab_¥[_`^^a_Y^_00¥_HURW¥`¥RJY[]][Y]BB

@HWI-EAS443:3:6:1271:1802#0/1
AGGAAATTGGAAACGGCTGCTTTGAATTTTATCACAAATG
+HWI-EAS443:3:6:1271:1802#0/1
`ba¥`^`^`bbb¥`¥Z^¥S]X_OXVU_Y_PPG`UBBBBB
@HWI-EAS443:3:58:858:1059#0/1
ATTTGTCCTTCCAGGGGCGGGGGTCTTCGGGCTCTCGGA
+HWI-EAS443:3:58:858:1059#0/1
`a`b]Zbaaab]^baa```a][PYKPa[UODZWMQNTL
@HWI-EAS443:3:48:1647:835#0/1
TGCAAAGCCAGAAGATTTGTCCTTCCAGGGGCGGGGGTG
+HWI-EAS443:3:48:1647:835#0/1
OX`_^aab`X]NFZX¥_`baRRZ__```Z¥__Y¥Z[BBBB
@HWI-EAS443:3:95:1142:912#0/1
CGGGGGTCTTCGAGCTCTCGGACGAAAAGCAACGAACCC
+HWI-EAS443:3:95:1142:912#0/1
`aa[ZR]V``[``a__`^Xaa`aaX^a__```a_[UYPFY
@HWI-EAS443:3:43:1254:146#0/1
GCAAAGCCAGAAGATTTGTCCTTCCAGGGGCGGGGGTCT
+HWI-EAS443:3:43:1254:146#0/1
`_a^]^^^¥^^^aS^_V^W¥¥[V^U[_X[_BBBBBBBBBB
@HWI-EAS443:3:4:246:327#0/1
AGAAGATTTGTCCTTCCAGGGGCGGGGGTCTTCGAGCTC
+HWI-EAS443:3:4:246:327#0/1
Za`^a`ababZ^__aaaabaQ`]]T_FYYS]Y¥_TVNBB
@HWI-EAS443:3:38:953:1014#0/1
TCCGGCTTTCGTTTCATTACCAACTACGTCCCCTTGCC
+HWI-EAS443:3:38:953:1014#0/1
aaba¥]Zaaaa¥__[^¥aa]^_a`a_[R`^UVTY¥[RR^W
@HWI-EAS443:3:73:805:763#0/1
GTGGACAGGGCCGAAGGTACCATGTTTCAATCTTTCAACC
+HWI-EAS443:3:73:805:763#0/1
a)`X`_````a`¥H[OYUZYaZU___`[aPDNTa¥ON]QX
@HWI-EAS443:3:15:1783:1240#0/1
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+HWI-EAS443:3:15:1783:1240#0/1
a_W^E^baRXQY`Uaa¥_SNa`]S]baZaWYFZPOPTWLY
@HWI-EAS443:3:59:170:662#0/1
CCCCTTTTCGTTTCATTACCAACTACGTCCCTTGCCC
+HWI-EAS443:3:59:170:662#0/1
¥H[WHJ]__OLYU¥WW^aZZ[J^X[OYYYWJFRNUPJWUW
@HWI-EAS443:3:28:125:148#0/1
GGCTTTCGTTTCATTACCAACTACGTCCCCTTGCCAA
+HWI-EAS443:3:28:125:148#0/1
aaa`aaaa]aa_``aa_``_``_`[_YX__^¥XU_X]YY
@HWI-EAS443:3:13:1529:1177#0/1
GTCCCCTTTTCGTTTCATTACCAACTACGTCCCCTTGCC
+HWI-EAS443:3:13:1529:1177#0/1
^^aR[```UaRY[¥`_PS^aZ_^XH]¥_[R^JGPNPVVWN
@HWI-EAS443:3:17:217:1726#0/1
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+HWI-EAS443:3:17:217:1726#0/1
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@HWI-EAS443:3:75:626:467#0/1
CCCCGTTTTCGTTTTATTACCAACTACTGCCCCCTTGCCC
+HWI-EAS443:3:75:626:467#0/1
^Pa_FO`b`_V¥`SZ]X_^]__^WTa^aG[V[]US¥WS]
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+HWI-EAS443:3:100:1780:1972#0/1
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+HWI-EAS443:3:49:339:301#0/1
[Ubbbb¥`¥^[URZbb`I^b¥babbb_[H_abbb¥X¥T
@HWI-EAS443:3:52:873:1065#0/1
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+HWI-EAS443:3:52:873:1065#0/1
aa__WWU`R^X`[a`N`[a^`U^U¥``[FRYHTON¥LP
@HWI-EAS443:3:94:195:1826#0/1
AGAAGATCCCAAGGACAAAGAACATGAAAAGAACAAGCCA
+HWI-EAS443:3:94:195:1826#0/1
`VaaWaaaa`a`]¥`aa]`a`_aa___`_`¥aaa]P[QQ[
@HWI-EAS443:3:47:1165:267#0/1
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+HWI-EAS443:3:47:1165:267#0/1
a`aaa`aaa`_aa^_a___a`W_ZZ^^_Q¥¥^UU__¥W
@HWI-EAS443:3:100:419:1525#0/1
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+HWI-EAS443:3:100:419:1525#0/1
_baZ^`baaba_V__a`Z]V]FT`aN^[[a]a`GaVBBBB
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+HWI-EAS443:3:62:767:1581#0/1
XVaWa`bZabbabbab_`^^aX__Xbabb_¥¥_baa¥__b
@HWI-EAS443:3:31:63:831#0/1
CGGGTGGGATTCTTCAAGGAAAGCCATAGCCTCTAGAACA
+HWI-EAS443:3:31:63:831#0/1
aaZ[S[]X0¥a`_]__`^_]_Z`_Z`a`]_]_Z¥V¥_`
@HWI-EAS443:3:37:689:143#0/1
AATAACAGACACTATCAAGAGTTGGAGACACAATATATTG
+HWI-EAS443:3:37:689:143#0/1
abaaaaaaaa`a]`a]a¥`a`Z]ZHQa¥X[`¥V[[^
@HWI-EAS443:3:60:1087:1685#0/1
CAGGGCAGAGAGGAATTGCCCGCTAATTTACGGGAAC
+HWI-EAS443:3:60:1087:1685#0/1
TXVZTW`bb_aZ^`^^aTbaUba`P`a`babaZX`^Gab`

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+HWI-EAS443:3:94:1638:1714#0/1
a_a[_[``^N`]¥S_T`[PFUS¥VS¥XTRNPPWNQV¥WWO
@HWI-EAS443:3:15:490:1530#0/1
AGATAACATGGTGAATAGGAATGGCCCAACAACAAGTAC
+HWI-EAS443:3:15:490:1530#0/1
_bba¥aaabba_aaa`b]a]aaaaab[`aa__a[___`_a`
@HWI-EAS443:3:48:497:1068#0/1
TGGGGCTATTAGTATCAGATGGAGGACCAAACCTTATACAA
+HWI-EAS443:3:48:497:1068#0/1
a]]`ba^ba_`aPWZ]X[_`ab¥K¥RY_YG`aY_Z^_]`
@HWI-EAS443:3:54:606:528#0/1
GGGGCTATTAGTATCAGATGGAGGACCAAACCTTATACAAT
+HWI-EAS443:3:54:606:528#0/1
a`abaabaaabS_aa_a__aa^aa^_]_a_^aa``^]`^`_
@HWI-EAS443:3:79:687:1536#0/1
ACAAAAGCAACAAAAATGAAGGCAATACTAGTAGTTTGTG
+HWI-EAS443:3:79:687:1536#0/1
abaU`[]aa```a`aXY`Y]]a][^^]_^U¥X0]]]XU
@HWI-EAS443:3:14:1281:135#0/1
CGCAGCAAAAGCAGGGGAAAACAAAAGCAACAAAAATGAA
+HWI-EAS443:3:14:1281:135#0/1
a`_aa`aaa`a]]_aaa_____a```a_[KR_]_^__]Z
@HWI-EAS443:3:40:517:57#0/1
AGCAAAAGCAGGGGAAAACAAAAGCAACAAAAANGAAGGC
+HWI-EAS443:3:40:517:57#0/1
¥WX[]¥YaX]a^]aY^a`__`Z]Z¥G[YY¥UVDXX]_¥_
@HWI-EAS443:3:35:1219:574#0/1
GGCAGGGGAAAACAAAAGCAACAAAAATGAAGGCAATACT
+HWI-EAS443:3:35:1219:574#0/1
aaaababba`aa_aaa¥a¥`a_a^__a`a`U`_aa_^_S]
@HWI-EAS443:3:74:95:379#0/1
GGCAAAAGCAGGGGAAAACAAAAGCAACAAAAATGAAGGC
+HWI-EAS443:3:74:95:379#0/1
[[¥[`SZZ_]YR`]P¥aWY_a¥^`_a^``WSV__[F[ZZ
@HWI-EAS443:3:94:365:1811#0/1
CAGCAAAAGCAGGGGAAAACAAAAGCAACAAAAATGAAGG
+HWI-EAS443:3:94:365:1811#0/1
aa`aaa^a_``a_aa_`aa`aaa`_aaa_aa_``a``^^¥
@HWI-EAS443:3:100:464:130#0/1
AGCAAAAGCAGGGGAAAACAAAAGCAACAAAAATGAAGGC
+HWI-EAS443:3:100:464:130#0/1
aaaba_aa]_aa`aaa_a_aa``aY`_^``¥____`____^
@HWI-EAS443:3:10:1266:1198#0/1
CAAAAGCAGGGGAAAACAAAAGCAACAAAAATGAAGGCAA
+HWI-EAS443:3:10:1266:1198#0/1
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@HWI-EAS443:3:10:437:1837#0/1
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@HWI-EAS443:3:25:364:996#0/1
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+HWI-EAS443:3:25:364:996#0/1
V]``^Va_``Z_URR`babaaY`¥bbbb_a[^bbb`_bba
@HWI-EAS443:3:26:1255:1440#0/1
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+HWI-EAS443:3:17:314:1036#0/1
[a^Z^`aaaa____QX_a]_Z_a`a`Za^Z_[__¥_P¥W_
@HWI-EAS443:3:17:380:1028#0/1
TCCACATATATTACCTAGAGAAAGCCAACAAAATAAAATC
+HWI-EAS443:3:17:380:1028#0/1
_baaa¥bb`_a`ba`¥`b`a^b`aV`a¥G`[ababWb_a_
@HWI-EAS443:3:19:641:1745#0/1
GTCCACATATATTACCTAGAGAAAGCCAACAAAATAAAAT
+HWI-EAS443:3:19:641:1745#0/1
aW]MY[X¥]SS_RTZY_YOSX^¥[¥aa^^]``OVZ[ZW¥X
@HWI-EAS443:3:1:208:549#0/1
ACATATATTACCTAGAGAAAGCCAACAAAATAAAATCTGA
+HWI-EAS443:3:1:208:549#0/1
aaa`a` `aaa__aaaa`aa_a^` `^` `^^a^a_^_Yaab
@HWI-EAS443:3:22:378:1664#0/1
GTCCACATATATTACCTAGAGAAAGCCAACAAAATAAAAT
+HWI-EAS443:3:22:378:1664#0/1
`]`` `a`aV_ZWP]ba`¥^`_^`Y]_``^S]W`^aW_a_
@HWI-EAS443:3:23:1014:228#0/1
GAAGTCCACATATATTACCTAGAGAAAGCCAACAAAATAA
+HWI-EAS443:3:23:1014:228#0/1
a_aaa`Ya_aaaaaaaaa_a`aa_`]`` ` ` `^` ` ` `_
@HWI-EAS443:3:23:127:721#0/1
GGCTTTCTCTAGGTAATATATGTGGACTTCCCTCCGTGTT
+HWI-EAS443:3:23:127:721#0/1
aaaaaaaaabaaaaNa`aaa_a` []a_a`_a`^aa`S_]_
@HWI-EAS443:3:24:606:1610#0/1
GGTAATATATGTGGACTTCCCTCCGTGTTACTCCAATTC
+HWI-EAS443:3:24:606:1610#0/1
`b^b]babbaa_¥a`aabaab`_`__` `a` ` ` `aal[aaa
@HWI-EAS443:3:26:356:1823#0/1
CATATATTACCTAGAGAAAGCCAACAAAATAAAATCTGAG
+HWI-EAS443:3:26:356:1823#0/1
``[N]Waa]abbaVY]V_^Qa¥aab` `YY^`X^^V¥_a_]_
@HWI-EAS443:3:26:639:854#0/1
AACACGGAGGGAAGTCCACATATATTACCTAGAGAAAGCC
+HWI-EAS443:3:26:639:854#0/1
abba_abaa^a¥^`Ua[]aaa`a`^_a]_aaa____]_a¥Y
@HWI-EAS443:3:28:1634:427#0/1
GAGGGAAGTCCACATATATTACCTAGAGAAAGCCAACAAA
+HWI-EAS443:3:28:1634:427#0/1
aZY_`Z^Z¥RV]`]_`_a` []]aT_]`]^[aVX^^V^^]
@HWI-EAS443:3:37:699:993#0/1
CTAGGTAATATATGTGGACTTCCCTCCGTGTTACTCCAAT
+HWI-EAS443:3:37:699:993#0/1
abVabP^]Z`aba]Va^YMG]bb`^a__V_VWW_[^ZUXR

@HWI-EAS443:3:3:108:81#0/1
AGGTAATATATGTGGACTTCCCTCCGTGTTACTCCAATTT
+HWI-EAS443:3:3:108:81#0/1
aaa`abbaaaaa__]_aaaa]`aa_a_a``_¥a`^^¥``^
@HWI-EAS443:3:40:942:1318#0/1
ACGGAGGGAAGTCCACATATATTACCTAGAGAAAAGCCAAC
+HWI-EAS443:3:40:942:1318#0/1
`¥bb^YO^XY¥U``S[Y[X[^X`^_V`__[_a`¥[^W^¥
@HWI-EAS443:3:45:1196:1618#0/1
TGGCTTTCTCTAGGTAATATATGTGGACTTCCCTCCGTGT
+HWI-EAS443:3:45:1196:1618#0/1
aaa_abb`a_b_a`¥aaa`a`a__`_`]a_[^_a_X`]^`^
@HWI-EAS443:3:45:358:265#0/1
GCTTTCTCTAGGTAATATATGTGGACTTCCCTCCGTGTTA
+HWI-EAS443:3:45:358:265#0/1
a[aaa`b_aa[QSa`aabaa]`aaY]aa__`____a^aX__
@HWI-EAS443:3:45:474:303#0/1
GTTGGCTTTCTCTAGGTAATATATGTGGACTTCCCTCCGT
+HWI-EAS443:3:45:474:303#0/1
a¥aaaaaaa`_`_adW__^`_]__^`a[^____[]^`X_Y
@HWI-EAS443:3:46:684:2008#0/1
GGTAATATATGTGGACTTCCCTCCGTGTTACTCCAATTT
+HWI-EAS443:3:46:684:2008#0/1
a`¥__^aaaa`]a`]aa]_¥]`_X[W^^^]R[Y____]]¥U
@HWI-EAS443:3:47:1628:543#0/1
GAAGTCCACATATATTACCTAGAGAAAAGCCAACAAAATAA
+HWI-EAS443:3:47:1628:543#0/1
a`aa`a`a_aa`_`_a_a`Y__`[_`____]^MX^]^]U_^^^
@HWI-EAS443:3:48:958:49#0/1
CATATATTACCTAGAGAAAAGCCAACAAAATAAAATCTGAG
+HWI-EAS443:3:48:958:49#0/1
ab_bbbab`^Z`bbba_Yab]`bRK__abba¥aa`H^b_a
@HWI-EAS443:3:51:1248:1055#0/1
CACATATATTACCTAGAGAAAAGCCAACAAAATAAAATCTG
+HWI-EAS443:3:51:1248:1055#0/1
]`bbbabbbaba]abbaaaaa`¥a`aababbaabbb_ba
@HWI-EAS443:3:54:283:1906#0/1
AACACGGAGGGAAGTCCACATATATTACCTAGAGAAAAGCC
+HWI-EAS443:3:54:283:1906#0/1
ab^a`¥[¥]aaXU_U[]a^a`a^]a¥_^_a[S____`^UP`
@HWI-EAS443:3:56:1239:385#0/1
GTTGGCTTTCTCTAGGTAATATATGTGGACTTCCCTCCGT
+HWI-EAS443:3:56:1239:385#0/1
a`bbaabb`aab_aaYaaaaaaaa`a`_`^aa_¥`a`¥`_`
@HWI-EAS443:3:56:217:2024#0/1
GTTGGCTTTCTCTAGGTAATATATGTGGACTTCCCTCCGT
+HWI-EAS443:3:56:217:2024#0/1
aaabaabbbbaaaa_^_[bbbaaaa^^aa__aaaa_`a_aY
@HWI-EAS443:3:57:1515:1753#0/1
GTCCACATATATTACCTAGAGAAAAGCCAACAAAATAAAAT

+HWI-EAS443:3:57:1515:1753#0/1
]H[`Y[_b¥a`a`_XW^]a[[]]Y¥JOY_^`][Va^^_Z^
@HWI-EAS443:3:57:803:620#0/1
CACGGAGGGAAGTCCACATATATTACCTAGAGAAAGCCAA
+HWI-EAS443:3:57:803:620#0/1
a_Y_XUX`aaaa¥¥]```aaaa`__^a`aaa`^a`X_a`
@HWI-EAS443:3:57:999:1524#0/1
ACACGGAGGGAAGTCCACATATATTACCTAGAGAAAGCCA
+HWI-EAS443:3:57:999:1524#0/1
aUa`aa`bb__bYXZa__a`[a`_a`_aaa__^a`^^_
@HWI-EAS443:3:60:860:619#0/1
TCCACATATATTACCTAGAGAAAGCCAACAAAATAAAATC
+HWI-EAS443:3:60:860:619#0/1
]XTH[X`baaaaba`^a_abaaa`^`^^`aa_a¥¥aaaZ
@HWI-EAS443:3:61:470:132#0/1
TCCACATATATTACCTAGAGAAAGCCAACAAAATAAAATC
+HWI-EAS443:3:61:470:132#0/1
aaaaaaaa`baaaa`¥aa`a_]_a`aZ¥`_`_`_]^^W
@HWI-EAS443:3:63:1123:1492#0/1
GAGGGAAGTCCACATATATTACCTAGAGAAAGCCAACAAA
+HWI-EAS443:3:63:1123:1492#0/1
`_¥S[¥¥[HNaaR]¥¥^a^a]_Y`a`]baa_a^`¥^]ZZY
@HWI-EAS443:3:66:680:101#0/1
CACATATATTACCTAGAGAAAGCCAACAAAATAAAATCTG
+HWI-EAS443:3:66:680:101#0/1
abbbbbbbbababbabaaba^ba`aa_aaa^aaaaaa]aa
@HWI-EAS443:3:6:569:1490#0/1
CACATATATTACCTAGAGAAAGCCAACAAAATAAAATCTG
+HWI-EAS443:3:6:569:1490#0/1
XM`US_a_a_a`^b`b^¥aX`aaaa_aa_b`Yaba`T_`
@HWI-EAS443:3:72:1201:895#0/1
CACATATATTACCTAGAGAAAGCCAACAAAATAAAATCTG
+HWI-EAS443:3:72:1201:895#0/1
abbb_a^`aba`bab[baaa_[aba_X_a_bbaa_aY^_
@HWI-EAS443:3:76:451:847#0/1
CTCAGATTTTATTTTGTGGCTTTCTCTAGGTAATATATG
+HWI-EAS443:3:76:451:847#0/1
ab`^`a)`aaZ^aa`_aZ__a__[¥^_[I^aX]W[____^`
@HWI-EAS443:3:78:1370:154#0/1
AGTCCACATATATTACCTAGAGAAAGCCAACAAAATAAAA
+HWI-EAS443:3:78:1370:154#0/1
a_[Q___aa_aa_`_ZZa_a`_]_]][[VN^_^¥][^][
@HWI-EAS443:3:82:1778:912#0/1
GTCCACATATATTACCTAGAGAAAGCCAACAAAATAAAAT
+HWI-EAS443:3:82:1778:912#0/1
Y_^`^`a^a`baabaY_bba^aX`aabaaa_aaaa`aaa`
@HWI-EAS443:3:83:1101:209#0/1
CTAGGTAATATATGTGGACTTCCCTCCGTGTTACTCCAAT
+HWI-EAS443:3:83:1101:209#0/1
a`XZ`_`]^`b_a_]``USa`^¥Ya[Ya^^`_]P¥Y^`^`

@HWI-EAS443:3:88:1307:220#0/1
AGGTAATATATGTGGACTTCCCTCCGTGTTACTCCAATTT
+HWI-EAS443:3:88:1307:220#0/1
]a¥^babbbabb]b_aabb_P_`aabaab¥Q_[Xb` `a_
@HWI-EAS443:3:88:533:913#0/1
CACATATATTACCTAGAGAAAGCCAACAAAATAAAATCTG
+HWI-EAS443:3:88:533:913#0/1
Ua`^a`¥Xa¥aab`¥`a^abbbba_`_Y_`_¥a_XM_bb^a
@HWI-EAS443:3:92:330:1336#0/1
GAAGTCCACATATATTACCTAGAGAAAGCCAACAAAATAA
+HWI-EAS443:3:92:330:1336#0/1
aba`_abbaaa`aabbaa`aababbbbaa` `a_`aaaa`a
@HWI-EAS443:3:92:384:1188#0/1
CACGGAGGGAAGTCCACATATATTACCTAGAGAAAGCCAA
+HWI-EAS443:3:92:384:1188#0/1
aMaaaa¥aW_aa0aaa` `a` `__`_`^`a^` `aZ]^`_`]
@HWI-EAS443:3:93:1486:1443#0/1
ATTGGAGTAACACGGAGGGAAGTCCACATATATTACCTAG
+HWI-EAS443:3:93:1486:1443#0/1
X__Y_^b¥a`^VU^ba_aaW^aV¥]]`^`_aaaa`0J[[a
@HWI-EAS443:3:77:867:1207#0/1
AAAATGAAGGCAATACTAGTAGTTCTGCTATATACATTTG
+HWI-EAS443:3:77:867:1207#0/1
aa]a^SZaVa`X` [_baaZNXa__`_` ` `a_aa_a_^_^^
@HWI-EAS443:3:38:339:501#0/1
CGAATGTTATTTTGTCTCCCGGCTCTACCAGTTTCCAGTA
+HWI-EAS443:3:38:339:501#0/1
aa[HUVPSOU^`^[ORYOT]^`_BBBBBBBBBBBBBBBB
@HWI-EAS443:3:31:613:294#0/1
GCCAGTTGCTTCGAATGTTATTTTGTCTCCCGGCTCTACC
+HWI-EAS443:3:31:613:294#0/1
aa^[[I[[^[[aaXVYX_LYQ]a[¥MFV¥]X^S_BBBBBBB
@HWI-EAS443:3:30:1291:2019#0/1
ATGGGTGTCTTTCAACCAGAATCTGGAATATCAGATAGGA
+HWI-EAS443:3:30:1291:2019#0/1
a¥`_`_¥Z^aa__aaa¥][__Za^`a`^][]_Z_] [WY_P]
@HWI-EAS443:3:25:1589:1238#0/1
GGGATGCAATTTTCTCATTGACTGTGAATGTGAGAGGAT
+HWI-EAS443:3:25:1589:1238#0/1
aa`Y`]X_^]]aZXaaZD^]`X]]^XaU^Xa[_^XFW_¥R
@HWI-EAS443:3:77:1243:288#0/1
GAAAATTGCATCCCCTCTGTTCTGGTGGAGCAGCAGCAA
+HWI-EAS443:3:77:1243:288#0/1
a`]]]aaaa`aaUMFW]a[``^`X` ` _V__][VUY]]]ZNTV
@HWI-EAS443:3:35:583:798#0/1
GAAAAGAGAAAGCCAACAAAATAAAATCTGAGAAGACACA
+HWI-EAS443:3:35:583:798#0/1
_`^0Zaa`aXXT`__R__a`^[[aaa`Z^`_`_`¥_`^` `U_
@HWI-EAS443:3:14:1636:1898#0/1
GGGGTCTTCTCAGATTTTATTTTGTGGCTTTCTCTAGGT

+HWI-EAS443:3:14:1636:1898#0/1
V_b`UPK`a`XZ_R¥ba`ZX¥bY`]ROX` `0[GRT^IS
@HWI-EAS443:3:27:1702:824#0/1
GTCTTCTCAGATTTTATTTTGTGGNTTCTCTAGGTAAT
+HWI-EAS443:3:27:1702:824#0/1
aa_baaaaaba`aaaabaaa_a[D[a`[^`^`]¥aY_^a
@HWI-EAS443:3:67:441:184#0/1
ATGAAAGCCAACAAAATAAAATCTGAGAAGACACACATTC
+HWI-EAS443:3:67:441:184#0/1
ababV^`aa^_a^aaaaaaa^a_Wa_]a`_`_`^^]TU
@HWI-EAS443:3:25:216:2013#0/1
AGGGAGTGCCTGATTAATGATCCCTGGGTTTTGCTTAATG
+HWI-EAS443:3:25:216:2013#0/1
a`aa__[^`aa^_a__a_]_^]___S`[X_]^[^_]`^W¥
@HWI-EAS443:3:12:1773:1563#0/1
CTAGAGAAAGCCAACAAAATAAAATCTGAGAAGACACACA
+HWI-EAS443:3:12:1773:1563#0/1
¥`aa`bb^X`bbb_Y_bbbbbbabbbbabbb¥bb`bbbaa
@HWI-EAS443:3:12:221:1578#0/1
GTCTTCTCAGATTTTATTTTGTGGCTTTCTCTAGGTAAT
+HWI-EAS443:3:12:221:1578#0/1
`Xaa`^`_[]¥X`YW`_ZZ__N¥^`_PQP_^`WW[¥NX¥X
@HWI-EAS443:3:18:1431:1257#0/1
AAAGCCAACAAAATAAAATCTGAGAAGACACACATTCACA
+HWI-EAS443:3:18:1431:1257#0/1
^`WY¥ZXZb¥`aaa``][_aa¥T_aa`W_]_Wa^WX_Z_
@HWI-EAS443:3:27:1095:1132#0/1
GTCTTCTCAGATTTTATTTTGTGGCTTTCTCTAGGTAAT
+HWI-EAS443:3:27:1095:1132#0/1
a_aaaab`Y_¥aaaa^a`^a]_`Ua_^`X^`^V^]_
@HWI-EAS443:3:4:1788:652#0/1
GTCTTCTCAGATTTTATTTTGTGGCTTTCTCTAGGTAAT
+HWI-EAS443:3:4:1788:652#0/1
aRVWZRTXU`RW`^ZW]a^_UX^WNNT^SZUY[]^USZB
@HWI-EAS443:3:67:319:101#0/1
GTCTTCTCAGATTTTATTTTGTGGCTTTCTCTAGGTAAT
+HWI-EAS443:3:67:319:101#0/1
a[^^W_YR`]¥aaa`aaa]Y]a_aa`_`_`^T`U]X_
@HWI-EAS443:3:75:862:1342#0/1
GAAAGCCAACAAAATAAAATCTGAGAAGACACACATTCAC
+HWI-EAS443:3:75:862:1342#0/1
^`aZ`bbaabbb`a`ba``aba`¥aa`abbaabaaa_ab
@HWI-EAS443:3:81:1311:666#0/1
GTCTTCTCAGATTTTATTTTGTGGCTTTCTCTAGGTAAT
+HWI-EAS443:3:81:1311:666#0/1
a`aa`aaa`aaaaabaaab_a__Xaa`Za]a_a`^__a
@HWI-EAS443:3:97:619:1468#0/1
ATTACCTAGAGAAAGCCAACAAAATAAAATCTGAGAAGAC
+HWI-EAS443:3:97:619:1468#0/1
aa`aaaab`a`aaa``aa¥aaaaaaa``a`a^a`^____

@HWI-EAS443:3:18:141:1722#0/1
GCAAAAAGCAGGGGAAAACAAAAGCAACAAAAATAACGGTA
+HWI-EAS443:3:18:141:1722#0/1
abbbbbbababababbbbbbabb`bbbbbbbbbbabawU]
@HWI-EAS443:3:48:1066:129#0/1
GGGCAGCAAAAGCAGGGGAAAACAAAAGCAACAAAAATAC
+HWI-EAS443:3:48:1066:129#0/1
a_aa_baa`aaa`a`a___`^]_^_`^Z¥___^W^]ZW
@HWI-EAS443:3:35:1460:1167#0/1
GAAATCCTNATGTAAATACATATTCTACACTGTAAAGAC
+HWI-EAS443:3:35:1460:1167#0/1
¥_TVa`_`ODY^¥W]]X^`b`aa¥aaPb_ba_]a_WHH¥V`
@HWI-EAS443:3:39:548:29#0/1
AAATCCTAATCTTAAATACATATTCTACACTGTAGAGACC
+HWI-EAS443:3:39:548:29#0/1
]_`a`aa¥W]GZaa]]_Z¥[]^¥__[][^`ZTRT_`¥UM
@HWI-EAS443:3:44:41:678#0/1
GAAATCCTAATCTTAAATACATATTCTACACTGTAGAGAC
+HWI-EAS443:3:44:41:678#0/1
`_a_a`a`aaXEYaa`^aa`aaa`_a`Y_^^X_[]^_X
@HWI-EAS443:3:56:1026:622#0/1
TTCTCATTCTTCTGAAATCCTAATGTAAATACATATTCT
+HWI-EAS443:3:56:1026:622#0/1
¥RFURPQFRP]UP_]`¥` [TPTV]^¥QVRaWRUXFKXODR
@HWI-EAS443:3:19:1227:1092#0/1
GAAATCCTAATGTAAATACATATTCTACACTGTAGANAC
+HWI-EAS443:3:19:1227:1092#0/1
_RQZ`SPJ^¥YZ]P]_PSa¥S[^aYL[^`^YTZ^_ZPODLG
@HWI-EAS443:3:89:493:1357#0/1
CGGGCTTCTGAAATCCTAATGTAAATACATATTCTACAC
+HWI-EAS443:3:89:493:1357#0/1
abb`babbbababababbbabbXabbabababbbaba
@HWI-EAS443:3:12:1463:1385#0/1
GAAATCCTAATGTAAATACATATTCTACACTGTAGAGAC
+HWI-EAS443:3:12:1463:1385#0/1
a`Y¥`¥Q]¥`_`_]Y]]a`a_^^``[^`aW_[^a¥_`^_]X
@HWI-EAS443:3:13:958:441#0/1
ATGCTTCTGAAATCCTAATGTAAATACATATTCTACACT
+HWI-EAS443:3:13:958:441#0/1
abZRY^TZ`ab_`TLZ¥a`^^¥_U^[X¥`^]`]]`¥^_L]
@HWI-EAS443:3:14:668:1612#0/1
GAAATCCTAATGTAAATACATATTCTACACTGTAGAGAC
+HWI-EAS443:3:14:668:1612#0/1
`bb`a_aabaaaaaaaaaaaaaaaaaaaaa`_`_`_`baaa`_`
@HWI-EAS443:3:16:91:2014#0/1
GCTTCTGAAATCCTAATGTAAATACATATTCTACACTGT
+HWI-EAS443:3:16:91:2014#0/1
aa`^`ab_R`Ybbabbbaaa¥Vaa_`¥aba_aabaab_aW
@HWI-EAS443:3:25:31:1284#0/1
GAAATCCTAATGTAAATACATATTCTACACTGTAGAGAC

+HWI-EAS443:3:25:31:1284#0/1
¥J¥_aba`[_`a_a^]]^YaV`aaaaa]aaa`a_aa```_`
@HWI-EAS443:3:26:1381:1235#0/1
TGAAATCCTAATGTAAATACATATTCTACACTGTAGAGA
+HWI-EAS443:3:26:1381:1235#0/1
abaaaaaaaa`aaaaaaaaaaaaaaaaaa_aa`a^`^^_
@HWI-EAS443:3:33:641:24#0/1
TGCTTCTGAAATCCTAATGTAAATACATATTCTACACTG
+HWI-EAS443:3:33:641:24#0/1
aaa[___WQZS_Y]Y]TX]T__ZW¥[X^[W¥TWXXX¥YY[
@HWI-EAS443:3:34:164:1845#0/1
TTTTTCTCATGCTTCTGAAATCCTAATGTAAATACATAT
+HWI-EAS443:3:34:164:1845#0/1
aaba_bab_aabaabaa¥¥aaba`a``_aa`aaaa````
@HWI-EAS443:3:35:880:784#0/1
CTGAAATCCTAATGTAAATACATATTCTACACTGTAGAG
+HWI-EAS443:3:35:880:784#0/1
abbbbbbbba`baabbaabbbbbbb`b`abbbaaa^`^
@HWI-EAS443:3:37:1228:1238#0/1
TGCTTCTGAAATCCTAATGTAAATACATATTCTACACTG
+HWI-EAS443:3:37:1228:1238#0/1
`bba`aab[aaaab]T^abaaaaaaaa`a`[aab`a_aa`_
@HWI-EAS443:3:37:844:484#0/1
GAAATCCTAATGTAAATACATATTCTACACTGTAGAGAC
+HWI-EAS443:3:37:844:484#0/1
aaaaaaaa`aaaaaa`abaabaa``aa_a^a`a]a^````]
@HWI-EAS443:3:39:1601:102#0/1
CTAATGTAAATACATATTCTACACTGTAGAGACCCATTA
+HWI-EAS443:3:39:1601:102#0/1
abbabbbbbbbbaabbbbabbabbabbabbaX`_^Wa_]`^
@HWI-EAS443:3:39:293:382#0/1
CTCATGCTTCTGAAATCCTAATGTAAATACATATTCTAC
+HWI-EAS443:3:39:293:382#0/1
_ba^`bbbbaaa_ZZ`b]abb`_]`a`_a`aa___aaaa_
@HWI-EAS443:3:40:243:561#0/1
TTCTCATGCTTCTGAAATCCTAATGTAAATACATATTCT
+HWI-EAS443:3:40:243:561#0/1
aaaabaaaaaaaa`aa`X`aaa_aaa^[aXaaa```W_^a`
@HWI-EAS443:3:46:1372:777#0/1
TGCTTCTGAAATCCTAATGTAAATACATATTCTACACTG
+HWI-EAS443:3:46:1372:777#0/1
a[``^`_a]Y[Z¥^`__^^aV]^T^W]]`^]]^`^]W^WU]
@HWI-EAS443:3:53:1215:540#0/1
AAATCCTAATGTAAATACATATTCTACACTGTAGAGACC
+HWI-EAS443:3:53:1215:540#0/1
aaabaababbbbaabbbbaabbbbaaba`aaba`aaa_a`Y
@HWI-EAS443:3:54:88:757#0/1
ATGCTTCTGAAATCCTAATGTAAATACATATTCTACACT
+HWI-EAS443:3:54:88:757#0/1
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+HWI-EAS443:3:54:961:1128#0/1
aa_`aa`[a^[^_T^V¥VZ¥__^bbab`aa^_]__b_Y]_
@HWI-EAS443:3:55:97:829#0/1
ATGCTTCTGAAATCCTAATGTTAAATACATATTCTACT
+HWI-EAS443:3:55:97:829#0/1
`^^_`_]¥Y)`__[__`^`a^_Z_`_WQV¥Z`ZX^)]_Y]
@HWI-EAS443:3:58:973:940#0/1
CTCATGCTTCTGAAATCCTAATGTTAAATACATATTCTAC
+HWI-EAS443:3:58:973:940#0/1
abbbbabbbababaaaaabaabbaaa__aaaab`baaaaa
@HWI-EAS443:3:59:1602:831#0/1
GCTTCTGAAATCCTAATGTTAAATACATATTCTACTGT
+HWI-EAS443:3:59:1602:831#0/1
U¥¥V^aa__Ya`¥`¥a^aZ[`a`b`ba^`aUF_]TM[a]G
@HWI-EAS443:3:65:1486:210#0/1
GAAATCCTAATGTTAAATACATATTCTACTGTAGAGAC
+HWI-EAS443:3:65:1486:210#0/1
a`_`_`^`_`___`_`X`_`[^`___]___[^Y[^^]ZYWUT
@HWI-EAS443:3:67:585:1011#0/1
TTTTTCTCATGCTTCTGAAATCCTAATGTTAAATACATAT
+HWI-EAS443:3:67:585:1011#0/1
aaaaabaa_aaa`aaa`^]_aaaaaa_a`a`a`a`_`````
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AAATCCTAATGTTAAATACATATTCTACTGTAGAGACC
+HWI-EAS443:3:69:787:1946#0/1
`VPX`bW]]Y`UZ^¥aV`a__a__a^aa`_Z[V]WRM`YG
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CTGAAATCCTAATGTTAAATACATATTCTACTGTAGAG
+HWI-EAS443:3:70:1429:1261#0/1
abba[^abbbb`bb`bab`bbbbbbbaabbababaaa__
@HWI-EAS443:3:75:188:190#0/1
GAAATCCTAATGTTAAATACATATTCTACTGTAGAGAC
+HWI-EAS443:3:75:188:190#0/1
aaaaaaaaaaaa`aa`aa`_`a`a`aa_a`_`aX___^_]`
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^V¥¥`bb```bbabb`abbabb`baaba^Xaaa_b]`_aa
@HWI-EAS443:3:76:1234:693#0/1
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+HWI-EAS443:3:76:1234:693#0/1
Ta_`ababb_bW^`b^^aabb`bab]Wab`¥W_bbabab
@HWI-EAS443:3:76:747:1028#0/1
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+HWI-EAS443:3:76:747:1028#0/1
aaaaa`baaaaaaa_a_aaab`a¥a`aa`a`_`a`_`_aa_
@HWI-EAS443:3:76:764:1451#0/1
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+HWI-EAS443:3:76:764:1451#0/1
aaaa`_`aaa__`_`_`_]`^__`a_^`^^¥_`_`^`^`_
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GAAATCCTAATGTTAAATACATATTCTACACTGTAGAGAC
+HWI-EAS443:3:82:1478:1214#0/1
a_Y`^¥^baaa_aa^¥_aa_^a`aYaa`^a¥`a]_]a`]U
@HWI-EAS443:3:83:437:580#0/1
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`__Y¥_WWTXZUU`][WX`]¥aaa```aSaaaa``]ZTVY
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+HWI-EAS443:3:84:839:229#0/1
aa]^a`¥^a¥`a__a`a_[Y`_`a____`[Y`_`[^`^¥Z_Y
@HWI-EAS443:3:87:345:578#0/1
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aa_^`a`[_`_R`¥`a[XX_aaa_`a`a__`aX`_`_`¥
@HWI-EAS443:3:93:362:1878#0/1
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+HWI-EAS443:3:93:362:1878#0/1
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+HWI-EAS443:3:94:100:1007#0/1
¥^`bbbba]baaab``aaabbab`a`b^a^^aYVa_V¥Y
@HWI-EAS443:3:95:475:1567#0/1
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`¥_S`Z¥^_T```]`baa]a`]`]VZa_a0`a`a__``[
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GGGAGTTTTTTCCTCAACTGTCATACTCCTCTGCATTGTCT
+HWI-EAS443:3:24:1775:1702#0/1
`bI^ZQ¥`[`[a^_b``XQ[MHR`UUYDNW]XILOaW_G
@HWI-EAS443:3:51:489:447#0/1
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+HWI-EAS443:3:51:489:447#0/1
]ZXabaa_ab]ab[F_[b`Ra_¥a`PPQaX^_Y^WH¥HX^
@HWI-EAS443:3:17:806:304#0/1
GGGCATTTTTTCCTCAACTGTCATACTCCTCTGCATTGTCT
+HWI-EAS443:3:17:806:304#0/1
aa]G_`a____aa`_a^aaZ`_`^`]`_`_`U`_`^`^`]]^^
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+HWI-EAS443:3:47:1488:878#0/1
]aaHYb^aaa`[a`¥__[_V[`a__[^WT]U^^_`^UU]]

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+HWI-EAS443:3:50:1734:942#0/1
`¥`a`^`_]¥][X¥_UZ^¥`aa^^`^^`b`_`aZWaLFYYa
@HWI-EAS443:3:77:145:1477#0/1
GGGTATTTTTCTCAACTGTCATACTCCTCTGCATTCT
+HWI-EAS443:3:77:145:1477#0/1
S`UOUP_]_]_aTZZa`USLa^PaUR¥L¥UU¥MRPBBBBB
@HWI-EAS443:3:7:1403:1752#0/1
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+HWI-EAS443:3:7:1403:1752#0/1
abRO¥___aa`[^]R]WSa0___VW^VV_^`XV_]X_G[B
@HWI-EAS443:3:87:247:1319#0/1
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@HWI-EAS443:3:25:72:237#0/1
TTTTCTCAACTGTCATACTCCCCTGCATTGTCTCCGAAG
+HWI-EAS443:3:25:72:237#0/1
`bbaa`a`[aaa`bb_S^`ab`[^Y^a`¥` `[``YS¥
@HWI-EAS443:3:45:150:1108#0/1
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+HWI-EAS443:3:45:150:1108#0/1
aaWH¥a^_T¥]^^^VX^ZRYT`YYU[^VQ[^V¥VZT
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+HWI-EAS443:3:47:1373:1458#0/1
]_^bbba_baY_¥¥^Y¥^`T_[^Z`Xb`Y_¥¥NGT`]S`
@HWI-EAS443:3:50:551:239#0/1
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+HWI-EAS443:3:50:551:239#0/1
a¥S^a```[X]a`][^]P¥[PNX`_Z^aZSHZ]YJ[ZPX
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+HWI-EAS443:3:62:1668:579#0/1
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@HWI-EAS443:3:76:1379:128#0/1
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+HWI-EAS443:3:76:1379:128#0/1
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+HWI-EAS443:3:95:224:706#0/1
aaaZ]V#D#a_]__`]^a_QR`¥^^^`WZ`ZVQ[`W#Z^#
@HWI-EAS443:3:56:220:288#0/1
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+HWI-EAS443:3:56:220:288#0/1
`FU]`aaa^a__¥SXXaW#`[WW]]`__^Z#^^]]X^X
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+HWI-EAS443:3:27:1411:1635#0/1
`URP]aXUZ`aUaVN^``¥`]][__a]`_^ZZ__]]^]]
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+HWI-EAS443:3:46:1750:1428#0/1
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@HWI-EAS443:3:69:1584:1470#0/1
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+HWI-EAS443:3:69:1584:1470#0/1
aaaaabaaba`a``aaaa_^]`a^^[__a_]_aZ_^#^T
@HWI-EAS443:3:78:153:1250#0/1
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+HWI-EAS443:3:78:153:1250#0/1
abbaba`aaa^baaa``a#^a_#a``_]`__a____^__
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+HWI-EAS443:3:92:1697:856#0/1
Z`¥L_bb]a`W`a_aa_`^Y````aWWa[^aXaaa_NYa
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@HWI-EAS443:3:100:475:260#0/1
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+HWI-EAS443:3:100:475:260#0/1
¥_bbb_bababaaba_b]_b`aVaa`__aa[a]#`_0a^
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+HWI-EAS443:3:11:1168:377#0/1
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+HWI-EAS443:3:11:1480:977#0/1
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+HWI-EAS443:3:12:1105:1683#0/1
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+HWI-EAS443:3:12:1505:1392#0/1
¥_`^]RT`baa^]U_bb^ZWTZaaa^[`a`aYF¥aT^^_
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+HWI-EAS443:3:13:972:253#0/1
a`P[`^[_¥¥^`W]]`V]]X^LW[¥Y]^_VW]]^WUWT
@HWI-EAS443:3:14:1237:301#0/1
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+HWI-EAS443:3:14:1237:301#0/1
aaaa`_a^_]_`_]__``___W`Y_`^^`_]U_]W_]Z_
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+HWI-EAS443:3:15:1050:1870#0/1
__aaU_^^aaa^[`a``aaa^aa`a`a^^`aa`Y```]^_
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+HWI-EAS443:3:15:114:1458#0/1
abbaaaaaabaaa_aaaaaa^a_a`a]_aa¥]``aa___`
@HWI-EAS443:3:15:341:43#0/1
GTATTTTTCTCAACTGTCATACTCCTCTGCATTGTCTCC
+HWI-EAS443:3:15:341:43#0/1
a]__a`a```]_U^Y^a`YQ`[^WZYW^_^^Z¥^^_]V]^U
@HWI-EAS443:3:17:109:806#0/1
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+HWI-EAS443:3:17:109:806#0/1
aZXaaa_`aaaaa_a^a_`^`__a___aa___`_^_^___]
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+HWI-EAS443:3:17:1194:692#0/1
aaVaa`aa```a___]_a]¥¥^_]^^__X^_]__^_[X[]
@HWI-EAS443:3:17:416:891#0/1
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+HWI-EAS443:3:17:416:891#0/1
aaaYaaaaa`````a```_`a`a__a__`^__`__^^_`^
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+HWI-EAS443:3:18:1527:1526#0/1
a`X`abaaaaaaa_aa^aa`_aa^`^_a__`_]_`
@HWI-EAS443:3:18:215:1484#0/1
TTTTCTCAACTGTCATACTCCTCTGCATTGTCTCCGAAG
+HWI-EAS443:3:18:215:1484#0/1
aa`bababbba`a``aa]aa___`^^_aaaZY[_X___]
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+HWI-EAS443:3:19:127:921#0/1
aU`]^a_`a__¥]a^^U]YWa`_`a]__^__¥]_Z_]__
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+HWI-EAS443:3:19:1393:667#0/1
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VTJ`¥`baa`]baa¥R[]`baYa¥`ab_`^aaa`aa_
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+HWI-EAS443:3:1:1307:567#0/1
`SW^`__]ZX¥]__Y]^¥X¥^¥X¥UX]U]^ZW]]^ZXBBB
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@HWI-EAS443:3:21:109:962#0/1
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+HWI-EAS443:3:21:109:962#0/1
aaa`aaaa_aaaaa`aa`_```_`^^`_`____`^`_`]
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+HWI-EAS443:3:21:1268:1414#0/1
[ab]a]`ab_a^[^_a`aa`a]__`a]^____aaYVW][
@HWI-EAS443:3:21:1275:1885#0/1
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+HWI-EAS443:3:21:1275:1885#0/1
ab_a` `[TX_aa_T`VV_]ZaaXHWHS[F^]Ua¥`_G`^W
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a`XaaaaaaaaaabaYa]_a`a^_U__a^^`a^`_`_¥
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aJ¥a`a^_X`[T¥^[WOTX¥[L[VHWLYPSSRQOS_¥UU
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+HWI-EAS443:3:22:441:1798#0/1
a_a__a_abaa_`^aaaaa^`[__^`a___^`_`^^`^
@HWI-EAS443:3:22:442:899#0/1
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+HWI-EAS443:3:22:442:899#0/1
ab_aabbbbaU^0[_¥`ba`_`ba^aaaa`X_^`^]_Y^_
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+HWI-EAS443:3:24:694:75#0/1
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+HWI-EAS443:3:26:1240:1551#0/1
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@HWI-EAS443:3:26:703:1190#0/1
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+HWI-EAS443:3:26:703:1190#0/1
a]]bbabbaabbaaaaa`aa]aaaa`aaaa`__a_a`
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abJaaaa]_b]a`^a_ZaX`_[[Ua_X_]_^`a__RX^
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+HWI-EAS443:3:27:976:833#0/1
a^T^`a_¥`aa^_J_¥_RPW`Va`a^ZU_[`X]X^`XT¥
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+HWI-EAS443:3:28:557:1062#0/1
ab_L^ababbaaaaaaaaaa¥aaa`aaa_aa__`aa`____`
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+HWI-EAS443:3:28:935:1213#0/1
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+HWI-EAS443:3:28:938:891#0/1
a^X^a`aa`a[¥`X^]RZV¥[__Z^`_`a]`^_U¥Z_Y
@HWI-EAS443:3:29:342:1327#0/1
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+HWI-EAS443:3:29:342:1327#0/1
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@HWI-EAS443:3:29:469:2038#0/1
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+HWI-EAS443:3:29:469:2038#0/1
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@HWI-EAS443:3:2:1439:651#0/1
GGGTATTTTTCCTCAACTGTCATACTCCTCTGCATTGTCT
+HWI-EAS443:3:2:1439:651#0/1
aaaXaaa_aa_^]^[^_`Z]]Y]V_^]]¥_]W]^]VZZZ
@HWI-EAS443:3:2:517:1803#0/1
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+HWI-EAS443:3:2:517:1803#0/1
`[¥_`YYM`¥bbH_a^¥¥a`aa___`_a_`a_a_Y^STaa
@HWI-EAS443:3:30:1401:1078#0/1
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+HWI-EAS443:3:30:1401:1078#0/1
ab_XS`bbaaR_]_aaaaYaaa^aX]a`Y_¥_a00`Z[a
@HWI-EAS443:3:31:461:1420#0/1
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+HWI-EAS443:3:31:461:1420#0/1
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+HWI-EAS443:3:32:1147:1315#0/1
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+HWI-EAS443:3:32:17:183#0/1
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+HWI-EAS443:3:33:1154:1044#0/1
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@HWI-EAS443:3:33:1163:413#0/1
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+HWI-EAS443:3:33:1163:413#0/1
abaaabaaaaaaaaabaaa`a[]aa`a_aa`¥^]_[Ua^
@HWI-EAS443:3:33:963:787#0/1
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+HWI-EAS443:3:33:963:787#0/1
ab¥S_b`b``ab`Xa_aa__a_aaa`[]__[_]_^_AW`^
@HWI-EAS443:3:34:1423:594#0/1
GGTATTTTTCCTCAACTGTCATACTCCTCTGCATTGTCTC
+HWI-EAS443:3:34:1423:594#0/1
Z¥[¥`^X`ba[`aXX_VYQ¥`aZ_a]¥_X`UJ¥aYWYWBB
@HWI-EAS443:3:35:486:1638#0/1
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+HWI-EAS443:3:35:486:1638#0/1
a`_]_abbT]Q]]^Y]SaZGWY_a_]UNVaX`^___^[J^S
@HWI-EAS443:3:36:1079:176#0/1
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+HWI-EAS443:3:36:1079:176#0/1
_`[(`baa_aaaa`a`ab_aaaaaa_`a__R``Z`X`_a
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¥ba¥¥baaaa`aZ`abaWaaaa¥`a_aaYa_aaaaa[`
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+HWI-EAS443:3:36:1573:1660#0/1
SZba_ab`XX`bTZP¥`a`UX^_^ZN^`aW__^¥Z`]¥
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+HWI-EAS443:3:37:1303:1183#0/1
^bZaababaaaaaab`a[_aaaabbaaaXa_aaa`_ba_
@HWI-EAS443:3:37:1313:314#0/1
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+HWI-EAS443:3:37:1313:314#0/1
`Q^_`aba`^`_¥ZXa]Z^]_`X_^`XRVSa`^`][¥]]T
@HWI-EAS443:3:37:1341:702#0/1
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+HWI-EAS443:3:37:1341:702#0/1
abbYaabaaaa_aaaa`a]aaaa^a_]_W`aaaa_a]`_
@HWI-EAS443:3:38:506:505#0/1
GGGTATTTTTCCTCAACTGTCATACTCCTCTGCATTGTCT
+HWI-EAS443:3:38:506:505#0/1
a`aS`aa_[^^^`_Y^_]__]_]_Y]WY]]X]_Y]Y
@HWI-EAS443:3:39:1421:960#0/1
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+HWI-EAS443:3:39:1421:960#0/1
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+HWI-EAS443:3:3:770:680#0/1
aabba_a^a`aa`Za`a^a`_`aa^`a[Xa]]a¥]`
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+HWI-EAS443:3:3:825:895#0/1
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+HWI-EAS443:3:42:1080:460#0/1
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+HWI-EAS443:3:42:149:1975#0/1
aa``a]^R_`aa]`W`X_Z]`^O`^aa¥¥]_`Z^
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+HWI-EAS443:3:44:1208:1533#0/1
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+HWI-EAS443:3:44:1476:889#0/1
ab^aabaaaa`a`a^a`_`aa__a`^`__a__a`^`_]_Z
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GGTATTTTCTCACTGTCATACTCCTCTGCATTGTCTC
+HWI-EAS443:3:44:789:1208#0/1
aYS^aa`_^RVT`W`_X[MS_YSR`WX[^T[^]^]_SMVY
@HWI-EAS443:3:45:257:2038#0/1
CTCACTGTCATACTCCTCTGCATTGTCTCCGAAGAAATA
+HWI-EAS443:3:45:257:2038#0/1
Q_`b`UaVaZ`b]K`ZQ_abbVV_bb_¥¥`L_ba_ab`Ya
@HWI-EAS443:3:45:61:493#0/1
TTCCTCACTGTCATACTCCTCTGCATTGTCTCCGAAGAA
+HWI-EAS443:3:45:61:493#0/1
a^Va`_VS`^`^_]_^UXSYXT]ZTV`a^]W_Z_Y^ZNZ
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+HWI-EAS443:3:45:80:1177#0/1
]_LX¥a`_]__YU¥`_SY¥`_Y)`_]¥_[W¥_`¥YW_[
@HWI-EAS443:3:45:81:1647#0/1
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+HWI-EAS443:3:45:81:1647#0/1
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@HWI-EAS443:3:47:190:455#0/1
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+HWI-EAS443:3:47:190:455#0/1
aaW`abaaaa]_a`a]a`_]__`W_^Y_¥`_S_`_]ZY^¥
@HWI-EAS443:3:48:1702:115#0/1
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+HWI-EAS443:3:48:1702:115#0/1
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@HWI-EAS443:3:48:588:2045#0/1
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+HWI-EAS443:3:48:588:2045#0/1
H_¥^`bbVbb¥^bba_XXba]b_a¥bbaISVZxX`Y]T^
@HWI-EAS443:3:48:635:1066#0/1
GGTATTTTCTCACTGTCATACTCCTCTGCATTGTCTC
+HWI-EAS443:3:48:635:1066#0/1
abZaabaaaa`aaa`a`a[```````_`aaa__`a`_`__`_`_`
@HWI-EAS443:3:48:660:1446#0/1
GGGTATTTTCTCACTGTCATACTCCTCTGCATTGTCT
+HWI-EAS443:3:48:660:1446#0/1
aa`T`aa`````a`aa^`a^`a^[_`¥YZ`^`^`_`_`¥V]
@HWI-EAS443:3:49:1111:654#0/1
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+HWI-EAS443:3:49:1111:654#0/1
¥_Ua¥_bbabab`aa_]b`Vbaa_]^Ta`^aa¥_aba_aa
@HWI-EAS443:3:49:1609:259#0/1
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+HWI-EAS443:3:49:1609:259#0/1
aabR_aaab`]aS`__aaZN[`_^`Y]Y]Z^_^__X#^
@HWI-EAS443:3:4:348:1034#0/1
GGTATTTTTCCTCAACTGTCATACTCCTCTGCATTGTCTC
+HWI-EAS443:3:4:348:1034#0/1
aaYaaaaaaaa`aaaa_adW````^`^^`^____a_a_]_Z
@HWI-EAS443:3:50:1328:1762#0/1
TTTTCTCAACTGTCATACTCCTCTGCATTGTCTCCGAAG
+HWI-EAS443:3:50:1328:1762#0/1
_^```baaaaa`^^_b^Ua^^`_a¥abaa[a`][`]`a
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+HWI-EAS443:3:51:1356:1204#0/1
abaY]`baa```^aa`aaaZ]a`__a_a`^```^```Z^_
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GGTATTTTTCCTCAACTGTCATACTCCTCTGCATTGTCTC
+HWI-EAS443:3:51:404:592#0/1
aa¥Xaaaba__a¥a`_`a_]`a_]_]`a_aa^__`^]`^`
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+HWI-EAS443:3:51:630:732#0/1
ab]Q[baaaa`_aa]Y_a`_Ya_]`Y[]^a`_-[_]_`
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+HWI-EAS443:3:51:980:1109#0/1
abbaaabaab_aba`aba_b_ba_aabba__a^b__a_^
@HWI-EAS443:3:52:1096:253#0/1
TTTCCTCAACTGTCATACTCCTCTGCATTGTCTCCGAAGA
+HWI-EAS443:3:52:1096:253#0/1
ab`Z]^a^_[`a`]`a`aa¥[`^`Z^a_a`^a]Y_^V^Z
@HWI-EAS443:3:52:1211:628#0/1
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+HWI-EAS443:3:52:1211:628#0/1
ab[`aaaa`a`a__`a^`_a__`]`^`Xaa^`_`_W`]
@HWI-EAS443:3:52:1407:808#0/1
GGTATTTTTCCTCAACTGTCATACTCCTCTGCATTGTCTC
+HWI-EAS443:3:52:1407:808#0/1
]]_ZTYb`]TV]``T`¥_TJWXSJOJR`Sa^T`¥`^^GYO
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+HWI-EAS443:3:52:842:624#0/1
]`a_Z¥a¥_`^¥^`¥^Z_a`aa__Z__¥`ba`_]ZV]a]]_
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TCCTCAACTGTCATACTCCTCTGCATTGTCTCCGAAGAAA
+HWI-EAS443:3:53:820:1079#0/1
^__`_bab_^aaaa`^a`]`aa_aa`_b^_a¥]__]_¥_[
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+HWI-EAS443:3:55:150:905#0/1
a[OXV]a_VZ¥Z]YZ_YY^¥_YPYYZSYV¥^ZPQXT0YXY

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+HWI-EAS443:3:56:1077:379#0/1
`^`a^¥ab`_^_] ^¥RQ^a]V¥^a`^¥b¥aa]]Ua``aa`
@HWI-EAS443:3:56:557:1952#0/1
GGGTATTTTTCCTCAACTGTCATACTCCTCTGCATTGTCT
+HWI-EAS443:3:56:557:1952#0/1
¥ZYGX_¥`aa````]Y]]YV¥T^^]WW[^¥^_`^¥WV¥Z
@HWI-EAS443:3:57:1293:899#0/1
TTTTCTCAACTGTCATACTCCTCTGCATTGTCTCCGAAG
+HWI-EAS443:3:57:1293:899#0/1
aba`[¥aa`a_aa``aaa_a`_]_]a`¥`a`a____]Y_]_`
@HWI-EAS443:3:57:1414:358#0/1
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+HWI-EAS443:3:57:1414:358#0/1
]baWaababb[ab_aa_aaYS`a^_a[]a_aa^Vba`^_a
@HWI-EAS443:3:57:1481:598#0/1
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+HWI-EAS443:3:57:1481:598#0/1
_T_aaaa``¥a^_a_] ^TX`aa]_Z^`^`Q_^Z^]]_]X
@HWI-EAS443:3:57:677:563#0/1
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+HWI-EAS443:3:57:677:563#0/1
]ba]^]b_Q]b_]Y^Vb^Pa]_a_^[]a^`a`_`a_L^__
@HWI-EAS443:3:58:176:1850#0/1
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+HWI-EAS443:3:58:176:1850#0/1
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+HWI-EAS443:3:59:1211:736#0/1
abaaaababaaaa_`aaaWa_aa`aaaabaa^```ZR^[[
@HWI-EAS443:3:59:312:24#0/1
GGGTATTTTTCCTCAACTGTCATACTCCTCTGCATTGTCT
+HWI-EAS443:3:59:312:24#0/1
abb0`a`a_a`_]_a__^`^^¥^_]`_] ^]_Y]^^ZWYY]
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+HWI-EAS443:3:59:347:621#0/1
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+HWI-EAS443:3:5:739:110#0/1
abaaa_a^`aZaaZSaaa]a_]aZa_W_a`a^]_[a^_B
@HWI-EAS443:3:60:783:1620#0/1
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+HWI-EAS443:3:60:783:1620#0/1
]a`Xabbb`a``babbaba_ababaaa`aaaa^`a^^`a`
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@HWI-EAS443:3:6:171:1144#0/1
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+HWI-EAS443:3:6:171:1144#0/1
aaH`aaaaaaaa_aa_aaY`aa_____^`_`a^`^`a]X]a
@HWI-EAS443:3:6:541:1331#0/1
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+HWI-EAS443:3:6:541:1331#0/1
Taa_H]^bbba_ZVb`R_bZX[X^`_NYb`b[Y]^OWEN^
@HWI-EAS443:3:6:907:1527#0/1
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+HWI-EAS443:3:6:907:1527#0/1
ababa]baab_aa_`aa^V__^]^aa_a`aa_^aZ]a__`
@HWI-EAS443:3:70:612:1421#0/1
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+HWI-EAS443:3:70:612:1421#0/1
`a`Waaa`a_a]aaa_S]`_```aa^]a`a]_]``^^Z^^
@HWI-EAS443:3:72:1154:232#0/1
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+HWI-EAS443:3:72:1154:232#0/1
¥¥``UWN]_a[H]JRW^UYU[[U[`a[_]VR¥U]YY^^VZ
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GGTATTTTTCCTCAACTGTCATACTCCTCTGCATTGTCTC
+HWI-EAS443:3:72:239:494#0/1
aaXaaaaa`a`^`_`_`[`a`a^`__`_____`]^____
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+HWI-EAS443:3:72:362:1231#0/1
^^W_aaaa_¥Z^VSUaW]^_]aaa]Tb]¥aY^a^[\`Z`a
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+HWI-EAS443:3:72:488:706#0/1
`bbTa_aaa`]aaa^`^]aWaa]W`^`_`aa`_`]a`^`_
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+HWI-EAS443:3:72:736:1781#0/1
[aaaaaab`aa]b`^b]^aa`abaaa`aa_`]`__`__
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+HWI-EAS443:3:72:809:1751#0/1
a]Paaabb^abaa^_[aa_aaaa`^`]``a`^_W]_Ya]a
@HWI-EAS443:3:73:636:1970#0/1
GGGTATTTTTCCTCAACTGTCATACTCCTCTGCATTGTCT
+HWI-EAS443:3:73:636:1970#0/1
aa]Ua¥GZ`Saa_aYS`^U[Y]Y`^`^YS]_^a_]¥TN[Z
@HWI-EAS443:3:73:979:545#0/1
GTATTTTTCCTCAACTGTCATACTCCTCTGCATTGTCTCC
+HWI-EAS443:3:73:979:545#0/1
`[]aaaa`a_¥`¥_X¥^`__^¥Z^`^`^_a__^^_]`
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TTCCTCAACTGTCATACTCCTCTGCATTGTCTCCGAAGAA

+HWI-EAS443:3:74:876:1388#0/1
][RRZLS]WaW^¥_Z_¥]a][a^aY`OGI¥`´Y]L^]_
@HWI-EAS443:3:75:1335:1022#0/1
ATTTTTCCTCAACTGTCATACTCCTCTGCATTGTCTCCGA
+HWI-EAS443:3:75:1335:1022#0/1
a^`XH¥Y_bb`´Z_¥N¥aaa[Z^^_]`VZ[GUBOK][ZbY
@HWI-EAS443:3:76:940:1094#0/1
TTTTTTCCTCAACTGTCATACTCCTCTGCATTGTCTCCGAAG
+HWI-EAS443:3:76:940:1094#0/1
aaabaa^b_aa_aT`_a`_aaaa_a^_]`¥`^^^`^a¥__
@HWI-EAS443:3:77:1416:1630#0/1
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+HWI-EAS443:3:77:1416:1630#0/1
Ua[bUbbbaabb`bYbbb¥`a[´b`^]U[aaaaaaaa_``_a
@HWI-EAS443:3:77:751:835#0/1
GGTATTTTTCTCAACTGTCATACTCCTCTGCATTGTCTC
+HWI-EAS443:3:77:751:835#0/1
aaSaaaa_[]`aa]^`a`aaaa_aa^`_]`[_`a`_`_]`
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GGTATTTTTCTCAACTGTCATACTCCTCTGCATTGTCTC
+HWI-EAS443:3:77:843:261#0/1
aaWOT[a[XRX`Y_[XZ_WW^^_X¥]ZUQ]^Z^Z^_VZZ^
@HWI-EAS443:3:78:1704:1965#0/1
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+HWI-EAS443:3:78:1704:1965#0/1
a^aYMY_]_aP¥WUW^`_Y]XWZY_]VW^X_]XWMDXX[]
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GGGTATTTTTCTCAACTGTCATACTCCTCTGCATTGTCT
+HWI-EAS443:3:78:236:112#0/1
aaaZ^a`_aa`]RYa`]]^]]`_]`_^]`^^^^^^^^XW]
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@HWI-EAS443:3:78:379:1155#0/1
CTCAACTGTCATACTCCTCTGCATTGTCTCCGAAGAAATA
+HWI-EAS443:3:78:379:1155#0/1
a_¥X_W[XWP[Y¥S_X_aaa^ZZ¥0¥Z]]`_YZY[ORYY`
@HWI-EAS443:3:78:707:1012#0/1
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+HWI-EAS443:3:78:707:1012#0/1
_S_Ga`U`¥`_]_aSa_¥__I]VRZVWZ_]_X_]¥VQTSU[
@HWI-EAS443:3:79:869:232#0/1
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+HWI-EAS443:3:79:869:232#0/1
a`´W`_Z[Z[^a_TZMXZTT^X_¥^YH]VSW_^^QZ[X^
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+HWI-EAS443:3:80:1760:71#0/1
abbYaabaab`_a^a`_aa_Zaa`]´T¥`´`W`_`_]X[

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+HWI-EAS443:3:81:1185:948#0/1
aaa`¥`_aa`^Zaaa`a`__aZX_dW^_T¥a]_^OSSS
@HWI-EAS443:3:81:1627:1099#0/1
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+HWI-EAS443:3:81:1627:1099#0/1
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aaa]R`aaa`Y]V[`_¥Ya^R_``]¥¥`_Z``a¥][_Z
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+HWI-EAS443:3:83:1375:707#0/1
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+HWI-EAS443:3:85:1394:533#0/1
`]]^a]a¥a`XYa]]¥a][_Y]`Y[YU¥¥_`[`¥][a]__
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+HWI-EAS443:3:85:59:1009#0/1
aaaaaaaa`ab__a`aaaa`aa``^`_a^]_^a`^^[^
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+HWI-EAS443:3:86:107:1992#0/1
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@HWI-EAS443:3:86:499:1082#0/1
GGTATTTTTCTCAACTGTCATACTCCTCTGCATTGTCTC
+HWI-EAS443:3:86:499:1082#0/1
^aQSZab^Y^aaWWWa`a]a`^^]__`^a`aaaa`_a``
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+HWI-EAS443:3:86:731:1074#0/1
`a`_W^a__aaa`[_aGaaa^__a_¥PT__a`0_ZVLS]_
@HWI-EAS443:3:87:657:723#0/1
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+HWI-EAS443:3:87:657:723#0/1
[^a¥Z`a¥]__L[[XY_V`W¥a^`^T_baa]]YX_P[UY
@HWI-EAS443:3:88:1078:247#0/1
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+HWI-EAS443:3:88:1078:247#0/1
`aS^babab_aaaa¥aa`TR_aa_`_]a^]IR_`_`^]a^]
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+HWI-EAS443:3:89:955:1793#0/1
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+HWI-EAS443:3:8:279:358#0/1
aaVa]aa^`_YY`aa¥`_]`_^_X]_`_`ZXW]^_YX_]Z][
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abb]abbbba`a__a`aa`_aaa^a__a_aaa^aaa`^`
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+HWI-EAS443:3:92:1001:1770#0/1
aaaaa`_`a`_`a`_`a`X]a^`aa[]a_aa`a_`_YV[^`^`_
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+HWI-EAS443:3:94:230:1711#0/1
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+HWI-EAS443:3:95:60:1018#0/1
a_QOW[HRU_W]_a^[X¥VZVTZW^ZNZ___]TW]^PPLRW
@HWI-EAS443:3:95:907:708#0/1
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+HWI-EAS443:3:95:907:708#0/1
abb`aaaa_`aa^^`aa]a^aa_a`[aaaa^^a^_b^_a]

@HWI-EAS443:3:95:955:317#0/1
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abbaab`abaaba_abb_b__aaab^abaa__`N^``^a_
@HWI-EAS443:3:96:1241:1622#0/1
GGGTATTTTTCTCAACTGTCATACTCCTCTGCATTGTCT
+HWI-EAS443:3:96:1241:1622#0/1
aa]X`aaaab____`aa`aa^__`_``ZW`__^_``^_^]_
@HWI-EAS443:3:96:258:1454#0/1
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+HWI-EAS443:3:96:258:1454#0/1
aabba_YW¥^WNU_S[a^]`¥]````]`aOMZaXZJW`N[
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+HWI-EAS443:3:97:1448:1014#0/1
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+HWI-EAS443:3:98:1007:1787#0/1
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+HWI-EAS443:3:98:230:243#0/1
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@HWI-EAS443:3:98:433:691#0/1
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+HWI-EAS443:3:98:433:691#0/1
aaP_a`[`Z`[^__aW`a[_a___^[^¥Z``^¥_ZZ]^]_
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+HWI-EAS443:3:98:790:913#0/1
ab]Q`_a`YYRTa[YS``YP^X[Xa[M^Y¥]SW]]V^MRW
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+HWI-EAS443:3:99:1063:1023#0/1
`aaabbbb_aa_aaaaaa^aab_a`_a_aa_aaaa````^
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@HWI-EAS443:3:67:657:1363#0/1
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+HWI-EAS443:3:75:687:413#0/1
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+HWI-EAS443:3:98:494:863#0/1  
`YY^\_Y`^¥`[^`U`\_``\_T¥^`Z`^^][\_\_XDT[]\_Y\_]`  
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+HWI-EAS443:3:20:1382:511#0/1  
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+HWI-EAS443:3:68:236:732#0/1  
aaZYZbbaa]Q\_`bb\_ab\_a\_a^]a\_`a`aa`a\_a¥\_\_^`  
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+HWI-EAS443:3:11:1087:23#0/1  
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+HWI-EAS443:3:13:41:391#0/1  
aabHa]a`VVT\_\_V\_`\_\_aaaa\_a[^a`a]`^\_\_Y`\_`P\_`^  
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+HWI-EAS443:3:13:974:277#0/1  
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+HWI-EAS443:3:14:1241:767#0/1  
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+HWI-EAS443:3:14:181:1693#0/1  
aa\_Y\_V[`aa`aaa\_a`a]`¥^a`\_```a`a\_Za\_]\_\_^



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+HWI-EAS443:3:17:192:641#0/1  
aaaa`a`Waa\_a][aa\_a`a`a\_Z\_\_^`^a\_a\_¥\_`\_Z\_  
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+HWI-EAS443:3:19:739:1168#0/1  
``Y`aaVa`aa^`baaaa\_aa\_`aaaa`aa^a`aZ^  
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+HWI-EAS443:3:19:845:759#0/1  
`¥YU``][a\_\_]\_]\_a`a^\_^]X\_]`Q^XQ\_^\_WT]]^0  
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+HWI-EAS443:3:22:1449:1633#0/1  
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+HWI-EAS443:3:27:1473:1815#0/1
_¥^¥Haa``bb_bb`bbb_bb`aa_a_a]``_¥bb`_aaa
@HWI-EAS443:3:27:226:1146#0/1
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+HWI-EAS443:3:27:226:1146#0/1
YR]`a``TSPb]b]`KL^`Z`W`¥¥`ZY`aa]W]XY`_^`
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a]a_[aY]a`bbaaaaab_`T^a`abaaa_Q_aaaa]`U^
@HWI-EAS443:3:29:348:186#0/1
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+HWI-EAS443:3:29:348:186#0/1
ab`_a_bbbaabaaaaaaaaaaaaaaaaaaaa`a`a^_]`^
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+HWI-EAS443:3:2:598:1187#0/1
Y``abHbb`V`a`¥a`b`baba[a]¥``aaa_aabUZ__
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GCAGGGTGACAAAAACATAATGGACTCCAACACCATGTCA
+HWI-EAS443:3:32:219:132#0/1
aaa_Y]G``Y__[_¥]^^^V]^XXX^^]XXXX]YX]XXXV
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]abb`b_b_ba`¥b`abaUYUab]aabbabaZbaYaa_bb
@HWI-EAS443:3:32:438:532#0/1
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+HWI-EAS443:3:32:438:532#0/1
a`a````^S^Y^`X¥___`_a_^_]Y]`_`_]^^]]]]Z
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aa`aaaa^Vaaa_[a___^`[_XY`a_____`a`_]_OTM
@HWI-EAS443:3:32:713:500#0/1
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+HWI-EAS443:3:32:713:500#0/1
`bb`_¥Vab_b``aa]a_bZ^`[^__`]]`]aa_aXaT`R
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+HWI-EAS443:3:33:491:602#0/1
^^aZaZa^^aaaba`¥[¥aabbbb`_abbbbab`abaa`
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+HWI-EAS443:3:45:935:376#0/1
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+HWI-EAS443:3:47:1430:953#0/1
^a_¥]Vaaab`aX``¥a_[XWKa_T_`aa¥^XS¥¥HR¥ZH
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+HWI-EAS443:3:47:1618:1616#0/1
`^XaUa``b¥R[_``_P_a_``_`^`aa[_`Y_`WSaWX]
@HWI-EAS443:3:47:212:1830#0/1
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+HWI-EAS443:3:47:212:1830#0/1
a]Y_Y[aUS`a`ZXba`baaZ]`M`[a]aW__a`a`aa^^

@HWI-EAS443:3:49:338:723#0/1
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aaaaa]^baX``a`a`a^aaaa[a`a]a]_`_``]_`ba
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+HWI-EAS443:3:50:1528:500#0/1
abb]^`babaabbabbaab]aa_aa_aa`a__aaa]_```_
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+HWI-EAS443:3:52:1189:1685#0/1
abaWa_aab_aa_aa^`a`____]^_a¥``__aa_^`]__
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abbaG[¥¥a¥^_a^_a`ba`_^__¥__X]¥_aaa[_[X`
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+HWI-EAS443:3:53:859:1043#0/1
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@HWI-EAS443:3:61:588:1109#0/1
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+HWI-EAS443:3:61:588:1109#0/1
aX]Z_abbbaaaaa`[a_X[a_^aaW^`X¥Z_]V]XXY]
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`abba_bbbaa]ababaaa[a[`babaa`aaaaaa^aa[
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+HWI-EAS443:3:69:385:691#0/1
a`aS^aa_^`]a`aaa]``_a``aaa[]aaaaaa^aa_aW
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+HWI-EAS443:3:69:800:214#0/1
ab`^aaYbaaaaa_Q[aa_]^_^`]_^`_Y^YY_^`XX]
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[_`]]__`XHX^aaZJR__]]^YRVY[^YXY^^^S_^V]B
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T_]_ab_`a¥_aSba[`Z^`Y`a`aXYba^`a]___[XZ
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a]`]U^ba`a_[_^aaaa`_`__aY¥0`]]^__X^_]]^
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@HWI-EAS443:3:10:1044:1875#0/1
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`U^YZQX^^_[¥PX`_UN_]Wa`][Y`a_Ya`aZabX^]
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+HWI-EAS443:3:50:1241:1724#0/1
W[a¥¥^¥`Xa`_`bb`Wab_bbbbbbbbZ_ab¥bbXS`
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+HWI-EAS443:3:9:516:686#0/1
]]^`aabbbaYa^Y`b`¥_Z_a`bbbbbaa`_baaba`^
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+HWI-EAS443:3:11:1063:1477#0/1
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@HWI-EAS443:3:51:1036:870#0/1
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+HWI-EAS443:3:51:1036:870#0/1
``a_aaaab`]aba_`^`a_Z^¥a`^¥¥^`_`_`aa^^^aa`

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+HWI-EAS443:3:68:1642:1395#0/1
a``aaa`ba_a`aa_aa`_]VV`a``_`a^aa`_]Y``a`
@HWI-EAS443:3:89:1392:292#0/1
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+HWI-EAS443:3:89:1392:292#0/1
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Va_N`_a`^`_Z_NPZ^`_XPRNZ`_`^¥aZ¥XPX^__[_P
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@HWI-EAS443:3:77:772:1792#0/1
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@HWI-EAS443:3:95:1679:1324#0/1
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+HWI-EAS443:3:95:1679:1324#0/1
`bbbbbbbbbbbaa]Sb`_]`aSa`aaaaab_aaaaaa
@HWI-EAS443:3:97:428:1076#0/1
ATTTGAATGGATGTCAATCCGACTCTACTTTTCCTAAAAA
+HWI-EAS443:3:97:428:1076#0/1
aa[`_bbabb]¥_Y`a`[Sa¥[aWa`]^aaa`[aa_]a
@HWI-EAS443:3:97:881:1542#0/1
ATTTGAATGGATGTCAATCCGACTCTACTTTTCCTAAAAA
+HWI-EAS443:3:97:881:1542#0/1
aabbbaaaaaabb_aaaa`_a`Ya_a^]aaaa]aaaaa
@HWI-EAS443:3:17:1331:1843#0/1
GGACACGTTAAATTCATTATTTTTGCCGTCTGAGTTCTTC
+HWI-EAS443:3:17:1331:1843#0/1
R]¥b_VV`b`^`]ababK^b]b`Y^a`aaaab`b_]WaJP
@HWI-EAS443:3:17:1397:584#0/1
GGCATTATTTTCATGAAGGACAGGTTAAATTCATTATTTTT

+HWI-EAS443:3:17:1397:584#0/1
a^^`SX`TL[_a_¥¥U]V]]Y_TZ]]_[_¥^S[`^]__
@HWI-EAS443:3:37:1255:1055#0/1
GTTAAATTCATTATTTTTGCCGTCTGAGTTCTCCAATGGT
+HWI-EAS443:3:37:1255:1055#0/1
]HXYSU_¥_S[YTW[T[LRMN^M_ZS^a[YaY_FW^VBBB
@HWI-EAS443:3:44:1084:829#0/1
GTTAAATCCATTATTTTTGCCGTCTGAGTTCTTCAATGGT
+HWI-EAS443:3:44:1084:829#0/1
a`a`^aa_aaa`aaa`a`]a^^`aZ`_]a`¥^^`¥Y
@HWI-EAS443:3:49:490:219#0/1
GACAAGTTAAATTCATTATTTTTGCAGTCTGAGTTCTTCA
+HWI-EAS443:3:49:490:219#0/1
^`b¥S[Z¥^Xaba^J¥b^b^^`Z[Hb¥Ta]]a^a]a¥F¥
@HWI-EAS443:3:57:672:841#0/1
GAAGGACAAGTTAAATTCATTATTTTTGCCGTCTGCGTTC
+HWI-EAS443:3:57:672:841#0/1
aaa^^^aaZ__a]T[aaa`aaaa`a`_a`_aX^^]HX^__
@HWI-EAS443:3:62:1551:105#0/1
GGCATTATTTTCATGAAGGATAAGTTAAATTCATTATTTTT
+HWI-EAS443:3:62:1551:105#0/1
aa_Q^Y_a^^^U__XNa]JFL^_W]UWY^¥VMUY[WWY^¥
@HWI-EAS443:3:62:222:266#0/1
TTTTTCATGAAGGACAAGTTAAATCCATTATTTTTGCCGT
+HWI-EAS443:3:62:222:266#0/1
ababaaaaaaaa`a`_a`_a_]G¥`][¥_____]__^_X
@HWI-EAS443:3:69:1298:1589#0/1
TTTTTCATGAAGGACAAGTTAAATTCATTATTTTTACCGT
+HWI-EAS443:3:69:1298:1589#0/1
_baaX`__aa`b`_`[^U`_aa`^_]XX^```[``[a_
@HWI-EAS443:3:73:538:557#0/1
GACACGTAAATTCATTATTTTTGCCGTCTGAGTTCTTCA
+HWI-EAS443:3:73:538:557#0/1
`a_XHPUXW_a^SW¥`X[WTRLU_[_aZSSb¥¥ETZ[¥XV
@HWI-EAS443:3:74:265:754#0/1
GGCATTATTTTCATGAAGGACAAGTTAAACTCATTATTTTT
+HWI-EAS443:3:74:265:754#0/1
a¥b`^V`abb`¥b````ab^^]]`aa``baabaa`
@HWI-EAS443:3:76:1404:1454#0/1
GGCATTATTTTCATGAGGACAAGTTAAATTCATTATTTTT
+HWI-EAS443:3:76:1404:1454#0/1
aa^^^_aa`a`_`[[__`[^¥_[]`Z^^a_Y]_^_a_]_]
@HWI-EAS443:3:85:1073:482#0/1
GGACAAGTTAAATTCATTATTTTTGCCGTCCGAGTTCTTC
+HWI-EAS443:3:85:1073:482#0/1
^b¥b]^aTYS]aba¥aaa[aa^a_a`ab`]0]a`_aX¥ZL
@HWI-EAS443:3:87:506:381#0/1
GGACAAGTTAAATTCATTATTTTTGCCGTCCGAGTTCTTC
+HWI-EAS443:3:87:506:381#0/1
abbbbababb`abaaabaabbbbabaabababab_aaaaa

@HWI-EAS443:3:91:1307:951#0/1
CATGAAGGACGAGTTAAATTCATTATTTTTGCCGTCTGAG
+HWI-EAS443:3:91:1307:951#0/1
Y_bbbbbbaa^`b`b`abbbbbbbbbbb^b¥bbbb_`
@HWI-EAS443:3:95:1231:710#0/1
GGACAAGTTAAGTTCATTATTTTTGCCGTCTGAGTTCTTC
+HWI-EAS443:3:95:1231:710#0/1
ab__a¥`^abaPaba`ba_a`aaabR[aa_[a_b`¥[a`_
@HWI-EAS443:3:98:1170:1718#0/1
GGCATTTTTTTCATGAAGGACAAGTTTAAATTCATTATTTTT
+HWI-EAS443:3:98:1170:1718#0/1
Xba```b`Xbab_bbY^baVaabY_¥babaUYY`aY_b`[
@HWI-EAS443:3:14:1490:1696#0/1
ATNGATGCCAGGGTCGACTTCGAGTCTGGAAGGATCAAGA
+HWI-EAS443:3:14:1490:1696#0/1
a[DUaS`^aaa^aR_Y^a`__RaYN`^O^MPaNQN]_NX
@HWI-EAS443:3:86:1021:1712#0/1
CAAAAATAATGAATTTAACTTGCCTTCATGAAAAAAAAA
+HWI-EAS443:3:86:1021:1712#0/1
abbbbbbabbbabbabb_aaba¥`abbbbbaaaaaa¥a
@HWI-EAS443:3:24:1685:1401#0/1
GGCANTTTTTTCATGAAGGACAAGTTAAATTCATTATTTTT
+HWI-EAS443:3:24:1685:1401#0/1
]^_aPD[aaabVaa__^U`X_XT__b```abTQaa_b_aa_
@HWI-EAS443:3:2:1416:1557#0/1
GGCATNTTTTCATGAAGGACAAGTTAAATTCATTATTTTT
+HWI-EAS443:3:2:1416:1557#0/1
aa_a¥D^aaa_``__^aa^]¥[``_]`_Y^a_^^`_^_
@HWI-EAS443:3:30:1056:2045#0/1
AGTTAAATTCATTATTTTTGCCGTCTGAGTNCCTCAATGG
+HWI-EAS443:3:30:1056:2045#0/1
aa`¥babaaabbbbaa_baaaa`a_b_b[DYaaaa`_`^
@HWI-EAS443:3:70:86:1505#0/1
CATTNTTTCATGAAGGACAAGTTAAATTCATTATTTTTGC
+HWI-EAS443:3:70:86:1505#0/1
a¥ab^DWaa`a`^¥_a_XZa]aaaa_a_a`````_____
@HWI-EAS443:3:81:413:505#0/1
TTTTTCNTGAAGGACAAGTTAAATTCATTATTTTTGCCGT
+HWI-EAS443:3:81:413:505#0/1
[N]aWUD]SaVabTO`__aaXaa]Y`^X_^]¥ZX`XWL
@HWI-EAS443:3:81:675:663#0/1
GACAAGTTAAATNCATTATTTTTGCCGTCTGAGTTCTTCA
+HWI-EAS443:3:81:675:663#0/1
abaY^a_^_Zb]DZaaa`aaaaa__`_`aaaaP`^a^``
@HWI-EAS443:3:84:1404:762#0/1
GACAAGTTAAANTCATTATTTTTGCCGTCTGAGTTCTTCA
+HWI-EAS443:3:84:1404:762#0/1
aabYab]aa_[D[]^aa]_aaaa[^¥]_`a]a[_]``XX
@HWI-EAS443:3:93:1575:1081#0/1
ATGANGGACAAGTTAAATTCATTATTTTTGCCGTCTGAGT

+HWI-EAS443:3:93:1575:1081#0/1
a]X¥DY__`_Wa[a^[_aa[U`]\`aaaaa____`RSa_QaP
@HWI-EAS443:3:49:169:1355#0/1
GGCATTTCATGAAGGACAAGTTAAATTCATTATTNT
+HWI-EAS443:3:49:169:1355#0/1
¥baaaaa`_aa`a`aaa`\`SYaVaa`P_[__a^_a_[DY
@HWI-EAS443:3:22:1139:276#0/1
GGCATTTCATGAAGGACAAGTTAAATTCATTATTTTC
+HWI-EAS443:3:22:1139:276#0/1
aa]W`aaaaaa`\^a^_a]\`¥_YW_a¥¥`\`^^`_`__^`^V
@HWI-EAS443:3:100:49:162#0/1
AAGTTAAATTCATTATTTTGGCGTCTGAGTTCTCAATG
+HWI-EAS443:3:100:49:162#0/1
R`[OYaaS[U_bX¥[bbbb[O_aaVP[¥V^RJF`XYXBBB
@HWI-EAS443:3:10:341:1534#0/1
CATTTCATGAAGGACAAGTTAAATTCATTATTTTGC
+HWI-EAS443:3:10:341:1534#0/1
abbbbbbbbbbbbaaba^a_aaaaaaa`aaaaaa`^`a
@HWI-EAS443:3:10:660:1961#0/1
AAGTTAAATTCATTATTTTGGCGTCTGAGTTCTCAATG
+HWI-EAS443:3:10:660:1961#0/1
aZ^Uaa¥aaa_X_]`aa`U_]¥`]a^^XY^]W_^_]
@HWI-EAS443:3:10:725:305#0/1
GCATTTTCATGAAGGACAAGTTAAATTCATTATTTTGC
+HWI-EAS443:3:10:725:305#0/1
a^R[TQW¥XMY^RYQLTNITZZSPR[TOTQTYYSXTPU[X
@HWI-EAS443:3:11:1121:984#0/1
GTTAAATTCATTATTTTGGCGTCTGAGTTCTCAATGGT
+HWI-EAS443:3:11:1121:984#0/1
`XWRYV¥]]X[WWXTYS^SQW][ZJ^XXDRTQPS^[S^aV
@HWI-EAS443:3:11:1571:1371#0/1
ATTTTCATGAAGGACAAGTTAAATTCATTATTTTGGC
+HWI-EAS443:3:11:1571:1371#0/1
abaaabbbabbaaaU`_`[aXa`a^`a_aa`Ya_a_^__V
@HWI-EAS443:3:11:845:1842#0/1
AGGACAAGTTAAATTCATTATTTTGGCGTCTGAGTTCTT
+HWI-EAS443:3:11:845:1842#0/1
aaaX¥K¥_S_aWL[]W[[]`b`^`_SaZR^UUZ``aJYI]_
@HWI-EAS443:3:11:999:107#0/1
GGACAAGTTAAATTCATTATTTTGGCGTCTGAGTTCTT
+HWI-EAS443:3:11:999:107#0/1
abaaa`b_aa`aa]_b`aabba`a^_a^]aa^a^_Z``]
@HWI-EAS443:3:12:171:1340#0/1
TTTTTCATGAAGGACAAGTTAAATTCATTATTTTGGCGT
+HWI-EAS443:3:12:171:1340#0/1
[a¥[_¥WY_WY]]_]a¥¥_ZP]aa`^Y`a`^`^]ZW[[]`
@HWI-EAS443:3:12:656:653#0/1
GGCATTTCATGAAGGACAAGTTAAATTCATTATTTT
+HWI-EAS443:3:12:656:653#0/1
aa_]_`]\`a`Z_a_T`_a^]_`Y`__^]Y[[]`__^`[[

@HWI-EAS443:3:12:901:736#0/1
TTCATGAAGGACAAGTTAAATTCATTATTTTTGCCGTCTG
+HWI-EAS443:3:12:901:736#0/1
a]¥X]Z][MSTa]abWb]]][a_TMZ[¥^a^__aYT`X]___
@HWI-EAS443:3:13:1052:1517#0/1
TGAAGGACAAGTTAAATTCATTATTTTTGCCGTCTGAGTT
+HWI-EAS443:3:13:1052:1517#0/1
`ba_a¥_^abaRaa^`aa__aaaaa`aa`SbZU`ba`X[
@HWI-EAS443:3:13:1160:1319#0/1
GGACAAGTTAAATTCATTATTTTTGCCGTCTGAGTTCTTC
+HWI-EAS443:3:13:1160:1319#0/1
aa__`]aS_`a_`_a¥_[]`_____a____`][__][00ZR^[]
@HWI-EAS443:3:13:1657:1710#0/1
GGCATTTTTTTCATGAAGGACAAGTTAAATTCATTATTTTT
+HWI-EAS443:3:13:1657:1710#0/1
a]UY`a_]`^RPV_`T^`[YYYYUQ`^¥^_`[^YFR^]W]¥VV]
@HWI-EAS443:3:13:477:989#0/1
ATTGAAGAAGTTCAGACGGCAAAAATAATGAATTTAACTTG
+HWI-EAS443:3:13:477:989#0/1
a```aaa_X_aa`]]``¥`a]Z_aX¥`a`_¥___a``[_¥
@HWI-EAS443:3:13:893:1529#0/1
GGCATTTTTTTCATGAAGGACAAGTTAAATTCATTATTTTT
+HWI-EAS443:3:13:893:1529#0/1
a^]Z¥_^^ab```]]_]QW¥^_a_a[]`_a¥Z]`UYa`__`
@HWI-EAS443:3:14:1600:160#0/1
GACAAGTTAAATTCATTATTTTTGCCGTCTGAGTTCTTCA
+HWI-EAS443:3:14:1600:160#0/1
aab]X_]a_]aa]a_aa`b`aaW`PV`X^_`]a]¥P`YL[
@HWI-EAS443:3:14:983:1713#0/1
GGCATTTTTTTCATGAAGGACAAGTTAAATTCATTATTTTT
+HWI-EAS443:3:14:983:1713#0/1
a[^aaa_ba``aaa___¥]^___^a_Z_`_^_aU___^^_
@HWI-EAS443:3:15:1006:1454#0/1
GGCATTTTTTTCATGAAGGACAAGTTAAATTCATTATTTTT
+HWI-EAS443:3:15:1006:1454#0/1
`Y`^aaa`_`[_`^aaa`]V][a__^]`__W[¥]^a__^¥
@HWI-EAS443:3:15:1370:1102#0/1
TTTTTCATGAAGGACAAGTTAAATTCATTATTTTTGCCGT
+HWI-EAS443:3:15:1370:1102#0/1
`a¥`^S¥_]aY¥[JRW¥_U`YT]Z_HSYa]ba`WX]a[`T
@HWI-EAS443:3:15:779:1875#0/1
ATGAAGGACAAGTTAAATTCATTATTTTTGCCGTCTGAGT
+HWI-EAS443:3:15:779:1875#0/1
a_¥baaaba^^a^_a[a```_`_a_`_`]]_]_Z_W_X][
@HWI-EAS443:3:16:1713:1805#0/1
CATTTTTTTCATGAAGGACAAGTTAAATTCATTATTTTTGC
+HWI-EAS443:3:16:1713:1805#0/1
`U`b¥W`aa`]]``^^`a^][aa_¥aa`_a_`a[ab```a__
@HWI-EAS443:3:16:448:361#0/1
TTTTTCATGAAGGACAAGTTAAATTCATTATTTTTGCCGT

+HWI-EAS443:3:16:448:361#0/1
^aa¥_Q_ba`Z¥Za¥aaa_`_aba_a``bb^baaaa[bP`
@HWI-EAS443:3:16:72:1301#0/1
ATGAAGGACAAGTTAAATTCATTATTTTTGCCGTCTGAGT
+HWI-EAS443:3:16:72:1301#0/1
aab`V_a_a`^a_``^_``_`_]_`_a``_`a^`^a]aY
@HWI-EAS443:3:16:941:1107#0/1
ATGAAGGACAAGTTAAATTCATTATTTTTGCCGTCTGAGT
+HWI-EAS443:3:16:941:1107#0/1
abaaabaaaaaa_aaa_abaaaaaaaaaaa`a`a_]aa`a^
@HWI-EAS443:3:17:1117:1021#0/1
GGCATTTTTTTCATGAAGGACAAGTTAAATTCATTATTTTT
+HWI-EAS443:3:17:1117:1021#0/1
``R[bbbaaaaab]Y]baaa]a^a`^aa^a`_aaa^`^
@HWI-EAS443:3:17:552:75#0/1
AAGGACAAGTTAAATTCATTATTTTTGCCGTCTGAGTTCT
+HWI-EAS443:3:17:552:75#0/1
¥^bbVa^`aR`_¥_a`^J¥]Y^[¥WN^a¥aW[`a[aZV^a
@HWI-EAS443:3:17:930:1836#0/1
CATTTTTTTCATGAAGGACAAGTTAAATTCATTATTTTTGC
+HWI-EAS443:3:17:930:1836#0/1
a`baaabbbbaabb`a`bba``abaabbaababbba_a`
@HWI-EAS443:3:18:1256:460#0/1
GGACAAGTTAAATTCATTATTTTTGCCGTCTGAGTTCTTC
+HWI-EAS443:3:18:1256:460#0/1
aba^`^b`a```aaaa`aaaa^_a[ab^[ab]a[``_`^
@HWI-EAS443:3:18:1513:1381#0/1
GGCATTTTTTTCATGAAGGACAAGTTAAATTCATTATTTTT
+HWI-EAS443:3:18:1513:1381#0/1
aaaaabbaab`aa`^abb]W]a)`a`^`aa``b_`aa``a
@HWI-EAS443:3:18:1774:1310#0/1
CATTTTTTTCATGAAGGACAAGTTAAATTCATTATTTTTGC
+HWI-EAS443:3:18:1774:1310#0/1
ab_V`^`ZQ[bb`Z]^¥S¥a^V`_]_Zaa_R^¥[`¥[`WP[
@HWI-EAS443:3:19:1083:1179#0/1
GAAGGACAAGTTAAATTCATTATTTTTGCCGTCTGAGTTC
+HWI-EAS443:3:19:1083:1179#0/1
a`_`[^aZ[]baaX`a]a`aaa_`^aYFY^)`a_`¥_V
@HWI-EAS443:3:19:1143:426#0/1
GTTAAATTCATTATTTTTGCCGTCTGAGTTCTTCAATGGT
+HWI-EAS443:3:19:1143:426#0/1
a[aa_]aaYaaa`a¥_a_]_]Sa`_aY_Y]__^_]Y
@HWI-EAS443:3:1:1480:1158#0/1
GTTAAATTCATTATTTTTGCCGTCTGAGTTCTTCAATGGT
+HWI-EAS443:3:1:1480:1158#0/1
a[`NN[`a^Z`¥^`^^Y_WU_ZM`]L]XUT]^Y¥[_[BB
@HWI-EAS443:3:1:1611:620#0/1
GCATTTTTTCATGAAGGACAAGTTAAATTCATTATTTTTG
+HWI-EAS443:3:1:1611:620#0/1
aaaba`abbTabba`aa`^`_`_ba_aba]`aaaa`a`_`

@HWI-EAS443:3:20:1394:504#0/1
GTTAAATTCATTATTTTTGCCGTCTGAGTTCTTCAATGGT
+HWI-EAS443:3:20:1394:504#0/1
aUaWYY_`¥W[aYaa][¥S`]a)`_`_W¥M_UNX]SVW[
@HWI-EAS443:3:20:687:1294#0/1
GCATTTTTTCATGAAGGACAAGTTAAATTCATTATTTTTG
+HWI-EAS443:3:20:687:1294#0/1
abbabbbababaaaabbaa`aaaaabaa`aaa__a
@HWI-EAS443:3:20:951:373#0/1
CAAGTTAAATTCATTATTTTTGCCGTCTGAGTTCTTCAAT
+HWI-EAS443:3:20:951:373#0/1
Z^`_W_[a___W`a^Za```aY_U_¥_`^baa`_Za_aXW[
@HWI-EAS443:3:21:101:1086#0/1
ATTTTTTCATGAAGGACAAGTTAAATTCATTATTTTTGCC
+HWI-EAS443:3:21:101:1086#0/1
aaaa`aa`aaaaa]``a_a_aa^``aaaa`_a_a_``_]`
@HWI-EAS443:3:21:1039:312#0/1
GAAGGACAAGTTAAATTCATTATTTTTGCCGTCTGAGTTC
+HWI-EAS443:3:21:1039:312#0/1
aYW^_]Z¥a`a_W_^_]^^^_]`[^¥^W]^U^YY^][XY
@HWI-EAS443:3:21:1214:1923#0/1
GGACAAGTTAAATTCATTATTTTTGCCGTCTGAGTTCTTC
+HWI-EAS443:3:21:1214:1923#0/1
a_NQWWP¥Y^[^X^[NSYVNNRXSNTYWWL]]NQNNWST
@HWI-EAS443:3:21:718:1530#0/1
GACAAGTTAAATTCATTATTTTTGCCGTCTGAGTTCTTCA
+HWI-EAS443:3:21:718:1530#0/1
^abb`abbaabbbbaabba_aa`_a`abab``a`aab
@HWI-EAS443:3:22:188:1392#0/1
TGAAGGACAAGTTAAATTCATTATTTTTGCCGTCTGAGTT
+HWI-EAS443:3:22:188:1392#0/1
a_`_aaaaa^b]a`a^aaaaa^b_aa_[a``Za`aa_]`
@HWI-EAS443:3:22:417:501#0/1
GGCATTTTTTCATGAAGGACAAGTTAAATTCATTATTTTT
+HWI-EAS443:3:22:417:501#0/1
a_a`a^P]X`aa^¥a]_a[[]UW]S^_[[]_]`^]_XX_]`^YY
@HWI-EAS443:3:23:1074:657#0/1
ATTTTTTCATGAAGGACAAGTTAAATTCATTATTTTTGCC
+HWI-EAS443:3:23:1074:657#0/1
abbbbbbb`baaaaaa_aaaa`aa_ba`_baabaaa_`__
@HWI-EAS443:3:23:422:932#0/1
GGACAAGTTAAATTCATTATTTTTGCCGTCTGAGTTCTTC
+HWI-EAS443:3:23:422:932#0/1
`bba`V_`abaababa^aZbaabaaa]aaabab¥aaaa_
@HWI-EAS443:3:23:509:1607#0/1
GACAAGTTAAATTCATTATTTTTGCCGTCTGAGTTCTTCA
+HWI-EAS443:3:23:509:1607#0/1
abb¥bb`baabbbbaabbbbb`aabRT]bb^[JRWab_b
@HWI-EAS443:3:23:683:1310#0/1
TTTTTTCATGAAGGACAAGTTAAATTCATTATTTTTGCCG

+HWI-EAS443:3:23:683:1310#0/1
^^_a^Za`¥^ZZaaYaa_¥_____M]__ab^aaa`X`a`_a
@HWI-EAS443:3:24:1415:2013#0/1
GGCATTTCATGAAGGACAAGTTAAATTCATTATTTTT
+HWI-EAS443:3:24:1415:2013#0/1
aa[Z¥]V__[N[_`a_a_X_`][P^`[^TV__]]_^[]_
@HWI-EAS443:3:24:1571:1100#0/1
AGGACAAGTTAAATTCATTATTTTTGCCGTCTGAGTTCTT
+HWI-EAS443:3:24:1571:1100#0/1
abb`aa`b_bababaaabaabaaaaa_ab^Yaaaa`_¥a_
@HWI-EAS443:3:24:1758:114#0/1
TTTTTCATGAAGGACAAGTTAAATTCATTATTTTTGCCGTC
+HWI-EAS443:3:24:1758:114#0/1
aaba_aa`_a^b_]^[^`a`_`_a_a_^]aa^`a```^^Y^^[
@HWI-EAS443:3:24:730:1125#0/1
GGCATTTCATGAAGGACAAGTTAAATTCATTATTTTT
+HWI-EAS443:3:24:730:1125#0/1
`baaabaaaaaaaa`a``aa`a^aaa_a``aa`_`_a``
@HWI-EAS443:3:25:1049:265#0/1
TTTTTTCATGAAGGACAAGTTAAATTCATTATTTTTGCCG
+HWI-EAS443:3:25:1049:265#0/1
abbbaababbaaba`aaaa_aa`_aa`_aaaa``_aa_]`
@HWI-EAS443:3:25:1147:1121#0/1
AAGTTAAATTCATTATTTTTGCCGTCTGAGTTCTTCAATG
+HWI-EAS443:3:25:1147:1121#0/1
¥`a[`ba^`a```b`R`bb`a]aaaabba`^aaaaa`aa
@HWI-EAS443:3:25:1591:1397#0/1
ATGAAGGACAAGTTAAATTCATTATTTTTGCCGTCTGAGT
+HWI-EAS443:3:25:1591:1397#0/1
``a`bbbbaa``_aba]aba`_b_abaaaaa_a`]aa^^^
@HWI-EAS443:3:25:1613:707#0/1
CATTTTTTCATGAAGGACAAGTTAAATTCATTATTTTTGC
+HWI-EAS443:3:25:1613:707#0/1
_^abbbbbbbbababb_bbbbbbbbbbabbbbbba
@HWI-EAS443:3:25:1686:502#0/1
TTTTTCATGAAGGACAAGTTAAATTCATTATTTTTGCCGTC
+HWI-EAS443:3:25:1686:502#0/1
abbaaaaaabb`_a`_a`__a`_a`_aa`_`_]^[`[Z
@HWI-EAS443:3:25:216:1862#0/1
TGAAGGACAAGTTAAATTCATTATTTTTGCCGTCTGAGTT
+HWI-EAS443:3:25:216:1862#0/1
`ba^b^ab][URYaVaaY¥ba]H[]^a`Wab^R`_a`^¥¥
@HWI-EAS443:3:26:1173:842#0/1
AGAAGTCTGACGGCAAAAATAATGAATTTAACTTGTCCTT
+HWI-EAS443:3:26:1173:842#0/1
aaaaabaabaaaaaaaa`aaaaa]aaa`_`_`a]_^``
@HWI-EAS443:3:27:38:634#0/1
GACAAGTTAAATTCATTATTTTTGCCGTCTGAGTTCTTCA
+HWI-EAS443:3:27:38:634#0/1
aaaaa`baaabaaaa`aaaaaa`a_aaa[^`_a_aaaa

@HWI-EAS443:3:27:475:206#0/1
GGCATTTCATGAAGGACAAGTTAAATTCATTATTTT
+HWI-EAS443:3:27:475:206#0/1
a`]aaaaaaaaW^^aa][`Z^__^`___^^`__^Y
@HWI-EAS443:3:28:1064:1335#0/1
GAAGGACAAGTTAAATTCATTATTTTGGCGTCTGAGTTC
+HWI-EAS443:3:28:1064:1335#0/1
a^aST¥^^Uaa_X_`aXG¥`bbaa]aW¥`^aW`V`_aGSV
@HWI-EAS443:3:28:440:218#0/1
ATGAAGGACAAGTTAAATTCATTATTTTGGCGTCTGAGT
+HWI-EAS443:3:28:440:218#0/1
`a_aa_aU]__b_a_¥¥aZVPa][`aaaaTF¥PU[b[a`
@HWI-EAS443:3:28:49:714#0/1
GGCATTTCATGAAGGACAAGTTAAATTCATTATTTT
+HWI-EAS443:3:28:49:714#0/1
aa_UY`^ZU]bb_ZVMYa`_]_b[[WI[^_¥`a`a`a`_`
@HWI-EAS443:3:29:1242:739#0/1
GTTAAATTCATTATTTTGGCGTCTGAGTCTTCAATGGT
+HWI-EAS443:3:29:1242:739#0/1
ZIXabbabab_VYba¥]`a¥][¥ZO__b[aaa`]`a^WNR
@HWI-EAS443:3:29:1748:1146#0/1
GGCATTTCATGAAGGACAAGTTAAATTCATTATTTT
+HWI-EAS443:3:29:1748:1146#0/1
a`]_a_a`aa__^`^`_`^V^[_`^][_]X`^^`_`^^
@HWI-EAS443:3:2:1051:1299#0/1
GAAGGACAAGTTAAATTCATTATTTTGGCGTCTGAGTTC
+HWI-EAS443:3:2:1051:1299#0/1
YZ^]ZW__Za[a`Uaaaaa`aa_aaa__a^]`a`_`^aP
@HWI-EAS443:3:2:429:1517#0/1
GGCATTTCATGAAGGACAAGTTAAATTCATTATTTT
+HWI-EAS443:3:2:429:1517#0/1
abW_^a__ba[¥^a¥Ya`¥_aX_^W^]`_]S`_Y`_]`^X^
@HWI-EAS443:3:30:830:1200#0/1
GTTAAATTCATTATTTTGGCGTCTGAGTCTTCAATGGT
+HWI-EAS443:3:30:830:1200#0/1
a^`^¥][`^^aaaa`__][`^¥^`_`^]ZZ`a____][
@HWI-EAS443:3:31:1036:654#0/1
AGTTAAATTCATTATTTTGGCGTCTGAGTCTTCAATGG
+HWI-EAS443:3:31:1036:654#0/1
abaa_¥aba`Z_bbbaXaa`^aS`a]]a^a]`]__V[_`^
@HWI-EAS443:3:31:1346:1069#0/1
GGACAAGTTAAATTCATTATTTTGGCGTCTGAGTCTTC
+HWI-EAS443:3:31:1346:1069#0/1
Za¥_P¥`bba`_aba^aa^abab`a__aaab`ab_a^``]
@HWI-EAS443:3:31:1361:1477#0/1
GCATTTTCATGAAGGACAAGTTAAATTCATTATTTTGG
+HWI-EAS443:3:31:1361:1477#0/1
`aV[YNZ[`VSYb`a¥U`aZTaU`aa`a`_`^`____`_]`_`^
@HWI-EAS443:3:31:180:712#0/1
GGCATTTCATGAAGGACAAGTTAAATTCATTATTTT

+HWI-EAS443:3:31:180:712#0/1
^baPbbbbbab`abbaaaabaa`abaaaaabb_abaa`T
@HWI-EAS443:3:31:672:324#0/1
GGACAAGTTAAATTCATTATTTTTGCCGTCTGAGTTCTTC
+HWI-EAS443:3:31:672:324#0/1
`])`a]a[``a`__`_`[`a¥^`^^`_`Q_^^Z^Y__^]X
@HWI-EAS443:3:31:877:66#0/1
GACAAGTTAAATTCATTATTTTTGCCGTCTGAGTTCTTCA
+HWI-EAS443:3:31:877:66#0/1
`WZZ^a^b`K¥aa]_aaYaa````J[a]_``¥`_^]aZ]Z
@HWI-EAS443:3:32:1443:1675#0/1
GGCATTATTTTCATGAAGGACAAGTTAAATTCATTATTTTT
+HWI-EAS443:3:32:1443:1675#0/1
V_^Y`])U[PZZ¥]^a_Z^_U]V^Z¥U¥V[]aZ`[[^X_
@HWI-EAS443:3:32:737:1064#0/1
GGCATTATTTTCATGAAGGACAAGTTAAATTCATTATTTTT
+HWI-EAS443:3:32:737:1064#0/1
`bbbbab_aab`a`¥Z`_^a`^`^a`a`aaaa]X`_a`
@HWI-EAS443:3:32:958:531#0/1
GGCATTATTTTCATGAAGGACAAGTTAAATTCATTATTTTT
+HWI-EAS443:3:32:958:531#0/1
[aZZXV^a_¥b`a^VXYUP^XY¥T`Z[P]Z¥V`]a`[_]U
@HWI-EAS443:3:33:158:280#0/1
GGACAAGTTAAATTCATTATTTTTGCCGTCTGAGTTCTTC
+HWI-EAS443:3:33:158:280#0/1
]Y¥_X[^_]aaYaabbaaaaa^aaab_a`a_a]aU_aa¥a
@HWI-EAS443:3:33:378:647#0/1
GGCATTATTTTCATGAAGGACAAGTTAAATTCATTATTTTT
+HWI-EAS443:3:33:378:647#0/1
ab`Z]_aa`aaa```aaa]a]_aW`_`_`_a`_^`a^_¥a
@HWI-EAS443:3:34:1354:1298#0/1
CATTATTTTCATGAAGGACAAGTTAAATTCATTATTTTTGC
+HWI-EAS443:3:34:1354:1298#0/1
aabbbbaaaaabaa`a_aaaa`aaa`aaaaa`a```]_^
@HWI-EAS443:3:34:1670:673#0/1
GCATTTTTCATGAAGGACAAGTTAAATTCATTATTTTTG
+HWI-EAS443:3:34:1670:673#0/1
a^```bbab`aaa`Wba^a`_`aaa]__aaWaa^`_`[]WR
@HWI-EAS443:3:34:443:1675#0/1
GTTAAATTCATTATTTTTGCCGTCTGAGTTCTTCAATGGT
+HWI-EAS443:3:34:443:1675#0/1
a`^```abb`^`ba`aba¥aa_]a_Y`]^_a__aa__QY
@HWI-EAS443:3:35:1591:847#0/1
ATGAAGGACAAGTTAAATTCATTATTTTTGCCGTCTGAGT
+HWI-EAS443:3:35:1591:847#0/1
aaaaabaa`aa`_aa`_aa[_aaaa`b_aaa^a`^a`^^_
@HWI-EAS443:3:35:663:1918#0/1
CATTATTTTCATGAAGGACAAGTTAAATTCATTATTTTTGC
+HWI-EAS443:3:35:663:1918#0/1
`¥`aababbb_abaa`abaa`_aaaa`aaa```aaa```^a

@HWI-EAS443:3:35:697:996#0/1
GCATTTTTTTCATGAAGGACAAGTTAAATTCATTATTTTTTG
+HWI-EAS443:3:35:697:996#0/1
abaaaaaaaaab^_aa`a`a`]a_`a``_`a``_`a__[_
@HWI-EAS443:3:36:1492:60#0/1
GGCATTTTTTTCATGAAGGACAAGTTAAATTCATTATTTTT
+HWI-EAS443:3:36:1492:60#0/1
abbabbbbbbb`abb`abb_`abaaab_baaaba`aaaab
@HWI-EAS443:3:36:418:790#0/1
CATTTTTTTCATGAAGGACAAGTTAAATTCATTATTTTTGC
+HWI-EAS443:3:36:418:790#0/1
abbbbaabbbabaabaab[`b`aa_`a`a¥aa[a`a^aaa
@HWI-EAS443:3:37:1259:1198#0/1
GGACAAGTTAAATTCATTATTTTTGCCGTCTGAGTTCTTC
+HWI-EAS443:3:37:1259:1198#0/1
a`U__`^`aa_a^ab`^a``aa`a^``^UNK`_K¥0]a^_R
@HWI-EAS443:3:37:1506:467#0/1
GGCATTTTTTTCATGAAGGACAAGTTAAATTCATTATTTTT
+HWI-EAS443:3:37:1506:467#0/1
aa__aaaaa^a_a_`a__[_``_`a]]a[``_`^__`^^
@HWI-EAS443:3:37:1603:585#0/1
TTTCATGAAGGACAAGTTAAATTCATTATTTTTGCCGTCT
+HWI-EAS443:3:37:1603:585#0/1
`b`aaaba`aa__`_`¥a^`¥aa^ab`_aQa`aaa^a^_`
@HWI-EAS443:3:37:1640:1319#0/1
GCATTTTTTTCATGAAGGACAAGTTAAATTCATTATTTTTTG
+HWI-EAS443:3:37:1640:1319#0/1
aa_`aaaaaaaabaaaa__`a¥aa^_aa0Y_aaa^aa_]`
@HWI-EAS443:3:37:379:136#0/1
TGAAGGACAAGTTAAATTCATTATTTTTGCCGTCTGAGTT
+HWI-EAS443:3:37:379:136#0/1
aabaabaa`_`a_a[a_aaa`aaabaa`_`Y`a[``]`_a^_
@HWI-EAS443:3:37:738:1713#0/1
GGCATTTTTTTCATGAAGGACAAGTTAAATTCATTATTTTT
+HWI-EAS443:3:37:738:1713#0/1
]aaa[_`^VWY`a`^``Z^^[_a_aaab¥XaYY_Z`aXP_
@HWI-EAS443:3:37:785:1211#0/1
GACAAGTTAAATTCATTATTTTTGCCGTCTGAGTTCTTCA
+HWI-EAS443:3:37:785:1211#0/1
aa^`_aaaaaaa`a_aVaaa`a_aa`^aY`]]]a__^a_
@HWI-EAS443:3:37:988:990#0/1
GAAGGACAAGTTAAATTCATTATTTTTGCCGTCTGAGTTC
+HWI-EAS443:3:37:988:990#0/1
a]]]]a`[_]a_`Y]`a`a`a`_`]a_aG_^a^_`S¥_
@HWI-EAS443:3:38:1149:1879#0/1
AGGACAAGTTAAATTCATTATTTTTGCCGTCTGAGTTCTT
+HWI-EAS443:3:38:1149:1879#0/1
a_`a[a`aYa_`_`aaaa`_`aaa_]aZ`WIZ]__Y]Z^]
@HWI-EAS443:3:38:1495:574#0/1
GAAGGACAAGTTAAATTCATTATTTTTGCCGTCTGAGTTC

+HWI-EAS443:3:38:1495:574#0/1
a`_aa^__`a^`XR_a`_`_a`___^_XWZY]_ZaZZV
@HWI-EAS443:3:39:124:230#0/1
ATGAAGGACAAGTTAAATTCATTATTTTTGCCGTCTGAGT
+HWI-EAS443:3:39:124:230#0/1
^`a_X^R_YQ[RX^QV^`^aXYY]^`_`_]`Z`WP[N
@HWI-EAS443:3:39:1386:1012#0/1
GACAAGTTAAATTCATTATTTTTGCCGTCTGAGTTCTTCA
+HWI-EAS443:3:39:1386:1012#0/1
aabaaa`baa`baaabaaaa`aaaaa¥`aa[`[_[a]`[
@HWI-EAS443:3:39:1547:703#0/1
GGACAAGTTAAATTCATTATTTTTGCCGTCTGAGTTCTTC
+HWI-EAS443:3:39:1547:703#0/1
aa` `a`a`b`a`aa_aa`_a_aaa__W`^`^Y]_^_]__[
@HWI-EAS443:3:39:1639:1369#0/1
GGACAAGTTAAATTCATTATTTTTGCCGTCTGAGTTCTTC
+HWI-EAS443:3:39:1639:1369#0/1
abaJa_b^aaa_b_abaa`aaaaaaaYa`aa^Y`___a`Y
@HWI-EAS443:3:3:320:852#0/1
GGCATTATTTTCATGAAGGACAAGTTAAATTCATTATTTTT
+HWI-EAS443:3:3:320:852#0/1
S_`S[b¥^`baZab_P]a`_bab^b_abbba]aabbabb^
@HWI-EAS443:3:3:664:619#0/1
GAAGGACAAGTTAAATTCATTATTTTTGCCGTCTGAGTTCTTC
+HWI-EAS443:3:3:664:619#0/1
a[^TV¥^`aZ__`_a^a_`^`^`Y[___NU`[U^[Xa[[T
@HWI-EAS443:3:40:40:2024#0/1
TTTTTCATGAAGGACAAGTTAAATTCATTATTTTTGCCGTC
+HWI-EAS443:3:40:40:2024#0/1
aaaabaaaab_` `aa^`[`aaaa`a_Z¥Taa`_^`a_`R`
@HWI-EAS443:3:40:681:356#0/1
GGACAAGTTAAATTCATTATTTTTGCCGTCTGAGTTCTTC
+HWI-EAS443:3:40:681:356#0/1
`a^_¥0_X_X]X^^X_`^_^]^^^XZTKO__Y]ZZ]_XZ
@HWI-EAS443:3:42:1018:1114#0/1
GCATTTTTTCATGAAGGACAAGTTAAATTCATTATTTTTG
+HWI-EAS443:3:42:1018:1114#0/1
` `^aa` `baZ` `¥X^_^_]^[`_`^` `]`aa` ` `Y`ZDUY^
@HWI-EAS443:3:42:138:410#0/1
GTTAAATTCATTATTTTTGCCGTCTGAGTTCTTCAATGGT
+HWI-EAS443:3:42:138:410#0/1
a_`U^`^_a]` `]`_]_____]_]_]_[^^_Z]_^_YX
@HWI-EAS443:3:42:277:352#0/1
TTTCATGAAGGACAAGTTAAATTCATTATTTTTGCCGTCT
+HWI-EAS443:3:42:277:352#0/1
aaaaa`aaaa`_^`_`a^a_¥Wa__]a_¥a`^a[`^aaU__
@HWI-EAS443:3:42:433:1654#0/1
GGCATTATTTTCATGAAGGACAAGTTAAATTCATTATTTTT
+HWI-EAS443:3:42:433:1654#0/1
`Wa`[a^ba` `a¥aaa]__aa]_Wa¥W]a_a`a_aaa_[_`

@HWI-EAS443:3:42:977:1481#0/1
GGCATTTCATGAAGGACAAGTTAAATTCATTATTTT
+HWI-EAS443:3:42:977:1481#0/1
abaabbbbabaaaabYaa^]]`aa^aab_aa`aaaaa_
@HWI-EAS443:3:43:1220:1070#0/1
GACAAGTTAAATTCATTATTTTGCCGTCTGAGTTCTTCA
+HWI-EAS443:3:43:1220:1070#0/1
^SVX[HXWU¥b]`aa`b`[aT`a`^L]ab`aZ^^a``]
@HWI-EAS443:3:43:1338:1738#0/1
CATTTCATGAAGGACAAGTTAAATTCATTATTTTGC
+HWI-EAS443:3:43:1338:1738#0/1
ZY__T_`a`abZVZ`^Zb`U_UYYa``YZa`[YXabaa`Y
@HWI-EAS443:3:43:504:1685#0/1
CATGAAGGACAAGTTAAATTCATTATTTTGCCGTCTGAG
+HWI-EAS443:3:43:504:1685#0/1
aa¥^]Zb____`]]`¥^^HZ¥aaaaaaabaa_[_MXT`aY
@HWI-EAS443:3:44:1202:601#0/1
GGCATTTCATGAAGGACAAGTTAAATTCATTATTTT
+HWI-EAS443:3:44:1202:601#0/1
a`^`a`aa¥`aa_aa¥```a_]_]``aS¥a`_a__`^
@HWI-EAS443:3:44:1322:1157#0/1
TGAAGGACAAGTTAAATTCATTATTTTGCCGTCTGAGTT
+HWI-EAS443:3:44:1322:1157#0/1
¥]XTV[Z_]a`MU_¥]]^Z`baaaaa_a`][`_]aYaWN
@HWI-EAS443:3:44:403:957#0/1
GGCATTTCATGAAGGACAAGTTAAATTCATTATTTT
+HWI-EAS443:3:44:403:957#0/1
]`WU`UTUaUVX`bYF]aWX`^SR]VNP]a^M_ZL]aa^a
@HWI-EAS443:3:45:1188:532#0/1
TGAAGGACAAGTTAAATTCATTATTTTGCCGTCTGAGTT
+HWI-EAS443:3:45:1188:532#0/1
aa`a_U__`a`a`a^aa__a`aaaaaa_[a]¥`a_a[_
@HWI-EAS443:3:45:891:815#0/1
GACAAGTTAAATTCATTATTTTGCCGTCTGAGTTCTTCA
+HWI-EAS443:3:45:891:815#0/1
aa`__`a````a_Ya`_aa`_a____]S`_^_]^^a[^]
@HWI-EAS443:3:46:1021:1030#0/1
TGAAGGACAAGTTAAATTCATTATTTTGCCGTCTGAGTT
+HWI-EAS443:3:46:1021:1030#0/1
ab_`bb`a`_a]a`abaaaaaaaaaaaa`^a_aaa_aZa
@HWI-EAS443:3:46:1210:727#0/1
GCATTTTCATGAAGGACAAGTTAAATTCATTATTTTG
+HWI-EAS443:3:46:1210:727#0/1
aa^_aaaaaaaa`a`_`__a^a`[]aa`_a__a`a_^_
@HWI-EAS443:3:46:1234:972#0/1
GTTAAATTCATTATTTTGCCGTCTGAGTTCTTCAATGGT
+HWI-EAS443:3:46:1234:972#0/1
a`[GM]`YW¥__X]a`aaa_¥VT]ZVX^VVY[¥^]L]^YF
@HWI-EAS443:3:46:445:1119#0/1
TTTTTCATGAAGGACAAGTTAAATTCATTATTTTGCCG

+HWI-EAS443:3:46:445:1119#0/1
ababaaaaaa^a``a`b_aaa^````aaaaaa_a]¥a
@HWI-EAS443:3:46:980:1189#0/1
GGCATTTCATGAAGGACAAGTTAAATTCATTATTTT
+HWI-EAS443:3:46:980:1189#0/1
aaaaaaaaa`a`aa`aa``_a^`_^^``]`a``a`^`^`
@HWI-EAS443:3:47:1749:360#0/1
GGCATTTCATGAAGGACAAGTTAAATTCATTATTTT
+HWI-EAS443:3:47:1749:360#0/1
aa`Y^`[]^ZV[¥XTT]]MM[[R^[_T^^PS_VW¥US¥X
@HWI-EAS443:3:47:523:1611#0/1
CATTTCATGAAGGACAAGTTAAATTCATTATTTTGC
+HWI-EAS443:3:47:523:1611#0/1
`Yaba_aaa`^]^^aa]TVVb__`]X`^X^`^V^`_`^ZWO
@HWI-EAS443:3:47:864:459#0/1
GGACAAGTTAAATTCATTATTTTGGCGTCTGAGTTCTTC
+HWI-EAS443:3:47:864:459#0/1
ab__¥P¥[aaaaba^]b`aaaa]WU^^[^a_a^`[_`_
@HWI-EAS443:3:48:1003:1597#0/1
GGACAAGTTAAATTCATTATTTTGGCGTCTGAGTTCTTC
+HWI-EAS443:3:48:1003:1597#0/1
aZZ`^Y^TX[``_`_`_a^¥`_Y`^^^Z_]WG¥[YW[^
@HWI-EAS443:3:48:686:1765#0/1
GGACAAGTTAAATTCATTATTTTGGCGTCTGAGTTCTTC
+HWI-EAS443:3:48:686:1765#0/1
¥[ab`X`^U^`¥bb`b`bXb_a`bbT`bZZ¥`b_a_^`_
@HWI-EAS443:3:49:1104:1065#0/1
CATTTCATGAAGGACAAGTTAAATTCATTATTTTGC
+HWI-EAS443:3:49:1104:1065#0/1
ab`bab_b`bbbaabbaaaababba¥baaabbaaabaab_
@HWI-EAS443:3:49:1547:326#0/1
GACAAGTTAAATTCATTATTTTGGCGTCTGAGTTCTTCA
+HWI-EAS443:3:49:1547:326#0/1
``^a`a`b`aabaaaabbbba`a_[^b]aaaabaabaa_
@HWI-EAS443:3:4:1690:1506#0/1
GTTAAATTCATTATTTTGGCGTCTGAGTTCTTCAATGGT
+HWI-EAS443:3:4:1690:1506#0/1
a`aZZ`Y_[a[[[¥`[_^VS_Z[S_YaT[[[]][S[^[[
@HWI-EAS443:3:4:736:1601#0/1
TGAAGGACAAGTTAAATTCATTATTTTGGCGTCTGAGTT
+HWI-EAS443:3:4:736:1601#0/1
`bbabbbabbaba`bbabbaabbbbaa_aaa_abab`a
@HWI-EAS443:3:4:798:1388#0/1
GTTAAATTCATTATTTTGGCGTCTGAGTTCTTCAATGGT
+HWI-EAS443:3:4:798:1388#0/1
aaaaaabbaaaa`aaaaa`_a^]aa`a^`_aa_____`[[
@HWI-EAS443:3:51:1049:1469#0/1
CATGAAGGACAAGTTAAATTCATTATTTTGGCGTCTGAG
+HWI-EAS443:3:51:1049:1469#0/1
abbbbabbabb_b`bbbbabbbbabbbbaa`aab`bb`b

@HWI-EAS443:3:51:1102:812#0/1
GTAAATTCATTATTTTTGCCGTCTGAGTTCTCAATGGT
+HWI-EAS443:3:51:1102:812#0/1
]_b]aaa`]]`````[_aa`^a_^_a]aTZ¥`-[_-]_^T
@HWI-EAS443:3:51:128:784#0/1
GTAAATTCATTATTTTTGCCGTCTGAGTTCTCAATGGT
+HWI-EAS443:3:51:128:784#0/1
`¥aa`aabaaba`baaba^[]`¥_`a`a_^_a^_ZOYa`R
@HWI-EAS443:3:51:1602:770#0/1
GGCATTTCATGAAGGACAAGTTAAATTCATTATTTTT
+HWI-EAS443:3:51:1602:770#0/1
``X_b¥I`abb`b_bbaaT`]^_abb`bYR^bbbbbba`b
@HWI-EAS443:3:51:464:1048#0/1
TTTTTCATGAAGGACAAGTTAAATTCATTATTTTTGCCGT
+HWI-EAS443:3:51:464:1048#0/1
aaababaaa]¥`a^`a_a^``_W_^_a_Wa`a`a[^]^Y
@HWI-EAS443:3:51:572:1774#0/1
GGCATTTCATGAAGGACAAGTTAAATTCATTATTTTT
+HWI-EAS443:3:51:572:1774#0/1
¥`bbbbbb`]^baa^aa^[a_Za_babaa`a_aaaba[a`
@HWI-EAS443:3:51:631:1032#0/1
GCATTTTTTCATGAAGGACAAGTTAAATTCATTATTTTTG
+HWI-EAS443:3:51:631:1032#0/1
aa`aaaaa___aaaa_a^`^a_``]Yaa_]aa`aaa`_`_`
@HWI-EAS443:3:51:83:1214#0/1
TGAAGGACAAGTTAAATTCATTATTTTTGCCGTCTGAGTT
+HWI-EAS443:3:51:83:1214#0/1
abababa_aaabbaa`bbaabbababababaaa_aaa]a[`
@HWI-EAS443:3:51:988:1284#0/1
GAAGGACAAGTTAAATTCATTATTTTTGCCGTCTGAGTTC
+HWI-EAS443:3:51:988:1284#0/1
a^abaa_]aaaaYU]aYW_`^a`aaaa^_a__`a[a^a^]
@HWI-EAS443:3:52:1375:660#0/1
GGCATTTCATGAAGGACAAGTTAAATTCATTATTTTT
+HWI-EAS443:3:52:1375:660#0/1
`^aaaabababab_aaabb```¥_`a```aa`_baaaaa[a
@HWI-EAS443:3:52:357:683#0/1
GGACAAGTTAAATTCATTATTTTTGCCGTCTGAGTTCTTC
+HWI-EAS443:3:52:357:683#0/1
`WX__^a^^__Yaa[]_`X_^]Y_^`V]]_]`WYZ^]X
@HWI-EAS443:3:52:643:1880#0/1
GACAAGTTAAATTCATTATTTTTGCCGTCTGAGTTCTCA
+HWI-EAS443:3:52:643:1880#0/1
^b_X__[[]]`aR]¥`[L[XS`_[]]U_¥a¥WQX``¥[_`
@HWI-EAS443:3:52:677:1468#0/1
GTAAATTCATTATTTTTGCCGTCTGAGTTCTCAATGGT
+HWI-EAS443:3:52:677:1468#0/1
`_bbaaba`abaaaba¥aaa¥a[_ab_^_`aaaa`aa^R
@HWI-EAS443:3:52:735:1009#0/1
GGCATTTCATGAAGGACAAGTTAAATTCATTATTTTT

+HWI-EAS443:3:52:735:1009#0/1
abb`baaaaabaa^^`a^T`a[b^`a]a`a`_aa_aaa``
@HWI-EAS443:3:53:50:643#0/1
ATTTTTTTCATGAAGGACAAGTTAAATTCATTATTTTTGCC
+HWI-EAS443:3:53:50:643#0/1
abbb`_^a^U_aab`¥`^a^a`__a`_]a`_a`_`_a`_T
@HWI-EAS443:3:54:1056:646#0/1
GCATTTTTTTCATGAAGGACAAGTTAAATTCATTATTTTTG
+HWI-EAS443:3:54:1056:646#0/1
aa`aaaaaa[aaa_]aa]_^_a^`^]a`^^a^_a``__^
@HWI-EAS443:3:54:131:1994#0/1
GACAAGTTAAATTCATTATTTTTGCCGTCTGAGTTCTTCA
+HWI-EAS443:3:54:131:1994#0/1
KZa^TXaba`¥`__b`Zabbabb`a]aVabaa¥Z^^]^_a
@HWI-EAS443:3:54:1551:1467#0/1
GACAAGTTAAATTCATTATTTTTGCCGTCTGAGTTCTTCA
+HWI-EAS443:3:54:1551:1467#0/1
a]W`^]M¥`aL^_W`]__YW[[aTLJ¥MFTa^a¥L]_^[[
@HWI-EAS443:3:54:519:306#0/1
GTTAAATTCATTATTTTTGCCGTCTGAGTTCTTCAATGGT
+HWI-EAS443:3:54:519:306#0/1
a_aa`_ba^aaaaaa```_]a]^a`_a[`^`_]_`^`_Y
@HWI-EAS443:3:54:656:1419#0/1
GTTAAATTCATTATTTTTGCCGTCTGAGTTCTTCAATGGT
+HWI-EAS443:3:54:656:1419#0/1
`[_WUUY^¥a[]Q]aa`QQQ_ZK¥X[QXY_UZ^PQWWUPQ
@HWI-EAS443:3:54:708:1476#0/1
GGCATTTTTTTCATGAAGGACAAGTTAAATTCATTATTTTT
+HWI-EAS443:3:54:708:1476#0/1
a^a]bbaaaaa`_]_W_a`]^¥aZa_a`a`__`aaa`````
@HWI-EAS443:3:55:243:695#0/1
GCATTTTTTTCATGAAGGACAAGTTAAATTCATTATTTTTG
+HWI-EAS443:3:55:243:695#0/1
a`a`Zaaa`_`aa`_a`^`_Qa^`_¥]a`__`_]__`^`__
@HWI-EAS443:3:55:538:1377#0/1
GGCATTTTTTTCATGAAGGACAAGTTAAATTCATTATTTTT
+HWI-EAS443:3:55:538:1377#0/1
^aa^a`¥```aa^¥aa`a]a_]^[`_¥UZb`_`aaaaa]`
@HWI-EAS443:3:56:1529:1751#0/1
GGCATTTTTTTCATGAAGGACAAGTTAAATTCATTATTTTT
+HWI-EAS443:3:56:1529:1751#0/1
abaabbbbbaaa`bbaabbaS`ab`aaaaab^`aaaaaaaa
@HWI-EAS443:3:56:1709:1542#0/1
GCATTTTTTTCATGAAGGACAAGTTAAATTCATTATTTTTG
+HWI-EAS443:3:56:1709:1542#0/1
aX[_aa`a^H]^`_^`]VQS^_X_]`^`YTX`__`^a`_V
@HWI-EAS443:3:56:1764:138#0/1
GGCATTTTTTTCATGAAGGACAAGTTAAATTCATTATTTTT
+HWI-EAS443:3:56:1764:138#0/1
X__WYW_Y_¥[Y¥_W¥¥^TV^`¥QZ_U_]_RZa]Z`````[

@HWI-EAS443:3:56:666:1037#0/1
AAGTTAAATTCATTATTTTTGCCGTCTGAGTTCTTCAATG
+HWI-EAS443:3:56:666:1037#0/1
^^aabb`bb`aabbabbaa]`a`aababaaaaaa^a`
@HWI-EAS443:3:56:996:2009#0/1
GGACAAGTTAAATTCATTATTTTTGCCGTCTGAGTTCTTC
+HWI-EAS443:3:56:996:2009#0/1
aba`aab_aaaaa`a`_aa`aba_]¥a^_aa``_^_a`¥
@HWI-EAS443:3:57:1120:544#0/1
GGACAAGTTAAATTCATTATTTTTGCCGTCTGAGTTCTTC
+HWI-EAS443:3:57:1120:544#0/1
aa`aaaaabababaaaababab^aa`a_aaaaa]a^a`
@HWI-EAS443:3:57:1217:200#0/1
CATTTTTTCATGAAGGACAAGTTAAATTCATTATTTTTGC
+HWI-EAS443:3:57:1217:200#0/1
aabbabbabbbaabbaba`baba_aaaaabbabbabaaa
@HWI-EAS443:3:57:529:561#0/1
CATTTTTTCATGAAGGACAAGTTAAATTCATTATTTTTGC
+HWI-EAS443:3:57:529:561#0/1
abbbbaa`babaaa`aa`aYaaaaa^`aaaba_a`W
@HWI-EAS443:3:57:823:1849#0/1
GGCATTTTTTTCATGAAGGACAAGTTAAATTCATTATTTTT
+HWI-EAS443:3:57:823:1849#0/1
Y`a`^`b¥a``abb`¥PX`X`¥]^bb``]]LZbb^aZ
@HWI-EAS443:3:58:1214:867#0/1
GGCATTTTTTTCATGAAGGACAAGTTAAATTCATTATTTTT
+HWI-EAS443:3:58:1214:867#0/1
a`^_aabaaaX_a_`Y¥`^^^`]^_]^__^W`_Y`_^_
@HWI-EAS443:3:58:214:390#0/1
GTTAAATTCATTATTTTTGCCGTCTGAGTTCTTCAATGGT
+HWI-EAS443:3:58:214:390#0/1
a_aaa_aa`aaaa_`_]`U_^_a][_W`¥_^]Y__^[
@HWI-EAS443:3:58:79:1320#0/1
GGACAAGTTAAATTCATTATTTTTGCCGTCTGAGTTCTTC
+HWI-EAS443:3:58:79:1320#0/1
`[Va]WWW]¥[YZ]Wa^Q¥][[¥^aYV^____X^S[YY__
@HWI-EAS443:3:59:1247:1955#0/1
TTCATGAAGGACAAGTTAAATTCATTATTTTTGCCGTCTG
+HWI-EAS443:3:59:1247:1955#0/1
^]_babbbbaa`bab]`aaa`aaaaabaab_aaP[[[a]
@HWI-EAS443:3:59:667:359#0/1
GTTAAATTCATTATTTTTGCCGTCTGAGTTCTTCAATGGT
+HWI-EAS443:3:59:667:359#0/1
aabaaaba`abbaaaabaaa^`aaaa^`a`__`Y]``[
@HWI-EAS443:3:59:863:270#0/1
GGCATTTTTTTCATGAAGGACAAGTTAAATTCATTATTTTT
+HWI-EAS443:3:59:863:270#0/1
aa`]``abaa_``^ab`^^`¥Q^^`_^``_^``^UX`^^
@HWI-EAS443:3:5:1239:1807#0/1
GGACAAGTTAAATTCATTATTTTTGCCGTCTGAGTTCTTC

+HWI-EAS443:3:5:1239:1807#0/1
¥`_PR¥``a``^babab¥_`b¥Y]S^_abba[babaU
@HWI-EAS443:3:60:1725:1861#0/1
ATGAAGGACAAGTTAAATTCATTATTTTTGCCGTCTGAGT
+HWI-EAS443:3:60:1725:1861#0/1
a]aZ_aaL_TVYZ`_][_]^¥T[_^`_^_HUZMM_] ^V
@HWI-EAS443:3:60:413:208#0/1
TTTCATGAAGGACAAGTTAAATTCATTATTTTTGCCGTCT
+HWI-EAS443:3:60:413:208#0/1
aa`_^aa^aa`_Q^a__[^`^`Ya^]``¥^_[Z^W]^
@HWI-EAS443:3:61:1585:317#0/1
GACAAGTTAAATTCATTATTTTTGCCGTCTGAGTTCTTCA
+HWI-EAS443:3:61:1585:317#0/1
aaa___aa`_`aa_^a^`aa^_a``]]_``_][^Y^^HU
@HWI-EAS443:3:61:278:1834#0/1
CATGAAGGACAAGTTAAATTCATTATTTTTGCCGTCTGAG
+HWI-EAS443:3:61:278:1834#0/1
abbbbbbbbabbaabbbbaa`S]a^baaaaabZa^^`____`
@HWI-EAS443:3:61:447:466#0/1
GCATTTTTTCATGAAGGACAAGTTAAATTCATTATTTTTG
+HWI-EAS443:3:61:447:466#0/1
a_T¥]S[SU]]STSU`VTWSXYVUQPROY]Y]TVVYWZ
@HWI-EAS443:3:61:506:1037#0/1
CATTTTTTCATGAAGGACAAGTTAAATTCATTATTTTTGC
+HWI-EAS443:3:61:506:1037#0/1
aababbbbbbabbaabbbbabaa¥[`a`ba]aaa_a_UY
@HWI-EAS443:3:63:167:877#0/1
GGCATTTTTTCATGAAGGACAAGTTAAATTCATTATTTTT
+HWI-EAS443:3:63:167:877#0/1
`babaabaaaaa]aaa__`_a`a[^`_a```a`a_a_^
@HWI-EAS443:3:63:332:38#0/1
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+HWI-EAS443:3:63:332:38#0/1
abb]bbbbabaaab__aa````baaaYaa`__a`_a`a__
@HWI-EAS443:3:63:346:868#0/1
GGACAAGTTAAATTCATTATTTTTGCCGTCTGAGTTCTTC
+HWI-EAS443:3:63:346:868#0/1
`^bba`bbabbaaaa`aaaaaa`_`aa__aaaa^`ba^b
@HWI-EAS443:3:63:586:1096#0/1
GGACAAGTTAAATTCATTATTTTTGCCGTCTGAGTTCTTC
+HWI-EAS443:3:63:586:1096#0/1
`aba`T`abaVbb`a^b`[abaaa`bb`¥aaa``]__aaa
@HWI-EAS443:3:64:701:140#0/1
GTTAAATTCATTATTTTTGCCGTCTGAGTTCTTCAATGGT
+HWI-EAS443:3:64:701:140#0/1
aa``aaaa_¥`_¥`_```_[^_]¥^a]^[][_^]W[]^Z
@HWI-EAS443:3:65:1359:918#0/1
AGGACAAGTTAAATTCATTATTTTTGCCGTCTGAGTTCTT
+HWI-EAS443:3:65:1359:918#0/1
abaaa^```aaaaaaaaaaaaaaaa`a`aaa^a^aZa`

@HWI-EAS443:3:65:197:456#0/1
GGACAAGTTAAATTCATTATTTTTGCCGTCTGAGTTCTTC
+HWI-EAS443:3:65:197:456#0/1
abbaaaaaaaaa`abbaabbaa`aaab_aaaab[`aaa_
@HWI-EAS443:3:65:600:503#0/1
ATGAAGGACAAGTTAAATTCATTATTTTTGCCGTCTGAGT
+HWI-EAS443:3:65:600:503#0/1
aaaaa`]¥a`aaZaaba`^_a`X`aaaY[aa_b[]a`T`U
@HWI-EAS443:3:65:825:570#0/1
GAAGGACAAGTTAAATTCATTATTTTTGCCGTCTGAGTTC
+HWI-EAS443:3:65:825:570#0/1
a¥bY[V_Z]b_aa]aaab__aaaaaa^aa`_Y^^`N_U]¥
@HWI-EAS443:3:66:1000:1447#0/1
GGACAAGTTAAATTCATTATTTTTGCCGTCTGAGTTCTTC
+HWI-EAS443:3:66:1000:1447#0/1
aaaa^X`_aaaaa`a_a`aaa_a`_a`a`_`a__^^`_^^
@HWI-EAS443:3:66:1286:24#0/1
ATTTTTTCATGAAGGACAAGTTAAATTCATTATTTTTGCC
+HWI-EAS443:3:66:1286:24#0/1
abbbab`aba``aba_^a¥b__a`^^VHZbbabaaaa_[_
@HWI-EAS443:3:66:1468:1495#0/1
GGACAAGTTAAATTCATTATTTTTGCCGTCTGAGTTCTTC
+HWI-EAS443:3:66:1468:1495#0/1
_SQWY[(`^PX_a^)]_¥__[_][^IZ¥SWS`]SZX][ZW
@HWI-EAS443:3:67:1127:625#0/1
CATTTTTTCATGAAGGACAAGTTAAATTCATTATTTTTGC
+HWI-EAS443:3:67:1127:625#0/1
a^`[_Z]a__a[`_X]]aa__a¥`_a_]^^`]`aaa`_U
@HWI-EAS443:3:67:1249:202#0/1
TTGAAGAACTCAGACGGCAAAAATAATGAATTTAACTTGT
+HWI-EAS443:3:67:1249:202#0/1
Xbba_abaaaaaZJ_ba`ba_abbbbbbaaa_a_a]aa__
@HWI-EAS443:3:68:112:1247#0/1
GGACAAGTTAAATTCATTATTTTTGCCGTCTGAGTTCTTC
+HWI-EAS443:3:68:112:1247#0/1
bbb`X`abbbabbaaaaabbbabaaa^`aab``aaaab
@HWI-EAS443:3:68:1395:1434#0/1
GTTAAATTCATTATTTTTGCCGTCTGAGTTCTTCAATGGT
+HWI-EAS443:3:68:1395:1434#0/1
a]_R^X`___aYU^_[^I]UU^[¥]YZSIYYZ¥YW^XUWI
@HWI-EAS443:3:68:1690:135#0/1
GGACAAGTTAAATTCATTATTTTTGCCGTCTGAGTTCTTC
+HWI-EAS443:3:68:1690:135#0/1
aa`]YZHMZa]aaaaaaaaaaaa`^^`_`^___X`¥_Y`_V
@HWI-EAS443:3:68:1781:679#0/1
GGCATTTTTTTCATGAAGGACAAGTTAAATTCATTATTTTT
+HWI-EAS443:3:68:1781:679#0/1
aa]abaab`_`_`aaaaaY^^`_`_X`]aa`]`_`_`a`_`
@HWI-EAS443:3:68:405:1583#0/1
ATGAAGGACAAGTTAAATTCATTATTTTTGCCGTCTGAGT

+HWI-EAS443:3:68:405:1583#0/1
`¥]VYW¥U_^_aQa]NZ]a`^)`aaaaaaba]^a` `a`V
@HWI-EAS443:3:68:778:1012#0/1
GTTAAATTCATTATTTTTGCCGTCTGAGTTCTTCAATGGT
+HWI-EAS443:3:68:778:1012#0/1
a`aZ^_aaa`a`[aaa`a_[_^`_`^aZ^__`_a[___[Y
@HWI-EAS443:3:68:840:1430#0/1
GGCATTMTTTCATGAAGGACAAGTTAAATTCATTATTTTT
+HWI-EAS443:3:68:840:1430#0/1
a_`[abbba`bb]b¥[^`aaa`S]ab`aaa`a`[^``a`a
@HWI-EAS443:3:69:1053:1713#0/1
GGACAAGTTAAATTCATTATTTTTGCCGTCTGAGTTCTTC
+HWI-EAS443:3:69:1053:1713#0/1
Y[a¥T` `Kbb[Y¥b^^a`ba^ba]aa^`_aaaab^a`aa_
@HWI-EAS443:3:69:1789:894#0/1
GGCATTMTTTCATGAAGGACAAGTTAAATTCATTATTTTT
+HWI-EAS443:3:69:1789:894#0/1
aaa`aaaaaa`aa`a`b`Y^^Z`¥a___`a]_a^`_`____
@HWI-EAS443:3:69:292:1854#0/1
GCATTTTTTCATGAAGGACAAGTTAAATTCATTATTTTTG
+HWI-EAS443:3:69:292:1854#0/1
aY_W]¥]¥]Za¥T_a`¥]Y]__RZ`¥WY]a^^]__]¥^]_
@HWI-EAS443:3:69:842:654#0/1
CATTTTTTCATGAAGGACAAGTTAAATTCATTATTTTTGC
+HWI-EAS443:3:69:842:654#0/1
aaabbbbbbabababaaaa_b_bba`ba`]aaabb`aaaa
@HWI-EAS443:3:69:879:1081#0/1
GGACAAGTTAAATTCATTATTTTTGCCGTCTGAGTTCTTC
+HWI-EAS443:3:69:879:1081#0/1
^)`YSW¥[a^[0`a]]a^`^a^`^`^`]]` `¥V_X¥_Y[^
@HWI-EAS443:3:69:929:1429#0/1
GACAAGTTAAATTCATTATTTTTGCCGTCTGAGTTCTTCA
+HWI-EAS443:3:69:929:1429#0/1
a]aW0[[aaaaaaa`^aa[F[_Y`a_]_[X]][_a^¥^a
@HWI-EAS443:3:6:1146:1819#0/1
GTTAAATTCATTATTTTTGCCGTCTGAGTTCTTCAATGGT
+HWI-EAS443:3:6:1146:1819#0/1
aa^¥IR¥VV]Z][]¥^___`^`USX_Z`PQW^VZ_X[¥YR
@HWI-EAS443:3:6:77:1764#0/1
GGCATTMTTTCATGAAGGACAAGTTAAATTCATTATTTTT
+HWI-EAS443:3:6:77:1764#0/1
^baabbbbbbabbbbb`abaababaaabbbabababaaaa
@HWI-EAS443:3:6:945:1633#0/1
CAAGTTAAATTCATTATTTTTGCCGTCTGAGTTCTTCAAT
+HWI-EAS443:3:6:945:1633#0/1
aa`b`baa`ab_bb`^bb`aa`a[b`^aaa`^``a_aa]_
@HWI-EAS443:3:71:1036:1609#0/1
GAAGGACAAGTTAAATTCATTATTTTTGCCGTCTGAGTTTC
+HWI-EAS443:3:71:1036:1609#0/1
a_aa_a`baW¥Y```aaaaaaa`a`_^b`_`a````_V``

@HWI-EAS443:3:71:1256:695#0/1
GACAAGTTAAATTCATTATTTTTGCCGTCTGAGTTCTTCA
+HWI-EAS443:3:71:1256:695#0/1
a[aaVa[_JM[XOVZV¥Q¥Q`WNLVWL[Z^^Y¥P[R[XR
@HWI-EAS443:3:71:1264:1670#0/1
GGACAAGTTAAATTCATTATTTTTGCCGTCTGAGTTCTTC
+HWI-EAS443:3:71:1264:1670#0/1
aa¥D[YW[a`¥NOQR`a]Y]YW[UT¥PPXFW_]TJLOTV
@HWI-EAS443:3:71:1305:1793#0/1
TGAAGGACAAGTTAAATTCATTATTTTTGCCGTCTGAGTT
+HWI-EAS443:3:71:1305:1793#0/1
aaaaa`aaa^a_aaa_a`_aaa_aaa^b_dWa]aa¥^^]¥
@HWI-EAS443:3:71:768:501#0/1
AGGACAAGTTAAATTCATTATTTTTGCCGTCTGAGTTCTT
+HWI-EAS443:3:71:768:501#0/1
^¥RX_R^RaYLUaaZT`^Z`_aW_a_[`X`_ZL]VTMSO
@HWI-EAS443:3:72:1245:168#0/1
GTTAAATTCATTATTTTTGCCGTCTGAGTTCTTCAATGGT
+HWI-EAS443:3:72:1245:168#0/1
a````aaYaa`_a`a_a_Y_aZ]_`^`[^[[^Y^[^_^[
@HWI-EAS443:3:72:394:796#0/1
CATTTTTTCATGAAGGACAAGTTAAATTCATTATTTTTGC
+HWI-EAS443:3:72:394:796#0/1
_`bba_WZaaa`¥J¥^V_a_a_a_Z_aZU]a[H[aa_a`Z
@HWI-EAS443:3:72:759:329#0/1
GACAAGTTAAATTCATTATTTTTGCCGTCTGAGTTCTTCA
+HWI-EAS443:3:72:759:329#0/1
`a``]a_a`aaaa`ba^aaa_aa`]a`^_a__U`[a_¥a
@HWI-EAS443:3:72:822:1663#0/1
GACAAGTTAAATTCATTATTTTTGCCGTCTGAGTTCTTCA
+HWI-EAS443:3:72:822:1663#0/1
_bbabbabb`¥babbbbaabaabaaba`bbbaaa`aa`aa
@HWI-EAS443:3:73:1704:1551#0/1
GGCATTTTTTTCATGAAGGACAAGTTAAATTCATTATTTTT
+HWI-EAS443:3:73:1704:1551#0/1
aa_``ba``a]_`a^^`aW]¥¥a]_____`[X_YZ_`¥^_
@HWI-EAS443:3:73:692:43#0/1
GGCATTTTTTTCATGAAGGACAAGTTAAATTCATTATTTTT
+HWI-EAS443:3:73:692:43#0/1
a]R^¥`TW[`]^[a[]]^[YSSYSUSUX]ZXY^W[_]VUZ
@HWI-EAS443:3:73:842:446#0/1
AGTTAAATTCATTATTTTTGCCGTCTGAGTTCTTCAATGG
+HWI-EAS443:3:73:842:446#0/1
```baa^abb^]babbbbaaab^Y\_baab\_aaaaaa\_aaZ  
@HWI-EAS443:3:73:933:536#0/1  
GGCATTTTTTTCATGAAGGACAAGTTAAATTCATTATTTTT  
+HWI-EAS443:3:73:933:536#0/1  
aaa^aabbbbaaaaaaba`\_`\_a\_a``aaa\_abaaa``aa  
@HWI-EAS443:3:74:1095:18#0/1  
GACAAGTTAAATTCATTATTTTTGCCGTCTGAGTTCTTCA

+HWI-EAS443:3:74:1095:18#0/1  
`baWa`baaaaab`aa`aaa^aaa`b\_\_bb`b``a\_]\_  
@HWI-EAS443:3:74:1731:569#0/1  
TGAAGGACAAGTTAAATTCATTATTTTTGCCGTCTGAGTT  
+HWI-EAS443:3:74:1731:569#0/1  
aaaaaaaaabaaaaabaabaabaaaa`a\_aaaab`a^a  
@HWI-EAS443:3:74:413:755#0/1  
GGCATTTCATGAAGGACAAGTTAAATTCATTATTTTT  
+HWI-EAS443:3:74:413:755#0/1  
ababbbabbabaabaaaaaaa`a`aaa\_aaaabaaaaaaa  
@HWI-EAS443:3:74:712:1942#0/1  
GGCATTTCATGAAGGACAAGTTAAATTCATTATTTTT  
+HWI-EAS443:3:74:712:1942#0/1  
abaXS`^¥a`bbb`ba¥aaa`W\_^a`XLa`\_b[[a`aa`  
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+HWI-EAS443:3:75:1015:1137#0/1  
aaa`b[aabaaa`aaaabaa`aa`a[aaaa`a\_aaa\_`  
@HWI-EAS443:3:75:1024:168#0/1  
GACAAGTTAAATTCATTATTTTTGCCGTCTGAGTTCTTCA  
+HWI-EAS443:3:75:1024:168#0/1  
^`\_aaba\_`a`bbaaabab^`aa^¥^b`\_bbab^`aa^a  
@HWI-EAS443:3:75:1381:1382#0/1  
GGCATTTCATGAAGGACAAGTTAAATTCATTATTTTT  
+HWI-EAS443:3:75:1381:1382#0/1  
YS]POW`WSQ]X`\_SS]]\_FIUT`XM[a`R^`V^Ia\_`]  
@HWI-EAS443:3:75:1454:971#0/1  
TGAAGGACAAGTTAAATTCATTATTTTTGCCGTCTGAGTT  
+HWI-EAS443:3:75:1454:971#0/1  
Q\_b^bbbab]\_abbaa\_b`abbbb`¥\_YY`aU`]b[a`a  
@HWI-EAS443:3:75:1579:1008#0/1  
GTTAAATTCATTATTTTTGCCGTCTGAGTTCTTCAATGGT  
+HWI-EAS443:3:75:1579:1008#0/1  
`^VY`a\_QU¥Z\_aa`[\_Z]ZWX^a]V^Y`^a^^¥^Y¥`P  
@HWI-EAS443:3:75:1638:1951#0/1  
GTTAAATTCATTATTTTTGCCGTCTGAGTTCTTCAATGGT  
+HWI-EAS443:3:75:1638:1951#0/1  
abba[^baba\_¥baab\_b`bab\_`aa`b]aabaZ`]aaa[  
@HWI-EAS443:3:75:1641:515#0/1  
CATTTTTTCATGAAGGACAAGTTAAATTCATTATTTTTGC  
+HWI-EAS443:3:75:1641:515#0/1  
abbbbbbbbabbbbabbaabaabbbbabbbbbbba  
@HWI-EAS443:3:76:74:1412#0/1  
GACAAGTTAAATTCATTATTTTTGCCGTCTGAGTTCTTCA  
+HWI-EAS443:3:76:74:1412#0/1  
a`a¥]\_H\_`S\_^Y^`\_¥]^\_^Y]XTT\_Y\_S¥Y[[[^]Z  
@HWI-EAS443:3:77:1223:791#0/1  
GTTAAATTCATTATTTTTGCCGTCTGAGTTCTTCAATGGT  
+HWI-EAS443:3:77:1223:791#0/1  
aaaa`abaaaba\_aaaaaa\_\_a]^a\_\_a]\_^`\_Y``aa\_]



@HWI-EAS443:3:77:1534:1897#0/1  
CATTTCATGAAGGACAAGTTAAATTCATTATTTTGC  
+HWI-EAS443:3:77:1534:1897#0/1  
aaaabbbbaaa`bbaaa`aa`aaaabaaaaaaaaaaaaaW  
@HWI-EAS443:3:77:406:1851#0/1  
GGCATTTCATGAAGGACAAGTTAAATTCATTATTTT  
+HWI-EAS443:3:77:406:1851#0/1  
a]¥`Z\_`Z¥^aYYaYUYZNVWVQPRZ`\_\_`¥`\_\_a[N[[  
@HWI-EAS443:3:77:452:953#0/1  
GGCATTTCATGAAGGACAAGTTAAATTCATTATTTT  
+HWI-EAS443:3:77:452:953#0/1  
aab`aabababaaaaaaaa`aa\_\_\_a`aaaa```aaa`a\_  
@HWI-EAS443:3:77:792:836#0/1  
GACAAGTTAAATTCATTATTTTGCCTGAGTTCTTCA  
+HWI-EAS443:3:77:792:836#0/1  
aabaab`a`baaaaabaaaaaaaa`a\_a\_aaa\_a]`aa\_aa  
@HWI-EAS443:3:78:1000:1986#0/1  
GTTAAATTCATTATTTTGCCTGAGTTCTTCAATGGT  
+HWI-EAS443:3:78:1000:1986#0/1  
^Zb``abbabaaaabaaba\_a````\_a\_aab`a`a^a`Y  
@HWI-EAS443:3:78:1280:804#0/1  
ATTTTCATGAAGGACAAGTTAAATTCATTATTTTGC  
+HWI-EAS443:3:78:1280:804#0/1  
abba`b`aa^Taa^`Sa\_\_\_T`a\_\_\_a`[aa`a^¥RR  
@HWI-EAS443:3:78:537:754#0/1  
ATGAAGGACAAGTTAAATTCATTATTTTGCCTGAGT  
+HWI-EAS443:3:78:537:754#0/1  
aaa`aa\_a`]a^`a`a\_a``\_\_`\_\_^`\_^\_]Z\_\_]\_  
@HWI-EAS443:3:78:785:1116#0/1  
GTTAAATTCATTATTTTGCCTGAGTTCTTCAATGGT  
+HWI-EAS443:3:78:785:1116#0/1  
^P]^TX`ZG[aa`a\_a`a\_aX^`\_[a^[¥`^[Z^]^X  
@HWI-EAS443:3:79:69:1380#0/1  
GGCATTTCATGAAGGACAAGTTAAATTCATTATTTT  
+HWI-EAS443:3:79:69:1380#0/1  
`a\_SS`aaa\_V]VYQZ``\_\_SS[I`XF[T¥a`PTM^```U  
@HWI-EAS443:3:79:759:1444#0/1  
CAAGTTAAATTCATTATTTTGCCTGAGTTCTTCAAT  
+HWI-EAS443:3:79:759:1444#0/1  
aabaabba¥bbbabbababaa`bbb`abbaa`a`b`aa`a  
@HWI-EAS443:3:7:1264:1967#0/1  
TTTTTCATGAAGGACAAGTTAAATTCATTATTTTGC  
+HWI-EAS443:3:7:1264:1967#0/1  
¥`aa^]¥W\_aMS¥\_Y`[aaXa¥^Y^[¥aZ`a]\_`RT]^¥  
@HWI-EAS443:3:7:1279:755#0/1  
TGAAGGACAAGTTAAATTCATTATTTTGCCTGAGT  
+HWI-EAS443:3:7:1279:755#0/1  
`b`[^Y^]^¥YSbaaba`aa^aVY`W]b^PJ\_a\_J\_]aaNN  
@HWI-EAS443:3:7:172:426#0/1  
TTTTTCATGAAGGACAAGTTAAATTCATTATTTTGC

+HWI-EAS443:3:7:172:426#0/1  
abbabbbaabbabbaa`babaaaba`ab`aaaa`a`\_b  
@HWI-EAS443:3:7:388:289#0/1  
GGCATTTCATGAAGGACAAGTTAAATTCATTATTTT  
+HWI-EAS443:3:7:388:289#0/1  
a[¥R`\_\_a\_\_\_\_]`VP[W¥[]Y\_Y\_W]\_\_¥]]^][^S]Y  
@HWI-EAS443:3:7:612:1399#0/1  
GTTAAATTCATTATTTTGGCGTCTGAGTTCTTCAATGGT  
+HWI-EAS443:3:7:612:1399#0/1  
a\_\_a\_`aa^aa`aaa\_`¥\_^R]PPYRX\_[[X`ZP\_VV^BB  
@HWI-EAS443:3:80:160:171#0/1  
CATTTCATGAAGGACAAGTTAAATTCATTATTTTGC  
+HWI-EAS443:3:80:160:171#0/1  
UU`a`a`\_`bb\_P¥W\_]`a\_a[HR]b`abba`¥Z`aba  
@HWI-EAS443:3:81:1159:1840#0/1  
GACAAGTTAAATTCATTATTTTGGCGTCTGAGTTCTTCA  
+HWI-EAS443:3:81:1159:1840#0/1  
ab`ZY¥a`^Ybbaa`]]a\_a\_\_b`bU[^a\_aZ[X`XY`  
@HWI-EAS443:3:81:1717:1440#0/1  
GACAAGTTAAATTCATTATTTTGGCGTCTGAGTTCTTCA  
+HWI-EAS443:3:81:1717:1440#0/1  
abX`b^aab\_aaaaabaaaaa`\_¥a\_\_`\_\_a^a]aa]^  
@HWI-EAS443:3:81:500:1135#0/1  
TTTTTCATGAAGGACAAGTTAAATTCATTATTTTGGCG  
+HWI-EAS443:3:81:500:1135#0/1  
ababbaa\_]\_aaaaaaaa\_aaaa\_a`^^^a`a\_aa\_`  
@HWI-EAS443:3:82:168:76#0/1  
GGCATTTCATGAAGGACAAGTTAAATTCATTATTTT  
+HWI-EAS443:3:82:168:76#0/1  
ab[\_[\_U^a¥Ra^RR`^NY`L`N\_`\_\_\_\_^¥^\_\_WYV¥\_]`  
@HWI-EAS443:3:82:337:1061#0/1  
GGCATTTCATGAAGGACAAGTTAAATTCATTATTTT  
+HWI-EAS443:3:82:337:1061#0/1  
aa^U\_\_XY`[\_bba`X`b[]`^\_F¥`\_`^H\_]a`\_a\_\_\_\_`  
@HWI-EAS443:3:82:344:165#0/1  
TGAAGGACAAGTTAAATTCATTATTTTGGCGTCTGAGTT  
+HWI-EAS443:3:82:344:165#0/1  
aba^`V\_a^¥a^`aaaab`aaaaa`b[X`a^a¥`  
@HWI-EAS443:3:83:584:276#0/1  
CATTTCATGAAGGACAAGTTAAATTCATTATTTTGC  
+HWI-EAS443:3:83:584:276#0/1  
^]a`b\_a`a`a`Xaaaa`\_`\_aa\_]ababaa¥`b`  
@HWI-EAS443:3:84:1087:488#0/1  
GACAAGTTAAATTCATTATTTTGGCGTCTGAGTTCTTCA  
+HWI-EAS443:3:84:1087:488#0/1  
aaaa`b^baaab¥\_ba`bbaaba`\_a`\_aa`a\_a]aa`\_`  
@HWI-EAS443:3:85:1432:901#0/1  
GGCATTTCATGAAGGACAAGTTAAATTCATTATTTT  
+HWI-EAS443:3:85:1432:901#0/1  
aa^`aaaa`T¥aaa`a`]YX¥a]a^^]a\_]`\_`a\_\_\_\_^

@HWI-EAS443:3:86:1371:408#0/1  
GTTAAATTCATTATTTTTGCCGTCTGAGTTCTTCAATGGT  
+HWI-EAS443:3:86:1371:408#0/1  
^UR`WOWOX]ZHUbbb¥a]TZaaV^]a`M¥XYZI\_VQNPG  
@HWI-EAS443:3:86:617:819#0/1  
GGCATTATTTTCATGAAGGACAAGTTAAATTCATTATTTTT  
+HWI-EAS443:3:86:617:819#0/1  
`baaaaaaaaaa\_a`^aa``aaa]^\_][a^`a``\_a``^  
@HWI-EAS443:3:86:772:962#0/1  
TTAAATTCATTATTTTTGCCGTCTGAGTTCTTCAATGGTG  
+HWI-EAS443:3:86:772:962#0/1  
`a^]a`^¥a\_\_`ba^a`]^`^`a`\_]`¥^ab`][Y\_]P^  
@HWI-EAS443:3:86:817:685#0/1  
GGCATTATTTTCATGAAGGACAAGTTAAATTCATTATTTTT  
+HWI-EAS443:3:86:817:685#0/1  
\_¥bb¥`\_a\_Ybabb`ab`\_bVb^aa[[aabbabaab\_  
@HWI-EAS443:3:87:1493:790#0/1  
GGCATTATTTTCATGAAGGACAAGTTAAATTCATTATTTTT  
+HWI-EAS443:3:87:1493:790#0/1  
`aa`bbab`baaab``aaa``ab\_ba``aaa`ba^a\_aaa  
@HWI-EAS443:3:87:651:47#0/1  
GACAAGTTAAATTCATTATTTTTGCCGTCTGAGTTCTTCA  
+HWI-EAS443:3:87:651:47#0/1  
aaa]\_aaa^Y¥a\_^`\_`\_`aaa^[a^^a\_Va[\_^`\_`¥  
@HWI-EAS443:3:88:359:1637#0/1  
GGACAAGTTAAATTCATTATTTTTGCCGTCTGAGTTCTTC  
+HWI-EAS443:3:88:359:1637#0/1  
\_aSaYZG[a^VR\_[SGWa`^a[WUMM`^XM^TWRR[\_a]]  
@HWI-EAS443:3:88:67:838#0/1  
AAGTTAAATTCATTATTTTTGCCGTCTGAGTTCTTCAATG  
+HWI-EAS443:3:88:67:838#0/1  
V¥^bb`T]\_`aba`babaabVa[^^abaUaa```X^a¥  
@HWI-EAS443:3:88:685:941#0/1  
GGACAAGTTAAATTCATTATTTTTGCCGTCTGAGTTCTTC  
+HWI-EAS443:3:88:685:941#0/1  
aaab][`a`\_Q`\_a`aa¥`aaa`\_a]a]a`a\_a]\_\_`\_`  
@HWI-EAS443:3:89:1216:1597#0/1  
GGACAAGTTAAATTCATTATTTTTGCCGTCTGAGTTCTTC  
+HWI-EAS443:3:89:1216:1597#0/1  
`JR^[Q]N`¥[Y^\_\_\_\_]\_`SY\_WMMW[]\_¥VIaS[S¥GO  
@HWI-EAS443:3:89:1347:239#0/1  
GTTAAATTCATTATTTTTGCCGTCTGAGTTCTTCAATGGT  
+HWI-EAS443:3:89:1347:239#0/1  
YYY`\_Q]QPb`\_W¥`aaabY0^Y\_b¥Yb[YQ[`\_QEWaaQ  
@HWI-EAS443:3:89:159:1267#0/1  
GGCATTATTTTCATGAAGGACAAGTTAAATTCATTATTTTT  
+HWI-EAS443:3:89:159:1267#0/1  
aa`^`XaY[OXSSHT¥NW[¥¥]LNXQY¥WV[[Y[RHRPS  
@HWI-EAS443:3:8:1080:2010#0/1  
CATTATTTTCATGAAGGACAAGTTAAATTCATTATTTTTGC

+HWI-EAS443:3:8:1080:2010#0/1  
¥`¥bab`a`bbbabb`abab`bb^Ybaaaab`^^`\_`ba  
@HWI-EAS443:3:8:1742:442#0/1  
GGCATTTCATGAAGGACAAGTTAAATTCATTATTTTT  
+HWI-EAS443:3:8:1742:442#0/1  
ab`bbbbbb`aabaab`a`\_a\_aa`¥aaU`a`aaaa  
@HWI-EAS443:3:8:283:1359#0/1  
GGCATTTCATGAAGGACAAGTTAAATTCATTATTTTT  
+HWI-EAS443:3:8:283:1359#0/1  
aaaaaaaaa`a`aaaaa`\_`a^`\_`\_`a¥W`\_¥`\_^¥S]  
@HWI-EAS443:3:8:978:611#0/1  
GGCATTTCATGAAGGACAAGTTAAATTCATTATTTTT  
+HWI-EAS443:3:8:978:611#0/1  
aX¥\_aaa\_aa\_\_¥¥^^aa]W\_]a\_]^\_]`W^`^`[\_`\_]`\_]  
@HWI-EAS443:3:90:1055:1132#0/1  
GACAAGTTAAATTCATTATTTTTGCCGTCTGAGTTCTTCA  
+HWI-EAS443:3:90:1055:1132#0/1  
aa\_¥\_a`a`\_aa\_^a\_aa`a`\_`\_¥`^`\_`a\_a[^`\_]Z  
@HWI-EAS443:3:90:639:516#0/1  
TGAAGGACAAGTTAAATTCATTATTTTTGCCGTCTGAGTT  
+HWI-EAS443:3:90:639:516#0/1  
^J\$W¥`U^\_\_V\$X]Y^aaZ^aYa¥Z]W^¥T]WX`\_\_\_W\_  
@HWI-EAS443:3:90:898:1376#0/1  
GGCATTTCATGAAGGACAAGTTAAATTCATTATTTTT  
+HWI-EAS443:3:90:898:1376#0/1  
aaa^`]¥U``[[]\_Z[aa[[]Y`XV¥PR[\_\_\_^[Y[Y]Y^  
@HWI-EAS443:3:91:462:325#0/1  
ATGAAGGACAAGTTAAATTCATTATTTTTGCCGTCTGAGT  
+HWI-EAS443:3:91:462:325#0/1  
`TO[a`>`]`TUb]¥aZW]a^\_\_`^`\_`^`^¥UY\_YX]`Z` [  
@HWI-EAS443:3:92:1623:613#0/1  
TGAAGGACAAGTTAAATTCATTATTTTTGCCGTCTGAGTT  
+HWI-EAS443:3:92:1623:613#0/1  
aba\_\_^`a\_ababa`aabX^aaaaabaa`aXS]YaV¥\_VZ  
@HWI-EAS443:3:92:607:77#0/1  
GGCATTTCATGAAGGACAAGTTAAATTCATTATTTTT  
+HWI-EAS443:3:92:607:77#0/1  
aa^]aaaaa\_\_]\_]^a`W]\_[a]``[Z\_\_ZZa^^`Z]^\_  
@HWI-EAS443:3:93:319:1089#0/1  
TTTTTCATGAAGGACAAGTTAAATTCATTATTTTTGCCGTC  
+HWI-EAS443:3:93:319:1089#0/1  
aaa^a]¥aaa`¥\_aZQX\_a`\_\_`\_\_a]^a`\_`[\_`\_Y\_VX  
@HWI-EAS443:3:93:744:345#0/1  
TTTTTCATGAAGGACAAGTTAAATTCATTATTTTTGCCGTC  
+HWI-EAS443:3:93:744:345#0/1  
aab^¥`bab\_ba`]a\_]\_aa`\_`a\_\_a`\_`^`a`\_`^`]\_  
@HWI-EAS443:3:93:913:1237#0/1  
GTTAAATTCATTATTTTTGCCGTCTGAGTTCTTCAATGGT  
+HWI-EAS443:3:93:913:1237#0/1  
`\_aaa`b`abaaaabaaaa`aa`aaa^aaaa\_aaaa^^

@HWI-EAS443:3:94:1138:53#0/1  
GACAAGTTAAATTCATTATTTTTGCCGTCTGAGTTCTTCA  
+HWI-EAS443:3:94:1138:53#0/1  
`^\_`bab`aaa[\_aa`b`aaa`^¥a\_\_aa\_a]\_^\_^W^  
@HWI-EAS443:3:94:1170:1106#0/1  
GGCATTTCATGAAGGACAAGTTAAATTCATTATTTTT  
+HWI-EAS443:3:94:1170:1106#0/1  
aaaa`bbb`\_\_`aaa`a]ZP[¥b`\_`\_`a\_¥\_a\_\_aaaa\_  
@HWI-EAS443:3:94:1437:245#0/1  
CATTTCATGAAGGACAAGTTAAATTCATTATTTTTGC  
+HWI-EAS443:3:94:1437:245#0/1  
`abbbbb`\_bbbb`a`a`\_aa\_bba\_ab`abaaab\_\_  
@HWI-EAS443:3:94:1529:811#0/1  
CAAGTTAAATTCATTATTTTTGCCGTCTGAGTTCTTCAAT  
+HWI-EAS443:3:94:1529:811#0/1  
`\_P\_bbaaaa¥`\_`aU`aabba¥L¥aaaaba\_baba`aab  
@HWI-EAS443:3:94:873:236#0/1  
GCATTCATGAAGGACAAGTTAAATTCATTATTTTTG  
+HWI-EAS443:3:94:873:236#0/1  
\_Y`aa¥¥a`P\_`baYb`^]¥`]`¥N]aa\_`a\_YaU`^\_`  
@HWI-EAS443:3:95:1540:416#0/1  
GGACAAGTTAAATTCATTATTTTTGCCGTCTGAGTTCTTC  
+HWI-EAS443:3:95:1540:416#0/1  
`b`a`b[`baSS]Saa\_a¥a]¥`aV\_aSWZ`YbMJL]^S  
@HWI-EAS443:3:95:1670:1771#0/1  
GGACAAGTTAAATTCATTATTTTTGCCGTCTGAGTTCTTC  
+HWI-EAS443:3:95:1670:1771#0/1  
aa`aaa`aaaaba^ab`ababa`bUVb^\_\_a\_b`\_]`a[  
@HWI-EAS443:3:95:82:1512#0/1  
GGCATTTCATGAAGGACAAGTTAAATTCATTATTTTT  
+HWI-EAS443:3:95:82:1512#0/1  
¥bbb\_Tab\_bVaaV^^\_¥ZRab\_aba\_^b`ab`^`ba[a  
@HWI-EAS443:3:97:1120:480#0/1  
GGCATTTCATGAAGGACAAGTTAAATTCATTATTTTT  
+HWI-EAS443:3:97:1120:480#0/1  
aa]\_aabbb`Waaa`aaa\_\_`]b\_a\_\_aa]¥a\_\_a`\_\_\_\_  
@HWI-EAS443:3:97:920:209#0/1  
AGGACAAGTTAAATTCATTATTTTTGCCGTCTGAGTTCTT  
+HWI-EAS443:3:97:920:209#0/1  
aba`aab`aaa`bb\_abaabbaaaaW\_a\_]`a\_a`\_Xa^  
@HWI-EAS443:3:98:1560:576#0/1  
GGCATTTCATGAAGGACAAGTTAAATTCATTATTTTT  
+HWI-EAS443:3:98:1560:576#0/1  
\_aPa\_bbbbaIYbb`bba`\_]P`a]b`bab`aabab¥^\_b  
@HWI-EAS443:3:98:328:1637#0/1  
ATTTTCATGAAGGACAAGTTAAATTCATTATTTTTGCC  
+HWI-EAS443:3:98:328:1637#0/1  
U`b¥bb[bb\_`Wq]`aaa¥baaaa`[^`aaa`a¥SSa^¥¥  
@HWI-EAS443:3:98:480:2032#0/1  
TTTTTCATGAAGGACAAGTTAAATTCATTATTTTTGCCGT

+HWI-EAS443:3:98:480:2032#0/1  
a`aa`¥aa` ]`ba\_aaaa\_aa^`^`^^a\_aa]]^^^\_\_aU  
@HWI-EAS443:3:98:587:2010#0/1  
GGACAAGTTAAATTCATTATTTTTGCCGTCTGAGTTCTTC  
+HWI-EAS443:3:98:587:2010#0/1  
aaab¥]a]aa\_aaa^`Y]ba`WZaX`a[[`aaa\_¥T\_a\_  
@HWI-EAS443:3:98:927:1163#0/1  
AGGACAAGTTAAATTCATTATTTTTGCCGTCTGAGTTCTT  
+HWI-EAS443:3:98:927:1163#0/1  
ab`\_] ]aaUa[`ab^`bb]baa`aaaa`b\_aaa\_bZ` [ `a  
@HWI-EAS443:3:99:388:1834#0/1  
GGACAAGTTAAATTCATTATTTTTGCCGTCTGAGTTCTTC  
+HWI-EAS443:3:99:388:1834#0/1  
`\_YOY]`PQ\_PYQWZYWQP]WPWZ`\_URNLXXV\_QPU^X^  
@HWI-EAS443:3:99:988:74#0/1  
GCATTTTTTTCATGAAGGACAAGTTAAATTCATTATTTTTG  
+HWI-EAS443:3:99:988:74#0/1  
`S^aa]^\_JVS]bZWa]NX^^a]\_T¥W`\_ [ ]\_ ] `^YY\_\_  
@HWI-EAS443:3:9:114:1650#0/1  
GGCATTTTTTTCATGAAGGACAAGTTAAATTCATTATTTTT  
+HWI-EAS443:3:9:114:1650#0/1  
aaaaaaaaaaaaaaaa\_a^a^\_a]aaa^a`a`a`^aaa\_\_  
@HWI-EAS443:3:9:1605:1699#0/1  
GGACAAGTTAAATTCATTATTTTTGCCGTCTGAGTTCTTC  
+HWI-EAS443:3:9:1605:1699#0/1  
abW` `V¥Wb[XUa` [^a`^aa]\_^aTGaMG]a\_\_W\_]^^Y  
@HWI-EAS443:3:9:215:55#0/1  
GCATTTTTTTCATGAAGGACAAGTTAAATTCATTATTTTTG  
+HWI-EAS443:3:9:215:55#0/1  
a`0^[YZ]^W^V\_Y^^ [ ]YV]Z^V[[W[Z[^[[^][[^Z  
@HWI-EAS443:3:9:721:1238#0/1  
GGCATTTTTTTTCATGAAGGACAAGTTAAATTCATTATTTTT  
+HWI-EAS443:3:9:721:1238#0/1  
ab`bbbbbbbbbbbbbaaabababbaabb\_bbabaabab  
@HWI-EAS443:3:17:1490:1983#0/1  
CTGAAAGTCATCCATGGCTGCACAGGATGCATTAACCAAG  
+HWI-EAS443:3:17:1490:1983#0/1  
`]S¥V\_TQW\_]WU[ZTYYN^BBBBBBBBBBBBBBBBBBBB  
@HWI-EAS443:3:22:481:333#0/1  
GAGACCGATATGCGTCTCCACAAC TTGAGGGGTTTTCGGC  
+HWI-EAS443:3:22:481:333#0/1  
¥\_bb]]baaabbaaXaba` `a^a`bbbaabaH`ab\_^a\_  
@HWI-EAS443:3:24:1364:642#0/1  
AGCGGGGCCAAAATGAATTCATAAGGCATGTGAATTGAC  
+HWI-EAS443:3:24:1364:642#0/1  
aa`WUYF¥a\_PY[^YS`aSP]] [X¥[ON^`aZa`a [ \_a^J  
@HWI-EAS443:3:2:512:1023#0/1  
CGGTCCGTCTTCTTCTTTGGTCCTACATTTGCTTACCAT  
+HWI-EAS443:3:2:512:1023#0/1  
\_bbaba\_^^[aaab]a`bbbba` ``aabaaa`a`aaaQZa

@HWI-EAS443:3:39:227:1379#0/1  
GAGAAGCCTGGAGAGGAGATGGCCACCAAAGCGGACTACA  
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aZbababbaZa`aab^a\_a]S`abab`b`¥\_W¥]`\_^aa^  
@HWI-EAS443:3:47:819:84#0/1  
AGAAGACACACATTCACATCTTTTCATTCACTGAAAAATA  
+HWI-EAS443:3:47:819:84#0/1  
aa^ba¥ba]\_^aa``]]abWaa`aY\_a`Q^^aa\_^¥¥``\_  
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CATAAATCCCAATTACCTCATGGCTTGAAGCAAGGCCTA  
+HWI-EAS443:3:70:977:1980#0/1  
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@HWI-EAS443:3:71:1496:945#0/1  
TGGTCCGTCTTCTTCTTTGGTCCTACATTTGCTTACCAT  
+HWI-EAS443:3:71:1496:945#0/1  
aaaXaab\_aa`M]aaaaaaaa\_\_^`aa`aaaa\_a\_¥^YV`  
@HWI-EAS443:3:88:932:57#0/1  
ACGAACGGCACTATTGAAGCACCGATTTGAGATAATTGAA  
+HWI-EAS443:3:88:932:57#0/1  
aabaa]abaa\_b`bb`¥[aV]`[`Na`aa]a^a``aaa\_\_  
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GTGCACTTTGATGACTGCAAAGATGTTGGAGACCTGAAC  
+HWI-EAS443:3:90:1430:227#0/1  
a¥H]a\_aba``a`[^\_aZ\_aaa\_^aR`a]\_^Z0\_`\_^\_U  
@HWI-EAS443:3:92:607:244#0/1  
AGTTCCTGCTGATGGCAAAGAGGCCCATCAGGCAATCTGA  
+HWI-EAS443:3:92:607:244#0/1  
`\_^`aa`Zaa^`\_^a^¥¥]\_^¥Za^¥Z^]¥ZTZRZRZB  
@HWI-EAS443:3:93:1290:726#0/1  
GAGACCGATATGCGTCTCCACAACCTGAGGGGTTTTCGGC  
+HWI-EAS443:3:93:1290:726#0/1  
aabb`\_bab`ba^a\_aa\_\_aa\_\_`aaa`a``aQ\_\_`¥\_\_[  
@HWI-EAS443:3:93:1645:103#0/1  
CTCCAGTCTCGGGTCAGTGAGTGAGAACTCCATCTGGGAG  
+HWI-EAS443:3:93:1645:103#0/1  
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@HWI-EAS443:3:94:517:1453#0/1  
CAAAGATGTTGGAGACCTTAAACAGTATGACAGCGGTGAG  
+HWI-EAS443:3:94:517:1453#0/1  
R\_ab]bUbJaab¥RZ^bbb^bbabba`\_abab^DMMa``a  
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GACCTTGGTCGGCAAGCTTGCGCATAGTTCCTNTAATCTC  
+HWI-EAS443:3:29:590:1285#0/1  
aaababa^ab`¥^a\_V[X\_a`Vab\_a^^^XTDEO\_\_T` [  
@HWI-EAS443:3:15:594:1717#0/1  
TGCGGGGCTATATGAAGCAATCGAGGGGTGCCTGATTAAT  
+HWI-EAS443:3:15:594:1717#0/1  
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+HWI-EAS443:3:34:774:36#0/1  
¥¥``\_W\_[O¥\_\_VYTVRZYDTZ]YVWBBBBBBBBBBBBBB  
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+HWI-EAS443:3:46:184:953#0/1  
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TACCATTGGGATCAGCTGAAAGGCATCCATGGCTGCACAG  
+HWI-EAS443:3:52:1474:1682#0/1  
Y^`UOSW\_XWHSX\_]ZU```XTN[V[NRBBBBBBBBBBBB  
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+HWI-EAS443:3:5:1735:1773#0/1  
aaaaa`aabbaaVa]VaaXJaZbbaaabbW\_a`\_VS]GZB  
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TCGGGGGGTTCGGCTGAATCGAGAAAATTGCTTCTCATT  
+HWI-EAS443:3:61:1773:1530#0/1  
a^YUWabG`a`]NT^aa\_`¥^^X^\_^`a¥¥[ZYZR[QUWU  
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+HWI-EAS443:3:67:1601:707#0/1  
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+HWI-EAS443:3:82:318:911#0/1  
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+HWI-EAS443:3:88:317:137#0/1  
aabbaa`a\_a`P^aaU`a\_``VU[``\_]X]`UaXaU^a^Z`  
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+HWI-EAS443:3:89:1603:719#0/1  
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TGGGTCTTCTTCTTTGGTCTACATTTGCTTACCATTGG  
+HWI-EAS443:3:96:1008:868#0/1  
^Y\_a^`b¥[¥\_]`[^aa`Z]ZS^]¥``a¥]SZ`\_SV]aZ``  
@HWI-EAS443:3:10:1732:262#0/1  
CTCAAGTTGTGGAGACGCATATAGACNGTTGAATAAAGAT  
+HWI-EAS443:3:10:1732:262#0/1  
G]b¥¥¥`Za\_^X[b¥[\_ZR¥bbb]HDTMTY]SY]HZ^^S



@HWI-EAS443:3:12:1055:433#0/1  
AGCANTGCCACA ACTACTTCAATGCATGTGTGAGGAAGGA  
+HWI-EAS443:3:12:1055:433#0/1  
`b`RD[¥]Ta]`¥`\_][\_a[\_`¥`]]\_aVa¥\_Va¥TM^\_V  
@HWI-EAS443:3:16:740:1372#0/1  
CAAATAGTAGCATTGCCACA ACTACTTNAATGCATGTGTG  
+HWI-EAS443:3:16:740:1372#0/1  
abbbaabYbbba[b^aaa`a]Qb\_aa¥D]aaaWaaYOXX^  
@HWI-EAS443:3:46:336:1755#0/1  
CATTGCCACA ACTACTTCNATGCATGTGTGAGGAAGGAGT  
+HWI-EAS443:3:46:336:1755#0/1  
a\_b^abX^Zbbaa`\_a`UD^`^Vaa[[a[`\_aa`\_\_Y`Y  
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CACATTACATCTTTTCATTCACTGGAGAAGAGANGGCCA  
+HWI-EAS443:3:57:1063:1609#0/1  
USYS` `[V[baaaT[[ZY`^^`ab`b`b[baMD¥]LX^  
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aX`TH^D¥abb^aa`aba^aT^ba\_ba` `bba`KWW\_TDF  
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AGCAGGTGCTAGTAGAGCTACAGGACATTGNAATGAAGA  
+HWI-EAS443:3:76:992:1922#0/1  
a][ ]0\_`a`ab\_FZ^^` `^a^a\_\_\_`^`\_aVDW\_[ ]`^¥G\_  
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+HWI-EAS443:3:85:963:687#0/1  
a`Y`a^GYV\_RZ]` `V¥]YTS\_V`U¥` `a\_T[DR¥¥TNT]  
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+HWI-EAS443:3:93:880:1793#0/1  
\_`b[R¥a`aa` `a]aa\_\_WYMDYaX\_[ ]a`M¥¥]TZ^[¥X  
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+HWI-EAS443:3:53:918:95#0/1  
Tb`\_abaaabbaab]b^abXZb^a\_\_\_b`X`Z`aV^aU[ `  
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+HWI-EAS443:3:67:335:1602#0/1  
aaaaQbaaaa`a¥` `aaaaaaaY`aa`aBBBBBBBBBBBB  
@HWI-EAS443:3:69:780:946#0/1  
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+HWI-EAS443:3:69:780:946#0/1  
a`X^\_Z`Y\_baabaa`]^aa¥Za`]¥`Y` `a`baV\_` `\_^  
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GGGATTTATGCCTTCTCATGTGGTTTACTATGTTAGGCT

+HWI-EAS443:3:97:1354:198#0/1  
^^^aaaaba`X\_aa`a`aaX`^)`a`\_^a``aZ`\_`\_[W\_  
@HWI-EAS443:3:16:1249:543#0/1  
GTCTTCTACAAATCAGGAAGAAATTTAGGCTTCTCTACCC  
+HWI-EAS443:3:16:1249:543#0/1  
a^a\_a\_Y^P`][^`Z[\_]aaY¥`\_`]^`^^`\_G\_X[VT]T  
@HWI-EAS443:3:16:698:1451#0/1  
GGNCCGCGACACTTGGCCTATCGCAGTCCTCAAGAGCATG  
+HWI-EAS443:3:16:698:1451#0/1  
a[D[\_]aQ`^TQ\_VRPa^[a`\_ZRU^UZ[\_R[\_¥¥¥WB  
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ATGGCTTGAAGCAGGTGCTAGCAGAGCTACAGGCGATTG  
+HWI-EAS443:3:25:648:1396#0/1  
^Z`¥`aaR[U`\_ZPXPP\_] ^YQ¥[TX^^UZ^PX\_GSJML  
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ATTGGTTCTCACATATAGGAACATGGGCCTCGACCGGTTC  
+HWI-EAS443:3:26:514:570#0/1  
\_Z][aabb\_R]ab\_WQa]\_`b^)]`[¥¥H`^T`¥Za\_ZX^  
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+HWI-EAS443:3:30:1554:1136#0/1  
aaXF]XaRY¥`[XXY^a^^^aNT]]\_`UUUV^W^OIMSBB  
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+HWI-EAS443:3:42:1704:1587#0/1  
aa\_0¥`babaVW\_baHa^]aa[b\_a]`\_Z\_a[aPFUFLOM  
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ATAAATCCCAATTACCTCATGGCTTGAAGCAGGGGCGAG  
+HWI-EAS443:3:43:1122:497#0/1  
a\_HUY]^\_]`a`\_Y\_ZR^VZ`Z¥¥XWBBBBBBBBBBBBBB  
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abbabbb]bb\_baaa`^aabaa`¥^^b`]aaa¥aa\_^a^]  
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+HWI-EAS443:3:46:68:896#0/1  
aa`Y`aY``WRZW¥Qab`N`XXbba]]a`[TOZZXRW`^  
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+HWI-EAS443:3:51:1371:315#0/1  
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+HWI-EAS443:3:70:1211:844#0/1  
abYb`¥¥^babbbb\_¥[PY`[`a^^¥a`aa]a\_\_UN][¥a  
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+HWI-EAS443:3:81:155:1551#0/1  
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+HWI-EAS443:3:15:313:1180#0/1  
aa` `\_bb\_a]Z¥WX¥[`^`]bbbT0Ta^R\_[Q`aS¥[Y[a  
@HWI-EAS443:3:21:199:1185#0/1  
CTTCCTCACACATGCATTGAAGTAGTTGTGGCAATGCTCC  
+HWI-EAS443:3:21:199:1185#0/1  
aa\_aY` `a[\_a]^`^`a\_NWZ[[\_aR[¥X\_UZYV`SXRiH  
@HWI-EAS443:3:26:1703:1683#0/1  
GGGGCATGGAATGAGGCGCTGCCTTCTTTAGTCTCTTGA  
+HWI-EAS443:3:26:1703:1683#0/1  
a]U\_X¥^aZ\_aaa` [NLG¥^\_aYS]BBBBBBBBBBBBBBB  
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+HWI-EAS443:3:27:1381:1522#0/1  
aab` `\_¥\_baZ`a`bbb`a]aaaaaaaa`a¥^\_a\_a\_aa`a  
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GCGAAAAATACTGTGTTCTAGAAATAGGAGACATGCTCTT  
+HWI-EAS443:3:37:547:787#0/1  
a^\_T\_YTG[Y`¥YW¥^`a^]W^¥^P]ZHZO[SO\_\_\_aZZ  
@HWI-EAS443:3:40:549:1680#0/1  
ANTTCCTTGGTCATGACTTTCTCTTTGACAGAAGACTCGG  
+HWI-EAS443:3:40:549:1680#0/1  
¥DYZ`bMLX]R)`]Y[\_¥a`^`Z\_[[`a`\_\_a]` `]\_\_¥  
@HWI-EAS443:3:45:1048:1280#0/1  
GAGAAAGACATGACCAAGGAATTCCTTTGAAATCAAATCNG  
+HWI-EAS443:3:45:1048:1280#0/1  
a`a` `aaaaaa^\_Ya^aa\_aaaaaa\_aa^a`\_a`aPDZ  
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GGGGCCGTCTCCTCTCCAGTGAATGAAAAGATGTGAATGT  
+HWI-EAS443:3:54:1087:729#0/1  
` `aaZUa¥` `aY`YaaVX\_`^`]]` [YZaVZR\_a[X^¥¥`¥  
@HWI-EAS443:3:54:228:1726#0/1  
GTCCCCGATTGAACATATCACAAGCATGAGGAGGAATATT  
+HWI-EAS443:3:54:228:1726#0/1  
aZaZaa`\_`[^aYX\_\_]^X`\_U^RX^`^a][`^^Z[^X]]  
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GGTCCGTCTTCCTTCTTTGGTCCTACATTTGCTTACCATT  
+HWI-EAS443:3:54:972:1369#0/1  
`aa`]aa\_b`aaaa\_aaaa\_Y]Xaa`aa`\_a\_a`a\_]` `\_  
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CACAATACTTCAATGCATGTGTGAGGAAGGAGTTGAAAC  
+HWI-EAS443:3:57:584:1877#0/1  
ZY[\_a]GN¥]¥T][\_baY`SXa]`X^[\_HHIPIYZ¥a¥HM  
@HWI-EAS443:3:62:573:1326#0/1  
AGGGCGTAGTCCGCTTTGGTGGCCATCTCCTCTCCAGTCC  
+HWI-EAS443:3:62:573:1326#0/1  
^\_\_ [GVYa`a`\_\_¥XXSPWU\_X¥\_]TQV]\_Y[R[XYBBBB  
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+HWI-EAS443:3:64:530:1208#0/1  
`aaa[^ab\_`aa`^bab`b]ababab`[\_aba`baa`b  
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ATGCCGAGTCTTCTGTCAAAGAGAAATACATGACCAAGGA  
+HWI-EAS443:3:70:1755:1727#0/1  
WDMPOY¥^S\_b`^aOUSa^^\_¥\_\_a`I\_]a`^WFP\_`YWW  
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+HWI-EAS443:3:72:1379:1024#0/1  
a[`a^a\_V`a`aa`\_aab\_\_]\_^\_\_][^\_``]`WU^^\_  
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+HWI-EAS443:3:76:340:1685#0/1  
]b\_bb`abaaabaaa`aa[]`baaaaaa`\_aa`aa\_a`\_  
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GTCCTACATTTGCTTACCATTGGGATCAGCTGAAAGTCGT  
+HWI-EAS443:3:78:864:377#0/1  
aZ][`a[a^]`a^`a^]`a`a`\_^[^a^\_`^]]\_RRS¥  
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+HWI-EAS443:3:7:1257:138#0/1  
`\_¥`]VZ\_Z¥YZ¥[FNY^U^¥XYVSBBBBBBBBBBBBBBB  
@HWI-EAS443:3:82:1715:1166#0/1  
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+HWI-EAS443:3:82:1715:1166#0/1  
WQa[Q``ba\_ZVbbabb`bababaaba\_Yab^b¥aa`b`\_  
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GGTCCGTCTTCCTTCTTTGGTCCTACATTTGCTTACCATT  
+HWI-EAS443:3:83:717:1528#0/1  
WYMXQ¥H\_]¥``aVaaaa^`U\_¥ab\_^X0^^`baaaa]]Z  
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GGTCCGTCTTCCTTCTTTGGTCCTACATTTGCTTACCATT  
+HWI-EAS443:3:92:1033:1095#0/1  
¥b^bb¥XH`V]aa\_Q`a\_bbY]\_``aa\_\_a`abaZ^a\_`  
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+HWI-EAS443:3:99:62:657#0/1  
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+HWI-EAS443:3:96:1768:1069#0/1  
a¥``[\_a`a\_XDZa``\_aa[R``\_]KDXPU^W]]V]]UQB  
@HWI-EAS443:3:12:1792:562#0/1  
AATTGAAGGAAGAGACCGAATCATGGCCTGGACAGGTGGT  
+HWI-EAS443:3:12:1792:562#0/1  
X\_``^^`\_^abba[VSOV`aaaY\_\_`WNYZaUTIPFS¥QL  
@HWI-EAS443:3:13:1145:60#0/1  
CGTGGGAGGGGTTTTCGGCTGAATCGAGAAAATTGCTTCT  
+HWI-EAS443:3:13:1145:60#0/1  
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@HWI-EAS443:3:19:1108:247#0/1  
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+HWI-EAS443:3:19:1108:247#0/1  
aaaaba[ab^ab]aaab\_aaa\_a]aa\_`a`YV\_`aa]X\_`  
@HWI-EAS443:3:22:1343:1176#0/1  
GCTGGCCCGAATGCACTATTGAAGCACCGATTTGAGATAA  
+HWI-EAS443:3:22:1343:1176#0/1  
\_`^\_aaaa`\_]\_aa]``^Y`a`\_`\_] [\_ZT`U^a\_`U`\_\_\_\_`  
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aaaaaXaaaaa]a^`aa`aa]\_aa\_\_\_\_a¥\_ZU\_W`YW\_aZ  
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+HWI-EAS443:3:25:296:1354#0/1  
abS[`aaXT\_aQP`\_WTa`Z¥[aWGYFTaZS\_`^¥\_S^Y`  
@HWI-EAS443:3:26:1773:162#0/1  
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+HWI-EAS443:3:26:1773:162#0/1  
aa^Y^bb\_XO\_aa¥ZXHYX]VY\_TQLZW\_RJVGRSLNWWW  
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\_[\_ZW][RV[Y\_\_Za^^`¥`\_ZRZ^WRP`¥WYUZ¥V[ZZT  
@HWI-EAS443:3:44:938:863#0/1  
GATTTTACATGAAACAACTTCCAAATGTGTGCATATTGC  
+HWI-EAS443:3:44:938:863#0/1  
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@HWI-EAS443:3:46:1460:1420#0/1  
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CGCCCTCAATGCAGCCGTTGCGCTCGAATCCATCTAAATA  
+HWI-EAS443:3:49:1181:18#0/1  
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GGAAGATCCGAAAATCGAAACTAACAAGTTTGCTGAATCG  
+HWI-EAS443:3:50:1752:549#0/1  
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@HWI-EAS443:3:59:1005:1805#0/1  
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+HWI-EAS443:3:59:1005:1805#0/1  
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@HWI-EAS443:3:60:1401:246#0/1  
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+HWI-EAS443:3:60:1401:246#0/1  
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+HWI-EAS443:3:68:159:1879#0/1  
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+HWI-EAS443:3:71:201:1381#0/1  
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+HWI-EAS443:3:78:1506:450#0/1  
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+HWI-EAS443:3:89:1566:320#0/1  
SaSWXb]a¥a¥X`bbb\_\_b^bba\_\_ISb`abXaR`VH]a`  
@HWI-EAS443:3:10:1793:251#0/1  
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+HWI-EAS443:3:10:1793:251#0/1  
DM[W[Y[[[[[[[UT[[[[[VYWY[[[YXNT[[W[VTI[Z[[  
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+HWI-EAS443:3:11:1289:2022#0/1  
aaabbbVabb`]G¥`aaa\_aa\_a`S`a]\_^T\_\_X\_]`^`\_`  
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+HWI-EAS443:3:13:1271:128#0/1  
a\_aa\_\_`\_`¥^`X`^`\_\_^`^Y]^Y]\_`\_\_V\_^`V^]V^]^^  
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+HWI-EAS443:3:15:958:2047#0/1  
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+HWI-EAS443:3:23:693:1678#0/1  
\_aI^I`Y\_\_a`a\_a]a^P[`NK[\_[[\_\_U]\_¥\_Z^^^YKO  
@HWI-EAS443:3:26:1740:124#0/1  
GAGAAAGGCATAAATCACAATTACCTCATGGCTTGAAGG  
+HWI-EAS443:3:26:1740:124#0/1  
`a`^a[b`\_[aa`\_PGZ`\_[ZaOV¥V^¥a\_Y^ZZG0]G  
@HWI-EAS443:3:29:91:539#0/1  
GCCGTCTTCCTTCTTTGGTCCTACATTTGCTTACCATTGG  
+HWI-EAS443:3:29:91:539#0/1  
aa`bUb\_\_[]Xb`a`a`NX\_aaa]P]a\_aa\_`T`NY^^\_  
@HWI-EAS443:3:32:18:1241#0/1  
ACCGTCTTCCTTCTTTGGTCCTACATTTGCTTACCATTGG  
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aaaa]a``aaa``¥¥][YYa¥X]`[\_\_\_][\_ZPY`]]\_`^

@HWI-EAS443:3:35:680:1452#0/1  
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+HWI-EAS443:3:35:680:1452#0/1  
HZ[][\_QY[\_a[¥^¥\_`Z¥Z^^\_X\_\_LIYTbaa]`\_XZ`  
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AGAGGGGCTTTCGGCTGAATCGAGAAAATTGCTTCTCATT  
+HWI-EAS443:3:36:1063:1896#0/1  
aaa`U¥¥H`aYWWYW\_H`\_\_]]]]][aYYJYQV¥`U`\_[T  
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+HWI-EAS443:3:38:1615:2038#0/1  
I[S^^ba`T^\_Vabbb]`a]bba\_b`ab``X^SaTWRIYG  
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]bTT`\_¥aY^`^a\_\_\_aa```¥]\_\_\_\_[^]`]VV¥Y`WS  
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a¥^a]`\_aa^^aa\_aa`¥¥Z`^`\_\_`aa`^`^¥T\_]\_\_\_\_  
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+HWI-EAS443:3:54:219:1863#0/1  
aa\_^a\_a¥G]``\_\_\_a^`\_^`]Y\_aaU\_\_\_\_[]\_S\_^YV]  
@HWI-EAS443:3:55:535:995#0/1  
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@HWI-EAS443:3:59:523:1830#0/1  
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+HWI-EAS443:3:59:523:1830#0/1  
^¥[Qa`a¥SYa`¥aa¥\_Y^\_\_\_\_¥\_\_\_\_\_`\_[QWZ[^]Z[]G  
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+HWI-EAS443:3:63:1016:1153#0/1  
aaba`aaaaaaba`aaaa``aaaa`aaaa`\_]`-[\_]`¥  
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+HWI-EAS443:3:64:52:939#0/1  
X^aYW¥Za[XaVU\_I^`¥NF[V`a`YVa]]a¥W¥Z¥`W¥  
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+HWI-EAS443:3:75:37:1051#0/1  
V\_W^W)`W^)`¥`¥¥[X\_\_\_XTWZY[\_`])`¥¥\_]X`a\_^R  
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abb`baXab¥aa`bbba[\_a\_ba[a`a[b`aa]\_]a[aa  
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+HWI-EAS443:3:7:855:745#0/1  
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+HWI-EAS443:3:96:1723:1482#0/1  
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+HWI-EAS443:3:97:1004:622#0/1  
abaaaa^ab\_aa\_aabaa\_a\_aa\_`\_`a\_\_`W`\_`````]



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+HWI-EAS443:3:15:1225:351#0/1  
`a^aaaa\_aa\_a`\_`\_aXa\_a]\_aY]`[^[X^\_\_^a¥Y^U  
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+HWI-EAS443:3:17:1261:273#0/1  
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+HWI-EAS443:3:19:1013:981#0/1  
Q\_^Y^V`¥S`bbZ^\_`\_]L]Z]W]¥¥Y\_a`SH\_[GSTBBBB  
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+HWI-EAS443:3:20:1419:1220#0/1  
L\_ba\_^^aY¥T`bb\_Zb\_W`aabWa`ML^bb^b]GQaa`a  
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+HWI-EAS443:3:25:956:2014#0/1  
\_¥]Y¥`aaXQ\_b^\_^]^OR\_X[¥XMX¥b^^aaR¥GN¥[G[  
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+HWI-EAS443:3:29:459:748#0/1  
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+HWI-EAS443:3:30:114:903#0/1  
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+HWI-EAS443:3:32:283:1062#0/1  
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`b\_¥\_\_baaba\_] ^bb\_b\_baba^baZT] `X`^` [ ]UX]\_  
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aaa]\_¥[ZTaaab[^ZSTZP^`^¥YTKZ^`XR]BBBBBBB  
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aa¥¥a¥aaa`abaZ^X¥W]\_Z^X`a`^Z^^SSY]RFPUN  
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]``^aa^a[\_`a`PY^a\_\_^¥`\_\_W^[\_W]VXX^V^]  
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`a`\_`\_\_aa\_aa`aaaa`\_aa\_aaa`\_aa\_T`\_a\_a`¥  
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+HWI-EAS443:3:69:789:381#0/1  
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GGCAAGATCCGAAAATCGAAACTAACAAGTTTGCTGCAA  
+HWI-EAS443:3:72:1371:881#0/1  
R\_QJ¥PRXabaY\_a\_\_IY`YR¥^\_SSZ\_¥aZ`Z`]Vba^T  
@HWI-EAS443:3:80:1209:1131#0/1  
CACCCCTGTTGTGTTACATATACTGTTCCACTGTGCGAG

+HWI-EAS443:3:80:1209:1131#0/1  
V\_aaSV\_Ma[S\_\_ab][Saaba]aa`bb`UYabba\_VHRa  
@HWI-EAS443:3:81:1197:1162#0/1  
GGGCTTTCGGCTGAATCGAGAAAATTGCTTCTCATTGTTC  
+HWI-EAS443:3:81:1197:1162#0/1  
V\_^JXaa`\_]`baba`bbbbabbaaaabb^abUbUbSaa  
@HWI-EAS443:3:81:568:598#0/1  
CTGAAGAGGAGATGGCCACCAAAGCGGACTACACCCTTGA  
+HWI-EAS443:3:81:568:598#0/1  
abbbbbbaabbbbaa`aaaa`ba`aa^a^`aaaa]^\_`a  
@HWI-EAS443:3:84:326:152#0/1  
AGCAGGTGCTAGCAGAGCTACAGGACATTGAAAATGTAGA  
+HWI-EAS443:3:84:326:152#0/1  
aaa\_aa^aaaaa`a\_aa\_a\_a¥^`^`^`]¥Y¥^]U\_`^  
@HWI-EAS443:3:85:1279:713#0/1  
GGGCTTTCGGCTGAATCGAGAAAATTGCTTCTCATTGTTC  
+HWI-EAS443:3:85:1279:713#0/1  
Z`WFZW[a\_XQ`[YbZbaV¥R\_V^`aYVXZR\_`[b`b`^F  
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+HWI-EAS443:3:93:1220:789#0/1  
]T¥^VM^]Z\_aYQLWRY`¥aZJL]VNWOFVWLRVBBBBBB  
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CCCGTGTGTGTTACATATACTGTTCACTGTCCAGGC  
+HWI-EAS443:3:94:1603:190#0/1  
a\_`aXaa^[`\_[a\_`aaaa`aaa\_`V`¥R`[\_`\_VUV¥MSP  
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GGGGTTTCGGCTGAATCGAGAAAATTGCTTCTCATTGTTC  
+HWI-EAS443:3:94:460:425#0/1  
aaab[aaaa\_aa`\_`\_]a\_`\_]\_\_\_\_\_^`\_]a\_`\_`\_]`Y  
@HWI-EAS443:3:95:1603:1232#0/1  
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+HWI-EAS443:3:95:1603:1232#0/1  
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@HWI-EAS443:3:97:1536:448#0/1  
ACTGGAGCCACACAAATGGGAAAAATACTGTGTTCTAGAA  
+HWI-EAS443:3:97:1536:448#0/1  
a¥aHT\_a``WDX\_]¥a]\_KRUZTX^TMJWV^^ZOXXRZB  
@HWI-EAS443:3:98:96:779#0/1  
CGGTTCTCTTTGTAATCATACAAATCAGGAAGAAATCTAG  
+HWI-EAS443:3:98:96:779#0/1  
aa`¥Yab`^`aaabbb\_``ZU`a`^a`aa¥V¥\_`X`\_`Y^  
@HWI-EAS443:3:26:644:1500#0/1  
AGGGCGTGGTGTGTCNTCCTCAAGAATGGTTCAATTTTGGCG  
+HWI-EAS443:3:26:644:1500#0/1  
```bb\_a`aX`[¥DR`aa]¥]aa`\_]\_Wa\_a\_\_^`^]G`\_  
@HWI-EAS443:3:34:1557:1729#0/1
TTGGCCTATCGCAGTCTCAAGAGCANGTCTCCTATTTCT
+HWI-EAS443:3:34:1557:1729#0/1
UXX_`Xbab`¥aa``b_bbbbaa¥]¥[D^¥_^^Ya__^XHU

@HWI-EAS443:3:63:425:132#0/1
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+HWI-EAS443:3:63:425:132#0/1
a]X]^a`_a`b`_a]Y]]aT_]`a^S¥VV_`Y]MDT^^QF
@HWI-EAS443:3:74:479:1166#0/1
CGGCCAGTAGGAGTCTATGGGATTCCTTNCGTGAGTCCGA
+HWI-EAS443:3:74:479:1166#0/1
G¥]]^]]¥YWQ`_W`Z`^^baXa¥`X`ZD^baa```bbaX
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CACTATAAGACAAGAAATGGCCAGTAGGAGTGTATGGGAT
+HWI-EAS443:3:100:388:1119#0/1
aa^__Q_a]ZZ__V¥YR^W_¥T]MI¥PTVVFH]_^_BBB
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GTCTTCCTTCTTTGGTCCTACATTTGCTTACCATTGGGAT
+HWI-EAS443:3:100:482:211#0/1
a`^ab`_ab^bbba`W_a`_a`_a`¥a`^X____`_`^^^
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+HWI-EAS443:3:100:646:407#0/1
ZaS`[aSTNa`I^a`ZNP]Sa^WT_a^`¥YX[[aS__XVB
@HWI-EAS443:3:100:742:679#0/1
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+HWI-EAS443:3:100:742:679#0/1
Waba^`b`b_QZabb`_]`aabaababaaa`aaa]_`ba
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+HWI-EAS443:3:100:795:382#0/1
`bb]baa]ababaaaa`a_aa^baaaa`aa`_`aaa^b]b
@HWI-EAS443:3:100:809:1484#0/1
TCCGTCTTCCTTCTTTGGTCCTACATTTGCTTACCATTGG
+HWI-EAS443:3:100:809:1484#0/1
`[Qb_^aYTaa_]_`[¥XUH¥a`__a`_Y__a_RW`_`B
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+HWI-EAS443:3:10:1282:1206#0/1
[ba`[aRI_¥a^aab^bbba_Z¥`aaba]abb]ab`ab¥b
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@HWI-EAS443:3:10:1602:2044#0/1
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+HWI-EAS443:3:10:1602:2044#0/1
aa`a]¥aa¥a_GH_¥Z_ZZRXYUYUVXNY¥¥NWS¥QGNUS
@HWI-EAS443:3:10:1676:1348#0/1
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+HWI-EAS443:3:10:1676:1348#0/1
^`bbb`bba_]_abb]baa`_a¥a`aa`_QRaa¥Z_a``W
@HWI-EAS443:3:10:1766:1490#0/1
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+HWI-EAS443:3:10:1766:1490#0/1
]ba_`a_] [_WY]a`^¥^_]P¥`WWZ¥`Z_]_]X[YLYY
@HWI-EAS443:3:10:253:1434#0/1
CACAACTACTTCAATGCATGTGTGAGGAAGGAGTTGAACC
+HWI-EAS443:3:10:253:1434#0/1
ababbbbbb_bbbbbabbab`bbb`abb[bbabbaaa^
@HWI-EAS443:3:10:356:433#0/1
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+HWI-EAS443:3:10:356:433#0/1
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+HWI-EAS443:3:10:751:1887#0/1
¥_b¥X^bbbb^0^bbbb_ba`T^a`a¥b`bbb`aa_ab`_
@HWI-EAS443:3:10:837:106#0/1
GGGGCTATATGAAGCAATCGAGGAGGCCTGATTAATGAT
+HWI-EAS443:3:10:837:106#0/1
aZ_[VUU]OQTLRRTR]VV]Y]YVVHVYYYYVXYVVXYVV
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+HWI-EAS443:3:10:910:366#0/1
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+HWI-EAS443:3:11:1033:1506#0/1
aaV`aabT[^bab`a[aaaba[ba_a_`aaa`^`aa_a^`
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+HWI-EAS443:3:11:130:1290#0/1
`baabaabbaaaba_baY`aaaaa_a]a_a`_a`__`^_
@HWI-EAS443:3:11:1348:980#0/1
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+HWI-EAS443:3:11:1348:980#0/1
aaa`aaa`aaa`_a___a_a_a_Wa`ZUW^¥W¥YWWBB
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+HWI-EAS443:3:11:1405:1956#0/1
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@HWI-EAS443:3:11:165:1573#0/1
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+HWI-EAS443:3:11:165:1573#0/1
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+HWI-EAS443:3:11:384:73#0/1
ababaaZabb`aa_a_a`aa_a___a_a__a`_aZaZa[
@HWI-EAS443:3:11:420:1636#0/1
CTCAAGAGCATGTCTCCTATTTCTAGAACACAGTATTTTT
+HWI-EAS443:3:11:420:1636#0/1
aaaa^_]a`aaa`b``aaTaaa__¥aY]_`aaUMY^`^^S

@HWI-EAS443:3:11:447:1936#0/1
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+HWI-EAS443:3:11:447:1936#0/1
aaaaba_ba`aaa`a``_]Z_a`a`a__^`_`_`_`^a``
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+HWI-EAS443:3:11:477:1391#0/1
a[b`aW`aaaba_a0[MYa]PT]`_a_]_aa_a¥X_^_V_
@HWI-EAS443:3:11:725:401#0/1
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+HWI-EAS443:3:11:725:401#0/1
a`aaa]abbab^aabaaa``a``_a^``aa_``a_aa``
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+HWI-EAS443:3:11:995:321#0/1
a`¥``Y`baaab_] [[aa`a_aW`_]_]`W¥]^]`W_^
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+HWI-EAS443:3:12:1022:873#0/1
[]SZT`Q`^a_¥¥]^Y`¥]PQPα]GULR^XFOLGK[_XB
@HWI-EAS443:3:12:1108:1296#0/1
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+HWI-EAS443:3:12:1108:1296#0/1
aa[`aaZba[_^bbb_¥Za_Z_Vbbaaa`aX[baa^aba`
@HWI-EAS443:3:12:1233:145#0/1
CATTTGCTTACCATTGGGATCAGCTGAAAGTCATCCATGG
+HWI-EAS443:3:12:1233:145#0/1
VU_a_IV__XV]Vba_0[^TT¥a¥W`^``¥U_``XRQa¥]
@HWI-EAS443:3:12:1344:1530#0/1
TGAAAAGCCTAGTTTTGATTCTTGCCCCGCTCTCTTCGTC
+HWI-EAS443:3:12:1344:1530#0/1
`b_QT_`a^`UUPW_[b`^WOHZTZWU]b`]SZaHS`aYa
@HWI-EAS443:3:12:135:1825#0/1
CATGACCAAGGTATTCTTTGAAAACAAATCGGAAACATGG
+HWI-EAS443:3:12:135:1825#0/1
¥V__ [aaa^^]Va`_^`_X_W`^`a¥ZUDWGXXaZ_]W]
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AAATAGTAGCATTGCCACAACACTTCAATGCATGTGTGA
+HWI-EAS443:3:12:1513:39#0/1
¥aa_aaL`¥]_ab`a__^`a0a_T^a`_^`a_X^aXaW]S
@HWI-EAS443:3:12:1523:190#0/1
GCAGGAGCTAGCAGAGCTACAGGACATTGAAAATGAAGAG
+HWI-EAS443:3:12:1523:190#0/1
`^^`^ZZ`a``Y^a[Y¥]]Y__[[[S]Z_XV_Z]^ZW_]_]]
@HWI-EAS443:3:12:273:811#0/1
CACAACTACTTCAATGCATGTGTGAGGAAGGAGTTGAACC
+HWI-EAS443:3:12:273:811#0/1
aabaa`abbaa¥a[aa`Xaa_a^a^`a^¥¥`_a_a[___Q
@HWI-EAS443:3:12:521:703#0/1
CATTTGCTTACCATTGGGATCAGCTGAAAGTCATCCATGG

+HWI-EAS443:3:12:521:703#0/1
abbabbba`____¥a_R_baabbaab]Z_]`Q_a¥Q0^aa
@HWI-EAS443:3:13:1055:1457#0/1
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+HWI-EAS443:3:13:1055:1457#0/1
S_ab][a¥Z]b]YY]baabYa]aU^TROYUFN_a_¥[X_a
@HWI-EAS443:3:13:1077:312#0/1
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+HWI-EAS443:3:13:1077:312#0/1
ZZ¥WaZ`¥a_^Q¥WRP`^a`abaab]aab`_[XXXFW`_`
@HWI-EAS443:3:13:1133:824#0/1
ACTTTTTCTGGTCCATATTTTACCAGACTGCCACTTCA
+HWI-EAS443:3:13:1133:824#0/1
a]b_babaaab`baaaaa```]]baaa¥XVa`_`_]`a][
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CCTGGGTGACTCTCAGATTGGCCATGTTTCCGATTTGTTT
+HWI-EAS443:3:13:1509:785#0/1
a`abbbb[^ba`baabaaab__a`aYZbb_TPP_baaaba
@HWI-EAS443:3:13:556:675#0/1
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+HWI-EAS443:3:13:556:675#0/1
aa[UR^GP¥ZQ_a_NR`TT^_`aaa^SZ`YL^XX`¥KX`a
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+HWI-EAS443:3:14:1724:327#0/1
_XZ¥ZYXXaZTXVRQV^_R[¥ZU^]WTVVSUVZZTUZRB
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+HWI-EAS443:3:14:369:2045#0/1
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+HWI-EAS443:3:14:379:1499#0/1
aa`aa¥0¥`ZU[[[a]S`Y_aZPY`[^a^Y^^^Y^VZX`
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+HWI-EAS443:3:14:454:1868#0/1
VSYVb¥UaUbZZS_aab`aSRQT_]RMMaZY`]¥_``a__
@HWI-EAS443:3:14:484:607#0/1
GCCACAACACTTCAATGCATGTGTGAGGAAGGAGTTGAA
+HWI-EAS443:3:14:484:607#0/1
abaPX_^[]aaa]]¥R¥Z]]XZ_P`¥J`SP^ZU_GS¥UE
@HWI-EAS443:3:14:686:210#0/1
GTTCCGGTGGGAGACTTTGGTCCGCAAGCTTGGCACAGTT
+HWI-EAS443:3:14:686:210#0/1
a[[`a_SS`^Y[ONU¥^^ZRY¥¥Z¥[WUWQZQYRNFWRUB
@HWI-EAS443:3:15:1026:947#0/1
CAAATAGTAGCATTGCCACAACACTTCAATGCATGTGTG
+HWI-EAS443:3:15:1026:947#0/1
Y^XXa`b¥¥¥```b`_a^a`^babba^V_Z`bb`abab^a

@HWI-EAS443:3:15:1394:538#0/1
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+HWI-EAS443:3:15:1394:538#0/1
ab`Va`Xb``^a¥aa[Ya`__a¥]a^bVS`a`aa_¥____`
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+HWI-EAS443:3:15:1501:1510#0/1
^^a``bbaa_a`[bb``¥^abbbababa^_a]a`[ab_bXb
@HWI-EAS443:3:15:154:1329#0/1
CTCACGTTGTGGAGACGCATATAGACTGTTGAATACAGAT
+HWI-EAS443:3:15:154:1329#0/1
aI`XHHYUORaY`Y``N[NZ_Z]_XU¥BBBBBBBBBBBBBB
@HWI-EAS443:3:15:290:984#0/1
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+HWI-EAS443:3:15:290:984#0/1
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GCTTGCATATGTTCAATCGGGGCAAATCTTCTCCTATT
+HWI-EAS443:3:15:423:1987#0/1
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+HWI-EAS443:3:15:979:1115#0/1
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@HWI-EAS443:3:15:988:1992#0/1
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+HWI-EAS443:3:15:988:1992#0/1
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+HWI-EAS443:3:16:1044:1863#0/1
a`[aa`]ab`aaV`T[_``¥__¥a_a_]M]¥`]_GXHHTN
@HWI-EAS443:3:16:105:1704#0/1
GTAGCATTGCCACAACACTTCAATGCATGTGTGAGGAAG
+HWI-EAS443:3:16:105:1704#0/1
[]bZbbb`a`a]abbbbbbbabbaa`baab^^[a`aaaa
@HWI-EAS443:3:16:1110:267#0/1
TGACTTTCAGCTGATCCCAATGGTAAGCAAATGTAGGACC
+HWI-EAS443:3:16:1110:267#0/1
aa¥S¥W^¥`^^VaX[_V_¥ZY¥ZOQ^aWTYJ_aRZ_``^P
@HWI-EAS443:3:16:1153:2013#0/1
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+HWI-EAS443:3:16:1153:2013#0/1
aaaaa]Ua__``_^^^_^^^Z_a]`X_`^^^_`^ZXLX¥
@HWI-EAS443:3:16:1297:477#0/1
ATCGCAGTCCTCAAGAGCATGTCTCCTATTTCTAGAACAC
+HWI-EAS443:3:16:1297:477#0/1
aaba_S]_a]a`aa_`]¥`]Y]Ta_[-[-`]a`_¥_U__
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AAAGAATTCCTTGGACATGTCTTTCTTTGACAGAAGAC

+HWI-EAS443:3:16:1423:1931#0/1
_ ^ ^ [RaXI[WHFa^ ^L]U¥HT^ZY¥_XRXZ^ ^BB
@HWI-EAS443:3:16:1720:1080#0/1
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+HWI-EAS443:3:16:1720:1080#0/1
_XHV_Q¥RW__`[LQ^UMSXO`]ZQFULJVXLR¥X^BBBB
@HWI-EAS443:3:16:687:1324#0/1
GCCACA ACTACTTCAATGCATGTGTGAGGAAGGAGTTGAA
+HWI-EAS443:3:16:687:1324#0/1
ab`babbabbabbbab`aabba`[aaa`aaa`a``a^`a
@HWI-EAS443:3:17:1113:2016#0/1
AGGGGGTTTCGGCTGAATCGAGAAAATTGCTTCTCATTGT
+HWI-EAS443:3:17:1113:2016#0/1
abaaaa^a`aaa¥a`ba]`a__aa` `^__Z^Z_^a^^`X
@HWI-EAS443:3:17:151:1466#0/1
AATAATTCTAGAATCTGGTGACCCGAATGCACTATTGAAG
+HWI-EAS443:3:17:151:1466#0/1
aaaaaa¥N[[a`_^__a_^`__`a]___`_`__`_^_^_¥
@HWI-EAS443:3:17:1523:815#0/1
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+HWI-EAS443:3:17:1523:815#0/1
`_^`^WWZ[YQ[UF^Z_]DUTRX^RXXU[YZ[[¥^V_[RZV
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+HWI-EAS443:3:17:1550:1354#0/1
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@HWI-EAS443:3:17:1737:1034#0/1
AGCATTGCCACA ACTACTTCAATGCATGTGTGAGGAAGGA
+HWI-EAS443:3:17:1737:1034#0/1
a^XU]¥_]_U^U_Q[XXZ`] _XZ^ZY¥_XaX_[¥YSY[YL
@HWI-EAS443:3:17:418:629#0/1
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+HWI-EAS443:3:17:418:629#0/1
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+HWI-EAS443:3:18:1018:1023#0/1
a[`aaaaJaU¥`aa_T`_]__`__V_X`aV[¥`_^`]¥X
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XX¥b^Ya_a`aSN0a_S]_¥QR¥V^U]G]_Z_aW¥SUR[^

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+HWI-EAS443:3:18:423:1083#0/1
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+HWI-EAS443:3:19:1119:182#0/1
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aa`b^bQ_aP_GX`a_a_`aaaa_`[_^__`_`[^__¥_
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+HWI-EAS443:3:19:1617:365#0/1
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+HWI-EAS443:3:19:223:984#0/1
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@HWI-EAS443:3:19:435:940#0/1
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+HWI-EAS443:3:19:435:940#0/1
^_`^aWFXN_RVY]_SORLYSSJ[S_XPZS_Z^WUULWW
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]`ZU^AD[Z_ST^Z]a_]]]QP¥`¥`^YaU]]`_[GSa[B
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_W]]^YV]`^`_XDWaaWQPUa^aa_]a`[GRU¥ZUSBB
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+HWI-EAS443:3:1:585:291#0/1
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+HWI-EAS443:3:20:1247:432#0/1
]aaV_a¥a_VaaYaa[aa]_[^aa]`]b]_UX¥`¥W`]^_
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a^a_Y__a_]`^_V`^V`_`_`^`^a]]_`Y_]_X`Z]Z^
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+HWI-EAS443:3:21:185:1321#0/1
ab_bab[^baaa_a`aabba]aaa^a^a`a^_aa`a]`_]_
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a]`aa`aaaa`a`[[[^`_`_`^^^VTW`_`_`Z^Y__]
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]_TR[_^a`^ZQHT`baabbabSVa[b]F[ba¥QaXS]XV
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+HWI-EAS443:3:21:837:1287#0/1
aaaaaa^aaYaaaaa_a```_aa^`^___^_^_`Z`Z`^
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+HWI-EAS443:3:22:1296:1491#0/1
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[^abb¥U_^a_I`Z`_U_a_bMaaa]a[`_aSa``T`Y[
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\_Z¥VX[\_X]a^^\_¥\_¥T]RUVMZ^XTY¥TQJRTQEX[]SW  
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^¥aa\_abJ\_ba[bV\_a\_aaab`abaaa^\_\_`0`aa^bO\_  
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a^``^^]a^`^¥`^^^[[^Y[`]]]`^Z\_\_\_Y^V^X\_^  
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+HWI-EAS443:3:27:1409:1610#0/1  
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a`aaabaaab`a\_¥`aaa`\_ba¥a^aaa^aa\_] ^W\_Z¥`  
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+HWI-EAS443:3:28:1744:129#0/1  
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+HWI-EAS443:3:28:724:537#0/1  
abbb\_Za]]babbbb^\_]\`WZ^a`^^ZXa[`a[X\_[```¥  
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AGCAGGTGCTAGCAGAGCTACAGGACATTGAAAAGGAAGA  
+HWI-EAS443:3:29:340:1906#0/1  
a^aaaa^ab^`\_`aaa\_a\_aa\_[X`aaZ¥Z`^Y¥]W]^`^`  
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ATGAAATGGAAATCCGAATACATGAAACAAACCTCCAAAT  
+HWI-EAS443:3:29:369:1965#0/1  
a\_\_aaa]^[\_^]\_`\_]\_a\_a`a^]`\_`aaa^WKZZ\_S^^  
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GCTGGAAATAGCCTAACATAGTCAAACCACATGAGAAAGG  
+HWI-EAS443:3:29:417:483#0/1  
a\_ab`abaaa`aaaa\_aa`a^aa\_a`\_]\_a\_`^\_a`^]  
@HWI-EAS443:3:29:442:1694#0/1  
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+HWI-EAS443:3:29:442:1694#0/1  
aa^a`baab`a\_aaabbb\_a`aaaWaYaba\_\_b`\_`\_`^`  
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+HWI-EAS443:3:2:1049:850#0/1  
TZaba^¥\_bbba]bba`]^aaVbbab``\_ba\_a]aYa¥]  
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+HWI-EAS443:3:2:1438:1083#0/1  
a¥¥`\_`\_UWY[XLR]LUT\_V[PNQSPUIWIDHVVTUWUBBB  
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+HWI-EAS443:3:2:1579:375#0/1  
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+HWI-EAS443:3:2:244:1748#0/1  
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ab`[ZR[b`bbRZa^[\_`\_aa^\_ba[Taa^[\_aP\_\_0[`Y  
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+HWI-EAS443:3:2:689:1739#0/1  
¥TZaRZa`baaYG\_V^\_a\_\_\_\_[VVa^¥\_\_FFG¥S\_`\_\_XQ  
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+HWI-EAS443:3:2:758:1699#0/1  
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+HWI-EAS443:3:30:1328:445#0/1  
aaU\_\_0\_b`UaaU[XP]\_baQaaa\_aa^\_U]\_aa`[[\_\_a  
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+HWI-EAS443:3:30:212:454#0/1  
a^Q^UF0aX[```\_a\_¥¥¥\_[¥Y¥TXR]RFU¥STTPRRW  
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aaa¥T]baa\_b[^\_`]¥aaaXXa\_[XT[Q[aPS[\_\_\_ZWRU  
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¥`a`Zabb\_baba`^\_]\_a\_aaaa^`]\_aa\_a]U\_a\_\_a  
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\_QY^¥QW[QW]]]W^\_YYW]XZ`]WMDP^[R`Z^VLX[  
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+HWI-EAS443:3:30:598:1616#0/1  
\_bbbaba¥b]abaaWS^bab]abbaa^abaabaaa\_R\_^`  
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AGTAGCATTGCCACAACACTTCAATGCATGTGTGAGGAA  
+HWI-EAS443:3:30:744:971#0/1  
V¥YV]^XX]`\_a¥a`W`^]¥\_¥¥^\_[S^W[YNay[¥Y¥Z^

@HWI-EAS443:3:31:1042:511#0/1  
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^\_]aaaa`^a\_aa`ab`aa`a`aab```aa\_]`[^`^^]  
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GCTCAATGCATCCTGTGCAGCCATGGATGATTTTCAGCTG  
+HWI-EAS443:3:31:1460:541#0/1  
¥a¥\_a]^^¥`\_b\_bb`¥babYLab`abWD^\_¥`¥`]  
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a]bbbaab\_abaaa^baaaaa\_aaaab\_bXba`\_aa^aZ  
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abba]\_bXb\_bbaaQabbba`bbbbabba`\_aabb\_`[T[  
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+HWI-EAS443:3:32:1171:797#0/1  
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+HWI-EAS443:3:32:1421:106#0/1  
a`bI\_\_b`VY][R^XPTSS¥\_PUV][UXY\_]`^M¥]^¥  
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AGCATTGCCACAACACTTCAATGCATGTGTGAGGAAGGA  
+HWI-EAS443:3:32:1649:2034#0/1  
OMU^]X]`]FX]¥ba`aaa¥aaaI¥\_ZLYF¥Y`YNOR¥^  
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+HWI-EAS443:3:32:255:1700#0/1  
aa\_R][a^SVYZQ\_a¥0¥^\_]`[¥X]`aa[Z`\_\_\_\_ZZ\_a  
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aaaaaaWaa\_`\_`^¥\_`\_]^\_\_`^\_`^MKU^Z`X^Z  
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GGGCATGGAAATGAGGCGCTGCCTTCTTAAGTCTCTTCAG  
+HWI-EAS443:3:33:1139:515#0/1  
\_`^a¥^]b^X]Za\_W\_X`aX¥a[VSBBBBBBBBBBBBBBB  
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a\_a`aT]`V`aaaY^XNY][[PWX\_W\_TZXYT^XUWQSX  
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+HWI-EAS443:3:33:1305:1886#0/1  
a\_`[^`^a\_`\_]P^`Y\_Z\_a`\_\_`^Z^W^]]^[YUPSSNV]  
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\_Y``W`\_abab^ZZa`aaaaRaaa^R```aVHY\_`^]\_[\_`  
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a^^a^a\_aa\_]MVY\_^][U^GVVWR^XWQIIIRROXZ]  
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+HWI-EAS443:3:33:83:1568#0/1  
\_V¥U^YSY`W`[WOW¥aYWVRXT¥¥QOQYW^YZWZ^W^]  
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+HWI-EAS443:3:33:87:1066#0/1  
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+HWI-EAS443:3:34:1161:401#0/1  
a`a\_N\_TZ]QS`^R^RZ\_a`\_`^]¥¥¥V^ZBBBBBBBBBB  
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ACA ACTACTTCAATGCATGTGTGAGGAAGGAGTTGAACCA  
+HWI-EAS443:3:34:1610:630#0/1  
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+HWI-EAS443:3:34:172:1069#0/1  
aaa\_\_`aa\_a\_aaa\_\_aa`Y`a\_`a`\_SYGYWY^ZLTV  
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+HWI-EAS443:3:34:225:543#0/1  
aaaa`aa\_a^b`aa^Ya\_``\_`^V^\_aaaaW\_\_`\_]^U  
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^`b\_NZ\_aabaa`a`S\_\_aa`a\_a`\_`^`a\_a^^\_^[Z  
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^^`\_YR`a]a]^¥¥\_`^TYTWaYab`[V¥`b\_aX^`aaaaJ  
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+HWI-EAS443:3:34:47:894#0/1  
T\_`````\_[[^`bb``¥`aab\_[¥\_¥V`¥a^\_a¥NZaY^]  
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+HWI-EAS443:3:34:572:1302#0/1  
\_¥^AY\_a^\_Y^Sb¥¥^^\_aZT\_`\_a^]W\_\_a\_^W^Z^Z]  
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¥`\_]abbU¥bb]baababa]aa\_Z`aba`¥Ia]\_abW]\_a  
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+HWI-EAS443:3:34:850:1364#0/1  
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+HWI-EAS443:3:35:1160:601#0/1  
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+HWI-EAS443:3:35:1215:1877#0/1  
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Z¥Z\_V[\_I\_`[¥¥SPYZ^VZ]a^Z\_W]¥YY¥^U`a`^DY  
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+HWI-EAS443:3:35:38:456#0/1  
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+HWI-EAS443:3:35:521:1752#0/1  
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+HWI-EAS443:3:36:1111:1264#0/1  
UZPYa`¥ZV\_WY]R\_¥aW¥a\_`^abb`^[^W]]aZW\_]`  
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+HWI-EAS443:3:36:1142:1465#0/1  
abbbbbbbab]baba\_\_b`bbbaababb`bbaaa\_ba`a\_a  
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+HWI-EAS443:3:36:139:34#0/1  
aba\_aabU[baaaaaaa`aa]aa````aaX^aa^`V`¥\_

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abbXV\_bb]]baa¥a`abba]XaaX0¥]aa\_aXU]`[\_Xa  
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ATCGCAGTCCTCAAGAGCATGTCTCCTATTTCTAGAACAC  
+HWI-EAS443:3:36:1486:480#0/1  
a¥a`^`^`[\_aZ]^^^`^\_YY^^]^^ZY¥XZ\_[JVV\_Y¥TT^  
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+HWI-EAS443:3:36:1506:765#0/1  
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a¥Q]]aba\_¥`ababaa`bTYa`aaa`[GV[\_`\_`\_`Y`\_]`  
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+HWI-EAS443:3:37:1210:188#0/1  
aba`aba`aaa\_\_aaaa`^`\_aa`aa^aT^]aa`\_¥\_\_\_\_  
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+HWI-EAS443:3:37:1470:1641#0/1  
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+HWI-EAS443:3:37:1512:25#0/1  
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+HWI-EAS443:3:37:1653:1888#0/1  
aa\_U[S[[[\_\_\_\_Z^Z`Vfy\_[SRY`\_T]U\_¥^WZ`^X^X  
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+HWI-EAS443:3:37:1740:253#0/1  
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+HWI-EAS443:3:37:303:1090#0/1  
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+HWI-EAS443:3:37:604:155#0/1  
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+HWI-EAS443:3:37:694:1324#0/1  
abb`abb`bb\_aaaaaaaaa\_aaaaa`]`W`\_[a`\_a]\_  
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+HWI-EAS443:3:37:694:1628#0/1  
a^XN\_b\_Y^^^aaRHZb`¥``¥aK]GSbM¥\_OT[]\_Zaa  
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+HWI-EAS443:3:37:86:1668#0/1  
YKY^aba`]\_\_bba``]^aaaaaab^^a`YQJYPbaa`^a^  
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+HWI-EAS443:3:38:1583:1328#0/1  
a\_b`a`\_\_baa`\_R\_ZXS¥a[`a``]SU^MRVGSWWSVGM  
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+HWI-EAS443:3:38:502:705#0/1  
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+HWI-EAS443:3:38:863:1525#0/1  
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+HWI-EAS443:3:39:1053:233#0/1  
a[``[\_`\_a][a\_a```\_Y^]^^^\_UY``Y]W^Z\_\_ZV^  
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+HWI-EAS443:3:39:1340:335#0/1  
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aa`]aa\_PU\_aZV[a`[]TaWX^\_a¥XY]\_¥^\_\_\_¥U^]\_  
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+HWI-EAS443:3:3:737:226#0/1  
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+HWI-EAS443:3:3:835:1616#0/1  
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+HWI-EAS443:3:40:425:1188#0/1  
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aaYUaYbVXVVQa^`bS\_Vaa\_a``¥N]]R¥`\_\_^[`a\_S  
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+HWI-EAS443:3:42:1312:1283#0/1  
a\_\_¥`U¥\_\_\_¥S\_\_\_]VZa`\_Y]\_``aa`\_^¥X¥\_]aZaM^

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R]WS[Z\_aZ\_`^bZa¥^abbb\_a¥b\_^T\_abbb^aaa`]]  
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+HWI-EAS443:3:42:1767:524#0/1  
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+HWI-EAS443:3:42:343:1674#0/1  
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+HWI-EAS443:3:42:460:2043#0/1  
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a`Yaaaa\_a\_a^aaaa\_``\_``\_a\_\_````\_``[MXa`\_a\_  
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+HWI-EAS443:3:43:1035:1670#0/1  
X``^aa`a¥`^¥`T¥¥\_Y¥bbKbbbbb`bbbaX¥````^\_  
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+HWI-EAS443:3:43:1428:281#0/1  
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+HWI-EAS443:3:43:516:94#0/1  
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+HWI-EAS443:3:45:123:321#0/1  
^`a`a`\_Xbab[a^a\_\_\_a[a\_a`\_U^\_]\_]\_¥`^PU^^]  
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CCGTCTTCTTCTTTGGTCCTACATTTGCTTACCATTGGG  
+HWI-EAS443:3:45:1589:709#0/1  
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+HWI-EAS443:3:45:430:864#0/1  
¥]]aabbaab`babaaaaaaabb¥`^`^`aa\_`aa```\_`\_`  
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+HWI-EAS443:3:46:215:227#0/1  
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+HWI-EAS443:3:46:378:524#0/1  
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+HWI-EAS443:3:46:713:1907#0/1  
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+HWI-EAS443:3:47:1113:709#0/1  
aaaaa`aa]aa]a^`^aaa````^\_^^```^]a\_`^]  
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+HWI-EAS443:3:48:1108:1721#0/1  
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+HWI-EAS443:3:48:27:308#0/1  
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R\_¥aZbbbX`Zabbab\_b\_ba\_ab\_\_baaaab]aabba`  
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+HWI-EAS443:3:48:574:774#0/1  
]^¥`a[[\_NL]^`^`aa``b\_SXa^]^a\_`]^YX^Z^\_QQa\_]`  
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+HWI-EAS443:3:48:94:710#0/1  
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+HWI-EAS443:3:49:1374:124#0/1  
^ba`aaa`ba`bbbbaaaaa^aa^aa]a`aa^\_aa\_a\_b  
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+HWI-EAS443:3:49:1423:119#0/1  
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@HWI-EAS443:3:49:1493:444#0/1  
CCGTTCTCTTTGTAGTCATACAAATCAGGAAGAAATTTA  
+HWI-EAS443:3:49:1493:444#0/1  
a`LVQ\_^Z\_ZabaUYUUT]^]Z¥Z¥]\_`b^]aaa`^aaa

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+HWI-EAS443:3:49:1584:1258#0/1  
a\_aaaa¥b`\_ba\_aaa\_\_\_^a^aZa^\_^^`\_\_^`Z\_X\_^  
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@HWI-EAS443:3:49:385:422#0/1  
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+HWI-EAS443:3:49:385:422#0/1  
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+HWI-EAS443:3:49:863:1881#0/1  
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+HWI-EAS443:3:4:1063:88#0/1  
Za`R`aa^b`a`\_¥PFYaVNaaaaOVa\_U`^[QWH[Y\_]]  
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+HWI-EAS443:3:4:1291:1884#0/1  
aa\_aba]D^aababa`\_]N`\_Zab\_a\_aa\_a^X\_`\_¥a[¥  
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+HWI-EAS443:3:4:132:1997#0/1  
\_[a^^XP¥R¥[bVQH][J^UPSaVK[FTPF^\_`a\_Na`XY  
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+HWI-EAS443:3:4:1491:197#0/1  
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+HWI-EAS443:3:4:1584:1883#0/1  
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+HWI-EAS443:3:50:131:852#0/1  
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+HWI-EAS443:3:50:1712:1227#0/1  
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+HWI-EAS443:3:50:482:218#0/1  
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+HWI-EAS443:3:50:652:62#0/1  
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+HWI-EAS443:3:50:736:633#0/1  
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+HWI-EAS443:3:50:914:1039#0/1  
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+HWI-EAS443:3:51:384:1814#0/1  
`aVb]\_a\_Ya`\_b`\_a¥aa`Z`^¥``\_\_^]`a`````\_aY^  
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+HWI-EAS443:3:51:42:202#0/1  
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+HWI-EAS443:3:52:1107:326#0/1  
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a`aa\_aaaaaa\_baaa`\_`aa`\_aaa]¥aaaa[aaa\_\_\_\_  
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+HWI-EAS443:3:52:1322:1880#0/1  
¥aa¥baXaabb¥aba\_Y\_Vba\_ab`a\_W¥baaXabb`bX^  
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+HWI-EAS443:3:52:1479:772#0/1  
\_a[`¥a¥N\_Ya`a¥`^^^VU^UZ]TXX^V¥S][Z`[YUT  
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+HWI-EAS443:3:52:1729:1087#0/1  
ab`^Z^\_\_b`^Zaa^a`aV`Y\_]``^`a`\_`^a`\_¥X¥\_`  
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+HWI-EAS443:3:52:442:1025#0/1  
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+HWI-EAS443:3:52:687:1709#0/1  
a`\_aYK¥^bb\_W`]\_\_aaa\_`^`aaaaa\_a`aa^Z``Q¥[[  
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+HWI-EAS443:3:53:1205:1342#0/1  
a[[¥VSaaaa¥\_WYa\_ZaY\_aZ¥S\_X[\_a[U]\_`Ta\_^T[  
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+HWI-EAS443:3:54:1455:665#0/1  
a`]¥\_XYU\_]`Z`[¥]TNR\_\_R]V\_ZOSS[VZaUZ`^][¥  
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aSabG`]\_a]YTa`K\_\_a¥a`]\_^Paaa^``\_¥Wa^HU^W  
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+HWI-EAS443:3:57:1032:649#0/1  
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+HWI-EAS443:3:57:1359:483#0/1  
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+HWI-EAS443:3:57:1425:265#0/1  
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T¥`ZaQHVa^^¥\_TTUZ¥aXa[aZ^aa[`¥YZZb^]F¥[^  
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+HWI-EAS443:3:60:1360:1821#0/1  
a`¥`\_a`]\_^a\_````\_``\_[]\_^\_\_Z^^X`]^`Z\_^ZT^Z  
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a`[a`]Ya`^]`^\_`a`abaa\_\_aa¥`aa\_¥^[\_]`[¥`^  
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+HWI-EAS443:3:66:134:1615#0/1  
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R\_[`W^b¥b`ba¥abaa¥`bb`a^R`aabb^aababbab^  
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+HWI-EAS443:3:66:1476:75#0/1  
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+HWI-EAS443:3:66:1540:1454#0/1  
ab^[^^`bba`^Uaa^^aaaa`aaaa\_a`bb]\_a\_aa¥  
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+HWI-EAS443:3:66:236:1421#0/1  
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¥Z\_ROXU^`bb`UUUDYaa`TL\_^Z^¥]¥]a\_]\_\_aX\_L^  
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+HWI-EAS443:3:66:560:116#0/1  
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+HWI-EAS443:3:67:1186:1874#0/1  
a`a`a`\_aaa\_aa^`aa`\_a`a^]\_`\_]a]\_]\_\_^^`\_Z^  
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+HWI-EAS443:3:67:1785:592#0/1  
aa\_\_a`b\_aa^`a`¥[aa`a\_`[Z¥`\_`\_`Y\_[^YX\_\_Y

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+HWI-EAS443:3:67:909:734#0/1  
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+HWI-EAS443:3:68:1037:500#0/1  
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+HWI-EAS443:3:68:1147:91#0/1  
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+HWI-EAS443:3:68:20:1069#0/1  
a\_ZH¥`a``^^[¥`\_a¥^[X^`XQT\_\_\_YXXW]NU[V[]  
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+HWI-EAS443:3:68:371:144#0/1  
`\_\_a][\_]a\_a]aaa`a\_\_\_]a\_]`\_]aV`Z\_]a\_^¥\_  
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+HWI-EAS443:3:69:1010:1061#0/1  
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+HWI-EAS443:3:69:1244:1283#0/1  
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+HWI-EAS443:3:69:1371:1808#0/1  
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+HWI-EAS443:3:69:501:512#0/1  
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+HWI-EAS443:3:69:51:412#0/1  
a`OR^aaU`aba`a`aa`\_a`aa`\_\_R^a]^`\_`]ZY`  
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CGGGCCTTCAATACTTAATTTTCAGAGCATCCATCAGCAGG  
+HWI-EAS443:3:69:543:289#0/1  
`b]MaZ¥bb`\_ab`\_`Z`XWabaaaaaaaaZaaa`^^V  
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GTGCAGCCATGGATGACTTTCAGCTGATCCCAATGGTAAG  
+HWI-EAS443:3:69:564:26#0/1  
^[^`^^¥`aa]]`\_¥Y\_\_\_\_\_OLV`\_XQJRNZYUUQZ

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+HWI-EAS443:3:69:674:1662#0/1  
aaaaaVZ`bZba`aS\_`aK^RaRIKGYMza^Q`ZV¥SDJ]  
@HWI-EAS443:3:69:680:1041#0/1  
GTTTCCGATTTGTTTTCAAAGAATTCCTTGGACATGTCTT  
+HWI-EAS443:3:69:680:1041#0/1  
aa^``aa¥PY^aWVTT[`I[Y\_a`SXR[SMWG[W`]UVPS  
@HWI-EAS443:3:69:85:807#0/1  
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+HWI-EAS443:3:69:85:807#0/1  
aba\_b]aaa`aa^`X^]\_`¥``\_`a`\_\_`\_\_^^Z[¥^\_`^`  
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+HWI-EAS443:3:6:1048:662#0/1  
abZa`ab¥a`aaaaa¥Y`aaYV`PV\_\_``^^^\_`]\_X]^  
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+HWI-EAS443:3:6:143:1904#0/1  
¥\_ZTT\_\_RR``¥^\_QXa`aWW]``I\_FF^X^^QJ\_VZ\_¥  
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+HWI-EAS443:3:6:1473:2030#0/1  
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aa¥X]^a[OYab\_XVZb¥WG¥00\_YJGY[JS^VV]^¥BBB  
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I\_bbabb\_a`\_bbbb`aab\_a0`b\_bbabbbb\_bbaab[]  
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+HWI-EAS443:3:6:552:1038#0/1  
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+HWI-EAS443:3:6:730:1439#0/1  
a\_\_[GSN¥`\_^[UaZa`[]RZXT^]\_\_SX¥]\_^Z[X\_`B  
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a]\_b`[ `[aab`\_`a\_abZ`abbbabb^[ababYT` `aUaY  
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aaaaa\_Vaab`\_^]aa\_aaaa]a[\_\_\_a`a^¥a^\_SLOY^^  
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¥WPU¥YY`VVSP^KZaY` `\_\_\_]Z`\_[] [S`\_ZZ\_XZX[RTR  
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+HWI-EAS443:3:70:523:1160#0/1  
a`a` `¥LY]a]`\_\_a`\_a¥]Z`]a`S^]]`a` `¥^¥^U\_\_  
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a`ZRO` `]aYaY\_]` `^a` `aaa` ` `aa`^a`\_\_`^Y`X^



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aa^a\_Xaaabb\_aaa\_\_b`bab¥¥]baP`\_W]^`^^`a¥R  
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abbaaba`aaa\_aa\_ababaaaaaaaa\_aa\_aaaaa^a\_a  
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+HWI-EAS443:3:71:982:1864#0/1  
Y¥VO\_^W`\_b\_[^T\_X`a^¥[V`^XW[a]UZ]¥]\_aJ]Q  
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+HWI-EAS443:3:72:1013:659#0/1  
¥X^\_\_^NY^W^`TW]abaaa]¥S\_Q[b^V^]Z]]]F\_H\_\_  
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+HWI-EAS443:3:72:622:1984#0/1  
^\_Z]^\_UF¥`\_Z]T]a\_V\_aa\_]^[¥X\_V¥Z]ZZRZTT  
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CAAGAGCATGTCTCCTATTTCTAGAACACAGTATTTTCC  
+HWI-EAS443:3:72:975:1929#0/1  
\_\_\_\_V`Ybba`^aa\_a\_]b¥b`\_a^aXa`ab`\_a¥\_^a\_\_]  
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+HWI-EAS443:3:73:101:1634#0/1  
aa`¥V¥T`¥[YYQ¥^`^`^X]^\_\_^^[\_[¥]\_^]X]YY  
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+HWI-EAS443:3:73:1064:983#0/1  
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+HWI-EAS443:3:73:1786:633#0/1  
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+HWI-EAS443:3:73:271:1780#0/1  
aXDT^]0^]]X^a\_\_a`a\_\_Y\_\_\_\_OSSX^^XWPN^^UUX  
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GGCATGGGAATGAGGCGCTGCCTTCTTCAGTCTCTTCAGC  
+HWI-EAS443:3:73:645:701#0/1  
a\_aa`a¥X[\_aa^`^`^a`a^^\_a]`a^SaW^a^a`¥^]`^  
@HWI-EAS443:3:73:738:702#0/1  
ATAGTAGCATTGCCACAACACTTCAATGCATGTGTGAGG  
+HWI-EAS443:3:73:738:702#0/1  
ababaabaabaa`^aaaa`aaaaaaaa\_aaaab\_aZa\_aa  
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+HWI-EAS443:3:73:944:1304#0/1  
aaaaUaa`baa`\_aaa`^a`^a`a]¥`]]`\_\_`^^^\_]  
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+HWI-EAS443:3:74:1016:1093#0/1  
a`a`aaa\_a`a`\_`^^^`\_V\_Z^^^\_W[[a^¥ZRU\_V^VW  
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+HWI-EAS443:3:74:1682:1286#0/1  
abbbbbbbbbbabbbbbbaabab`babbbbaabaaaaaaa  
@HWI-EAS443:3:74:196:1763#0/1  
CGAAAATCGAAACTAACAAGCTTGCTGCAATATGCACACA  
+HWI-EAS443:3:74:196:1763#0/1  
a]¥X`aY]``ZS[W]XZ`VXTRPYTLQQ[TN\_XX\_\_\_\_\_]]  
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+HWI-EAS443:3:75:1339:453#0/1  
][`Sa]\_\_b\_VL\_b^b^X^aZ^¥N`\_¥abb`T[F]\_\_GXF  
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+HWI-EAS443:3:75:1508:1858#0/1  
aa¥]``^a¥`aba\_T```]`aX[DYaTJ^]aa]a\_\_`[aY  
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+HWI-EAS443:3:75:1745:1077#0/1  
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+HWI-EAS443:3:75:559:348#0/1  
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+HWI-EAS443:3:75:570:754#0/1  
\_a`b`aZabbabbbbabbabbbbbbab]bbbbbabbbb\_b  
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+HWI-EAS443:3:75:687:109#0/1  
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+HWI-EAS443:3:76:356:656#0/1  
^``b`bb`a`aa`^a\_a\_[\_`b`]a`b`^^b^V^]JZN  
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CATTGCCACAACACTTCAATGCATGTGTGAGGAAGGAGT  
+HWI-EAS443:3:76:552:1329#0/1  
OY¥¥¥```bbbbbbbaa¥¥`aabbbbb`b[`Sa```^`ba\_  
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+HWI-EAS443:3:76:638:91#0/1  
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+HWI-EAS443:3:77:137:1652#0/1  
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a]`]]Y` [XTVW]`aaW\_a\_] [TQR[T\_RUQZHY¥[¥0\_  
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+HWI-EAS443:3:77:382:570#0/1  
aaaaaaaaa]J]\_^YX]]`^U¥^\_\_\_\_[^]^W[^¥YU  
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a`a]bUFZaIWTXSub`\_]a[a^LNHLaY]\_X^^[aa\_a  
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+HWI-EAS443:3:77:597:1648#0/1  
aa[abaaS`aaV`b`\_a^`\_[LU]^`X]W^\_¥¥\_`^`¥]Z]  
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+HWI-EAS443:3:77:720:1270#0/1  
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+HWI-EAS443:3:77:735:1928#0/1  
`\_`^a`¥```\_`\_TR^a^¥X[aU`\_S`R`T]`a¥^\_\_aY`  
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ab`\_HWb``aaa]\_\_\_\_^aaa\_\_a`^`¥aa`Z[Z]aa\_aaZ  
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\_Z\_NP\_[T¥aWT^^J][\_L¥GZ`VNUMFFXa\_`YU]BBBB  
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+HWI-EAS443:3:78:391:1885#0/1  
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+HWI-EAS443:3:78:566:791#0/1  
Z]`\_`^WaaaaXZ`\_\_```]Z[``^`^`a]]\_a`\_`\_`Y  
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+HWI-EAS443:3:78:569:486#0/1  
`W`Z\_]a^]aa^aa`a^`^`\_¥N]^`\_]M^aa[[aY TZ  
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+HWI-EAS443:3:78:718:280#0/1  
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+HWI-EAS443:3:78:960:1839#0/1  
a`^`[^aaaa^a\_]T\_a[]^```\_\_\_\_\_^`\_\_`````^a]W`  
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TGTTGCCCCGATTGAACATATCGCAAGAATGAGGAGGAAC  
+HWI-EAS443:3:79:1324:1586#0/1  
Y\_Q\_VZ\_¥J\_¥Sa]a]]¥WU]\_Y[^¥F[^\_HS¥OY^\_QW  
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+HWI-EAS443:3:79:1565:1088#0/1  
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+HWI-EAS443:3:79:1749:1341#0/1  
aa\_¥bba`b\_b\_aba^]T]UbaHXN`\_a`WHWIIERaW[[  
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+HWI-EAS443:3:79:522:125#0/1  
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¥aaabba\_\_aabaaaa]Mbb`a`\_a\_baaaabaYba\_`ab  
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+HWI-EAS443:3:7:1013:73#0/1  
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+HWI-EAS443:3:7:1017:125#0/1  
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+HWI-EAS443:3:7:394:57#0/1  
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+HWI-EAS443:3:7:651:1644#0/1  
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+HWI-EAS443:3:80:1067:681#0/1  
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+HWI-EAS443:3:80:1308:850#0/1  
^Xa^`a`¥abaaa`\_aa`\_]\_a\_[NLPY¥FS¥^RVLY[RM  
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a^^a`\_a\_`a`aX`\_`^Z\_]`a^\_\_\_\_]W]WWZ[`Z^^XN  
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+HWI-EAS443:3:80:454:1680#0/1  
^]¥`ab¥QJX]``T\_ab`aa\_aa`a`¥^aa`a``aa\_W]\_  
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+HWI-EAS443:3:80:64:94#0/1  
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+HWI-EAS443:3:81:1002:375#0/1  
^`bbba`Sb``bbaa^b`ba`abaaaaaaaaaaaa¥aUa  
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+HWI-EAS443:3:81:1303:73#0/1  
ab\_aa[aa`aaaX[\_a`a\_aaa]a\_V`Z]````]\_ZZ`\_] ]  
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+HWI-EAS443:3:81:1598:339#0/1  
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+HWI-EAS443:3:81:957:1956#0/1  
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+HWI-EAS443:3:82:1207:511#0/1  
¥¥¥Z¥\_\_W\_a¥\_OW^\_^WSq][UZ\_^YHTOX¥]X]bK[aZ  
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+HWI-EAS443:3:82:1408:927#0/1  
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+HWI-EAS443:3:82:1579:674#0/1  
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+HWI-EAS443:3:82:1737:1499#0/1  
\_`[``¥Y\_¥^`Z^S\_NF^b¥``¥\_^^^a[\_¥\_`ab]¥¥b  
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+HWI-EAS443:3:82:681:1421#0/1  
aa\_a`aab\_aa`S¥\_aaRR`a\_a`a\_Ua\_]\_\_¥a¥\_ZS  
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+HWI-EAS443:3:83:1750:350#0/1  
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+HWI-EAS443:3:83:1776:1081#0/1  
a\_]¥WU\_aX]¥`¥`ZZ\_`Z[]U]X^[SW]\_\_^U^)`WYZ  
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+HWI-EAS443:3:84:487:372#0/1  
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^\_¥SZOXX]Z\_Z]a[Za^aWNU]]]Y\_\_T^)`G¥ZX[``^  
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+HWI-EAS443:3:84:747:240#0/1  
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aa`\_aa\_Xaa[\_aT`\_aa\_a\_^`a\_\_\_Za`Za`^\_aX`X`  
@HWI-EAS443:3:85:1004:1755#0/1  
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+HWI-EAS443:3:85:1004:1755#0/1  
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@HWI-EAS443:3:85:1200:292#0/1  
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+HWI-EAS443:3:85:1200:292#0/1  
``R\_bbbabbbbbbbaaabaabbaab^baaba`bbabab  
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+HWI-EAS443:3:85:1260:908#0/1  
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+HWI-EAS443:3:85:1483:129#0/1  
a^baa]a`NYNa`Ha[a\_\_a¥Z^\_]S\_U\_S]¥H`TYW¥  
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+HWI-EAS443:3:85:1738:1389#0/1  
aaa`aa]ba\_¥\_a\_\_[\_`\_`a\_a\_Wa^`\_`a`U]^a^aZ`]  
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+HWI-EAS443:3:85:521:873#0/1  
aaaa`aQ\_`a`aaaa`\_]\_`a``aa`^`aa`a^[a¥`^`  
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+HWI-EAS443:3:85:579:1418#0/1  
aa\_aa\_aa`\_`aaa`aaa`\_]`a`aa`\_aZa\_a`\_]\_\_`]  
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CTTGGGGGCTATATGAAGCAATCGATGAGTGCCTGATTA  
+HWI-EAS443:3:86:326:17#0/1  
^^UX¥Z[T\_]^[MMUT¥[`UQGONR[HQLG[HZQ¥¥Wa\_[  
@HWI-EAS443:3:86:556:1538#0/1  
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+HWI-EAS443:3:86:556:1538#0/1  
\_\_[O[R`]WSWZXP\_aTWaa\_XQ\_\_Q\_P`Y¥\_`XMZ¥¥UY  
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+HWI-EAS443:3:86:691:219#0/1  
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@HWI-EAS443:3:86:783:143#0/1  
CATTTGCTTACCATTGGGATCAGCTGAAAGTCATCCATGG  
+HWI-EAS443:3:86:783:143#0/1  
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@HWI-EAS443:3:86:827:1064#0/1  
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+HWI-EAS443:3:86:827:1064#0/1  
`Z\_aa`]baaa``\_aa\_]aa]Z[[]^\_]\_aZ`R`]W]^`[  
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+HWI-EAS443:3:87:1360:1734#0/1  
ab\_[\_\_\_\_¥b[MW^[\_G0Taaaa`Ta[aaa\_a`Sab0a^b  
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+HWI-EAS443:3:87:1736:523#0/1  
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aab]bbbbabbabbab`baa`b^a[aa\_b\_\_ba`aa^`Z  
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+HWI-EAS443:3:88:1041:1267#0/1  
aa^\_[b]bba`aba¥a]a\_^bTaaaUaX\_`a\_a\_]ZaW^  
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+HWI-EAS443:3:88:1192:879#0/1  
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+HWI-EAS443:3:88:1209:1054#0/1  
\_`[P\_HZW]a`\_U^^`^^¥SX`aa\_YU¥0]`\_X\_a]]aa  
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+HWI-EAS443:3:88:135:1759#0/1  
aXa`a[¥P[]`a]ba`aaaa\_\_aPaTaa\_`aaaa^[M]Z  
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+HWI-EAS443:3:88:1512:1233#0/1  
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GAACGGGGTGAATCAATAATTGTAGAATCTGGTGAACCGA  
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Y`a^¥^`UDY`\_`I\_aa`Ra]a`\_]¥^\_W[a^WaXDHG\_0  
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ATACTGTTACCACACTGTCCAGGCCATGATTCGGGCTCTTC  
+HWI-EAS443:3:88:1587:619#0/1  
^TUaaa\_]¥`¥`\_aa\_`\_` `¥[^]X[ZW]UZ[NQ[T[¥¥  
@HWI-EAS443:3:88:1665:1033#0/1  
TGGGCCTCGACACTTGGCCTATCGCAGTCCACAAGAGCAT  
+HWI-EAS443:3:88:1665:1033#0/1  
a¥bb\_\_T[PXTJ\_a`¥TWVD[]a\_`]ZZRFLV¥¥\_WaH\_\_

@HWI-EAS443:3:88:1733:1181#0/1  
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+HWI-EAS443:3:88:1733:1181#0/1  
aabbabbbbaab`aa[abb[baaabRaabbWabaa`aP`  
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ATTGCAGCAAACCTGTTAGTTTCGATTTTCGGCTCTTCCC  
+HWI-EAS443:3:88:326:497#0/1  
]^abababba`aa`b`\_\_bX` `a\_` `a`X]]XDT]\_]\_[Y  
@HWI-EAS443:3:88:348:1603#0/1  
TAGATGGATTTCGAGCCGAACGGCTGCATTTAGGGCAAGCT  
+HWI-EAS443:3:88:348:1603#0/1  
]aaaL\_^bZ¥bR` `aaXaa\_baYSaSSV\_I\_` `aaX^`PDI  
@HWI-EAS443:3:88:352:129#0/1  
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+HWI-EAS443:3:88:352:129#0/1  
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+HWI-EAS443:3:88:816:1936#0/1  
`a\_]aa\_a\_Y` `a\_]` `aaa` `a\_\_aaaaba` `\_\_\_\_^` ` \_` `\_  
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+HWI-EAS443:3:88:858:1230#0/1  
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+HWI-EAS443:3:89:1045:1722#0/1  
abba^aabaaabbbba]b` `aba\_aa\_a\_\_\_\_\_aV` ^aa` \_  
@HWI-EAS443:3:89:1240:1715#0/1  
CGGCTGCATTGAGGGCAATCTTTCCCAAATGTCAAAGAA  
+HWI-EAS443:3:89:1240:1715#0/1  
a[babY`b[b\_[a`Z¥`H\_b\_b[SLZaa][aWMbb` `]` `a  
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+HWI-EAS443:3:89:147:488#0/1  
aWZW^Wa]PP¥a` `¥ZJO^` `^W¥^Y` `^` ` `WVQ`LNPYV  
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GGGGTCTATATGAAGCAATCGAGGAGTGCTGATTAATGA

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abbabb`[babaaababbbb]b\_`[babaa\_ba`b`\_b`b  
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+HWI-EAS443:3:8:1042:804#0/1  
aa\_a`a`ba`ba\_baaX`\_`aa\_¥`aaaa]a`aW\_\_`\_]\_\_  
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+HWI-EAS443:3:8:1591:168#0/1  
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+HWI-EAS443:3:8:1689:1134#0/1  
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+HWI-EAS443:3:8:1759:845#0/1  
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+HWI-EAS443:3:8:411:1503#0/1  
aaa`aa`Xa\_`aY\_]W)`a`\_`^a`\_\_\_\_`\_]\_\_[``^]U  
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+HWI-EAS443:3:8:564:1634#0/1  
aa\_¥T\_Za\_^\_a`b`Yab`YYa\_G`Ha`^]V`¥`Z¥\_U^\_  
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+HWI-EAS443:3:90:1420:171#0/1  
^¥`\_¥Ub`W\_\_V[[MV\_b]]]Pa`UXFV]¥Q[QS]GaSPZ  
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+HWI-EAS443:3:90:363:816#0/1  
ab]aa`aUaaaaa``aba``a\_a``a\_`\_\_aa]\_`¥a]a  
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+HWI-EAS443:3:90:47:1050#0/1  
``Ja¥¥`a`aaaa^a¥a][XXW¥a^a^a`a[^aa^\_\_G\_  
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[^\_\_ab`a``aaaa¥`aaaaaaaa\_a^aaaaa\_aWa]  
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+HWI-EAS443:3:91:1085:204#0/1  
ab`a`b\_H^baaaa`]\_\_\_\_aaaa\_a^\_aaG\_PST`^V^  
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``^aba\_Y]aYa[aab[baab\_ab\_[aa^a\_a\_a\_[`a\_`  
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R`a`Vb[``\_b¥b¥¥Va```aa`bba\_b``JbXbb`bba]  
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+HWI-EAS443:3:91:1717:173#0/1  
aaa¥\_\_b`abba¥`a`bbabbabb]bbaa^bbbb`^ab\_b  
@HWI-EAS443:3:91:298:574#0/1  
GCACCAGAAAAAGTAGACTTTGATGACTGCGAAGATGTTG  
+HWI-EAS443:3:91:298:574#0/1  
aZKX^SNL¥¥YOWG^\_`SZYW]WIXWWWXIHMMWUOIHZ  
@HWI-EAS443:3:91:316:1913#0/1  
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+HWI-EAS443:3:91:316:1913#0/1  
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+HWI-EAS443:3:91:860:954#0/1  
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CGATTTGAGTTAATTGAAGGAAGAGACCGAATCATGGCCT  
+HWI-EAS443:3:92:1157:719#0/1  
S`\_¥aW[avi^bbaab\_0\_\_b\_S[baIabZ\_N]aaba]X]  
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+HWI-EAS443:3:92:1493:1745#0/1  
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\_`ba¥Ybbabb`bbbbbaabbbbaabbaaabbababab`  
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+HWI-EAS443:3:92:865:1433#0/1  
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+HWI-EAS443:3:92:899:1961#0/1  
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+HWI-EAS443:3:93:1091:1874#0/1  
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+HWI-EAS443:3:93:1339:378#0/1  
\_b`Zaabb`bbb¥\_ab\_``TYa]`ZZbY``YTG^aZ\_a\_^  
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+HWI-EAS443:3:93:1568:1875#0/1  
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+HWI-EAS443:3:93:354:1375#0/1  
abaaa`baaa]aaaaaa`a\_a`a[a`\_a\_\_\_\_\_^^Y\_^a

@HWI-EAS443:3:93:482:1678#0/1  
ATGACTTTCAGCTGATCCCAATGGTAAGCAAATGTAGGAC  
+HWI-EAS443:3:93:482:1678#0/1  
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+HWI-EAS443:3:93:511:1831#0/1  
a]WQ[aZ\_`aa`aYN^a]^`aZ\_\_]^`^]]Y^`^]\_\_¥Y]  
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a\_aa`W\_a`¥`b[`aa\_a`aaaaZ[\_aaa\_``a¥W[\_\_\_`^  
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+HWI-EAS443:3:94:765:1558#0/1  
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+HWI-EAS443:3:94:893:1089#0/1  
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+HWI-EAS443:3:95:1040:240#0/1  
I^a^\_b\_\_a`a\_\_`a`\_]\_bbb```bbbaZbbb\_babaa  
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a[\_aaab`ab`bba`aa[KV`ba`b[Z^a\_[-a`\_``^`\_  
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Yb¥Saba\_\_\_b\_[a¥U\_^Uaaaaba¥W\_T`QYQT\_HZ]Vb  
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+HWI-EAS443:3:97:144:1862#0/1  
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+HWI-EAS443:3:97:649:918#0/1  
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+HWI-EAS443:3:98:422:1790#0/1  
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ZQ¥````\_\_a¥¥Sa¥L`a¥X¥`^aa\_QaX[`^¥\_Z]]R[  
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¥^bbb`b^b`abbb`[a\_`\_babb^b`Zbbab¥\_abab\_b  
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aLXYaTWaa\_¥F^[\_`aab\_¥ZMY\_\_a\_a`W^\_\_\_^\_`^  
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^bb0a0ab`¥¥baa`aaab`YR^ab`ZZF\_\_bT]a`a^a]  
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+HWI-EAS443:3:12:63:1049#0/1  
a`a^`Z¥]`^\_[```````````\_W^\_W¥`\_`\_]\_\_\_\_]Y  
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¥TGRYaaaXaa`U^aaal¥]`Z`\_\_^W`\_]`WY\_W^\_X  
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+HWI-EAS443:3:49:1757:819#0/1  
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+HWI-EAS443:3:4:1467:1965#0/1  
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+HWI-EAS443:3:4:350:235#0/1  
a`¥^aa^\_Xa`YUZ]aVYY`a\_]`Y^`]]Q¥R[¥^XLOV  
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+HWI-EAS443:3:51:75:1320#0/1  
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ab`ZXXaaaaa`aV^a\_P¥``\_[X\_Y\_¥¥\_YMQN^VXH  
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a\_\_aa^aabbaaaa\_``\_Z¥a\_`^Raa\_a¥`]Z\_a```\_[¥  
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aa\_baaabaaaaa^a^\_a`\_a\_aaa\_aaa^a`a\_a\_\_\_^¥  
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a[b\_W\_[ZI¥aTUYI¥[\_`aa`ZX\_aU¥``aa¥HaG^\_^F

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a\_aa`\_a^¥a`aaa\_\_a^\_\_Y]a\_Z\_^]]W`Z^^\_VaZ[  
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+HWI-EAS443:3:72:426:1412#0/1  
\_``U]Z]]``^Q^a\_\_a¥Y[X^¥UURQ^BBBBBBBBBBB  
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+HWI-EAS443:3:78:984:258#0/1  
a^a^RSS¥aa`\_^XT^a\_\_\_\_Z^ZL¥X^ZP\_[NBBBBBBB  
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+HWI-EAS443:3:80:798:1577#0/1  
aUYXaba` `ZY` `a^^^][\_] [WU¥[QZYQYTZVR\_ZDFY  
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+HWI-EAS443:3:83:1042:1153#0/1  
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+HWI-EAS443:3:83:70:2024#0/1  
`\_ba`\_`aZb` `G`^¥aa`\_a[PR]\_S`\_aa[H[]`a\_`¥  
@HWI-EAS443:3:84:822:851#0/1  
AGAAGTTCGGTGGGAGACTTTGGTCGGCAAGCTTGCGAGA  
+HWI-EAS443:3:84:822:851#0/1  
aa^TbN`a`UYa\_a^`Z`^]Z`¥Qa\_^[W]VYV^\_G`^U  
@HWI-EAS443:3:85:986:593#0/1  
CCTCGATTGAACATATCGCAAGCATGAGGAGGAACATTT  
+HWI-EAS443:3:85:986:593#0/1  
]aabbbbbbbbabbbbabba`babbbbbbababababab  
@HWI-EAS443:3:86:1209:63#0/1  
AGGGTACATAAATACGGCCTTGCTCAATGCATCCTGTGCA  
+HWI-EAS443:3:86:1209:63#0/1  
^ZKaWJ^bba][bbaa\_¥VR^a`a\_\_` `aaa\_YY`]R]FW  
@HWI-EAS443:3:88:485:1887#0/1  
ACCGAATCATGGCCTGGACAGTGGTGAACAGTATATGGAA

+HWI-EAS443:3:88:485:1887#0/1  
a`^]^^`X`R`\_aa\_¥V\_¥VaZUX[YU[¥T`\_^Q^X^\_  
@HWI-EAS443:3:89:630:1833#0/1  
AGCCTATGTAGATGGATTTCGAGCCGAACGGCTGCATTTAC  
+HWI-EAS443:3:89:630:1833#0/1  
\_W^a\_bY]^b`a^`Z^YF]]T[`aRUQBBBBBBBBBBB  
@HWI-EAS443:3:8:773:1316#0/1  
TGCATATTGCAGCAAAC TTGTTAGTTTCGATTTTCGGGTG  
+HWI-EAS443:3:8:773:1316#0/1  
aabaab\_abbaXU^a^aaaa^a`\_`aaa`]^`^`\_SOZUZB  
@HWI-EAS443:3:91:980:888#0/1  
GCCCTGCTCTTCGTCAAGGGTGTAGTCCGCTTTGGGGG  
+HWI-EAS443:3:91:980:888#0/1  
aRDQRZZ[¥[`¥VMOUPNU`XMK`R¥YYPMPFOX¥¥XBBB  
@HWI-EAS443:3:94:212:710#0/1  
ACACAGCTTGCTAGAGATCTGGGCTCTGGCTCATCACTGT  
+HWI-EAS443:3:94:212:710#0/1  
a\_G`]a`a`a`a\_a`\_`^`\_`^`]\_]\_\_^^]]^Y`^X]^Y]W  
@HWI-EAS443:3:95:243:1580#0/1  
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+HWI-EAS443:3:95:243:1580#0/1  
abbabbbb]bbaabababa`babaaaa`ba\_aaaaa`aa`  
@HWI-EAS443:3:96:1311:726#0/1  
ATGCATCCTGTGCAGCCATGGATGACTTTTCAGCTGATACC  
+HWI-EAS443:3:96:1311:726#0/1  
\_\_KZb[UYYa0a\_abUX^\_bQa\_b[Ua\_\_GZbWUPa]GNB  
@HWI-EAS443:3:96:942:999#0/1  
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+HWI-EAS443:3:96:942:999#0/1  
a`X¥aaaaa`aaRTXa`\_XZ[H]¥[\_V^QZ¥¥`¥VG`^\_B  
@HWI-EAS443:3:97:938:1686#0/1  
GAGGAAGAGAGCAGGGCAAGAATCAAAACTAGGCTTTTCA  
+HWI-EAS443:3:97:938:1686#0/1  
\_¥N`[]TPY[S]HNP`a[aaaX]Wa^\_]YFZOHVK]Y[^[  
@HWI-EAS443:3:98:1429:1313#0/1  
GGGCACTCGGTGAAAATATGGCACCAGAAAAAGTAGAGTT  
+HWI-EAS443:3:98:1429:1313#0/1  
aa``]¥[¥bbYbaa\_Za`aa\_[\_VYa``\_]Q\_`G\_\_TQYY  
@HWI-EAS443:3:98:828:1156#0/1  
GAAAGGCATAAATCCCAATTACCTCATGGCTTGAAGAAG  
+HWI-EAS443:3:98:828:1156#0/1  
^b]b]\_a`aaaa`]aY\_¥aaaX¥a¥a\_a`\_aZWU\_[BBBB  
@HWI-EAS443:3:99:1198:1006#0/1  
AGATGTTGGAGACCTTAAACAGTATGACAGTGATGAGACA  
+HWI-EAS443:3:99:1198:1006#0/1  
¥^\_bbabbb[aaSY¥`¥aaaaaaa`\_Q[T]U^`\_a]XDNZ  
@HWI-EAS443:3:10:560:1558#0/1  
CGAATGCACTATTGAAGCACCGATTTGAGNTAATTGAAGG  
+HWI-EAS443:3:10:560:1558#0/1  
`bba`bbaa\_b[Vb^`aba\_^\_YT\_YYY[D[a\_aaa^``\_`

@HWI-EAS443:3:15:1073:274#0/1  
GGTGAACCTTTGTAAGTATGGAGNTCTCACTCACTGACCCG  
+HWI-EAS443:3:15:1073:274#0/1  
aa¥aa¥`aaaa[ `aVa`a^VWD[[\_a^`\_a¥` `a\_ZN`  
@HWI-EAS443:3:15:1414:220#0/1  
CAAATAGTAGCATTGCCACAACACTTTCANTGCATGTGTG  
+HWI-EAS443:3:15:1414:220#0/1  
ab\_abaa`ababbbaaYabba`bbabaa¥D¥bYaab`b\_a  
@HWI-EAS443:3:16:1116:2006#0/1  
CTTGGGGGGCTATATGAAGCAATCGAGGAGTGCCNGATTA  
+HWI-EAS443:3:16:1116:2006#0/1  
``J\_[I`ba^bb\_baaZaaaabaa\_`Z^aaSV`SDX`\_``  
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AAGAGCCTAACATAGTCAAACCACNTGAGAAAGGCATAAA  
+HWI-EAS443:3:16:220:1132#0/1  
abaaaaa`abaaaaa\_aaaaa` `YDWa]\_\_`^`^`[\_`^`\_a  
@HWI-EAS443:3:17:521:1261#0/1  
AATTGANTGATTCAAGCTGGATAGAACTTGATGAAATAGG  
+HWI-EAS443:3:17:521:1261#0/1  
\_aab\_^D^aaaaaaaa` `a` `aa\_aaa`a\_aa`\_a`a\_\_  
@HWI-EAS443:3:17:538:864#0/1  
CATTCTTTGGCNGGAAAGAGCCTAACATAGTCAAACCACA  
+HWI-EAS443:3:17:538:864#0/1  
aa`ZY`Z¥a`^D[b\_a`\_]W¥^a`]\_^a\_W^^`]\_[\_]`^  
@HWI-EAS443:3:17:541:1924#0/1  
CAAACCTGTTANTTTTCGATTTTCGGATCTTCCCATATTC  
+HWI-EAS443:3:17:541:1924#0/1  
aaaa`aabaa[DUaaaWMM` `` `XKPMXNPN\_ZZ\_Wa^V  
@HWI-EAS443:3:22:1311:1531#0/1  
CAAATGAATTCAATAAGNCATGTGAATTGACTGATTCAA  
+HWI-EAS443:3:22:1311:1531#0/1  
]`a^`b¥[ `ba\_aabab]D¥abaSbaba^aaaabaaa]ba  
@HWI-EAS443:3:22:1744:1347#0/1  
GGGGGCTATATGAAGCAATCGAGGAGTGCCTGATTNATGA  
+HWI-EAS443:3:22:1744:1347#0/1  
aaa[aabababa\_a`VZa`^XZa` [ `^a\_UaaX`YDT\_\_Z  
@HWI-EAS443:3:23:1337:727#0/1  
CTCTGCTNGCACCTGCTTCCAAGCCATGAGGTAATTGGGA  
+HWI-EAS443:3:23:1337:727#0/1  
a`\_[aaSD[aa\_\_\_aST\_\_W\_¥[^ZZ¥a¥^\_UWS]\_`U¥W  
@HWI-EAS443:3:23:1776:1538#0/1  
CACCTGCTTCCAAGCCATGAGGTAATTGGGNTTATGCCT  
+HWI-EAS443:3:23:1776:1538#0/1  
a`Y\_babb]]`aK`ULU]babaHWXaabaUDM\_XXa]XL]  
@HWI-EAS443:3:25:1601:980#0/1  
GAGGGGTTTTTCGGCTGAATCGAGAAAATTGNTTCTCATTG  
+HWI-EAS443:3:25:1601:980#0/1  
aaaa\_bUa`a` `\_]a\_b\_¥SX[\_\_`\_a`\_KDZMH]Y\_YR\_  
@HWI-EAS443:3:26:221:1886#0/1  
TACATAGGCTCTAAAGTTTTCAAGGCTGGAGANGTTCGGT

+HWI-EAS443:3:26:221:1886#0/1  
abbbbaaabaaMab\_ZVa]]¥L]a\_a\_a[GWPDLV\_]PZL  
@HWI-EAS443:3:27:245:1750#0/1  
CCCGAATGCACTATTGAAGCACCGNTTGGAGATAATTGAA  
+HWI-EAS443:3:27:245:1750#0/1  
abaaY\_`]aVaZ^\_Z]]\_XaaaaXDX`^[]^W\_``^\_\_[]I  
@HWI-EAS443:3:28:13:161#0/1  
GCACCAGANAAAGTAGACTTTGATGACTGCAAAGATGTTG  
+HWI-EAS443:3:28:13:161#0/1  
\_abbb`]^DUZ^aYb`aaa`a]^aa¥` `a`¥`¥`\_\_a]^\_  
@HWI-EAS443:3:29:445:1915#0/1  
ATATTTTCACCGAGTGCCCACTTCAATNGGCTTGTCTCT  
+HWI-EAS443:3:29:445:1915#0/1  
a`a]\_\_\_aaaaY`VPZ\_\_¥^X^a\_XRDSJXZ]UOZZXBB  
@HWI-EAS443:3:31:383:1239#0/1  
GTCCCACTGCAGGGCTACTGAATACATAATGAAGGGNGTG  
+HWI-EAS443:3:31:383:1239#0/1  
^H\_b`V`Y`\_¥UZ^`Y`Ua]\_Z\_]^^RY`\_YXXQTDSY]  
@HWI-EAS443:3:32:1230:1714#0/1  
CAGTCANTTCACATGCCTTATTGAATTCATTTTGGACCCA  
+HWI-EAS443:3:32:1230:1714#0/1  
a\_Z¥a^D[¥aba\_aQJ¥a`]aaZ]\_aa`[][\_TMVXa\_a`  
@HWI-EAS443:3:32:1443:624#0/1  
GGAGACCTTAAACAGTATGANAGTGATGAGCCAGAGCCCA  
+HWI-EAS443:3:32:1443:624#0/1  
a\_`^`a`ab]]`\_a]^a\_`ZDY`^`¥]]\_]X\_Y]Z]^\_  
@HWI-EAS443:3:35:504:1695#0/1  
CATTTGATTGCATCATNTAGTGGTATTCCTCCCCCTCGT  
+HWI-EAS443:3:35:504:1695#0/1  
aba\_`a]``aa`aa¥DY`]^¥[[^a\_`a`\_aaa]^`^]X  
@HWI-EAS443:3:36:546:1951#0/1  
AAGAATTCCTTGGTCATGTCNTTCTCTTTGACAGAAGACT  
+HWI-EAS443:3:36:546:1951#0/1  
aaaaT\_abb\_a]YGaa`^]UDT``\_a`Y`]^`^`\_\_\_\_]\_`X  
@HWI-EAS443:3:37:1324:411#0/1  
ATTTGTTTTNAAAGAATTCCTTGGTCATGTCTTTCTCTTT  
+HWI-EAS443:3:37:1324:411#0/1  
^\_` `a`^aD^aa`¥`bba` `b\_\_S`\_abGba` ` `aaa\_  
@HWI-EAS443:3:37:261:670#0/1  
CAGGCCATGATTCGGTNTCTTCTTCAATTATCTCAAATC  
+HWI-EAS443:3:37:261:670#0/1  
`Y^¥SYZU`^U\_Z[SKDO¥RV\_Z\_`^VVOOLT^PXXUWMP  
@HWI-EAS443:3:39:1305:517#0/1  
ATCAGCNGGAACCTTTGACCGCTGATGGCAAAGAGGCCCAT  
+HWI-EAS443:3:39:1305:517#0/1  
`¥a^^YD^¥Ta` `a`V\_`¥¥¥`YU¥]]^^^SUUZSSUPVW  
@HWI-EAS443:3:3:1169:1364#0/1  
TGAAGNGAAGATCCCAAGGACAAAGAACATGAAGAGAACA  
+HWI-EAS443:3:3:1169:1364#0/1  
a`^a^DU¥]^`^`^`[]a]WV\_\_\_\_`\_]\_^\_]a\_^a]^\_^^X\_



@HWI-EAS443:3:40:1048:1050#0/1  
CATTAAATCAGGCACTNCTCGATTGCTTCATATAGCCCCC  
+HWI-EAS443:3:40:1048:1050#0/1  
`Ya[^U^`XWa`\_]\_UDUaa`X`\_`MaMZPZZZ[U^`XQ¥U  
@HWI-EAS443:3:42:815:643#0/1  
ATACTGTTCCACTGTCCAGGCCANGATTCCGGTCTCTTC  
+HWI-EAS443:3:42:815:643#0/1  
ab`Zab^]aaa]^X\_`]aa\_a][\_¥DX\_\_`a¥[SW\_SP]]  
@HWI-EAS443:3:46:15:620#0/1  
TTTCAAAGAATTCCTTGGTCATGTCTTNCTCTTTGACAGA  
+HWI-EAS443:3:46:15:620#0/1  
aaa``aabaa`a\_`bY`^^\_aaZ^a[DH\_^a``]]\_\_^  
@HWI-EAS443:3:47:201:1561#0/1  
GGGGCANGGAAATGAGGCGCTGCCTTCTTCAGTCTCTTCA  
+HWI-EAS443:3:47:201:1561#0/1  
aa`]a[D[a\_a^abbaaaa\_\_`STX\_W[a¥\_`[V\_¥\_`¥^  
@HWI-EAS443:3:49:1255:1697#0/1  
AAAATAGTTCCTCCTCANGCTTGGCATATGTTCAATCGGG  
+HWI-EAS443:3:49:1255:1697#0/1  
ababba]Y``¥a¥\_``[DXW[\_a]``\_^`XT[SY\_`TT\_Z  
@HWI-EAS443:3:4:1051:1433#0/1  
AACAAAATAAAAANCTGAGAAGACACACATTACATCTTTT  
+HWI-EAS443:3:4:1051:1433#0/1  
aa^aaaabaa`YD¥a¥¥aa`a`aa]a\_]a[aZa\_]\_^\_`  
@HWI-EAS443:3:50:1268:1472#0/1  
ATTTTCTCGATTAGCCGAAANCCCTCAAGTTGTGGAGA  
+HWI-EAS443:3:50:1268:1472#0/1  
abbabbb]`b`aba]ab^``YDW^ZUTXXM^Z`XRb`aa`  
@HWI-EAS443:3:50:17:636#0/1  
GAAATTTAGGCTTCTCTACCCCTGTTGTNTTACATATACT  
+HWI-EAS443:3:50:17:636#0/1  
^aababbb\_aabbaaab`baa`]]^QXDX`a]``aa`\_a  
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ATCCCAATTACCTCATGGCTTNGAAGCAGGTGCTAGCAGA  
+HWI-EAS443:3:50:872:1701#0/1  
aa[\_`aaaa[\_`^\_aa^\_a[DPQ]ZW]TVWQQ]^ [PUZV  
@HWI-EAS443:3:51:676:949#0/1  
TGGCACCAGAAAAAGTAGACTTTNATGACTGCAAAGATGT  
+HWI-EAS443:3:51:676:949#0/1  
\_baaaa\_]`PZ]^aU0a\_P`S`WDXab\_Z\_`\_\_``]]^[  
@HWI-EAS443:3:52:1071:1218#0/1  
CGTCTCAAGAATGGTTCAATTTTGGCGTTCANTTCTTTT  
+HWI-EAS443:3:52:1071:1218#0/1  
aaa`bbb\_bbbbbbaab]Z`bb\_^][`][¥GDU¥N`aa`  
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+HWI-EAS443:3:53:1303:648#0/1  
aa[D]baabbaabaaba`ababaabb`aaa\_aaaaa`a\_  
@HWI-EAS443:3:53:914:1242#0/1  
AGAGAACAAGCCAATTGAAGTGGGCACTCNGTAAAAATAT

+HWI-EAS443:3:53:914:1242#0/1  
a``\_aaabaa\_a\_aaaa\_\_\_\_]aaa`a`XD]X]\_\_```X  
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+HWI-EAS443:3:55:308:628#0/1  
aaa]ababa^`aa\_a`\_aaa`aa^`aXD[aaU```a\_\_[  
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GCATGGAAATGAGGCGCTGCCTTCTTCAGTCTCTNCAGCA  
+HWI-EAS443:3:56:1386:1042#0/1  
aa¥]Z^NUa\_]XUa\_a¥a\_^P[ZPUUW`\_ZL\_YZDDXSUU  
@HWI-EAS443:3:56:689:11#0/1  
ATCGACGAACGGGGTGAATCAATAATTGTAGAATNTGGTG  
+HWI-EAS443:3:56:689:11#0/1  
\_¥]`Z`\_]XV\_ab\_L\_RY`YX¥^V[a^Y[W[UaZDZW^U`  
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AAGATGTTGGAGACCTTAAACAGNATGACAGTGATGAGCC  
+HWI-EAS443:3:56:75:441#0/1  
aabXabaaba`aa`\_`a```\_`YDZ`a`^^`S`^[^^^W^  
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GGGATCTTCTTTCATNTTCAATGTCCTGTAGCTCTGCTA  
+HWI-EAS443:3:58:1409:502#0/1  
aabZ`baaaaaa`[D[a``\_a\_\_\_\_`a`a```\_`[W`a^\_]`  
@HWI-EAS443:3:5:183:967#0/1  
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+HWI-EAS443:3:5:183:967#0/1  
abbb\_\_bb`abbaa]abaaaaaba^D[aaa^^`a\_aa]B  
@HWI-EAS443:3:60:1128:902#0/1  
CCACTTCAATTGGCTTGNTCTTTCATGTTCTTTGTCCTT  
+HWI-EAS443:3:60:1128:902#0/1  
aaaaa````^Z^]0`]WD¥MXU^^`Y`]RZ\_a```VPXY^[  
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CGATTGGNCATGTTTCCGATTTGTTTTCAAAGAATTCCTT  
+HWI-EAS443:3:61:565:530#0/1  
^abbbba^D]\_¥`]bb^\_ZX^^abUaab\_¥¥a`X[a]Z`[  
@HWI-EAS443:3:63:1116:1572#0/1  
ATTCGGATTTCCATTTTCATCGACGAACGGGGTGAANCAAT  
+HWI-EAS443:3:63:1116:1572#0/1  
abba`¥\_```ZYaaabbb]ZZ`^`\_`\_N[[]][a`VDSXW\_  
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+HWI-EAS443:3:64:1221:1796#0/1  
aa`babb^abaabaaaab`bbabb^aaa^D[aaa`a\_aSa  
@HWI-EAS443:3:65:550:1146#0/1  
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+HWI-EAS443:3:65:550:1146#0/1  
abbbabbbbabbb`abb``aa`a`aa]aaWDYaaaaaaba  
@HWI-EAS443:3:69:1451:1421#0/1  
ACTTCCCTCCGTGTTACTCNAATTTCAATGAACCGTTCT  
+HWI-EAS443:3:69:1451:1421#0/1  
aaaa^aT^aYa[V]¥Y]\_WDWX`a``a^]]a^`\_`¥X[[Z

@HWI-EAS443:3:71:1169:285#0/1  
AAATNGGAGACATGCTCTTGAGGACTGCGATAGGCCAAGT  
+HWI-EAS443:3:71:1169:285#0/1  
^X^ZD^¥¥Z]a`aa`aaa\_b^b`¥VS¥Ua\_^\_\_¥T¥V^^M  
@HWI-EAS443:3:71:844:1994#0/1  
CATATAGCCCCNAAGATCGAAGGTTCCAGGTTCCAGGTT  
+HWI-EAS443:3:71:844:1994#0/1  
`b`babababbZD^a]b`b\_TY^\_^abb¥FHY^aa`FVW^  
@HWI-EAS443:3:72:1573:628#0/1  
GAACAAGCCAATTGNAGTGGGCACTCGGTGAAAATATGGC  
+HWI-EAS443:3:72:1573:628#0/1  
aaaaabaabaaa¥D[b`aaa\_a\_``aa]a`aa\_`````Z  
@HWI-EAS443:3:72:733:1480#0/1  
CAGATTTTGGCAGTAAGGTCCTGCNCACTTTCCCAATAGA  
+HWI-EAS443:3:72:733:1480#0/1  
`W^\_X]aaababa¥ab`aZab`a[D[a`aa]baa\_]Xa^¥  
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+HWI-EAS443:3:75:1115:735#0/1  
ab``aaa[\_S\_\_[ba[`]U]0]`ZN¥XY\_``U`\_UD]T\_H  
@HWI-EAS443:3:75:1771:988#0/1  
CCGAGTCTTCTGTCAAAGAGAANGACATGACCAAGGAATT  
+HWI-EAS443:3:75:1771:988#0/1  
abaa`abbbabb\_``aab`^a^D[aaaaa`a`aaa\_`\_a  
@HWI-EAS443:3:76:1757:477#0/1  
CAGGCACTCCTCGATTGNTTCATATAGCCCCCAAGATCG  
+HWI-EAS443:3:76:1757:477#0/1  
\_\_bbbbbb^T``\_\_`[D^```baa[^]b]Z¥ba`a\_\_Ub  
@HWI-EAS443:3:79:960:1334#0/1  
GGCAAGCTTTCCCAAATGTCAAAGAAGTGAACNCCAAAA  
+HWI-EAS443:3:79:960:1334#0/1  
a\_`ZI\_a\_aa¥`aa`Y`b\_W]Y[^^FZ[FXaa[D[S\_XZ]  
@HWI-EAS443:3:83:87:1980#0/1  
TCCACTCCCCTGGGTGACTCTNCGATTGGCCATGTTTCCG  
+HWI-EAS443:3:83:87:1980#0/1  
abbbbaabaab`\_\_\_\_R[aa`UDZFL[^\_Z\_aXYSWY^U\_R  
@HWI-EAS443:3:85:1419:602#0/1  
AAGAATTCCTTGGTCATGTCNTTCTCTTTGACAGAAGACT  
+HWI-EAS443:3:85:1419:602#0/1  
abbb`b^X`baaa^\_aaa¥TD^a]bYbaabWN\_aa\_`\_^\_  
@HWI-EAS443:3:86:1158:1360#0/1  
CACCGAGTGGCCACTTCAATTGGCTTGTNCTCTTCATGTT  
+HWI-EAS443:3:86:1158:1360#0/1  
a``babbbba`abbabaabbabbNb`¥¥DNbHba\_a`Z^a  
@HWI-EAS443:3:88:1081:635#0/1  
GGCCTTGCTCAATGCATCCTGTGCAGCCATGGANGACTTT  
+HWI-EAS443:3:88:1081:635#0/1  
Zb`a]aa`b`T`bbbb\_[``bbab`a^aaZbaUD¥`¥b`a  
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+HWI-EAS443:3:88:1250:1472#0/1  
^b`¥DWbbab\_0`abab\_`bbaVb^a`ZJaaababaa^¥^  
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+HWI-EAS443:3:8:943:680#0/1  
aba\_a][^`aa^\_`ZVaaVDX` `a`\_\_aU\_¥\_]\_¥a^`Q  
@HWI-EAS443:3:90:744:190#0/1  
GGGACAANCTGGAACCTGGAACCTTCGATCTTGGGGGGCT  
+HWI-EAS443:3:90:744:190#0/1  
\_\_Tbb`[D[a`X\_b`a\_ba`aab^Zaa^a`bab``^a`[[  
@HWI-EAS443:3:91:1726:1919#0/1  
CAGGCCATGATTNGGTCTCTTCCTTCAATTATCTCAAATC  
+HWI-EAS443:3:91:1726:1919#0/1  
aaaaabbabba^DV`aaaaaa^\_bbXaa`aab\_\_\_\_`adW¥  
@HWI-EAS443:3:91:238:1708#0/1  
GAGNAAGGCATAAATCCCAATTACCTCATGGCTTGGAAAGC  
+HWI-EAS443:3:91:238:1708#0/1  
ZU^D[]\_ZZ` `b][M[Y]^N\_a\_X¥W`[WBBBBBBBBBB  
@HWI-EAS443:3:94:1269:1794#0/1  
AACTTCTCCAGCCTTGAAAACCTTAGAGCCNATGTAGATG  
+HWI-EAS443:3:94:1269:1794#0/1  
``\_b]KZa``a\_\_a]```Y\_\_[\_`^]a\_ODN` `X^\_\_`\_  
@HWI-EAS443:3:94:1677:1734#0/1  
CAGCAAACCTGTTAGTTTTCGATTTTCGGATCTTCCCNATA  
+HWI-EAS443:3:94:1677:1734#0/1  
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@HWI-EAS443:3:94:467:132#0/1  
AATTCCTTGGTCATGTCTTTNTCTTTGACAGAAGACTCGG  
+HWI-EAS443:3:94:467:132#0/1  
a\_\_` `^a\_aa^^]\_aYZ` `XDW\_\_\_\_^\_]Y[\_^^X^XYV^^  
@HWI-EAS443:3:94:83:860#0/1  
AGTGTACATAAATACNGCCTTGCTCAATGCATCCTGTGCA  
+HWI-EAS443:3:94:83:860#0/1  
aa]b` `^aaaS]a\_[DP\_\_\_\_[\_`\_^[^`Z]\_\_\_\_U^^`^W  
@HWI-EAS443:3:97:1558:15#0/1  
ACTGTTTAAGGTCTCCAACATCTTTGCAGTCATCNAAGTC  
+HWI-EAS443:3:97:1558:15#0/1  
a\_abSbaba`SKLaWW`aZ`¥H[``^Y\_BBBBBBBBBBBB  
@HWI-EAS443:3:97:448:1380#0/1  
CCGATTTGNGATAATTGAAGGAAGAGACCGAATCATGGCC  
+HWI-EAS443:3:97:448:1380#0/1  
^b\_Y`a\_[D]abbbbb`ba]`b¥bbbaab\_ababba]a`  
@HWI-EAS443:3:9:1471:1368#0/1  
GGCTGGANAAGTTCGGTGGGAGACTTTGGTCGGCAAGCTT  
+HWI-EAS443:3:9:1471:1368#0/1  
Y`TW\_b¥DVX\_\_^`¥^T¥\_XaaY¥V]X]VYJEWZ[]TRX  
@HWI-EAS443:3:9:960:992#0/1  
GGGGCATGGAANTGAGGCGCTGCCTTCTTCAGTCTCTTCA  
+HWI-EAS443:3:9:960:992#0/1  
aYa][a`[^RXDX]a[¥ZZ` `¥Y[^S[^Y`QUZYV[UU

@HWI-EAS443:3:100:332:640#0/1  
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+HWI-EAS443:3:100:332:640#0/1  
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+HWI-EAS443:3:10:497:1225#0/1  
Zb`W¥\_HQQZ\_a¥Waaaa`X¥]RSKYXPXRRSN\_\_^¥¥^¥  
@HWI-EAS443:3:12:1330:1040#0/1  
GATTGAGGGTTTTTCGGCTGAATCGAGAAAATTGCTTCTC  
+HWI-EAS443:3:12:1330:1040#0/1  
a``aaa``]aZa`[[aa]a^\_\_\_¥¥YVa`^^¥¥`W^¥X^M  
@HWI-EAS443:3:12:1767:148#0/1  
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+HWI-EAS443:3:12:1767:148#0/1  
a\_bT````TaG]SXTSLWa¥[\_\_YBBBBBBBBBBBBBBB  
@HWI-EAS443:3:13:1581:1737#0/1  
AATGAAGGGAGTGACATAAATACGGCCTTGCTCAATGAA  
+HWI-EAS443:3:13:1581:1737#0/1  
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+HWI-EAS443:3:15:1784:803#0/1  
a¥aV¥YW¥0]baaY¥[`[Yaa][P``UaRaa¥]ZBBBBBB  
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+HWI-EAS443:3:16:1619:288#0/1  
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ACCGACGAACGGGGTGAATCAATAATTGTAGAATCTGGTG  
+HWI-EAS443:3:17:725:394#0/1  
[¥\_[QXaI`¥`^\_]Q]`\_]X\_[^PT`X^QZ]GX`¥\_THT^  
@HWI-EAS443:3:18:646:1377#0/1  
CGGGGATCTTCTTTCATTTTCAATGTCCTGTAGCTCTGC  
+HWI-EAS443:3:18:646:1377#0/1  
a\_`[`Kaba]abbT^abaaVS^YU^bQ`Q\_aYaa`\_a\_`^  
@HWI-EAS443:3:19:331:1583#0/1  
GTCCCCGATTGAACATATCGCAAGCATGAGGAGGAECTATT  
+HWI-EAS443:3:19:331:1583#0/1  
^GQZUSQ`]]]bXa\_`^`a¥¥YVU\_\_\_^\_0¥^^S\_^Y[V]  
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CTAGAACACAGTATTTTTCCCATTTGTGTGGCTCCAGTCT  
+HWI-EAS443:3:20:233:380#0/1  
abbaaa``abb¥b`aabaa`a\_aaaa\_a¥`Z\_\_\_a^UM^W  
@HWI-EAS443:3:21:1189:1750#0/1  
TGGAAAGAGCCTAACATAGTCAAACCACATGAGAAAGGAA  
+HWI-EAS443:3:21:1189:1750#0/1  
abb`\_X\_]aSHU^b[\_W¥VS^baV`Q¥SXWX\_`aaJWYGU  
@HWI-EAS443:3:22:1491:966#0/1  
CGGGGGGGCTATATGAAGCAATCGAGGAGTGCCTGATTAA



@HWI-EAS443:3:30:978:536#0/1  
CCGGGCTCTGGCTCATCACTGTCATACTGTTTAAGGTCTC  
+HWI-EAS443:3:30:978:536#0/1  
ab`abaaababa\_aa\_\_`aa]^aaa\_aaaaaa\_\_\_TT\_]  
@HWI-EAS443:3:31:100:488#0/1  
TACAAAGATGTTGGAGACCTTAAACAGTATGACAGTGATG  
+HWI-EAS443:3:31:100:488#0/1  
ababa^aaaa`aaaa`aa\_\_aa`aaaXa\_`Z``XDZZZ  
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TGCGTCTCCACAACCTTGAGGGGTTTTCGGCTGAATCGACA  
+HWI-EAS443:3:31:1040:1397#0/1  
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@HWI-EAS443:3:31:131:957#0/1  
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+HWI-EAS443:3:31:131:957#0/1  
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TTACTTCTTTTGACATTTGGGAAAGCTTGCCCTCAATGCA  
+HWI-EAS443:3:31:29:1680#0/1  
aabbbaaaaaa#W`a`#ZO[^`[]]a`^^\_a\_\_RZ^]a`  
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+HWI-EAS443:3:32:474:934#0/1  
#DP\_\_[RLJ^ZZ^NRV^#`QY[N#^Y#U^VWT#URRB  
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CACAACTTGAGGGGTTTTCGGCTGAATCGAGAAAATTGGT  
+HWI-EAS443:3:34:1678:1563#0/1  
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+HWI-EAS443:3:36:1327:873#0/1  
abbbbbbabbbbaaaaabbaa^`baaa\_``aa\_aaab#aa  
@HWI-EAS443:3:36:1352:210#0/1  
TAGGGGGCTATATGAAGCAATCGAGGAGTGCCTGATTAA  
+HWI-EAS443:3:36:1352:210#0/1  
aabbbaabaaa````#aaZa````ZNa]aSP[aZ^Y#  
@HWI-EAS443:3:36:63:457#0/1  
GCATTCCTTGGTCATGTCTTTCTCTTTGACAGAAGACTCG  
+HWI-EAS443:3:36:63:457#0/1  
]GP\_Z`a^\_\_S[0#ZW`a\_]YZYZ[WJ[[[U[V]#RYX  
@HWI-EAS443:3:36:815:902#0/1  
AGGAATTCCTTGGTCATGTCTTTCTCTTTGACAGAAGACT  
+HWI-EAS443:3:36:815:902#0/1  
Z`S^T#Y`b\_KU\_\_bbb`#`b#V\_a\_a]\_a]P\_]Z]\_`aX  
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+HWI-EAS443:3:38:414:997#0/1  
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GCCCTCCTCATGCTTGCATATGTTCAATCGGGGCAACAT  
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a]a#a#`a\_aaZ#aaaZaaa`a`[\_^`\_T^[[`T#U#  
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+HWI-EAS443:3:3:646:760#0/1  
a`a\_a[ab`abaaba\_[`\_\_\_Za`a#a#aVT)`^U\_^  
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AGCCCGTTTCGTCGATGAAATGGAAATCCGAATACATGAAA  
+HWI-EAS443:3:40:26:1598#0/1  
a)`aba\_`aa^aa\_`^a\_a`^]a\_`\_`^`\_`\_`ZT^G^  
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GCCGAAGAGACAATTGAAGAAAAATTTGAGATTACAGGAA  
+HWI-EAS443:3:42:425:703#0/1  
[G^P\_YVRVXW`a`Y`U`\_a[YPaV]X\_^[[W#U^VYYa  
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+HWI-EAS443:3:43:1220:255#0/1  
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@HWI-EAS443:3:43:323:466#0/1  
GTCATGGAAATGAGGCGCTGCCTTCTTCAGTCTCTTCAGC  
+HWI-EAS443:3:43:323:466#0/1  
aYS`\_aa`````aaa``^`\_`\_\_\_ZZ^WX[[``][#U  
@HWI-EAS443:3:45:1466:211#0/1  
TAGAAATAGGAGACATGCTCTTGAGGACTGCGATAGGCCA  
+HWI-EAS443:3:45:1466:211#0/1  
a`baaaaa`aa`a^`aa`\_`\_`a^`^Z^\_[a[V[[[QSU  
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GNTCAATCGGGGCAACATCTTCTCCTATTTCATCAAGTTC  
+HWI-EAS443:3:47:1346:481#0/1  
#D^aaaaaaaa`]`a\_aa\_aa\_a\_\_a`aaa\_\_`#\_Za\_`]  
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+HWI-EAS443:3:48:299:835#0/1  
a\_`b]ba`bb\_U`aab\_^]ZbaZ\_aa`UUV^[YaQH]  
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+HWI-EAS443:3:48:349:526#0/1  
U#\_Y#\_]PR]XYXZ#^[M#]#X^Y^]X\_N\_XLT[MUZRR  
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+HWI-EAS443:3:4:1295:717#0/1  
`baYab`S`a\_ZU\_] [aa^VUaPX#]#^V\_RV[Y[M^]  
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ACCATTGGGATCAGCTGAAAGTCATCCATGGCTGCACAGG  
+HWI-EAS443:3:4:26:180#0/1  
aa)`^aa^]\_#\_YXY`Z\_`ZURQV^\_\_^Z\_YYP]BBBBBB



@HWI-EAS443:3:4:527:281#0/1  
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+HWI-EAS443:3:4:527:281#0/1  
a```\_^aaaa^aaa\_aaa^\_\_a\_\_a^[\^\_[\^`a^\_^Y  
@HWI-EAS443:3:53:212:1828#0/1  
GGGGAGGAAGTATTTTACAGCAGAAGTGTCCCACTGCAGG  
+HWI-EAS443:3:53:212:1828#0/1  
¥^^^\_ba`Yaa`aaaaba^¥[\_`^¥¥ZZX^]^]UUaZ`VT  
@HWI-EAS443:3:55:1114:327#0/1  
GTCTGGACAGTGGTGAACAGTATATGTAACACAACAGGGG  
+HWI-EAS443:3:55:1114:327#0/1  
a\_\_aaa`\_aa^a\_X``\_\_\_aZ\_\_\_\_aZ\_\_^`]^\_Z^a\_``  
@HWI-EAS443:3:56:431:595#0/1  
CNCCTCTTTCGGACTGACGAAAGGAATCCCATAGACTCCT  
+HWI-EAS443:3:56:431:595#0/1  
VD[\_\_\_`\_`aaa`\_`\_^`a\_\_^a¥N^`Y`\_Z\_]\_\_]^]]  
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GGACTGGAGAGGAGATGGCCACCAAAGCGGACTACACCCT  
+HWI-EAS443:3:57:304:989#0/1  
abaabaaaaaaa]aaa`[\_a]aZaa^aaaa^\_\_^`YSU\_  
@HWI-EAS443:3:58:717:76#0/1  
CACCTATTTTCATCAAGTTCTATCCAGCTTGAATCAGTCAA  
+HWI-EAS443:3:58:717:76#0/1  
abaababbbbaaabaabaaaaaaa`aababa¥a\_`a^`\_`a  
@HWI-EAS443:3:59:1353:1044#0/1  
TCGGGGCTATATGAAGCAATCGAGGAGTGCCTGATTAATG  
+HWI-EAS443:3:59:1353:1044#0/1  
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GAGATGGCCACCAAAGCGGACTACACCCTTGACGAAGAAG  
+HWI-EAS443:3:5:214:341#0/1  
`Uaa`\_````¥\_W^[a^`[\_`a`Z``[]¥`¥Y¥`¥X`¥`B  
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CGTAAATACGGCCTTGCTCAATGCATCCTGTGCAGCCATG  
+HWI-EAS443:3:60:1329:1434#0/1  
YHXbbabb`a^aabbaabaa`abaaa```a`aaa]aaa  
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+HWI-EAS443:3:65:1009:1931#0/1  
a[ZaXa\_aa\_UT][\_a]X[^]X`\_a¥P^^`W][[TBBBBB  
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+HWI-EAS443:3:68:277:743#0/1  
a`abba`aaaab\_a\_a^¥`a\_\_`\_`[^]Z`\_ZS^^`]  
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+HWI-EAS443:3:71:1603:232#0/1  
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+HWI-EAS443:3:72:1243:1864#0/1  
\_¥ba`[\_aS^RX`P[``\_Z\_]aX`R`a[\_`aZY]Z\_\_X\_  
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`\_\_]¥`)\_JZZVa¥a[NY\_X[PUZSJY]]N[UWHW¥BBB  
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+HWI-EAS443:3:77:1650:1999#0/1  
aba\_ZW^¥G`)\_I^¥TZ`UT[S\_SZW\_\_][V[Z\_[SQI[G  
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AGGGCCGTATTTATGTACTCCCTTCATTATGTATTAG  
+HWI-EAS443:3:79:471:1365#0/1  
WX[[]baY\_\_a¥¥\_YVab\_WO[Z\_¥T\_]\_TQ¥[VXVT]a^  
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CATGAAGACATTCTTTGGCTGGAAAGAGCCTAACATAGAC  
+HWI-EAS443:3:80:361:1202#0/1  
aY]aaa\_aaaaZ]¥[XT¥aVXZUJ\_¥^[Q[\_a]VYX`VHX  
@HWI-EAS443:3:80:618:1976#0/1  
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@HWI-EAS443:3:83:1084:1389#0/1  
GATGGGCTCTGGCTCATCACTGTCATACTGTTAAGGTCT  
+HWI-EAS443:3:83:1084:1389#0/1  
a`a\_aaa`\_aaaaaaaaaa\_aa^aaaa\_a^a\_`^[\_]`\_  
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GGCTTTCTCATGTGGTTTACTATGTTAGGCTCTTCCAG  
+HWI-EAS443:3:83:244:143#0/1  
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+HWI-EAS443:3:85:1372:1416#0/1  
WD[baa]`a]ab\_0^aaaa\_aaa^\_`XUaaaa[]aXaa[  
@HWI-EAS443:3:87:795:605#0/1  
GGGGCTTTTCACTATAAGACAAGAAATGGCCAGTAGGAGT  
+HWI-EAS443:3:87:795:605#0/1  
G^\_XbY¥`\_Waa\_[[`Vbb\_\_`Ubb[bba]UbaJM[bb[[  
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TCATTTTGGACCCAGCTTGCTAGAGATCTGGGCTCTGGAT  
+HWI-EAS443:3:8:1322:57#0/1  
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+HWI-EAS443:3:8:436:1054#0/1  
aa`Z]aa\_T\_]^aa`^]a¥\_^`\_`ZV\_`TTZZWT¥TDL  
@HWI-EAS443:3:90:1444:1362#0/1  
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+HWI-EAS443:3:90:1444:1362#0/1  
aY\_] [VV[YO[a\_X\_\_a¥Z[a¥VW]a`[^Zaa^SFQVYKY

@HWI-EAS443:3:93:953:640#0/1  
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+HWI-EAS443:3:93:953:640#0/1  
abbabbbabab¥aaaaa\_aaa\_aa¥`a`aN\_\_aa[a`MDX  
@HWI-EAS443:3:94:884:877#0/1  
TCCATTTTCATCGACGAACGGGGTGAATCAATAATTGTATG  
+HWI-EAS443:3:94:884:877#0/1  
aabbaaaaa`a`a`]\_\_\_\_\_]aZ^\_\_\_\_`\_\_\_\_`[S^`\_0\_\_¥  
@HWI-EAS443:3:98:460:98#0/1  
CATTTGTGTGGCTCCAGTCTCGGGTCAGTGAGTGAGAAAT  
+HWI-EAS443:3:98:460:98#0/1  
abba[\_R\_\_b]\_b\_`b¥\_¥\_PbbGHY^YSGaGaJXG\_QW  
@HWI-EAS443:3:99:412:2005#0/1  
TACATATACTGTTCACTGTCCAGGCCATGATTCGGCC  
+HWI-EAS443:3:99:412:2005#0/1  
\_a`bab\_bb\_USa`abVbaa[XUU`aaJJ\_P]a]a[aZBB  
@HWI-EAS443:3:100:875:1337#0/1  
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+HWI-EAS443:3:100:875:1337#0/1  
aa`OWQ[YXVY\_Z`aW\_TRZ\_]aUXJOYV¥X`]`XUWXBB  
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+HWI-EAS443:3:10:79:2046#0/1  
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@HWI-EAS443:3:11:367:597#0/1  
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+HWI-EAS443:3:11:367:597#0/1  
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@HWI-EAS443:3:12:1081:942#0/1  
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+HWI-EAS443:3:12:1081:942#0/1  
aaaaJ]Y]aTaa¥ZYUa\_\_Y`RV\_Y\_¥VXW\_¥[NT[T\_V  
@HWI-EAS443:3:12:1346:185#0/1  
CGGCGTTCACCTTCTTTTGACATTTGGGAAAGCTTGCCCTC  
+HWI-EAS443:3:12:1346:185#0/1  
aaa\_b\_aaa^aaS]aa]X¥R`\_`a^`a¥`^a¥`\_U[T¥^W  
@HWI-EAS443:3:12:1720:1109#0/1  
NTGAGAAGCAATTTTCTCGATTGAGCCGAAAACCCCTCAA  
+HWI-EAS443:3:12:1720:1109#0/1  
DLVQVVXYXVYYXVXRYUXRRYXVOGWXXUYVXUXYXBB  
@HWI-EAS443:3:13:735:793#0/1  
ATGGGGGGCTATATGAAGCAATCGAGGAGTGCCTGATTAA  
+HWI-EAS443:3:13:735:793#0/1  
aabaa^`aaabaaa]a`aaa\_a\_`[a\_]a^aU^`a\_^]\_\_  
@HWI-EAS443:3:13:891:1359#0/1  
TGCCCCCAAGATCGAAGGTTCCAGGTTCCAGGTTGTCCC  
+HWI-EAS443:3:13:891:1359#0/1  
WW\_b\_\_XW^]Q]a\_YQVSTYZ¥Y¥ZWMTZSNX^TUZTONE  
@HWI-EAS443:3:14:1138:282#0/1  
GCTCCCTTATTATGTATTGAGTCCCTGCAGTGGGACA

+HWI-EAS443:3:14:1138:282#0/1  
a[\_`a`\_`¥`\_^`a^`\_^]`U\_\_^ZU]a]Y\_Y\_V^USY  
@HWI-EAS443:3:14:1561:1533#0/1  
CGGTCTCCAACATCTTTGCAGTCATCAAAGTCTACTTTTT  
+HWI-EAS443:3:14:1561:1533#0/1  
a`^Sa]^UU¥M[¥T¥¥0ZL^b`^U`^a\_WbWJYaZY][Ya  
@HWI-EAS443:3:15:1499:1027#0/1  
AGGGGGGCTATATGAAGCAATCGAGGAGTGCCTGATTAAT  
+HWI-EAS443:3:15:1499:1027#0/1  
\_¥a\_^a\_T\_abb\_]abbab^ZX`^U`^Z\_\_aab`][a  
@HWI-EAS443:3:15:1647:1829#0/1  
GTGAAATTAAGTATTGAAGACCCGAGTCACGAGGGGGAGG  
+HWI-EAS443:3:15:1647:1829#0/1  
G[¥\_¥abb`baba`¥`¥`YRXS\_\_aOGZ`^bbba\_aba  
@HWI-EAS443:3:16:1159:231#0/1  
CCCCATTTGTGTGGCTCCAGTCTCGGGTCAGTGAGTGAGA  
+HWI-EAS443:3:16:1159:231#0/1  
ab`^aaaa^a]aa\_\_^XU\_W^¥^^\_aWZTXK^UWS^UVQ  
@HWI-EAS443:3:16:319:1530#0/1  
CAGTGGGCACTCGGTGAAAATATGGCACCAGAAAAAGTAG  
+HWI-EAS443:3:16:319:1530#0/1  
^RXRZSRa[PXTOPFMXRaa\_a^^^\_]¥a[`W]^\_VPX^W  
@HWI-EAS443:3:16:736:650#0/1  
CCCCTGTTGTGTTACATATACTGTTCCACTGTCCAGGA  
+HWI-EAS443:3:16:736:650#0/1  
`a^M^]V[UbIT^]abZa\_¥ba\_aXaa`a[`a¥¥^Z`^G  
@HWI-EAS443:3:17:1178:733#0/1  
CGGGGGGCTATATGAAGCAATCGAGGAGTGCCTGATTAAT  
+HWI-EAS443:3:17:1178:733#0/1  
]`bbbX`abbabaaa\_ZW\_aabaa`ZJ¥T^¥aaa\_\_\_a\_\_\_  
@HWI-EAS443:3:17:1292:349#0/1  
CCCCTTTGGTGGCCATCTCCTCTCCAGTGAATGAAAAGA  
+HWI-EAS443:3:17:1292:349#0/1  
ababZabaab\_ba`^\_\_\_a\_[^^a[[`a\_a`a`^`¥\_ZX`¥  
@HWI-EAS443:3:17:1624:676#0/1  
CGTCCTTGGGATCTTCTCTTCAATGTCCTGTAGC  
+HWI-EAS443:3:17:1624:676#0/1  
\_bbbabbbba\_aabbbbabbbbabbbaba\_\_aaaa`  
@HWI-EAS443:3:17:1774:546#0/1  
ACGGGGCAACATCTTCTCCTATTTCAATCAAGTTCTATCCA  
+HWI-EAS443:3:17:1774:546#0/1  
`]a¥a\_W^`SVa^]]Ta^[a\_a\_\_\_`a[`^`]\_\_a`^XZ`  
@HWI-EAS443:3:17:233:314#0/1  
CGGGGGGCTATATGAAGCAATCGAGGAGTGCCTGATTAAT  
+HWI-EAS443:3:17:233:314#0/1  
a\_I\_\_¥¥T`\_Sa\_aW¥Q\_a^0]STFR\_Na[X\_[P¥YPY`  
@HWI-EAS443:3:17:384:60#0/1  
CGGGGGGCTATATGAAGCAATCGAGGAGTGCCTGATTAAT  
+HWI-EAS443:3:17:384:60#0/1  
ab\_aaa`a`a^a`a\_a]\_\_^\_¥\_`^^W`]]¥\_UWHP¥¥

@HWI-EAS443:3:17:442:146#0/1  
GGTGGTGAACCTTTGTAAGTATGGAGTTCTCACTCACTGAC  
+HWI-EAS443:3:17:442:146#0/1  
ab]ba]a\_`aaa`\_`a`Za``\_\_^^^`\_\_`^^`\_¥\_\_¥  
@HWI-EAS443:3:17:667:592#0/1  
CGGCTTCTTACCCCTGTTGTGTTACATATACTGTTCCACC  
+HWI-EAS443:3:17:667:592#0/1  
ab`aaa`Q]Waa`b¥VPS^[J^Z\_TKVRZZ\_^Z^^WR[[R  
@HWI-EAS443:3:18:1372:969#0/1  
TTCCCAATTACCTCATGGCTTGAAGCAGGTGCTAGCAGA  
+HWI-EAS443:3:18:1372:969#0/1  
aa`V]aa`a`[aa\_\_a^^\_\_^]V[ZVNNLSHU[[LR\_V  
@HWI-EAS443:3:18:1464:787#0/1  
CGGCCATGTTTCCGATTTGTTTTCAAAGAATTCCTTGGTC  
+HWI-EAS443:3:18:1464:787#0/1  
aaaa`aaaaabaaa\_aaab\_aaaa`\_a`^^`a``aaa\_^^  
@HWI-EAS443:3:18:1525:508#0/1  
AACAAACTTCCAAATGTGTGCATATTGCAGCAAACCTGTA  
+HWI-EAS443:3:18:1525:508#0/1  
aaaaaaaaaY\_a`\_a`[a\_`\_]\_a^`\_a]a\_Y``\_]`\_^^]  
@HWI-EAS443:3:19:1072:754#0/1  
GCCCCGTTTCGTCGATGAAATGGAAATCCGAATACATGAAAC  
+HWI-EAS443:3:19:1072:754#0/1  
aaYaaaZRTN\_bVVWFLVXY]OUYW]`ZKX^\_\_\_\_\_YU^U  
@HWI-EAS443:3:19:1412:1889#0/1  
AGGGGGGCTATATGAAGCAATCGAGGAGTGCCTGATTAAT  
+HWI-EAS443:3:19:1412:1889#0/1  
a^V^\_X`¥aaababaaa\_a`[`]Za^^`U^Ya\_\_\_aaZ``  
@HWI-EAS443:3:19:263:1173#0/1  
CGCCGAGTCTTCTGTCAAAGAGAAAGACATGACCAAGGAA  
+HWI-EAS443:3:19:263:1173#0/1  
a`\_]`a\_0¥¥`\_Y[U\_\_\_Y\_V\_Z]\_^^[QU[\_XZ\_\_\_]]^^  
@HWI-EAS443:3:20:1008:374#0/1  
GCGATTTGTTTTCAAAGAATTCCTTGGTCATGTCTTTCTC  
+HWI-EAS443:3:20:1008:374#0/1  
I\_`^Z\_\_]Y\_VZ^aYa[bb`Z`baZ\_JJ¥bab`^]ab^``  
@HWI-EAS443:3:20:1274:228#0/1  
TGGGGTTTTCGGCTGAATCGAGAAAATTGCTTCTCATTGT  
+HWI-EAS443:3:20:1274:228#0/1  
abbbb\_a¥b\_aa\_aaaaa^a\_a^`\_`aaaUaa^`\_^`a\_]`  
@HWI-EAS443:3:20:823:584#0/1  
CGTTCTCTTCATGTTCTTTGTCCTTGGGATCTTCTCTTCA  
+HWI-EAS443:3:20:823:584#0/1  
aabbbbbbb`bb`babbbba`abbbbaababbababaaa  
@HWI-EAS443:3:20:83:349#0/1  
CGGCTTCTTACCCCTGTTGTGTTACATATACTGTTCCACC  
+HWI-EAS443:3:20:83:349#0/1  
\_OZba`TF¥^VZ¥`^NZNX`TTUVZPY[^Q^TXUUU]NLZ  
@HWI-EAS443:3:21:100:1431#0/1  
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+HWI-EAS443:3:21:100:1431#0/1  
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CGCTAGCAGAGCTACAGGACATTGAAAATGAAGAGAAGAT  
+HWI-EAS443:3:21:423:976#0/1  
`^b\_a`][^]aa`aaaa`aaZ`\_a\_\_ZIY[``a\_\_^\_]`  
@HWI-EAS443:3:22:479:489#0/1  
GGCATGTGAATTGACTGATTCAAGCTGGATAGAACTTGAA  
+HWI-EAS443:3:22:479:489#0/1  
abaaaa¥baaaaa`ba`\_a\_a\_aaaaa\_aaa\_a]a\_a\_G  
@HWI-EAS443:3:23:450:117#0/1  
CGTCCTGTAGCTCTGCTAGCACCTGCTTCCAAGCCATGAG  
+HWI-EAS443:3:23:450:117#0/1  
abba` `[Zbbaa`J`\_U]aa`a^^aXVO\_\_XX[^\_V^\_U`  
@HWI-EAS443:3:23:917:1121#0/1  
TAGGTCTCCAACATCTTTGCAGTCATCAAAGTCTACTTTT  
+HWI-EAS443:3:23:917:1121#0/1  
Y[]\_S¥WSS]X\_¥SFY\_ZP\_\_\_W\_\_\_ZZS¥ZV\_\_VOZR]U  
@HWI-EAS443:3:24:236:1236#0/1  
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+HWI-EAS443:3:24:236:1236#0/1  
aaa`bbXbaaa`[aaZ^\_[aa`a\_aaaaaaba]aaaaa^  
@HWI-EAS443:3:24:48:952#0/1  
CGTCCTTGGGATCTTCTTTCATTTTCAATGTCCTGTAGC  
+HWI-EAS443:3:24:48:952#0/1  
aa\_aa\_\_aaa^]aa`\_]a\_\_a¥a\_``\_a`[\_W``¥^X\_Ua  
@HWI-EAS443:3:25:181:1034#0/1  
GGCCTATGTAGATGGATTGAGCCGAACGGCTGCATTGAG  
+HWI-EAS443:3:25:181:1034#0/1  
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@HWI-EAS443:3:25:705:381#0/1  
NGAGCCAGAGCCCAGATCTCTAGCAAGCTGGGTCCAAAAT  
+HWI-EAS443:3:25:705:381#0/1  
DPWVVXWWWXXWWWVYYUXXYYXUYUXXXXXXXTWVWYXY  
@HWI-EAS443:3:26:1251:60#0/1  
TCCCTGCTCTTTCGTCAGGGTGTAGTCCGCTTTGGTGG  
+HWI-EAS443:3:26:1251:60#0/1  
a^`aa^]YG`a`^aZ^]\_^\_]U`P^^U¥U`W^¥¥]^U^]  
@HWI-EAS443:3:26:149:710#0/1  
GCGGGTCTTCAATACTTAATTTAGAGCATCCATCAGCAG  
+HWI-EAS443:3:26:149:710#0/1  
abab`Gbaaa\_aaaaaaaaa`aa^]aa\_aa\_`aa\_aa\_  
@HWI-EAS443:3:26:1621:253#0/1  
GAATAATTGTAGAATCTGGTGACCCGAATGCACTATTGAA  
+HWI-EAS443:3:26:1621:253#0/1  
I\_bbVab```bbaVbaabbb¥aY^Vb¥bbbXSJ`¥\_b¥^`  
@HWI-EAS443:3:27:981:1676#0/1  
CGTCCTGCACACTTTCCCAATAGAGCCTTCCCTCCACTCCC  
+HWI-EAS443:3:27:981:1676#0/1  
`^¥\_\_aZ\_\_^a`a\_`\_a`aaaaR```[[^`\_X¥^`^`^]X

@HWI-EAS443:3:28:192:595#0/1  
CATCGGGCAACATCTTCTCCTATTTTCATCAAGTTCTATC  
+HWI-EAS443:3:28:192:595#0/1  
aa]a`bbbaaa`abaaa`aaabbabb\_a^XV]ab`aab  
@HWI-EAS443:3:28:252:1225#0/1  
GACCCAGGGGAGTGGAGGAAGGCTCTATTGGGAAAGTGTG  
+HWI-EAS443:3:28:252:1225#0/1  
HXabbbb]`b¥babbbbb`b]bbba^`ba\_bbbab]b^]  
@HWI-EAS443:3:28:349:738#0/1  
GGCTGGGTCCAAAATGAATTCAATAAGGCATGTGAATTGA  
+HWI-EAS443:3:28:349:738#0/1  
a\_baabaYbababaa]^abbaaaaa`aaaa\_a`aaaa  
@HWI-EAS443:3:28:535:2029#0/1  
CGGGGGGCTATATGAAGCAATCGAGGAGTGCCTGATTAAT  
+HWI-EAS443:3:28:535:2029#0/1  
ab`^aaab`baaaaa\_aaa`a`\_]`\_`a^\_\_^\_\_aZR  
@HWI-EAS443:3:29:883:979#0/1  
GCCCCGTCGTCGATGAAATGGAATCCGAATACATGAAAC  
+HWI-EAS443:3:29:883:979#0/1  
aabab[abbabbaaa`abaaaabaa`aaaab`a\_a\_aa\_  
@HWI-EAS443:3:2:1549:1088#0/1  
CGGCCAGTAGGAGTCTATGGGATTCCTTTCGTCAGTCCGA  
+HWI-EAS443:3:2:1549:1088#0/1  
abbabab[]bbaba\_b\_baa\_\_aaaZaabNa\_Z\_b^RZaZ  
@HWI-EAS443:3:2:360:857#0/1  
CGGGGCATGGAAATGAGGCGCTGCCTTCTTCAGTCTCTTC  
+HWI-EAS443:3:2:360:857#0/1  
`b`[ab\_aaba^a\_\_F¥\_a^UaXT`aU]\_S]`W\_`VZVS  
@HWI-EAS443:3:30:1444:1125#0/1  
GACCGTTTCATTGAAATTGGAGTAACACGGAGGGAAGTCC  
+HWI-EAS443:3:30:1444:1125#0/1  
ababbaababbb]aaabbb^ab]aa`aaaa`aa\_a`]^]  
@HWI-EAS443:3:30:247:2020#0/1  
TTAGTGGTATTCCTCCCCCTCGTGAAGTCCGGTCTTCAAT  
+HWI-EAS443:3:30:247:2020#0/1  
\_Za]X\_]YS\_abba`bbba^a]]]`a^\_NRZYa^ZX^`V  
@HWI-EAS443:3:31:1708:640#0/1  
CATGAGAAAGGCATAAATCCCAATTACCTCATGGCTTGGG  
+HWI-EAS443:3:31:1708:640#0/1  
aaT[Tb[``^\_Ib`UaabaTzaabaa\_T`Xa[ZYPV]aBB  
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ACCCGTTTCGTCGATGAAATGGAATCCGAATACATGAAAC  
+HWI-EAS443:3:31:406:1710#0/1  
aaab`Y\_\_RP\_]`^ZZ¥^X¥XZ][U\_`[^]W\_NTUS\_\_\_N  
@HWI-EAS443:3:32:1118:232#0/1  
GGGGGCATGGAAATGAGGCGCTGCCTTCTTCAGTCTCTTC  
+HWI-EAS443:3:32:1118:232#0/1  
abb^aababa`]aaaa`\_aa^aW^`\_\_\_^\_¥`¥V``¥¥W  
@HWI-EAS443:3:33:1351:961#0/1  
CGCCAATCGGAGAGTCACCCAGGGGAGTGGAGGAAGGCTC

+HWI-EAS443:3:33:1351:961#0/1  
aaaaaaaa`a`aaaaaaaa`a`aaa`¥T`a¥`WTT¥^R]Y  
@HWI-EAS443:3:33:1677:491#0/1  
AGGTGCTTCAATAGTGCATTTCGGGTCACCAGATTCTACAA  
+HWI-EAS443:3:33:1677:491#0/1  
aab\_ba]b\_aab`a\_a¥`a`^aa\_V`\_\_¥`a]VVV\_^R]]  
@HWI-EAS443:3:33:889:1074#0/1  
GCGGCCTTGCTCAATGCATCCTGTGCAGCCATGGATGACT  
+HWI-EAS443:3:33:889:1074#0/1  
ab¥]]aaaaa\_aa`\_aaaa`\_`a^a`\_¥Za\_aZ\_¥]\_VW`  
@HWI-EAS443:3:34:725:2042#0/1  
GGTCCTTGGGATCTTCTCTTCATTTTCAATGCCTGTAGC  
+HWI-EAS443:3:34:725:2042#0/1  
aa\_b`^aa`¥a`\_`a`aaa`a`aa`a`\_a`\_`a^¥]¥\_X\_XL  
@HWI-EAS443:3:34:949:304#0/1  
TGTCTCTTCAGCAGATTGAGAGCATGATTGAGGCCGAGTC  
+HWI-EAS443:3:34:949:304#0/1  
aa`aaaaaaaaaaa`aa`\_a`^`a`\_`^`\_Y]V]X^WV  
@HWI-EAS443:3:36:1293:1817#0/1  
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+HWI-EAS443:3:36:1293:1817#0/1  
abbb\_]\_aaabaa\_aaaaa\_]¥]G`]aYY^a^T¥¥\_] [TY  
@HWI-EAS443:3:36:340:250#0/1  
CGGGGTTTTCGGCTGAATCGAGAAAATTGCTTCTCATTGT  
+HWI-EAS443:3:36:340:250#0/1  
abbbaVababb`baabbbbb^aaa`\_aaaa\_aaaaa\_aaw  
@HWI-EAS443:3:36:599:587#0/1  
CGGGGCTATATGAAGCAATCGAGGAGTGCCTGATTAATGA  
+HWI-EAS443:3:36:599:587#0/1  
`a`b`babaaaa`a`aaaa`a`^aX^aa^a]\_a^`\_]\_  
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GGGCTGGAGAAGTTTCGGTGGGAGACTTTGGTCGGCAAGCT  
+HWI-EAS443:3:37:1078:758#0/1  
aa\_^\_aa¥a^]a¥^^`]STEYY^U^^^XNSW[QU^TNTUV  
@HWI-EAS443:3:37:536:1909#0/1  
CACGGGTGAATCAATAATTGTAGAATCTGGTGACCCGAA  
+HWI-EAS443:3:37:536:1909#0/1  
`\_]PXXW`\_]aaa`^¥`\_`Za`aa`^UGZU^`\_`¥a\_  
@HWI-EAS443:3:38:1298:1299#0/1  
GGATTCGAGCCGAACGGCTGCATTGAGGGCAAGCTTTCCA  
+HWI-EAS443:3:38:1298:1299#0/1  
ab`abaa]]aa`\_]aa`aa¥\_\_\_^GUXZ^RR¥[PZ]^RRN  
@HWI-EAS443:3:38:1753:615#0/1  
ATTTTCATCGACGAACGGGTGAATCAATAATTGTAGAATG  
+HWI-EAS443:3:38:1753:615#0/1  
`a`X¥`\_a`U\_b`X^LP`\_[a^0]RY¥[YZTTTLU\_JYPD  
@HWI-EAS443:3:38:188:687#0/1  
AGGCCAATCGGAGAGTCACCCAGGGGAGTGGAGGAAGGCT  
+HWI-EAS443:3:38:188:687#0/1  
a[^`^^`^`a¥`]¥^Y`^^`aX`]¥]K¥S^SPX¥R¥¥^SK



@HWI-EAS443:3:38:569:146#0/1  
CGGGGCTATATGAAGCAATCGAGGAGTGCCTGATTAATGA  
+HWI-EAS443:3:38:569:146#0/1  
a\_baaab`bbaaa`aaa`\_ab[aa[aX\_`VZa[^\_\_\_\_]`]  
@HWI-EAS443:3:38:610:431#0/1  
GCCCCGTTTCGATGAAATGGAAATCCGAATACATGAAAC  
+HWI-EAS443:3:38:610:431#0/1  
aa`Q\_aa\_`U`\_[a¥]a`aa\_a^Y¥aa`\_]VaS`XW``\_U  
@HWI-EAS443:3:38:806:1568#0/1  
CGGGGGGCTATATGAAGCAATCGAGGAGTGCCTGATTAAT  
+HWI-EAS443:3:38:806:1568#0/1  
ababaaaaaaaaa``aaaaaaaa`^\_\_Y^WW\_`^\_\_¥\_¥  
@HWI-EAS443:3:39:766:446#0/1  
TCCCCGTTTCGATGAAATGGAAATCCGAATACATGAAAC  
+HWI-EAS443:3:39:766:446#0/1  
a```aZ]````VS¥VSYUJZYT\_W]YQ[`¥WMQV^^\_[YV  
@HWI-EAS443:3:3:658:491#0/1  
CGGGGGGCTATATGAAGCAATCGAGGAGTGCCTGATTAAT  
+HWI-EAS443:3:3:658:491#0/1  
aabbbaabbaaa^¥ababaa`b\_a`\_a¥a¥X`a\_`aa``  
@HWI-EAS443:3:40:1241:358#0/1  
GGGTGAATCAATAATTGTAGAATCTGGTGACCCGAATGCC  
+HWI-EAS443:3:40:1241:358#0/1  
a\_¥U^aZJ\_[RW^]^^^\_ZY`ZXZZ¥ZWZYXX]ZXWZZWR  
@HWI-EAS443:3:42:1422:585#0/1  
GGTGGCTCCAGTCTCGGGTCAGTGAGTGAGAACTCCATAC  
+HWI-EAS443:3:42:1422:585#0/1  
\_b`a\_aaaa^\_Wa\_[Z``L¥X]^\_^[F^S^ZYGUU]YR]S  
@HWI-EAS443:3:42:840:1990#0/1  
TGGTGCTAGCAGAGCTACAGGACATTGAAAATGAAGAGAA  
+HWI-EAS443:3:42:840:1990#0/1  
aaX¥`bbaaab\_`^^aaaa`YMa`aaa\_aaaa¥aaaaXaa  
@HWI-EAS443:3:42:869:883#0/1  
GCTCCCTTCAATTATGTATTAGTAGCCCTGCAGTGGGACA  
+HWI-EAS443:3:42:869:883#0/1  
¥abbbbbbb`\_`bbbbbabbabbabb`\_baabb^baa^aa  
@HWI-EAS443:3:43:1560:1051#0/1  
CGTCATACTGTTTAAGGTCTCCAACATCTTTGCAGTCATC  
+HWI-EAS443:3:43:1560:1051#0/1  
aa¥X^\_\_`¥a`aba`aaZZaSWX\_V`^0^^]`Y[\_]Y`X  
@HWI-EAS443:3:45:1650:1715#0/1  
AACAAACTTCCAAATGTGTGCATATTGCAGCAAACCTTGTA  
+HWI-EAS443:3:45:1650:1715#0/1  
`\_`¥aa]abPMU`^ba\_\_]\_W[T[aY\_\_^NL]\_]0]ZPTX  
@HWI-EAS443:3:45:532:1060#0/1  
CAGGGGGCGTGGTGTCTCCTCAAGAATGGTTCAATTTTG  
+HWI-EAS443:3:45:532:1060#0/1  
\_T^¥aababab\_]T^a¥`a]¥[aa``aaaUV^`¥^[\_``  
@HWI-EAS443:3:45:599:396#0/1  
CGGGGCATGGAAATGAGGCGCTGCCTTCTTCAGTCTCTTC

+HWI-EAS443:3:45:599:396#0/1  
ababa¥`a`^Xaba]]ba`abb`Waa`]\`\_\_a`Y¥`]\`]\`  
@HWI-EAS443:3:46:1023:1872#0/1  
TCGGCCTTGCTCAATGCATCCTGTGCAGCCATGGATGACT  
+HWI-EAS443:3:46:1023:1872#0/1  
aa^aaaa^]\`^]aSRYaa¥X¥W¥^X]\`]\`]\`¥U¥  
@HWI-EAS443:3:46:1168:23#0/1  
ATTTTCACCGAGTGCCCACTTCAATTGGCTTGTCTCTTT  
+HWI-EAS443:3:46:1168:23#0/1  
abab`ab\_\_bab`baaaa`aa^]\`\_M\_a[\`]VUUSUFWJ  
@HWI-EAS443:3:46:1792:1373#0/1  
NCGAAAGAGGCGAAGAGACAATTGAAGAAAAATTTGAGAT  
+HWI-EAS443:3:46:1792:1373#0/1  
DNXZXZZWWXXZZZZZZVZXZZZZXWYZZZXZZWZZZZ  
@HWI-EAS443:3:46:553:744#0/1  
ACCCGTTTCGTCGATGAAATGGAAATCCGAATACATGAAAC  
+HWI-EAS443:3:46:553:744#0/1  
¥^bab\_a\_a`a^HQYXZZ^S\_]\`\_YL¥Y\_YVS[0¥\_\_]\`H  
@HWI-EAS443:3:47:1132:1857#0/1  
AGGGGCTATATGAAGCAATCGAGGAGTGCCTGATTAATGA  
+HWI-EAS443:3:47:1132:1857#0/1  
abbaabaaaa¥aaa`\_aa^\_V`\_]\`aV\_]\`Z]\`\_\_WV\_\_U^  
@HWI-EAS443:3:47:830:1366#0/1  
GTTGTCTTATAGTAAAAGCCTAGTTTTGATTCTTGCCCT  
+HWI-EAS443:3:47:830:1366#0/1  
K\_`]\`Z[b`^`abbYV¥`\_Y^]\`YZ^`^bbb¥\_`]\`^bSYIYSW  
@HWI-EAS443:3:48:1716:1587#0/1  
ACTCCGTGTTACTCCAATTTCAATGAACCGTTCTCTTTG  
+HWI-EAS443:3:48:1716:1587#0/1  
]abSa`S`I\_`¥`a\_`]\`^a\_\_Z[\_a\_\_W]\`\_a^XPVS^[\_T  
@HWI-EAS443:3:49:1222:1452#0/1  
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+HWI-EAS443:3:49:1222:1452#0/1  
a[PIUHTY^WH¥X]YY^U¥UTYUV[aXVRSFOUYRR^UXX  
@HWI-EAS443:3:49:792:424#0/1  
GGGCTCCAGTCTCGGGTCAGTGAGTGAGAACTCCATACTT  
+HWI-EAS443:3:49:792:424#0/1  
``a`aa]a^X`\_\_a`aQ\_a[F[XYS`U[\_X]^¥\_`\_¥``  
@HWI-EAS443:3:4:1015:712#0/1  
TGGAGGAATAATTTTACAGCAGAAGTGTCCCACTGCAGGG  
+HWI-EAS443:3:4:1015:712#0/1  
abbabbbbaaaaaaaa\_a`^aaa`\_`\_a\_\_]\`¥`Y`a^]a`\_`  
@HWI-EAS443:3:4:1034:365#0/1  
AGGGGAGGGAATACCACTATATGATGCAATCAAATGCATG  
+HWI-EAS443:3:4:1034:365#0/1  
abbbbabbb`aaa`\_`a\_baaaaa\_a`aaaXa\_a`a\_a`\_`  
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TCCCGAGTCACGAGGGGGAGGGAATACCACTATATGATGC  
+HWI-EAS443:3:4:456:274#0/1  
a`aabab`baab`bababaa`\_`\_a`W^a¥`\_`\_a\_a`^\_¥

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+HWI-EAS443:3:4:571:698#0/1  
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@HWI-EAS443:3:4:923:938#0/1  
ACTCTTCCTTCAATTATCTCAAATCGGTGCTTCAATAGTG  
+HWI-EAS443:3:4:923:938#0/1  
ab`ababb`baaaa`b`]a]aaa\_`\_`[[aPYa\_a\_`^PX\_  
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+HWI-EAS443:3:50:1163:612#0/1  
`bab\_bbabababbabaaabbaaba`abaaba^baaa\_a  
@HWI-EAS443:3:50:751:1898#0/1  
AGGGCATGGAAATGAGGCGCTGCCTTCTTCAGTCTCTTCA  
+HWI-EAS443:3:50:751:1898#0/1  
`a]b`babbbaaaba`aaaaaa`\_`[bb`aa¥[\_`\_a`\_a  
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AGGCACCAGAAAAAGTAGACTTTGATGACTGCAAAGATGT  
+HWI-EAS443:3:51:1010:627#0/1  
abb\_ababbaaaaa\_a`baaaaaa`aa`a`aa`\_`a\_  
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+HWI-EAS443:3:52:1452:1115#0/1  
Sa``¥baaabaZXU¥¥aa`aab\_KXabaa^`bba``bJ  
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GGGTCCTGCACACTTTCCAATAGAGCCTTCTCCACTCC  
+HWI-EAS443:3:52:1462:1140#0/1  
\_\_¥U]Z\_\_T¥X¥S`[\_`¥^¥Z¥`[NVNXZ[ZVPXNRTQTZZ  
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CGGGGGGCTATATGAAGCAATCGAGGAGTGCCTGATTAAT  
+HWI-EAS443:3:52:1692:1481#0/1  
a\_]\_aab]aababaa`T^a`aaa\_`[Z`P^Uaa\_aa\_^a  
@HWI-EAS443:3:53:315:949#0/1  
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+HWI-EAS443:3:53:315:949#0/1  
abaababaaaaabaaa`a`a`¥`aa¥a¥aa¥aa^`\_\_`\_  
@HWI-EAS443:3:54:1014:1449#0/1  
CGAGGGGTTTTCGGCTGAATCGAGAAAATTGCTTCTCATT  
+HWI-EAS443:3:54:1014:1449#0/1  
a\_Qa\_baW`ba`aa]a`aaa`aaaa`aaa`¥\_a¥Pa¥[`[  
@HWI-EAS443:3:54:555:1380#0/1  
GCTTTGTCTTGGGATCTTCTTTCATTTTCAATGTCCTG  
+HWI-EAS443:3:54:555:1380#0/1  
abbbbbbaa`abb`a\_babbaa`abaabaabaabaaa`^a\_  
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+HWI-EAS443:3:55:1284:1212#0/1  
ab`a`\_`]`\_`^[\_]`Z^bbba]ZVY^a\_a``¥ba[ba  
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+HWI-EAS443:3:55:74:657#0/1  
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+HWI-EAS443:3:56:507:1201#0/1  
a`]^bZbbbaabbb`bbabaab`baa`ab^a`a\_\_`aa`a  
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AGGGGGGCTATATGAAGCAATCGAGGAGTGCCTGATTAAT  
+HWI-EAS443:3:57:107:467#0/1  
a`aaabaa\_]aZaa^Y\_`aa`a\_a\_ZaZa`\_`aZ\_\_\_¥\_  
@HWI-EAS443:3:57:238:1378#0/1  
ATGGGGGGCTATATGAAGCAATCGAGGAGTGCCTGATTAA  
+HWI-EAS443:3:57:238:1378#0/1  
`baba``[^aaab]P]PXa]aaa`¥a[[a¥a`]``\_`¥^  
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+HWI-EAS443:3:57:513:633#0/1  
aa[`aa\_U\_a`] ^`\_aaa\_U\_a`\_`\_`\_\_^`\_`\_\_\_\_]\_]\_  
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CTTCAATTGGCTTGTCTTCTTCATGTTCTTTGTCCTTGGA  
+HWI-EAS443:3:58:1159:1017#0/1  
aa`aaaa¥b`]`aYV[\_¥00WSN\_]Z^XZ`\_]ZV¥[``¥0  
@HWI-EAS443:3:58:1334:871#0/1  
CGGGCATGGAAATGAGGCGCTGCCTTCTTCAGTCTCTTCA  
+HWI-EAS443:3:58:1334:871#0/1  
a\_`^^[aaYDXY`\_^a¥P``aaa^]b¥a\_]`WW]\_a][L  
@HWI-EAS443:3:58:336:34#0/1  
GACAACCTTGAGGGTTTTCGGCTGAATCGAGAAAATTGCT  
+HWI-EAS443:3:58:336:34#0/1  
I\_]¥]`bbbaba^\_a`¥[¥^[]]`¥Y¥Z]W^`\_]X\_Y\_Z]  
@HWI-EAS443:3:58:501:660#0/1  
CGGGGCATGGAAATGAGGCGCTGCCTTCTTCAGTCTCTTC  
+HWI-EAS443:3:58:501:660#0/1  
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@HWI-EAS443:3:59:1570:876#0/1  
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+HWI-EAS443:3:59:1570:876#0/1  
aa\_X]]aaa`\_aa\_aaa\_Xa]``]a]\_aa`]X]]]YX]XL  
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+HWI-EAS443:3:59:262:747#0/1  
abaaabb[bbabbaabaabaaaaababb\_baa`bZ`aa^  
@HWI-EAS443:3:59:386:693#0/1  
TGGGGTTTTCGGCTGAATCGAGAAAATTGCTTCTCATTGT  
+HWI-EAS443:3:59:386:693#0/1  
aaa\_a]a\_\_\_\_\_a`aa`]\_a]\_^]\_J\_^`\_^`\_^YW]XY  
@HWI-EAS443:3:59:982:1307#0/1  
CCACAACCTTGAGGGTTTTCGGCTGAATCGAGAAAATTGA  
+HWI-EAS443:3:59:982:1307#0/1  
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Z¥]aaa\_Z`HZ` `baba` ]baba` ¥aa` P¥aZaabaa\_aB  
@HWI-EAS443:3:5:1349:1893#0/1  
GGGGGGGCTATATGAAGCAATCGAGGAGTGCCTGATTAAT  
+HWI-EAS443:3:5:1349:1893#0/1  
abbbb[X[babbabaa\_Y]b]¥baa` `a` a^^aa\_aaa^\_  
@HWI-EAS443:3:5:1477:1622#0/1  
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+HWI-EAS443:3:5:1477:1622#0/1  
HV]Z¥^bbaTbbbbaa\_b\_dWH]R] `baQK` ZHI]^aBBB  
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+HWI-EAS443:3:5:1748:889#0/1  
aaab` `` [aZabbbaababbaab` b]ab¥b\_Xbb` abaaa  
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+HWI-EAS443:3:60:1170:664#0/1  
aab` abaa` \_^ [aa` aa` \_` ^\_a` \_` a` ]Y` \_` ]T¥` ``  
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AGACCCGAATGCACTATTGAAGCACCGATTTGAGATAATT  
+HWI-EAS443:3:60:1335:1739#0/1  
[]` QX\_UUa[¥HZ¥b` `\_OPY\_YI[Xb[aa¥¥V]\_` ¥^a[  
@HWI-EAS443:3:60:412:150#0/1  
AACCGGTTCAATTGAAATTGGAGTAACACGGAGGGAAGTCA  
+HWI-EAS443:3:60:412:150#0/1  
aa` abb[]YY\_aaaa` a\_\_a\_a` \_` ¥` `a` ^a^\_YX\_WWM  
@HWI-EAS443:3:60:972:210#0/1  
AAAATGGCCAGTAGGAGTCTATGGGATTCCTTTTCGTTCAGT  
+HWI-EAS443:3:60:972:210#0/1  
`Z\_ba` \_[[]aVV\_\_V\_R]^]\_]ZNZ¥V]T\_YOVQOQXT  
@HWI-EAS443:3:61:1190:252#0/1  
GAGAAAGGCATAAATCCCAATTACCTCATGGCTTGGGAAGA  
+HWI-EAS443:3:61:1190:252#0/1  
a]^PZ` \_^[^¥Z]^ [XU¥a^\_SLY\_] ^ZZ[ZVB BBBBBBBB  
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+HWI-EAS443:3:61:295:909#0/1  
ZabbaaWbba` ¥U\_aSX\_^aTV^PV¥^aa[NSOU` YV^[\_  
@HWI-EAS443:3:62:703:1226#0/1  
AGGGGGGCTATATGAAGCAATCGAGGAGTGCCTGATTAAT  
+HWI-EAS443:3:62:703:1226#0/1  
a` Z` ]Z¥¥[\_ba[aYVaWS\_a^Y]^XPZV]¥T^a\_\_^` a[  
@HWI-EAS443:3:63:1793:1144#0/1  
NGGGCATGGAATGAGGCGCTGCCTTCTTCAGTCTCTTCA  
+HWI-EAS443:3:63:1793:1144#0/1  
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+HWI-EAS443:3:64:1411:999#0/1  
^Zab`b^¥[aTVSa`aa¥a\_aabZPR[WJ]W\_S[aa\_\_ab  
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CGGGATTTATGCCTTTCTCATGTGGTTTGGACTATGTTAGG  
+HWI-EAS443:3:64:580:1218#0/1  
a`]^)^`aa¥¥\_`aa`aa\_a^^`W]\_`^`\_aa[]V^YU¥  
@HWI-EAS443:3:65:1011:39#0/1  
ACGGTCTCTTCCTTCAATTATCTCAAATCGGTGCTTCAAT  
+HWI-EAS443:3:65:1011:39#0/1  
a``]0]Z^`^YZ^ZZWZ`]YYZVQZ`X`\_]Q]VN\_ZNUU  
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+HWI-EAS443:3:65:236:352#0/1  
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CACCCCTGTTGTGTTACATATACTGTTCACTGTTCCAG  
+HWI-EAS443:3:66:464:308#0/1  
``abbaaa]ab`a¥`aaaa```]`aa[[aaaa`a``V\_\_^Z  
@HWI-EAS443:3:67:600:1686#0/1  
AGACACTTGGCCTATCGCAGTCCTCAAGAGCATGTCTCCT  
+HWI-EAS443:3:67:600:1686#0/1  
\_NY[[^IWPM[^`^aX\_\_^YROW[XZSZNZ\_ZW]R¥YZU^Z  
@HWI-EAS443:3:67:689:1554#0/1  
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+HWI-EAS443:3:67:689:1554#0/1  
]\_S^aa[\_b`ba`ba`Pa`¥¥aV\_W[Z]\_RWR\_[YX\_N  
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+HWI-EAS443:3:68:1231:1487#0/1  
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+HWI-EAS443:3:68:1480:810#0/1  
aabbbbababb]bbb\_baba\_bab\_baaabaaU[a^ab`  
@HWI-EAS443:3:68:1544:194#0/1  
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+HWI-EAS443:3:68:1544:194#0/1  
`\_`0^T^X`baaZVaa^V^¥bbZ\_]¥]YSS]`^^`X\_F  
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TCCTGTGCAGCCATGGATGACTTTTCACTGATCCCAATGG  
+HWI-EAS443:3:68:169:1210#0/1  
abbb[\_`bbb]bbaaaaaaaaabaaaa`a`aa]U\_^^a  
@HWI-EAS443:3:68:246:279#0/1  
CGCAGGGCAAGAATCAAACTAGGCTTTTCACTATAAGAC  
+HWI-EAS443:3:68:246:279#0/1  
a`abbbbaaababbababbabbaa`aa`a¥a`a`aa]aS  
@HWI-EAS443:3:68:92:443#0/1  
TCAGGTGCTAGCAGAGCTACAGGACATTGAAAATGAAGAG  
+HWI-EAS443:3:68:92:443#0/1  
a`a`a\_\_a`aaa\_`a`^aa^a`\_]\_^\_XZ^^]\_^\_]`]

@HWI-EAS443:3:69:512:575#0/1  
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+HWI-EAS443:3:69:512:575#0/1  
a]G]R[[Y` [ZU^][[X[N\_]`YaZYLTP[\_\_\_R\_\_WY¥\_  
@HWI-EAS443:3:70:1441:1518#0/1  
AGGGGCTATATGAAGCAATCGAGGAGTGCCTGATTAATGA  
+HWI-EAS443:3:70:1441:1518#0/1  
aa\_`\_aab`^`aaa`aba\_a\_`^\_0\_0^`^\_`Z]X\_\_  
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CGGGGTTTTCGGCTGAATCGAGAAAATTGCTTCTCATTGT  
+HWI-EAS443:3:70:1690:230#0/1  
ab\_aaQa^a¥XRM`a`XV[a]\_\_`a]]¥Y\_bb``T^``^  
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GGCGTCTCCACAACCTTGAGGGGTTTTCGGCTGAATCGAGA  
+HWI-EAS443:3:70:527:384#0/1  
abaa\_a`aa`a\_\_¥a`a\_a`\_a^`a\_T`ZZ^Y`\_U¥\_W[X  
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+HWI-EAS443:3:70:718:155#0/1  
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+HWI-EAS443:3:71:1356:286#0/1  
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aaaaaaZ¥abaa`a`a`\_`aab\_aa\_aa\_aaaVa\_\_¥^a\_^  
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+HWI-EAS443:3:72:1558:2021#0/1  
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+HWI-EAS443:3:72:515:908#0/1  
`R`a`^NO^ZVWTJX``PRYZ[Z[]^YTRNWZP¥UQ[\_VR  
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TGGGGCGTGGTGTCTCCTCAAGAATGGTTCAATTTTGGC  
+HWI-EAS443:3:72:692:366#0/1  
a\_QWa]\_RTa]^SaY¥aa`a¥Y\_\_R[a¥XX[V]``a¥VVZ  
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TGTCTCTCAGCAGATTGAGAGCATGATTGAGGCCGAGTC  
+HWI-EAS443:3:72:813:680#0/1  
`\_Z]a`bb^` `[``T`¥ZXZ[`]a]^a[]YOZ[``\_\_\_S¥  
@HWI-EAS443:3:73:1031:798#0/1  
GGGGGGGCTATATGAAGCAATCGAGGAGTGCCTGATTAAT  
+HWI-EAS443:3:73:1031:798#0/1  
abaa`a\_aabb`aa]\_a\_aa`\_a\_aa`a^`^]`aaa``\_\_  
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+HWI-EAS443:3:73:1079:202#0/1  
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+HWI-EAS443:3:73:344:684#0/1  
a`^`^abaaaa^][Z^\_Y]a]¥¥^^^a\_\_¥]P[PY^^¥¥  
@HWI-EAS443:3:74:379:545#0/1  
GCCTTGGTCATGTCTTTCTCTTTGACAGAAGACTCGGCCT  
+HWI-EAS443:3:74:379:545#0/1  
a`a`ba`aa[aaa^YZ\_aaaX`[a`\_`\_]\_\_\_\_`a]Y[  
@HWI-EAS443:3:74:579:1033#0/1  
GCCTCCTCATGCTTGCATATGTTCAATCGGGGCAACATC  
+HWI-EAS443:3:74:579:1033#0/1  
aZb¥bbb`Z^\_aabaaa\_bbaaVYa^^`\_`a\_aab]^a  
@HWI-EAS443:3:74:792:415#0/1  
CTCTTTCATGTTCTTTGTCCTTGGGATCTTCTTTCATT  
+HWI-EAS443:3:74:792:415#0/1  
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+HWI-EAS443:3:75:1176:1122#0/1  
a`Z\_^aab`P\_a¥a\_^[QT`[K`Y]`aWQOHXVU\_^TLT  
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+HWI-EAS443:3:75:754:1906#0/1  
a[¥baaa^`¥aa^Z¥aa`\_Z`\_a^T¥aa\_YU\_aYS^`[\_  
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CGCCCTGCTCTTTCGTCAGGGTGTAGTCCGCTTTGGTG  
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\_aa^^aa`aaaaa\_aa`a`\_`PaX`X[`a`^a^`^T`  
@HWI-EAS443:3:76:1793:1451#0/1  
NGTCGATGAAATGGAAATCCGAATACATGAAACAACTTC  
+HWI-EAS443:3:76:1793:1451#0/1  
DMXWSUWPUXZXVYWYUXWXZZZZZZUXYZXXZXZZT  
@HWI-EAS443:3:77:1287:73#0/1  
TTGCGTCTCCACAAC TTGAGGGGTTTTCGGCTGAATCGAG  
+HWI-EAS443:3:77:1287:73#0/1  
]\_aSaa[^Z0^Y^Y]ab]bb`\_T^X[Xa`S\_^¥¥FQ]N\_  
@HWI-EAS443:3:77:1314:1067#0/1  
CGGGGGCTATATGAAGCAATCGAGGAGTGCCTGATTAAT  
+HWI-EAS443:3:77:1314:1067#0/1  
^\_I\_a^`\_b^b[^\_]abaaabab`[¥YaQ^a\_aaa¥S\_a`  
@HWI-EAS443:3:77:272:750#0/1  
CGGGGCATGGAAATGAGGCGCTGCCTTCTTCTCAGTCTCTTC  
+HWI-EAS443:3:77:272:750#0/1  
abb\_P^\_¥b][T^X¥aaaaXX`]YTX`X[VY]]XT]^\_Y  
@HWI-EAS443:3:77:859:1270#0/1  
AGAAGTTCGGTGGGAGACTTTGGTCCGCAAGCTTGCGCAG  
+HWI-EAS443:3:77:859:1270#0/1  
a`W^XZ`Z¥b¥`a`U`\_ba`\_^aXabbb\_N\_^]a`\_aa



@HWI-EAS443:3:77:907:249#0/1  
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+HWI-EAS443:3:77:907:249#0/1  
abbabbbbabababbbabbabbabbabb`babbba  
@HWI-EAS443:3:79:147:834#0/1  
AGCCCACTTCAATTGGCTTGTCTTTCATGTTCTTTGTC  
+HWI-EAS443:3:79:147:834#0/1  
a\_`a`\_`aZ\_]^[^\_RU]YRWX¥]]X]RXMMW`]]YX  
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TGCCACCAAAGCGGACTACACCCTTGACGAAGAGAGCAGG  
+HWI-EAS443:3:79:193:1530#0/1  
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+HWI-EAS443:3:79:360:54#0/1  
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@HWI-EAS443:3:7:1057:879#0/1  
ACCCGATTGAACATATCGCAAGCATGAGGAGGAACTATTT  
+HWI-EAS443:3:7:1057:879#0/1  
^Yb`[]`¥Ha]b]QUR¥SZ\_\_OVTQTZa\_`^[WG^Z^SP  
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+HWI-EAS443:3:7:120:1451#0/1  
XZOIaZaaa\_Xaaa`W]^aaaa\_a`¥`\_\_XZ]]^`]a  
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+HWI-EAS443:3:7:1517:631#0/1  
]a\_^R\_[a[^abbb^[a]P\_^]`Z^a^UM^``aaaU`ba  
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GGCAGGGCAAGAATCAAACTAGGCTTTTCACTATAAGAC  
+HWI-EAS443:3:80:1377:609#0/1  
a`aaa`[\_```]Z\_aaa]\_]\_[[\_`a¥aT\_\_`^`[Z  
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AGGGGCTATATGAAGCAATCGAGGAGTGCCTGATTAATGA  
+HWI-EAS443:3:80:1710:863#0/1  
abaa``ababaW``Yaaa\_ZZRVY¥aS\_\_R`VY¥a`a\_S`  
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CGGGGCTATATGAAGCAATCGAGGAGTGCCTGATTAATGA  
+HWI-EAS443:3:80:595:18#0/1  
\_`a\_\_baa\_aa``aba`]a]a`¥`[a¥]]a\_¥Z^¥\_\_\_  
@HWI-EAS443:3:81:1039:526#0/1  
GGAGGGGTTTTCGGCTGAATCGAGAAAATTGCTTCTCATT  
+HWI-EAS443:3:81:1039:526#0/1  
`a\_aaa`Y`\_^`aZaaa\_]a[^^^`\_`a\_````\_]`^  
@HWI-EAS443:3:82:1731:1148#0/1  
GCCGAATGCACTATTGAAGCACCGATTTGAGATAATTGAA  
+HWI-EAS443:3:82:1731:1148#0/1  
Q\_Za\_abb[abbbabba`a`a`X`bbbbbbbabbbXb\_  
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+HWI-EAS443:3:82:1747:1078#0/1  
[aa¥\_]a\_^SbabbVb¥\_abZR]ab^^^\_`b`a`XXa\_  
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+HWI-EAS443:3:82:691:217#0/1  
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+HWI-EAS443:3:83:1183:1982#0/1  
aba[\_bbbaabba`aabbaLaaaaGaXaa\_aaa\_a]a\_a]  
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+HWI-EAS443:3:83:309:1592#0/1  
]]\_WW¥]K\_\_\_\_N¥]aa`]Z¥]YF¥Y\_XZ¥]R\_XX[R[U[V  
@HWI-EAS443:3:83:997:63#0/1  
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+HWI-EAS443:3:83:997:63#0/1  
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+HWI-EAS443:3:85:1010:490#0/1  
a]bb`bUbbb`Ha]U\_\_`abbaaa[\_baS\_[]aa^aaaU\_  
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+HWI-EAS443:3:85:449:735#0/1  
aaba\_TWab\_a]a\_[^`\_\_\_\_\_aaa`ZQ\_W\_`^^a¥`aa¥¥  
@HWI-EAS443:3:86:1221:1259#0/1  
AGGCACCAGAAAAAGTAGACTTTGATGACTGCAAAGATGT  
+HWI-EAS443:3:86:1221:1259#0/1  
\_`aaa^a^` `b^¥bYbba^aaababaa^`b^aaaa` `a\_  
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CGGGGGGCTATATGAAGCAATCGAGGAGTGCCTGATTAAT  
+HWI-EAS443:3:87:1003:1015#0/1  
`\_[\_¥\_\_\_\_bbbb`b`bbba` `aa^bab`Ua]P\_b`Y\_\_`b  
@HWI-EAS443:3:87:1483:178#0/1  
CGGGGTTTTCGGCTGAATCGAGAAAATTGCTTCTCATTGT  
+HWI-EAS443:3:87:1483:178#0/1  
[\_bbaa]¥` [a^\_UUW¥W]HYaYaa`RHVIOKS]J[a\_QP  
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+HWI-EAS443:3:87:545:444#0/1  
a` `W\_RYXPZS^aaa\_\_\_aWL\_[TH^]\_¥a`a[SaPP\_\_Z  
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GGAGGGGTTTTCGGCTGAATCGAGAAAATTGCTTCTCATT  
+HWI-EAS443:3:87:816:443#0/1  
J\_^ab`a¥¥`\_baUKbbb`Uaaabb`¥`aTGS`\_baaW¥a  
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CGCCCCATTTTCATCTTGATCTTGGAGGTTCCATTGGTTCT  
+HWI-EAS443:3:87:916:689#0/1  
aa`baaabbaa\_b\_babaaabbab\_\_`Xa^ZVR]^aRZL]

@HWI-EAS443:3:88:20:299#0/1  
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+HWI-EAS443:3:88:20:299#0/1  
aaaba¥`aa\_`a``¥^[\_a`a[ZG]\_``^aa``\_S^\_\_\_\_  
@HWI-EAS443:3:88:882:1302#0/1  
CGGGGCATGGAAATGAGGCGCTGCCTTCTTCAGTCTCTTC  
+HWI-EAS443:3:88:882:1302#0/1  
ab`baaabbbbaaa`aaaaaabaa``a\_aa¥aa^`aa`]a  
@HWI-EAS443:3:89:1392:1033#0/1  
ATACTGTTCCACTGTCCAGGCCATGATTCCGGTCTCTTG  
+HWI-EAS443:3:89:1392:1033#0/1  
^V\_b\_^\_]Ta^aVS\_bababa\_^Q\_\_V\_a^N¥VFJYM  
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+HWI-EAS443:3:89:1444:453#0/1  
aab¥\_\_\_\_\_ab\_abba`b¥ba\_aaab^aaba\_a]a]RW][  
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+HWI-EAS443:3:8:290:382#0/1  
Z]]^a\_JW¥0[Ya]^aZ\_a\_a¥V¥PSZa\_YPXUY][VBB  
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+HWI-EAS443:3:8:763:1211#0/1  
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+HWI-EAS443:3:8:913:1605#0/1  
ZZba`bbaab¥¥a\_bb\_bUYab`a]a^a\_b^I\_`Xaba\_\_  
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+HWI-EAS443:3:90:1277:1616#0/1  
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+HWI-EAS443:3:90:392:588#0/1  
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+HWI-EAS443:3:90:753:1357#0/1  
YFRZ\_a]VUa`\_S\_[]^ZXaX`\_[a^¥\_G`P[\_XPK¥U^Z  
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+HWI-EAS443:3:91:1197:825#0/1  
abbabbbbbbbaaababbbabbbbaaaa`abbab\_aaab`a  
@HWI-EAS443:3:91:1519:1262#0/1  
CGGGGTGAATCAATAATTGTAGAATCTGGTGACCCGAATN  
+HWI-EAS443:3:91:1519:1262#0/1  
aaa^aHa¥K`\_a^b`aaa]W[a¥Ta^^a\_]a\_[ZS\_`XZD  
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+HWI-EAS443:3:91:831:1411#0/1  
`Z¥aa`a`¥`\_a\_a]aaa`U\_[\_\_XNSZZZ\_¥¥XV\_0JMV  
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+HWI-EAS443:3:92:210:1161#0/1  
^`\_b]¥]aaaa`a\_a¥]a`aZa`^aaXa]X``¥P¥¥`P^¥  
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+HWI-EAS443:3:92:515:1510#0/1  
GP[^VabbUZaX\_W`b` `a¥a`HQYbKbbYbbbaab¥G\_b  
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+HWI-EAS443:3:92:569:361#0/1  
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+HWI-EAS443:3:92:872:154#0/1  
\_`a^^a`\_abbbbabbabbabb^aabb` `ababa\_aa  
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GGCGTCTCCACAACCTTGAGGGGTTTTCGGCTGAATCGAGA  
+HWI-EAS443:3:93:1196:894#0/1  
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+HWI-EAS443:3:93:1345:415#0/1  
`[ `V[V[SZZa\_T]`aaY¥]\_` `^U^]]^Y^[[¥TZXWWU  
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+HWI-EAS443:3:93:925:805#0/1  
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+HWI-EAS443:3:94:1606:1393#0/1  
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+HWI-EAS443:3:94:501:399#0/1  
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+HWI-EAS443:3:94:803:504#0/1  
aaabaa`a¥`\_`XWNZ`a]aaa]Za`a[^`\_`aa`\_N\_\_\_\_]  
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GACGAAAGGAATCCCATAGACTCCTACTGGCCATTTCTTT  
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+HWI-EAS443:3:95:674:397#0/1  
]`abbb^bbabbba`]a`aabbb`abbbbbaVb[aabaa  
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ACGGCCTCAATCATGCTCTCAATCTGCTGAAGAGACTGAA  
+HWI-EAS443:3:96:1300:829#0/1  
¥]b\_\_WYQ[\_WXYZ\_^aa`aaa]T`abaa]\_`]a]\_X\_P`  
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CGGCCATGTTTCCGATTTGTTTTCAAAGAATTCCTTGGTC  
+HWI-EAS443:3:96:315:418#0/1  
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+HWI-EAS443:3:97:1008:1771#0/1  
abaa`[T\_WaQ\_aa`\_b[a^P`]a^a]^^`S^a¥]`U^aY  
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+HWI-EAS443:3:97:1500:723#0/1  
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+HWI-EAS443:3:97:926:984#0/1  
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aba]`abaaaaabb\_aaaaa\_aa^¥`\_a`\_a¥aa`^[\_  
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CGGCATGTGAATTGACTGATTCAAGCTGGATAGAACTTGA  
+HWI-EAS443:3:9:1206:872#0/1  
aba^`bWaaV\_\_a`\_`aX\_a\_\_Q\_]a\_\_^]TZ^]\_\_a]  
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+HWI-EAS443:3:9:334:769#0/1  
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+HWI-EAS443:3:100:1034:542#0/1  
[bb\_``\_Xabbbbba\_aabbbab\_\_baba]]V\_[a]\_ba^  
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+HWI-EAS443:3:100:1097:798#0/1  
\_`^^\_¥¥K\_Xbaaabababaaa\_ab\_aaYa`^\_a\_a`XXa  
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+HWI-EAS443:3:100:109:365#0/1  
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+HWI-EAS443:3:100:1654:856#0/1  
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@HWI-EAS443:3:100:284:685#0/1  
GGGATCTTCTTTCATTTTCAATGTCCTGTAGCTCTGCTA  
+HWI-EAS443:3:100:284:685#0/1  
aa¥]Y]a\_`a`\_\_`^^^aa^aVa`^Y`^a]a\_U\_¥[\_V\_\_  
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AGGCAATCTGAGGGGGCGTGGTGTCTCCTCAAGAATGGT  
+HWI-EAS443:3:100:284:927#0/1  
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+HWI-EAS443:3:100:306:1541#0/1  
]b`bbbaa^aba¥P`abaab^^`abaZaa^¥\_aa\_^YYUB  
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+HWI-EAS443:3:100:314:1130#0/1  
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+HWI-EAS443:3:100:333:1902#0/1  
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+HWI-EAS443:3:100:365:625#0/1  
\_a`a\_ba¥abbbW^`aa\_`\_a`b`\_a`Sa[\_Z^a¥aRBB  
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+HWI-EAS443:3:100:404:1287#0/1  
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+HWI-EAS443:3:100:537:1206#0/1  
abaa`aa`]`^\_aaab^`b]a\_`]\_a^\_a]X``\_\_aZ\_B  
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CATTAATCAGGCACTCCTCGATTGCTTCATATAGCCCCC  
+HWI-EAS443:3:100:562:1600#0/1  
aa^\_\_ba\_\_^\_Xabbab`bbb[U`abba\_ab^b^a`a`^B

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aa`ab\_a\_a¥aa`a`\_\_a^\_^\_Y``]``\_`S[]\_¥]^P\_Y  
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aa`Zaa^`aba^aYaa]\_\_^\_\_^a]\_^\_¥[^`^`\_`¥¥P`^  
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aaaa\_\_aa\_``a^L`^b`aG`¥^`\_QT^G]aa`\_^\_Y\_aB  
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+HWI-EAS443:3:100:849:428#0/1  
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CATCTTTGCAGTCATCAAAGTCTACTTTTTTCTGGTGCCAT  
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abaa\_¥V^babaabbUb\_\_a`P`\_[a\_ba`[R`aaaK[ab  
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+HWI-EAS443:3:100:975:718#0/1  
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G^bbbbb\_a¥U¥``aaabZaaba¥¥b`bb`]FZaZZ\_\_a  
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+HWI-EAS443:3:10:1224:1011#0/1  
a]^X`¥``aV^\_V^YY`X`\_]V¥U]]X]]^XW]UXV^XY  
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OT\_\_[W\_T\_¥^[bb\_Q^\_\_WZ^\_^]]Zbb^`^\_SW[ZLS  
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ab`\_`ba^`abb]aa\_aXba`aaa\_Yaa]\_\_¥`a^``\_a`  
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+HWI-EAS443:3:10:1429:609#0/1  
aaaaaa[\_aa`\_]`¥SSW^V^\_\_X^YU]Y^\_]VX¥RV]  
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+HWI-EAS443:3:10:1433:1062#0/1  
\_]`a`bR`abba`a^`¥a\_[]\_[]`aa^``\_\_^]\_a`UR



@HWI-EAS443:3:10:1440:1339#0/1  
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a`aa`a`^`\_\_^`\_XY\_X]\_`]]\_`W]]\_`]]X^]YY  
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+HWI-EAS443:3:10:1577:1182#0/1  
a\_aa]aa¥]aZ\_^]^\_Z`¥\_¥^`W¥¥\_`¥\_¥WW¥^SWWW  
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aba`abb\_baaaa`aa\_a\_¥`\_]\_a]a]\_`]\_]`^a¥  
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a\_aa`^¥R\_a¥ZNTY]aa\_`Z^a`W`¥`Y\_\_OY]UV`Y  
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V^Z¥Y`¥`V^[X`b\_]\_VN^XY^[]\_]X¥[UZ[`S  
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+HWI-EAS443:3:10:454:44#0/1  
abaa\_]\_aaa`aa\_a`^`\_\_^Z^`a[\_a`\_]R\_¥]V¥]^  
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+HWI-EAS443:3:10:486:739#0/1  
ab¥[ `a`^Y]GPLX^ZSQab^V\_[aaa[\_`RZ`\_\_[\_`¥Q  
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^`a`aabaa]aaaaaaaaaaaaa\_aa\_aa^`aa\_\_\_aa`  
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a\_a]a\_]X¥DX[a\_\_a¥a\_[[\_`\_]¥\_¥¥^WWS¥ZRUXUU  
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+HWI-EAS443:3:10:721:1426#0/1  
a`aaa\_a\_a]^\_\_\_G^`a^V]\_a\_[\_\_XY^^`^ZR]¥VX¥  
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+HWI-EAS443:3:10:784:1570#0/1  
`a`^^`\_`¥^^^ab]\_b`G`b^a`[b`^^`\_\_]a]\_\_\_R`  
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a`¥[\_Zaa\_ab`\_\_[RWY\_`¥]^S¥aRWX]V]OYXXLNR  
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+HWI-EAS443:3:10:966:1580#0/1  
aaaa`aa\_aaaa```]aaa\_a`aa```^`a```\_\_\_\_\_¥\_`  
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+HWI-EAS443:3:11:1034:1402#0/1  
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a`Zabba\_a`aaaab\_`^^aaab\_aaa^`aa\_`^`]¥aa  
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+HWI-EAS443:3:11:1249:1132#0/1  
Va`V[\_ZZ\_`aXZ¥^``[^a`[L[X`^UTT[a`a\_b[¥T]  
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+HWI-EAS443:3:11:1343:436#0/1  
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aa`[ `a`aaaaaa\_\_a\_aa\_\_VWT]^`^]Z\_]\_^]W  
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TTTGTTCCTCAAAGAATTCCTTGGTCATGTCTTCTCTTTG  
+HWI-EAS443:3:11:1590:399#0/1  
¥`aaYb\_babb¥`^Z^aa¥a``a\_^Uab]`aaaW`]^\_a`  
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AAAGAATTCCTTGGTCATGTCTTCTCTTTGACAGAAGAC  
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+HWI-EAS443:3:11:162:909#0/1  
^aaaaaa]`a`aa]abaY`aaaa`aW``a``\_`\_`^`\_`\_`  
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[[a\_V^aba\_a\_¥a\_\_\_\_`aba]^`^YXR]^V`\_RZ]\_R\_  
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[`S¥T¥a^\_a`\_bbaaaaY^a`ba\_[U^XT^¥NU^JYWL¥  
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T\_`[¥a\_\_U]\_XbXabb¥\_aaabbabab[UHY`bUa^`UM  
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GGGGCATGGAAATGAGGCGCTGCCTTCTTCAGTCTCTTCA  
+HWI-EAS443:3:11:709:468#0/1  
a\_¥J`S`a`^`ZWY]OV¥\_Q^Z[SZZ¥\_\_¥¥¥VS¥SUZUU  
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+HWI-EAS443:3:11:712:1969#0/1  
`aa[`aZa]\_a\_\_^aaW`\_¥aa]^\_^^^\_^\_\_]^\_`a\_\_  
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+HWI-EAS443:3:11:735:1328#0/1  
ababbbabbbbaa\_ab¥bb`baababa]U]\_aa\_\_^Z\_  
@HWI-EAS443:3:11:836:262#0/1  
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+HWI-EAS443:3:11:836:262#0/1  
```\_a\_FW^^[^R]aa¥]aa]P`^a`a^^]\_\_\_X]a\_^U  
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+HWI-EAS443:3:11:853:952#0/1
aabaa_abaaab__`_aa_]`_a^__`^_a_^]^^_¥_]`
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+HWI-EAS443:3:11:862:1592#0/1
Wabb_XZb]a`a^_U¥W`a[_b`X`¥aaT^a_]`[`aaa_
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+HWI-EAS443:3:11:896:1567#0/1
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+HWI-EAS443:3:11:950:1609#0/1  
aaaaaa\_a\_a`\_`\_\_^\_\_WOX\_^`Z^^^\_a\_] [\_\_\_]Z[Z  
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+HWI-EAS443:3:11:955:259#0/1  
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+HWI-EAS443:3:12:1068:1861#0/1  
aaa¥^aaa`\_\_Y[``¥]\_a\_\_a^`a`W^S)``aba\_`]a\_  
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aaa`a`aaa¥aa]aa\_aaa¥a`^Z\_aZ`\_¥^a\_aa\_\_^`\_  
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+HWI-EAS443:3:12:1180:215#0/1  
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+HWI-EAS443:3:12:1382:94#0/1  
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+HWI-EAS443:3:12:1426:1082#0/1  
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+HWI-EAS443:3:12:1435:73#0/1  
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+HWI-EAS443:3:12:1497:1055#0/1  
a\_]\_^\_bab^RY¥a`\_Y^bbY`Z^`]]]W]aa][X^]R]XB

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+HWI-EAS443:3:12:154:884#0/1  
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+HWI-EAS443:3:12:1606:1107#0/1  
a`b\_aaa\_^`aa`aaabbbab`b\_b\_\_\_\_\_]aa\_b`b`\_`a  
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+HWI-EAS443:3:12:160:602#0/1  
\_a``aaaaaaaa\_aaa`a^```a`a^Z\_a```\_aZ`]`a``  
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+HWI-EAS443:3:12:1712:511#0/1  
¥^b\_b`a]ba`\_bb]Xa¥Z`U][^aI\_\_PIZ`ZGYLSS[0  
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+HWI-EAS443:3:12:1785:778#0/1  
aa][Ya`aQZ\_[^a^aa^W\_XY\_\_\_\_\_]W\_¥¥WZ)`a^]Z  
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+HWI-EAS443:3:12:296:707#0/1  
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a\_Za¥aaW[\_`a¥`[V[Z^]]]a\_[TSZ\_^¥^TW[ZQZ¥Y  
@HWI-EAS443:3:12:313:369#0/1  
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+HWI-EAS443:3:12:313:369#0/1  
a\_U¥aV``]a\_^U\_U]\_\_baa^Z^¥`aa^T``¥Y\_X\_a¥Z  
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+HWI-EAS443:3:12:377:667#0/1  
`]b`\_]L^\_aa\_N\_\_`PW\_aQZ`aJZ]Y^^YVYZ]]^\_`  
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+HWI-EAS443:3:12:394:917#0/1  
aa^ab`\_^aa^\_^]\_a\_V\_X^¥]Z`Z\_¥]]^^Y\_0[V`  
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+HWI-EAS443:3:12:461:1167#0/1  
^`¥X[a¥¥X\_`¥¥TRaYRaYUNHV\_^`]\_]\_S^`[^`R\_  
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+HWI-EAS443:3:12:484:1955#0/1  
aaZWVTUNL^VOSVU`ZT]]\_`\_]`\_\_\_WSX`J^]MZ[BB  
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+HWI-EAS443:3:12:501:691#0/1  
ab`\_`\_`\_¥VRa`Y`[\_^P¥[T\_ZG[GZU^T¥NQSSSUZTT  
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a\_U\_Ua][aaa`J`a`M`^W\_`\_`\_]`RTU`^Z\_[^\_Z^  
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+HWI-EAS443:3:12:555:711#0/1  
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+HWI-EAS443:3:12:634:354#0/1  
`^¥OY^`a\_aaa\_\_^`\_`\_`\_`\_¥\_\_\_\_W\_Q¥V`¥^^¥¥¥\_¥  
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+HWI-EAS443:3:12:682:1692#0/1  
a`a]a`b`a`\_b\_^`Y`\_`a`]\_^`]\_`\_`^WW\_Z]]  
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a\_P[aaa`YU¥XYQ][Z^aaa]a]Zaa`[WW¥`\_Y]^\_¥  
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+HWI-EAS443:3:12:775:1928#0/1  
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abaa`baaa\_ab]aa\_aa]`aaa\_\_aa\_\_`a`\_`\_^aXW\_\_



@HWI-EAS443:3:12:826:1104#0/1  
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a]¥a[\_`ab`ababaaaa`\_`aTa\_\_]`¥\_]\_\_^\_\_]\_  
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+HWI-EAS443:3:12:842:422#0/1  
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+HWI-EAS443:3:12:873:807#0/1  
aaa`a`aabababaaaababb`T``ab`a`ba`\_`a`\_  
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+HWI-EAS443:3:12:98:1933#0/1  
`aa\_bbbaa`\_]Z`aaaa^\_\_aa¥aa¥\_a`^`^`\_W\_] [Y  
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+HWI-EAS443:3:13:1061:1106#0/1  
aa\_bbbaabaa\_b]aWaaaa^a\_aaaa`a`aa`\_]a  
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+HWI-EAS443:3:13:1092:301#0/1  
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+HWI-EAS443:3:13:1180:1887#0/1  
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+HWI-EAS443:3:13:1201:173#0/1  
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GGCCTGGACAGTGGTGAACAGTATATGTAACACAACAGGG  
+HWI-EAS443:3:13:1258:181#0/1  
`aZUa¥SUbbb`X^I]`a``¥PX¥N\_aQT[¥\_`ZVW¥a\_\_  
@HWI-EAS443:3:13:126:286#0/1  
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+HWI-EAS443:3:13:126:286#0/1  
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+HWI-EAS443:3:13:1371:1814#0/1  
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aa`a\_`^¥Z`^^`aZ\_a`\_U`[aX\_¥`U\_RQYUZ^RW  
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+HWI-EAS443:3:13:1619:1464#0/1  
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+HWI-EAS443:3:13:1655:918#0/1  
^]a`N\_babaaa`\_]aaa^`a\_\_`a\_]¥\_]Z^[^\_\_VS  
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+HWI-EAS443:3:13:165:985#0/1  
a\_ba^aa`Ya¥a`aaa`aaa\_aaa`^^^\_a`aaX\_\_\_^`\_  
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+HWI-EAS443:3:13:166:405#0/1  
\_`ab]aabbababba`ab¥ab``aaaa`\_\_^aa]`a`]  
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+HWI-EAS443:3:13:1692:834#0/1  
`¥a`b`baba`^^`¥[^aaaaaaa^ba`a`aa\_`^`X`^`  
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+HWI-EAS443:3:13:1742:912#0/1  
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+HWI-EAS443:3:13:1755:105#0/1  
][b^¥R¥\_[`V`Z^[U\_a]aWFUYLa``W[YO^YZ¥BBBB  
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+HWI-EAS443:3:13:1784:1398#0/1  
`baXa`a^`aaaNa\_^a]aaa\_[aaa`a\_\_\_^`\_`X`[T  
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+HWI-EAS443:3:13:191:410#0/1  
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+HWI-EAS443:3:13:214:782#0/1  
a[ `bZVQa\_\_`S¥Xa\_^ [U¥a]V^[\_¥P¥^YQ^¥^RZ^` ]  
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+HWI-EAS443:3:13:351:1853#0/1  
a¥L^¥b^¥¥\_b]a¥ab\_]¥Za¥baabbb\_aa^Xb\_]aa^V  
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+HWI-EAS443:3:13:36:184#0/1  
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][X\$¥]ZbVTZP¥VK¥\_a\_RWaPY`¥^Z[]\_`S\_`^VMRUV  
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+HWI-EAS443:3:13:465:618#0/1  
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+HWI-EAS443:3:13:549:1496#0/1  
aab`aZL¥\_a]Q]\_\_`\_ [[^a¥^¥`\_`a^^` `^\_¥T]^YW  
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abaaa`\_\_aaaa`\_`\_`aaa\_^`¥\_\_Qa]U`\_`^^`\_]`  
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+HWI-EAS443:3:13:75:227#0/1
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a``baaa`aa^`a___a___a]_[[Z`^^`]]]^_]]X]
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¥ZaWaPVS¥aa^Y__WYYJY^^]TR¥Z[_^ [WV_`_IP__
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+HWI-EAS443:3:13:814:731#0/1
aaZ` `a_¥_aaabaa`bbaa^aaaa`a`baa_` `a_a_aa
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+HWI-EAS443:3:13:889:2021#0/1
abaaaaa^_bX_]aa_`aVa__a_]_^Z¥UQ_¥M[]____ [
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+HWI-EAS443:3:13:916:600#0/1
XabPXZa^T_U_QW^T`a_]a`baab^a`_ZWY¥^WU¥H]
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+HWI-EAS443:3:13:917:1848#0/1
abaaabb`]abaaaaaaaa`aaa_a`^_a` ` `Y_a^a_
@HWI-EAS443:3:13:93:539#0/1
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+HWI-EAS443:3:13:93:539#0/1
aa` `R`aa_¥] [T]a`^]aa____ ` `]WHYZPUX[^_VL¥_
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+HWI-EAS443:3:13:955:1222#0/1
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AAGCAATTTTCTCGATTCAGCCGAAAACCCCTCAAGTTGT
+HWI-EAS443:3:13:970:914#0/1
^`]`XWVX¥`Z¥Q¥Y` `¥` aabaWZ[YOZ¥¥ZX_PTY_^N
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+HWI-EAS443:3:14:1016:1086#0/1
aaabba__baaaaa`_aa`_^` `a_a`a` ` `]`¥a`^
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+HWI-EAS443:3:14:1065:555#0/1
`ba`ab]aSb^]aY`^aaaa`_aaaa`_^a[_¥`a`]^a
@HWI-EAS443:3:14:1094:375#0/1
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+HWI-EAS443:3:14:1094:375#0/1
¥abZUZaYaa` `XX^L]aWY[]JZX_^Z^____ ` _RWYUTa

@HWI-EAS443:3:14:1128:851#0/1
GGGGGCTATATGAAGCAATCGAGGAGTGCCTGATTAATGA
+HWI-EAS443:3:14:1128:851#0/1
a_```[\`aaaa__^_]``a_a]a`Z_V^V[\`a]^`__]^W
@HWI-EAS443:3:14:1160:61#0/1
AAGAATTCCTTGGTCATGTCTTTCTCTTTGACAGAAGACT
+HWI-EAS443:3:14:1160:61#0/1
abb_aabX]babaX_]abaab``]a^aaab___a_a`^W_
@HWI-EAS443:3:14:1200:1177#0/1
ACGAACGGGGTGAATCAATAATTGTAGAATCTGGTGACCC
+HWI-EAS443:3:14:1200:1177#0/1
^^_aZ``_a_OZSHT[QWaZVa]ZYU__a\$SZWRY^\$XN[
@HWI-EAS443:3:14:1223:963#0/1
GCCTTTCTCATGTGGTTTACTATGTTAGGCTCTTCCAG
+HWI-EAS443:3:14:1223:963#0/1
a`^^aTUXaaba[a^S`aa][aa^aV`[_^U\$VS`_V`YL
@HWI-EAS443:3:14:1255:670#0/1
GGCATGGAAATGAGGCGCTGCCTTCTTCAGTCTTTCAGC
+HWI-EAS443:3:14:1255:670#0/1
a_aa_a``a_aa`^___``___\$^V``X\$__\$V[VZWW
@HWI-EAS443:3:14:1271:605#0/1
GATCCCAAGGACAAAGAACATGAAGAGAACAAGCCAATTG
+HWI-EAS443:3:14:1271:605#0/1
a_a^a`_]_aY`^]_]_]aa`]_a`a^^]^`R^_]_U]
@HWI-EAS443:3:14:1276:1039#0/1
ATCAAAGTCTACTTTTTCTGGTGCCATATTTTCACCGAGT
+HWI-EAS443:3:14:1276:1039#0/1
a^aaaa`]a`aZ`aaaaa`a_Z`a^a`_a_a`U]V^X
@HWI-EAS443:3:14:1284:2032#0/1
GGGGCTATATGAAGCAATCGAGGAGTGCCTGATTAATGAT
+HWI-EAS443:3:14:1284:2032#0/1
a`_a_aaab`_aaa_aa^a_a`_aV_YU_Z]^`^_^]^a
@HWI-EAS443:3:14:1289:278#0/1
ACATGAGAAAGGCATAAATCCCAATTACCTCATGGCTTGG
+HWI-EAS443:3:14:1289:278#0/1
aaa``Z`aaa_^_aaaa_aa[V__`\$^^R`MX[^aY_^]B
@HWI-EAS443:3:14:1298:1021#0/1
GCACACATTTGGAAGTTTGTTCATGTATTCCGATTTCCA
+HWI-EAS443:3:14:1298:1021#0/1
a_baa\$`_a^__aSa]__a_aa`a[]a`][_aZ`P`\$\$_
@HWI-EAS443:3:14:1312:1225#0/1
GCAATGTAGGACCAAGAAGGACGAAAAACAAACCT
+HWI-EAS443:3:14:1312:1225#0/1
aaaaaaaa]aaa`__a`_a__a`]````__a^_^`]]_V_
@HWI-EAS443:3:14:1320:1485#0/1
GACGAAAGGAATCCCATAGACTCCTACTGGCCATTTCTTG
+HWI-EAS443:3:14:1320:1485#0/1
abbabbb_bbbaaaSaab_aaaaa_aaa\$a_Xa\$a_Xa_I
@HWI-EAS443:3:14:1391:874#0/1
CACTATATGATGCAATCAAATGCATGAAGACATTCTTTGG

+HWI-EAS443:3:14:1391:874#0/1
aaabaaaab]abaa`a`aaaa]a`aa`a^aa``a^`_¥
@HWI-EAS443:3:14:1413:119#0/1
GCCTATGTAGATGGATTTCGAGCCGAACGGCTGCATTGAGG
+HWI-EAS443:3:14:1413:119#0/1
aaaa`aa¥a__a`^^^`____S^S^¥^ZVRGRUWMPBB
@HWI-EAS443:3:14:142:1360#0/1
CAAATCAGGAAGAAATTTAGGCTTCTCTACCCCTGTTGTG
+HWI-EAS443:3:14:142:1360#0/1
aabaaaa`a`aa^aa`^`a^]`_^_a_aa]a__`Y__X_
@HWI-EAS443:3:14:1509:649#0/1
TCCACTCCCCTGGGTGACTCTCCGATTGGCCATGTTTCCG
+HWI-EAS443:3:14:1509:649#0/1
aaaZTY[_`_`[[[Y__]][_XY[U__Z]]X]]T¥ZWU¥
@HWI-EAS443:3:14:150:516#0/1
TGGCGTTCACTTCTTTTGACATTTGGGAAAGCTTGCCCTC
+HWI-EAS443:3:14:150:516#0/1
aab`b`T^[_`_a`a`a¥`a[ZYYGW`_`_`Z¥_V^^Y^`
@HWI-EAS443:3:14:1521:1663#0/1
ATGAAATGGGCATGGAAATGAGGCGCTGCCTTCTTCAGT
+HWI-EAS443:3:14:1521:1663#0/1
a[R]aV_¥a]aQ^aa_`a]aa`GXaab`HaX^¥[H`YS
@HWI-EAS443:3:14:1523:549#0/1
GTGAATCAATAATTGTAGAATCTGGTGACCCGAATGCACT
+HWI-EAS443:3:14:1523:549#0/1
``baa``_````]`__aa]`_a^a_Ya_[¥U]`_[-T^Y_
@HWI-EAS443:3:14:1534:619#0/1
GCGCATAGTTCCTGTAATCTCAAATTTTTCTTCAATTGTC
+HWI-EAS443:3:14:1534:619#0/1
aaa[`a`a_a_Wa`X^[a^`_``[_a``a_`^]``__`IQ
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ATTCAGTAGCCCTGCAGTGGGACACTTCTGCTGTAATA
+HWI-EAS443:3:14:1606:1093#0/1
aba`ba`a`_aa`[``^a`a`^a_aa__aVaa^_aba`_
@HWI-EAS443:3:14:1651:1080#0/1
GAAAGGCATAAATCCCAATTACCTCATGGCTTGAAGCAG
+HWI-EAS443:3:14:1651:1080#0/1
aa[aaY_¥[^S]_¥STWTW]]YQWR]T__YO]BBBBBBBB
@HWI-EAS443:3:14:224:334#0/1
GGGGGCTATATGAAGCAATCGAGGAGTGCCTGATTAATGA
+HWI-EAS443:3:14:224:334#0/1
abb]`aaabaabaaa`aa`aa_a__a^``_aa_a`a__`_
@HWI-EAS443:3:14:248:182#0/1
CCACAACCTTGAGGGGTTTTCGGCTGAATCGAGAAAATTGC
+HWI-EAS443:3:14:248:182#0/1
a_Y`]a^aaaa¥aaa_a`__QX^^_a`__`W[Y]^[_^`T
@HWI-EAS443:3:14:364:1779#0/1
TATTGAAGCACCGATTTGAGATAATTGAAGGAAGAGACCG
+HWI-EAS443:3:14:364:1779#0/1
``ba_abbabbb_aaaa^abaaaaaaba__aa`a`a¥__

@HWI-EAS443:3:14:368:1927#0/1
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+HWI-EAS443:3:14:368:1927#0/1
a``_aSaaS_aaWN^TPPVV]0^PVRZ¥XSPJRFR`¥UW
@HWI-EAS443:3:14:464:1241#0/1
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+HWI-EAS443:3:14:464:1241#0/1
abbbbaabbbbbbbbab`bbabaabbbbaba`babaa_aXa
@HWI-EAS443:3:14:471:1008#0/1
TTCCGATTTGTTTTCAAAGAATTCCTTGGTCATGTCTTTC
+HWI-EAS443:3:14:471:1008#0/1
a`bbb`V`ab^a`_`aaY`a`a``aaaaY^aaaaW]ZR^^
@HWI-EAS443:3:14:510:807#0/1
GGGGTTTTCGGCTGAATCGAGAAAATTGCTTCTCATTGTT
+HWI-EAS443:3:14:510:807#0/1
a`a^Paa`b_aa`aa_[^a`^S^`__a`____`__^`_^
@HWI-EAS443:3:14:524:1090#0/1
GGGGCATGGAAATGAGGCGCTGCCTTCTTCAGTCTCTTCA
+HWI-EAS443:3:14:524:1090#0/1
`aaaaabb_bbbbababba`b`a[b_aaba_a]a__a_a
@HWI-EAS443:3:14:56:733#0/1
TGTTAGGCTCTTTCCAGCCAAAGAATGTCTTCATGCATTT
+HWI-EAS443:3:14:56:733#0/1
ab^_baaa`a`_aa__[aa`__a_[`a^__Y]__^]]`^
@HWI-EAS443:3:14:59:1352#0/1
GCGTGGTGTCTCCTCAAGAATGGTTCAATTTTGGCGTTC
+HWI-EAS443:3:14:59:1352#0/1
aab_`_`baababaaaab`aaaa`a__^aab]a_]P
@HWI-EAS443:3:14:664:1137#0/1
GGGGCATGGAAATGAGGCGCTGCCTTCTTCAGTCTCTTCA
+HWI-EAS443:3:14:664:1137#0/1
a_V_¥____`¥[Y^`PYXY_Z`¥V¥^U[^]¥¥UMZU]VWS
@HWI-EAS443:3:14:792:1791#0/1
AGTGTACATAAATACGGCCTTGCTCAATGCATCCTGTGCA
+HWI-EAS443:3:14:792:1791#0/1
`_]_]aaa``¥0[][^Z]`_`][`¥¥`a^]Z^ZZ^Z^
@HWI-EAS443:3:14:854:1294#0/1
GGGGGCTATATGAAGCAATCGAGGAGTGCCTGATTAATGA
+HWI-EAS443:3:14:854:1294#0/1
^aaWX_ab¥b¥ba¥`aa^]a_]b_a^¥Y^Z]]`_`a`
@HWI-EAS443:3:14:862:1734#0/1
TTCTTGAGGACGACACCACGCCCTCAGATTGCCTGATG
+HWI-EAS443:3:14:862:1734#0/1
_Ua`X¥_a_¥Z_W¥``[_`¥YJU]UXZ¥FX¥XUXPPXB
@HWI-EAS443:3:14:889:844#0/1
GAATCAGTCAATTCACATGCCTTATTGAATTCATTTTGGGA
+HWI-EAS443:3:14:889:844#0/1
a_`a`ab`b`[Va¥Z`¥]`_^[_`^aa]]_YGX[`¥_]^[^
@HWI-EAS443:3:14:903:133#0/1
ATTCGGATTTCCATTTTCATCGACGAACGGGTGAATCAAT

+HWI-EAS443:3:14:903:133#0/1
abaaaa_`aa_[]`a`a_`a^a_`aX_`a____Za_`^UY]`
@HWI-EAS443:3:14:91:1921#0/1
ATGGAACCTCCAAGATCAAGATGAAATGGGGCATGGAAAT
+HWI-EAS443:3:14:91:1921#0/1
aaa_aaaaaaa]`aQa`a_`a`¥]TWYZ_]XNQ_Z_
@HWI-EAS443:3:14:923:656#0/1
AGGTGCTAGCAGAGCTACAGGACATTGAAAATGAAGAGAA
+HWI-EAS443:3:14:923:656#0/1
aaa]^_aabaaa`_`aa_a]_^_a`a`[____a^`_`a__
@HWI-EAS443:3:14:929:1559#0/1
CAAGAAATGGCCAGTAGGAGTCTATGGGATTCCTTCGTC
+HWI-EAS443:3:14:929:1559#0/1
aa`Y`a]aa]``NXa¥K[X_ZX¥`XTUS^`S__^[PN
@HWI-EAS443:3:14:965:1853#0/1
CTAAATTTCTTCCTGATTTGTATGATTACAAAGAGAACCG
+HWI-EAS443:3:14:965:1853#0/1
aa`a____XYbL]V_aWY_`V[aa^G]]a_^_R]_SZU`P]
@HWI-EAS443:3:15:1067:366#0/1
GGTCGGCAAGCTTGCGCATAGTTCCTGTAATCTCAAATTT
+HWI-EAS443:3:15:1067:366#0/1
a]Xa]a^aaaa_`¥^`¥]a`a`a`¥_aX[Z__aVP[____a
@HWI-EAS443:3:15:1069:1994#0/1
ACCCGAATGCACTATTGAAGCACCGATTTGAGATAATTGA
+HWI-EAS443:3:15:1069:1994#0/1
a`aa_a_aaRT_a^`^X]_Z_Y____X]Y_a^YW_]_]_^
@HWI-EAS443:3:15:1083:138#0/1
CTTCAATTGGCTTGTTCTTCTTCATGTTCTTTGTCCTTGGG
+HWI-EAS443:3:15:1083:138#0/1
aaaaabaaba_aa_`P[[^a_`a_¥[DYaa_^]Yaa^^a
@HWI-EAS443:3:15:110:1024#0/1
AAAGAATTCCTTGGTCATGTCTTTCTCTTTGACAGAAGAC
+HWI-EAS443:3:15:110:1024#0/1
`aaaZX`a`U^aaa_]^^a]`^XYa`a`__]``_a```[
@HWI-EAS443:3:15:1204:1766#0/1
GCCTGGACAGTGGTGAACAGTATATGTAACACAACAGGGG
+HWI-EAS443:3:15:1204:1766#0/1
aaabbabaaa¥aa¥aaaaba_aaaaa]a`_`aa_`^`^`¥_
@HWI-EAS443:3:15:1298:602#0/1
AGGACATTGAAAATGAAGAGAAGATCCCAAGGACAAAGAA
+HWI-EAS443:3:15:1298:602#0/1
a¥a¥]a^^^]^^YaaaabVSX¥aaaZWFSbYN¥[QO^a_`
@HWI-EAS443:3:15:137:1639#0/1
GAAGTTCGGTGGGAGACTTTGGTCGGCAAGCTTGCGCATA
+HWI-EAS443:3:15:137:1639#0/1
aZZ]S[^T[Oa^¥aaa`a]`ZUUaS_^`^[a[^[^_aa][
@HWI-EAS443:3:15:1394:48#0/1
ATGGGCCTCGACACTTGGCCTATCGCAGTCCTCAAGAGCA
+HWI-EAS443:3:15:1394:48#0/1
a^ba^ab¥`X¥^_a¥_`[N_____Q^_U_XS_¥Z]_`H¥

@HWI-EAS443:3:15:1396:22#0/1
CTCCACAACCTTGAGGGGTTTTTCGGCTGAATCGAGAAAATT
+HWI-EAS443:3:15:1396:22#0/1
aTa_T¥UWbb_bTZ]Z_S^`¥]`a_`XZ]X`XWVYWUWY
@HWI-EAS443:3:15:1517:1652#0/1
GAGGAACCTATTTTACAGCAGAAGTGTCCCACTGCAGGGCT
+HWI-EAS443:3:15:1517:1652#0/1
^_ZYVa`baba]a`aaa_aaW`^]b^[VXa`^a]]a]_V[
@HWI-EAS443:3:15:1542:736#0/1
ATTCTTTGGCTGGAAAGAGCCTAACATAGTCAAACCACAT
+HWI-EAS443:3:15:1542:736#0/1
aaa]`_S`^^`[X__RWZ^Z`S`U[^[Z[_`¥ZSNTN_X
@HWI-EAS443:3:15:154:224#0/1
CCCGAATGCACTATTGAAGCACCGATTTGAGATAATTGAA
+HWI-EAS443:3:15:154:224#0/1
abbaabaaaaaaaaaaaa`aa_`a__`a^a_`^^^^^^^
@HWI-EAS443:3:15:1741:1180#0/1
TGGCGTTCACCTCTTTTGACATTTGGGAAAGCTTGCCCTC
+HWI-EAS443:3:15:1741:1180#0/1
abbbbaaTaYa_V`ba`N^W`_`U]a__`SZ`_ZR^S_^
@HWI-EAS443:3:15:245:1166#0/1
GCGTCTCCACAACCTTGAGGGGTTTTTCGGCTGAATCGAGAA
+HWI-EAS443:3:15:245:1166#0/1
abbYaabbab`aabaabaaa]abaaa[aaaab`aaaa`a
@HWI-EAS443:3:15:246:488#0/1
AGCCAACAAAATAAAATCTGAGAAGACACACATTCACATC
+HWI-EAS443:3:15:246:488#0/1
abbaQY^¥`aa^abaaa_aaaa[[_`bU_aaaa_aa¥
@HWI-EAS443:3:15:259:726#0/1
GGGGCATGGAAATGAGGCGCTGCCTTCTTCAGTCTCTTCA
+HWI-EAS443:3:15:259:726#0/1
^]__aa_aaaa_aaaa[a`_`a`U_`]`]_YNM_¥_^ZFY
@HWI-EAS443:3:15:27:1366#0/1
GGGGGCTATATGAAGCAATCGAGGAGTGCCTGATTAATGA
+HWI-EAS443:3:15:27:1366#0/1
]bbabbaabbaabbbbbbbaabab^baabb`bbbbaaa
@HWI-EAS443:3:15:368:286#0/1
GTTTCCGATTTGTTTTCAAAGAATTCCTTGGTCATGTCTT
+HWI-EAS443:3:15:368:286#0/1
aY_____aWZ[W_T`[]`^_ZN[Z_[]^^]WUT[]Z^^^
@HWI-EAS443:3:15:504:629#0/1
GCAACATCTTCTCCTATTTTCATCAAGTTCTATCCAGCTTG
+HWI-EAS443:3:15:504:629#0/1
aaaaaaaaaaaaaaaa^aa`aa_a__^____a_`_a_a`_a
@HWI-EAS443:3:15:538:1315#0/1
AACCCATACAGTTTGTTCCTTCCGCTTCTTCTTTGGTCC
+HWI-EAS443:3:15:538:1315#0/1
abaaaa`aaaaU_^a[_`__WW]__W_¥^^¥__Z¥XX^
@HWI-EAS443:3:15:548:601#0/1
CTTGAATCAGTCAATTCACATGCCTTATTGAATTCATTTT

+HWI-EAS443:3:15:548:601#0/1
abbb`ba````bbaaabbaaaa`aaa`aaa`_`aaaaa^`
@HWI-EAS443:3:15:594:574#0/1
GGGTTTTCGGCTGAATCGAGAAAATTGCTTCTCATTGTTC
+HWI-EAS443:3:15:594:574#0/1
a`b_aaa`^`Xbba`a]a¥`[`a`¥`^^`¥[`^`a^]_
@HWI-EAS443:3:15:609:1961#0/1
CAGGCCATGATTGGTCTCTTCCTTCAATTATCTCAAATC
+HWI-EAS443:3:15:609:1961#0/1
abbbbabbbababbaa_a__abab_aaaaaaaaa_abbSU
@HWI-EAS443:3:15:650:374#0/1
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+HWI-EAS443:3:15:650:374#0/1
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@HWI-EAS443:3:15:74:1386#0/1
GATCTCTAGCAAGCTGGGTCCAAAATGAATTCATAAGGC
+HWI-EAS443:3:15:74:1386#0/1
S]^Y[^```_[^`TPPa`¥]Z`[^`Y^Z`b_a`^a^`
@HWI-EAS443:3:15:812:1396#0/1
AATTGAAGGAAGAGACCGAATCATGGCCTGGACAGTGGTG
+HWI-EAS443:3:15:812:1396#0/1
`babbbbaa_abb`a^`a`a`aaaa_Q`¥U][`_0_dW`
@HWI-EAS443:3:15:880:1889#0/1
GAAGAGACCGAATCATGGCCTGGACAGTGGTGAACAGTAT
+HWI-EAS443:3:15:880:1889#0/1
]RU^Va`0`a_WV]_`YZQ]I_U`_]N[^Z__X_¥
@HWI-EAS443:3:15:997:1033#0/1
CGAATGCACTATTGAAGCACCGATTTGAGATAATTGAAGG
+HWI-EAS443:3:15:997:1033#0/1
¥`bbbaaababb`bababbaababbbbabababababaaaa
@HWI-EAS443:3:16:1019:461#0/1
GGAGGAAGGCTCTATTGGGAAAGTGTGCAGGACCTTACTG
+HWI-EAS443:3:16:1019:461#0/1
aa_aaHP]_`^`_¥X]a`a[U[[T_WaU^]VSYU]]]ST]
@HWI-EAS443:3:16:103:1768#0/1
TGAGAAAGGCATAAATCCCAATTACCTCATGGCTTGAAG
+HWI-EAS443:3:16:103:1768#0/1
`V`ababaabb`a_a`a`aaaaaa__aaa]_`_J`X`B
@HWI-EAS443:3:16:1153:408#0/1
CAGAGCCCAGATCTCTAGCAAGCTGGGTCCAAAATGAATT
+HWI-EAS443:3:16:1153:408#0/1
aba`b`[^`aaabaa`aaaaaa`aaa^aaa`a^aa`_`^`
@HWI-EAS443:3:16:1161:1005#0/1
GGCTCTGGCTCATCACTGTCATACTGTTTAAGGTCTCCAA
+HWI-EAS443:3:16:1161:1005#0/1
`X]Q]`YRY_¥QUUVNX¥NY^ZVGSPKZXSXVZTUNWRY^
@HWI-EAS443:3:16:1172:304#0/1
TATTTTACCAGAGTGGCCACTTCAATTGGCTTGTCTCTT
+HWI-EAS443:3:16:1172:304#0/1
`]bb`aabaaaa`GaX_a^_a_YZ__Z¥XNVaJUZRFRZU

@HWI-EAS443:3:16:1243:212#0/1
GAAC TTTGTAAGTATGGAGTTCTCACTCACTGACCCGAGA
+HWI-EAS443:3:16:1243:212#0/1
ab[`H`]¥F]a`V¥TaUV^Z[a[UMUR_`R`BBBBBBBB
@HWI-EAS443:3:16:1301:541#0/1
GAAAAAGTAGACTTTGATGACTGCAAAGATGTTGGAGACC
+HWI-EAS443:3:16:1301:541#0/1
a`aaa`a_ba`aaa`aaaa___a__`````_a_`a__a]]Y
@HWI-EAS443:3:16:1360:1457#0/1
GACTGAAGAAGGCAGCGCCTCATTTCATGCCCCATTTC
+HWI-EAS443:3:16:1360:1457#0/1
_ba`aaaaa¥X¥_b_^aPX^Q]_Y`QX[Q_XLN]¥`_[Y¥
@HWI-EAS443:3:16:136:160#0/1
CCAATTTCAATGAACCGTTCTCTTTGTAATCATACAAAT
+HWI-EAS443:3:16:136:160#0/1
aaaab^^aa[^[^`aaaa]`a_`^`_aZ]__]_¥__]^_^
@HWI-EAS443:3:16:1377:342#0/1
GTCCGCTTTGGTGGCCATCTCCTCTCCAGTGAATGAAAAG
+HWI-EAS443:3:16:1377:342#0/1
a_aaa`abaaY_aa^^[Ya]_]_¥V][^U`a^^Y^_Y_
@HWI-EAS443:3:16:1446:1273#0/1
ACTTGAGGGGTTTTTCGGCTGAATCGAGAAAATTGCTTCTC
+HWI-EAS443:3:16:1446:1273#0/1
ab`ZS` `bba_b]Z`T[]b_a[` `S]P[_aa_`R^[TZ_
@HWI-EAS443:3:16:146:460#0/1
ATTTTACAGCAGAAGTGTCCCACTGCAGGGCTACTGAATA
+HWI-EAS443:3:16:146:460#0/1
a`bbabaabbb]ab`G`_a`aaa^a`[aXXa__`_a^____
@HWI-EAS443:3:16:1528:1044#0/1
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+HWI-EAS443:3:16:1528:1044#0/1
URR]IOQ_`PQ`aUTQ_VRYT]`KZYQVLXMLUaW_¥]ZS
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+HWI-EAS443:3:16:1601:1979#0/1
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@HWI-EAS443:3:16:1613:348#0/1
GCCATATTTTCACCGAGTGCCCACTTCAATTGGCTTGTTTC
+HWI-EAS443:3:16:1613:348#0/1
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@HWI-EAS443:3:16:1619:552#0/1
ACATAATGAAGGGAGTGTACATAAATACGGCCTTGCTCAA
+HWI-EAS443:3:16:1619:552#0/1
aaabaabb`aaaa`a]a]a^`_a` `a^a`^^]^^]ZX^
@HWI-EAS443:3:16:1654:382#0/1
GGCATGGAAATGAGGCGCTGCCTTCTTCAGTCTTTCAGC
+HWI-EAS443:3:16:1654:382#0/1
aa_aa`Y¥` ` `¥a`Wa_aaWQ_`Y]]W¥_[Q^¥¥WUWYB
@HWI-EAS443:3:16:1673:794#0/1
ACATAATGAAGGGAGTGTACATAAATACGGCCTTGCTCAA

+HWI-EAS443:3:16:1673:794#0/1
ababaabbaab`a^a_b_a`_aa`a`__`^`Xaa^`_¥¥_
@HWI-EAS443:3:16:1718:333#0/1
GCATAAATCCCAATTACCTCATGGCTTGGAAGCAGGTGCT
+HWI-EAS443:3:16:1718:333#0/1
aa_ab`a`S^`_`a__ZV_^^^a_____]V_[VYU[IVBB
@HWI-EAS443:3:16:1721:1483#0/1
ATTCAGTAGCCCTGCAGTGGGACACTTCTGCTGTAAAATA
+HWI-EAS443:3:16:1721:1483#0/1
aa_QZ`^^a^`WP]P^_G_¥`^`_`_`^aa^``]Z]^0_
@HWI-EAS443:3:16:290:707#0/1
CCTCTTTCGGACTGACGAAAGGAATCCCATAGACTCCTAC
+HWI-EAS443:3:16:290:707#0/1
ab`aa_¥¥`^aaXZ]aa`Z_a]`a¥`X`a`_V^`Y`__`_
@HWI-EAS443:3:16:343:1481#0/1
GGGGCATGGAAATGAGGCGCTGCCTTCTTCAGTCTTCA
+HWI-EAS443:3:16:343:1481#0/1
aa`]aa]a````aaaa_a]`])`a`_¥`]a^]ZSa¥`^¥S¥
@HWI-EAS443:3:16:35:111#0/1
GCTGAAAGTCATCCATGGCTGCACAGGATGCATTGAGCAA
+HWI-EAS443:3:16:35:111#0/1
a_a`Sa]a_aa`[a`_a`^_]NU¥^¥[¥SYSTQ[TTUS[B
@HWI-EAS443:3:16:371:1124#0/1
CCCTGCTCTTTCGTCAAGGGTGTAGTCCGCTTTGGTGGC
+HWI-EAS443:3:16:371:1124#0/1
aaaa`]]]aaaa`aV]S]`V[Qa[`^U^]X][^YK]W^UY
@HWI-EAS443:3:16:378:106#0/1
CATTCTTTGGCTGGAAAGAGCCTAACATAGTCAAACCACA
+HWI-EAS443:3:16:378:106#0/1
abbbababababbb`aaaaa]Yaaa^aaaa^``_a`____
@HWI-EAS443:3:16:379:1741#0/1
TTTCGGCTGAATCGAGAAAATTGCTTCTCATTGTTTCAGGC
+HWI-EAS443:3:16:379:1741#0/1
[KYa`a`]a[_]_aa`_aa`__Y_[¥_YW`_¥¥XY_]]]]
@HWI-EAS443:3:16:413:152#0/1
CTCCAGCCTTGAAAACCTTAGAGCCTATGTAGATGGATTC
+HWI-EAS443:3:16:413:152#0/1
abba_bbababaa`aababbaaa`aabb`abaaa`a`a`
@HWI-EAS443:3:16:431:1092#0/1
AGTCATCAAAGTCTACTTTTTCTGGTGCCATATTTTCACC
+HWI-EAS443:3:16:431:1092#0/1
aa¥baa`[aZZYaa``aaaa`aa`Za`a`aaa``¥aa_^
@HWI-EAS443:3:16:501:1398#0/1
AGAATTCCTTGGTCATGTCTTTCTCTTTGACAGAAGACTC
+HWI-EAS443:3:16:501:1398#0/1
aaa`ab]baaa_Xaaaa_ba_a_aaa__a[`aa_a^`]__
@HWI-EAS443:3:16:548:528#0/1
CAGATCTCTAGCAAGCTGGGTCCAAAATGAATTCAATAAG
+HWI-EAS443:3:16:548:528#0/1
a_a`a`ab`ab`b`aa`baUaa_b_^aa`_a__a`aaaa

@HWI-EAS443:3:16:627:496#0/1
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+HWI-EAS443:3:16:627:496#0/1
`b`bba^[\`a[\`a]aaaa__aaa¥aa__^V]__`Y[Y
@HWI-EAS443:3:16:62:251#0/1
GCCCACTTCAATTGGCTTGTCTCTTCATGTTCTTTGTCC
+HWI-EAS443:3:16:62:251#0/1
abaaa_aaa¥`__a`a_¥XQ]X`]]_V_]RY^W[__¥WYZ
@HWI-EAS443:3:16:707:1357#0/1
GGGGTTTTCGGCTGAATCGAGAAAATTGCTTCTCATTGTT
+HWI-EAS443:3:16:707:1357#0/1
aaaV0a_a`a_a`aa_¥_^___a_`][_^^_`__`^]_ZZ
@HWI-EAS443:3:16:769:1764#0/1
GAGATAATTGAAGGAAGAGACCGAATCATGGCCTGGACAG
+HWI-EAS443:3:16:769:1764#0/1
`Zaaaaaaaaaaaaaaaaaaaa`aa_a`aa_____]__Z^R`]
@HWI-EAS443:3:16:786:738#0/1
AACATCTTTGCAGTCATCAAAGTCTACTTTTTCTGGTGCC
+HWI-EAS443:3:16:786:738#0/1
`aabaabaa`aa`aaa`a^¥a]`aa`aaaa`a`_Y``_
@HWI-EAS443:3:16:796:871#0/1
AAGACATTCTTTGGCTGGAAAGAGCCTAACATAGTCAAAC
+HWI-EAS443:3:16:796:871#0/1
a^]]^^[^]`_____^_a_^_]Y`_]^[]_^^_T]^`_U
@HWI-EAS443:3:16:935:204#0/1
CGATTTGAGATAATTGAAGGAAGAGACCGAATCATGGCCT
+HWI-EAS443:3:16:935:204#0/1
ab¥aaba_a_aa`a][^`_aV`_`a_`[_]_`_`^`_WV^
@HWI-EAS443:3:17:1065:1055#0/1
ATTTTACAGCAGAAGTGTCCCACTGCAGGGCTACTGAATA
+HWI-EAS443:3:17:1065:1055#0/1
aaababaaaaaaaaaVa`a_`a`_`a_`_a_X_`¥`a__`_
@HWI-EAS443:3:17:1116:1691#0/1
GGTGAACCTTTGTAAGTATGGAGTTCTCACTCACTGACCCG
+HWI-EAS443:3:17:1116:1691#0/1
T_[``[ab`ba`ba`b`bba`aababbbabbababaaaaa
@HWI-EAS443:3:17:1130:1337#0/1
CTTGCTAGAGATCTGGGCTCTGGCTCATCACTGTCATACT
+HWI-EAS443:3:17:1130:1337#0/1
aaa``aaa`aa`_`¥`aaaa`Z^U_`a[``_aaUY`_]_a
@HWI-EAS443:3:17:1131:302#0/1
AGACAATTGAAGAAAAATTTGAGATTACAGGAACTATGCG
+HWI-EAS443:3:17:1131:302#0/1
ab```aabaaaabaa_____aaaa_a```a_a`]_a^`a_`_`
@HWI-EAS443:3:17:122:114#0/1
ATCGGAAACATGGCCAATCGGAGAGTCACCCAGGGGAGTG
+HWI-EAS443:3:17:122:114#0/1
Zbbaaa]Zaaaabaa]^`]¥^^a]`Wa^Z^]S^Y_aU`T`
@HWI-EAS443:3:17:132:1431#0/1
CATAAATACGGCCTTGCTCAATGCATCCTGTGCAGCCATG

+HWI-EAS443:3:17:132:1431#0/1
a`abbb)`aaaUaaaab_aYaa[]`aaaa^^^ [K]a_[GU
@HWI-EAS443:3:17:1330:728#0/1
GAGCCTTCCCTCCACTCCCCTGGGTGACTCTCCGATTGGCC
+HWI-EAS443:3:17:1330:728#0/1
^R```a`a`_W]W]SX[SZ¥U]aP_[FX0Q¥S^KUJYVT¥
@HWI-EAS443:3:17:1365:771#0/1
ATCTTTTTCATTCACTGGAGAGGAGATGGCCACCAAAGCGG
+HWI-EAS443:3:17:1365:771#0/1
a[aba`Vaa`aaa¥]Z]aaa]V^[a¥]a`_][^aLRTX^X
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GAAGATCCCAAGGACAAAGAACATGAAGAGAACAAGCCAA
+HWI-EAS443:3:17:137:331#0/1
aabaaaabaaX`_abaa_aaaaaaaa`aa`a`aa`a_a_
@HWI-EAS443:3:17:1419:669#0/1
CTTGCTCAATGCATCCTGTGCAGCCATGGATGACTTTCAG
+HWI-EAS443:3:17:1419:669#0/1
`bbbaabaabbabbbb_ba_b^aaa_aaaaaab`Wa``¥`a
@HWI-EAS443:3:17:1430:1839#0/1
CATTAATCAGGCACTCCTCGATTGCTTCATATAGCCCCC
+HWI-EAS443:3:17:1430:1839#0/1
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@HWI-EAS443:3:17:1439:618#0/1
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+HWI-EAS443:3:17:1439:618#0/1
V__¥a``bb`]bUX[aaV^ab_`[_^baaZ[QZ^XX_a
@HWI-EAS443:3:17:1453:444#0/1
ATCCCAATTACCTCATGGCTTGGAAGCAGGTGCTAGCAGA
+HWI-EAS443:3:17:1453:444#0/1
aa[a_ab``a]¥aTRaa[_aaY_¥_V^`U^HYVW¥`UZ_Q
@HWI-EAS443:3:17:1474:411#0/1
ATTCGGATTTCCATTTTCATCGACGAACGGGGTGAATCAAT
+HWI-EAS443:3:17:1474:411#0/1
aba_^JRa_`¥aabaaX_a`aa_`_`]]aa_]a`_ZZ^^_
@HWI-EAS443:3:17:1750:372#0/1
CATGGAAATGAGGCGCTGCCTTCTTCAGTCTTTCAGCAG
+HWI-EAS443:3:17:1750:372#0/1
aabbbb_ba]bbbb`[`b``a_¥_Y^^`]a_aa[_`Z^`
@HWI-EAS443:3:17:1772:279#0/1
CCACTCCCCTGGGTGACTCTCCGATTGGCCATGTTTCCGA
+HWI-EAS443:3:17:1772:279#0/1
aaaabbbbaaaabb^b`___a_[`¥_^a___^^XW^aWW]U
@HWI-EAS443:3:17:207:1592#0/1
GAGCCTATGTAGATGGATTCGAGCCGAACGGCTGCATTGA
+HWI-EAS443:3:17:207:1592#0/1
aaYGW¥a_bV¥^V]NPPT]^_aXUYRS¥¥]WVBBBBBBBB
@HWI-EAS443:3:17:218:1150#0/1
GGGGCATGGAAATGAGGCGCTGCCTTCTTCAGTCTTCA
+HWI-EAS443:3:17:218:1150#0/1
R][TVV`Q[XYbba^^abab¥ZabaabW]`W`S```¥aZ`

@HWI-EAS443:3:17:219:1305#0/1
CATTAATCAGGCACTCCTCGATTGCTTCATATAGCCCCC
+HWI-EAS443:3:17:219:1305#0/1
]]Y_¥Y^^_N]a_b¥^WW_[a`a]a_abZ]]NK_aIZU]`
@HWI-EAS443:3:17:270:1860#0/1
ACCGAACTTCTCCAGCCTTGAAAACCTTTAGAGCCTATGTA
+HWI-EAS443:3:17:270:1860#0/1
^baa`aaaaaaaa_aa`_`aaaa`__a`_]a^aaa`^a
@HWI-EAS443:3:17:271:563#0/1
CTGGGCTCTGGCTCATCACTGTCATACTGTTAAGGTCTC
+HWI-EAS443:3:17:271:563#0/1
aa_aa_a`a`aaaa`a^`_aUaaa¥_aa^_a_____XR^¥
@HWI-EAS443:3:17:27:138#0/1
TCAAAACTAGGCTTTTCACTATAAGACAAGAAATGGCCAG
+HWI-EAS443:3:17:27:138#0/1
Y¥^TT`_a¥_¥¥VX`S```]T`aa]`TJ[XYOXT]X[RRY
@HWI-EAS443:3:17:340:1040#0/1
GAGACCTTAAACAGTATGACAGTGATGAGCCAGAGCCCAG
+HWI-EAS443:3:17:340:1040#0/1
`a`aZ^_[]a`[`b]]^aaa]]]YW`V`WN[Z^^`RTQVL
@HWI-EAS443:3:17:410:1975#0/1
GGGGGCTATATGAAGCAATCGAGGAGTGCCTGATTAATGA
+HWI-EAS443:3:17:410:1975#0/1
aa`YJ`a[]`VZba[`abS_aa¥T]aW`^a`_aS_a_``_
@HWI-EAS443:3:17:419:799#0/1
CAGGGGTAGAGAAGCCTAAATTTCTCCTGATTTGTATGA
+HWI-EAS443:3:17:419:799#0/1
`[_`UY[Y¥Za_a_`aYaW_a_``^[_][[MZ]^_Y[^a]
@HWI-EAS443:3:17:421:1237#0/1
GCCCCATTCAATTGGCTTGTCTCTTCATGTTCTTTGTCC
+HWI-EAS443:3:17:421:1237#0/1
abZb`a`a_b]]`]PU]]Q¥]RPXa`[Y^SQ[QW`XDNW`
@HWI-EAS443:3:17:463:1563#0/1
AGACATTCTTTGGCTGGAAGAGCCTAACATAGTCAAACC
+HWI-EAS443:3:17:463:1563#0/1
_[a`a`aaa^`_Yaa^^[a`ZXZW^^_a``¥__YX```_^^
@HWI-EAS443:3:17:490:2001#0/1
GGGGGCTATATGAAGCAATCGAGGAGTGCCTGATTAATGA
+HWI-EAS443:3:17:490:2001#0/1
aa]PNZ`_a_¥Y[_ZH_a^V]NTNNNLZVTSSLXR_]TW_
@HWI-EAS443:3:17:502:1357#0/1
TGAACCTTTGTAAGTATGGAGTTCTCACTCACTGACCCGAG
+HWI-EAS443:3:17:502:1357#0/1
M[VQ¥bbbbbaaWJa]_W_abab_YWbab_S`W¥]`aa`a
@HWI-EAS443:3:17:554:92#0/1
ATAGCCCCCAAGATCGAAGTTCCAGGTTCCAGGTTGTC
+HWI-EAS443:3:17:554:92#0/1
abaa`^aaa`]aa^¥¥]Z_^XIRQSG¥^U¥T¥¥¥^PW^WW
@HWI-EAS443:3:17:556:160#0/1
GGACAGTGGTGAACAGTATATGTAACACAACAGGGGTAGA

+HWI-EAS443:3:17:556:160#0/1
ab¥abbabbab`a`ab]aaaaa`aa_a_a`_`aa_`Z__^
@HWI-EAS443:3:17:607:79#0/1
ATCCGAAAATCGAACTAACAAGTTTGTGCAATATGCAC
+HWI-EAS443:3:17:607:79#0/1
`ba`baaa^S``_¥__aX^___^a]__`_¥X^]
@HWI-EAS443:3:17:64:42#0/1
TTCTTGTCTTATAGTGAAAAGCCTAGTTTTGATTCTTGCC
+HWI-EAS443:3:17:64:42#0/1
aaaaaa_aaaa`a]a_`_`___^`a^_^_]_^]_^]_`
@HWI-EAS443:3:17:693:1742#0/1
CACCACGCCCCCTCAGATTGCCTGATGGGCCTCTTGCCA
+HWI-EAS443:3:17:693:1742#0/1
`a^_aa`_a_`_`a`PFF¥P^HZ_F^TPUaF_DMI]BBB
@HWI-EAS443:3:17:719:1545#0/1
CAATAATTGTAGAATCTGGTGACCCGAATGCACTATTGAA
+HWI-EAS443:3:17:719:1545#0/1
aabba`abb_ba`bab_aa[aaaa^aaa_`Xa_`_`a_]a]
@HWI-EAS443:3:17:782:264#0/1
GTTTTGATTCTTGCCCTGCTCTTTCGTC AAGGGTGTAGT
+HWI-EAS443:3:17:782:264#0/1
a¥^aaa_aa`_`^^`[[`_`¥`_`_¥_a_`_Uaa^VaV¥^U
@HWI-EAS443:3:17:788:1293#0/1
ACCGAATCATGGCCTGGACAGTGGTGAACAGTATATGTAA
+HWI-EAS443:3:17:788:1293#0/1
abb`]`a`[`_`a`_`___a`_ZW^V[Z¥`_`W]^]]_V]]
@HWI-EAS443:3:17:795:1493#0/1
TGGCGTTCACCTTCTTTTGACATTTGGGAAAGCTTGCCCTC
+HWI-EAS443:3:17:795:1493#0/1
aab`b_a¥TL^_U_a_`S¥a[[aaWa[[a_^]a_^_aT^
@HWI-EAS443:3:17:79:907#0/1
CAAGAAATGGCCAGTAGGAGTCTATGGGATTCCTTTTCGTC
+HWI-EAS443:3:17:79:907#0/1
aaaa_aa_a_`a`Z^WT]^V^`____^Y_^]¥_^[YPZ
@HWI-EAS443:3:17:809:905#0/1
GGGGCATGGAAATGAGGCGCTGCCTTCTTCAGTCTCTTCA
+HWI-EAS443:3:17:809:905#0/1
aa_a`aaaa_aaaaa]aa_`a^___a¥^_ZMM_¥_W^
@HWI-EAS443:3:17:82:189#0/1
CACTGTCATACTGTTTAAGGTCTCCAACATCTTTGCAGTC
+HWI-EAS443:3:17:82:189#0/1
abaab`bbabaaaabaa]^aZaaa_a`_`_`_a__a^`_`X_
@HWI-EAS443:3:17:971:921#0/1
AGACAATTGAAGAAAAATTTGAGATTACAGGAACTATGCG
+HWI-EAS443:3:17:971:921#0/1
]Y¥Y`_aa]Z¥b_a_`_`___a_`_`_^]LX_]][Z`P^¥X_
@HWI-EAS443:3:17:98:601#0/1
TGGGATTTATGCCTTTCTCATGTGGTTTGGACTATGTTAGG
+HWI-EAS443:3:17:98:601#0/1
ab¥]]aaa[]¥_`aa`aa_`a_`_`___^T^[]^]_YZ[^^

@HWI-EAS443:3:18:1023:1426#0/1
AAGCAATTTTCTCGATTCAGCCGAAAACCCCTCAAGTTGT
+HWI-EAS443:3:18:1023:1426#0/1
abaa^`aa_`^`baa]aa_aaaa`a`a`_`a_aaZ`U¥`W
@HWI-EAS443:3:18:1094:130#0/1
CGAACTTCTCCAGCCTTGAAAACCTTTAGAGCCTATGTAGA
+HWI-EAS443:3:18:1094:130#0/1
abaaaaaaaaa`a`a`aaa_a^`a`_`aRa]`a`_`aY^`_¥
@HWI-EAS443:3:18:1164:767#0/1
GGGGGCTATATGAAGCAATCGAGGAGTGCCTGATTAATGA
+HWI-EAS443:3:18:1164:767#0/1
ba[`]aa]bb`^`aa]Y`Zaa^a`_]``a__aZV¥``
@HWI-EAS443:3:18:1166:1242#0/1
TCAAGTTCTATCCAGCTTGAATCAGTCAATTCACATGCCT
+HWI-EAS443:3:18:1166:1242#0/1
aaab`_aabbba__aaaa`baaaa`__a`a`aa`_`^Y[`
@HWI-EAS443:3:18:1177:1233#0/1
TCCGATTGGCCATGTTTCCGATTTGTTTCAAAGAATTCC
+HWI-EAS443:3:18:1177:1233#0/1
aabbaaa`aaaa`[ab____a`aa]aa`__aa____^`^`
@HWI-EAS443:3:18:1231:446#0/1
AATGCATCCTGTGCAGCCATGGATGACTTTCAGCTGATCC
+HWI-EAS443:3:18:1231:446#0/1
a`ba[aa^]a]aa_^_Y^¥^`^X_YN_YVY]^VY]VXXV
@HWI-EAS443:3:18:1265:158#0/1
GGCCATGTTTCCGATTTGTTTCAAAGAATTCCTTGGTCA
+HWI-EAS443:3:18:1265:158#0/1
aaaa`bb_aa`aaaaaab````____a`Z``__a`a_Z_^
@HWI-EAS443:3:18:1399:610#0/1
GGGTGAATCAATAATTGTAGAATCTGGTGACCCGAATGCA
+HWI-EAS443:3:18:1399:610#0/1
aaaT_¥aa`¥X^`_a`^¥^`Xa[¥_a`Za^W]W`^^^^^]
@HWI-EAS443:3:18:1403:1142#0/1
CGGCTGAATCGAGAAAATTGCTTCTCATTGTTTCAGGCACT
+HWI-EAS443:3:18:1403:1142#0/1
a`aaabab`a`_b`_`aaaa]aa_a`aaaa````_`aaY^`_`
@HWI-EAS443:3:18:1447:276#0/1
ATCCCAAGGACAAAGAACATGAAGAGAACAAGCCAATTGA
+HWI-EAS443:3:18:1447:276#0/1
aaaa[^^aa¥_a`aa`_^`a^`_`_`_`^[_`_aVNZ^_V^]
@HWI-EAS443:3:18:1447:412#0/1
GTCTCCACAACCTTGAGGGGTTTTTCGGCTGAATCGAGAAAA
+HWI-EAS443:3:18:1447:412#0/1
a_]Z[a]^a^aab`_`aa`Pa_]Xa_¥`_a^]W]]_]^^[
@HWI-EAS443:3:18:1499:1072#0/1
GTGCTTCAATAGTGCATTTCGGTCCAGATTCTACAATT
+HWI-EAS443:3:18:1499:1072#0/1
aaaaaa`aaaaa¥bXaa`a[Za¥_a^^¥a_aa¥a`U^Ya`
@HWI-EAS443:3:18:1502:1009#0/1
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+HWI-EAS443:3:18:1502:1009#0/1
¥V^`abaU_Z`K`b`S^aZYT`a^Q`V``_SUa_QV^Z_XV
@HWI-EAS443:3:18:158:1022#0/1
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+HWI-EAS443:3:18:158:1022#0/1
aa^_aaa`a`a_a_a`a_Y[___a`[^_^__^^]aY
@HWI-EAS443:3:18:1665:1870#0/1
GTCCTGCACACTTTCCCAATAGAGCCTTCCCTCCACTCCCC
+HWI-EAS443:3:18:1665:1870#0/1
ZLYa`^`aa[]^¥YUbXQZY¥^`YUUUM_UU[UUUUW
@HWI-EAS443:3:18:1693:598#0/1
CCTGATTTGTATGATTACAAAGAGAACCGTTCATTGAAA
+HWI-EAS443:3:18:1693:598#0/1
abbbbbbbbabbaabbbbaa`ababaaa^`b`a^ababaaa
@HWI-EAS443:3:18:170:1591#0/1
CCCCTGTTGTGTACATATACTGTTCCACTGTCCAGGC
+HWI-EAS443:3:18:170:1591#0/1
abaa_`W^aQ__`a`aa]_aa^`aaa`a_¥[R_¥¥Z]
@HWI-EAS443:3:18:1732:1903#0/1
GAGCCTTCCCTCCACTCCCCTGGGTGACTCTCCGATTGGCC
+HWI-EAS443:3:18:1732:1903#0/1
`^^a_[^a]X¥aS`Iaa]a_^`UZab¥¥a^_a]a]`¥MQ
@HWI-EAS443:3:18:1755:1069#0/1
AAGAGACCGAATCATGGCCTGGACAGTGGTGAACAGTATA
+HWI-EAS443:3:18:1755:1069#0/1
[^]¥RZ_¥¥]¥Y^_¥¥]WRR[^¥VV¥[`YTTQRDKVY
@HWI-EAS443:3:18:211:1069#0/1
CGAAAATCGAAACTAACAAGTTTGCTGCAATATGCACACA
+HWI-EAS443:3:18:211:1069#0/1
aa_ab^aa^)`]aa`^`aaa]````__aa_`_a_aa`^`_
@HWI-EAS443:3:18:268:320#0/1
GAAGATCCCAAGGACAAAGAACATGAAGAGAACAAGCCAA
+HWI-EAS443:3:18:268:320#0/1
]_TZ`Z`[KZbb`]ab¥N^`a[`ab`]Y^aaa]`^`aa_X
@HWI-EAS443:3:18:300:356#0/1
AGGACATTGAAAATGAAGAGAAGATCCCAAGGACAAAGAA
+HWI-EAS443:3:18:300:356#0/1
a`_[^`^aaa]¥_aba_a^¥¥````_a_`_¥_^`_a`_
@HWI-EAS443:3:18:367:1694#0/1
AAGAATTCCTTGGTCATGTCTTTCTTTGACAGAAGACT
+HWI-EAS443:3:18:367:1694#0/1
aa^^_aS`^aa]UWaYaaPY`__[a__^aS`_W¥a]`^_
@HWI-EAS443:3:18:406:1177#0/1
AAACAAACTTCCAAATGTGTGCATATTGCAGCAAACCTGT
+HWI-EAS443:3:18:406:1177#0/1
_ba_bbbaaa_aaa`a^`Y_a_a`_^_a^aa¥^_^`_
@HWI-EAS443:3:18:415:239#0/1
CCGAGACTGGAGCCACACAAATGGGAAAAATACTGTGTTC
+HWI-EAS443:3:18:415:239#0/1
aa`aa`_`_`aaY`__^_]^`_`^`Y¥]]^^_W^^Y_^UL

@HWI-EAS443:3:18:448:1118#0/1
TCCACTCCCCTGGGTGACTCTCCGATTGGCCATGTTTCCG
+HWI-EAS443:3:18:448:1118#0/1
aaabaaaa__a^aUa_[`a^^`_[U¥`^Z[¥T¥T¥^V[Q
@HWI-EAS443:3:18:471:268#0/1
GCATTGAGCAAGGCCGTATTTATGTACTCCCTTCATTA
+HWI-EAS443:3:18:471:268#0/1
a````_``_aa]`[]^_V[^¥^^]Z^]¥UZZ]YWXZZWZZ
@HWI-EAS443:3:18:607:753#0/1
GGTGACCCGAATGCACTATTGAAGCACCGATTTGAGATAA
+HWI-EAS443:3:18:607:753#0/1
abOb`a[^aYaXVW_^^aa`_`^__^¥Z`[_[TORRV^^_
@HWI-EAS443:3:18:639:614#0/1
ATCAAATGCATGAAGACATTCTTTGGCTGGAAAGAGCCTA
+HWI-EAS443:3:18:639:614#0/1
]aa`baa_ZYaaba`aaa_X`_`_a`_`a^^aa`_`WP`_
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+HWI-EAS443:3:18:703:628#0/1
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+HWI-EAS443:3:18:789:1534#0/1
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@HWI-EAS443:3:18:842:564#0/1
CCCGAATGCACTATTGAAGCACCGATTTGAGATAATTGAA
+HWI-EAS443:3:18:842:564#0/1
aZb_IYYa[`a[aaa_a[X^____`_Y__W_]_]__¥_`^
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CTCCAACATCTTTGCAGTCATCAAAGTCTACTTTTTCTGG
+HWI-EAS443:3:18:848:365#0/1
abbaababbbbaaabab`abaaaaa¥aaa_aa`_```aa
@HWI-EAS443:3:18:856:315#0/1
TTGGGGGGCTATATGAAGCAATCGAGGAGTGCCTGATTAA
+HWI-EAS443:3:18:856:315#0/1
^abba_aab``bbab`aaaa_a¥a`_`a_aY`_`_`¥`_`^
@HWI-EAS443:3:18:875:1581#0/1
TGTGGTTTACTATGTTAGGCTCTTTCCAGCCAAAGAATG
+HWI-EAS443:3:18:875:1581#0/1
a`_baYb``a_^`b¥^aaa]VYP_aa_Wa`_aa_aU^`^0
@HWI-EAS443:3:18:895:771#0/1
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+HWI-EAS443:3:18:895:771#0/1
^``]baba`_`baa]a_]aaa^`a`_`aa`^`_¥X]____`_a`
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GCCCACTTCAATTGGCTTGTCTCTTCATGTTCTTTGTCC
+HWI-EAS443:3:18:983:45#0/1
a``U`]^_]_^`_R_W[U¥SMWWVMTT]WWHW^WWYWY
@HWI-EAS443:3:19:1000:554#0/1
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+HWI-EAS443:3:19:1000:554#0/1
aaba`ab`bbaaabaaa`a_aa_`^`aa__aa_`a_a_P¥
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+HWI-EAS443:3:19:1006:622#0/1
]W_a^`^S_a¥]a¥[Y`^ZWaXPXP)`_`aX`a[`]^UY[
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GCCAAGTGTGCGAGGCCCATGTTCCCTATATGTGAGAACCAA
+HWI-EAS443:3:19:1008:857#0/1
```]\_b^a\_abbaaaa]aa`^aa\_a]N]\_a\_a``a^UV``  
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+HWI-EAS443:3:19:1061:550#0/1  
a``\_W¥ab`J¥baaa\_V^]^bbb`aXU¥`aaaa`P^PXa\_  
@HWI-EAS443:3:19:1075:100#0/1  
ATGAAATGGAAATCCGAATACATGAAACAACTTCCAAAT  
+HWI-EAS443:3:19:1075:100#0/1  
aa\_b\_aaa`\_\_\_aa^a`\_a\_^a`\_\_`^a\_^a\_^¥\_]`^`  
@HWI-EAS443:3:19:107:185#0/1  
GAGAAAGGCATAAATCCCAATTACCTCATGGCTTGAAGC  
+HWI-EAS443:3:19:107:185#0/1  
V]`baa\_X\_`Y``ba\_\_aa^^Zaaa`]P``aYMT^BBBB  
@HWI-EAS443:3:19:1291:1040#0/1  
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+HWI-EAS443:3:19:1291:1040#0/1  
ab^```a`\_a^a`aa`U¥S^[SWZWMN\_QRVQVRVBBBB  
@HWI-EAS443:3:19:1317:79#0/1  
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+HWI-EAS443:3:19:1317:79#0/1  
aaa¥VFZ¥Xa^RRa]¥`baNPax¥]LZ¥]S\_^PST[]R^^  
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TGCTAGCAGAGCTACAGGACATTGAAAATGAAGAGAAGAT  
+HWI-EAS443:3:19:1365:1037#0/1  
\_V¥\_bbba¥[P]b`aa\_aaaaa\_`aaa^]```a\_\_\_\_\_]  
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GCAGGGCAAGAATCAAACTAGGCTTTTCACTATAAGACA  
+HWI-EAS443:3:19:152:1121#0/1  
[\_\_¥U`\_`aULU^¥aa[]aa¥OTVDRX^G`WU]VZ[EPX^  
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TTCCGATTTGTTTTCAAAGAATTCCTTGGTCATGTCTTTC  
+HWI-EAS443:3:19:1582:1499#0/1  
aaaaa\_`¥Yaaaa\_\_a^]`\_R\_`^`a`a\_Z^\_]Y¥]`^\_V  
@HWI-EAS443:3:19:1640:184#0/1  
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+HWI-EAS443:3:19:1640:184#0/1  
a\_^aa\_`aba`a`aa\_a\_¥\_\_\_\_]NYW\_W`¥WV\_UQZWY¥B

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+HWI-EAS443:3:19:169:473#0/1  
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+HWI-EAS443:3:19:1711:1250#0/1  
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@HWI-EAS443:3:19:1717:1106#0/1  
GGGGGCTATATGAAGCAATCGAGGAGTGCCTGATTAATGA  
+HWI-EAS443:3:19:1717:1106#0/1  
aabbaabababbaaa\_aaa`^ba\_`\_a[P`aUaa\_V\_\_Y  
@HWI-EAS443:3:19:1780:1424#0/1  
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+HWI-EAS443:3:19:1780:1424#0/1  
ab\_aabbab`baba\_`ab`ba^\_a\_aa`Q¥aQ`a\_aa\_`  
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+HWI-EAS443:3:19:230:1075#0/1  
¥R^X`aaRL]`a`Y`a[\_^^\_VYWY^NN`RUT`^\_\_]WL^  
@HWI-EAS443:3:19:23:770#0/1  
GAAAATCGAAACTAACAAGTTTGCTGCAATATGCACACAT  
+HWI-EAS443:3:19:23:770#0/1  
abbbba^a`ba`aaa`\_a`a`^\_aaaa`aa\_`````\_`  
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+HWI-EAS443:3:19:263:130#0/1  
abab`aaaa`\_`\_`\_`^`\_`X```^\_]`^\_Y^^^]`^Y]`^  
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AATTCCTTGGTCATGTCTTTCTCTTTGACAGAAGACTCGG  
+HWI-EAS443:3:19:286:220#0/1  
Y]\_`]W]Zb\_MZ\_bb^b\_`bb\_\_b¥ba``abaa]abaab\_  
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CAATAATTGTAGAATCTGGTGACCCGAATGCACTATTGAA  
+HWI-EAS443:3:19:310:1160#0/1  
a¥[^aZaaa`\_\_\_aaaaa]aaaaa```a[ ]aa\_`a`[`  
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CGGCCTTGCTCAATGCATCCTGTGCAGCCATGGATGACTT  
+HWI-EAS443:3:19:319:1602#0/1  
a¥¥\_a\_abaababa]bb]aaa^RZaa^ba````]Y`^`^  
@HWI-EAS443:3:19:352:147#0/1  
GAGAGGAGATGGCCACCAAAGCGGACTACACCCTTGACGA  
+HWI-EAS443:3:19:352:147#0/1  
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+HWI-EAS443:3:19:361:1706#0/1  
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+HWI-EAS443:3:19:393:1532#0/1  
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@HWI-EAS443:3:19:401:1566#0/1  
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+HWI-EAS443:3:19:401:1566#0/1  
`\_]\_Z`ab`aaZT`Za`]N¥a\_¥XY¥Z]^¥U¥^0\_^]]X  
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+HWI-EAS443:3:19:40:675#0/1  
ab\_a`aabaaaaZa`\_T\_]¥^a\_W^^a\_ZQ^a\_\_^^Y^`  
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AAATTTAGGCTTCTCTACCCCTGTTGTGTTACATATACTG  
+HWI-EAS443:3:19:422:520#0/1  
`bba[¥bbabbabX]ab`aaZ^a0\_\_\_\_\_]S``\_aa`aY[\_  
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GAACAGTATATGTAACACAACAGGGGTAGAGAAGCCTAAA  
+HWI-EAS443:3:19:436:513#0/1  
aaaaaaX]\_^R¥]a`a\_aP[\_`\_a\_\_W^\_]`UGY\_Z]^\_  
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TTTTCGGCTGAATCGAGAAAATTGCTTCTCATTGTTTCAGG  
+HWI-EAS443:3:19:475:501#0/1  
`b`]]Z^[Yba`\_]a\_]U\_aaaaa`¥]`\_`^[X]R\_Z[``  
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CACCCCTTGACGAAGAGAGCAGGGCAAGAATCAAACTAGG  
+HWI-EAS443:3:19:510:1533#0/1  
aba`\_a[aaa^```\_^]\_`^][¥a]a`a`\_^a\_^\_]Za]X  
@HWI-EAS443:3:19:597:1425#0/1  
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+HWI-EAS443:3:19:597:1425#0/1  
aaaaabbbbaaaa```\_a^aXa`a`a\_\_`a^`\_```\_X[GP  
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+HWI-EAS443:3:19:625:230#0/1  
a`\_aaaa\_aba`W]^`a`¥a`X\_\_\_\_`\_`\_`^\_\_\_\_][a^  
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CACATCTTTTCATTCACTGGAGAGGAGATGGCCACCAAAG  
+HWI-EAS443:3:19:69:575#0/1  
\_\_\_\_Yb\_T^bbabba\_[a`ab^U\_V]]XL]Z`^```^`a`  
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+HWI-EAS443:3:19:742:89#0/1  
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+HWI-EAS443:3:19:769:229#0/1  
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+HWI-EAS443:3:19:827:1598#0/1  
aYL¥[YXa\_`W[ZY^W¥U][SXS[[Y`ZSR^`^\_\_^a\_[W  
@HWI-EAS443:3:19:831:1300#0/1  
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+HWI-EAS443:3:19:831:1300#0/1  
aaa`a`aaaaa`[^¥aa¥`\_\_ZY[\_\_\_`]U\_\_`P``^^S^  
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+HWI-EAS443:3:19:848:883#0/1  
a\_aa¥¥\_`aUXa^]]V[\_^`\_[YRX[Z[^VSQaX¥^\_UUU  
@HWI-EAS443:3:19:855:1271#0/1  
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+HWI-EAS443:3:19:855:1271#0/1  
aaba¥ba`aa¥a]baa`aaa`aaa\_]\_\_\_\_[TW\_^\_^]\_^\_]  
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+HWI-EAS443:3:19:945:471#0/1  
aaaa`aa\_a`a\_a`\_GW\_a`\_\_`a\_\_U`X]S¥\_\_0^\_\_\_\_  
@HWI-EAS443:3:19:971:1212#0/1  
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+HWI-EAS443:3:19:971:1212#0/1  
a`[a`[a^]`aa`aX[[\_\_\_\_S¥a¥`[a\_`^U^``¥VX\_\_  
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GACCCGAATGCACTATTGAAGCACCGATTTGAGATAATTG  
+HWI-EAS443:3:19:988:213#0/1  
\_¥```\_Y¥]]J`¥aX`¥`^]Y[S]]^a`\_]Q\_] [¥Z]¥\_  
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ab¥a^a`aa\_^aaaa0a[¥Xaa[\_a^`^aSaaa]a\_^^B  
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+HWI-EAS443:3:1:1563:1150#0/1  
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+HWI-EAS443:3:1:162:1242#0/1  
¥a¥`a¥b)`abbaPY]ab`Z^[Y^\_`ba`^`^aa^a`]BB  
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ab`bbbbbbba`bbbbbb`bbbab¥ababaa\_aaaa\_aab  
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+HWI-EAS443:3:1:338:1503#0/1  
`bbG^baYZRV^a^aY]^YZ]`Y^`O\_0¥\_\_^^\_AZ\_BBB



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aaa\_a`a`a``\_[¥Y^\_\_¥¥\_¥\_\_¥]W`WY¥\_Z^¥¥TBB  
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GTGAATCAATAATTGTAGAATCTGGTGACCCGAATGCACT  
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GGGAGTGTACATAAATACGGCCTTGCTCAATGCATCCTGT  
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a`\_^`V\_¥\_Q\_`¥`\_\_^W¥¥TT¥T¥T¥Y\_¥Y¥U^¥USBBB  
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CCTGTTGTGTTACATATACTGTTCACTACTGTCCAGGCCA  
+HWI-EAS443:3:1:520:563#0/1  
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AATTGACTGATTCAAGCTGGATAGAATTGATGAAATAGG  
+HWI-EAS443:3:1:584:1016#0/1  
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TTCCGATTTGTTTTCAAAGAATTCCTTGGTCATGTCTTTC  
+HWI-EAS443:3:1:704:792#0/1  
[[¥¥``babbWaaaV¥``b^b`YXY]\_aaaWab\_Zaaa\_  
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+HWI-EAS443:3:1:743:912#0/1  
]¥b`a`abba¥X`a`bba\_aba¥Z[\_ab[W`aaGa\_BB  
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AGAAGCCTAAATTTCTTCTGATTTGTATGATTACAAAGA  
+HWI-EAS443:3:1:88:1071#0/1  
aaaa\_\_^aaaaaaaa```\_a\_¥\_a`a]\_aa````\_\_`\_\_B  
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AAGAATTCCTTGGTCATGTCTTCTCTTTGACAGAAGACT  
+HWI-EAS443:3:1:925:1497#0/1  
aaa`\_bb\_abbbaaaabbaab`a\_baabab`Zaaa]^[]B  
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+HWI-EAS443:3:1:997:1285#0/1  
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+HWI-EAS443:3:20:100:437#0/1  
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AGCTTGCCGACCAAAGTCTCCACCGAACTTCTCCAGCCT

+HWI-EAS443:3:20:1010:671#0/1  
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CCAGATTCTACAATTATTGATTACCCCCGTTTCGTCGATGA  
+HWI-EAS443:3:20:1052:881#0/1  
a`ab`aabbaaaba`aaaa\_aa\_]a\_a\_a^\_[^¥¥^  
@HWI-EAS443:3:20:1069:301#0/1  
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+HWI-EAS443:3:20:1069:301#0/1  
^\_b¥W[bbaabbaa]b\_a`aaaaaa`aaXa`aaa^]`^`  
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GCCAGTAAGGTCCTGCACACTTCCCAATAGAGCCTTCCT  
+HWI-EAS443:3:20:1070:1948#0/1  
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+HWI-EAS443:3:20:1078:1270#0/1  
ZUN]`QR\_RW]\_`ZQX\_a¥S^`aa`aVa`]O¥VT\_WTYQM  
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TTTGGACCCAGCTTGCTAGAGATCTGGGCTCTGGCTCATC  
+HWI-EAS443:3:20:1183:1010#0/1  
^a`\_`\_`baaab\_baaa\_a\_`a`^¥`aaa\_aaa`^a\_]a` [  
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GGGATTTATGCCTTTCTCATGTGGTTTGACTATGTTAGGC  
+HWI-EAS443:3:20:1367:601#0/1  
aaaaaaaaaaaa`aaa`a`aa]aa\_aaa`]aaa]`\_`VO  
@HWI-EAS443:3:20:1394:1375#0/1  
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+HWI-EAS443:3:20:1394:1375#0/1  
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GAGGGGGAGGGAATACCACTATATGATGCAATCAAATGCA  
+HWI-EAS443:3:20:1399:1029#0/1  
a`baa`aaa\_a]`a`^`a^a\_\_a`a\_\_`^a\_a]`^`]^Z^  
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GGGGCTATATGAAGCAATCGAGGAGTGCCTGATTAATGAT  
+HWI-EAS443:3:20:1443:624#0/1  
a\_TOVPQUSR¥Z]YLS^^Z`Y¥¥Z^U`ZTKVSYUTW^XZ  
@HWI-EAS443:3:20:1449:901#0/1  
GGGGGCTATATGAAGCAATCGAGGAGTGCCTGATTAATGA  
+HWI-EAS443:3:20:1449:901#0/1  
[a]```bbbbbbba`]abbab`b`^a]aZ^ba[```\_`ab`  
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+HWI-EAS443:3:20:1487:304#0/1  
aaaaabaaa`bab^aa¥a]`Z\_a\_`a^[\_XZ^aU[^MZYH  
@HWI-EAS443:3:20:1584:606#0/1  
GGCTGCATTGAGGGCAAGCTTCCCAAATGTCAAAGAAG  
+HWI-EAS443:3:20:1584:606#0/1  
a`\_`\_`¥a\_aW\_`aW]^aV\_a`YWV]^\_\_a^V^^]^\_\_¥V

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+HWI-EAS443:3:20:159:174#0/1  
ab^Xa`a\_a¥¥aaa\_a`\_`a]\_^PXU\_]Y\_]XX^^XU\_Y  
@HWI-EAS443:3:20:1607:1424#0/1  
GAGAAATGATACTGATGTGGTGAACCTTTGTAAGTATGGAG  
+HWI-EAS443:3:20:1607:1424#0/1  
a]TUa`YY\_]\_]\_^][ZX[\_¥Z\_^\_^]\_]\_0^]]ZUR  
@HWI-EAS443:3:20:1609:278#0/1  
TGCTCAATGCATCCTGTGCAGCCATGGATGACTTTCAGCT  
+HWI-EAS443:3:20:1609:278#0/1  
\_S`aJbabba`a¥GZaYaS[a^UXVU`S]¥\_\_^Y^N[^U[  
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+HWI-EAS443:3:20:1614:911#0/1  
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+HWI-EAS443:3:20:1622:138#0/1  
\_\_^\_¥\_`\_bababbabb`ba^^ababbaaaba`aa\_  
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AGAAGTTCGGTGGGAGACTTTGGTCGGCAAGCTTGCAT  
+HWI-EAS443:3:20:1622:1587#0/1  
aa`aa¥babW\_b^ST`^\_¥^^\_0^\_`Z^^]OYRYO^UXY  
@HWI-EAS443:3:20:1624:613#0/1  
AGCAGGTGCTAGCAGAGCTACAGGACATTGAAAATGAAGA  
+HWI-EAS443:3:20:1624:613#0/1  
a`^a\_ZX^aa\_aS¥\_Z^T]^X`^aZ`\_]\_^\_][Z]Z  
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GCCCTGCAGTGGGACACTTCTGCTGTAAAATAGTTCCTCC  
+HWI-EAS443:3:20:1683:143#0/1  
aa\_[\_a\_ababa`\_[`¥aaY`¥`a`[`bV`\_W[LFYPU  
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ATCGACGAACGGGGTGAATCAATAATTGTAGAATCTGGTG  
+HWI-EAS443:3:20:1683:1755#0/1  
`a\_a`aa^\_W`aaX`V\_YJV^\_V\_]\_X]\_¥V^X^]]OY  
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TGAAATTGGAGTAACACGGAGGAAGTCCACATATATTAC  
+HWI-EAS443:3:20:1727:855#0/1  
aaV[Wa^Y[Xa^`\_]\_]a\_]\_^]XZ^]YU][]^W^]^]YY  
@HWI-EAS443:3:20:1738:795#0/1  
TAGCCCCCAAGATCGAAGTTCCAGGTTCCAGGTTGTCC  
+HWI-EAS443:3:20:1738:795#0/1  
aba`Z\_a\_aaaa`a[`\_aa¥W^¥U^^¥^¥¥W¥^¥W^¥VWW  
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AGCCTATGTAGATGGATTGAGCCGAACGGCTGCATTGAG  
+HWI-EAS443:3:20:245:531#0/1  
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+HWI-EAS443:3:20:308:1549#0/1  
ababb`aabaabaa\_`]aabb\_[a^\_a^`]V\_``a\_\_a]Z  
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CCCAAGGACAAAGAACATGAAGAGAACAAGCCAATTGAAG  
+HWI-EAS443:3:20:314:1210#0/1  
ab^]\_a\_aa\_aaaaa`aa\_Y`aa\_`\_\_a[]`\_`\_\_\_\_\_]^`  
@HWI-EAS443:3:20:355:1129#0/1  
CAATTATTGATTACCCCGTTCGTCGATGAAATGGAAATC  
+HWI-EAS443:3:20:355:1129#0/1  
aaaaa\_aabaa[aa```aa]\_]a\_\_\_\_`¥a\_a`\_\_\_\_]\_`¥U  
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GGCTCATCACTGTCATACTGTTTAAGGTCTCCAACATCTT  
+HWI-EAS443:3:20:391:1599#0/1  
U`abaY¥bbaaaaabbabbaaabaaa\_b`ababa\_aaaa  
@HWI-EAS443:3:20:466:1053#0/1  
AGAAGTTCGGTGGGAGACTTTGGTCGGCAAGCTTGCGCAT  
+HWI-EAS443:3:20:466:1053#0/1  
ab``]GZba`X]\_``a\_a```^¥[a`a`X]`\_^\_Y^^\_  
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+HWI-EAS443:3:20:572:1613#0/1  
]`\_\_baaabbbbababVbaabba\_b]Y]bbb\_b`b`baa  
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+HWI-EAS443:3:20:61:115#0/1  
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+HWI-EAS443:3:20:629:416#0/1  
`a`\_`b`¥```aaa`\_`a`\_a]¥\_`^¥```¥Z\_W]\_¥¥WTW¥Q  
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GGGGCTATATGAAGCAATCGAGGAGTGCCTGATTAATGAT  
+HWI-EAS443:3:20:649:22#0/1  
a`aaa`Z[V\_a^¥¥WT]]`W^^Q[LYUYW^SV]ZUWWWT  
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+HWI-EAS443:3:20:685:553#0/1  
aa^a`[] [aa`\_] [ ]a`[^]\_\_`Z\_] [ ]`Z\_^M]Z  
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CAGCTTGCTAGAGATCTGGGCTCTGGCTCATCACTGTCAT  
+HWI-EAS443:3:20:717:109#0/1  
aababbbabaaaaa\_`a\_`^`\_`a¥\_\_```¥`]^`^`  
@HWI-EAS443:3:20:739:129#0/1  
GAAATGGAAATCCGAATACATGAAACAACTTCCAAATGT  
+HWI-EAS443:3:20:739:129#0/1  
^bb`a`\_\_^]`aa\_`aaa\_aa``aa¥aa\_`a\_^Y\_\_^\_^Z

@HWI-EAS443:3:20:82:249#0/1  
GAATTCCTTGGTCATGTCTTTCTCTTTGACAGAAGACTCG  
+HWI-EAS443:3:20:82:249#0/1  
aa\_`aaaa]\_`S]^\_Y]a\_\_b\_Y]a`a`]]`a``¥^\_]^X  
@HWI-EAS443:3:20:834:1620#0/1  
CATTAATCAGGCACTCCTCGATTGCTTCATATAGCCCCC  
+HWI-EAS443:3:20:834:1620#0/1  
V]bb`]bbb`a\_b]\_`\_a^`a[[a\_`TU`bb^^^]W`[^  
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CATGCCTTATTGAATTCATTTTGGACCCAGCTTGCTAGAG  
+HWI-EAS443:3:20:876:2043#0/1  
abaaaab\_\_aZa`a\_\_aa`^`[\_[a^\_a\_\_^\_\_R\_\_`\_\_`\_\_  
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+HWI-EAS443:3:20:893:587#0/1  
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AACAAAGTTTGTGCAATATGCACACATTTGGAAGTTTGTT  
+HWI-EAS443:3:20:956:585#0/1  
Y¥^YWXJ¥b\_^baYUabaa\_W]TX`abaabba[^V[``NN  
@HWI-EAS443:3:20:99:773#0/1  
CAGCAAACCTTGTAGTTTTCGATTTTCGGATCTTCCCATA  
+HWI-EAS443:3:20:99:773#0/1  
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+HWI-EAS443:3:21:1000:870#0/1  
a]b¥ZXa\_``aa¥¥`abba]\_]a`[]¥]`\_a\_^ZZ]Ya[Y  
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+HWI-EAS443:3:21:1013:912#0/1  
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+HWI-EAS443:3:21:1014:1448#0/1  
abbaaabababbba\_aaaaaaaa`\_aaaaa\_``U`a```W  
@HWI-EAS443:3:21:101:683#0/1  
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+HWI-EAS443:3:21:101:683#0/1  
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+HWI-EAS443:3:21:1027:768#0/1  
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+HWI-EAS443:3:21:1030:296#0/1  
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@HWI-EAS443:3:21:1043:424#0/1  
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+HWI-EAS443:3:21:1043:424#0/1  
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@HWI-EAS443:3:21:1067:1272#0/1  
CAAAGATGTTGGAGACCTTAAACAGTATGACAGTGATGAG  
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GGGGCATGGAAATGAGGCGCTGCCTTCTTCAGTCTCTTCA  
+HWI-EAS443:3:21:1088:1073#0/1  
a\_R`\_Za^\_S]Y`]Va[¥Va\_\_\_Z[¥^X^[PZ`ZZ\_¥Y  
@HWI-EAS443:3:21:1092:1793#0/1  
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+HWI-EAS443:3:21:1092:1793#0/1  
H[b\_¥aaVxb\_```[\_babb^ba`baa\_baba^babab\_a  
@HWI-EAS443:3:21:1179:477#0/1  
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+HWI-EAS443:3:21:1179:477#0/1  
aaaa^aaa\_`a`a]`aa\_``a\_``\_\_^`Z¥`\_\_``^\_\_Z  
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a\_]a^\_a`aa\_^\_YY\_[a[OMW\_YPZ]^U]VR\_WT\_]U  
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+HWI-EAS443:3:21:1213:1626#0/1  
UUZ]UXX[[W[```\_`\_V^]VQ¥]P[SGVWTSNX\_`ZVYYB  
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+HWI-EAS443:3:21:1263:1632#0/1  
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TGCCCACTTCAATTGGCTTGTCTCTTCATGTTCTTTGTC  
+HWI-EAS443:3:21:1263:708#0/1  
aba\_\_aaa`¥\_aaa`Y\_\_\_[Y\_0\_U`\_UUZZY`M¥``¥WS  
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+HWI-EAS443:3:21:1278:938#0/1  
abaaaaaaabbaabaaaa`a`aZa\_a\_\_`a`V`YN`Y¥¥  
@HWI-EAS443:3:21:1303:1133#0/1  
TCCGATTGCCATGTTTCCGATTTGTTTTCAAAGAATTCC  
+HWI-EAS443:3:21:1303:1133#0/1  
aaaa\_aaaa\_``a^aa^\_\_Z^a`^`^\_aaX\_a\_\_^]a`SV  
@HWI-EAS443:3:21:1324:534#0/1  
GACATTCTTTGGCTGGAAAGAGCCTAACATAGTCAAACCA  
+HWI-EAS443:3:21:1324:534#0/1  
aa[\_[a`a`\_a`aaa^a\_Y\_\_[\_^^\_[]]\_]^^`\_XU]

@HWI-EAS443:3:21:136:1143#0/1  
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+HWI-EAS443:3:21:136:1143#0/1  
aba`S)`X\_a[T`[^[]^`a¥[[^]T^a]TTS¥^^\_^U^  
@HWI-EAS443:3:21:1424:491#0/1  
CACCGATTTGAGATAATTGAAGGAAGAGACCGAATCATGG  
+HWI-EAS443:3:21:1424:491#0/1  
aa`ab`bbbb\_a`aa`abb`aaa\_^a``\_^]a\_^a[\_a`\_  
@HWI-EAS443:3:21:1454:1627#0/1  
CAGAAAAAGTAGACTTTGATGACTGCAAAGATGTTGGAGA  
+HWI-EAS443:3:21:1454:1627#0/1  
Y\_^XM¥\_\_`Tb^VOQ]W`^aX\_¥aa`[]^\_a\_NP``[``  
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TCGGGTCAGTGAGTGAGAACTCCATACTTACAAAGTTCAC  
+HWI-EAS443:3:21:1482:1744#0/1  
\_a¥^[U^[\_W¥¥\_Qa`¥¥^]Z^aa][`a`0`a`\_`]Y]Z  
@HWI-EAS443:3:21:1483:277#0/1  
AGCAGGTGCTAGCAGAGCTACAGGACATTGAAAATGAAGA  
+HWI-EAS443:3:21:1483:277#0/1  
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+HWI-EAS443:3:21:1513:819#0/1  
a^\_aa`^`aaaa`^aa[]```U¥V]U\_UUZSTZS¥BBBB  
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+HWI-EAS443:3:21:1517:1399#0/1  
aaa]a\_baa`aaa`aSZ\_a`aa]\_\_\_\_`]\_\_aaa\_]a[\_\_\_\_  
@HWI-EAS443:3:21:1539:1783#0/1  
AAGAATTCCTTGGTCATGTCTTTCTCTTTGACAGAAGACT  
+HWI-EAS443:3:21:1539:1783#0/1  
[XaYZ`XZ`]aa`\_`K`aa^`\_`P[^a`]a\_^aa`\_]\_VP  
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+HWI-EAS443:3:21:1562:586#0/1  
^T]Z`aaJ^^`X`¥abaa\_\_aX]\_¥`aaUX\_Y[WaZ^SY`  
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GGGGGCTATATGAAGCAATCGAGGAGTGCCTGATTAATGA  
+HWI-EAS443:3:21:1658:619#0/1  
aa`Y`\_`\_aaaa\_\_`]a`\_Ua\_a`U`VTVU]`X]^XXXYY  
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GGGCATGGAATGAGGCGCTGCCTTCTTCAGTCTCTTCAG  
+HWI-EAS443:3:21:166:1027#0/1  
abaabab`\_b`aaa\_\_a`aaaa]¥`[a\_\_^a\_\_a``a]`Y  
@HWI-EAS443:3:21:1733:1583#0/1  
GAAAGGCATAAATCCCAATTACCTCATGGCTTGAAGCAG  
+HWI-EAS443:3:21:1733:1583#0/1  
a`aa]ba\_aaa`a[^\_a\_a``Wa]G`TQ[¥a\_S¥NXQTSB  
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ATTTTGGACCCAGCTTGCTAGAGATCTGGGCTCTGGCTCA

+HWI-EAS443:3:21:1774:1355#0/1  
]b`b`T[ `aVa`R[a^^\_aaaa`X\_\_Z[T[N\_\_\_a[Q`¥U  
@HWI-EAS443:3:21:201:568#0/1  
ATCTTGATCTTGGAGGTTCCATTGGTTCTCACATATAGGA  
+HWI-EAS443:3:21:201:568#0/1  
aaaaab`abaa]aaa\_`aa\_`¥¥VN` ` `\_\_]`QX¥GZ¥  
@HWI-EAS443:3:21:205:749#0/1  
CGACGAACGGGGTGAATCAATAATTGTAGAATCTGGTGAC  
+HWI-EAS443:3:21:205:749#0/1  
abb` `Q]^¥aabYaY\_]\_a`a`Z` `aV¥` [a\_^^aWV^\_\_  
@HWI-EAS443:3:21:21:1173#0/1  
AATTGAAGGAAGAGACCGAATCATGGCCTGGACAGTGGTG  
+HWI-EAS443:3:21:21:1173#0/1  
^`abba^`aa` `aaaaaba`aaaa`a^a`a`a` `^a` [¥  
@HWI-EAS443:3:21:222:1633#0/1  
CCTCGATTGCTTCATATAGCCCCCAAGATCGAAGGTTC  
+HWI-EAS443:3:21:222:1633#0/1  
` `^\_a[¥¥¥Z^Z]XZ^a^Z¥VZa\_SNZXWSYSTQNS¥NU  
@HWI-EAS443:3:21:223:1243#0/1  
GGCTGAATCGAGAAAATTGCTTCTCATTGTTCCAGGCACTT  
+HWI-EAS443:3:21:223:1243#0/1  
`Sa`baaSa\_]\_]¥]^\_a\_]\_0\_^^XY][ ]`X^\_[G^  
@HWI-EAS443:3:21:237:1862#0/1  
CATGATTCGGTCTCTTCCTTCAATTATCTCAAATCGGTGC  
+HWI-EAS443:3:21:237:1862#0/1  
Y`PYY¥ba` `]Y`\_0I\_ba]a\_Z^a` `¥U\_\_^Z]^YVW^]  
@HWI-EAS443:3:21:25:463#0/1  
GGGGCATGGAATGAGGCGCTGCCTTCTTCAGTCTCTTCA  
+HWI-EAS443:3:21:25:463#0/1  
a\_a]a`\_a`^\_` `\_[^` `^` `\_\_¥\_V`¥¥¥\_W¥\_^¥¥W¥  
@HWI-EAS443:3:21:274:327#0/1  
TAATCAGGCACTCCTCGATTGCTTCATATAGCCCCCAAG  
+HWI-EAS443:3:21:274:327#0/1  
aabaaaaa`aaa`a`]¥` ` `^` `\_\_`\_a]\_` `\_\_YWV\_  
@HWI-EAS443:3:21:329:184#0/1  
ACCCGAGTCACGAGGGGGAGGGAATACCACTATATGATGC  
+HWI-EAS443:3:21:329:184#0/1  
abaaaa`ba`\_Uaaaa`\_aaaX`^\_] ^\_¥] `]]^\_^]ZW  
@HWI-EAS443:3:21:338:1706#0/1  
ATGCATCCTGTGCAGCCATGGATGACTTTTCAGCTGATCCC  
+HWI-EAS443:3:21:338:1706#0/1  
a¥^abaa¥^[UMY\_\_\_S\_W][ ` `\_\_[ `^\_¥\_Y]X^[  
@HWI-EAS443:3:21:398:225#0/1  
CATGGCCTGGACAGTGGTGAACAGTATATGTAACACAACA  
+HWI-EAS443:3:21:398:225#0/1  
[]\_bK\_abb[[bV[bbaHaa¥Z[bQaa\_aaH¥]aaa\_]GH  
@HWI-EAS443:3:21:399:1778#0/1  
AAAGAGCCTAACATAGTCAAACCACATGAGAAAGGCATAA  
+HWI-EAS443:3:21:399:1778#0/1  
\_b¥L[W^ZYLabT^[[T\_^[a` [P`\_]\_\_W¥` `^\_SX`aa



@HWI-EAS443:3:21:415:1141#0/1  
CGTCTCCACAACCTTGAGGGGTTTTCGGCTGAATCGAGAAA  
+HWI-EAS443:3:21:415:1141#0/1  
abab`abbbbaaba]a]\_`\_aaa`\_a\_aa`a\_\_a\_\_^aa  
@HWI-EAS443:3:21:417:210#0/1  
CCTTTCTCATGTGGTTTGACTATGTTAGGCTCTTTCCAGC  
+HWI-EAS443:3:21:417:210#0/1  
abbbbaabaab\_ba\_\_ab`\_aa`a`\_`\_] [ ]\_\_a\_Y^\_^]  
@HWI-EAS443:3:21:426:255#0/1  
GGAAGAGACCGAATCATGGCCTGGACAGTGGTGAACAGTA  
+HWI-EAS443:3:21:426:255#0/1  
aa``\_aba\_]``aaaaaa]a\_aaa\_[aa[a\_\_U\_aV`  
@HWI-EAS443:3:21:431:347#0/1  
AAGAATTCCTTGGTCATGTCTTTCTTTGACAGAAGACT  
+HWI-EAS443:3:21:431:347#0/1  
\_ [ ``` [\_X`aaaa¥[ [ ` ] \_\_\_a^VVR`T¥a^X\_aX\_X\_Y]  
@HWI-EAS443:3:21:470:1373#0/1  
TTGGGGGGCTATATGAAGCAATCGAGGAGTGCCTGATTAA  
+HWI-EAS443:3:21:470:1373#0/1  
ZWUTbaaa`\_`^¥¥`]Q]T]a`\_^H[aVM^[\_a\_\_\_^Y¥  
@HWI-EAS443:3:21:492:322#0/1  
CCACTCCCCTGGGTGACTCTCCGATTGGCCATGTTTCCGA  
+HWI-EAS443:3:21:492:322#0/1  
`]]]¥\_] ]NW\_aT[VN¥[\_Z[U[¥T^XFXUUXRKPQLSM  
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CAAAGAGAAAAGACATGACCAAGGAATTCCTTGAAAACAAA  
+HWI-EAS443:3:21:540:32#0/1  
aaaab`b`aaaaa`\_aaa```a`\_`\_`\_] ^\_a\_\_a\_^\_\_  
@HWI-EAS443:3:21:542:580#0/1  
GGGGCATGGAAATGAGGCGCTGCCTTCTTCAGTCTCTTCA  
+HWI-EAS443:3:21:542:580#0/1  
ab^Z\_`aabXaaaaa\_] ^\_aa`\_`aaa\_aaaSWZ\_\_a\_] ]  
@HWI-EAS443:3:21:569:461#0/1  
CTTTGGTCGGCAAGCTTGCGCATAGTTCCTGTAATCTCAA  
+HWI-EAS443:3:21:569:461#0/1  
abbbbbb`a\_\_¥\_^ [¥aaa] [ ```\_`^ [ ``^aa^^] aT^\_\_`  
@HWI-EAS443:3:21:705:1766#0/1  
CAAGAATCAAAACTAGGCTTTTTCACTATAAGACAAGAAAT  
+HWI-EAS443:3:21:705:1766#0/1  
a`a`\_`\_a`^\_a¥Y\_\_Z\_] ^\_^^] ] ^\_ [ ] XZZ\_Z] ZZZW  
@HWI-EAS443:3:21:711:833#0/1  
TGTGAATTGACTGATTCAAGCTGGATAGAACTTGATGAAA  
+HWI-EAS443:3:21:711:833#0/1  
aaabbbbb`\_abbabaa`a`aaaaaa`^`\_aaa\_\_a\_\_`  
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CCCTGTTGTGTACATATACTGTTCACTGTCCAGGCC  
+HWI-EAS443:3:21:736:682#0/1  
aa`¥`YY\_¥] ^`\_`\_`\_`\_] Z^V\_X] \_\_^WT] W\_\_UT^  
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CATGTTTCCGATTTGTTTTCAAAGAATTCCTTGGTCATGT

+HWI-EAS443:3:21:749:1462#0/1  
aaaa¥a\_\_baaaaa]aaaa`[\`\_a^^^a\_\_\_[[\_]`¥  
@HWI-EAS443:3:21:753:192#0/1  
GCGCATAGTTCCTGTAATCTCAAATTTTTCTTCAATTGTC  
+HWI-EAS443:3:21:753:192#0/1  
`abbbba\_bbabb\_bababbb\_\_bbbb\_bbabbbab`a  
@HWI-EAS443:3:21:765:899#0/1  
TAATCAGGCACTCCTCGATTGCTTCATATAGCCCCCAAG  
+HWI-EAS443:3:21:765:899#0/1  
`aa`aab]aZaaa\_a`a`^`a^^a`\_\_a\_[\_\_[\_X]  
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GGTGAACCTTTGTAAGTATGGAGTTCTCACTCACTGACCCG  
+HWI-EAS443:3:21:773:855#0/1  
a`L¥\_]a`\_`W`¥RUVaa¥`\_`\_\_\_\_\_]\_Z\_\_^`\_¥[W^  
@HWI-EAS443:3:21:787:631#0/1  
CGGCTGCATTGAGGGCAAGCTTTCCCAAATGTCAAAGAA  
+HWI-EAS443:3:21:787:631#0/1  
a]V`\_aaa\_^X^`\_b^]X¥Z[a^Z^]`^a`Y]`a]`^\_a  
@HWI-EAS443:3:21:794:1214#0/1  
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+HWI-EAS443:3:21:794:1214#0/1  
aa^aa`aaaaa`[\`aa`^`a^^aa\_\_a^U`\_a\_\_`\_a\_\_  
@HWI-EAS443:3:21:796:477#0/1  
AAGAGACCGAATCATGGCCTGGACAGTGGTGAACAGTATA  
+HWI-EAS443:3:21:796:477#0/1  
aba`a`\_`a`\_\_`^\_Z]^\_[\_]U[\_X\_X]R^\_UU^]  
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CGGCTGAATCGAGAAAATTGCTTCTCATTGTTCAAGCACT  
+HWI-EAS443:3:21:815:1228#0/1  
aa`baabb`aa`^^^`\_a`\_`^^^`\_Z^]`^\_\_^Y]  
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GCTTGAAGCAGGTGCTAGCAGAGCTACAGGACATTGAAA  
+HWI-EAS443:3:21:835:1941#0/1  
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@HWI-EAS443:3:21:88:1380#0/1  
ATAAATACGGCCTTGCTCAATGCATCCTGTGCAGCCATGG  
+HWI-EAS443:3:21:88:1380#0/1  
a`aaaaa]T]aa\_a`\_a^¥^`aa`\_`\_YV^Z\_ZW`Y]^`^  
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ACGGGGTGAATCAATAATTGTAGAATCTGGTGACCCGAAT  
+HWI-EAS443:3:21:893:638#0/1  
aaZ\_abX\_]a^]`\_`aab\_aaY[\_`\_TTa`TZ`ZSZ`  
@HWI-EAS443:3:21:947:1722#0/1  
GGGGCATGGAATGAGGCGCTGCCTTCTTCACTCTTCA  
+HWI-EAS443:3:21:947:1722#0/1  
\_]Z`aa`\_aaaaa`][a`a`\_`\_¥[a¥\_`[a^\_¥`\_`\_`\_¥\_  
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GTATTTTTCCCATTTGTGTGGCTCCAGTCTCGGGTCAGTG  
+HWI-EAS443:3:21:997:131#0/1  
a\_J]a¥`\_`\_¥^¥\_\_^YNZQYZ¥[WBBBBBBBBBBBBBBB

@HWI-EAS443:3:22:1025:493#0/1  
CAAGAATCAAACTAGGCTTTTCACTATAAGACAAGAAAT  
+HWI-EAS443:3:22:1025:493#0/1  
\_\_`a¥`U`b`a`SS\_aa\_bbbabaabbb]``\_¥b\_Y¥```  
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CTCGGTGAAAATATGGCACCAGAAAAAGTAGACTTTGATG  
+HWI-EAS443:3:22:1065:377#0/1  
a`\_aa\_a\_aaaaaaaaaa\_\_aa\_aa`^`V`aa]]`\_a`\_a  
@HWI-EAS443:3:22:1079:566#0/1  
ACCGGTTCTCTTTGTAATCATACAAATCAGGAAGAAATTT  
+HWI-EAS443:3:22:1079:566#0/1  
a\_`aa^aaaaa`\_a[\_`a¥`^`\_a^`^Y\_a\_]\_[\_[]\_`^  
@HWI-EAS443:3:22:115:1717#0/1  
ATACAAATCAGGAAGAAATTTAGGCTTCTCTACCCCTGTT  
+HWI-EAS443:3:22:115:1717#0/1  
aaaabaa`aa\_]`^`\_a\_\_^\_a^]a`^`^`^`^`a\_]X]  
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CTTGCGCATAGTTCCTGTAATCTCAAATTTTTCTTCAATT  
+HWI-EAS443:3:22:116:549#0/1  
a\_`aaa\_aa¥Y[[Z`\_\_¥TW`a`^`V\_`^]`\_`[\_]\_]\_\_  
@HWI-EAS443:3:22:1172:1853#0/1  
GGTGAATCAATAATTGTAGAATCTGGTGACCCGAATGCAC  
+HWI-EAS443:3:22:1172:1853#0/1  
aaZ```a`\_`\_`WS\_a\_WWa`a`[]`^Xa`\_`Z`¥Y]`\_`^  
@HWI-EAS443:3:22:1185:110#0/1  
GAAAGGCATAAATCCCAATTACCTCATGGCTTGAAGCAG  
+HWI-EAS443:3:22:1185:110#0/1  
aa`\_\_^\_aa[\_\_\_aQTZ\_¥G`\_[WYWY¥aWW]WQ[NUYQTB  
@HWI-EAS443:3:22:1217:427#0/1  
CTTGGTCATGTCTTTCTCTTTGACAGAAGACTCGGCCTCA  
+HWI-EAS443:3:22:1217:427#0/1  
ab\_bba`baaaaabbbabbaab\_abbbaaa^b[bb]\_a\_b  
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TGTCCTTGGGATCTTCTCTTCAATTTTCAATGTCCTGTAGC  
+HWI-EAS443:3:22:121:1134#0/1  
aaP`V\_aa`[\_`\_aaaabaaa\_a`\_`\_aaa\_]aa`\_`^`YZ  
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GAAATAGGAGACATGCTCTTGAGGACTGCGATAGGCCAAG  
+HWI-EAS443:3:22:1248:1015#0/1  
aa`]aaaaa`¥^`a`^`a`aa^Z^^Va^\_\_^[[VZ[^  
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CAGTATTTTTCCATTTGTGTGGCTCCAGTCTCGGGTCAG  
+HWI-EAS443:3:22:1283:1713#0/1  
aa]Q]aaaaaaa\_\_aaaa]a^aR]a\_^[^W[WU[\_]LY]V  
@HWI-EAS443:3:22:133:1696#0/1  
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a`bbbbabaaaaV^baa`abababbbUVZ\_\_[aa\_T\_aaa  
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CAGCTTGCTAGAGATCTGGGCTCTGGCTCATCACTGTCAT

+HWI-EAS443:3:22:1367:903#0/1  
\_ab\_bbaabaaaaa\_ab`aXa]^a`\_a^aa[a\_`a^`\_`\_`  
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AGGAGAAGATGTTGCCCCGATTGAACATATCGCAAGCATG  
+HWI-EAS443:3:22:1385:1249#0/1  
^bbWba` `[]baaaaaJ[]NWaPU`a` `\_\_\_\_XW\_dW[Ua  
@HWI-EAS443:3:22:138:1965#0/1  
GGGGTTTTTCGGCTGAATCGAGAAAATTGCTTCTCATTGTT  
+HWI-EAS443:3:22:138:1965#0/1  
aaa^]bbaba\_`aabbab`bab^aaaa]aa\_aaa`\_aVQV  
@HWI-EAS443:3:22:141:289#0/1  
ATTCCTCCCCCTCGTGAATCGGGTCTTCAATACTTAATT  
+HWI-EAS443:3:22:141:289#0/1  
a\_\_abbaab`aa`aa\_]Y¥aa\_Z^T^`\_`Z\_^VW¥`\_G^\_  
@HWI-EAS443:3:22:1449:205#0/1  
GAGAAGATCCCAAGGACAAAGAACATGAAGAGAACAAGCC  
+HWI-EAS443:3:22:1449:205#0/1  
a^]^aa^RPT¥P^\_¥Y[U\_\_[^RPY\_\_^^[^a\_WSZ]`LH  
@HWI-EAS443:3:22:1475:484#0/1  
TACATAAATACGGCCTTGCTCAATGCATCCTGTGCAGCCA  
+HWI-EAS443:3:22:1475:484#0/1  
aa\_` `]^`baa`\_\_\_\_Y\_^a\_\_]\_]ZWZ\_\_ST\_`WYV]`¥ZZ  
@HWI-EAS443:3:22:1568:1452#0/1  
TTTCAAAGAATTCTTGTCATGTCTTTCTCTTTGACAGA  
+HWI-EAS443:3:22:1568:1452#0/1  
ab^\_`a` ` `Va` ` `baab\_\_\_\_a^^\_aaa0^aaa`¥YQ\_\_  
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GTTACATATACTGTTCCACTGTCCAGGCCATGATTCGG  
+HWI-EAS443:3:22:1602:528#0/1  
a\_^U^aa\_a`¥`a[\_\_\_\_^W¥Va^W¥Z][UUUV]Z\_Z]¥YZR  
@HWI-EAS443:3:22:1609:28#0/1  
GCAGGTGCTAGCAGAGCTACAGGACATTGAAAATGAAGAG  
+HWI-EAS443:3:22:1609:28#0/1  
aZ\_aaM[PaX]YXa]\_QXWNVa[[VS]\_\_YZ]XYUZ]\_^  
@HWI-EAS443:3:22:1613:1740#0/1  
CCTCATGCTTGGGATATGTTCAATCGGGGCAACATCTTCT  
+HWI-EAS443:3:22:1613:1740#0/1  
`]YH\_b\_H^a` `X^¥b` ` `]U`^W` `b`^LT[WW` [Wa]Z  
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GAAAGGCATAAATCCCAATTACCTCATGGCTTGAAGCAG  
+HWI-EAS443:3:22:1615:1885#0/1  
¥¥¥U^a\_b`\_`bbb¥WVbbbb`aa`b])a` `\_NSOZX[BB  
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CGATTGCCATGTTTCCGATTTGTTTTCAAAGAATTCCTT  
+HWI-EAS443:3:22:1670:1498#0/1  
`^M^b`Za\_T^^^bb[X¥S¥`YZaab\_¥[aaba`ZaX^aa  
@HWI-EAS443:3:22:183:1115#0/1  
GGCATGGAATGAGGCGCTGCCTTCTTCAGTCTTTCAGC  
+HWI-EAS443:3:22:183:1115#0/1  
¥`baa\_`aaabab`aa]bb`ab`aaa\_aaa`aabaaaa\_a



+HWI-EAS443:3:22:519:1241#0/1  
aaa^T¥`YbaZa\_baXaaaa`\_a`\_\_\_X\_`aa\_`\_\_[^\_  
@HWI-EAS443:3:22:525:124#0/1  
AGTGTACATAAATACGGCCTTGCTCAATGCATCCTGTGCA  
+HWI-EAS443:3:22:525:124#0/1  
\_[MZaba¥]WK`bb¥\_¥`Y¥QX^VUVYV^YQPJVJQ¥FZ^  
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CTCCTCGATTGCTTCATATAGCCCCCAAGATCGAAGGTT  
+HWI-EAS443:3:22:552:188#0/1  
aa¥aSY]UXUaZ`ZRS¥Y[YVZY\_SaZ`^S¥¥UQUBBBBB  
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GGGATCTTCTTTCATTTTCAATGTCCTGTAGCTCTGCTA  
+HWI-EAS443:3:22:609:1730#0/1  
`b`ababbbbbbbbbbbbbbbba\_bbb``baa\_b`aa`a  
@HWI-EAS443:3:22:628:1057#0/1  
CGAGTCACGAGGGGAGGAATACCACTATATGATGCAAT  
+HWI-EAS443:3:22:628:1057#0/1  
abbb`ababa\_`aaa]bab`]`a\_abaaaa\_\_\_`a`a]\_  
@HWI-EAS443:3:22:636:424#0/1  
CTGGCTCATCACTGTCATACTGTTTAAGGTCTCCAACATC  
+HWI-EAS443:3:22:636:424#0/1  
abbababbbabab`aaaa`ab\_aaaaa]`a\_aaa`aa^  
@HWI-EAS443:3:22:688:793#0/1  
CTTGTCTTATAGTGAAAAGCCTAGTTTTGATTCTTGCCCT  
+HWI-EAS443:3:22:688:793#0/1  
aa`\_R]a\_\_SYaW^`\_a`a¥\_]`[\_V^]`\_]`^ZSL\_^X  
@HWI-EAS443:3:22:757:203#0/1  
GCCATGTTTCCGATTTGTTTTCAAAGAATTCCTTGTCAT  
+HWI-EAS443:3:22:757:203#0/1  
aaa`aaXaaaaa`\_\_`S`[YY`aa]a^\_\_`^]\_a\_Y^\_^  
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GAATCAATAATTGTAGAATCTGGTGACCCGAATGCACTAT  
+HWI-EAS443:3:22:757:345#0/1  
T[ZUZ¥`¥`Y`a[\_\_\_baababb\_`^aa\_aVbabaSa\_`a\_  
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+HWI-EAS443:3:22:770:924#0/1  
^bbabbb]^b`babbb^babbaabaaba\_bba`^ab¥^`a  
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ATTGCAGCAAACCTGTTAGTTTCGATTTTCGGATCTTCCC  
+HWI-EAS443:3:22:795:1345#0/1  
a``\_aa\_ab\_`````^^`\_[\_\_]\_VW]¥^Y]NLO[^YY[W  
@HWI-EAS443:3:22:799:95#0/1  
TCATTATGTATTGACTAGCCCTGCAGTGGGACACTTCTGC  
+HWI-EAS443:3:22:799:95#0/1  
aZX\_aS[a^aaa`\_P\_YX^^¥`\_`\_^\_Ga]\_XZ^VXV^^ZV  
@HWI-EAS443:3:22:824:1932#0/1  
GGGGAGTGGAGGAAGGCTCTATTGGGAAAGTGTGCAGGAC  
+HWI-EAS443:3:22:824:1932#0/1  
aaaaabZb^a`a`aa`aaa`a`a^a^\_``^QKLX^^\_\_^¥

@HWI-EAS443:3:22:882:1688#0/1  
GGGGCATGGAAATGAGGCGCTGCCTTCTTCAGTCTCTTCA  
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a\_]`[\`¥^]baSab`VaabW\_¥a^`¥¥\_¥b]VX^a[^\_]  
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a\_aaa¥`a\_``]X`\_\_\_aa\_^`X[^\_^\_^\_^]\_^Z^ZWU  
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+HWI-EAS443:3:23:1371:1792#0/1  
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+HWI-EAS443:3:23:310:1148#0/1  
^^aa^¥W]``[``^`a`Yba^R¥SV^aaYa`\_\_aaa^`\_]  
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aa` `\_aba\_a` `a`^\_a^`a]`\_Y\_Z^¥¥a¥S\_^` ¥¥V  
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+HWI-EAS443:3:24:1035:237#0/1  
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`¥[\_a\_ba\_a\_¥\_\_YVZaXY\_UY¥¥UH¥^]¥[QYFMGOLD  
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+HWI-EAS443:3:24:1117:1067#0/1  
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+HWI-EAS443:3:24:1620:519#0/1  
aa\_X¥^V]`U`\_^[^Z\_V[\_^V¥[XSWS][^X`][U¥  
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+HWI-EAS443:3:24:262:917#0/1  
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+HWI-EAS443:3:24:384:2027#0/1  
aaa`]^\_baa\_`a`\_abaaX`aaa\_\_XXXa\_`aaX\_]``]  
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a\_\_\_a^P\_a\_[M``[^HUVa`W\_Ta\_^NU\_\_^TZ\_QZ]¥¥  
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I\_WT\_`a\_Y`a\_\_`\_Z\_S^`b`bbb`babbaX`bbbb`^¥  
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\_`aabaX]]^Y^aaZY[`baaaa\_P\_`\_]N\_\_¥aUY][ZZ  
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+HWI-EAS443:3:25:410:72#0/1  
¥\_V`Za\_[UHZZa\_Z\_H\_\_ZS^[V¥YP[Za^PT[PJ]Y]^  
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a^^b`¥X^^[^][X`\_\_¥\_¥Za`aWUYYZX`^XXW`\_]\_  
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\_]aW\_YXa^¥^`[¥aYR\_\_[^aaa\_aa[]`)][]`Y\_^\_\_\_\_  
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a\_\_b¥b\_`\_`a]\_\_a^V^\_]¥\_\_\_UZU\_¥S\_¥¥YYQYWQZ  
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+HWI-EAS443:3:26:210:176#0/1  
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^^a`[^I^bbbbbbbbbb\_b^Sbbbb\_baa`aaa[\_a`ab  
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ab\_] [b`a\_aa` ``\_\_a\_a\_] `a\_\_` \_` ``^\_^\_a^` ^  
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+HWI-EAS443:3:26:364:1305#0/1  
`a] a\_a` aaaa] `a` `a` `a` ^` \_\_` X` `` `` `^` \_` \_` []  
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ACCGTTTCATTGAAATTGGAGTAACACGGAGGGAAGTCCA  
+HWI-EAS443:3:26:399:950#0/1  
Z\_\_a` a\_] \_Vaaa^\_W] `SVNa^aab` `` `] aYaaT [TZ  
@HWI-EAS443:3:26:411:292#0/1  
CGTCTCCACAATTGAGGGTTTTCGGCTGAATCGAGAAA  
+HWI-EAS443:3:26:411:292#0/1  
aNbbab\_b] ` \_N\_] ba\_b [PaaaZUXZX` aaa` a\_aaaU  
@HWI-EAS443:3:26:487:765#0/1  
CACTGTCATACTGTTAAGGTCTCCAACATCTTTGCAGTC  
+HWI-EAS443:3:26:487:765#0/1  
abaZ [Ya] Vb\_\_U^` `U\_UZ\_aa` X`] `` ` ]` \_a\_] OW  
@HWI-EAS443:3:26:495:696#0/1  
CTTGATGAAATAGGAGAAGATGTTGCCCGATTGAACATA  
+HWI-EAS443:3:26:495:696#0/1  
abbba` ba`] a[] ` [aaa` a\_\_a` aa [Y` ^` \_Zab^` ^`  
@HWI-EAS443:3:26:532:2012#0/1  
GAGATAATTGAAGGAAGAGACCGAATCATGGCCTGGACAG  
+HWI-EAS443:3:26:532:2012#0/1  
HZaabbbaa] ` bbaab [bb` ` Ubaaba` abab` ababb  
@HWI-EAS443:3:26:545:603#0/1  
ATCTGGGCTCTGGCTCATCACTGTCATACTGTTAAGGTC  
+HWI-EAS443:3:26:545:603#0/1  
aab^a` `a` b` `Sa` Y\_aaa\_W` Z` ^a` ` `aV` ^^` ^] V\_  
@HWI-EAS443:3:26:557:677#0/1  
GGTGAACAGTATATGTAACACAACAGGGTAGAGAAGCCT  
+HWI-EAS443:3:26:557:677#0/1  
abXa` b` ^ [ `Y` a` a` \_Y` aaa` \_\_` a` `a [\_\_IaYWa` a^] \_Y  
@HWI-EAS443:3:26:584:1405#0/1  
GTTTTCGGCTGAATCGAGAAAATTGCTTCTCATTGTTTCAG  
+HWI-EAS443:3:26:584:1405#0/1  
a [ ^ ` a ` `` ` X` ^ [ ^ Y ] Ya ` a ] Y [ ^ Y Y ] ZZ ] Y [ YU [UZVY  
@HWI-EAS443:3:26:585:1946#0/1  
CACACATTCACATCTTTTCATTCACTGGAGAGGATGGC  
+HWI-EAS443:3:26:585:1946#0/1  
 [ ` babbaabbbbabababbbbaabaaa` aaa\_\_a\_aa\_` ]  
@HWI-EAS443:3:26:587:1279#0/1  
TTTCTTGCTTATAGTGAAAAGCCTAGTTTTGATTCTTGC  
+HWI-EAS443:3:26:587:1279#0/1  
aaVbbb] U` a` Y` V` a` ] [ a ` ] aaa^ZVa\_a] aaaYa\_a\_  
@HWI-EAS443:3:26:620:176#0/1  
TGGAAATCCGAATACATGAAACAACTTCCAAATGTGTGC  
+HWI-EAS443:3:26:620:176#0/1  
] ` \_YbVR^ bbaabbababbb ] \_ab\_aaZZa [K] a` a` ` ^`

@HWI-EAS443:3:26:636:1521#0/1  
AAGAGCCTAACATAGTCAAACCACATGAGAAAGGCATAAA  
+HWI-EAS443:3:26:636:1521#0/1  
`a]aaaa`abba\_a`\_aa¥baaaaa``\_aaa\_\_\_a\_ba`  
@HWI-EAS443:3:26:674:1073#0/1  
AATTACCTCATGGCTTGAAGCAGGTGCTAGCAGAGCTAC  
+HWI-EAS443:3:26:674:1073#0/1  
\_aabaaaaaaaa`\_W\_X^[UOX]VV]ZZXUXYRTPTXR  
@HWI-EAS443:3:26:706:205#0/1  
TTCATCGACGAACGGGTGAATCAATAATTGTAGAATCTG  
+HWI-EAS443:3:26:706:205#0/1  
aaabaabaaaaa\_\_`a\_0[\_`[U[\_`\_`^`\_]`\_`^\_UYV^  
@HWI-EAS443:3:26:729:1917#0/1  
ACGGCCTTGCTCAATGCATCCTGTGCAGCCATGGATGACT  
+HWI-EAS443:3:26:729:1917#0/1  
aaU]`a]SS`^aT`\_U[`¥]\_X¥WUS^U^UZWSWWU¥UWS  
@HWI-EAS443:3:26:769:1301#0/1  
AACCGTTTCATTGAAATTGGAGTAACACGGAGGGAAGTCC  
+HWI-EAS443:3:26:769:1301#0/1  
\_\_`b`¥Ya`^bbb\_S\_a`ZS¥X`baY\_aaaaa¥0¥¥\_[  
@HWI-EAS443:3:26:773:953#0/1  
GGCCAGTAGGAGTCTATGGGATTCCTTTTCGTCAGTCCGAA  
+HWI-EAS443:3:26:773:953#0/1  
`ab`\_`\_\_aba`a]¥aaaab\_QXWT\_X`\_R¥WSS`Z[^]¥`  
@HWI-EAS443:3:26:779:1394#0/1  
GCTGGGTCCAAAATGAATTCAATAAGGCATGTGAATTGAC  
+HWI-EAS443:3:26:779:1394#0/1  
abbbbb¥^bab\_S¥V`a`\_aaaa\_a`^a¥T¥`a`W¥`\_  
@HWI-EAS443:3:26:830:1436#0/1  
CACAACTTGAGGGTTTTTCGGCTGAATCGAGAAAATTGCT  
+HWI-EAS443:3:26:830:1436#0/1  
a`]¥WaaWX^`X[]\_`XZ[a\_aX\_\_\_^Z`UY\_^X\_WRXWW  
@HWI-EAS443:3:26:932:902#0/1  
CATGTTTCCGATTTGTTTTCAAAGAATTCCTTGGTCATGT  
+HWI-EAS443:3:26:932:902#0/1  
\_aabaabbb`U`bb`abb\_bbbbbabaaab^`abbbb`  
@HWI-EAS443:3:26:933:1448#0/1  
GCAGGTGCTAGCAGAGCTACAGGACATTGAAAATGAAGAG  
+HWI-EAS443:3:26:933:1448#0/1  
``baa`aaab\_baaabaaaaba`a\_aaa`\_aaaaaaaa`aa  
@HWI-EAS443:3:26:967:851#0/1  
CGTCTCCACAATTGAGGGTTTTTCGGCTGAATCGAGAAA  
+HWI-EAS443:3:26:967:851#0/1  
a`QZ^¥^[^`a\_a`ZLU\_ZS[GPWSDIHYaYRQaT]]Z\_]`  
@HWI-EAS443:3:26:982:1052#0/1  
GGTGAACCTTGTAAGTATGGAGTTCTCACTCACTGACCCG  
+HWI-EAS443:3:26:982:1052#0/1  
`^Xba\_J]a^\_Zaaa\_aa]]U^`\_¥`a\_\_`aa[¥¥^XQ]  
@HWI-EAS443:3:26:998:180#0/1  
GAAATTTAGGCTTCTCTACCCCTGTTGTGTTACATATACT



@HWI-EAS443:3:27:1651:860#0/1  
AAGGGAGTGACATAAATACGGCCTTGCTCAATGCATCCT  
+HWI-EAS443:3:27:1651:860#0/1  
ab\_^VybUa\_XL[aaa\_b`^^[WN`aZabaabaa[¥]]S^  
@HWI-EAS443:3:27:1658:401#0/1  
CATTAATCAGGCACTCCTCGATTGCTTCATATAGCCCCC  
+HWI-EAS443:3:27:1658:401#0/1  
a`bbbbbb[`a`\_¥^¥^aT`^`\_¥Z\_a]aaaa\_XPL`]V]  
@HWI-EAS443:3:27:1690:1079#0/1  
CTCCTCATGCTTGCGATATGTTCAATCGGGGCAACATCTT  
+HWI-EAS443:3:27:1690:1079#0/1  
abbaaaW\_babbb¥aabbaaaa\_aa]abab\_a`]aa^aa  
@HWI-EAS443:3:27:211:794#0/1  
GGGGTTTTCGGCTGAATCGAGAAAATTGCTTCTCATTGTT  
+HWI-EAS443:3:27:211:794#0/1  
aX^\_R\_a]\_]`^a^a`^0]V[ZWZ]¥]^¥^\_]S]^\_[^  
@HWI-EAS443:3:27:242:1665#0/1  
GAAAGGCATAAATCCCAATTACCTCATGGCTTGAAGCAG  
+HWI-EAS443:3:27:242:1665#0/1  
`bYbabbbbbbabbba``abaaabb`a\_aa\_W]\_a]N][  
@HWI-EAS443:3:27:291:650#0/1  
ACCGATTTGAGATAATTGAAGGAAGAGACCGAATCATGGC  
+HWI-EAS443:3:27:291:650#0/1  
^aab[aa]a`^]aaaa`a^\_aa``a`^aaa`a\_\_```\_\_^  
@HWI-EAS443:3:27:357:763#0/1  
AGTCTATATGCGTCTCCACAACCTGAGGGGTTTTCGGCTG  
+HWI-EAS443:3:27:357:763#0/1  
ababababaab`\_b\_ba``S\_aaaa``aaaZaaZ\_¥`\_¥^  
@HWI-EAS443:3:27:379:748#0/1  
CTCCTCATGCTTGCGATATGTTCAATCGGGGCAACATCTT  
+HWI-EAS443:3:27:379:748#0/1  
a``\_`ba`\_Y¥`¥```]]¥b[[Z]^`ZZN]ZVXW]]W¥\_`  
@HWI-EAS443:3:27:440:725#0/1  
CCGAAAGAGGCGAAGAGACAATTGAAGAAAAATTTGAGAT  
+HWI-EAS443:3:27:440:725#0/1  
abTQ[`XU[`a``Y¥SMY[Q^][VLZa\_``\_]\_SP`\_\_Z  
@HWI-EAS443:3:27:486:1382#0/1  
AGACAAGAAATGGCCAGTAGGAGTCTATGGGATTCCTTTC  
+HWI-EAS443:3:27:486:1382#0/1  
^abaa^baM¥aa^`aaa¥b[\_`\_¥``aa`\_``\_`a\_]a  
@HWI-EAS443:3:27:526:1022#0/1  
AGGCTTCTTACCCCTGTTGTGTTACATATACTGTTACC  
+HWI-EAS443:3:27:526:1022#0/1  
^T\_SZZ`]]]a\_^baU\_UXMD[W\_Z]LWaaa`X^Z^[]P`  
@HWI-EAS443:3:27:557:1541#0/1  
GCCTAACATAGTCAAACCACATGAGAAAGGCATAAATCCC  
+HWI-EAS443:3:27:557:1541#0/1  
`bbaabb`aba]abbb`baabbababba\_aaaabab`````  
@HWI-EAS443:3:27:705:1068#0/1  
ATGGCACCAGAAAAAGTAGACTTTGATGACTGCAAAGATG

+HWI-EAS443:3:27:705:1068#0/1  
a`]aaabbbba\_`aa\_a^aaaaaaaaaaaaa¥EZa\_aaa\_a  
@HWI-EAS443:3:27:777:1598#0/1  
CTCTTCATGTTCTTTGTCCTTGGGATCTTCTTCATTTT  
+HWI-EAS443:3:27:777:1598#0/1  
a`\_Xa`Y[T]X`a`Z^L¥Ya\_\_OTXZ[[]^\_``X]\_]X  
@HWI-EAS443:3:27:816:668#0/1  
CCGATTGGCCATGTTTCCGATTTGTTTTCAAAGAATTCCT  
+HWI-EAS443:3:27:816:668#0/1  
`aa`baaaaa\_a`ab\_a]Z\_aa\_\_\_aa]\_\_\_``\_`a\_[¥\_  
@HWI-EAS443:3:27:86:1101#0/1  
GGCATGTGAATTGACTGATTCAAGCTGGATAGAACTTGAT  
+HWI-EAS443:3:27:86:1101#0/1  
`bbbbbb^bb`aabbbabaaabb^aab\_aabaabaa``aa  
@HWI-EAS443:3:27:874:1199#0/1  
GCAATATGCACACATTTGGAAGTTTGTTCATGTATTCGG  
+HWI-EAS443:3:27:874:1199#0/1  
aaaa`aaaa\_a`aa`a`^aY\_\_`]a\_a\_\_\_]\_aZ^\_\_  
@HWI-EAS443:3:27:880:447#0/1  
GCCTGGACAGTGGTGAACAGTATATGTAACACAACAGGGG  
+HWI-EAS443:3:27:880:447#0/1  
aa\_aaaa`a]`¥ZaW]a^¥]`a\_a`\_\_^Y`^`]]\_\_\_\_`  
@HWI-EAS443:3:27:900:475#0/1  
CACCCAGGGGAGTGGAGGAAGGCTCTATTGGGAAAGTGTG  
+HWI-EAS443:3:27:900:475#0/1  
aaabaabaaaaa^aa`aa^`a\_`^`\_`\_aaaa`Y`\_¥U\_Y^  
@HWI-EAS443:3:27:945:453#0/1  
AGCTGAAAGTCATCCATGGCTGCACAGGATGCATTGAGCA  
+HWI-EAS443:3:27:945:453#0/1  
aaabbbbbbaaba`\_aab`aaa`\_`\_`a`\_`\_`¥`\_`\_]\_\_¥a  
@HWI-EAS443:3:27:979:1920#0/1  
GGAGGGAATACCACTATATGATGCAATCAAATGCATGAAG  
+HWI-EAS443:3:27:979:1920#0/1  
\_baaaabbbbbaaaabbbbbaaaa`b`aaaabaa\_baaa`  
@HWI-EAS443:3:27:989:1537#0/1  
GAGAAGATCCCAAGGACAAAGAACATGAAGAGAACAAGCC  
+HWI-EAS443:3:27:989:1537#0/1  
abbbbbbbabbaaaa`babaaaaaaaaaaa`aa`aab`a\_^  
@HWI-EAS443:3:28:1011:1069#0/1  
ACTTCTCCAGCCTTGAAAACTTTAGAGCCTATGTAGATGG  
+HWI-EAS443:3:28:1011:1069#0/1  
aabbaabaaaaabaa`aaa\_a^aaa\_\_\_a`aa^``\_aa`  
@HWI-EAS443:3:28:1076:254#0/1  
ATAAATACGGCCTTGCTCAATGCATCCTGTGCAGCCATGG  
+HWI-EAS443:3:28:1076:254#0/1  
a\_]a\_^Y```NFQTT^X][[X\_QR`\_YNPNU¥GP¥U]]  
@HWI-EAS443:3:28:1092:1860#0/1  
AGCAGGTGCTAGCAGAGCTACAGGACATTGAAAATGAAGA  
+HWI-EAS443:3:28:1092:1860#0/1  
Y^a¥X`I`\_Q\_PQ`a\_`a]a`^¥]\_]``YV`\_\_aaY\_^



@HWI-EAS443:3:28:1146:381#0/1  
AGGACATTGAAAATGAAGAGAAGATCCCAAGGACAAAGAA  
+HWI-EAS443:3:28:1146:381#0/1  
abaaaabbbba`aaaaaaa`aaa\_a`\_`aa\_\_^a`a`\_`  
@HWI-EAS443:3:28:1147:364#0/1  
CGATTGGCCATGTTTCCGATTTGTTTTCAAAGAATTCCTT  
+HWI-EAS443:3:28:1147:364#0/1  
ababbbba`aa`ba^abaab`¥\_abb\_`aaba`aa^aa  
@HWI-EAS443:3:28:1155:1523#0/1  
CTGGAACCTTCGATCTTGGGGGCTATATGAAGCAATCGA  
+HWI-EAS443:3:28:1155:1523#0/1  
\_ba]abbabb]\_aa\_bbba\_aba[ba`aZSa`b\_aaaZ\_  
@HWI-EAS443:3:28:1179:353#0/1  
GGGGCATGGAATGAGGCGCTGCCTTCTTCAGTCTCTTCA  
+HWI-EAS443:3:28:1179:353#0/1  
aaba¥aabaaaaa`aa\_b`aa^\_\_aWa`Z`YP`W\_aW¥  
@HWI-EAS443:3:28:1188:1088#0/1  
CAAAATGAATTCAATAAGGCATGTGAATTGACTGATTCAA  
+HWI-EAS443:3:28:1188:1088#0/1  
[`¥a¥^^QIZ[S`¥b`a`^^^a]aaababVaa^]^a[\_a\_  
@HWI-EAS443:3:28:1192:1292#0/1  
GTGTGCATATTGCAGCAAACCTGTTAGTTTCGATTTTCGG  
+HWI-EAS443:3:28:1192:1292#0/1  
\_V`[¥XHZ`\_]`aa\_¥[ZX`^`\_a`¥[\_T\_]a^^a`T  
@HWI-EAS443:3:28:1200:1442#0/1  
AGCCCCCAAGATCGAAGTTCCAGTTCCAGTTGTCCC  
+HWI-EAS443:3:28:1200:1442#0/1  
a\_¥`^aaaaa]\_`Va]^\_ZS^¥W^][T¥SU]¥^MYQSWUW  
@HWI-EAS443:3:28:1201:295#0/1  
ACGGCCTTGCTCAATGCATCCTGTGCAGCCATGGATGACT  
+HWI-EAS443:3:28:1201:295#0/1  
¥`\_^\_[^Z¥a^\_a[RS^]S[]W[DZZW`WTN]\_\_ZO`MKP  
@HWI-EAS443:3:28:1222:263#0/1  
GGCTGCATTGAGGGCAAGCTTTCCCAAATGTCAAAGAAG  
+HWI-EAS443:3:28:1222:263#0/1  
a\_aa¥[`]\_QZ\_aa\_]\_[LW`]TSW^]\_a`T^W\_X]TOV  
@HWI-EAS443:3:28:1224:71#0/1  
CAAGGACAAAGAACATGAAGAGAACAAGCCAATTGAAGTG  
+HWI-EAS443:3:28:1224:71#0/1  
aa\_b`¥ababba\_^aab\_`b``\_a`aa\_SW\_\_a`¥ZVXNX  
@HWI-EAS443:3:28:1282:256#0/1  
GATCTTGGGGGCTATATGAAGCAATCGAGGAGTGCCTGA  
+HWI-EAS443:3:28:1282:256#0/1  
abbaaab`baaaaaab`abaaa\_aaa[a\_\_aU[NZXU\_`T  
@HWI-EAS443:3:28:1282:496#0/1  
GCCCCCAAGATCGAAGTTCCAGTTCCAGTTGTCCCT  
+HWI-EAS443:3:28:1282:496#0/1  
`aa`aa¥aaa`a`aaaa`S`^a`a[T^Z¥\_^\_U]]^]SU¥  
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+HWI-EAS443:3:28:1293:1527#0/1  
`aa^¥babaI`^Y[\_\_\_Xb]S[`bYaI\_aLF[abaY^T\_a  
@HWI-EAS443:3:28:1302:1829#0/1  
ACCGAACTTCTCCAGCCTTGAAAACCTTTAGAGCCTATGTA  
+HWI-EAS443:3:28:1302:1829#0/1  
`a`[^a^¥Q¥Z\_aa^UY`aX`a`X¥a^`^^\_ZV¥¥^\_U]  
@HWI-EAS443:3:28:1365:1727#0/1  
GACACACATTACATCTTTTCATTCACTGGAGAGGAGATG  
+HWI-EAS443:3:28:1365:1727#0/1  
aW^U^)]\_Y`bbaa^]N]aa`[`Qb[aaaXLa[UaZ\_H^  
@HWI-EAS443:3:28:1402:1406#0/1  
CCCGAATGCACTATTGAAGCACCGATTTGAGATAATTGAA  
+HWI-EAS443:3:28:1402:1406#0/1  
ab^`]^aZ^Y^aa¥aa¥a`WW¥aVU[aa[a[]\_\_X\_a]]  
@HWI-EAS443:3:28:1457:1507#0/1  
TTCGGATTTCCATTTTCATCGACGAACGGGGTGAATCAATA  
+HWI-EAS443:3:28:1457:1507#0/1  
TVa^\_ZaYa`\_a\_\_aa\_¥a^^aa\_\_`\_]aR^\_]aW`Z\_V  
@HWI-EAS443:3:28:1504:1129#0/1  
GAAATGGCCAGTAGGAGTCTATGGGATTCCTTTCGTCAGT  
+HWI-EAS443:3:28:1504:1129#0/1  
`UGS]```]\_\_P¥`[WVW[a[[a`^SPa¥¥\_^\_^]¥WYUK  
@HWI-EAS443:3:28:1516:712#0/1  
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+HWI-EAS443:3:28:1516:712#0/1  
a`b\_aXbYH\_``babb`bb`ba`bbba\_aa`baZaaa\_`U  
@HWI-EAS443:3:28:1518:204#0/1  
AGAAAAAGTAGACTTTGATGACTGCAAAGATGTTGGAGAC  
+HWI-EAS443:3:28:1518:204#0/1  
aba`¥^¥b[ab¥[^N\_aa`^J^a\_L[KQ[¥`\_TV\_[¥\_\_Q  
@HWI-EAS443:3:28:151:834#0/1  
GCCAGTAGGAGTCTATGGGATTCCTTTCGTCAGTCCGAAA  
+HWI-EAS443:3:28:151:834#0/1  
abaUaabb```\_abaaaaa`aabaaa`a^aa`¥^`]Y`a  
@HWI-EAS443:3:28:1533:975#0/1  
GGGGGCTATATGAAGCAATCGAGGAGTGCCTGATTAATGA  
+HWI-EAS443:3:28:1533:975#0/1  
aa`\_a`bbbabb\_aaaaa\_`a`aa^a^a^Z`[\_`\_```[\_`  
@HWI-EAS443:3:28:1547:1169#0/1  
AACTTCTCCAGCCTTGAAAACCTTTAGAGCCTATGTAGATG  
+HWI-EAS443:3:28:1547:1169#0/1  
ab`ababaaaaZ\_aaa`a`^aaa\_b\_a¥\_a\_a`\_]¥`]  
@HWI-EAS443:3:28:1604:601#0/1  
GTCGTCTCAAGAATGGTTCAATTTTGGCGTTCACCTTCTT  
+HWI-EAS443:3:28:1604:601#0/1  
a\_``^`\_a`aaaa\_`aa^a^\_]aa`a\_`U`^\_Y^]\_`T`^  
@HWI-EAS443:3:28:1609:1192#0/1  
CCCCGTTTCGTCGATGAAATGGAAATCCGAATACATGAAAC  
+HWI-EAS443:3:28:1609:1192#0/1  
a````bba]a]\_I[b[¥aaYWQ^a\_UPUYTa`\_```\_]U

@HWI-EAS443:3:28:1614:1895#0/1  
CAGTCATCAAAGTCTACTTTTTCTGGTGCCATATTTTCAC  
+HWI-EAS443:3:28:1614:1895#0/1  
a¥WQ]`a^ab^^\_¥ba\_baaa[]`^`V\_QD¥aaa`a\_]aU  
@HWI-EAS443:3:28:1644:1598#0/1  
GACATTCTTTGGCTGGAAAGAGCCTAACATAGTCAAACCA  
+HWI-EAS443:3:28:1644:1598#0/1  
ababaa]ba¥a^I]aaUb\_aaa^\_]a^R\_aa]]]a\_`]\_\_  
@HWI-EAS443:3:28:1722:1822#0/1  
AAGAATTCCTTGGTCATGTCTTTCTCTTTGACAGAAGACT  
+HWI-EAS443:3:28:1722:1822#0/1  
YRR\_\_`^VM[^X\_`Y]^\_K0]R^¥]^VXNZ]UI^^VLZ`Y  
@HWI-EAS443:3:28:1789:906#0/1  
TAAATCCCAATTACCTCATGGCTTGAAGCAGGTGCTAGC  
+HWI-EAS443:3:28:1789:906#0/1  
[a`a`aa\_a][^¥ZZaaa\_a`V`ZO¥¥[WNUQ[VVB BBBB  
@HWI-EAS443:3:28:21:300#0/1  
GCTTCATATAGCCCCCAAGATCGAAGGTTCCAGGTTCCA  
+HWI-EAS443:3:28:21:300#0/1  
abaa`bbb`a\_aaaa^a[X\_`^]aWMWYNY¥V VVNYX^Y  
@HWI-EAS443:3:28:32:161#0/1  
CTCCAACATCTTTGCAGTCATCAAAGTCTACTTTTTCTGG  
+HWI-EAS443:3:28:32:161#0/1  
abbb`Va^^`^aaaa```aba`S`^aa^``aaaa`^\_  
@HWI-EAS443:3:28:410:1560#0/1  
GATGGCCACCAAAGCGGACTACACCCTTGACGAAGAGAGC  
+HWI-EAS443:3:28:410:1560#0/1  
YW`^^`b`b]W]^]ab```b^baababaab]abaaa`Z\_  
@HWI-EAS443:3:28:454:1631#0/1  
ATCATTAATCAGGCACTCCTCGATTGCTTCATATAGCCCC  
+HWI-EAS443:3:28:454:1631#0/1  
a^\_a`\_\_¥^b¥Sa\_a^`^¥SU^SO\_]^^`^aXaU^X^\_  
@HWI-EAS443:3:28:489:734#0/1  
ATCTTTGCAGTCATCAAAGTCTACTTTTTCTGGTGCCATA  
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\_Xa]\_ZX\_¥¥X^Z[FYY^[]]a\_W\_¥a`\_`¥^XV]Z¥¥]]X  
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GATGAAATGGAAATCCGAATACATGAAACAAACTTCCAAA  
+HWI-EAS443:3:28:509:195#0/1  
^^]^^¥Xa`^W]¥]aa] []`a\_\_\_aaaaa\_\_\_]a^ZZa[^  
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GGGGGGCTATATGAAGCAATCGAGGAGTGCCTGATTAATG  
+HWI-EAS443:3:28:530:1139#0/1  
aaaaaaaaaba\_N^\_[Z`\_]\_[a^Y\_^UWW¥^XZ\_YZV^RS]  
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+HWI-EAS443:3:28:603:147#0/1  
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+HWI-EAS443:3:28:694:1686#0/1  
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+HWI-EAS443:3:28:702:274#0/1  
^a`)]`aa[aaa\_W`aaaa¥¥`^^[a`\_^a¥[¥^PS  
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+HWI-EAS443:3:28:954:1756#0/1  
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+HWI-EAS443:3:29:1017:655#0/1  
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+HWI-EAS443:3:29:1035:1193#0/1  
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+HWI-EAS443:3:29:1137:1176#0/1  
aba^a]a`a^R^`\_a`\_aba`¥¥]`a[``aaa\_^^^B  
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+HWI-EAS443:3:29:1164:1629#0/1  
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+HWI-EAS443:3:29:1227:719#0/1  
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+HWI-EAS443:3:29:1266:821#0/1  
a\_`aa`XR\_a\_`\_]a¥ZWa¥\_`a¥]^]W]]]\_`^\_X]]  
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+HWI-EAS443:3:29:1280:953#0/1  
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AAGACATTCTTTGGCTGGAAAGAGCCTAACATAGTCAAAC  
+HWI-EAS443:3:29:1303:1562#0/1  
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+HWI-EAS443:3:29:1317:1031#0/1  
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+HWI-EAS443:3:29:1336:553#0/1  
aaaa\_\_a`a\_\_a\_a]\_\_`\_\_^a`^\_]a`^`[]\_Y\_\_^¥\_Y  
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+HWI-EAS443:3:29:157:967#0/1  
\_R^`^]Z]`[\_`YX^V]`]]^[SV]¥]\_[W¥QMX]V[[YT  
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+HWI-EAS443:3:29:160:49#0/1  
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+HWI-EAS443:3:29:18:463#0/1  
a`¥\_]TP\_`\_aL[]\_\_\_\_[TZ¥¥^[`ZW`^X`[ZZZW^][B  
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+HWI-EAS443:3:29:199:292#0/1  
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+HWI-EAS443:3:29:233:334#0/1  
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+HWI-EAS443:3:29:36:962#0/1  
aaa\_a`a`W`\_^\_\_\_\_\_V\_\_\_^\_^^^\_\_\_\_\_]XX¥^]XX  
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````abbaaa^]baZ]^aa^^aaaa`^X[Za\_¥aaa¥\_`]  
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+HWI-EAS443:3:29:542:776#0/1
aaaa````aabaa`aaa_^[^V_]M¥¥¥`¥`_¥¥__^W`¥¥
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+HWI-EAS443:3:29:627:1893#0/1
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+HWI-EAS443:3:29:629:1883#0/1
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+HWI-EAS443:3:29:696:659#0/1
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+HWI-EAS443:3:29:749:1561#0/1
]_a^a`a`_a]_^aa`a]`a_`a_^]a]_¥]`]a^]]_X_
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`[]`_P__a`a_^`_`a^_____¥^^_V`_¥W_W^^WB
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+HWI-EAS443:3:29:80:1284#0/1
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@HWI-EAS443:3:29:844:528#0/1
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`TZOX]aa_TYa^a`_aaa]^aa`a_Ya^_¥_```____[U
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`a^aaaa^_aaaa`_a__a`_aa__a_____``^`^`¥
@HWI-EAS443:3:29:97:1454#0/1
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`¥`bb_Tab^N]W]¥_Y[¥[_^HWX__Y_`ZR][_LWYVa
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a_a¥UYXV[Z`¥¥]WS[X¥_Z^X^^^]^WZ_]UYXSMZ]]

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`_Z__`U^`ba_GYUZ[`TIZ][P^[YRXV^LRDUTHWB
@HWI-EAS443:3:2:1238:282#0/1
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+HWI-EAS443:3:2:1238:282#0/1
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+HWI-EAS443:3:2:1333:1356#0/1  
aa`ab\_\_aa\_\_aab\_^\_aaa^\_a\_a¥`\_aa\_a^]\_W^\_[\_`  
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\_`b]ab`^\_WaaaYW]`b`¥]aaa[``Y[Z`a]a`¥a¥X\_  
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+HWI-EAS443:3:2:403:868#0/1  
aa\_^a^aaa\_\_\_\_\_`W\_\_\_\_aX^¥^\_]\_\_`]]`X^\_[\_X]B  
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+HWI-EAS443:3:2:628:1476#0/1  
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+HWI-EAS443:3:2:678:1529#0/1  
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+HWI-EAS443:3:2:738:1545#0/1  
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^\_]^^^ZYPO\_`^YZ]X`a`¥W\_^`[b`[Y\_^UYVZTTL  
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+HWI-EAS443:3:2:87:1163#0/1  
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aa]aaaa`aaaa`a`a`aa`\_`\_\_`\_`\_]\_\_\_^XZX^  
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+HWI-EAS443:3:30:1076:1113#0/1  
a`]`aabb`abbaa`aaaaaaa`\_aX`aaaa^`\_\_`\_U^  
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+HWI-EAS443:3:30:1146:2030#0/1  
\_`V\_`a`^b\_`aaaVXZUa`aV[`\_¥X\_a^\_aaXYZQa]  
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+HWI-EAS443:3:30:1180:409#0/1  
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+HWI-EAS443:3:30:1193:1536#0/1  
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+HWI-EAS443:3:30:1241:1509#0/1  
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a¥YX¥a`b\_`aaT]aXb^L^P[U`\_`a\_`aVaa\_`^YY^G[  
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+HWI-EAS443:3:30:1649:427#0/1  
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+HWI-EAS443:3:30:1678:1359#0/1  
aa`\_\_]Wa\_\_a¥\_]X\_]\_]`W[^Z\_[Y]V]^XOZZX  
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+HWI-EAS443:3:30:16:256#0/1  
\_¥^`^]b`ZZ\_`a]``aaa`a^]\_`^^^\_YZZ`^^[YTP  
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+HWI-EAS443:3:30:184:422#0/1  
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a\_`^bb`\_`aaaa`aaa\_]a^`a[aZa\_^]\_a^\_`\_`  
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+HWI-EAS443:3:30:782:1885#0/1  
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+HWI-EAS443:3:30:798:520#0/1  
]¥`\_a`a\_VZ[Z\_aa`a`aaa\_```aaabb\_R\_a\_]W`a`  
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+HWI-EAS443:3:30:834:1534#0/1  
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+HWI-EAS443:3:30:867:1962#0/1  
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+HWI-EAS443:3:30:869:1524#0/1  
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a^aaaaaabaaaaaaa\_a\_a\_```¥\_\_\_\_S\_b\_a^Z\_]a  
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+HWI-EAS443:3:31:1043:1646#0/1  
a``a^a`\_b0a\_`aa\_]a]]^`a`¥^`Z\_```][a[aWY  
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TCTCATTTGAGAAATGATACTGATGTGGTGAACCTTTGTAA  
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+HWI-EAS443:3:31:1129:1327#0/1  
Zaabbabbbbbb`bba`abbb[TTabaaaabbU``aa[[  
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+HWI-EAS443:3:31:1194:1030#0/1  
\_a\_aa`aaaaa[^^Ya`]¥L]`¥XOW\_¥\_\_\_\_^\_]``]`XU  
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aa^^]Z¥]\_b\_\_\_\_]^ab]a¥b]¥aaaHZ`[]¥\_]`\_a\_\_^  
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aa]ZZa]\_\_`\_Sa\_Y\_[a`W\_\_\_\_\_^^SW[]][ZGVZ]OUY  
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a[a^bba\_\_aT0^aYa`a^]ba\_`^ZYa`^[\_]a\_a0][^  
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+HWI-EAS443:3:31:425:197#0/1  
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+HWI-EAS443:3:31:45:682#0/1  
aa[a\_b\_W`¥Y`aa^`aS`aY]YUa\_aa`aaa\_]TO[¥U`  
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+HWI-EAS443:3:31:491:500#0/1  
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@HWI-EAS443:3:31:498:1191#0/1  
AATCAGGCACTCCTCGATTGCTTCATATAGCCCCCAAGA  
+HWI-EAS443:3:31:498:1191#0/1  
aaaab]`aaaaaaaaa][^a`^]\_a[aZLZ`\_Z\_\_¥\_`^¥^



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+HWI-EAS443:3:31:541:469#0/1  
aaaaaab^aaaaa\_a^`\_\_`^^`^^`\_^^Z^`W\_\_^]  
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+HWI-EAS443:3:31:633:1516#0/1  
a`¥`¥L]`MT]¥\_ZRZ^]¥T\_LTSUMUYa\_`^^NYRY\_\_I  
@HWI-EAS443:3:31:635:58#0/1  
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ZZabb\_\_[bb\_ab`a\_Ya^aa]bb\_aaaaaa^`aa`a`a`a`  
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+HWI-EAS443:3:31:810:772#0/1  
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+HWI-EAS443:3:31:833:61#0/1  
[^TVbaa`^ZVabbXbb`\_a^aaaa\_Z¥\_ba\_aaV¥``\_]\_  
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+HWI-EAS443:3:31:854:619#0/1  
\_`bb¥a`T^b^bb`\_\_a^\_`b`aaa\_a¥`¥^`[W\_¥GYFF  
@HWI-EAS443:3:31:890:265#0/1  
GTTTCCGATTTGTTTTCAAAGAATTCCTTGGTCATGTCTT  
+HWI-EAS443:3:31:890:265#0/1  
aYZ^Za\_VW\_]YX`a^]^^`¥XR^\_S`\_`a`^W^^^]Z]\_]\_  
@HWI-EAS443:3:31:894:1310#0/1  
CAAATCGGTGCTTCAATAGTGCATTCGGGTCACCAGATTC  
+HWI-EAS443:3:31:894:1310#0/1  
ab\_`aba`W`aaaa\_aaa\_X`a`\_`a\_\_Xa```¥\_`TZP  
@HWI-EAS443:3:31:935:1174#0/1  
ATCAGTATCATTCTCAAATGAGACCTTCCTTTTATAATG

+HWI-EAS443:3:31:935:1174#0/1  
¥a`\_\_\_a^a¥`\_\_X`aaaa`\_aa^`\_aa\_aaa\_``¥P]a  
@HWI-EAS443:3:31:939:810#0/1  
GCCCTGCTCTCTTCGTCAAGGGTGTAGTCCGCTTTGGTGG  
+HWI-EAS443:3:31:939:810#0/1  
`aaaa\_a\_\_a`a`\_^\_a`a\_\_[]`[Z``]aaaa`^)`^  
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+HWI-EAS443:3:31:948:423#0/1  
S`babZ```Ya]S``X`b]a^[\_U]]aaa`ab]\_a]bV^^  
@HWI-EAS443:3:31:969:1015#0/1  
GTGTTACATATACTGTTCCACTGTCCAGGCCATGATTC  
+HWI-EAS443:3:31:969:1015#0/1  
aab\_aaaaaaaaa`a``aa`\_\_a\_[Yaa[ZQ[WX¥^¥^UU  
@HWI-EAS443:3:31:96:392#0/1  
CACTCGGTGAAAATATGGCACCAGAAAAAGTAGACTTTGA  
+HWI-EAS443:3:31:96:392#0/1  
aaa`aaa]]Y]V0¥T[[\_]V][V^[[\_¥[]W[\_^\_\_X]^]  
@HWI-EAS443:3:32:1003:663#0/1  
TCCGTGTTACTCCAATTTCAATGAACCGTTCTCTTTGTA  
+HWI-EAS443:3:32:1003:663#0/1  
abaa`a`a]aa`aa\_`a``a``\_`\_`\_a\_]\_]`[^^^]Z]  
@HWI-EAS443:3:32:1024:463#0/1  
CTTGGGATCTTCTTTCATTTTCAATGTCCTGTAGCTCTG  
+HWI-EAS443:3:32:1024:463#0/1  
^a\_W\_¥V¥bbbbbb[bbaa`\_abVa]`\_X\_]aaa^W\_`b^`  
@HWI-EAS443:3:32:1046:2022#0/1  
GCACACATTTGGAAGTTTGTTCATGTATTCCGATTTCCA  
+HWI-EAS443:3:32:1046:2022#0/1  
Ya`^^`aaabab\_`baba¥T¥a`bb`Waa``ZYa]W`aba  
@HWI-EAS443:3:32:1066:267#0/1  
GGCATGGAAATGAGGCGCTGCCTTCTTCAGTCTCTTCAGC  
+HWI-EAS443:3:32:1066:267#0/1  
a`a`\_\_a\_a)`\_a\_a\_]aY[V[WW[¥¥[VW¥WU[TVV^Z[W  
@HWI-EAS443:3:32:1088:1077#0/1  
ATTCCTTGGTCATGTCTTTCTTTGACAGAAGACTCGGC  
+HWI-EAS443:3:32:1088:1077#0/1  
\_\_^RXU^bb\_Y\_\_V]]T^Z\_a` `[Z]W\_a\_\_¥]YNaWS]  
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CCTGCTTCCAAGCCATGAGGTAATTGGGATTTATGCCTTT  
+HWI-EAS443:3:32:1104:453#0/1  
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CATTAAATCAGGCACTCCTCGATTGCTTCATATAGCCCCC  
+HWI-EAS443:3:32:1145:904#0/1  
a^]S]]a]\_V\_JQ^]YQWV`^UVZ¥ZS][Z^TX¥^¥\_¥[U  
@HWI-EAS443:3:32:114:1885#0/1  
AGAAGATGTTGCCCGATTGAACATATCGCAAGCATGAGG  
+HWI-EAS443:3:32:114:1885#0/1  
a\_`]T\_[VW\_\_\_¥¥ZW¥\_\_Uab\_`^aUXUXSPW^WYY]X

@HWI-EAS443:3:32:1296:1425#0/1  
GAAATTTAGGCTTCTCTACCCCTGTTGTGTACATATACT  
+HWI-EAS443:3:32:1296:1425#0/1  
aaaabbabb`baaaa\_aa^aaaa\_`\_\_a[aa\_`a`\_\_a\_  
@HWI-EAS443:3:32:1304:1633#0/1  
ACCGAATCATGGCCTGGACAGTGGTGAACAGTATATGTAA  
+HWI-EAS443:3:32:1304:1633#0/1  
]^b`¥¥[¥\_\_[S]a`W^\_ab`a¥]]X]ZZ`XR[X`[]Sa\_  
@HWI-EAS443:3:32:1310:1449#0/1  
AAGCGACTACACCCTTGACGAAGAGAGCAGGGCAAGAAT  
+HWI-EAS443:3:32:1310:1449#0/1  
QR\_\_XVZZS\_`ZXXYSZU¥\_[XaR[Z^NX¥ZZFYU¥V]Y  
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GCCTGGACAGTGGTGAACAGTATATGTAACACAACAGGGG  
+HWI-EAS443:3:32:1339:20#0/1  
a``\_a^^`\_[J]\_S\_]XV[aUX\_VX\_]YVTV^WPWq]\_\_  
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CTCCCTTCATTATGTATTAGTAGCCCTGCAGTGGGACAC  
+HWI-EAS443:3:32:139:1149#0/1  
aabaaaaU\_`a][a```\_V]`]\_\_^\_]Y\_^ZN[Z[  
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+HWI-EAS443:3:32:1417:1786#0/1  
`aa`]aa`aaaYa^^Va`^Za\_VY[\_^M] []W\_Ua\_\_W  
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+HWI-EAS443:3:32:1450:1645#0/1  
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GGGGCATGGAAATGAGGCGCTGCCTTCTTCAGTCTCTTCA  
+HWI-EAS443:3:32:1453:274#0/1  
`W\_b]RR\_WMYWW]^¥P[L¥ZXV\_BBBBBBBBBBBBBB  
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+HWI-EAS443:3:32:145:803#0/1  
abbbbaaab`bbb\_aabaaaaa\_`aa``a`a¥`\_`¥a  
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+HWI-EAS443:3:32:1470:1309#0/1  
ab```abbb`bbbab`^a`a`abbabb¥ab^][b\_b\_aa  
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+HWI-EAS443:3:32:1472:116#0/1  
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AGCTTTCCCAAATGTCAAAGAAGTGAACGCCAAAATTGA  
+HWI-EAS443:3:32:1476:54#0/1  
`b]aba`aababa`^aa`aaa\_]\_aaa]\_`Y\_\_¥aaaa  
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GCCATGTTTCCGATTTGTTTTCAAAGAATTCCTTGGTCAT

+HWI-EAS443:3:32:148:251#0/1  
abaOV^\_¥[a\_]JQ¥\_aXV\_`aT¥[U¥WTZ]Y[R][X[S[  
@HWI-EAS443:3:32:1529:1030#0/1  
GACGAAAGGAATCCCATAGACTCCTACTGGCCATTTCTTG  
+HWI-EAS443:3:32:1529:1030#0/1  
¥\_abaaabb`baa`aaa`aa\_a`Z`\_]YY¥\_TJ^]W[aY  
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CAGTTTTGTTTTCCGTCTTCCTTCTTTGGTCCTACATTTG  
+HWI-EAS443:3:32:1574:1062#0/1  
aab`Xb`bababaaZa[ba`YaaRbabb^^`Sa\_`\_bab\_  
@HWI-EAS443:3:32:1673:673#0/1  
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+HWI-EAS443:3:32:1673:673#0/1  
aaY^baabaaaa`]a^aa`a\_a`¥a¥a¥a^]¥`G^W]HZ]  
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GTGACCCGAATGCACTATTGAAGCACCGATTTGAGATAAT  
+HWI-EAS443:3:32:194:1825#0/1  
a`Wbbba]bbabbbabbbabbbbbb`aaaaaba^aa`  
@HWI-EAS443:3:32:196:654#0/1  
GGGGCATGGAAATGAGGCGCTGCCTTCTTCAGTCTCTTCA  
+HWI-EAS443:3:32:196:654#0/1  
`babb`abbaa`bbababbbaaaaa`a`aaaaWa\_a¥\_]\_  
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TAATCAGGCACTCCTCGATTGCTTCATATAGCCCCCAAG  
+HWI-EAS443:3:32:208:1002#0/1  
``aabb^W`aaaa]``V\_Y¥a]``^``a\_a`b^b\_NT  
@HWI-EAS443:3:32:264:1570#0/1  
CACGAGGGGGGAGGAATACCACTATATGATGCAATCAAAT  
+HWI-EAS443:3:32:264:1570#0/1  
a`a`^]Y\_a`Y\_Y`^U]a]¥]^`\_^^¥^\_\_Y^MZ[]]  
@HWI-EAS443:3:32:278:98#0/1  
GGACTTCCCTCCGTGTTACTCCAATTTCAATGAACCGGTT  
+HWI-EAS443:3:32:278:98#0/1  
aaa\_aaaaaa`aZa\_\_a\_^\_\_^^¥^^^]]]]^X]TON  
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+HWI-EAS443:3:32:324:1256#0/1  
aaaa`[[HQUX^^ZZR0^X^RZ][X\_]^^^]^[^\_ZXZ¥a`  
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+HWI-EAS443:3:32:324:1878#0/1  
]Yb^Z\_WS\_b^W^bb`\_aaHaZ]XWQa\_[X`U^[aY\_]`\_  
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a]bbba¥bab`^\_aaaa`]a`a`a`aa`aa^`a`[`]¥`  
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CTCATTTGAGAAATGATACTGATGTGGTGAACTTTGTAAAG  
+HWI-EAS443:3:32:376:1457#0/1  
a\_a^aaaa`a`Y````¥`a\_\_\_\_\_W¥THX\_\_[\_^Z^Y]LQ

@HWI-EAS443:3:32:394:414#0/1  
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+HWI-EAS443:3:32:394:414#0/1  
a`^`aZ\_a\_a`Z\_^`XX`\_\_[Z\_¥Z`\_PUUVSZVVWUJ  
@HWI-EAS443:3:32:394:713#0/1  
ATTCAGTAGCCCTGCAGTGGGACACTTCTGCTGTAAAATA  
+HWI-EAS443:3:32:394:713#0/1  
a`^`a[Z\_a`aaa\_\_\_a\_W\_WZ[`\_]`^`]ZZ[^TVQFSWT  
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+HWI-EAS443:3:32:412:1040#0/1  
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+HWI-EAS443:3:32:466:1788#0/1  
aaab^bbbababbbbaaaaaa[b`a]Y`^R¥`W¥QP  
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TTCCGATTTGTTTTCAAAGAATTCCTTGGTCATGTCTTTC  
+HWI-EAS443:3:32:485:1683#0/1  
aabba^Ta`]`aaaba`¥Za\_\_^]aaY]YPa^\_N[]\_a\_\_  
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+HWI-EAS443:3:32:488:852#0/1  
`ab\_\_b`¥abV^babaabb\_^`^a`Y[Y`^Y]`a\_aP`^]  
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+HWI-EAS443:3:32:518:1316#0/1  
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+HWI-EAS443:3:32:520:1683#0/1  
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+HWI-EAS443:3:32:557:1219#0/1  
a`a¥ba[b`VV]aa^\_\_a`Y`^a`W¥V^^VR]I[YXYRV^  
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CCCGAATGCACTATTGAAGCACCGATTTGAGATAATTGAA  
+HWI-EAS443:3:32:701:992#0/1  
aba`baa`aa`aaaa\_a`aaa`\_a^\_a\_\_\_`\_`\_`^`\_U  
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+HWI-EAS443:3:32:858:1944#0/1  
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GCTCTCTTCGTCAAGGGTGTAGTCCGCTTTGGTGGCCATC  
+HWI-EAS443:3:32:874:1251#0/1  
]\_]\_R`bba`^]Z[V`a^bT^XWZXTZ^aaZ¥^¥aT\_RMZ  
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+HWI-EAS443:3:32:981:1636#0/1  
aa`aaaaaR`a`a`aa\_\_\_\_\_]0`\_`a^\_\_\_\_`]\_^Z^a`  
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+HWI-EAS443:3:33:1125:1563#0/1  
a^]aV\_JbaaUJXS\_¥a`Z¥0U¥aXFKR]XLDDZ¥V¥VZU  
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+HWI-EAS443:3:33:1134:1132#0/1  
aa\_aabba^`Vb¥bb[^R\_aY¥b\_]XT¥\_U`a¥^YaVZ\_Q  
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+HWI-EAS443:3:33:113:1277#0/1  
a\_a^aaa\_aVU[Y]VVUWZ\_TTZ[UY^][VUZUV][Z[TT  
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GGCCATCTCCTCTCCAGTGAATGAAAAGATGTGAATGTGT  
+HWI-EAS443:3:33:1176:1086#0/1  
aba`Z\_Z^a]]^`]]]H]\_VZ]\_`]¥\_aY\_[Y¥WU¥PRQ  
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CCCCGATTGAACATATCGCAAGCATGAGGAGGAACTATTT  
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+HWI-EAS443:3:33:1351:1192#0/1  
aaa`\_^b`ab\_a`a\_aaaa`\_aa`]]`aZ0^^]ZWW¥  
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+HWI-EAS443:3:33:1412:1706#0/1  
aaaaa]]]a`aaa\_a\_a\_\_a`\_`\_`^^^\_YSMY]X^WVY  
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aa^]aaaba]a\_\_S\_aaa^`a\_QZ`\_`a`\_a\_Va`\_U\_a  
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GGGGGCTATATGAAGCAATCGAGGAGTGCCTGATTAATGA  
+HWI-EAS443:3:33:1446:122#0/1  
abab`bbaabbabba\_aa`\_a\_a`\_aXa\_\_a¥U\_]Q]\_U  
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AGAGAAGATCCCAAGGACAAAGAACATGAAGAGAACAAGC  
+HWI-EAS443:3:33:1463:748#0/1  
aabaabaaaaaS^0^`¥^aa\_¥a\_¥a\_]a^V\_¥T¥RN¥S^a[

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\_aaaabaaaa]Xa`a^aaa]^YT¥\_^Z\_\_\_OW\_\_¥^VXX  
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ATGAAGACATTCTTTGGCTGGAAAGAGCCTAACATAGTCA  
+HWI-EAS443:3:33:1550:894#0/1  
abaaaba^abaaa`aaa\_aaa^`a\_\_^\_^\_]TKT^]WXX\_  
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ACCGTTCTCTTTGTAATCATACAAATCAGGAAGAAATTT  
+HWI-EAS443:3:33:1587:169#0/1  
\_\_\_\_\_`\_a\_`\_`a\_\_¥]\_aY`a\_]`^a]^`^NIVZ]ZZ^X  
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GGTGAATCAATAATTGTAGAATCTGGTGACCCGAATGCAC  
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AGGAGACATGCTCTTGAGGACTGCGATAGGCCAAGTGTCG  
+HWI-EAS443:3:33:15:627#0/1  
abb`babaaa``a`a\_\_a\_a```\_Z^\_^`\_W^\_USN\_\_  
@HWI-EAS443:3:33:188:1410#0/1  
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+HWI-EAS443:3:33:188:1410#0/1  
aaa`WZa`WaaYa\_aa\_^aaa\_\_a\_\_a\_]\_¥W\_^]X`\_  
@HWI-EAS443:3:33:277:794#0/1  
CAGCTTGCTAGAGATCTGGGCTCTGGCTCATCACTGTCAT  
+HWI-EAS443:3:33:277:794#0/1  
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+HWI-EAS443:3:33:368:1903#0/1  
ab``\_`[`ababa\_ababa\_\_\_\_\_YaZ`ZW\_a\_XRR]\_a\_¥¥  
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GGGGCTATATGAAGCAATCGAGGAGTGCCTGATTAATGAT  
+HWI-EAS443:3:33:509:1121#0/1  
aUaa`a`]^X`YPNaaJ]Y]¥K\_\_aU\_VX[TIV]\_]X\_V  
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+HWI-EAS443:3:33:520:244#0/1  
aaaaaaaa`aaa`aa`\_]\_a`\_\_`Y\_^[Q\_U¥^]¥¥WY  
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+HWI-EAS443:3:33:52:324#0/1  
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+HWI-EAS443:3:33:570:503#0/1  
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GATTGGCCATGTTTCCGATTTGTTTTCAAAGAATTCCTTG  
+HWI-EAS443:3:33:647:319#0/1  
`[^`^`^`\_U]aaXY¥^``\_\_\_]S[[]^VWYYST[¥V  
@HWI-EAS443:3:33:662:1005#0/1  
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+HWI-EAS443:3:33:662:1005#0/1  
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+HWI-EAS443:3:33:740:438#0/1  
a`aaa]b]aaaba\_ZaX`\_`\_^\_^^]U\_]XHJWZZXX]\_X  
@HWI-EAS443:3:33:742:1809#0/1  
AGCCCCCAAGATCGAAGGTTCCAGGTTCCAGGTTGTCCC  
+HWI-EAS443:3:33:742:1809#0/1  
a\_aaaaa`a\_`¥\_`^aZZWM^W\_`^VWQVWW^WUWUVSUWW  
@HWI-EAS443:3:33:748:1272#0/1  
TGAAAATGAAGAGAAGATCCCAAGGACAAAGAACATGAAG  
+HWI-EAS443:3:33:748:1272#0/1  
\_`¥[`\_`^Zaaaaa\_a^aa`a`\_a`0\_\_`]¥]S\_]\_`\_`  
@HWI-EAS443:3:33:778:1820#0/1  
GGGGTTTTCGGCTGAATCGAGAAAATTGCTTCTCATTGTT  
+HWI-EAS443:3:33:778:1820#0/1  
aaab¥`aaaaabaaba]`\_`^a^\_`^^`Y¥W]`^]\_`\_`  
@HWI-EAS443:3:33:803:1376#0/1  
AGTCAATTCACATGCCTTATTGAATTCATTTTGGACCCAG  
+HWI-EAS443:3:33:803:1376#0/1  
^`^b[\_\_\_[`a`X[Zaaa`\_\_¥Z`^aZ^`\_`\_]\_UU¥^^R]]  
@HWI-EAS443:3:33:826:1804#0/1  
GTCAATTCACATGCCTTATTGAATTCATTTTGGACCCAGC  
+HWI-EAS443:3:33:826:1804#0/1  
a`bbbbbababaabababaaaaaababaaa\_X`Y]^a\_\_  
@HWI-EAS443:3:33:857:970#0/1  
AGCAGGTGCTAGCAGAGCTACAGGACATTGAAAATGAAGA  
+HWI-EAS443:3:33:857:970#0/1  
aaaa\_a^^aaaa`\_`\_`a`a\_\_`^`V^^`\_`\_W]V]\_`^]]\_`  
@HWI-EAS443:3:33:861:1067#0/1  
CGTCTCCACAACCTGAGGGTTTTCGGCTGAATCGAGAAA  
+HWI-EAS443:3:33:861:1067#0/1  
a`T`Xa`\_`a]S\_aXM]¥FZG¥`\_`¥`X`^`PVDX[SWMXX  
@HWI-EAS443:3:33:882:108#0/1  
GGCATGGAAATGAGGCGCTGCCTTCTTCAGTCTTTCAGC  
+HWI-EAS443:3:33:882:108#0/1  
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@HWI-EAS443:3:33:888:107#0/1  
TATGTTAGGCTCTTTCCAGCCAAAGAATGTCTTCATGCAT  
+HWI-EAS443:3:33:888:107#0/1  
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@HWI-EAS443:3:33:892:1817#0/1  
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+HWI-EAS443:3:33:892:1817#0/1  
IRbU\_Y`]U\_bba\_^¥\_ba\_\_bbbaVZ]\_^a[YaLVa\_ab  
@HWI-EAS443:3:33:892:820#0/1  
GGGGGCTATATGAAGCAATCGAGGAGTGCCTGATTAATGA  
+HWI-EAS443:3:33:892:820#0/1  
a`aa`abbbabaaaabb`bab`\_a`aVa\_aaa^a\_a```a  
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GAATCATGGCCTGGACAGTGGTGAACAGTATATGTAACAC  
+HWI-EAS443:3:33:975:1607#0/1  
a`\_abbaaaaa`¥`\_\_a`\_]aY\_``^\_^a`[U\_N`\_U`S  
@HWI-EAS443:3:33:97:1689#0/1  
GGAGTCTATGGGATTCCTTTTCGTCAGTCCGAAAGAGGCGA  
+HWI-EAS443:3:33:97:1689#0/1  
]VaX`ba^\_aa\_aaaaa\_a^a\_W]]][Waa^WTY^\_^Z[[¥  
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ATTGGTTCTCACATATAGGAACATGGGCCTCGACACTTGG  
+HWI-EAS443:3:34:1029:732#0/1  
aaa`¥Q]a\_]a\_\_\_\_\_`\_`\_]`\_]\_QV^`Z¥YWUWYW¥YW  
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+HWI-EAS443:3:34:1040:806#0/1  
ab\_baabbab]aab]aaaaabaabaaaaaaa`]a\_`^^^^  
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CTCGATTGCTTCATATAGCCCCCAAGATCGAAGGTTCCA  
+HWI-EAS443:3:34:1102:1503#0/1  
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@HWI-EAS443:3:34:1120:1497#0/1  
GATTCTACAATTATTGATTCACCCCGTTCGTCGATGAAAT  
+HWI-EAS443:3:34:1120:1497#0/1  
aaaaaaaa\_a`aaaaaaaaaaa\_aaa\_\_`\_^a`]`\_Z]\_^^^Z  
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GACCGAATCATGGCCTGGACAGTGGTGAACAGTATATGTA  
+HWI-EAS443:3:34:1121:1777#0/1  
ababbaabababbbbbbbbaaba^aRa\_a`b[TVaa\_aHZ  
@HWI-EAS443:3:34:1181:237#0/1  
CTGGAAAGAGCCTAACATAGTCAAACCACATGAGAAAGGC  
+HWI-EAS443:3:34:1181:237#0/1  
abbbbbbb`bbbb^a\_aa`baabaaa¥aaaaa`a]^^\_^]  
@HWI-EAS443:3:34:1238:1017#0/1  
CATAATCAGGCACTCCTCGATTGCTTCATATAGCCCCC  
+HWI-EAS443:3:34:1238:1017#0/1  
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Y`baa`a^`baa^`XV^¥]]a`abWa`\_X^aa¥W]]BB  
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+HWI-EAS443:3:34:1281:1897#0/1  
Xaa]JR^^\_EXa\_aaa\_X]`aa¥` `aBBBBBBBBBBBBBBB  
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+HWI-EAS443:3:34:1288:442#0/1  
WTW\_TY\_¥X\_\_RW¥a^` `\_\_^aaa\_]¥\_^\_\_\_a` `WY¥B  
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CCTCCGTGTTACTCCAATTTCAATGAACCGTTCTCTTTG  
+HWI-EAS443:3:34:1319:1472#0/1  
`a^abYYa]ZV^^^YZa` `a\_^\_\_aa`ab]^Z¥YRTU^R  
@HWI-EAS443:3:34:1389:1171#0/1  
GCGTCTCCACAACCTTGAGGGGTTTTCGGCTGAATCGAGAA  
+HWI-EAS443:3:34:1389:1171#0/1  
]` [¥b^\_Wa[^Z^aabZbb` `UZ`a][a`aZ\_\_`XWMUSZ  
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AAGAAATTTAGGCTTCTCTACCCCTGTTGTGTACATATA  
+HWI-EAS443:3:34:1403:1171#0/1  
abbabVb` `\_ \_V¥aa`aa]ba` `^P]\_]a`a¥a[S\_BBBB  
@HWI-EAS443:3:34:1417:1497#0/1  
TGGCCATGTTTCCGATTTGTTTTCAAAGAATTCCTTGGTC  
+HWI-EAS443:3:34:1417:1497#0/1  
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@HWI-EAS443:3:34:1432:183#0/1  
GTTTCGTCGATGAAATGGAAATCCGAATACATGAAACAAAC  
+HWI-EAS443:3:34:1432:183#0/1  
aaaaaaaa\_abaaa`a`a\_\_` `a\_\_` `\_\_` `^` `[Y]^XW  
@HWI-EAS443:3:34:1461:918#0/1  
CCAAGGACAAAGAACATGAAGAGAACAAGCCAATTGAAGT  
+HWI-EAS443:3:34:1461:918#0/1  
\_UaabYLVT^ab` \_\_abaQ`aa^` ]\_\_aXUN]`U¥NSZB  
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GCTTGCTAGAGATCTGGGCTCTGGCTCATCACTGTCATAC  
+HWI-EAS443:3:34:1465:1843#0/1  
aaaaa`]^b\_a¥` ` `aa]a`\_aa[\_W\_\_\_`T\_\_ZWW\_¥B  
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AGCTTGAATCAGTCAATTCACATGCCTTATTGAATTCATT  
+HWI-EAS443:3:34:151:1255#0/1  
^]a\_[\_Sa^aaaZ` `^XVaa¥W]`Z`XW[S]TZX[UZWZ  
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+HWI-EAS443:3:34:1566:1624#0/1  
abbbbbbbbbbaabaaaaaaYaaa]^aa¥YBBBBBBBBBBB  
@HWI-EAS443:3:34:1591:898#0/1  
GGTGTCTCCTCAAGAATGGTTCAATTTTGGCGTTCACCT  
+HWI-EAS443:3:34:1591:898#0/1  
ab[b\_]a` `X` [¥[¥]aX0[Q\_\_ZS¥aa`WSOVQ¥UTNTZ  
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AGAGCCTAACATAGTCAAACCACATGAGAAAGGCATAAAT  
+HWI-EAS443:3:34:1609:567#0/1  
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+HWI-EAS443:3:34:1624:1913#0/1  
a`¥`aa\_^VWYU\_YV]]OF[^`^S¥VMVBBBBBBBBBB  
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CAATAATTGTAGAATCTGGTGACCCGAATGCACTATTGAA  
+HWI-EAS443:3:34:227:1520#0/1  
\_0¥a^a^`^b`\_aa\_\_¥aRWa]aa¥]\_]`\_Y`\_\_\_\_^]  
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+HWI-EAS443:3:34:252:2034#0/1  
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+HWI-EAS443:3:34:256:324#0/1  
aa[^POJ]]`aaa`[\_¥Z^\_[XTZ\_^XR[V]X\_WV]VVB  
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ATCTTGGGGGCTATATGAAGCAATCGAGGAGTGCCTGAT  
+HWI-EAS443:3:34:261:988#0/1  
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+HWI-EAS443:3:34:262:1565#0/1  
^W]`bab¥aZX^b`¥`¥aaa\_a\_]RR\_\_S\_`^aRY\_[R[  
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+HWI-EAS443:3:34:29:2023#0/1  
aabaa^^Y\_ZW\_\_\_\_^]]\_\_`aa`aZ]^]V¥0¥Z][U]  
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+HWI-EAS443:3:34:328:807#0/1  
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+HWI-EAS443:3:34:36:1853#0/1  
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+HWI-EAS443:3:34:402:549#0/1  
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+HWI-EAS443:3:34:589:108#0/1  
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+HWI-EAS443:3:34:606:918#0/1  
a\_`a`\_RY\_\_aaaaa`a\_a]\_\_a\_\_]^^\_]XYTV]SYVZ  
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+HWI-EAS443:3:34:656:1072#0/1  
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+HWI-EAS443:3:34:711:743#0/1  
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GGGGGCTATATGAAGCAATCGAGGAGTGCCTGATTAATGA  
+HWI-EAS443:3:34:744:1491#0/1  
aa\_a\_b\_aa```\_¥]\_aZ\_`[^YY]U[^ZZ[^^^\_]TU¥B  
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GGGGGCTATATGAAGCAATCGAGGAGTGCCTGATTAATGA  
+HWI-EAS443:3:34:846:1914#0/1  
`b^Xaa\_bba`aba`aaa\_aa\_\_\_\_`\_¥\_a`^a`W¥\_[U¥\_  
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GAGTCTATGGGATTCCTTTCGTCAGTCCGAAAGAGGCGAA  
+HWI-EAS443:3:34:859:476#0/1  
aab`abaaabaaaaaaabaaa[¥a`^`a`\_\_^]`\_R[^  
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+HWI-EAS443:3:34:876:982#0/1  
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+HWI-EAS443:3:34:908:686#0/1  
a\_\_\_\_`aaaaaaZ\_aaaaab``\_a`\_`\_\_`a]`\_\_V^][  
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CATGACCAAGGAATTCTTTGAAAACAAATCGGAAACATGG  
+HWI-EAS443:3:34:996:198#0/1  
^a[`bZ^V`a]ZZ]`Z`[^`a^^`^¥[[aaaa]\_]Z]^B  
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+HWI-EAS443:3:34:997:415#0/1  
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CAATAATTGTAGAATCTGGTGACCCGAATGCACTATTGAA  
+HWI-EAS443:3:34:998:858#0/1  
aa^baaab`aba`aaa`aZa\_a`a`````]\_Za\_a]]YW  
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aaaaa```aaaa]aa^`aa`^\_\_\_\_`\_a\_a`\_]`\_`Z`\_¥`

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]baaaa^`[aaa`a¥aaa[¥]\_\_\_^^\_PS]Z^Z^^YQYR^  
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GTTCGTCGATGAAATGGAAATCCGAATACATGAAACAAAC  
+HWI-EAS443:3:35:1056:881#0/1  
\_^aa][\_a`a^^]WZ¥a^`\_\_`\_`[\_Y[`]T¥^^R¥`  
@HWI-EAS443:3:35:1094:344#0/1  
TTTAGAGCCTATGTAGATGGATTCGAGCCGAACGGCTGCA  
+HWI-EAS443:3:35:1094:344#0/1  
abbaaaaaaaaabb¥aaaaaaaaaaa`a¥`a\_`\_a^^¥]PZ  
@HWI-EAS443:3:35:1121:1562#0/1  
GAACTATGCGCAAGCTTGCCGACCAAAGTCTCCCACCGAA  
+HWI-EAS443:3:35:1121:1562#0/1  
\_\_¥^\_bZSab`aa^^¥]^Y`[`aX` `a`[aa^)`X^[a)`  
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AAACCCCTCAAGTTGTGGAGACGCATATAGACTGTTGAAT  
+HWI-EAS443:3:35:1136:1074#0/1  
aa`\_]aaZa^]b^ab^aaaa`]a]^\_`^¥^\_`^\_Z]PZWN  
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ACCCCTCAAGTTGTGGAGACGCATATAGACTGTTGAATAC  
+HWI-EAS443:3:35:1159:1132#0/1  
aaa`a`aa\_X¥aaXa\_aa\_\_\_\_\_`[\_TU` `aaR^RWYWUZ  
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+HWI-EAS443:3:35:1248:481#0/1  
a\_aa]`UR`bba\_\_aab`ab^\_aaaa\_Y^\_\_`]aa^P[^  
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+HWI-EAS443:3:35:1273:879#0/1  
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+HWI-EAS443:3:35:1330:803#0/1  
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+HWI-EAS443:3:35:1382:1307#0/1  
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+HWI-EAS443:3:35:1382:808#0/1  
]UT[]`W]^\_bba]a\_YWQUPZTHZXT¥]\_H\_\_UXX[^F^  
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+HWI-EAS443:3:35:1402:124#0/1  
`Z]UZaZUSZTW\_YDS¥Y¥Ua¥aaa`\_Q`\_\_^^^]T¥[R  
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+HWI-EAS443:3:35:1409:512#0/1  
¥`VRH0aa\_ab``¥WTbV`¥aNaXQNOJSRKUF^PX¥Wx  
@HWI-EAS443:3:35:1454:912#0/1  
AAGCAGGTGCTAGCAGAGCTACAGGACATTGAAAATGAAG  
+HWI-EAS443:3:35:1454:912#0/1  
\_\_`^`^P[¥^`a^\_\_X\_\_a`\_a\_a`a[aa\_V¥\_¥`^\_Ta  
@HWI-EAS443:3:35:1523:852#0/1  
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+HWI-EAS443:3:35:1523:852#0/1  
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CTTGACGAAGAGAGCAGGGCAAGAATCAAACACTAGGCTTT  
+HWI-EAS443:3:35:1639:1610#0/1  
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+HWI-EAS443:3:35:1661:1525#0/1  
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+HWI-EAS443:3:35:1701:589#0/1  
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+HWI-EAS443:3:35:1707:274#0/1  
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+HWI-EAS443:3:35:268:1437#0/1  
`aa`a\_¥P\_Sbaaa`\_`abZNXa\_YXX^][[¥`Y`\_a][V  
@HWI-EAS443:3:35:312:2023#0/1  
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+HWI-EAS443:3:35:312:2023#0/1  
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@HWI-EAS443:3:35:347:1557#0/1  
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+HWI-EAS443:3:35:347:1557#0/1  
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@HWI-EAS443:3:35:412:1430#0/1  
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+HWI-EAS443:3:35:412:1430#0/1  
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@HWI-EAS443:3:35:439:520#0/1  
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+HWI-EAS443:3:35:439:520#0/1  
abb\_aaaaaaababaaaaa`a`a`a`a`\_a¥\_\_a^a`a`a`[`

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+HWI-EAS443:3:35:446:2030#0/1  
¥`U`[\_a¥a\_W]^SY`b^baYPF]a`\_¥bbaWa`]Z]^X  
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+HWI-EAS443:3:35:461:1393#0/1  
a]a`a`\_^b`a`aa\_aaaZZ^U^^`]\_\_VJSb`\_`a[I¥W  
@HWI-EAS443:3:35:470:501#0/1  
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+HWI-EAS443:3:35:470:501#0/1  
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+HWI-EAS443:3:35:517:475#0/1  
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+HWI-EAS443:3:35:623:728#0/1  
aa`[DX`\_]`\_]0U[Za^`^Y\_\_UZ\_LT\_\_Y^UV\_^\_^U  
@HWI-EAS443:3:35:639:418#0/1  
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+HWI-EAS443:3:35:639:418#0/1  
aaaa]a`^\_¥aa`\_aaa\_\_aa`a`^\_^W^^\_a``]US[\_  
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GGTGAACCTTTGTAAGTATGGAGTTCTCACTCACTGACCCG  
+HWI-EAS443:3:35:710:133#0/1  
a\_U\_aaaa\_aa¥\_\_aT`\_`\_\_\_\_¥^\_\_\_\_¥\_¥\_\_\_\_¥^`¥\_Y^  
@HWI-EAS443:3:35:72:514#0/1  
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+HWI-EAS443:3:35:72:514#0/1  
[\_L`aa`a^[Raaaa[]aa\_a`aa\_a\_]U]P\_\_Z`^`a¥  
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GGGCATGGAAATGAGGCGCTGCCTTCTTCAGTCTCTTCA  
+HWI-EAS443:3:35:73:214#0/1  
a`\_\_a`\_`\_`[\_`\_\_Z\_\_\_\_\_`\_\_\_\_\_¥¥^¥VZO¥WYY^¥W[T  
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+HWI-EAS443:3:35:747:1000#0/1  
\_^\_VZ\_abaaba\_]aaaa^`abaaaa`aba\_\_`\_\_`\_\_X  
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+HWI-EAS443:3:35:786:2030#0/1  
]S[ba`b`\_Y``\_b^YI^\_aabV¥][U\_X^aa`[¥`XVT`  
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+HWI-EAS443:3:35:814:1323#0/1  
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+HWI-EAS443:3:35:822:1337#0/1  
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ab_I]aabaaab]bab`a]a]a^¥b`aa_a^`a__a``_`^`
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_aaabbbba]abaaaaaba^`_aaaaaZ`Z`a`a_Y__^Z
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@HWI-EAS443:3:35:96:59#0/1
GGGCACTCGGTGAAAATATGGCACCAGAAAAAGTAGACTT
+HWI-EAS443:3:35:96:59#0/1
abaaa_]a`V````_``_`a_]Y___^RWPZ_U`__Z_Z
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+HWI-EAS443:3:36:103:1921#0/1
X`aa`]JVaxa`SS[`a_Xa_PVX[`ax0¥]EY`WZ¥PTI
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TCCGATTTGTTTTCAAAGAATTCCTTGGTCATGTCTTTCT
+HWI-EAS443:3:36:1079:1404#0/1
`ab_X_a`_aa^Z_aa```aaaaa``_¥_Y_aZa`^a``
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+HWI-EAS443:3:36:1098:510#0/1
W^_b`]]`Wa^¥P¥TF]WZa^]]`a__V__[TV[_XP¥YV
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+HWI-EAS443:3:36:1138:1428#0/1
aaaa``^ba`aaabbaaaa^aaaaaab`aa__`_a`aaaa
@HWI-EAS443:3:36:1172:559#0/1
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+HWI-EAS443:3:36:1172:559#0/1
^aabbb_]_``__`_aa¥`a`_¥a`aa_]Sa¥^````a_]a

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+HWI-EAS443:3:36:1181:1410#0/1
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@HWI-EAS443:3:36:1207:288#0/1
GTGAATCAATAATTGTAGAATCTGGTGACCCGAATGCACT
+HWI-EAS443:3:36:1207:288#0/1
aab^aaba^aa`aab^ab`_a`_a`_]`_^``__^__a_Y_
@HWI-EAS443:3:36:1294:905#0/1
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+HWI-EAS443:3:36:1294:905#0/1
a[aa]`_]`IZa]]`a`ba`_a^__a``]`[YZUSYW__YO
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+HWI-EAS443:3:36:1326:1256#0/1
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+HWI-EAS443:3:36:1393:1840#0/1
`a`_`b`ba`abaa^abaaaa]aa`aa^aa^W__`_]_Ra
@HWI-EAS443:3:36:1414:752#0/1
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+HWI-EAS443:3:36:1414:752#0/1
Q^¥_^`_a__WX_ba¥_¥¥babb¥]Z¥Z_W_Q^abbbb]`
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CTTGGGATCTTCTCTTCATTTTCAATGTCCTGTAGCTCTG
+HWI-EAS443:3:36:1418:619#0/1
`U¥ZWWP`][aa[[Y`_`__aaZ¥^_Y[Z]_YQ_¥`b]¥W
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+HWI-EAS443:3:36:1428:688#0/1
`ababbbbbbbbaaabba_aaaabaaa_aaa]^`¥U_a]a
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+HWI-EAS443:3:36:1467:34#0/1
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+HWI-EAS443:3:36:1477:84#0/1
aaSS_^b]bY[HWX_]_ZXZ_Y]]¥_Q][`XY]¥ZTV¥XI
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+HWI-EAS443:3:36:153:1838#0/1
V__VZ¥^_Ub`a`a`ZKWaa`abbabbbba_^aabXL_S
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+HWI-EAS443:3:36:1553:1340#0/1
a`_`_`aab^^`_ZV]]aa_a_Y`_`__`_]YR]L[R_S[_]
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+HWI-EAS443:3:36:1555:341#0/1
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+HWI-EAS443:3:36:1560:1039#0/1
¥`U`a`¥b`Y`_YWVZ_a^`abZPWa`RNLT YVRZ_ba_`
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+HWI-EAS443:3:36:1573:653#0/1
abb¥Z_a`_]_Q`a``[aa^`a¥abaXZ]_TVJ¥]ba]`
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+HWI-EAS443:3:36:1674:1754#0/1
aaaa[Xb[b_^_YPX_a^SG[MPQJYWZ[SQGUTNYLL]
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+HWI-EAS443:3:36:1684:1216#0/1
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+HWI-EAS443:3:36:1788:1165#0/1
aabababbbb_aaaa`aaaa_aa]Zaa_`¥`^a``[aa_a
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+HWI-EAS443:3:36:195:1252#0/1
a`[bb_a_S^a^aa`_a]`a`X^TUROMY^YP]^_S
@HWI-EAS443:3:36:277:1049#0/1
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+HWI-EAS443:3:36:277:1049#0/1
a`¥aNW_Q¥^]OSRaaXT[]_WUJL^ZMLUWV¥]NFXQQ
@HWI-EAS443:3:36:289:787#0/1
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+HWI-EAS443:3:36:289:787#0/1
abbaa^Wba_aa`_abb]aabba¥`a`b`a`aaaa`^a_
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+HWI-EAS443:3:36:358:1678#0/1
aW_bbbbabaaabaaaUaab_ab¥UU[`[_aaaaab`a^_
@HWI-EAS443:3:36:38:1207#0/1
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+HWI-EAS443:3:36:38:1207#0/1
a`baaaa`a`a`a_Va`aa`a[[^aa¥_a`_`^`_]__`
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+HWI-EAS443:3:36:39:1437#0/1
ababbbbaaaa`a`]T[a¥`_[HRZN]`aPY¥T_¥RW`
@HWI-EAS443:3:36:45:1079#0/1
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+HWI-EAS443:3:36:45:1079#0/1
abaaaa_ab`_aYaa_a¥a`_`_`a^____]aa_¥W____^

@HWI-EAS443:3:36:499:259#0/1
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+HWI-EAS443:3:36:499:259#0/1
a`X^R]]¥¥`a0`[Y^`____[¥____Za_`_]`^¥a^]__]]
@HWI-EAS443:3:36:519:1556#0/1
CTTCATGTTCTTTGTCCTTGGGATCTTCTCTTCATTTTCA
+HWI-EAS443:3:36:519:1556#0/1
a_b_W¥`TZa_YZT[ba¥V_¥MH[¥aP]_a`aa^Sa]]¥]
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GAACTTCTCCAGCCTTGAAAACCTTAGAGCCTATGTAGAT
+HWI-EAS443:3:36:51:1453#0/1
a`^a`ababbaabaa`aaXS_ba`aa`_`a`aaZ[]__
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+HWI-EAS443:3:36:525:964#0/1
abba`]abbbabaaaba`aaaaaaaa`aa`aa`_a```[a
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+HWI-EAS443:3:36:530:1273#0/1
[`SXTY__`^_X¥^¥^¥YY`R_`R[a`]XT_VJ¥S¥W_
@HWI-EAS443:3:36:544:1584#0/1
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+HWI-EAS443:3:36:544:1584#0/1
a^ababaa_`¥a^a`__Z[QU^`^^[QS^ZPPSUWPHM¥^
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abbababbabaabbbbb`aabaaaa`^^aa``_aa`^a_
@HWI-EAS443:3:36:57:821#0/1
GTCCTGCACACTTTCCCAATAGAGCCTTCCCTCCACTCCCC
+HWI-EAS443:3:36:57:821#0/1
a`bb`_baaZaaaaaa]YZ_]^^`a`a`a`__XZ```¥^
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+HWI-EAS443:3:36:66:1436#0/1
abbaa`]ab^aaaaaa]a[_a`aa__`a`_`^_¥V_^_¥R
@HWI-EAS443:3:36:71:637#0/1
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+HWI-EAS443:3:36:71:637#0/1
_Z]]^`a`P_aaa`aaa_`a__a`^¥][¥a^_``_VW]O
@HWI-EAS443:3:36:783:1547#0/1
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+HWI-EAS443:3:36:783:1547#0/1
aWTVW`V¥__ZUZY_¥XNNVURVT_U¥VZYHG]UTUNSUL
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+HWI-EAS443:3:36:784:642#0/1
aa_¥_baaabba`aabaa`aaa`a]^`_`^`_`]]__
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CTACTGAATACATAATGAAGGGAGTGACATAAATACGGC
+HWI-EAS443:3:36:906:147#0/1
a_]Za]ZWa_R^YXT`NY__ZZ_X`]^_¥WTVXa_]X_
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+HWI-EAS443:3:36:909:408#0/1
a`]aQXaRIOYLWaT_[TSFMXR_[H[V_TYL][SOJ^NN
@HWI-EAS443:3:36:924:1798#0/1
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+HWI-EAS443:3:36:924:1798#0/1
aaa][aabbba_``X`__¥`aa`__````_]`^Y]_`^¥W
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+HWI-EAS443:3:36:952:1002#0/1
a]`^[a`bbba]¥Qaaaa]_¥]a`a_``a^[X^^V_[\`
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+HWI-EAS443:3:36:960:760#0/1
`_b_]a__a`aU]`Y_XUY¥__YX¥Y`G[U_U¥¥ZVZ`X
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+HWI-EAS443:3:37:1033:162#0/1
aba_`b]]b^WZ]a_aa_aa[]a`]_]XZO[____]NUULT
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+HWI-EAS443:3:37:1065:961#0/1
ab¥_Z_bbb^_T`aab`aa^a`[^`_`aQN]V^`^`WaZ
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+HWI-EAS443:3:37:1113:1273#0/1
aa`aabaababaababbaa_aba`ba`_aU_a_aa__a`Y
@HWI-EAS443:3:37:1149:1181#0/1
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+HWI-EAS443:3:37:1149:1181#0/1
ab_]baababa`¥b`_ba]a^b^aa_SbM`^[\`aa``a`
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+HWI-EAS443:3:37:1198:914#0/1
aba`aaabZa`_ab]]][a`a`aaUaaaaXDX`aa``a`^_
@HWI-EAS443:3:37:11:699#0/1
CAACAAAATAAAATCTGAGAAGACACACATTCACATCTTT
+HWI-EAS443:3:37:11:699#0/1
`V]aa`^aaa_V[_aa`V^^[aZ¥]aa¥V`Wa_a____`]a

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abb`aababa`abaababaaaaab^abS_`a_aa_aaY
@HWI-EAS443:3:37:1250:122#0/1
GGGGGCTATATGAAGCAATCGAGGAGTGCCTGATTAATGA
+HWI-EAS443:3:37:1250:122#0/1
abaaaabaaaaaaaa`aa_a_aa_a^aaN_____`[a``^
@HWI-EAS443:3:37:1279:1449#0/1
AGCAAACCTGTTAGTTTTCGATTTTCGGATCTTCCCCATAT
+HWI-EAS443:3:37:1279:1449#0/1
^``^ab^YYa`_Rba^]W``aa^^0JSDZ^^`_^]X]
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+HWI-EAS443:3:37:127:502#0/1
aaXaa_a_XV]a`a`^`a_]¥¥`_`^^^S[_ZHU]TXXV_
@HWI-EAS443:3:37:130:708#0/1
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a`^¥_aa]`^`aZa__`__a_[_aaZ_W__WPYWW¥ULX]
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GGGGCATGGAAATGAGGCGCTGCCTTCTTCAGTCTCTTCA
+HWI-EAS443:3:37:1340:321#0/1
aa`[_`aa_¥`_aYa¥__W^`^¥¥_V`¥PS]ZZ^¥¥XWV
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+HWI-EAS443:3:37:1349:997#0/1
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+HWI-EAS443:3:37:1365:1570#0/1
a__¥]__ab`_`a^Za]b``]^`_Z`_WaN]]][[]^`a^X
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+HWI-EAS443:3:37:1376:1026#0/1
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+HWI-EAS443:3:37:1393:981#0/1
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]a]¥_a`Y`a]]_^^T^]¥aU_a^Waa¥[R`Xb_aa_a^Q
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+HWI-EAS443:3:37:1462:1399#0/1
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_ba^ababbbb`baaaaaaaaaaaaa`¥I¥^aaa`Zaa`
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+HWI-EAS443:3:37:1551:964#0/1
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+HWI-EAS443:3:37:1601:913#0/1
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+HWI-EAS443:3:37:1662:339#0/1
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¥¥¥`aaXI`__a]]_Ya]aaa]a`^¥^¥a^`aa¥_]_V`Z
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+HWI-EAS443:3:37:208:32#0/1
abaaaaaaaa[b_baaaaa`a_aaa_a]Z_^_H^`_`_`
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+HWI-EAS443:3:37:20:1397#0/1
a]]`aabbbba_`Yaaa¥)`[a`ZY]]XV_aXXZ_aZ^]
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a`]]`^aZ__¥WQ[^baaaXU]`_`Ya_a]T]^S`a_^]Y
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+HWI-EAS443:3:37:251:265#0/1
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T¥^aX]]aa^a_J]_Y`a`[a¥^_ba_FXb^aaabab_
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+HWI-EAS443:3:37:306:33#0/1
abaa]aaa`aa__`_]^`[_]_]^^[XTUT_U]X]TW
@HWI-EAS443:3:37:370:751#0/1
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+HWI-EAS443:3:37:370:751#0/1
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+HWI-EAS443:3:37:391:1130#0/1
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ab¥a_U_aa[[^V_]Ta_]aaaaaaaa_]Wa_^aa^Z`¥
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+HWI-EAS443:3:37:447:571#0/1
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a`aaaaaaaa`_a`b_aabaaba__`a^]¥]X¥aa`__
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+HWI-EAS443:3:37:583:1912#0/1
R¥I[baaaabbbbbbbba`[_`bbb`^`abaZZS[^X``ba
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+HWI-EAS443:3:37:611:135#0/1
ab`^Zaa^a[V_V``]_]_¥_] [XSZ] [_XX]Y^^XY]YX
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AAGAGACCGAATCATGGCCTGGACAGTGGTGAACAGTATA
+HWI-EAS443:3:37:696:1113#0/1
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TAATCAGGCACTCCTCGATTGCTTCATATAGCCCCCAAG
+HWI-EAS443:3:37:716:842#0/1
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+HWI-EAS443:3:37:754:561#0/1  
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+HWI-EAS443:3:37:757:444#0/1  
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+HWI-EAS443:3:37:762:366#0/1  
X`ZX¥¥a\_\_ba`^`^`a]a]¥\_]` [] [ZXY\_I\_Z]]`^^`  
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ab`bbbbbaaaa`a`a\_]`UH^`X[\_`S\_`Z^[][\_[\_  
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+HWI-EAS443:3:37:852:2015#0/1  
aba```\_b\_aaa`Zaa^aa\_```¥\_\_`OMU`^a`\_\_^\_a  
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CTTGGTCATGTCTTTCTCTTTGACAGAAGACTCGGCCTCA  
+HWI-EAS443:3:37:903:1682#0/1  
\_ba^ [J¥a]a`a`^ [aaa`a`\_a`\_aa^Xa\_a\_]V]Y\_^  
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+HWI-EAS443:3:37:962:1151#0/1  
U^`T\_[bbb`Ua\_^`\_b\_Z\_]Y^¥a^` [b]ZTG\_]GXMFA  
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+HWI-EAS443:3:37:998:1573#0/1  
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a[^WRaaa[¥`^^U\_]VUXU]¥OYY][SVLQWUUPW^UXU



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\_SUZa\_¥a\_\_¥UZaa¥]]`ba`[`abXZLTUV¥PNYP^P  
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\_^b^^\_b\_bbaaaa^¥`aa`^`^`\_\_S\_`a]aa¥aa`¥`^  
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a][\_]b¥`bbaaaba`a^aa`\_ZX\_`^]]¥¥¥ZZ\_[\_]U  
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+HWI-EAS443:3:38:1468:381#0/1  
abb`¥\_\_aab\_aWRY]]`ZWYR\_]\_\_`VOSO]WNW¥]WUS  
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+HWI-EAS443:3:38:1556:99#0/1  
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+HWI-EAS443:3:38:1574:1291#0/1  
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+HWI-EAS443:3:38:183:664#0/1  
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+HWI-EAS443:3:38:18:1382#0/1  
^aa`^`aa]`^^`\_aa`\_[^`a`a`a\_b\_a`^`a^\_U\_]  
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GTCCTTGGGATCTTCTTTCATTTTCAATGTCCTGTAGCT  
+HWI-EAS443:3:38:190:1927#0/1  
a\_a]`Pa¥XSU¥aa`a`\_`[\_\_\_\_\_[X¥LMRV¥P^XX`\_`  
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aaa\_]a\_]abb`aaaaaaaaa]a\_¥a]¥U¥ZYSS\_]U]  
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TGAAATTGGAGTAACACGGAGGGAAGTCCACATATATTAC  
+HWI-EAS443:3:38:263:1095#0/1  
aabaa`aa^aa[abaaa[```\_^`R\_X\_a^Z`\_\_``^¥^X  
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+HWI-EAS443:3:38:319:1777#0/1  
a`\_`aa`aa]\_\_`aaa`\_^`\_`\_[YWX\_^]P\_]\_\_\_\_]`[  
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+HWI-EAS443:3:38:356:704#0/1  
aa[aaa`a\_a\_\_a`a\_a\_`X\_\_[^`^^\_]\_][]]X\_UX

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^`bbba^^a^Z\_aaaa]a\_a]Waa\_`]\_]\_\_`\_a[[]^a`V  
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+HWI-EAS443:3:38:458:861#0/1  
a\_bbbaaabaaa\_`baaaabaaba`\_]`aa\_\_\_\_]a\_\_\_\_a^\_  
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+HWI-EAS443:3:38:462:190#0/1  
aaba\_ZZa]`Z^^a^a`]T^¥U^aYVQ[\_]`^\_\_a\_X[^]  
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+HWI-EAS443:3:38:483:302#0/1  
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+HWI-EAS443:3:38:500:1017#0/1  
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+HWI-EAS443:3:38:582:266#0/1  
a`\_a\_a`\_]Z`¥`^a`]`\_\_a^`\_a\_\_\_\_]YXV\_] [[S[MU  
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+HWI-EAS443:3:38:60:95#0/1  
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+HWI-EAS443:3:38:623:142#0/1  
^W¥^\_`\_]^[W`^aaa¥aY^¥0¥a`a\_a]ZY\_VaZa\_\_X  
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+HWI-EAS443:3:38:658:1133#0/1  
]a`Y]a]\_a`a\_\_\_\_a`\_`^aaaa`\_`Y\_`\_Y^]\_\_\_\_`\_\_^  
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aZaa\_`^`¥`¥`\_`^aa\_aa\_Y\_`\_WRW¥I[U[Y\_^^\_^YW  
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+HWI-EAS443:3:38:679:1747#0/1  
W¥\_VU`\_]Y^Z\_]`b¥Y\_¥\_`^\_\_\_\_^Z\_\_adW`V`^`a]a\_  
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+HWI-EAS443:3:38:902:63#0/1  
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+HWI-EAS443:3:38:913:1228#0/1  
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+HWI-EAS443:3:39:102:1082#0/1  
`]`a`\_`aa`\_\_aaa`a¥^^\_a]P`\_^`\_]`^`^^\_[Y

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a\_ab¥baaaaaabaaa\_``\_aa\_aa^a][^W¥\_a¥\_\_^Q  
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+HWI-EAS443:3:39:1063:498#0/1  
aaa\_b¥^a^`a\_aa`aaaa`aa\_¥a`a``\_¥\_aZ\_``]  
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a`a`Z¥U\_\_]^`aaa\_`a^^``a`][a`U^\_a¥X[NX  
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+HWI-EAS443:3:39:1190:206#0/1  
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+HWI-EAS443:3:39:1422:601#0/1  
ab`aa`b\_baabbbbabaa`\_aWVa^Va`a`¥\_Xa[aV^]  
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+HWI-EAS443:3:39:144:1754#0/1  
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+HWI-EAS443:3:39:1463:1715#0/1  
[\_Z``a^YVa]0^T\_`W^\_]0]^ [ZVZ]XVFR¥[ `[U]RT  
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+HWI-EAS443:3:39:1499:167#0/1  
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a¥aa` ]^aa\_]a]Z\_`\_¥Z\_¥\_]Z]\_`^¥^]TLTZ\_`^XX]Z  
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+HWI-EAS443:3:39:156:195#0/1  
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+HWI-EAS443:3:39:168:123#0/1  
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\_`aaa]aa\_a`a[`aa`aZ^\_\_^]\_a\_aa`YQUZ^W]]VR  
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+HWI-EAS443:3:39:228:347#0/1  
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+HWI-EAS443:3:39:228:939#0/1  
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+HWI-EAS443:3:39:303:962#0/1  
^WX`X)`ba\_Q]baa)`a^^`\_¥Z\_H^][b`[¥PIZaa[X  
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+HWI-EAS443:3:39:367:384#0/1  
a`baaa\_abaaaaaaa`aaa\_`a`a^a``\_`a\_\_^`\_a\_  
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+HWI-EAS443:3:39:367:461#0/1  
a¥aTQ¥`abaaaa^¥P]]aa\_\_a\_\_\_\_\_]^`[\_XFS\_YZ`]  
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aa\_ab\_aaa^`aa\_aa`a\_a`a\_`\_]¥\_a\_\_N¥\_`aT`VW  
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+HWI-EAS443:3:39:448:859#0/1  
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\_b¥\_\_bbaa`bbVaa`aba\_^[aaYa[\_\_YUN[Za¥\_U\_¥  
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+HWI-EAS443:3:39:608:1626#0/1  
¥\_¥`U\_Z\_b[Wb`[aSQab`aa\_aa``aba^¥[aa\_X^]]  
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+HWI-EAS443:3:39:697:479#0/1  
ab`aabababb`b`Ubaaaa^aa`aaa\_a\_ZU^`aa`\_]\_  
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+HWI-EAS443:3:39:710:1299#0/1  
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abb\_abb`aabaaaabbaaaa\_\_aaa\_babaaa\_baa^\_\_  
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+HWI-EAS443:3:39:933:1251#0/1  
`a`\_\_^`¥`bbb\_[]\_\_`^^`[IX`Z]`BBBBBBBBBBB  
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GGTGAACCTTTGTAAGTATGGAGTTCTCACTCACTGACCCG  
+HWI-EAS443:3:3:1026:220#0/1  
aa]a`\_\_a`aaY\_^X\_``^^`^^U^X^X^Y^X^\_YYYYX



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a\_XY`RSYGXW`\_XT[US]]`Z]]ZQ`XU^¥\_XW]Z]YXU  
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TTCCTCCACTCCCCTGGGTGACTCTCCGATTGGCCATGTT  
+HWI-EAS443:3:3:1102:1815#0/1  
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+HWI-EAS443:3:3:1256:1254#0/1  
a\_aVOYWTa[b[\_a\_a`b`bb¥a\_`\_`\_\_^\_aaKa\_aT a^  
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aa\_``\_a^```^^\_Y[^]^¥\_^^`ZZ[^]^Y]]][W[  
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+HWI-EAS443:3:3:1699:336#0/1  
ab`\_a`a\_aa`\_aa`Zaa]]Z\_\_^`\_`Z[Z\_^¥]^X\_Z  
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+HWI-EAS443:3:3:1721:514#0/1  
`\_b`b\_aaaaaa\_]Za\_a`\_W\_]¥\_a]X`a[]Y]]VBB  
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+HWI-EAS443:3:3:221:99#0/1  
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]¥^T¥]¥¥\_abb\_[[X¥\_\_Ua`b`b`bX]aab¥`ba¥MY  
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+HWI-EAS443:3:3:439:1015#0/1  
aa`Z¥¥baV[ab¥baaab\_aaaaba`aa]\_baabba`a¥a  
@HWI-EAS443:3:3:484:1755#0/1  
CAGGCACTCCTCGATTGCTTCATATAGCCCCCAAGATCG  
+HWI-EAS443:3:3:484:1755#0/1  
aaab`ba`\_N`^`b]Zb`\_b¥`a`^a\_VQXHG]\_¥aZBBB  
@HWI-EAS443:3:3:538:233#0/1  
GGGGTTTTCGGCTGAATCGAGAAAATTGCTTCTCATTGTT  
+HWI-EAS443:3:3:538:233#0/1  
ababV\_a[Zaa^a\_\_¥\_aX`]\_\_]V]^`^Y\_Y¥]]XY\_YY  
@HWI-EAS443:3:3:599:69#0/1  
AGGGAATACCACTATATGATGCAATCAAATGCATGAAGAC  
+HWI-EAS443:3:3:599:69#0/1  
^baab^aaaaaH`^baaa`b^aa`a`a`a]a^`aa`aa^G  
@HWI-EAS443:3:3:609:181#0/1  
GAAGATCCCAAGGACAAAGAACATGAAGAGAACAAGCCAA  
+HWI-EAS443:3:3:609:181#0/1  
aaa]]^`\_a`^aa^^\_\_b]\_]\_`^^a\_`^Z`^`[V^^  
@HWI-EAS443:3:3:62:590#0/1  
ATGGCTTGGAAGCAGGTGCTAGCAGAGCTACAGGACATTG  
+HWI-EAS443:3:3:62:590#0/1  
`Ya`a\_aZJV\_KXT\_\_UNRUQNLQXXUGVXTRXYNUBBB  
@HWI-EAS443:3:3:684:1732#0/1  
GCATAGTTCTGTAATCTCAAATTTTTCTTCAATTGTCTC  
+HWI-EAS443:3:3:684:1732#0/1  
```Xa`a`\_a\_S\_aI^WTO]¥\_\_\_\_\_X`\_\_W¥]\_`YXLXKI¥Z

@HWI-EAS443:3:3:689:1198#0/1
CTGCAAAGATGTTGGAGACCTTAAACAGTATGACAGTGAT
+HWI-EAS443:3:3:689:1198#0/1
abbbb¥aabb]_ab`aa^aaabbaabYbaaaa`b^a`
@HWI-EAS443:3:3:700:749#0/1
ATCAGCAGGAACCTTTGACCGCTGATGGCAAAGAGGCCCAT
+HWI-EAS443:3:3:700:749#0/1
a_TaaaZbbZaV_]_J`ab^¥_]¥[aWU^_¥`Q`aPGF^]
@HWI-EAS443:3:3:709:1385#0/1
TACCCCTGTTGTGTACATATACTGTTCAACTGTCCAG
+HWI-EAS443:3:3:709:1385#0/1
aa_Yb^abaabY`a¥aaba^aaa_0a`[a_a_¥L]a`
@HWI-EAS443:3:3:724:673#0/1
CATGTTTCCGATTTGTTTTCAAAGAATTCCTTGGTCATGT
+HWI-EAS443:3:3:724:673#0/1
P[a`¥bb`aaa`b^bb^`bbbbb¥ab`V`aa``]aaab`
@HWI-EAS443:3:3:734:652#0/1
GGCCAAGTGTGAGGCCCATGTTCCCTATATGTGAGAACCA
+HWI-EAS443:3:3:734:652#0/1
a`a^X^a_a^`_]WV[a_ZR_WT¥`__¥_Y_^`¥^WG_
@HWI-EAS443:3:3:73:1857#0/1
ACCGAACTTCTCCAGCCTTGAAAACCTTAGAGCCTATGTA
+HWI-EAS443:3:3:73:1857#0/1
a`_^aaaaaa_aa_[aa_aa__R__`aW^_^]_`__W^
@HWI-EAS443:3:3:903:1577#0/1
GGCCAATCGGAGAGTCACCCAGGGAGTGGAGGAAGGCTC
+HWI-EAS443:3:3:903:1577#0/1
`a`Z]XXP[YM]^¥Z¥^Y¥Z]X¥¥S`K^ZN`TVPBBBBB
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+HWI-EAS443:3:3:958:704#0/1
abaa_^ba_`bab`¥_^bba`aab_b^abb[ZNa`____B
@HWI-EAS443:3:40:1066:761#0/1
ACCACTATATGATGCAATCAAATGCATGAAGACATTCTTT
+HWI-EAS443:3:40:1066:761#0/1
aaaa`bababa_ab`a`a`aaaa_a^P]``^Z`^a_^_
@HWI-EAS443:3:40:1070:1521#0/1
CTGGACAGTGGTGAACAGTATATGTAACACAACAGGGGTA
+HWI-EAS443:3:40:1070:1521#0/1
_`¥aabb```Z¥]`ab]a__¥a¥Y_RXWX``_ba¥_¥^]
@HWI-EAS443:3:40:1072:444#0/1
CAAGGACAAAGAACATGAAGAGAACAAGCCAATTGAAGTG
+HWI-EAS443:3:40:1072:444#0/1
abbbbbbbabbaabaaaaa`Ya__`_aUa`_aZ_
@HWI-EAS443:3:40:1077:1961#0/1
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+HWI-EAS443:3:40:1077:1961#0/1
`ab_aba_aaab]baa_a^ba````_Q_^`^aa__Ya_
@HWI-EAS443:3:40:1184:788#0/1
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+HWI-EAS443:3:40:1184:788#0/1
I[_a`aa^¥a[abb[]a^_`aaaaa`__`¥_____^bba¥
@HWI-EAS443:3:40:1230:407#0/1
ATGGCCAGTAGGAGTCTATGGGATTCCCTTCGTCAGTCCG
+HWI-EAS443:3:40:1230:407#0/1
abbb``a[^aa_a[^aa`ba`^_`R`^aVXZ`]_]Y__
@HWI-EAS443:3:40:1261:1601#0/1
AAATACGGCCTTGCTCAATGCATCCTGTGCAGCCATGGAT
+HWI-EAS443:3:40:1261:1601#0/1
^bbababaaa`a^a[_`a^`ba_`¥^W]`_`aa`^`_Z[
@HWI-EAS443:3:40:1288:92#0/1
ACCGATTTGAGATAATTGAAGGAAGAGACCGAATCATGGC
+HWI-EAS443:3:40:1288:92#0/1
a_abaaaaa`b_aaaaaa_aa_`^]]W]_VZ]]YZ¥ZW
@HWI-EAS443:3:40:1296:1863#0/1
CCCGAATGCACTATTGAAGCACCGATTTGAGATAATTGAA
+HWI-EAS443:3:40:1296:1863#0/1
aaababaabaaaaa`aaaaa]aa___`a__a[aaa¥]a`
@HWI-EAS443:3:40:1328:1976#0/1
ACCCGAGTCACGAGGGGGAGGGAATACCACTATATGATGC
+HWI-EAS443:3:40:1328:1976#0/1
ab`aaaa`ba_aV`aaaaYa_aaa_]a]aZ¥^W¥[¥][`V
@HWI-EAS443:3:40:1373:1280#0/1
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+HWI-EAS443:3:40:1373:1280#0/1
a_bbb_`a`YO_abaTTaa`a`a_W`b_a_`ab_`^`aZR
@HWI-EAS443:3:40:1376:739#0/1
ACATGAGAAAAGGCATAAATCCCAATTACCTCATGGCTTGG
+HWI-EAS443:3:40:1376:739#0/1
_¥^ba]babb`a`baaa_a^T_aa`_Zaaa_a___a_a_Y
@HWI-EAS443:3:40:139:669#0/1
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+HWI-EAS443:3:40:139:669#0/1
a¥WTZX`XZQR¥[^UQZ`¥`Ya`^U[U[U^ZZU[W]NLUS
@HWI-EAS443:3:40:1439:1821#0/1
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+HWI-EAS443:3:40:1439:1821#0/1
a_`aa`_aaaa`_a]aa^_a^a_]ZU`aTZ_`^`__`_`_¥
@HWI-EAS443:3:40:148:1078#0/1
TGGGGGCTATATGAAGCAATCGAGGAGTGCCTGATTAAT
+HWI-EAS443:3:40:148:1078#0/1
`aa¥aa`_aaaabaaaabaU_aa_¥[M^Xa_`_`_]a__
@HWI-EAS443:3:40:1517:1913#0/1
TGGGAAAGCTTGCCCTCAATGCAGCCGTTCCGGCTCGAATC
+HWI-EAS443:3:40:1517:1913#0/1
[aab`bbaaa[Za_]_JW¥__aaaJU]`[]R^^^ZUYVLJ
@HWI-EAS443:3:40:1579:572#0/1
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+HWI-EAS443:3:40:1579:572#0/1
`bbbabbbbbbbbbbbbbbbbbbbbbbbbbbbbbaabb`baa`a

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+HWI-EAS443:3:40:1596:169#0/1
abbbbabaabbaabbabb`babba`a¥^_aaa`^`aaaaa
@HWI-EAS443:3:40:1649:469#0/1
GGTGA ACTTTGTAAGTATGGAGTTCTCACTCACTGACCCG
+HWI-EAS443:3:40:1649:469#0/1
aaNa^`__aa_Y]_aT_aa^¥a[¥W_`^``WSb¥`¥¥UQZ
@HWI-EAS443:3:40:1669:1438#0/1
ATTCTTTGGCTGGAAAGAGCCTAACATAGTCAAACCACAT
+HWI-EAS443:3:40:1669:1438#0/1
¥^aX^baY¥Z¥ba]^`TV¥^KaZZ`ROZaRV^][`baXZ]
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TAAATCCCAATTACCTCATGGCTTGGAAAGCAGGTGCTAGC
+HWI-EAS443:3:40:1692:973#0/1
aaa_aaa_a`a`^`U_____`a^``WPMS[RTY¥XX[TUQL
@HWI-EAS443:3:40:1775:1585#0/1
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+HWI-EAS443:3:40:1775:1585#0/1
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@HWI-EAS443:3:40:186:1618#0/1
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+HWI-EAS443:3:40:186:1618#0/1
¥T_abab`RPW_`a_ZW¥¥`a_a`UKZM[SZ]_baYYVP
@HWI-EAS443:3:40:192:1785#0/1
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+HWI-EAS443:3:40:192:1785#0/1
a_baa^`aa`¥P]¥a_[Z_Y¥_Z]¥[Wa¥a][Y`a`V]`
@HWI-EAS443:3:40:229:1966#0/1
TG TAGCTCTGCTAGCACCTGCTTCCAAGCCATGAGGTAAT
+HWI-EAS443:3:40:229:1966#0/1
Z^^¥I`_`RV][R_a__aY¥[Y[_YHLWa`_[YZ^_TYRV
@HWI-EAS443:3:40:22:1750#0/1
GGGGGCTATATGAAGCAATCGAGGAGTGCCTGATTAATGA
+HWI-EAS443:3:40:22:1750#0/1
ZH^T^a[^a_XX`_V]^]¥^][Z][PGXZ`^XXYXXYYY¥
@HWI-EAS443:3:40:244:470#0/1
GCAGGTGCTAGCAGAGCTACAGGACATTGAAAATGAAGAG
+HWI-EAS443:3:40:244:470#0/1
a_V]]Y^^_Y_ZQY]_] ^]¥]Y]XYV]YU]Y]XVVRW]Z
@HWI-EAS443:3:40:254:625#0/1
CACACATTTGGAAGTTTGTTCATGTATTCCGATTTCCAT
+HWI-EAS443:3:40:254:625#0/1
a_`]]Y`a^^^¥GZU¥aa____a[`YXL¥XY^`_YVV]YHY
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CAAGAAATGGCCAGTAGGAGTCTATGGGATTCCTTTTCGTC
+HWI-EAS443:3:40:314:924#0/1
a_bba[[`_abbabbX__`bb`bbaba_^RY`ab_]`a_T]
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GGGGGCTATATGAAGCAATCGAGGAGTGCCTGATTAATGA

+HWI-EAS443:3:40:391:361#0/1
ab`aaa`a`a`a`aa_`Z¥aa_aa^`X`_^W`]]Y_^]_
@HWI-EAS443:3:40:400:1353#0/1
CCCCTGTTGTGTACATATACTGTTCACTGTCCAGGC
+HWI-EAS443:3:40:400:1353#0/1
aababb``_a`aa`aaaY_^``^^`¥H^ba[a`Wba^[R_
@HWI-EAS443:3:40:424:1821#0/1
GCCTGGACAGTGGTGAACAGTATATGTAACACAACAGGGG
+HWI-EAS443:3:40:424:1821#0/1
a^MW[TY_¥]VPVYa`a^¥a]a]Z[[U[0¥[^ZZY[^^[Q
@HWI-EAS443:3:40:427:1466#0/1
ATTTGGGAAAGCTTCCCCTCAATGCAGCCGTTCCGGCTCGA
+HWI-EAS443:3:40:427:1466#0/1
aaaa`aa`aa`a^aa_`^a`W¥_a`¥a`_¥X^¥¥_X¥WS
@HWI-EAS443:3:40:452:719#0/1
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+HWI-EAS443:3:40:452:719#0/1
`Ra][`G`¥_^UOUOZO_Y^[aZZXXOTZRWYUZS]U]U
@HWI-EAS443:3:40:479:1729#0/1
AGAACACAGTATTTTTCCCATTGTGTGGCTCCAGTCTCG
+HWI-EAS443:3:40:479:1729#0/1
^aTabba`PYaa`aa^aaa]^`¥[Y`Vaa`^ORK^Q]N
@HWI-EAS443:3:40:494:650#0/1
GGTGTTCATAGTGCATTCGGGTCACCAGATTCTACAAT
+HWI-EAS443:3:40:494:650#0/1
abHa`a`^¥YY¥XQ_`a_Y]Qa_0__^¥GTRR][YYPY]GX
@HWI-EAS443:3:40:539:1464#0/1
GACTGACGAAAGGAATCCCATAGACTCCTACTGGCCATTT
+HWI-EAS443:3:40:539:1464#0/1
a]a``_a^aaa[^`^`a¥aa_a^^_``]a^^_]a_XY¥Y
@HWI-EAS443:3:40:740:479#0/1
CGACACTTGGCCTATCGCAGTCCTCAAGAGCATGTCTCCT
+HWI-EAS443:3:40:740:479#0/1
a`baabaaab_`^baabaaa]a``a_P_I`_^``^a^``¥
@HWI-EAS443:3:40:757:79#0/1
GCGCATAGTTCCTGTAATCTCAAATTTTTCTTCAATTGTC
+HWI-EAS443:3:40:757:79#0/1
a][[^a[^`Z_WX__ZZ]^X]]ZSS]^Z_UW¥WWWUXYXXW
@HWI-EAS443:3:40:782:589#0/1
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+HWI-EAS443:3:40:782:589#0/1
aaaabaaaaabaaaa`aaaaabXaXa__`a`Raa_[P]
@HWI-EAS443:3:40:786:526#0/1
AAGAGACCGAATCATGGCCTGGACAGTGGTGAACAGTATA
+HWI-EAS443:3:40:786:526#0/1
``baaaaaba`a]]``a_aaa`__^]R]_]_^[_`__Y_^_
@HWI-EAS443:3:40:80:338#0/1
GCCGAAAACCCCTCAAGTTGTGGAGACGCATATAGACTGT
+HWI-EAS443:3:40:80:338#0/1
aaa`¥IXZ__^`^][^^Q[[R][__¥ZRXZZNXQSPSZSN

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+HWI-EAS443:3:40:814:1233#0/1
_aaZJV]`a`a]_a__`[_UZZRNZRKSTVNT^^T¥UX
@HWI-EAS443:3:40:867:1212#0/1
CGAACTTCTCCAGCCTTGAAAACCTTTAGAGCCTATGTAGA
+HWI-EAS443:3:40:867:1212#0/1
aaa_bab^[W]aaaa_T^ZaU`YXZ]Va_`^___UZ[`
@HWI-EAS443:3:40:886:64#0/1
GGCTGCACAGGATGCATTGAGCAAGGCCGTATTTATGTAC
+HWI-EAS443:3:40:886:64#0/1
a^^]_]XXX]YYX^¥XYXYXYXYXYXQSPWYVWVUWQ
@HWI-EAS443:3:40:93:1274#0/1
TTTCGGCTGAATCGAGAAAATTGCTTCTCATTGTTTCAGGC
+HWI-EAS443:3:40:93:1274#0/1
_V]¥¥`babbbab_K`_XYUVZR]]`__[JUUVFV`_Y¥Z
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CAATAATTGTAGAATCTGGTGACCCGAATGCACTATTGAA
+HWI-EAS443:3:40:974:514#0/1
aaaa]^a_b`^`_V^`[^b_baba`N_WVZa^X_SZbaa
@HWI-EAS443:3:42:1015:1292#0/1
AGCAGGTGCTAGCAGAGCTACAGGACATTGAAAATGAAGA
+HWI-EAS443:3:42:1015:1292#0/1
a`````_aabaaaa`_aa`aa^]^^¥_a_^``a^``_
@HWI-EAS443:3:42:101:1133#0/1
GCATGGAAATGAGGCGCTGCCTTCTTCAGTCTCTTCAGCA
+HWI-EAS443:3:42:101:1133#0/1
a_[Q_] ^W]^VVTa[aY`¥_T]^X`Y[VU[¥V_]Z]]R
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CACGAGGGGGAGGGAATACCACTATATGATGCAATCAAAT
+HWI-EAS443:3:42:101:947#0/1
abb_[^bab`Yaaaa`a`abaa`aaaba`a`aaaa¥0^`
@HWI-EAS443:3:42:1059:395#0/1
GCGCATAGTTCTGTAATCTCAAATTTTTCTTCAATTGTC
+HWI-EAS443:3:42:1059:395#0/1
aabaaa`b^aaaab`ababaa`abbabaaaa`^aaa`a
@HWI-EAS443:3:42:1086:1778#0/1
CAAGGACAAAGAACATGAAGAGAACAAGCCAATTGAAGTG
+HWI-EAS443:3:42:1086:1778#0/1
`bb`baaaaaa`aab`abb_ba`baa]`a```_aaaU¥
@HWI-EAS443:3:42:1095:1297#0/1
AATGGCCAGTAGGAGTCTATGGGATTCCTTTCGTGAGTCC
+HWI-EAS443:3:42:1095:1297#0/1
abVabb`^Yb``aHa`abVZaabY[abb^^Z^[RR]]
@HWI-EAS443:3:42:1097:1186#0/1
GGCATGGAAATGAGGCGCTGCCTTCTTCAGTCTCTTCAGC
+HWI-EAS443:3:42:1097:1186#0/1
aa`aabaaaaabaaa`b`aa`aaaaaaa`aZ]a_`aZ[¥¥
@HWI-EAS443:3:42:1127:1288#0/1
ATTCATCGACGAACGGGGTGAATCAATAATTGTAGAATC

+HWI-EAS443:3:42:1127:1288#0/1
R¥^aabbbbb[V^`_a`TUZQ_]_W_UU^]_Z____`^X
@HWI-EAS443:3:42:1210:323#0/1
CTCTTCATGTTCTTTGTCCTTGGGATCTTCTTCATTTT
+HWI-EAS443:3:42:1210:323#0/1
a``bZ`bbaa^ab`bbabbbbbbab_baab_bbb`bbab
@HWI-EAS443:3:42:1252:1799#0/1
CATTCTTTGGCTGGAAAGAGCCTAACATAGTCAAACCACA
+HWI-EAS443:3:42:1252:1799#0/1
_aaa`^aa`U`aXIaZ`b`aa]baa^¥b____``aba[^`a
@HWI-EAS443:3:42:1304:1329#0/1
GTCAATTCACATGCCTTATTGAATTCATTTTGGACCCAGC
+HWI-EAS443:3:42:1304:1329#0/1
a`aabaaa_ba`aaba`aaa`aaa^aabaa_Z_`a^__¥
@HWI-EAS443:3:42:1311:191#0/1
CTCCCCTGGGTGACTCTCCGATTGGCCATGTTTCCGATTT
+HWI-EAS443:3:42:1311:191#0/1
abaabbbba]aaaaa]^^`a`_a__aW`a_Z^P```
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AGCAGGTGCTAGCAGAGCTACAGGACATTGAAAATGAAGA
+HWI-EAS443:3:42:1342:1597#0/1
SS`^a_SY_¥¥aaXM^`XabaaZZ[^]Z_TX_aaaa`a^
@HWI-EAS443:3:42:1381:1143#0/1
GGTGAACCTTTGTAAGTATGGAGTTCTCACTCACTGACCCG
+HWI-EAS443:3:42:1381:1143#0/1
aaY][`_a`a]__]U__^_[ZY__`]Z`_]Y^`]_^WW
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GACATTCTTTGGCTGGAAAGAGCCTAACATAGTCAAACCA
+HWI-EAS443:3:42:1440:876#0/1
aa^`_a_a_`_`Yaa_Z^_Z^¥Z_]^^`XX^__^XY
@HWI-EAS443:3:42:1455:14#0/1
GGCATGTGAATTGACTGATTCAAGCTGGATAGAACTTGAT
+HWI-EAS443:3:42:1455:14#0/1
a`¥LW`W`Z^```]Z_aX¥^¥VW¥U]__]^¥]VXOZ^]Y[
@HWI-EAS443:3:42:1483:84#0/1
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+HWI-EAS443:3:42:1483:84#0/1
abababaaaaabab`aaa_aa_aa_`b_`_`^_¥a__^a
@HWI-EAS443:3:42:1529:988#0/1
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+HWI-EAS443:3:42:1529:988#0/1
a_^ab]baa_aba`aaa_``_aaa`_aaaa_a^a_aaaX
@HWI-EAS443:3:42:1541:1556#0/1
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+HWI-EAS443:3:42:1541:1556#0/1
^H^UONZYYSUV[SSZQU[XRU¥SSONSSVRZWTWY][[¥T
@HWI-EAS443:3:42:1598:529#0/1
CCTCAAGAATGGTTCAATTTTGGCGTTCACCTCTTTTGAC
+HWI-EAS443:3:42:1598:529#0/1
H_``ZZb```_][Y¥V_¥_`````aabaa`aa[G]bbaXJG

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@HWI-EAS443:3:42:1668:1645#0/1
GGCACTCGGTGAAAATATGGCACCAGAAAAAGTAGACTTT
+HWI-EAS443:3:42:1668:1645#0/1
a_U_bba`[^QX^¥aa_Y`Z¥MTL[_¥^`¥[_N]YZ[S[^
@HWI-EAS443:3:42:1722:232#0/1
GGGGTAGAGAAGCCTAAATTTCTTCCTGATTTGTATGATT
+HWI-EAS443:3:42:1722:232#0/1
ab_]V`a_a```YY`^^^`__X^_UU]¥Y_____Z]`_Z^X
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+HWI-EAS443:3:42:1778:1616#0/1
abaX^`^a`aaaaa_`a_a`Wa[^aa^¥_aaR^_^____[
@HWI-EAS443:3:42:235:349#0/1
AACTAGGCTTTTCACTATAAGACAAGAAATGGCCAGTAGG
+HWI-EAS443:3:42:235:349#0/1
abaY____]Y`__X]WXRZ```WNQYZWM]ZXZNY\$OKVT
@HWI-EAS443:3:42:266:925#0/1
CGATTGGCCATGTTTCCGATTTGTTTTCAAAGAATTCCTT
+HWI-EAS443:3:42:266:925#0/1
abaa_aaaa¥a`^`^Va_V_a`aX`_Z[_`¥]`^a_^Z`^
@HWI-EAS443:3:42:269:1408#0/1
TGCATCCTGTGCAGCCATGGATGACTTTTCAGCTGATCCCA
+HWI-EAS443:3:42:269:1408#0/1
ab¥_abaa[aabab[]aab_]b¥b`_aaaaU``aba``
@HWI-EAS443:3:42:286:1081#0/1
GGGGGCTATATGAAGCAATCGAGGAGTGCCTGATTAATGA
+HWI-EAS443:3:42:286:1081#0/1
T_````aY`Wababb_Xa`abaa`a`]abbabba]a`a^`
@HWI-EAS443:3:42:383:1668#0/1
CTTGCTAGAGATCTGGGCTCTGGCTCATCACTGTCATACT
+HWI-EAS443:3:42:383:1668#0/1
abbbbbbbbabbbb`bbabbbbaabbbabbbab`__abbb
@HWI-EAS443:3:42:452:789#0/1
CAATGAGAAGCAATTTTCTCGATTTCAGCCGAAAACCCCTC
+HWI-EAS443:3:42:452:789#0/1
^abbbbbbbba_[abbbababbbabbbbaabbb_ba`¥bba
@HWI-EAS443:3:42:456:1611#0/1
GGGGGCTATATGAAGCAATCGAGGAGTGCCTGATTAATGA
+HWI-EAS443:3:42:456:1611#0/1
`QSZ]a]a``^a```¥aa_[`0`¥UU¥_a_[[Z_]UZV`]
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AATGAAGGGAGTGACATAAATACGGCCTTGCTCAATGCA
+HWI-EAS443:3:42:490:954#0/1
WR`¥I_b```_]a]`a`R_a_`]__aaX[^a]^`V]`a^
@HWI-EAS443:3:42:630:1078#0/1
AGCAGAGCTACAGGACATTGAAAATGAAGAGAAGATCCCA

+HWI-EAS443:3:42:630:1078#0/1
aaa[a_T_`ZXQaa]aa`aXT¥[T^aa`a__U[]][PZ^Y`
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GGGGCATGGAAATGAGGCGCTGCCTTCTTCAGTCTCTTCA
+HWI-EAS443:3:42:675:817#0/1
abbabbaabaabbbbaabbaaaa`ab`ba`]aa_aaaaa`
@HWI-EAS443:3:42:786:429#0/1
ATCGACGAACGGGGTGAATCAATAATTGTAGAATCTGGTG
+HWI-EAS443:3:42:786:429#0/1
abb¥Q]aa`]_``Ua]ZYJ]`Y`[a`¥]```VYFT`aG_
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+HWI-EAS443:3:42:863:444#0/1
abaaabb``_abaaaaa`aa_¥^aa^^^`_`__a]_a¥
@HWI-EAS443:3:42:879:1136#0/1
GGCTCCAGTCTCGGGTCAGTGAGTGAGAACTCCATACTTA
+HWI-EAS443:3:42:879:1136#0/1
abaaa`_¥S_]`[ZSM[XXQ]W[PUX^]`[`ZNQ¥¥X`[J
@HWI-EAS443:3:42:889:777#0/1
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+HWI-EAS443:3:42:889:777#0/1
aabaaa]_¥[a`a_a__UYaZa``aaa_a]YXa]`a`Ya
@HWI-EAS443:3:42:912:620#0/1
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+HWI-EAS443:3:42:912:620#0/1
abM`ababa`_[[[`¥`[_Y]]_Y^¥X]]XYMHO[GQ[_X
@HWI-EAS443:3:42:942:448#0/1
CCTCAAGTTGTGGAGACGCATATAGACTGTTGAATACAGA
+HWI-EAS443:3:42:942:448#0/1
aa]_XN`[^V0^Y``]aa_^^`_ZVUS^_[ITVDVVQQMN
@HWI-EAS443:3:43:1000:1234#0/1
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+HWI-EAS443:3:43:1000:1234#0/1
`Ub`b`^aT`_]_b^ba`[aaaabbaba_aba_a^b_aa
@HWI-EAS443:3:43:1144:1131#0/1
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+HWI-EAS443:3:43:1144:1131#0/1
abb_bba`aa^ba]_ab`a¥0_abaab`_aba_a`a_``_
@HWI-EAS443:3:43:1158:1395#0/1
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+HWI-EAS443:3:43:1158:1395#0/1
a[bbbbbababbbb`bab`¥``]`[_aa_aababbaa_Wa
@HWI-EAS443:3:43:1188:833#0/1
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+HWI-EAS443:3:43:1188:833#0/1
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@HWI-EAS443:3:43:11:1242#0/1
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+HWI-EAS443:3:43:11:1242#0/1
ababaaabaaX`YW]aa`¥XZ^¥a`X_¥][^]XQ`Z^[[Z

+HWI-EAS443:3:43:1643:1148#0/1
aaa`b^bb`a]aa^_aaa___^^a___¥` `a^]`^]`^` ZW
@HWI-EAS443:3:43:1650:1317#0/1
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+HWI-EAS443:3:43:1650:1317#0/1
^IaabaaYaaa[_`a]__X^RGNSXKPOXLSF0¥ZQT]VU
@HWI-EAS443:3:43:1657:275#0/1
CATCGACGAACGGGTGAATCAATAATTGTAGAATCTGGT
+HWI-EAS443:3:43:1657:275#0/1
abb]aa`aaa`ba¥`S]Z_]XZ_`¥]`aa]Z[[`^R[``Y
@HWI-EAS443:3:43:1735:971#0/1
CAGTCATCAAAGTCTACTTTTTCTGGTGCCATATTTTCAC
+HWI-EAS443:3:43:1735:971#0/1
a^XX^_bb`WGUJZ`Z¥_`]YT^¥_WQ_]a`^Ua`_]_X¥[
@HWI-EAS443:3:43:1748:1761#0/1
CAGAGCCCAGATCTCTAGCAAGCTGGGTCCAAAATGAATT
+HWI-EAS443:3:43:1748:1761#0/1
a`]a`aaaaa`R_¥_aaaZ]a^`a`_XT_W`^_]`_]`
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+HWI-EAS443:3:43:1754:553#0/1
a`]a^a` ```aaaYa`_`¥T]Z]RXX]XIN]XRU[[LTQVY
@HWI-EAS443:3:43:227:1071#0/1
TGTCCAGGCCATGATTGGTCTCTTCCTTCAATTATCTCA
+HWI-EAS443:3:43:227:1071#0/1
aa[b`aaaaa]aYQ[_aSHU¥__`__[[` ```[[V^[]Y]
@HWI-EAS443:3:43:286:84#0/1
CATGATTCGGTCTCTTCCTTCAATTATCTCAAATCGGTGC
+HWI-EAS443:3:43:286:84#0/1
_bbbabbaab^a_aab`_`a^_[aa_`¥]]Z``S]]XO_W
@HWI-EAS443:3:43:293:1891#0/1
CCCGAATGCACTATTGAAGCACCGATTTGAGATAATTGAA
+HWI-EAS443:3:43:293:1891#0/1
]b`aY`aa]baaaba[`b]aaaaaaaa`YZaaa`aaaa_
@HWI-EAS443:3:43:360:1153#0/1
GGGCACTCGGTGAAAATATGGCACCGAAAAGTAGACTT
+HWI-EAS443:3:43:360:1153#0/1
abb`aabbbbR`]aa` `a`U` [a^a_` `¥GNaws_[YW^R
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CATGAAGACATTCTTTGGCTGGAAAGAGCCTAACATAGTC
+HWI-EAS443:3:43:409:813#0/1
abbbbbbbbabbaaabbbabb`abbaaaaaab`aaaa`a
@HWI-EAS443:3:43:429:806#0/1
GAACCTTGTAAAGTATGGAGTTCTCACTCACTGACCCGAGA
+HWI-EAS443:3:43:429:806#0/1
aab_aaab[aab_a¥`a]a_a`_`a_a_]Ya^aa^_` [a_
@HWI-EAS443:3:43:452:1202#0/1
CACTGTCATACTGTTAAGGTCTCCAACATCTTTGCAGTC
+HWI-EAS443:3:43:452:1202#0/1
^¥a` `¥`^aba`a`b` `]`aSbb`b_b_babbbaw_aa`b

@HWI-EAS443:3:43:517:1312#0/1
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+HWI-EAS443:3:43:517:1312#0/1
aJV[a`a^W___aQ^H^N_^VV]YV`¥`YSZUSWNS¥
@HWI-EAS443:3:43:524:1363#0/1
AAAAGGAAGGTCTCATTTGAGAAATGATACTGATGTGGTG
+HWI-EAS443:3:43:524:1363#0/1
]¥Y^_aaa`]¥`^ab`aa_aabaaa`ba``bb¥S_a¥^
@HWI-EAS443:3:43:569:1705#0/1
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+HWI-EAS443:3:43:569:1705#0/1
`aaa`Zaa`aa]_abaab`ababWaab`aab`a`aa]`aa
@HWI-EAS443:3:43:590:1555#0/1
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+HWI-EAS443:3:43:590:1555#0/1
aa`ba`b_b]^TU_]a`^_aa_aaa^¥Yaa`_^^`a`_`_¥
@HWI-EAS443:3:43:595:142#0/1
TGTGGACTTCCCTCCGTGTTACTCCAATTTCAATGAACCG
+HWI-EAS443:3:43:595:142#0/1
ab]baa`aaa`_aab]a^_a]_]_a¥¥a^^^Z`_`¥V`
@HWI-EAS443:3:43:622:460#0/1
CCCTGTTGTGTACATATACTGTTCACTGTCCAGGCC
+HWI-EAS443:3:43:622:460#0/1
`bbbbabb`b_baa`bbaabb_aaaaaaaaa_aa`a_a^
@HWI-EAS443:3:43:648:554#0/1
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+HWI-EAS443:3:43:648:554#0/1
`Y`YRK^ab`ZXaZ^]VY]``]Ya_VR_]_^ZW¥ZR^
@HWI-EAS443:3:43:685:460#0/1
AGCAGGTGCTAGCAGAGCTACAGGACATTGAAAATGAAGA
+HWI-EAS443:3:43:685:460#0/1
aaaa`a]aaaa`ab_aaa`aa`_aaaa_````_`a`
@HWI-EAS443:3:43:702:156#0/1
ATTCATCGACGAACGGGTGAATCAATAATTGTAGAATC
+HWI-EAS443:3:43:702:156#0/1
aabaaaaabaaa`W^_a_Y__`_YZ[_]__`UT_^_]U
@HWI-EAS443:3:43:887:61#0/1
ATCTACATAGGCTCTAAAGTTTTCAAGGCTGGAGAAGTTC
+HWI-EAS443:3:43:887:61#0/1
ab`baa[aZ`abbabZ¥Z^V`a^UXZ^`Q[_¥D¥HZ[RWM
@HWI-EAS443:3:43:990:987#0/1
TAGAGATCTGGGCTCTGGCTCATCACTGTCATACTGTTTA
+HWI-EAS443:3:43:990:987#0/1
aabaaaaabaaa`a`aa`aa`aaa`_`_`a]^_aY]__
@HWI-EAS443:3:44:1035:888#0/1
AATTCACATGCCTTATTGAATTCATTTTGGACCCAGCTTG
+HWI-EAS443:3:44:1035:888#0/1
aabaab`aaaabbbaa`a`]aa`aa`a`_`^a_]````_`
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ATCGCAAGCATGAGGAGGAAGTATTTTACAGCAGAAGTGT

+HWI-EAS443:3:44:105:1953#0/1
a`^`T¥X¥`b[a¥¥[abP^a_¥b`_`aY__N^_[]U_
@HWI-EAS443:3:44:1102:1444#0/1
CTCCAGCCTTGAAAACCTTAGAGCCTATGTAGATGGATTC
+HWI-EAS443:3:44:1102:1444#0/1
I_¥_bbaTa`b`¥¥a`_[__U_ZVX`__`Xab[M[bZG_Y
@HWI-EAS443:3:44:1129:613#0/1
GTCCAGGCCATGATTCCGGTCTCTTCCTTCAATTATCTCAA
+HWI-EAS443:3:44:1129:613#0/1
a``_aaaaaa^aaaa[^a]aa_a`__aa_[_aa`aa`]__
@HWI-EAS443:3:44:1160:583#0/1
GGGCAAGCTTCCCAAATGTCAAAGAAGTGAACGCCAAA
+HWI-EAS443:3:44:1160:583#0/1
a`a`_ZZ)`a`a^^a[^`b^_a¥^Xa]a_Y¥X¥U`]^)]^
@HWI-EAS443:3:44:1174:589#0/1
GGGGCATGGAAATGAGGCGCTGCCTTCTTCAGTCTCTTCA
+HWI-EAS443:3:44:1174:589#0/1
aaba_a`bbaa_ab``_]a`aa]_`a_aa_`a^¥___`UZ
@HWI-EAS443:3:44:1209:1935#0/1
GCGTCTCCACAACCTTGAGGGGTTTTCGGCTGAATCGAGAA
+HWI-EAS443:3:44:1209:1935#0/1
`aba`aa_a^_a_aaa_`aaaT___Z[a]___a`_YXY___
@HWI-EAS443:3:44:1256:1423#0/1
GTTTCCGATTTGTTTTCAAAGAATTCCTTGGTCATGTCTT
+HWI-EAS443:3:44:1256:1423#0/1
_`aaa`b`Zaaba`baaa]aa^Raa][aab`YS[_a]_a`
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GGGGGGCTATATGAAGCAATCGAGGAGTGCCTGATTAATG
+HWI-EAS443:3:44:1269:825#0/1
a`^V[X)`^^^`_[RU]^^^^U]ZT^N_Z[ZRTYWUWW
@HWI-EAS443:3:44:1280:1057#0/1
GATGCTCTGAAATTAAGTATTGAAGACCCGAGTCACGAGG
+HWI-EAS443:3:44:1280:1057#0/1
a`_Yaa`Z_Z[_^a`]Naaaaa^^X`^_Z_UZ__a]_`
@HWI-EAS443:3:44:1332:830#0/1
ACCGATTTGAGATAATTGAAGGAAGAGACCGAATCATGGC
+HWI-EAS443:3:44:1332:830#0/1
a_aa^aaaa^aa_aaa`a[¥`_^`^^`^^a]^_`_^`^W
@HWI-EAS443:3:44:1352:1025#0/1
CACAACCTTGAGGGTTTTCGGCTGAATCGAGAAAATTGCT
+HWI-EAS443:3:44:1352:1025#0/1
a``aaabaaababa^baaa_a``aaa`Z`_`_^`^^`^R`
@HWI-EAS443:3:44:1531:952#0/1
CATAAATACGGCCTTGCTCAATGCATCCTGTGCAGCCATG
+HWI-EAS443:3:44:1531:952#0/1
`Va_a]a`_]UYa_`a¥_^ZRRYVY^^¥__V^WUY¥[[V¥
@HWI-EAS443:3:44:1566:1881#0/1
TGCAGTGGGACACTTCTGCTGTAAAATAGTTCCTCCTCAT
+HWI-EAS443:3:44:1566:1881#0/1
[^^^X¥¥WQR`abbbabZaaS^]a`¥aa_a]SNYTS__a_

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+HWI-EAS443:3:44:1571:67#0/1
aa^^`^a[`¥Ua]_YUUXY`^P¥]^S^^^¥aYU`¥[QT
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+HWI-EAS443:3:44:1585:119#0/1
aa` `babaab`aab¥^^aZa¥S_V¥ZUQVZY_ZT]OZ[L
@HWI-EAS443:3:44:1593:1975#0/1
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+HWI-EAS443:3:44:1593:1975#0/1
aZa`aVZ_`^]_` [RU¥S[VQJVSMRWULSVBBBBBBBBB
@HWI-EAS443:3:44:159:1028#0/1
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+HWI-EAS443:3:44:159:1028#0/1
aaabbaaaba[aa`a` `aa`^aa`aa^__`aU`^[[_
@HWI-EAS443:3:44:1702:971#0/1
GGGGCATGAAATGAGGCGCTGCCTTCTTCAGTCTTCA
+HWI-EAS443:3:44:1702:971#0/1
aXa`^UT_TXTQ]`G_¥^a¥W`W¥V¥VX[WM^TSSQWVMG
@HWI-EAS443:3:44:1703:255#0/1
GAGGGTTTTTCGGCTGAATCGAGAAAATTGCTTCTCATTG
+HWI-EAS443:3:44:1703:255#0/1
_¥_UUTRaa`Ga^`ab^TaXa]]]____`_U[NFY]]]]^
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CTCCTCGATTGCTTCATATAGCCCCCAAGATCGAAGGTT
+HWI-EAS443:3:44:269:293#0/1
`a`ababaaaaaaa_aaaaba`^]^` [a_]ZV[_aa`SY
@HWI-EAS443:3:44:298:242#0/1
GAATACCATATATGATGCAATCAAATGCATGAAGACATT
+HWI-EAS443:3:44:298:242#0/1
aaaaaaaa_aaaaab`_a_a`_aa^_a`a_aa_a`_`_`_
@HWI-EAS443:3:44:319:395#0/1
GTGGGAGACTTTGGTCGGCAAGCTTGCGCATAGTTCCTGT
+HWI-EAS443:3:44:319:395#0/1
a`ba`^b`^aaa`]¥`¥¥aa`____`^a`_`^_W__^^_Y
@HWI-EAS443:3:44:470:749#0/1
AAAGAATTCCTTGGTCATGTCTTTCTTTTGACAGAAGAC
+HWI-EAS443:3:44:470:749#0/1
^__aa_baba`bab[`aaaP`aa_a_]`a`]¥__`a`XDM
@HWI-EAS443:3:44:495:355#0/1
CAGATTTTGCAGTAAGGTCCTGCACACTTCCCAATAGA
+HWI-EAS443:3:44:495:355#0/1
abbbabaaabaaa_babaTa`aaaaaaaa`aa`_a`_aa_
@HWI-EAS443:3:44:517:1276#0/1
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+HWI-EAS443:3:44:517:1276#0/1
`a^]^[b`bVTV^N_]RRV_a`T^_¥]]]aY[Ya¥WZPQY
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@HWI-EAS443:3:44:563:1897#0/1
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+HWI-EAS443:3:44:563:1897#0/1
aaaaa`aaa^a[aaa]`_baaaa_aaaa`_aaa__`^a]Z
@HWI-EAS443:3:44:619:1931#0/1
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+HWI-EAS443:3:44:619:1931#0/1
aaaaaaaa`_aa_a__a`a_aa_^[U__Z`Y_Z`^^_Q
@HWI-EAS443:3:44:633:26#0/1
GCCTTCCTCCACTCCCCTGGGTGACTCTCCGATTGGCCAT
+HWI-EAS443:3:44:633:26#0/1
a`_a_]Z]_a`_^`_^¥¥___W^¥V¥Y¥WWW¥VYY¥¥UVUW
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+HWI-EAS443:3:44:648:562#0/1
`aV¥^¥^a_Z¥Ub¥bYaa`b`[YXa[[aX`aYb`^b¥¥¥
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+HWI-EAS443:3:44:699:983#0/1
_R][b`b`a^_XSa]WYP^^_KX`Q__]WGa]O_P`P^^_
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+HWI-EAS443:3:44:69:970#0/1
aaa`aaaaaa_X^a^a_^`__`^^`_`aT[_^__]__^_
@HWI-EAS443:3:44:700:145#0/1
GAAAGGCATAAATCCCAATTACCTCATGGCTTGAAGCAG
+HWI-EAS443:3:44:700:145#0/1
^aXaa`abbbbbbababbbb`a`_`_aaabaaa`^X[XNV]
@HWI-EAS443:3:44:700:585#0/1
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+HWI-EAS443:3:44:700:585#0/1
a_b`[^bbaRa^a``aaa`baaaaa_aaba__aaa_a_]a
@HWI-EAS443:3:44:708:412#0/1
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+HWI-EAS443:3:44:708:412#0/1
aa`]^aaaY¥babYa`b`Taaa^T^^a``X^`aZaa^ZZ
@HWI-EAS443:3:44:724:393#0/1
GCCTTTCTCATGTGGTTTACTATGTTAGGCTCTTTCCAG
+HWI-EAS443:3:44:724:393#0/1
abaaaaa`^)`b^baX]YbY`_]_a[[[]]T[WX]`RX^X
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+HWI-EAS443:3:44:85:671#0/1
abbabaaaabaabbbaaabaNa__a¥`_aZU^_aU^_^V
@HWI-EAS443:3:44:914:1120#0/1
TGGTGAACAGTATATGTAACACAACAGGGGTAGAGAAGCC
+HWI-EAS443:3:44:914:1120#0/1
a`a`aaa`aa]aaaa_``aa``_]_^__`^[_`__`¥`[S

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+HWI-EAS443:3:44:926:843#0/1
aab_aaaaabab_aaaaab`a```aaa`aaa`¥aaaa^`a
@HWI-EAS443:3:44:946:641#0/1
CTTGGGGGCTATATGAAGCAATCGAGGAGTGCCTGATTA
+HWI-EAS443:3:44:946:641#0/1
__¥N[aaba`a¥_bbbb````_a`a^_aa`X`^`ba`aa_
@HWI-EAS443:3:45:1133:1630#0/1
ACTCGGTGAAAATATGGCACCAGAAAAAGTAGACTTTGAT
+HWI-EAS443:3:45:1133:1630#0/1
__baabW`_aaaa_aa_Y`Z^^a¥¥ZVW_0``Z]aZ_`^_
@HWI-EAS443:3:45:1192:111#0/1
AGAGACCGAATCATGGCCTGGACAGTGGTGAACAGTATAT
+HWI-EAS443:3:45:1192:111#0/1
_bab^`aaVV][__abaZabUVY[_¥_aU_U¥[[XDT¥ZW
@HWI-EAS443:3:45:1193:947#0/1
AGAATATGGGGAAGATCCGAAAATCGAAACTAACAAGTTT
+HWI-EAS443:3:45:1193:947#0/1
a_abababa¥a][`abbaa`abaa`a_aa`aaaa`_a)`_
@HWI-EAS443:3:45:120:870#0/1
GGATCTTCTCTTCATTTTCAATGTCCTGTAGCTCTGCTAG
+HWI-EAS443:3:45:120:870#0/1
aaaa_bbaaabbaabaaaaaa`____[_a`)]`_VYZ^`_
@HWI-EAS443:3:45:1288:384#0/1
CCTCGATTGCTTCATATAGCCCCCAAGATCGAAGGTTCC
+HWI-EAS443:3:45:1288:384#0/1
_`bab_RZ`¥abb_a[`b`aR`bTXa[`a]^_Z_bZN^¥]
@HWI-EAS443:3:45:1309:912#0/1
CAGGCACTCCTCGATTGCTTCATATAGCCCCCAAGATCG
+HWI-EAS443:3:45:1309:912#0/1
Z¥`XTbbbZX`b`b_]``bb`_`b]]a^^`^^`a]aTPVa
@HWI-EAS443:3:45:1328:1132#0/1
TGAAGGAAGAGACCGAATCATGGCCTGGACAGTGGTGAAC
+HWI-EAS443:3:45:1328:1132#0/1
aa`aaZZ_Y_``¥YV¥T^a`aa_YZ][_YRXYT_^U_^S
@HWI-EAS443:3:45:1334:962#0/1
CATCCATCAGCAGGAACCTTTGACCGCTGATGGCAAAGAGG
+HWI-EAS443:3:45:1334:962#0/1
aa`[R]]XW`MT`_H]Pa`¥aa]`_PHX[XS[V[¥TPKKT
@HWI-EAS443:3:45:1344:972#0/1
AATATGGGGAAGATCCGAAAATCGAAACTAACAAGTTTGC
+HWI-EAS443:3:45:1344:972#0/1
VPHN[[a]W¥]UYa¥ZaZZU¥_]bZZ_`aX```^^_Y]]a^
@HWI-EAS443:3:45:1374:1336#0/1
TGCCCCATTTTCATCTTGATCTTGGAGGTTCCATTGGTTCT
+HWI-EAS443:3:45:1374:1336#0/1
aaaa`aabbb_ab^aaaaa_aaba_baX`__`_^]_X]UU
@HWI-EAS443:3:45:1395:78#0/1
CAGTGATGAGCCAGAGCCCAGATCTCTAGCAAGCTGGGTC

+HWI-EAS443:3:45:1395:78#0/1
`abababbbbaabaab`aa`baa_a`aaa_a^a[_`ba^X
@HWI-EAS443:3:45:1433:1253#0/1
TCGAGCCGAACGGCTGCATTGAGGGCAAGCTTTCCCAAAT
+HWI-EAS443:3:45:1433:1253#0/1
[a[U_a_]_b`¥_^^DOV¥^S]]R]QVPN¥¥ZSVNV]W
@HWI-EAS443:3:45:1444:19#0/1
ATTGAATTCATTTTGGACCCAGCTTGCTAGAGATCTGGGC
+HWI-EAS443:3:45:1444:19#0/1
aaabaaaaa_a]aaaa[_UZ]T]^]LTZ^][VTTS^^ZS
@HWI-EAS443:3:45:1465:638#0/1
GGGGCATGGAAATGAGGCGCTGCCTTCTTCAGTCTCTTCA
+HWI-EAS443:3:45:1465:638#0/1
a`aaa`aa^_]aa`a¥`aZ`a[_a`Z`__XXSWYW^[YY
@HWI-EAS443:3:45:1478:1290#0/1
ATGAAATGGAAATCCGAATACATGAAACAACTTCCCAAAT
+HWI-EAS443:3:45:1478:1290#0/1
a``aVaa`_¥P]aU^^aaa^T^`^`a`aab]W_aSVX_X¥
@HWI-EAS443:3:45:1504:526#0/1
ACGGGGTGAATCAATAATTGTAGAATCTGGTGACCCGAAT
+HWI-EAS443:3:45:1504:526#0/1
]a^Zab_b¥a^Y_a`a]bab]Za`^¥`^aa[``]ZW^Y`Y
@HWI-EAS443:3:45:1523:1490#0/1
ATGAGAAGCAATTTTCTCGATTGAGCCGAAAACCCCTCAA
+HWI-EAS443:3:45:1523:1490#0/1
`a__abba]_ba`a`_b`b_aa_a^aaba`_a_a^^_]`]
@HWI-EAS443:3:45:1526:1103#0/1
GGGGGCTATATGAAGCAATCGAGGAGTGCCTGATTAATGA
+HWI-EAS443:3:45:1526:1103#0/1
V_[Z]U¥TWU¥]PUUMQZ^Y_X[YYXOUOLVY]¥YQUY`B
@HWI-EAS443:3:45:1574:756#0/1
CTCCCCTGGGTGACTCTCCGATTGGCCATGTTTCCGATTT
+HWI-EAS443:3:45:1574:756#0/1
ababaa`bba[ba_aaaaa__`aTT^Y[^a`V[`W^_`
@HWI-EAS443:3:45:1605:1597#0/1
GGGGCATGGAAATGAGGCGCTGCCTTCTTCAGTCTCTTCA
+HWI-EAS443:3:45:1605:1597#0/1
aaabX`^_aa`a]^a`_`_]YS¥_^^_ZYYYY_V^YU[
@HWI-EAS443:3:45:1644:1766#0/1
AAAGAGCCTAACATAGTCAAACCACATGAGAAAGGCATAA
+HWI-EAS443:3:45:1644:1766#0/1
a^ba`b`bbbV[¥X``]¥b¥^V`aSa`a¥a^XX^[_`_`a
@HWI-EAS443:3:45:1681:1336#0/1
GCCATGTTTCCGATTTGTTTTCAAAGAATTCCTTGGTCAT
+HWI-EAS443:3:45:1681:1336#0/1
aa_abaaab`_a_aabbaaba`_a`aa_aa^]aab``Zaa
@HWI-EAS443:3:45:169:1620#0/1
AGAAATGGCCAGTAGGAGTCTATGGGATTCCTTTCGTCAG
+HWI-EAS443:3:45:169:1620#0/1
a]]]a__`aUY_[aa]X_LS_]aa_U`¥JT]`¥[ZODSQ

@HWI-EAS443:3:45:1714:117#0/1
TGGGTCCAAAATGAATTCAATAAGGCATGTGAATTGACTG
+HWI-EAS443:3:45:1714:117#0/1
aaaa¥`_`aa_ab^]aa^`^`_`aa^^_a[_^[_]Y[^`
@HWI-EAS443:3:45:1757:961#0/1
AGAAATTTAGGCTTCTCTACCCCTGTTGTGTACATATAC
+HWI-EAS443:3:45:1757:961#0/1
XY_R[_¥a_V`X__[¥]aWW_a[H]X]][¥U__Z__YT^_
@HWI-EAS443:3:45:1771:1901#0/1
AGCTCTGCTAGCACCTGCTTCCAAGCCATGAGGTAATTGG
+HWI-EAS443:3:45:1771:1901#0/1
¥]`_UW^[R__Xa`XX___`[^]]^XZS`a^`^R[VZZ_U
@HWI-EAS443:3:45:1791:83#0/1
AAGTGCCTGAACAATGAGAAGCAATTTTCTCGATTCAGCC
+HWI-EAS443:3:45:1791:83#0/1
`^_J_TT`baW^]Hab`b``aa]I`aba`aXa_aa_Y_SQ
@HWI-EAS443:3:45:201:1603#0/1
CAACAGTCTATATGCGTCTCCACAACCTTGAGGGGTTTTCG
+HWI-EAS443:3:45:201:1603#0/1
[U_babaT^_¥¥UW_^_U`XPP]]XV_VRGRWQW¥`BBB
@HWI-EAS443:3:45:216:260#0/1
CAATGCAGCCGTTCCGCTCGAATCCATCTACATAGGCTCT
+HWI-EAS443:3:45:216:260#0/1
abbbbaabb__a`__a`]a]ZT^WV_URU[¥PaUWBBBBBB
@HWI-EAS443:3:45:234:75#0/1
GGCATGGAAATGAGGCGCTGCCTTCTTCAGTCTCTTCAGC
+HWI-EAS443:3:45:234:75#0/1
aa]aaaaa``aaa`__a__aWW`_V_[MW`XU_¥__WW[U
@HWI-EAS443:3:45:260:205#0/1
GCAGGTGCTAGCAGAGCTACAGGACATTGAAAATGAAGAG
+HWI-EAS443:3:45:260:205#0/1
aabab^aaaaa`aa`aaa`aaa___`aa]_a`aa`````
@HWI-EAS443:3:45:28:475#0/1
CTTGAGGACTGCGATAGGCCAAGTGTGCGAGGCCCATGTTT
+HWI-EAS443:3:45:28:475#0/1
aabbaaaaa`_`ba___aa_^T_FRJ[^T¥_] [¥ZRURNY
@HWI-EAS443:3:45:32:240#0/1
CTTGGGGGCTATATGAAGCAATCGAGGAGTGCCTGATTA
+HWI-EAS443:3:45:32:240#0/1
G]bb```b^Ta_SXaba_0_Y_¥W`¥a[S¥Q_[abb^¥W`
@HWI-EAS443:3:45:351:1891#0/1
GGGGGCTATATGAAGCAATCGAGGAGTGCCTGATTAATGA
+HWI-EAS443:3:45:351:1891#0/1
Y`ZW`babbbba_¥¥aba_a`b`^aZ`a_aa_`aa^aa_
@HWI-EAS443:3:45:459:966#0/1
TGAAGACCCGAGTCACGAGGGGAGGGAATACCACTATAT
+HWI-EAS443:3:45:459:966#0/1
ZbYWaZSZY`aaPJ`V``a]aa`_a_P`a`]0[ZR_a]a]
@HWI-EAS443:3:45:487:789#0/1
AGGAACTTTGACCGCTGATGGCAAAGAGGCCCATCAGGCA

+HWI-EAS443:3:45:487:789#0/1
^¥^aaabbbbaaaa`ba` `a¥aa`a`^a_^^aa_]YY`a
@HWI-EAS443:3:45:576:705#0/1
GGTGAACCTTTGTAAGTATGGAGTTCTCACTCACTGACCCG
+HWI-EAS443:3:45:576:705#0/1
_a^a[aaabbb[`aZX`a`^^aa]a_a_aYa^`b`UP`]
@HWI-EAS443:3:45:656:1710#0/1
GAGCCCAGATCTCTAGCAAGCTGGGTCCAAAATGAATTCA
+HWI-EAS443:3:45:656:1710#0/1
Z[aUK`¥bb_¥b_Xb_a_bX¥baVb_¥abbbabbaba_b
@HWI-EAS443:3:45:743:2017#0/1
AACTTTAGAGCCTATGTAGATGGATTTCGAGCCGAACGGCT
+HWI-EAS443:3:45:743:2017#0/1
Tb`Z¥QQ_ZTHZbTbZQR¥`V¥`MT]UaMZMa`^YR_aa
@HWI-EAS443:3:45:773:988#0/1
CCTTCATTATGTATTCAGTAGCCCTGCAGTGGGACACTTC
+HWI-EAS443:3:45:773:988#0/1
abb¥S_^`V[bbaa`aa`[aaa^`^a`XZWaS`YTVUZSS
@HWI-EAS443:3:45:800:845#0/1
ATTCGATTTCCATTTTCATCGACGAACGGGTGAATCAAT
+HWI-EAS443:3:45:800:845#0/1
aaaaa`a_aaa_^a` `__a_a_Xa[_[]_`_Z_^)]ZZ_
@HWI-EAS443:3:45:840:240#0/1
GATTTGAGATAATTGAAGGAAGAGACCGAATCATGGCCTG
+HWI-EAS443:3:45:840:240#0/1
[SU_TVN__]WQW]ZYZ[RT[ZaR]T]USZ[RZ]VMMQQ
@HWI-EAS443:3:45:919:1563#0/1
AGAAGCAATTTTCTCGATTCAGCCGAAAACCCCTCAAGTT
+HWI-EAS443:3:45:919:1563#0/1
^ZZaaR^[\` `¥^_N_aa__Y`M[a] []¥[YTXV¥UV]W]
@HWI-EAS443:3:45:979:1275#0/1
GGGGCATGGAATGAGGCGCTGCCTTCTTCAGTCTCTCA
+HWI-EAS443:3:45:979:1275#0/1
aaaaababa`abaaaaaaaaa__aa_aa]]a_a`_aU^_
@HWI-EAS443:3:46:1039:982#0/1
AAGAGCGAAGAGACAATTGAAGAAAAATTTGAGATTACA
+HWI-EAS443:3:46:1039:982#0/1
aba]a`bbba`¥a^`_`aaaZ¥¥[\`a`_`aaa_a` ` `¥_
@HWI-EAS443:3:46:1122:457#0/1
CGTCTCCACAACCTTGAGGGTTTTTCGGCTGAATCGAGAAA
+HWI-EAS443:3:46:1122:457#0/1
abbbbbbbabbabbbbbbbb_bbaabbabbbbaa_bbbbbbb
@HWI-EAS443:3:46:1140:363#0/1
CGTCTCCACAACCTTGAGGGTTTTTCGGCTGAATCGAGAAA
+HWI-EAS443:3:46:1140:363#0/1
a`S`aabZ¥Z]_W¥b[bbbb_a]WHaaa_a][X`a]a_aY
@HWI-EAS443:3:46:115:284#0/1
GCAGGTGCTAGCAGAGCTACAGGACATTGAAAATGAAGAG
+HWI-EAS443:3:46:115:284#0/1
ab^`_R^aaaa` `a_aaaa_aaa¥W`]aa_[-¥` `^`[\` `

@HWI-EAS443:3:46:1223:1732#0/1
CATTAAATCAGGCACTCCTCGATTGCTTCATATAGCCCCC
+HWI-EAS443:3:46:1223:1732#0/1
[_`aa]bbbba_b`b`bbb]bb_baaabaabb_`WY
@HWI-EAS443:3:46:1279:1822#0/1
CTTGGGGGCTATATGAAGCAATCGAGGAGTGCCTGATTA
+HWI-EAS443:3:46:1279:1822#0/1
_ba_V_aZ[XWbb¥JV`^`Wab`^`abaaZXZX]aaaaT
@HWI-EAS443:3:46:1296:1478#0/1
GAGGGGTTTTCGGCTGAATCGAGAAAATTGCTTCTCATTG
+HWI-EAS443:3:46:1296:1478#0/1
a^`ab_abaa___abaa_Za_aaaa`a`a__aZ`_``_a
@HWI-EAS443:3:46:1320:41#0/1
TCCACAACCTTGAGGGGTTTTCGGCTGAATCGAGAAAATTG
+HWI-EAS443:3:46:1320:41#0/1
[aa`abb`aa`]bb`b``¥b`bba`[[a_TOYba`a`Y`¥
@HWI-EAS443:3:46:1347:971#0/1
GGGGCATGGAAATGAGGCGCTGCCTTCTCAGTCTCTTCA
+HWI-EAS443:3:46:1347:971#0/1
`[^`^`^`a`T]^`a`a`a`^`_SZ`_Y`[^`^`YP]T]^UX
@HWI-EAS443:3:46:1373:302#0/1
CATCACTGTCATACTGTTTAAGTCTCCAACATCTTTGCA
+HWI-EAS443:3:46:1373:302#0/1
a^b`babbaabba_a`aabbabbaab_aa_W`b`aaab_a
@HWI-EAS443:3:46:1432:1136#0/1
CTTGGGGGCTATATGAAGCAATCGAGGAGTGCCTGATTA
+HWI-EAS443:3:46:1432:1136#0/1
abbbb_aaabaaaaab_aa_aaa`a]b`_a^a__aa]aa_
@HWI-EAS443:3:46:1444:1540#0/1
CGCTGATGGCAAAGAGGCCCATCAGGCAATCTGAGGGGGC
+HWI-EAS443:3:46:1444:1540#0/1
aaa^VXaa]^a`^]V`_Y]^Z¥]SGUX]^¥¥¥MSTU[^`BB
@HWI-EAS443:3:46:1478:38#0/1
GGGGTTTTCGGCTGAATCGAGAAAATTGCTTCTCATTGTT
+HWI-EAS443:3:46:1478:38#0/1
aa¥aI_a¥`_UV`U]LR¥T_NQUV¥^ZR^¥¥ZUZV^^TZ
@HWI-EAS443:3:46:1482:1012#0/1
GAAAGGCATAAATCCCAATTACCTCATGGCTTGAAGCAG
+HWI-EAS443:3:46:1482:1012#0/1
_X[]a_WXXXZ]VYVSX[UV¥XNV^YV¥¥BBBBBBBBBB
@HWI-EAS443:3:46:1543:68#0/1
CATTAAATCAGGCACTCCTCGATTGCTTCATATAGCCCCC
+HWI-EAS443:3:46:1543:68#0/1
_abb`abbabbbaaaa]a_ba`aaaa`_`a__a`^_ZZa¥
@HWI-EAS443:3:46:1588:936#0/1
GTAGATGGATTGAGCCGAACGGCTGCATTGAGGGCAAGC
+HWI-EAS443:3:46:1588:936#0/1
aW`__b^¥`a_aY¥^W_W¥Y¥WYWYSPQFQVW¥NTUPU
@HWI-EAS443:3:46:15:2033#0/1
CTTCATTTTCAATGTCCTGTAGCTCTGCTAGCACCTGCTT

+HWI-EAS443:3:46:15:2033#0/1
a^Z_Z`Va`]GQWWW[W[XBBBBBBBBBBBBBBBBBBBB
@HWI-EAS443:3:46:1647:681#0/1
GAACAAGCCAATTGAAGTGGGCACTCGGTGAAAATATGGC
+HWI-EAS443:3:46:1647:681#0/1
aYVV`]]XXa`[¥¥[_X_ZRT[]_L_QQU^^U]VZP
@HWI-EAS443:3:46:1655:167#0/1
GGGGTTTTTCGGCTGAATCGAGAAAATTGCTTCTCATTGTT
+HWI-EAS443:3:46:1655:167#0/1
`N`^R`_aW`¥V^Y`Y^W_VYSQUW¥¥¥T¥WWWTNWWXVS
@HWI-EAS443:3:46:1736:1497#0/1
GAGAAATGATACTGATGTGGTGAAC TTTGTAAGTATGGAG
+HWI-EAS443:3:46:1736:1497#0/1
a`^`_T`¥[_TXR[]ZXETMQVUW]¥[TWL TEUGQ_YZ
@HWI-EAS443:3:46:1763:320#0/1
GAGAAGATGTTGCCCGATTGAACATATCGCAAGCATGAG
+HWI-EAS443:3:46:1763:320#0/1
a`a`^``aa]`^^]¥^a¥__`^aY`_`^¥¥`YWY[VW¥¥W^
@HWI-EAS443:3:46:211:1953#0/1
GGACATTGAAAATGAAGAGAAGATCCCAAGGACAAAGAAC
+HWI-EAS443:3:46:211:1953#0/1
a`aaaaaa__aaaaaaaa`^_a__[[aa`_`^```_`aZ
@HWI-EAS443:3:46:236:1700#0/1
AATCAAAACTAGGCTTTTCACTATAAGACAAGAAATGGCC
+HWI-EAS443:3:46:236:1700#0/1
a^¥a`a``XWba`^aa`^^R¥aa`a`[H``Q_aaQQNUP
@HWI-EAS443:3:46:296:237#0/1
GCTGAAAGTCATCCATGGCTGCACAGGATGCATTGAGCAA
+HWI-EAS443:3:46:296:237#0/1
aaba_aaaSaa¥`^`[_baHa¥U^^^aPU_NV^¥LSLTX¥
@HWI-EAS443:3:46:299:1214#0/1
GACAAGAAATGGCCAGTAGGAGTCTATGGGATTCCTTTTCG
+HWI-EAS443:3:46:299:1214#0/1
aaa]]ba`aaba`_`a[]_`0`__^Z`_Y`[_a_Y____[[
@HWI-EAS443:3:46:310:1191#0/1
CCCGAATGCACTATTGAAGCACCGATTTGAGATAATTGAA
+HWI-EAS443:3:46:310:1191#0/1
_]H[Z_TZ]¥]]_`^_Z[¥`SW¥Y[TRa__]_`^`_¥Y^a]Z
@HWI-EAS443:3:46:311:237#0/1
CGAAAATCGAACTAACAAGTTTCTGCAATATGCACACA
+HWI-EAS443:3:46:311:237#0/1
ababbbbabaaaab_b^b`a`aaaaabaaaa`baaaaaa
@HWI-EAS443:3:46:396:794#0/1
ACATCTTCTCTATTTTCATCAAGTTCTATCCAGCTTGAAT
+HWI-EAS443:3:46:396:794#0/1
aabbb^aabbabbb`babbabbaabaaaaababbaaaa
@HWI-EAS443:3:46:413:1933#0/1
CAGTGATGAGCCAGAGCCCAGATCTCTAGCAAGCTGGGTC
+HWI-EAS443:3:46:413:1933#0/1
aUaJHP[ZQVR[aVFSTV_[JVZ¥S^VTT^ZUMPWTSUGM

@HWI-EAS443:3:46:421:1413#0/1
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+HWI-EAS443:3:46:421:1413#0/1
aXbb_`a]]_`aa_J^a`^Y`Z]aa]`a`aa``¥¥]_¥a_
@HWI-EAS443:3:46:436:357#0/1
AAAGAGCCTAACATAGTCAAACCACATGAGAAAGGCATAA
+HWI-EAS443:3:46:436:357#0/1
a`bbaaaaaaaaabababababaa`aaaaba`aa__aaaa
@HWI-EAS443:3:46:476:2013#0/1
CTTCTCCTATTTTCATCAAGTTCTATCCAGCTTGAATCAGT
+HWI-EAS443:3:46:476:2013#0/1
ab[OQ^TTa[a^`a_]_GX]]X^`a]^aaUV`a]WSQ¥aS
@HWI-EAS443:3:46:500:1000#0/1
TTGAGCCGAACGGCTGCATTGAGGGCAAGCTTCCCAA
+HWI-EAS443:3:46:500:1000#0/1
a`a`a``aaabaa``__]]¥[R[Z^ [HX^YVW^X[^]`¥
@HWI-EAS443:3:46:509:135#0/1
CTTGGGGGGCTATATGAAGCAATCGAGGAGTGCCTGATTA
+HWI-EAS443:3:46:509:135#0/1
abbbbb_babbbabbbababb`abbbaab^ba`aba__a
@HWI-EAS443:3:46:567:762#0/1
CATGGAAATGAGGCGCTGCCTTCTTCAGTCTCTTCAGCAG
+HWI-EAS443:3:46:567:762#0/1
a_bba`a`a_^a`¥_aa`]^aa`a_Z[_Z]X^^YXY_SY`
@HWI-EAS443:3:46:595:1832#0/1
GGGGCATGGAAATGAGGCGCTGCCTTCTTCAGTCTCTTCA
+HWI-EAS443:3:46:595:1832#0/1
^JYT^`^`]ZW]Xa_`^`a]`^MU¥`^Z^_^]KU[QOZUT
@HWI-EAS443:3:46:637:905#0/1
GGGGCTATATGAAGCAATCGAGGAGTGCCTGATTAATGAT
+HWI-EAS443:3:46:637:905#0/1
`bbbbbbbbbbbaa^baabaaaaa^aa```_aa``aa`_
@HWI-EAS443:3:46:696:1076#0/1
GGGCACTCGGTGAAAATATGGCACCAGAAAAGTAGACTT
+HWI-EAS443:3:46:696:1076#0/1
a_UXQXaaabKPNO[V]X[_aZ_ZU[[P_PZU¥H¥]]V[]
@HWI-EAS443:3:46:715:484#0/1
GTTCTGGTGGGAGACTTTGGTGGCAAGCTTGCGCATAGTT
+HWI-EAS443:3:46:715:484#0/1
UZ^V_aTabaXZM]aa`aa[`^][J[`a`^V[[^PT[Y]YY
@HWI-EAS443:3:46:719:237#0/1
CAGGAATATGCGCAAGCTTGCCGACCAAAGTCTCCCACC
+HWI-EAS443:3:46:719:237#0/1
a¥_a`_`Yaa_`aaaa^Y^^a`ZY_aa`^QVY¥Y]`XP
@HWI-EAS443:3:46:744:765#0/1
CAAAGAGGCCCATCAGGCAATCTGAGGGGGCGTGGTGTCTG
+HWI-EAS443:3:46:744:765#0/1
ab]bbabbaaa^aaaabaaaa^`^]`aaaaXa¥aaYYXN_
@HWI-EAS443:3:46:811:963#0/1
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+HWI-EAS443:3:46:811:963#0/1
^WXaaa¥bbaa¥` `aa`a`_`V¥`^S^a]S_P¥`^^XU[
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+HWI-EAS443:3:46:838:499#0/1
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+HWI-EAS443:3:46:839:504#0/1
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@HWI-EAS443:3:46:926:248#0/1
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+HWI-EAS443:3:46:926:248#0/1
^V[VJS^]¥`_aV_Z¥_^WQM¥TTS¥QQZ¥XTTY¥ZXKRV
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+HWI-EAS443:3:46:928:1365#0/1
a`bSLSbaaab]I^¥S^a`Z]a^a`]ZR[___Z_a^aW` `^
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+HWI-EAS443:3:46:930:88#0/1
abaaa[]_a^aa`^aZ[Z___]aa^_X_]`^_ZRZ^]YS_Y
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+HWI-EAS443:3:46:935:168#0/1
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@HWI-EAS443:3:47:1040:974#0/1
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+HWI-EAS443:3:47:1040:974#0/1
Xaaaa¥]ZQ¥_aabaabb¥b_]baaJvX`RwLbaXT]]K
@HWI-EAS443:3:47:1048:1233#0/1
CAGCTTGCTAGAGATCTGGGCTCTGGCTCATCACTGTCAT
+HWI-EAS443:3:47:1048:1233#0/1
^`_Zaba`_aabbaa]bP_[aa^abab^_]`^`S`_F_ab
@HWI-EAS443:3:47:1125:1229#0/1
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+HWI-EAS443:3:47:1125:1229#0/1
^__^_Z_^aaa`]_[Y_` `a__X_a`[`baaab][XOU[
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+HWI-EAS443:3:47:1161:1748#0/1
aa` `aa`a_aa`^^^`aa^¥___[[¥`_`^]_X]^` `]_`
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GAGAAAGGCATAAATCCCAATTACCTCATGGCTTGGAAGC
+HWI-EAS443:3:47:1192:927#0/1
aa_]V^baabbaaba^` `aaa` `^`_` `aa_a_TZLSTT
@HWI-EAS443:3:47:1346:1281#0/1
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+HWI-EAS443:3:47:1346:1281#0/1
`ba`^bbabb`^aaa_WY_V]`^VVY`ZNW¥^`_`_¥¥¥[T

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+HWI-EAS443:3:47:1388:160#0/1
a_FT_¥`a¥]aZ[`]Y_]`W_a`Y¥S]ZVSWLRY^Y]] [S
@HWI-EAS443:3:47:1425:1064#0/1
TTCCGATTTCCATTTTCATCGACGAACGGGGTGAATCAATA
+HWI-EAS443:3:47:1425:1064#0/1
_¥^_a^a_V¥^_^`_UY_]a[^a]] []¥` [Q[`¥]XS[^¥
@HWI-EAS443:3:47:1425:1750#0/1
GACCGAATCATGGCCTGGACAGTGGTGAACAGTATATGTA
+HWI-EAS443:3:47:1425:1750#0/1
a`_^aa`_]^`_`[_`_^TX__T^¥WZYQW¥_T¥WWW^XWT
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+HWI-EAS443:3:47:1458:1615#0/1
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@HWI-EAS443:3:47:145:1429#0/1
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+HWI-EAS443:3:47:145:1429#0/1
Kabab[H_b[¥¥W_W_bYaIa]aUL¥aHYW_V`WZa]TMG
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+HWI-EAS443:3:47:1464:468#0/1
a`aa]ba`_aa`]`a__a]aXZ¥^`ZZ^]____]^`^`XXW
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+HWI-EAS443:3:47:1482:1383#0/1
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+HWI-EAS443:3:47:1529:103#0/1
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+HWI-EAS443:3:47:1535:896#0/1
[`b^^`^aX^I`bbabaa]R]``¥Z¥aa^]aa` [Za`]
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+HWI-EAS443:3:47:1540:1656#0/1
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+HWI-EAS443:3:47:157:347#0/1
`aa^bbbbbbbb_bbbbbbababaab_ba_baabaa`aa
@HWI-EAS443:3:47:1589:1683#0/1
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+HWI-EAS443:3:47:1589:1683#0/1
aa_WY`_^a`[_Y^^_V_a`_]_¥_^_]Y^XTLV_XXX
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+HWI-EAS443:3:47:1681:1329#0/1
abbaaa]abbb`aaba`^^`^aa__aaaa^`aa__a`
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+HWI-EAS443:3:47:1720:490#0/1
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+HWI-EAS443:3:47:277:1152#0/1
ab_VX`aaa`Z_]Y]`b^`^Y`_Y]]`R]aLXTa_aa^Pa
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+HWI-EAS443:3:47:277:525#0/1
aaaaaaaaa`a``aaaa_a_^a¥_^a]_^`_[T^¥¥¥¥¥
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+HWI-EAS443:3:47:288:1754#0/1
_ba^bbbabbZa`abaaaa`[aa__a^¥`a__aSaaa^`a
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+HWI-EAS443:3:47:336:629#0/1
a`aaaa`a`a_a_`U^[_U]`U`a[`V][V_UY]^V`¥
@HWI-EAS443:3:47:346:502#0/1
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+HWI-EAS443:3:47:346:502#0/1
aa_aa_¥¥[^`a_`_Yaa_VW`OK¥_YU_RJ[___PZOZS
@HWI-EAS443:3:47:35:1666#0/1
GATGGCCACCAAAGCGGACTACACCCTTGACGAAGAGAGC
+HWI-EAS443:3:47:35:1666#0/1
]`bbbaa`^^`bb`_^_^_aaa`a]`^^`a[`]^`Z^^[¥]]
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+HWI-EAS443:3:47:440:1268#0/1
]Vba`_`_bb_abbbaba_Ta`b^aUaX¥ZaYP¥a`[Z]`Q
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+HWI-EAS443:3:47:466:1686#0/1
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@HWI-EAS443:3:47:473:1790#0/1
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+HWI-EAS443:3:47:473:1790#0/1
`bb`b¥`^`bbb`aaZ_W`aaa]XR]Xa^aWU`¥T]_]SQ

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+HWI-EAS443:3:47:508:130#0/1
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+HWI-EAS443:3:47:571:451#0/1
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+HWI-EAS443:3:47:595:1750#0/1
`ba_RR[]Wababaa`aX¥V`_PZT]a¥WXV][Y[Y_U_
@HWI-EAS443:3:47:605:836#0/1
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+HWI-EAS443:3:47:674:100#0/1
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a^ba_b`Vb_baaba_bYb__aa]a_`^R_`aa[aaa`Z_
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+HWI-EAS443:3:47:690:1245#0/1
_ZZ`X`ba_X¥ORT[``^`^_WQUTV]_ZXNUZ_X¥`
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+HWI-EAS443:3:47:716:245#0/1
ZGMZW¥`¥_¥a`^[]_ZY]a_a`YU[``][`aZ]¥^U¥`^Z
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+HWI-EAS443:3:47:764:884#0/1
a`a``abaa¥a[a``aaaaUVaaaa``_a`__^`_^____
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+HWI-EAS443:3:47:840:630#0/1
```b\_]\_`^VVSa`aa[Y¥b`YYaRPQQHPQQ\_JZ[Z¥][  
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CAGTGATGAGCCAGAGCCCAGATCTCTAGCAAGCTGGGTC  
+HWI-EAS443:3:47:845:936#0/1  
```^]¥aa\_^ab`^bba\_baaaaabaaaaX]b\_a[]`XY  
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GCGTCTCCAACTTGAGGGGTTTTCGGCTGAATCGAGAA
+HWI-EAS443:3:47:849:809#0/1
aab`aaaaa``_aaaabaaaU_`a^a`^```^Z_]`]^
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+HWI-EAS443:3:47:85:1415#0/1
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+HWI-EAS443:3:47:930:571#0/1
`Z¥a`U_`[_`[QWUQR[Z`Y`[XUUSSS¥]^PUZ_U¥^WN
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+HWI-EAS443:3:47:931:75#0/1
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+HWI-EAS443:3:47:949:1196#0/1
]M^^¥a]¥_]baaaa¥_a^M^aaa_^^a_^¥`aaa]]^¥_
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+HWI-EAS443:3:47:97:1310#0/1
a_aaba]a`a`_aa_aaa`a¥aaa_`¥¥`[_`_`^]X¥^
@HWI-EAS443:3:47:997:651#0/1
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+HWI-EAS443:3:47:997:651#0/1
abbababbbabbaaaaaa`a_b`_a_a__aa^aa``a``
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TGAAATTGGAGTAACACGGAGGGAAGTCCACATATATTAC
+HWI-EAS443:3:48:1021:214#0/1
_``a_aaa^^b^`__a^a`^`_`^^`WRQ¥]]____]a)`V
@HWI-EAS443:3:48:1041:599#0/1
GTACATAAATACGGCCTTGCTCAATGCATCCTGTGCAGCC
+HWI-EAS443:3:48:1041:599#0/1
a`aaaaaaaaaa_aa^`aa¥Y^]Z`_`^__XS¥_UZV^_W]
@HWI-EAS443:3:48:1084:654#0/1
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+HWI-EAS443:3:48:1084:654#0/1
````\_aaaba`b`[\_aZ\_a\_]\_``R\_Z``[`Y[YQO``^\_  
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+HWI-EAS443:3:48:1102:1468#0/1  
aa^a¥abb^a``]Wbaaa\_[\_`\_YW]`Z[\_]\_XZ^[\_]\_Z]XW  
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+HWI-EAS443:3:48:1246:92#0/1  
aa¥b`abbaaaaaa^Wa\_\_aa]\_aa`aa\_\_a`X]a^`¥  
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+HWI-EAS443:3:48:1274:1144#0/1  
abbab`abbabaab^baaaaaaaaaaaaaaaaaaa`aa`aa``  
@HWI-EAS443:3:48:1314:257#0/1  
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+HWI-EAS443:3:48:1314:257#0/1  
aab^\_ab`\_aba`\_`^b¥G\_\_`^aUM]]THQW^WNKX\_ZYY

@HWI-EAS443:3:48:1355:1236#0/1  
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+HWI-EAS443:3:48:1355:1236#0/1  
aa\_b\_aaaa\_aa\_R¥Waaaa`¥`TX]]a^a`aY\_^`^]  
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+HWI-EAS443:3:48:1364:429#0/1  
aaba^bbbbb`^baababa`\_a`\_\_`^`\_baaa`^a`aaa  
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+HWI-EAS443:3:48:1377:1426#0/1  
abba`bb]bb`^`bb¥bbbaaab^U¥]`\_aa[bbaaPa`  
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+HWI-EAS443:3:48:1382:1487#0/1  
ab]a```aa\_abba^bbaba`aaaabbaabab`^a\_ab`Z  
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+HWI-EAS443:3:48:1399:15#0/1  
aa`aaaa`abb`\_a`aab\_a`ab`\_]`\_`a`\_Z\_`^`  
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+HWI-EAS443:3:48:1420:1575#0/1  
aab\_aa`\_a`aaa\_aa```^a`aZ\_\_\_`XT\_`XX]P^]  
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+HWI-EAS443:3:48:1446:1634#0/1  
aaa\_¥aa¥\_abb`\_a[b\_\_aaa¥a[`\_`a^ZY`^V]]Z^  
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+HWI-EAS443:3:48:1493:778#0/1  
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+HWI-EAS443:3:48:1511:540#0/1  
aZ¥Z[bZ¥N\_b[[`]]\_a``]SY¥ZYVZU]`\_¥¥Z^Z\_SY¥  
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+HWI-EAS443:3:48:1537:1684#0/1  
a`b``abaaa```\_`\_`[aXNYaa[TY[¥^\_Z\_¥W^T[`¥  
@HWI-EAS443:3:48:1556:866#0/1  
GGGGGCTATATGAAGCAATCGAGGAGTGCCTGATTAATGA  
+HWI-EAS443:3:48:1556:866#0/1  
aaaa`]`aaaa`]\_]`^`a]aYa`T`U][¥\_aZ^`]^\_\_`^  
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+HWI-EAS443:3:48:1560:716#0/1  
TNbbbabbb``¥bb\_a\_U\_a`[`bba]`bba\_babbbab`  
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AATGAATTCAATAAGGCATGTGAATTGACTGATTCAAGCT

+HWI-EAS443:3:48:1582:1747#0/1  
aaba`aaa\_aaaa`aa`\_a\_]a`[aa\_\_[a`^]\_Y`[\_U^  
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GGTGAAC TTTGTAAGTATGGAGTTCTCACTCACTGACCCG  
+HWI-EAS443:3:48:1583:1038#0/1  
aa[a`\_]\_a\_ab\_\_\_a^[a]a\_]`\_`]^^a\_\_^]a\_WWY\_  
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abaaa`aa¥`^a\_^^`^\_aa^aa\_\_`[Z^¥[[]U^[V¥  
@HWI-EAS443:3:48:1663:1232#0/1  
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+HWI-EAS443:3:48:1663:1232#0/1  
a`^`^aaa`\_a^b]XZ`]¥``¥ZYX\_\_`TP]S]\_]Y]W`^  
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+HWI-EAS443:3:48:1703:1795#0/1  
aa`^\_[\_ab\_aa``abaa`a¥aa`^aa`¥`aa\_a]a^a\_\_  
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+HWI-EAS443:3:48:1708:267#0/1  
`a\_a^`]baaaaaaba`aaQ\_\_`a\_aa```W\_\_¥[^WY^^  
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+HWI-EAS443:3:48:1737:945#0/1  
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\_bX\_JV``a¥^]R0````]aR\_\_^PZ`\_U\_Wa\_aVX^OX\_  
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+HWI-EAS443:3:48:1785:1209#0/1  
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+HWI-EAS443:3:48:188:459#0/1  
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+HWI-EAS443:3:48:234:1109#0/1  
aa\_^Zaa\_^`^`^\_^^]\_\_^]\_\_^Y[Z\_^Y¥]V]VV\_]Y\_  
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ATCATGGCCTGGACAGTGGTGAACAGTATATGTAACACAA  
+HWI-EAS443:3:48:278:804#0/1  
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+HWI-EAS443:3:48:342:1014#0/1  
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+HWI-EAS443:3:48:380:1290#0/1  
Z`ZW\_Wb\_]\_WW\_\_\_\_\_`R[\_]R\_Y[[\_Y`a]aaa]X]Xaa  
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+HWI-EAS443:3:48:66:924#0/1  
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+HWI-EAS443:3:48:688:627#0/1  
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`QZa`a[\_^]YTR\_aY[Y^\_]^\_Ra\_ZWS\_^X^^]\_ZWY  
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+HWI-EAS443:3:48:990:258#0/1  
^^¥S^b\_W[\_T`IQ\_`[aaaa^]a¥aa`a^YJQ]^V¥]^\_  
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a`abbaababaaba`aaaa`a`a\_aaa`¥[\_`\_aaa\_aa



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@HWI-EAS443:3:49:1055:1491#0/1  
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+HWI-EAS443:3:49:1055:1491#0/1  
W\_aUb]``a`X`^\_bb^]b\_a¥I¥b^a```QG]UTbYaSa  
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+HWI-EAS443:3:49:106:891#0/1  
^\_¥\_\_\_\_\_`\_Wa[¥X\_`a]`bb[Zab\_a\_0\_¥¥\_[[YZ^b\_  
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+HWI-EAS443:3:49:1108:1316#0/1  
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+HWI-EAS443:3:49:1463:1754#0/1  
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+HWI-EAS443:3:49:1465:1469#0/1  
\_\_b`a¥`Z\_\_[\_\_babaaaa¥`a\_`T\_\_baYTYa\_Q\_^X`  
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+HWI-EAS443:3:49:1663:248#0/1  
Q¥\_a\_¥^a\_\_a`\_Z¥¥\_WY[b[[[\_]]\_¥R¥^0\_`]a\_\_  
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T¥a\_¥a^OY[^^Y^a^RYV]^RYX]P[JS¥¥N¥¥H[UPYW  
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+HWI-EAS443:3:49:1775:133#0/1  
Z¥Z]] [PY\_VSW]b\_Z\_`^ZQa]X^\_[TY¥aa\_a\_]`\_¥]

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`[\_a[babaa` `abaaaa^^Ya\_aa` ¥¥` ``U^aa¥a\_\_  
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`^bb^b\_S^¥` ¥Y\_a\_HT¥^^PUXTMXLW^\_^¥¥UJW]WF  
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\_V]`aaaabaZ`UZ]]Xa` [YV\_[¥`U\_\_¥]` ^¥` ¥¥Z\_¥  
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+HWI-EAS443:3:49:670:62#0/1  
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+HWI-EAS443:3:49:757:424#0/1  
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+HWI-EAS443:3:49:970:1345#0/1  
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+HWI-EAS443:3:49:972:1961#0/1  
S^\_\_[YW\_aZY[a\_SZP¥baa^`]Y]a`^aa\_]aa`a^U  
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+HWI-EAS443:3:49:976:961#0/1  
aa¥]aaa^a\_a^`¥aaaa¥]^`\_]a]a\_aa^a^`\_\_a\_a^  
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+HWI-EAS443:3:4:1052:1978#0/1  
a`bbbaabaV\_b`bba]bbaabaab^baab\_babbbbbbba  
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+HWI-EAS443:3:4:1082:294#0/1  
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+HWI-EAS443:3:4:1094:144#0/1  
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+HWI-EAS443:3:4:1112:1039#0/1  
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+HWI-EAS443:3:4:1114:1106#0/1  
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+HWI-EAS443:3:4:1240:1836#0/1  
a^aa¥b\_]Zba[aX[a`baa``aa`aa\_aYXaXa\_\_X[aS  
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+HWI-EAS443:3:4:1246:1650#0/1  
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+HWI-EAS443:3:4:1331:233#0/1  
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+HWI-EAS443:3:4:1348:1192#0/1  
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aa\_¥Z\_Z`Za`]`\_W\_\_\_W\_W\_`Y^T¥WW¥^S¥\_WWY¥WY  
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+HWI-EAS443:3:4:1569:1077#0/1  
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+HWI-EAS443:3:4:1691:850#0/1  
^^aX\_\_^^Ua`[\_`a\_aaab\_[a`\_^`\_]W\_]RR`X[¥T^  
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@HWI-EAS443:3:4:189:297#0/1  
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+HWI-EAS443:3:4:189:297#0/1  
aa`YF[YV[]Y[]XPY¥Z`VYTU]]]]UW[ZVYVV]Z¥TB  
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+HWI-EAS443:3:4:195:1317#0/1  
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+HWI-EAS443:3:4:228:749#0/1  
a¥aaa`a\_aa^`\_a\_]a`a\_[\_`\_Xa\_¥\_\_aX\_]\_^]]  
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+HWI-EAS443:3:4:233:988#0/1  
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+HWI-EAS443:3:4:243:1565#0/1  
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+HWI-EAS443:3:4:347:146#0/1  
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+HWI-EAS443:3:4:506:334#0/1  
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+HWI-EAS443:3:4:539:415#0/1  
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+HWI-EAS443:3:4:715:151#0/1  
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aaaaaaaa`aa`a\_aaaaaa\_ba`a^a\_a\_\_a^`aR]`\_\_`  
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+HWI-EAS443:3:4:770:883#0/1  
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+HWI-EAS443:3:4:828:1550#0/1  
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a^Y`YZXZ\_]P\_XT`G`T]^aa`a\_^GZR[X]¥HVXY^S  
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+HWI-EAS443:3:4:964:1483#0/1  
`W^a^VZ`YZ]TMY\_`aaY^^a]Y^Y¥U^Z\_]¥][QR^`^`



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abaaaaaabaaa`baa^a^a`\_a¥`^aaaa\_a`¥a^  
@HWI-EAS443:3:50:104:1464#0/1  
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+HWI-EAS443:3:50:104:1464#0/1  
abaa`a¥\_V]b`aaabaaab`aaa\_a]aa`aaXa]R]`  
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¥\_Zbba`a\_aa`Y¥\_bbaa`¥bb]`¥a^Uabab\_Z]UWW  
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+HWI-EAS443:3:50:1395:881#0/1  
aaaaa\_aa\_]\_`\_`\_a`a`\_]¥Z`\_Z`^¥`^\_¥^¥\_]`  
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a\_a]a`bb`aa\_bbab`\_aaaa\_\_a`V`a`Za\_R`a`^¥  
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+HWI-EAS443:3:50:1488:1094#0/1  
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a`U^`Z¥S\_a¥]^`a¥]\_\_Z[^a¥V^`[aa``XTTTU\_\_  
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+HWI-EAS443:3:50:1509:1240#0/1  
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+HWI-EAS443:3:50:1584:1559#0/1  
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\_[aababab^\_b]a¥\_aZbb`W\_`U`[b`U`^[b^b`aaa  
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+HWI-EAS443:3:50:1686:1499#0/1  
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+HWI-EAS443:3:50:169:1603#0/1  
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a`\_baabaa`\_aaaabaa`a\_aa]^aa`^a\_a`^^`a\_^\_  
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+HWI-EAS443:3:50:356:394#0/1  
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+HWI-EAS443:3:50:394:1355#0/1  
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@HWI-EAS443:3:50:628:1472#0/1  
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+HWI-EAS443:3:50:628:1472#0/1  
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+HWI-EAS443:3:50:658:1868#0/1  
a]H¥bb\_b\_\_\_\_SU¥`a`^abbaa``Waa`]G]aPV^]TY\_  
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GGGGGGCTATATGAAGCAATCGAGGAGTGCCTGATTAATG  
+HWI-EAS443:3:50:670:1267#0/1  
a``aaa`bab\_^`a\_\_aa`a¥`\_`a\_\_]\_^\_a\_\_a^`\_`  
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ATCGACGAACGGGGTGAATCAATAATTGTAGAATCTGGTG  
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a¥`baabGWJWaaa]aa\_`¥WP[^]^XPLWa^\_]O\_ZVDT  
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CTCCACAACCTGAGGGGTTTTCGGCTGAATCGAGAAAATT  
+HWI-EAS443:3:50:727:1035#0/1  
Z¥[`a\_[^\_\_abbbba^¥`¥^^¥`\_`¥a¥a\_aaa\_ab`  
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+HWI-EAS443:3:50:734:1277#0/1  
a\_^b`b\_bab`\_^a\_bba\_aaab]a\_baaT`aaba[b\_[Z  
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+HWI-EAS443:3:50:823:730#0/1  
aaa`b\_a^aaab\_\_aa\_a^``\_\_a\_\_a```a][X`a\_]`^  
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CGATGAAATGGAAATCCGAATACATGAAACAAACTTCCAA  
+HWI-EAS443:3:50:841:1152#0/1  
ab`aa`\_a`aa\_^`\_a`aba^aaa````\_a``^\_\_V`\_`  
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+HWI-EAS443:3:50:84:1617#0/1  
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+HWI-EAS443:3:50:907:1364#0/1  
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CACCACTGTCCAGGCCATGATTCGGTCTCTTCCTTCAATT  
+HWI-EAS443:3:51:1046:1764#0/1  
ab\_bbabaa\_aab\_]`a\_a`a¥^\_`]^¥a\_U]`aY^\_\_\_\_  
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+HWI-EAS443:3:51:1192:1218#0/1  
H]¥a`ZZ`a`^abbbbaaab`Z¥\_¥Z^¥a`X`a¥¥X`T  
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aaa[\_baa^\_aabaZ]aa`\_`\_`aaa^`\_aaa]`a[^\_[  
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+HWI-EAS443:3:51:1298:1393#0/1  
`abbR`aa]]`baX`\_a]`aab]Z`]L^`[U[`^a\_SY[`  
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AAGAATTCCTTGGTCATGTCTTTCTCTTTGACAGAAGACT  
+HWI-EAS443:3:51:12:805#0/1  
a`aXT\_\_]\_]a`aS\_]aaY\_a^¥^`\_aa`^RSZa]^a^^]  
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CATTAATCAGGCACTCCTCGATTGCTTCATATAGCCCCC  
+HWI-EAS443:3:51:1320:193#0/1  
abbaVa\_]\_aaaa]\_^Ya\_b^]¥`\_abb````¥`\_aaa`X`

@HWI-EAS443:3:51:1359:1823#0/1  
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+HWI-EAS443:3:51:1359:1823#0/1  
aab`a\_aa`\_\_[[a]b`a[\_Z`¥^^\_Z^[¥\_^]`Z\_\_\_Q  
@HWI-EAS443:3:51:1515:806#0/1  
GATGAAATGGAAATCCGAATACATGAAACAACTTCCAAA  
+HWI-EAS443:3:51:1515:806#0/1  
ababbbabbaababa¥baabba`abaabaaa``baaYa``  
@HWI-EAS443:3:51:153:1159#0/1  
ATCAGGCACTCCTCGATTGCTTCATATAGCCCCCAAGAT  
+HWI-EAS443:3:51:153:1159#0/1  
[\_``^a]baaaaa\_]\_¥aa`aa`aaaa]]X¥a)`V^`\_^  
@HWI-EAS443:3:51:1574:738#0/1  
AGAAGTTCGGTGGGAGACTTTGGTTCGCAAGCTTGCGCAT  
+HWI-EAS443:3:51:1574:738#0/1  
^`a\_¥V[]V]]¥aaZ[\_^]`¥P¥VZX¥`]]`¥`¥^Y\_U¥]  
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GGCATGGAAATGAGGCGCTGCCTTCTTCAGTCTTTCAGC  
+HWI-EAS443:3:51:1673:1760#0/1  
`\_[]\_b`^)`[][\_¥`VX\_Y¥¥N¥^[\_^\_W\_W`\_QVVG  
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TGCGTCTCCACAACCTTGAGGGGTTTTCGGCTGAATCGAGA  
+HWI-EAS443:3:51:1705:1410#0/1  
\_Z`aW`aab^`\_a]abaY^aba[\_a`Ta\_R\_a]\_[V`S`^  
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+HWI-EAS443:3:51:1711:856#0/1  
^abab\_bbbYb`aabbaabbbabbbabb`baa`abba]aI  
@HWI-EAS443:3:51:172:572#0/1  
GGCTTCTCTACCCCTGTTGTGTTACATATACTGTTACCA  
+HWI-EAS443:3:51:172:572#0/1  
aaaa\_]aaa\_````a`[\_`^\_ZZ\_\_\_^^U^a^[U^W[¥  
@HWI-EAS443:3:51:22:395#0/1  
CCTCCTCATGCTTGCATATGTTCAATCGGGGCAACATCT  
+HWI-EAS443:3:51:22:395#0/1  
abaabbbbbb^bbb^bbba````aaaaaaa``]`a^^`Z`  
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GTCCCCTGCAGGGCTACTGAATACATAATGAAGGGAGTG  
+HWI-EAS443:3:51:309:1753#0/1  
\_S\_Y¥]a]\_LZRQ[]]\_XN`[T¥^TZPTTWa`VZ^`QQJW  
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+HWI-EAS443:3:51:324:1002#0/1  
^¥`a\_aabbbbabbbabUbaa]abbbaba`\_aaba`a  
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+HWI-EAS443:3:51:476:725#0/1  
a`aab]V`\_a\_a]VXY`¥^^`]^aa]T^Sa`^aaU¥¥  
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+HWI-EAS443:3:51:494:1748#0/1  
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GGGCACTCGGTGAAAATATGGCACCCAGAAAAAGTAGACTT  
+HWI-EAS443:3:51:501:347#0/1  
]`\_`a]\_`¥\_X^0^`a^]]Z]WX^\_[X`a`\_]0^a`Z[`  
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+HWI-EAS443:3:51:619:822#0/1  
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AGCCCCCAAGATCGAAGTTCCAGTTCCAGTTGTCCC  
+HWI-EAS443:3:51:678:370#0/1  
^\_]SPY\_a]R¥PWPa\_^a¥LOQLG\_\_G`STU^F[XG[¥¥  
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+HWI-EAS443:3:51:705:1002#0/1  
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+HWI-EAS443:3:51:735:1954#0/1  
^`Ya````a\_aaa``bba]aaaaa^\_\_\_^a\_`^\_]\_\_a  
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+HWI-EAS443:3:51:810:1855#0/1  
`a\_QN\_X¥^aa`a]YXa\_\_¥WZa\_Y¥V\_aY``¥^X`¥NZ^  
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+HWI-EAS443:3:51:821:456#0/1  
a`[a\_`aaa^`aaaaab`a\_a\_\_```aa``\_\_a^^aaaV`  
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+HWI-EAS443:3:51:85:1080#0/1  
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+HWI-EAS443:3:51:85:507#0/1  
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GGGGGCTATATGAAGCAATCGAGGAGTGCCTGATTAATGA  
+HWI-EAS443:3:51:88:1684#0/1  
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GAGACTTTGGTCGGCAAGCTTGCGCATAGTTCCTGTAATC  
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aa¥`\_aa`abZ\_]\_Q\_a``Y\_`X^¥VaZ`\_]¥\_[aYV]  
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ATTCATTTTGGACCCAGCTTGCTAGAGATCTGGGCTCTGG  
+HWI-EAS443:3:52:1106:1445#0/1  
\_ba\_aabbaa^aa¥W]\_a^`a`aaa\_¥YZUa`^]\_`Saaa  
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+HWI-EAS443:3:52:1141:2035#0/1  
aaXR^a\_ab``¥\_b\_a`a`U`X`\_]Ya`^Z¥`]P]P[GU¥  
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+HWI-EAS443:3:52:1204:647#0/1  
`Z`a`a\_a]a`Z]]¥Rwa]\_^¥\_]\_a\_¥T¥^\_\_¥\_`\_W]U  
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a]]``¥^abaaaa\_bX¥b[^``\_aa[\_\_¥¥`Qa^NUXJQa  
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+HWI-EAS443:3:52:1270:1188#0/1  
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+HWI-EAS443:3:52:1276:1309#0/1  
a^aba\_aaaa`\_aaababaaa\_a`W][^a^\_Ya`\_a\_\_\_\_  
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+HWI-EAS443:3:52:1306:368#0/1  
]]\_`S]]``bbbaa``[Waaa\_b\_¥\_`¥]T[\_``]aaYaX  
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TCATCGACGAACGGGGTGAATCAATAATTGTAGAATCTGG  
+HWI-EAS443:3:52:1318:30#0/1  
aaab]aa\_a`\_]a\_\_`Xa`\_`^`^a^a`¥¥\_a^`^]]\_\_  
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+HWI-EAS443:3:52:1335:1211#0/1  
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\_bbbabbbbabbbbbaababb\_\_bb^bb``ab]b\_ba]a  
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+HWI-EAS443:3:52:1431:646#0/1  
a`a^`\_a\_a`\_\_a`\_`aa`\_]\_`^\_]\_ZY^]\_UZ]V]Y]  
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GAGGAAGTATTTTACAGCAGAAGTGTCCCACTGCAGGGCT

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CTGGTGACCCGAATGCACTATTGAAGCACCGATTTGAGAT  
+HWI-EAS443:3:52:1503:835#0/1  
abba[abaa\_aab\_Yaaaaaab\_aa`aa]^ ^baaaa\_\_a  
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+HWI-EAS443:3:52:1526:1317#0/1  
aaab\_\_ba^abXbbbb\_a[aaa\_Ua¥\_\_^`Vaa]\_¥¥`^`\_  
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+HWI-EAS443:3:52:1624:233#0/1  
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+HWI-EAS443:3:52:1658:1184#0/1  
abab[a\_bbaa`aaaaZb`^]aa`\_a¥`^`\_Ya` `[\_R[¥  
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+HWI-EAS443:3:52:1690:996#0/1  
\_\_bbabbb`\_\_`aaaabbaa]a^[\_`aaZ¥\_\_`^Z]b`¥]  
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L\_abab\_a`]M¥bb^AJ\_RT`ab\_TO^WH¥^¥a`ZH[a`I^  
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abbbb\_bb` ` \_abb\_bbbbaababaaabbaaaa`a\_`]a  
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aabbabb`aababaaaaba`aa\_aba` `aaaaabaa\_aa  
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GGGGGCTATATGAAGCAATCGAGGAGTGCCTGATTAATGA  
+HWI-EAS443:3:52:251:185#0/1  
a^]` ` ]\_`\_a`\_^¥[ ]^]R]¥`^W^WYRW¥\_Y]YUTQWW  
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`¥aa`\_aa^a\_a`b`\_`a\_baa` `aa\_[\_\_` ` `a`a\_\_aa  
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+HWI-EAS443:3:52:354:163#0/1  
\_`^aT¥baaZ^\_b`\_`a\_Z\_aa^``]aaa`]`¥]\_b` `[^  
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a[^a^a`Y` [¥[PZY\_OLLQTVZZVHYNQVSVNSRVZVRX  
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+HWI-EAS443:3:52:365:1040#0/1  
ab`aYa]¥GXY]¥ZXXZQPYZ^`S`W`^^` [R[\_¥UZJV[  
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+HWI-EAS443:3:52:374:1144#0/1  
aaaa]a`a\_aaaa\_ZRS[YZ[\_¥W[TL[W[`Z^ZZX^]  
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GAGGGTTTTTCGGCTGAATCGAGAAAATTGCTTCTCATTG  
+HWI-EAS443:3:52:377:1287#0/1  
\_ [``Ya0` ``aaZLY`ZL[\_a[aUZV^\_Z¥]X¥¥\_^[\_\_^  
@HWI-EAS443:3:52:403:1369#0/1  
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+HWI-EAS443:3:52:403:1369#0/1  
aa`\_aababba¥]a]aabVX]]a` `W¥`\_a]QX\_aaVGXX  
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+HWI-EAS443:3:52:432:1870#0/1  
a`^ [¥¥a\_`\_\_^`\_ []`^`^XXY]]\_] ]^W\_WX\_¥W\_Z  
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TTTGTTCCTCAAGAATTCCTTGGTCATGTCTTTCTCTTTG  
+HWI-EAS443:3:52:441:872#0/1  
a^¥baaaa\_` ]]a\_\_aaaZ^a\_`SR`aa\_Za` [[a\_a` [P  
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S¥^^]^bab¥bbba^bbba`K[a^bbbaba^[[ ] [¥T^Y  
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+HWI-EAS443:3:52:553:1792#0/1  
a]^`aV`\_aa^`\_\_`\_UKVaVU¥U^YXRZ^¥W]NZU[  
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+HWI-EAS443:3:52:576:830#0/1  
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aYb`\_a\_aS`\_`^^^\_a\_¥U`\_Y`\_¥a¥]^`^^`YTW  
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a`VS\_aaab`ba`¥Y]`X[a\_\_aaaaU^`YX`V\_a\_`^`^  
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+HWI-EAS443:3:53:1748:1145#0/1  
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+HWI-EAS443:3:53:304:1113#0/1  
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^¥XR[YX]aYZQT)`\_\_\_\_YWVY`\_¥W\_X¥0[SZTL[^^WW  
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+HWI-EAS443:3:53:603:782#0/1  
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+HWI-EAS443:3:53:663:339#0/1  
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@HWI-EAS443:3:54:316:605#0/1  
GAACCTTGACCGCTGATGGCAAAGAGGCCCATCAGGCAAT  
+HWI-EAS443:3:54:316:605#0/1  
a^a`aa^`\_`\_V\_a\_¥aa^\_\_\_YONY¥¥YUSQ¥TTPYX¥  
@HWI-EAS443:3:54:367:1084#0/1  
GAAAGGCATAAATCCCAATTACCTCATGGCTTGAAGCAG  
+HWI-EAS443:3:54:367:1084#0/1  
`]\_`a\_a`Y^[^W^`aZ\_^aUa\_`Saa\_[]`^\_BBBBBBB



@HWI-EAS443:3:54:369:1479#0/1  
AGACAATTGAAGAAAAATTTGAGATTACAGGAACTATGCG  
+HWI-EAS443:3:54:369:1479#0/1  
XT]\_UU¥\_¥YUJYWY\_\_a`]Y[]`]W]UOUVTXW[QBBB  
@HWI-EAS443:3:54:395:1205#0/1  
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+HWI-EAS443:3:54:395:1205#0/1  
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CACTTTCCCAATAGAGCCTTCCCTCCACTCCCCTGGGTGAC  
+HWI-EAS443:3:54:465:672#0/1  
a``bbbbbabab\_\_aaaaaa`aa`aaa`a`aaaa\_`Y¥  
@HWI-EAS443:3:54:511:954#0/1  
TATGCGCAAGCTTGCCGACCAAAGTCTCCACCGAACTTC  
+HWI-EAS443:3:54:511:954#0/1  
aba`\_]aa`a\_^a^aaa\_\_aa`¥^^`¥``U¥\_\_`^\_¥Z  
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+HWI-EAS443:3:54:604:679#0/1  
aa`\_[abbb`\_bba`\_RSbabb]bbbbaaX`¥]a^Q^a`  
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+HWI-EAS443:3:54:612:1145#0/1  
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+HWI-EAS443:3:54:61:391#0/1  
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+HWI-EAS443:3:54:639:1607#0/1  
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+HWI-EAS443:3:54:719:1130#0/1  
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GGAGGAACTATTTTACAGCAGAAGTGTCCCACTGCAGGGC  
+HWI-EAS443:3:54:723:890#0/1  
\_SZ^P]]\_T[a\_\_\_\_\_`\_^]¥Y¥VRK\_[]Z[W[]`SVZW\_P  
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+HWI-EAS443:3:54:740:1669#0/1  
abaabbbbbbbbb`b\_bba\_bb`abbbabaabbaab\_b  
@HWI-EAS443:3:54:744:1434#0/1  
AAGAATTCCTTGGTCATGTCTTTCTTTGACAGAAGACT  
+HWI-EAS443:3:54:744:1434#0/1  
`^aW\_\_abba^MZaaa`a`]Z`\_aaa`\_a`a\_\_`^`^  
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+HWI-EAS443:3:54:796:1609#0/1  
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+HWI-EAS443:3:54:815:486#0/1  
^b`b\_`b^``\_`a`¥bZaa`ab`bbb`a\_¥aba^`¥V\_a^  
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+HWI-EAS443:3:54:843:1897#0/1  
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+HWI-EAS443:3:54:881:680#0/1  
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+HWI-EAS443:3:54:982:450#0/1  
Za``aUa^^a\_J^bb`babaaKbaabbabb]K]\_a`a¥Y]  
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+HWI-EAS443:3:54:98:909#0/1  
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\_]¥aU^^R\_a]]VYV][¥[VY^STY[XNTT¥]]WU\_[YZ  
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+HWI-EAS443:3:55:1176:187#0/1  
a\_aa```ZYa`\_`\_U]ZYJY^\_WZZ^X[XZYXZUWRRX]Y  
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+HWI-EAS443:3:55:1177:198#0/1  
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+HWI-EAS443:3:55:1179:185#0/1  
abaaaabaab\_``bbbaabbaaa^abaa^]¥a\_aa`\_\_[a  
@HWI-EAS443:3:55:1205:12#0/1  
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+HWI-EAS443:3:55:1205:12#0/1  
``aa\_a`aaaaa`a`aa`aaaa`a`]a``]¥^]```U  
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+HWI-EAS443:3:55:1224:1209#0/1  
^`a`R`bb]]ba`a]aa^^a]^aa`bX\_b`\_aa\_aa0a\_  
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AGGGGTTTTCGGCTGAATCGAGAAAATTGCTTCTCATTGT  
+HWI-EAS443:3:55:1237:180#0/1  
I\_a¥¥Wa``\_\_a\_\_\_\_\_¥XWZb\_Z¥a\_ba^Z`\_RVX`]\_`

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\_\_b]abb`Yaa¥YPa\_L\_XS\_YU[^R[UX\_`]^[[T^^VY  
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+HWI-EAS443:3:55:130:1531#0/1  
Zaab¥a[]`aabaa`^^\_\_\_\_`]^aaa\_\_\_\_[[UX^  
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+HWI-EAS443:3:55:1319:1050#0/1  
aab`Z\_b`a`a[aa\_aa`a\_[]\_a`¥Za\_`\_aa\_`a\_\_a  
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+HWI-EAS443:3:55:1322:1190#0/1  
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+HWI-EAS443:3:55:1403:1376#0/1  
aaY^¥Yaaa\_]^`W`^^][`[¥aa^\_\_`\_[N`^\_[-`YV¥  
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+HWI-EAS443:3:55:1501:414#0/1  
aa\_ba^b\_S]]`a[Y`\_aaaaaY\_a¥\_`XZ`\_\_[X]`\_a  
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+HWI-EAS443:3:55:1530:1301#0/1  
aa[UX^^^\_aaba\_¥W]`¥\_`a[`R\_ZR`]UW]```¥\_Y\_  
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+HWI-EAS443:3:55:1569:1366#0/1  
aaab\_SUbV][NZaSaa\_\_\_\_P\_`^b\_]\_a`aa\_`a¥a¥\_  
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+HWI-EAS443:3:55:15:1051#0/1  
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+HWI-EAS443:3:55:1613:352#0/1  
^\_X\_U`^^^a\_\_\_\_[W\_Z\_a`a]V^]W^X^]XM[\_\_\_`^Y¥^  
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+HWI-EAS443:3:55:1778:1897#0/1  
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+HWI-EAS443:3:55:17:225#0/1  
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aa\_a`\_aaaab^aab^a`\_aa\_\_\_\_\_¥\_`\_`^]]Y]]V  
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+HWI-EAS443:3:55:224:12#0/1  
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+HWI-EAS443:3:55:284:89#0/1  
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+HWI-EAS443:3:55:329:1005#0/1  
aaa`aaa`¥`aaaa`\_a^[\_]\_\_a`]a\_\_`\_X^`\_^\_`^  
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¥¥Y¥H¥aWYb¥SWJ[]]aaY^XWY\_X\_bYX`HPXRVXW[\_  
@HWI-EAS443:3:55:43:1025#0/1  
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+HWI-EAS443:3:55:509:904#0/1  
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+HWI-EAS443:3:55:623:1062#0/1  
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+HWI-EAS443:3:55:860:950#0/1  
a\_¥SZ]NZH[XX]Z¥W¥`a`\_`^MW\_ZWMXO¥[\_a[^V\_  
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+HWI-EAS443:3:55:866:1222#0/1  
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GGGGGCTATATGAAGCAATCGAGGAGTGCCTGATTAATGA  
+HWI-EAS443:3:55:887:1381#0/1  
`aa`¥`a`baaaaa\_aaa\_^a`a`\_]a\_\_aa^a`\_``\_\_  
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+HWI-EAS443:3:56:1010:589#0/1  
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+HWI-EAS443:3:56:1048:1159#0/1  
aa`aa`\_\_N\_\_aaa`\_`^a\_X\_^]V`\_YY\_\_^\_WU^`\_  
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GCTTGAAGCAGGTGCTAGCAGAGCTACAGGACATTGAAA  
+HWI-EAS443:3:56:1098:1097#0/1  
aaaaab]aaa`aa¥]`\_`a]\_`\_\_a\_]a\_\_\_^`\_`[^\_]`  
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+HWI-EAS443:3:56:1112:1861#0/1  
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+HWI-EAS443:3:56:1132:618#0/1  
aaa`ba`aa`aa¥V`]Z\_[a`\_`^[\_[^a^¥^a^\_\_  
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+HWI-EAS443:3:56:1137:498#0/1  
X\_bbbb\_\_b\_]¥^`a`^`\_`^¥abaabbabbaaaab  
@HWI-EAS443:3:56:1189:363#0/1  
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+HWI-EAS443:3:56:1189:363#0/1  
\_baa[aa`^`a`\_abaa`\_`Xa`^`\_`\_]U[a]`R]^`a^`\_  
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+HWI-EAS443:3:56:1295:1633#0/1  
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+HWI-EAS443:3:56:1298:1278#0/1  
a\_\_a]W\_a`a^aa`^^`YHSUUX]]V]W[V]M^]]VFRY  
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\_b`^\_SaabbaYU`W`aaYHZZa`X`a`¥SXQXXaaY]Q

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+HWI-EAS443:3:56:1411:923#0/1  
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+HWI-EAS443:3:56:144:931#0/1  
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a`Y]a``\_bbWb\_``\_S`aP¥^^WW]]\_^^`\_R\_[¥Z\_¥  
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+HWI-EAS443:3:56:15:1042#0/1  
`aa^`aaaa\_aa[\_\_`aa\_^]\_^¥\_]^^\_]^\_]Y\_]\_^]¥  
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`bab`babbbbab`b[^bb`abbbbbbbbabbbbbba\_b  
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+HWI-EAS443:3:56:1650:229#0/1  
aaaa\_bab`b¥[a`aaaa^]][^Z`[a]\_a^a]^^`\_]U  
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+HWI-EAS443:3:56:166:614#0/1  
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+HWI-EAS443:3:56:169:1141#0/1  
`ba\_a[```¥U¥b^aW`¥LW^aY\_^`Zaaaaa\_a\_S]W]  
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+HWI-EAS443:3:56:1770:1773#0/1  
\_abbbabb`^bbbaabaabaaba`aba\_aaaa``a[b  
@HWI-EAS443:3:56:223:1509#0/1  
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+HWI-EAS443:3:56:223:1509#0/1  
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+HWI-EAS443:3:56:329:1473#0/1  
aa`a^¥^^`aaZPZ¥XU]^VZ]J¥PSO¥T\_VWZM[¥[TU[  
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+HWI-EAS443:3:56:368:247#0/1  
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+HWI-EAS443:3:56:418:1321#0/1  
R[RT^ZX\_UUTW\_[X¥aU¥^VR\_ZZaZZ\_WT`a[\_`\_\_QO  
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+HWI-EAS443:3:56:531:783#0/1  
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+HWI-EAS443:3:56:651:1216#0/1  
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+HWI-EAS443:3:56:652:168#0/1  
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a`aaa[`a\_\_¥a`a\_baaa`baa^^`aaa[`]^`aa\_\_a  
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+HWI-EAS443:3:57:132:675#0/1  
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+HWI-EAS443:3:57:1579:694#0/1  
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+HWI-EAS443:3:57:1709:126#0/1  
````aababaaa`babaaV^^aa]a¥]\_`\_\_\_\_`\_XVSS[a  
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+HWI-EAS443:3:57:1717:103#0/1
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aa^``Y`_a^_a`_a]aaY``__^___^_^^`_^]_B
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+HWI-EAS443:3:57:230:418#0/1
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_b`abbabb_ab`bUaa]`^a_a]``_a]a^ZaZSa_^
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abba^`Wa_b_a^_a`^^`___]^__]YU%^^]a`W]`^^
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+HWI-EAS443:3:57:502:736#0/1
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+HWI-EAS443:3:57:542:923#0/1
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+HWI-EAS443:3:57:621:1663#0/1
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+HWI-EAS443:3:57:65:111#0/1
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+HWI-EAS443:3:57:701:945#0/1
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+HWI-EAS443:3:57:705:191#0/1
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+HWI-EAS443:3:57:739:1404#0/1
`^_^_]`^^`^^`¥aaa^a¥^] ^S^^^_a]_Z_Z`^Z_
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+HWI-EAS443:3:57:821:1269#0/1
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+HWI-EAS443:3:57:945:828#0/1
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¥[\`^_aba`aX``aa^`]¥`a`a_]Z`aaaa_¥_`^`^____
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+HWI-EAS443:3:58:1479:1232#0/1
]`M^Taa_a_a[``aa^]__[XXa^_Z`][_^[Z¥_Za
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+HWI-EAS443:3:58:14:1387#0/1
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¥__aZU`b¥YS¥Y^a_aa``_^_Z`]WYV`_aa^a]W[___
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+HWI-EAS443:3:58:540:1097#0/1
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+HWI-EAS443:3:58:544:1365#0/1
^Xbabbbb¥^_Z`^`¥]¥Z_^aabbU``babab^`]Z_ab
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CAGCAAACCTTGTAGTTTCGATTTTCGATCTTCCCATA
+HWI-EAS443:3:58:60:1140#0/1
aaa`_Ya`aaaa`_W`_aR^[^_UTZUZUSYUW]ZXVV
@HWI-EAS443:3:58:621:1591#0/1
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+HWI-EAS443:3:58:621:1591#0/1
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+HWI-EAS443:3:58:691:1614#0/1
`bJaab`__bba`abaaaaaaaa]aaaa`a_aaaa`_
@HWI-EAS443:3:58:790:1257#0/1
GGGGGAGGGAATACCACTATATGATGCAATCAAATGCATG
+HWI-EAS443:3:58:790:1257#0/1
¥0____[`a¥__[X[^]`_`Y¥X¥Z^¥XZ^U_¥¥¥VZ_Z¥
@HWI-EAS443:3:58:790:823#0/1
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+HWI-EAS443:3:58:790:823#0/1
a`aaYaa`_````aabaab`a`_a`a`_aa_baa`_^_a
@HWI-EAS443:3:58:791:1066#0/1
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+HWI-EAS443:3:58:812:1995#0/1
aI[NPS[]¥a¥Zaa`V¥0^NY_YBBBBBBBBBBBBBBBBBB
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+HWI-EAS443:3:58:822:860#0/1
a`a_a`aaaa`U^`aaa`_aZZ^a[_a__`a]_]a¥Z[R_
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+HWI-EAS443:3:58:889:14#0/1
`a`W`aa]a`_`]T_[X^¥_^^`^¥V¥X^]_]W^^[^UVR
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+HWI-EAS443:3:58:897:1054#0/1
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@HWI-EAS443:3:58:903:805#0/1
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+HWI-EAS443:3:58:903:805#0/1
`bb]b`aba_aYaba_aaaaa_¥^¥X_baaaa_a[aa`
@HWI-EAS443:3:58:913:821#0/1
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+HWI-EAS443:3:58:913:821#0/1
a`aaaaa`^a_aaaa__`Z¥aa^¥``aUa` `a¥[]X[^a
@HWI-EAS443:3:59:1063:1483#0/1
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+HWI-EAS443:3:59:1063:1483#0/1
_[b_S_ab¥¥a__`ba[Yab¥bbb`bb_b`aa]ZTGN_Y
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+HWI-EAS443:3:59:1128:785#0/1
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a`a`ab`aaba`b^_a` `a`a`^`aa^` ` `X__¥UW^¥T
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+HWI-EAS443:3:59:1243:321#0/1
a`RN`XabHaa`ZVZ`YYT__[RX`TYFRTRHVPURUQGQU
@HWI-EAS443:3:59:1284:259#0/1
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+HWI-EAS443:3:59:1284:259#0/1
aaabaaaaabaabbaaaa`aa_a__aaaaXa`aYY]]]
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@HWI-EAS443:3:59:1335:206#0/1
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+HWI-EAS443:3:59:1335:206#0/1
`b`bba`babaabbbabaabbbbbbb`bbab_ba^TM^[`
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+HWI-EAS443:3:59:1409:1188#0/1
`bab_¥`aa]aa_baab_ba`babaa_babbXaa_X¥`__
@HWI-EAS443:3:59:1414:1607#0/1
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_`]aV]`ab_bbUba^b_aPWS^aaX_¥a¥YZTa`RTQSV

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@HWI-EAS443:3:59:1551:972#0/1
CTGGAACCTTCGATCTTGGGGGGCTATATGAAGCAATCGA
+HWI-EAS443:3:59:1551:972#0/1
aaWaZ^`a`_W_RXX^Xa[aaaaY_^¥a``M]Y]UQY¥S
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+HWI-EAS443:3:59:1595:1899#0/1
a`ab^^ZR¥^_a_PY_`aY^X]`Y`^baa_aQ^XYYZaSO
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+HWI-EAS443:3:59:1616:618#0/1
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@HWI-EAS443:3:59:1634:565#0/1
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+HWI-EAS443:3:59:1634:565#0/1
``bbbb_bbbbbabbbbabbaabababbbab^abb00^aI
@HWI-EAS443:3:59:1783:795#0/1
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+HWI-EAS443:3:59:1783:795#0/1
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+HWI-EAS443:3:59:208:85#0/1
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+HWI-EAS443:3:59:22:924#0/1
aabaaaba]^`aa^a_a^b_aa`aa`aaaa^_^_^]_YQ
@HWI-EAS443:3:59:269:1102#0/1
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+HWI-EAS443:3:59:269:1102#0/1
a¥`_`aaa`aaa`¥`__aW¥`¥_a`^_V__``¥^`^WWW]V
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+HWI-EAS443:3:59:314:839#0/1
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@HWI-EAS443:3:59:317:1143#0/1
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+HWI-EAS443:3:59:317:1143#0/1
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+HWI-EAS443:3:59:346:1400#0/1
_]aabb_X_[``abaS`_HUZRT[Z]a_R¥_YO[SJLQZY
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+HWI-EAS443:3:59:359:2008#0/1
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+HWI-EAS443:3:59:408:1459#0/1
aa`aaa^``aaaa_[^aY^a`^aa_``baa_```a^0_^Z
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GAACGGGGTGAATCAATAATTGTAGAATCTGGTGACCCGA
+HWI-EAS443:3:59:435:1425#0/1
`abaa_]aWaaa``aaba`baa^aa¥b`b`_U__IHRZU
@HWI-EAS443:3:59:531:1109#0/1
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+HWI-EAS443:3:59:531:1109#0/1
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@HWI-EAS443:3:59:583:1184#0/1
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+HWI-EAS443:3:59:583:1184#0/1
aa_bb`¥a`__`aaZXa[__aa_`Zaa_aaa_XXZZ^¥`Z
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+HWI-EAS443:3:59:613:644#0/1
a__[_`YR_baabaaaZ_]a``aab`Uaaa```_`PH`a`
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`¥Waaaa]¥¥a]aaaa``a`aaaa¥]^Za]¥H_TLUU^_[
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+HWI-EAS443:3:59:688:1147#0/1
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+HWI-EAS443:3:59:704:894#0/1
aa_T_W¥bb¥QY]`bbbUY`Z`aa[P^^`^_¥WVYJVaaY
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+HWI-EAS443:3:59:771:659#0/1
a¥]Zaabaaaa`¥a`a_a¥¥_aYI[_R_[aW^^PNU_ZN
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+HWI-EAS443:3:59:780:1310#0/1
aaa`^a^aaaa_aaa`aaa`a_aaa^aaa`a¥_``UP[^X
@HWI-EAS443:3:59:790:1547#0/1
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+HWI-EAS443:3:59:790:1547#0/1
ababbaababaaabaa`aa[aa_ababaaab`^`_`^ZZX_
@HWI-EAS443:3:59:863:1275#0/1
CTCCAGTCTCGGTGAGTGAGTGAGAACTCCATACTTACA
+HWI-EAS443:3:59:863:1275#0/1
``_`[_`aUWVVaa^KWHYa_XX]U[P]YH^aa[[TN]a`Y

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+HWI-EAS443:3:59:962:550#0/1
abaa_aaaaaaaaaa`a`aa`aa`aa_a]^a`[Z`_`_
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+HWI-EAS443:3:5:1033:1610#0/1
aab`aa__aaaa_`_`a__Zaaa^a`_`_0^_a¥Y`_
@HWI-EAS443:3:5:1077:1693#0/1
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+HWI-EAS443:3:5:1077:1693#0/1
]`b`]]`_`_b_W`]Vaaa`[]]aa[[V`aa`WM`^`^B
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+HWI-EAS443:3:5:1133:556#0/1
a`^`^Za¥`a_`][L^`Uaa¥¥Y`X^`¥¥V¥_Z[Z`Y_B
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+HWI-EAS443:3:5:1152:980#0/1
Y¥`X__YZ^V0¥aZ]^Za_[]`b`¥¥MVaabU[¥^ZV¥`a
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+HWI-EAS443:3:5:115:891#0/1
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+HWI-EAS443:3:5:1169:1357#0/1
a_aaa`VS__a[^a_]a]_a^`a_¥W`_`W]^`_]B
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+HWI-EAS443:3:5:116:1112#0/1
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@HWI-EAS443:3:5:1204:1463#0/1
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+HWI-EAS443:3:5:1204:1463#0/1
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@HWI-EAS443:3:5:1227:979#0/1
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+HWI-EAS443:3:5:1227:979#0/1
XabU_abbZ]]_bT¥`[bbb`aab¥X`babaaa_b_aab
@HWI-EAS443:3:5:1246:288#0/1
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+HWI-EAS443:3:5:1246:288#0/1
`bb`bbababab^`aab_`aa`Y_aab]b`^¥Y¥]``^^
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^babbbb_bbS_abba`aabaab^bbbbbbVHZ_bbbbaa
@HWI-EAS443:3:5:1342:1905#0/1
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+HWI-EAS443:3:5:1342:1905#0/1
abbab^_`baab_bb^^bSbbbb^abb¥abbba_b___ab
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+HWI-EAS443:3:5:1350:739#0/1
a`a[ba`^^_a`a_a_U_abb[¥Xa_a`a^RSa_a_`^M_
@HWI-EAS443:3:5:1394:648#0/1
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+HWI-EAS443:3:5:1394:648#0/1
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+HWI-EAS443:3:5:1466:1933#0/1
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+HWI-EAS443:3:5:1535:1617#0/1
U]bba[[_Y`a`b^T_bZb_a_T_X]]aa[`^Ya```b]_a
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+HWI-EAS443:3:5:161:1189#0/1
`R¥``^b__Q[^_0¥W]]S¥¥`[JV^UV_[FOLP]_BB
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+HWI-EAS443:3:5:1741:1616#0/1
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+HWI-EAS443:3:5:232:963#0/1
abbbbbaba`_^abaabaabaaaaaaa^a_`___ZaBBB
@HWI-EAS443:3:5:235:118#0/1
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+HWI-EAS443:3:5:235:118#0/1
a_a`_]`^`_X¥^^`^a^^^_Ya¥^^YSWWW¥WTP¥¥BBBB
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+HWI-EAS443:3:5:23:1764#0/1
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+HWI-EAS443:3:5:248:2037#0/1
a[0^__¥a`Y[^V_¥V^ZZ`^Y]¥_Ua_¥T_¥¥^W¥WTBB

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+HWI-EAS443:3:5:269:557#0/1
ababbabaab]`_¥`a¥_baaaaab`aaaaab__b^b_ab
@HWI-EAS443:3:5:270:710#0/1
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+HWI-EAS443:3:5:270:710#0/1
a`^^a]aaa`aa¥aT`a_`____YPX^_aa¥_a^[]_`B
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+HWI-EAS443:3:5:286:1430#0/1
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+HWI-EAS443:3:5:288:220#0/1
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+HWI-EAS443:3:5:413:1134#0/1
aaaaa^aa`abaaa`aaaaa]a_``_a_____a____`B
@HWI-EAS443:3:5:432:435#0/1
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+HWI-EAS443:3:5:432:435#0/1
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+HWI-EAS443:3:5:442:1612#0/1
^S^_`ab`T¥H¥[_aa[`S_aaa_`_a^`[Ua`X¥]NV^_
@HWI-EAS443:3:5:442:620#0/1
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+HWI-EAS443:3:5:442:620#0/1
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@HWI-EAS443:3:5:470:993#0/1
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+HWI-EAS443:3:5:470:993#0/1
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+HWI-EAS443:3:5:690:1313#0/1
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+HWI-EAS443:3:5:708:802#0/1
aa`Ya`WHU`bSaa[aa[`¥Y[a`_¥`Y¥ZXVaSU_`ZB
@HWI-EAS443:3:5:716:662#0/1
CATTCTTTGGCTGGAAAGAGCCTAACATAGTCAAACCACA
+HWI-EAS443:3:5:716:662#0/1
`bb`bababaa`aba`¥^ab^Z_[bS`a_b¥aaaa¥]aX^
@HWI-EAS443:3:5:752:1659#0/1
ATTAATCAGGCACTCCTCGATTGCTTCATATAGCCCCCA
+HWI-EAS443:3:5:752:1659#0/1
aab``b`aabY^a`_Sa^`_`ZHZWa`_Sa_^WTSQBB
@HWI-EAS443:3:5:77:482#0/1
GGGGGCTATATGAAGCAATCGAGGAGTGCCTGATTAATG
+HWI-EAS443:3:5:77:482#0/1
aaaaaaaaaaaaab`aa`baa`a`aa_aYa__aa__a`¥`_
@HWI-EAS443:3:5:795:1692#0/1
GGGGGCTATATGAAGCAATCGAGGAGTGCCTGATTAATGA
+HWI-EAS443:3:5:795:1692#0/1
a^a`¥]ab`_aa]_aaaaUaaQ__aaZYMX_aa__Ya¥a_
@HWI-EAS443:3:5:868:955#0/1
ATAATGAAGGGAGTGTACATAAATACGGCCTTGCTCAATG
+HWI-EAS443:3:5:868:955#0/1
aaababbbb_a`aab_]`bbabaabaab^YaaaaaX`aba
@HWI-EAS443:3:5:956:860#0/1
GCCCTGCTCTCTTCGTCAAGGGTGTAGTCCGCTTTGGTGG
+HWI-EAS443:3:5:956:860#0/1
a^a`_`a`^`^`][a¥]¥Xaa`S`ZT¥SYX^S^¥Y]BBB
@HWI-EAS443:3:5:958:1456#0/1
GCCCTGCTCTCTTCGTCAAGGGTGTAGTCCGCTTTGGTGG
+HWI-EAS443:3:5:958:1456#0/1
`a`¥`^^_a__a`aa[TaW_a¥^aS^``Z^`^XXUQ`
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GGGGAGGGAATACCACTATATGATGCAATCAAATGCATGA
+HWI-EAS443:3:60:1066:1325#0/1
Y_a^[a`bbba`^abbbb`a`a^bba``abbbaaa^aa`a
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ATATACTGTTCCACTGTCCAGCCATGATTCGGTCTCT
+HWI-EAS443:3:60:1086:616#0/1
abaaaabb``aaa`^aaa_a]aa_a`_`_`a^¥`][`]V
@HWI-EAS443:3:60:1100:27#0/1
GGCATGGAAATGAGGCGCTGCCTTCTTCAGTCTTTCAGC
+HWI-EAS443:3:60:1100:27#0/1
abb`a`baabab`a_¥a`aa¥¥`_`_a[^_^Z_S_^VZWW
@HWI-EAS443:3:60:1103:1252#0/1
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+HWI-EAS443:3:60:1103:1252#0/1
X]¥aba¥_W¥a_^[b¥[XYXNY_QVVYTXUSRXYZSOX
@HWI-EAS443:3:60:1153:435#0/1
GAACCTGGAACCTTCGATCTTGGGGGGCTATATGAAGCAA
+HWI-EAS443:3:60:1153:435#0/1
aaa__aaa`a`_a__a__Z`_`_`_`_`^`_`[[¥^^VS]_

@HWI-EAS443:3:60:1194:868#0/1
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+HWI-EAS443:3:60:1194:868#0/1
^^[a¥bbbabaa`b]a^Xa`aaaaaaaa_^]aaVaaaa_a
@HWI-EAS443:3:60:1289:998#0/1
AGCAGGTGCTAGCAGAGCTACAGGACATTGAAAATGAAGA
+HWI-EAS443:3:60:1289:998#0/1
aZ_aa^[`]^`^Z[X]¥]_^`X_aa]¥[_a^^^[aa][]_
@HWI-EAS443:3:60:1303:1512#0/1
GATTCAAGCTGGATAGAACTTGATGAAATAGGAGAAGATG
+HWI-EAS443:3:60:1303:1512#0/1
a¥Y`]^`^Waj_]`GMZW`^^]`_`_`_Z]`_`^^W`^^Y^Y_
@HWI-EAS443:3:60:1390:535#0/1
TTGGGGGGCTATATGAAGCAATCGAGGAGTGCCTGATTAA
+HWI-EAS443:3:60:1390:535#0/1
abbaaaaaaaaaabaaa`aa`a`^a_aa_]a^]`_]____
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+HWI-EAS443:3:60:1476:1071#0/1
a]P^a`X`aa`bbRJU`[`T¥^VGXP]TX_XWZRVXZFN
@HWI-EAS443:3:60:1515:54#0/1
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+HWI-EAS443:3:60:1515:54#0/1
aaZ`TUZ_LQ`V^^a_[]UY^SSZTFZVHN`PJQSQUUPT
@HWI-EAS443:3:60:1528:629#0/1
CACATTCACATCTTTTCACTTACTGGAGAGGAGATGGCCA
+HWI-EAS443:3:60:1528:629#0/1
ab`ab`bbaaaabbabaabaaa`a`aaaa__a__a_RXa
@HWI-EAS443:3:60:1532:149#0/1
GGGGCATGGAAATGAGGCGCTGCCTTCTTCAGTCTCTTCA
+HWI-EAS443:3:60:1532:149#0/1
aa`^`^`aa`^a`aaa`_a[_`ZUZ_Z`_^`_WT_Z¥[W[
@HWI-EAS443:3:60:1544:942#0/1
ACAAAATAAAATCTGAGAAGACACACATTCACATCTTTTC
+HWI-EAS443:3:60:1544:942#0/1
aaaaaaaaaaaaa_aaaa`a`_`_]`_aa`____¥a```¥
@HWI-EAS443:3:60:1546:979#0/1
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+HWI-EAS443:3:60:1546:979#0/1
a`ba^aab`]Zaaaa¥`aaa^a_ab`a^`a`_a_a____^`
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+HWI-EAS443:3:60:1575:928#0/1
aaabbababbbb`b^aaaabb¥b^aa`a_a¥aaaaa^]aZ
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ATGATTGGTCTCTTCTTCAATTATCTCAAATCGGTGCT
+HWI-EAS443:3:60:1611:1602#0/1
aaaaaa``[¥_a^`a`_a`_`_a__^Z_]`^]ZS`aX¥VY
@HWI-EAS443:3:60:1633:396#0/1
GGAGTTCTCACTCACTGACCCGAGACTGGAGCCACACAAA

+HWI-EAS443:3:60:1633:396#0/1
a^`a`a`a^a`a_a_aaa^^^a_a`]aa_`aU[Z_^Y_^`
@HWI-EAS443:3:60:1677:1626#0/1
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+HWI-EAS443:3:60:1677:1626#0/1
aaabaab_a__[]`aZ)`_aaaaa`^a`a[ZTUW_ZZ
@HWI-EAS443:3:60:1712:11#0/1
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+HWI-EAS443:3:60:1712:11#0/1
aa`__a[aaaa]___`_]__Y`Y]Z]_Y][U[VVZW]^X
@HWI-EAS443:3:60:1753:1908#0/1
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+HWI-EAS443:3:60:1753:1908#0/1
abb_ababaaaa`ZVa_a`¥ZXa¥[JUaX_]UU[aaGXZN
@HWI-EAS443:3:60:183:57#0/1
CATAAATCCCAATTACCTCATGGCTTGAAGCAGGTGCTA
+HWI-EAS443:3:60:183:57#0/1
abbbb_baaaa_baaaaaaaaaaaa`[YOY^YV¥MXQVQ
@HWI-EAS443:3:60:253:1582#0/1
TGTGAATTGACTGATTCAAGCTGGATAGAATTGATGAAA
+HWI-EAS443:3:60:253:1582#0/1
]aXbaaa`¥0b^^a`_aaaa`a`___`_`a__a`_^a^`S
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+HWI-EAS443:3:60:299:813#0/1
^b]`aaba[aaab_X`^a`baaaaa_`^`_]_`_a`aa`a
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+HWI-EAS443:3:60:339:208#0/1
U`¥`_S¥¥babbbbabaaa`^aaaa_0_HRZBBBBBBBBB
@HWI-EAS443:3:60:363:283#0/1
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+HWI-EAS443:3:60:363:283#0/1
aa_aaaa`_aa`aa_aa_]aa_]`_`^_]`[_¥PTY]Z]Y
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+HWI-EAS443:3:60:421:1207#0/1
abba`)]`aabbaaaaa_baaaaa`a`a__a`_`___`_a`
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CTTGAAGCAGGTGCTAGCAGAGCTACAGGACATTGAAAA
+HWI-EAS443:3:60:441:541#0/1
a_abbaaaaa`]_aaaaa`_aa_a_aaa^____a]____
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+HWI-EAS443:3:60:474:946#0/1
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@HWI-EAS443:3:60:486:658#0/1
TACGGCCTTGCTCAATGCATCCTGTGCAGCCATGGATGAC
+HWI-EAS443:3:60:486:658#0/1
abaaaaa_Z]_a_[¥aaa__`a`T]^a^]a¥_`_`[_^Z

@HWI-EAS443:3:60:519:958#0/1
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+HWI-EAS443:3:60:519:958#0/1
Y[¥Z^`ab_`a¥[W`b_T¥XZaYY`^`^b¥VY`bW]a`b
@HWI-EAS443:3:60:556:1318#0/1
ACCGAACTTCTCCAGCCTTGAAAACCTTTAGAGCCTATGTA
+HWI-EAS443:3:60:556:1318#0/1
]]ab]PH__^XWSSaa]_WWM_^Z^NPWT][X_Y]_TLXZ
@HWI-EAS443:3:60:610:1915#0/1
GGCCTGGACAGTGGTGAACAGTATATGTAACACAACAGGG
+HWI-EAS443:3:60:610:1915#0/1
a_a`a_a`^a`X^_V`aa_^a]a___^X_a^a^`^^__`
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+HWI-EAS443:3:60:64:351#0/1
a)`R[[]]POLQZXNXJMNUT]SPNPX[RPRQZSVVWSM
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+HWI-EAS443:3:60:679:1308#0/1
^a[^`babbbaaaaa^aaa]aa`a¥`]^a_RL^ZLSKV
@HWI-EAS443:3:60:680:221#0/1
AGAAGCCTAAATTTCTTCCTGATTTGTATGATTACAAAAGA
+HWI-EAS443:3:60:680:221#0/1
`URWJU¥¥b¥¥[_Z^aSR]_R]^]Xa`a__¥SUY`[W¥
@HWI-EAS443:3:60:694:683#0/1
TGAGAAAGGCATAAATCCCAATTACCTCATGGCTTGAAG
+HWI-EAS443:3:60:694:683#0/1
abaaabb_aabaaabaa````aaaaaa_```]^aQ__^^
@HWI-EAS443:3:60:773:1712#0/1
GGCACCAGAAAAAGTAGACTTTGATGACTGCAAAGATGTT
+HWI-EAS443:3:60:773:1712#0/1
`aaa_abaa_a_Wa0a`a^a_````_a_`^`]^`_]_X^
@HWI-EAS443:3:60:802:143#0/1
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+HWI-EAS443:3:60:802:143#0/1
aa`]a`aa`Z_a`aa`_a___`____Z_^_¥___]]X^
@HWI-EAS443:3:60:809:1731#0/1
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+HWI-EAS443:3:60:809:1731#0/1
aaZ[UX]^[\`T]^]^Y_a^¥__YZX^[\`^¥¥T]`ZTSN
@HWI-EAS443:3:60:815:745#0/1
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+HWI-EAS443:3:60:815:745#0/1
a`UZ[a`b¥^ab`aa`_¥Ua`¥[a^V]_aa`aa__[a`
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GTTCTCATATAGGAACATGGGCCTCGACACTTGGCCTA
+HWI-EAS443:3:60:830:522#0/1
aaaaaaaaaab`aa`baa`aa`_```a_¥a`__a___`a
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+HWI-EAS443:3:60:847:2024#0/1
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@HWI-EAS443:3:60:849:1293#0/1
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+HWI-EAS443:3:60:849:1293#0/1
Y^`_X^`bWX^¥`b`a_]QZ`^a_a_S_TUZ_Z`_X¥
@HWI-EAS443:3:60:872:1459#0/1
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+HWI-EAS443:3:60:872:1459#0/1
aabaabababbb`[a]¥^[[aa`_]W[[¥aX`TOVRP
@HWI-EAS443:3:60:911:426#0/1
ATTTTCACCGAGTGCCCACTTCAATTGGCTTGTCTCTTC
+HWI-EAS443:3:60:911:426#0/1
abbaa`a`_a_a]a__aa`aa`a_^_^`^GR]N¥W_aR
@HWI-EAS443:3:60:934:524#0/1
GTGCTAGCAGAGCTACAGGACATTGAAAATGAAGAGAAGA
+HWI-EAS443:3:60:934:524#0/1
aZV_a¥¥`_`[¥]]¥`aa]_`aaa^]X[_]Y_^ZZ[_]
@HWI-EAS443:3:60:961:254#0/1
AGAAGATGTTGCCCGATTGAACATATCGCAAGCATGAGG
+HWI-EAS443:3:60:961:254#0/1
aa]`aa_a[aa_]a`_]`_`^a^`_`^^Z^WP[RXVZV[]
@HWI-EAS443:3:61:1041:59#0/1
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+HWI-EAS443:3:61:1041:59#0/1
aaaaaa_aa`a_aa`a_aa_a_a¥aaaa[[¥_`^¥`¥VN¥
@HWI-EAS443:3:61:1050:1095#0/1
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+HWI-EAS443:3:61:1050:1095#0/1
abba¥`__``baa``XZ^aaba`_aa_U_a^Y¥¥`[R
@HWI-EAS443:3:61:105:1574#0/1
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+HWI-EAS443:3:61:105:1574#0/1
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@HWI-EAS443:3:61:1068:231#0/1
GCCGAGTCTTCTGTCAAAGAGAAAGACATGACCAAGGAAT
+HWI-EAS443:3:61:1068:231#0/1
a^_]_a]¥^_`_]`[]_]Y]]X]U]Z^XWXWZWWZZX
@HWI-EAS443:3:61:1121:225#0/1
TGCGTCTCCACAACCTGAGGGGTTTTCGGCTGAATCGAGA
+HWI-EAS443:3:61:1121:225#0/1
abaaaaaaa`a`aXabbaaabaVa``a`_`^^V^]`^]
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GGGGCATGGAAATGAGGCGCTGCCTTCTTCAGTCTCTTCA
+HWI-EAS443:3:61:1184:1046#0/1
`¥X¥U_[W[JY¥]a^PXZ][Z^YQJVNVUBBBBBBBBBB
@HWI-EAS443:3:61:1187:945#0/1
AATATGGGGAAGATCCGAAAATCGAACTAACAAGTTTGC
+HWI-EAS443:3:61:1187:945#0/1
ab`a`b¥ab`bb`^`babbaabaa`_Yaa`_]_X_]Y

@HWI-EAS443:3:61:124:38#0/1
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+HWI-EAS443:3:61:124:38#0/1
_abaab]aaa]``_a_a`____]¥LXU^_^Y]^^[^V^_]
@HWI-EAS443:3:61:1260:708#0/1
CGTCTCCACAACCTTGAGGGGTTTTCGGCTGAATCGAGAAA
+HWI-EAS443:3:61:1260:708#0/1
a``b``¥b¥¥abbb_bbab`baba_aaaabb^Za_a¥P^
@HWI-EAS443:3:61:1338:1132#0/1
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+HWI-EAS443:3:61:1338:1132#0/1
aaba¥`bbaaa``aa`[`aa`aaaa`^`[^^Y_¥[RUN¥
@HWI-EAS443:3:61:1343:1117#0/1
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+HWI-EAS443:3:61:1343:1117#0/1
¥¥b¥bbbababb_bb`babaabbbb`]Yba¥a`ab¥aaa
@HWI-EAS443:3:61:1358:1085#0/1
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+HWI-EAS443:3:61:1358:1085#0/1
S_a`ababXS¥T_]`[R^a`QFP][XPTS¥X^YVLL
@HWI-EAS443:3:61:135:748#0/1
CAGCTTGCTAGAGATCTGGGCTCTGGCTCATCACTGTCAT
+HWI-EAS443:3:61:135:748#0/1
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+HWI-EAS443:3:61:1403:441#0/1
abb`b_LW`^a_a^_¥^aaaa`a`_a^aa`ZMZ]U^YO
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+HWI-EAS443:3:61:1409:176#0/1
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@HWI-EAS443:3:61:1409:1914#0/1
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+HWI-EAS443:3:61:1409:1914#0/1
aaVa^U`^]a_a^ZY][``_`^`^`^`aUX_]aXSU_VQ
@HWI-EAS443:3:61:1484:1662#0/1
TTGGGATCTTCTTCATTTTCAATGTCCTGTAGCTCTGC
+HWI-EAS443:3:61:1484:1662#0/1
a_a^]^^^W`^ba_]aaabaabbaaa¥a`a`_]_^_TWZX
@HWI-EAS443:3:61:1541:1301#0/1
GGGGCATGGAATGAGGCGCTGCCTTCTTCAGTCTCTTCA
+HWI-EAS443:3:61:1541:1301#0/1
aaa`Z`aaa_a^a]`aaaa^_a``aa`_V[^UV[SWYUW
@HWI-EAS443:3:61:1561:194#0/1
CAGTGGTGAACAGTATATGTAACACAACAGGGGTAGAGAA
+HWI-EAS443:3:61:1561:194#0/1
abbbbbbbbbbbabbabbbbbbbbbbaabba]aa¥a__
@HWI-EAS443:3:61:1581:733#0/1
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+HWI-EAS443:3:61:1581:733#0/1
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+HWI-EAS443:3:61:1600:184#0/1
_bbbbbbbaabbababbbbbbbbbbbbabab`abba`_a
@HWI-EAS443:3:61:1672:1171#0/1
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+HWI-EAS443:3:61:1672:1171#0/1
`b`X^]aa[aY`__aaaaaaaa`Y_U_]W^ZU]^RQOYY
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+HWI-EAS443:3:61:1712:561#0/1
abbbaaaTaba`^`[]^`_Z`\$`_W_]ZV]VQ^[YS^U
@HWI-EAS443:3:61:1723:882#0/1
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+HWI-EAS443:3:61:1723:882#0/1
`aaa]`bba__aaa]^_baaaaaa`aaa`_^T][^_[OM
@HWI-EAS443:3:61:1756:25#0/1
GTCCTGTAGCTCTGCTAGCACCTGCTTCCAAGCCATGAGG
+HWI-EAS443:3:61:1756:25#0/1
aa````\$aa``^XPZ_[]YY\$U]YX_VXL\$XQRQWQJWY
@HWI-EAS443:3:61:194:1125#0/1
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+HWI-EAS443:3:61:194:1125#0/1
ab_Sabb^a`bbabaabab`a`aa`X^YW][X\$SF[___
@HWI-EAS443:3:61:248:761#0/1
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+HWI-EAS443:3:61:248:761#0/1
_____U[a^\$ZX`__[\$[\$[\$[\$U\$`\$^[WZT\$WWWUWU
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+HWI-EAS443:3:61:254:70#0/1
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@HWI-EAS443:3:61:286:1137#0/1
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+HWI-EAS443:3:61:286:1137#0/1
aaa`]^aa]^aa[]\$]_a_]W[_[`N___Y]TU\$XVWP[
@HWI-EAS443:3:61:286:117#0/1
GCTTGTCTCTTCATGTTCTTTGTCCTTGGGATCTTCTCT
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+HWI-EAS443:3:62:1647:1626#0/1  
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¥`[aZa¥`^L^a`]a][`\_]`^R¥V¥``[^^^Z^VZ[^[W  
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a¥`\_^`a0\_]a^^a]^`\_`[]\_a\_a0\_]^X^\_\_`\_]\_\_\_\_]  
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Z\_ZVa\_\_¥]b\_^\_b]\_^¥aY\_a\_a`a`WaVaa`a\_¥MZ

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+HWI-EAS443:3:64:1009:1161#0/1  
¥\_bb`bb`bbb`ababbaaaa`aa\_b][abababa`a`

@HWI-EAS443:3:64:103:701#0/1  
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¥`¥[[\_V]\_\_\_Q[`¥¥^T[]HXOU¥^^a\_WHXZ]¥W`W¥  
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]`U[baba\_a\_V\_^]\_b`JX^a^aa`\_Ia^`aa[¥^]Q^  
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+HWI-EAS443:3:65:187:1166#0/1  
abbb`aa\_T\_aa\_`\_`aaa¥VT`a^]a`aa]aaa\_W``a\_  
@HWI-EAS443:3:65:225:1212#0/1  
GAATTCCTTGGTCATGTCTTTCTTTGACAGAAGACTCG  
+HWI-EAS443:3:65:225:1212#0/1  
^PLQU`XJZbbX]\_Z]R`]]]YP]]]a]W[a]ZRXXQYU¥`  
@HWI-EAS443:3:65:226:283#0/1  
CTCCAATTTCAATGAACCGTTCTCTTTGTAATCATACAA  
+HWI-EAS443:3:65:226:283#0/1  
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+HWI-EAS443:3:65:277:1211#0/1  
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AGCCCCCAAGATCGAAGTTCCAGTTCCAGTTGTCCTC  
+HWI-EAS443:3:65:395:1482#0/1  
aV```^a`VV[] [XU^^PUMYU¥¥QSKPOPY]QRUQVTVQ  
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GACCCGAATGCACTATTGAAGCACCGATTTGAGATAATTG  
+HWI-EAS443:3:65:508:1785#0/1  
aaba\_a`^`\_aaaaa\_aaa]aa\_`[] [aa^Y\_\_¥Z^`\_  
@HWI-EAS443:3:65:515:911#0/1  
AAGAGGCGAAGAGACAATTGAAGAAAAATTTGAGATTACA  
+HWI-EAS443:3:65:515:911#0/1  
a`aaaa\_\_aa\_\_`\_\_`aa\_\_\_\_^Y^\_\_`a\_\_`^`^^`\_\_`  
@HWI-EAS443:3:65:522:573#0/1  
CTGGAGAGGAGATGGCCACCAAAGCGGACTACACCCTTGA  
+HWI-EAS443:3:65:522:573#0/1  
a\_^[]X`[U]abZT[`Waa[a`b¥Wbabb`^b` ]`a]aZ]  
@HWI-EAS443:3:65:543:850#0/1  
GAATACATAATGAAGGGAGTGTACATAAATACGGCCTTGC  
+HWI-EAS443:3:65:543:850#0/1  
`abb[b]aabb`a`aab`b\_Y\_aa[aaaabaa\_a\_\_`\_  
@HWI-EAS443:3:65:555:513#0/1  
GCTGGGTCCAAAATGAATTCAATAAGGCATGTGAATTGAC  
+HWI-EAS443:3:65:555:513#0/1  
abbaab¥bbbbbb`bbaaaaaaaaaabaaaab\_b\_Zaaaaa  
@HWI-EAS443:3:65:566:572#0/1  
GAAGTTCGGTGGGAGACTTTGGTTCGGCAAGCTTGCGCATA

+HWI-EAS443:3:65:566:572#0/1  
S`aa`abbb]WajYaabaab\_a]X`a]^^`aa]``[]\_  
@HWI-EAS443:3:65:578:233#0/1  
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+HWI-EAS443:3:65:578:233#0/1  
\_`aa`aaaa\_aabaaaabaa`baa`aaaa\_`aa\_`W\_`  
@HWI-EAS443:3:65:599:532#0/1  
AAGAATTCCTTGGTCATGTCTTTCTTTGACAGAAGACT  
+HWI-EAS443:3:65:599:532#0/1  
abba\_aabaaaaa^`aaa`aaa`\_`a`^`a\_a\_\_\_\_`  
@HWI-EAS443:3:65:618:1403#0/1  
GGTGAACCTTGTAGTATGGAGTTCTCACTCACTGACCCG  
+HWI-EAS443:3:65:618:1403#0/1  
ZaH]\_X¥`\_^\_\_b\_babbVa]U^aaa\_bbabaaX`\_`[]\_  
@HWI-EAS443:3:65:623:1043#0/1  
CAGAGCTACAGGACATTGAAAATGAAGAGAAGATCCCAAG  
+HWI-EAS443:3:65:623:1043#0/1  
ab``abb`ab`aa`aba^^aaaaa`a`\_`a`¥¥a`]  
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+HWI-EAS443:3:65:66:684#0/1  
^RR`]a^^aaXbaZ\_Q^UVaUUXOWUQF[Z\_]XSRPWR\_B  
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GGGGGCTATATGAAGCAATCGAGGAGTGCCTGATTAATGA  
+HWI-EAS443:3:65:698:743#0/1  
aaa`a]\_X\_abY`[aab]\_\_a[]^`]aZ[aa[a^]`\_^  
@HWI-EAS443:3:65:69:839#0/1  
TTTGGCTGGAAAGAGCCTAACATAGTCAAACCACATGAGA  
+HWI-EAS443:3:65:69:839#0/1  
ababababaZ`ba`a`a\_aaaaa`]^`\_`N^]^\_\_\_\_\_  
@HWI-EAS443:3:65:761:1349#0/1  
CATTCTTTGGCTGGAAAGAGCCTAACATAGTCAAACCACA  
+HWI-EAS443:3:65:761:1349#0/1  
`aaaaa\_`aa\_aaa^a\_¥WRaa`\_`[^]\_`a`\_^a^aa  
@HWI-EAS443:3:65:785:455#0/1  
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+HWI-EAS443:3:65:785:455#0/1  
aabbbbbbbbbbbbbbaabbababababaabbab`bab  
@HWI-EAS443:3:65:788:22#0/1  
GCCAGAGCCCAGATCTCTAGCAAGCTGGGTCCAAAATGAA  
+HWI-EAS443:3:65:788:22#0/1  
aYaa^`\_]\_^Z[¥ZY^V^¥U^Y¥VXNX^Y^V[W^Z[V\_^VX  
@HWI-EAS443:3:65:791:309#0/1  
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+HWI-EAS443:3:65:791:309#0/1  
[``a\_`bbabbb`aabbbabbaba]babbababaaab\_ab  
@HWI-EAS443:3:65:793:1895#0/1  
ACTCGGTGAAAATATGGCACCAGAAAAAGTAGACTTTGAT  
+HWI-EAS443:3:65:793:1895#0/1  
a`Y`\_`[Xa^```[\_\_UOW\_^\_^UT[[^^XaV\_X^^`Z^^

@HWI-EAS443:3:65:804:832#0/1  
CTTGGGATCTTCTTTCATTTTCAATGTCCTGTAGCTCTG  
+HWI-EAS443:3:65:804:832#0/1  
`^`aQ\_SOZaabb`^^W\$^aab`\$`aX^a\_a]^]XV\$W  
@HWI-EAS443:3:65:810:1354#0/1  
ATACTGTTCCACTGTCCAGGCCATGATTCGGTCTCTTC  
+HWI-EAS443:3:65:810:1354#0/1  
`aaaaa`aaa`aa`a\_`^aaa^^a`a[V^\_\_\_\_]Y]YY]^U  
@HWI-EAS443:3:65:841:507#0/1  
GGCCAATCGGAGAGTCACCCAGGGGAGTGGAGGAAGGCTC  
+HWI-EAS443:3:65:841:507#0/1  
[a]`a`a`aa`\_`Z`a\_`a\$```Z`Z\_`\$`\$T^YR\$`\$`\$ZZ  
@HWI-EAS443:3:65:873:535#0/1  
GCCAGTAGGAGTCTATGGGATTCCTTTCGTCAGTCCGAAA  
+HWI-EAS443:3:65:873:535#0/1  
a```aZ`]^`^Y\_a\$`\$aa`\$`\_aY\$^\$[]U\$^`PUY\_[ZZ  
@HWI-EAS443:3:65:884:974#0/1  
GGGGGCTATATGAAGCAATCGAGGAGTGCCTGATTAATGA  
+HWI-EAS443:3:65:884:974#0/1  
a^Z\_R^X`]^`\$`V]\$]\$]^]aQOKT\_\_\_\_\_ZUR\$^Z  
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GGGGGCTATATGAAGCAATCGAGGAGTGCCTGATTAATGA  
+HWI-EAS443:3:65:900:691#0/1  
a^\$aaaa`\_]aaaaaab^^\_a\_]\_^a^`\_[aaV\$W^^Y`\_  
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ATTGAAGCACCGATTTGAGATAATTGAAGGAAGAGACCGA  
+HWI-EAS443:3:65:908:2032#0/1  
]\_ba]aa`]^aaZ\_YbU]\$W\_a\_a``baZ\$\_]a`\_a`\_\_a  
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+HWI-EAS443:3:65:925:1248#0/1  
aa`aa`aba^aa\_aa`^aaaaaaaaaaaaaaaa`\_b\_\_a  
@HWI-EAS443:3:65:93:975#0/1  
GGGGCATGGAATGAGGCGCTGCCTTCTTCAGTCTCTTCA  
+HWI-EAS443:3:65:93:975#0/1  
aba``bbab``Yaaaaabaaa``a\_a`````W`Z\_\_\_\_^`\_`\_  
@HWI-EAS443:3:65:96:1411#0/1  
CGAAAATCGAAACTAACAAGTTTGCTGCAATATGCACACA  
+HWI-EAS443:3:65:96:1411#0/1  
aa``bbaaa`\$aa`a`aa^]a`\_`^``````\_``````]`^  
@HWI-EAS443:3:65:974:398#0/1  
GCTTGCTAGAGATCTGGGCTCTGGCTCATCACTGTCATAC  
+HWI-EAS443:3:65:974:398#0/1  
aaabbabaaaa`aaaaaaaaaaa`\_aaa```\_aa\$^`\_\_^  
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AAAACCCCTCAAGTTGTGGAGACGCATATAGACTGTTGAA  
+HWI-EAS443:3:65:981:309#0/1  
aabaaa``````a^`a^a`aa`\_a^`a`aa`\_`^`\_Z\_PNY  
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+HWI-EAS443:3:65:997:1034#0/1  
ab`\_`¥ba¥N\_^\_QN¥\_\_aa`[\_`\_0\_a¥aaa\_`Y^\_`^\_  
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TGAAAATGAAGAGAAGATCCCAAGGACAAAGAACATGAAG  
+HWI-EAS443:3:66:1003:1919#0/1  
a]]\_aaaaaaaa^`a¥\_a\_\_a`[a\_Y`a`\_^`^`^`^`\_  
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GAAAGGCATAAATCCCAATTACCTCATGGCTTGAAGCAG  
+HWI-EAS443:3:66:1022:1701#0/1  
abbbbbbbbbbbba^^]\_bbbba\_¥abaa\_aab^`UaXV^^  
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CCGATTGGCCATGTTTCCGATTTGTTTTCAAAGAATTCCT  
+HWI-EAS443:3:66:1051:1913#0/1  
ab`^)`a`\_\_[a^]\_^^^`\_\_\_\_`]U^a\_\_\_\_\_`]]]\_\_UW]  
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GGTGAATCAATAATTGTAGAATCTGGTGACCCGAATGCAC  
+HWI-EAS443:3:66:1097:1113#0/1  
aaWa```baab\_a`ab\_\_`aaaaa`\_ab``^a`\_aa\_^`  
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GCTCATCACTGTCATACTGTTTAAGGTCTCCAACATCTTT  
+HWI-EAS443:3:66:109:1053#0/1  
aba\_R\_aaaaa¥baaaa\_a`\_a[a][T``a^a[`aa\_a^¥  
@HWI-EAS443:3:66:1158:1754#0/1  
CTTCCCAATAGAGCCTTCCTCCACTCCCCTGGGTGACTC  
+HWI-EAS443:3:66:1158:1754#0/1  
T^`W[`\_bba¥X¥]\_Z[aW[]Xabba^Q¥¥VaZXG\_a[JV  
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CAGTGATGAGCCAGAGCCCAGATCTCTAGCAAGCTGGGTC  
+HWI-EAS443:3:66:1219:1168#0/1  
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+HWI-EAS443:3:66:1280:1467#0/1  
WT\_`)`][`aab\_T[Ua]\_ba\_ab`bb\_X\_a`aaa`[¥Z\_  
@HWI-EAS443:3:66:1288:326#0/1  
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+HWI-EAS443:3:66:1288:326#0/1  
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+HWI-EAS443:3:66:1338:523#0/1  
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+HWI-EAS443:3:66:134:1243#0/1  
abaa`a`\_aa^X\_¥^`\_\_\_\_`^`\_\_\_\_a``\_\_\_\_`]WX\_]ZV^



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+HWI-EAS443:3:66:1438:978#0/1  
abaa\_aaaaa\_aa`aaaaaa`\_`\_aa`\_`\_a`\_`\_a`aaa`  
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]`babb\_a`\_aaaaYa\_aaaabaaaaSbH`a¥aa`\_ab  
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+HWI-EAS443:3:66:153:716#0/1  
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+HWI-EAS443:3:66:1606:617#0/1  
IPQ\_\_^`aa¥V\_¥`\_SQ\_\_^[^U`\_ab`aW^^URQLT\_M  
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a`SSYZ`\_`a]aba\_Y]\_¥aQ^Y^L]ZNS\_YRYZaUW\_\_\_\_  
@HWI-EAS443:3:66:1661:1683#0/1  
CAGTGGGACACTTCTGCTGTAAAATAGTTCCTCCTCATGC  
+HWI-EAS443:3:66:1661:1683#0/1  
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TGGGGCATGGAAATGAGGCGCTGCCTTCTTCAGTCTCTTC  
+HWI-EAS443:3:66:1699:891#0/1  
aa^Z^aaaaaaa`aa`\_`\_\_\_aU`\_`\_]aaU`\_[\_\_\_\_^`Y  
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a¥\_aX\_YJERYa¥UXT^]R^ZVY\_PR^¥YSPHRU^MNUU  
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+HWI-EAS443:3:66:201:899#0/1  
aaabbab\_aabbbb`aab`\_`abaaabaabaaaa`aba]a  
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GGGGGCTATATGAAGCAATCGAGGAGTGCCTGATTAATGA  
+HWI-EAS443:3:66:210:1479#0/1  
aa¥`\_aabaaa\_a\_]`aa\_a`^`Z\_\_Y`\_`\_`^`\_`\_`\_]¥\_  
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@HWI-EAS443:3:66:501:1245#0/1  
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+HWI-EAS443:3:66:501:1245#0/1  
aa¥T[```\_]\_^a^`[]\_X\_]ZUY¥\_R[YZ¥S^T\_Y\_]  
@HWI-EAS443:3:66:52:233#0/1  
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+HWI-EAS443:3:66:52:233#0/1  
ab`a`\_a^^a`\_a\_a\_]`\_^\_W^][TTYTWNJUWWSQS  
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AAACTTTAGAGCCTATGTAGATGGATTGAGCCGAACGGC  
+HWI-EAS443:3:66:573:219#0/1  
a\_\_H\_b``ba`SZaba\_\_abaaaaaaaa¥`\_aaaa\_\_\_`\_^  
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+HWI-EAS443:3:66:615:449#0/1  
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TGGAAATCCGAATACATGAAACAACTTCCAAATGTGTGC  
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@HWI-EAS443:3:66:625:1048#0/1  
GGTGAACTTTGTAAGTATGGAGTTCTCACTCACTGACCCG  
+HWI-EAS443:3:66:625:1048#0/1  
aa\_aaaaaaaa¥aaa\_aa`\_`]^aaaa`\_a\_\_aa`\_\_`a  
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+HWI-EAS443:3:66:625:1245#0/1  
a`bb`a``aaaaaRa`^`\_a`\_Ta\_]Z[\_]X]¥V`^R  
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+HWI-EAS443:3:66:642:378#0/1  
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+HWI-EAS443:3:66:651:15#0/1  
ab^`b```a¥W`\_Z^`X^WT^aaa`aa^a^¥````\_¥^  
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+HWI-EAS443:3:66:657:829#0/1  
aaaa`aaaabaaaVa^aaa`\_``aaJa``\_X]a`\_]\_W\_^  
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+HWI-EAS443:3:66:709:310#0/1  
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@HWI-EAS443:3:66:739:1809#0/1  
TACGGCCTTGCTCAATGCATCCTGTGCAGCCATGGATGAC  
+HWI-EAS443:3:66:739:1809#0/1  
¥`ba^\_\_`^Za[aY[TY\_b`^^a¥N¥]a]a`^X]\_XR\_[P  
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GAAGATCCGAAAATCGAAACTAACAAGTTTGCTGCAATAT

+HWI-EAS443:3:66:794:1525#0/1  
`b`b`\_`abbbbaaaa` ``aababba\_aaaaab`aaaaa  
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+HWI-EAS443:3:66:848:331#0/1  
`a`\_aaba`]a`a¥QT¥0[W\_` `X`\_a`\_a` `Y`^`]R]\_  
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+HWI-EAS443:3:66:856:1183#0/1  
\_]X\_`Z` `[^a¥LVWTQ]¥\_a`\_]\_a]]]\_^` `a[^a[  
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a`aaaaab`aba^\_aa^b^a`aZ\_aa¥a`\_a`\_a\_]a^\_  
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GGGGGCTATATGAAGCAATCGAGGAGTGCCTGATTAATGA  
+HWI-EAS443:3:66:866:1484#0/1  
aaa¥`b`aaaaaaabbaaaa`a\_\_a^aa`\_a` `a\_X`¥  
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+HWI-EAS443:3:66:873:1003#0/1  
\_¥`abaa`\_a\_\_\_\_`\_¥YZZX` ``ZNXX¥[ `Y[USZXDUUV  
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GTTTCCGATTTGTTTTCAAAGAATTCCTTGGTCATGTCTT  
+HWI-EAS443:3:66:956:1065#0/1  
aP^aaab`¥]` `^` `a]Ta` \_\_\_\_a]P^aa` ^UaX\_a^\_aa  
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+HWI-EAS443:3:66:963:1578#0/1  
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+HWI-EAS443:3:66:963:540#0/1  
aaaa\_^aaaa`aaa`aaaa\_` `a`]¥a`¥[aa`\_^\_Y\_a  
@HWI-EAS443:3:66:963:809#0/1  
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+HWI-EAS443:3:66:963:809#0/1  
aba` `aababbbbaabbbbaaaaaa\_aabba`baba  
@HWI-EAS443:3:67:1002:1245#0/1  
GGGGGCTATATGAAGCAATCGAGGAGTGCCTGATTAATGA  
+HWI-EAS443:3:67:1002:1245#0/1  
aa` `abab`\_aa]` ``aaa\_a]`\_a\_aYa` `a\_aa` `^aa  
@HWI-EAS443:3:67:1015:992#0/1  
TATAAGACAAGAAATGGCCAGTAGGAGTCTATGGGATTCC  
+HWI-EAS443:3:67:1015:992#0/1  
\_bbaaY^`aa^X]`a^^aa\_UQX]\_WSR]¥`aU¥\_GZ^\_R  
@HWI-EAS443:3:67:1174:480#0/1  
GTGAACAGTATATGTAACACAACAGGGGTAGAGAAGCCTA  
+HWI-EAS443:3:67:1174:480#0/1  
]M]UDXZa]¥`\_^a¥^YY]T[[W[^\_\_XW[[YTSYYRMX]

@HWI-EAS443:3:67:1185:342#0/1  
CATCCATGGCTGCACAGGATGCATTGAGCAAGGCCGTATT  
+HWI-EAS443:3:67:1185:342#0/1  
abb\_`b`a\_aa`¥T¥aa]¥¥X¥aa]`a`aaa^W\_aYU^\_  
@HWI-EAS443:3:67:1210:254#0/1  
CAAGAAATGGCCAGTAGGAGTCTATGGGATTCCTTTCGTC  
+HWI-EAS443:3:67:1210:254#0/1  
abab`aa`ab`aba^^\_W\_U^a```aa\_\_a\_\_`aaZ^SP  
@HWI-EAS443:3:67:1226:188#0/1  
ATCAAAACTAGGCTTTTCACTATAAGACAAGAAATGGCCA  
+HWI-EAS443:3:67:1226:188#0/1  
aba`aaa`aaa`aaaa\_a\_\_`aa`]\_^a`\_`\_^\_^][R^  
@HWI-EAS443:3:67:1234:85#0/1  
GAGACCGAATCATGGCCTGGACAGTGGTGAACAGTATATG  
+HWI-EAS443:3:67:1234:85#0/1  
```\_^aa`\_]\_`a`\_V\_]\_]X^\_X]^Y]YXX^^XU^X\_\_  
@HWI-EAS443:3:67:1286:1638#0/1
CCCCGTTCGTCGATGAAATGGAAATCCGAATACATGAAAC
+HWI-EAS443:3:67:1286:1638#0/1
ab`ba]a]_``_Xb`aba`ab`abaVaTa_aa[aa`a`aY
@HWI-EAS443:3:67:1340:1860#0/1
GAACACAGTATTTTTCCCATTTGTGTGGCTCCAGTCTCGG
+HWI-EAS443:3:67:1340:1860#0/1
[abaZbbZVb^babb`_abaaa`a`^_aT__[ZFWJTQFU
@HWI-EAS443:3:67:1366:682#0/1
GGGGGGCTATATGAAGCAATCGAGGAGTGCCTGATTAATG
+HWI-EAS443:3:67:1366:682#0/1
abaabaa`aaabaaaaa`a^b`aa]aT``VaaZ`^`]]a
@HWI-EAS443:3:67:1442:1559#0/1
GGGCACTCGGTGAAAATATGGCACCAGAAAAAGTAGACTT
+HWI-EAS443:3:67:1442:1559#0/1
ab`abbbb`_aaaabbbb``_ba^baaaaa`Wa_a^aa
@HWI-EAS443:3:67:1480:388#0/1
CACTTTCCCAATAGAGCCTTCCCTCCACTCCCCTGGGTGAC
+HWI-EAS443:3:67:1480:388#0/1
a^T¥`a_aaba^ab_]a`]`Z`aa`aXaaY`^`^`aXZ^U
@HWI-EAS443:3:67:1485:1874#0/1
GCGTTCACCTTTTGGACATTTGGGAAAGCTTGCCCTCAA
+HWI-EAS443:3:67:1485:1874#0/1
aaaaa]a_aa]aaaa^aW`a¥_`Z_a``¥U`¥^¥WU^U`_
@HWI-EAS443:3:67:1488:92#0/1
CAAAGTCTACTTTTTCTGGTGCCATTTTTACCCGAGTGC
+HWI-EAS443:3:67:1488:92#0/1
aXZPWW^aW]aaaaa`_¥TOLSPV[_^¥]^]_^U^X[U^U
@HWI-EAS443:3:67:156:754#0/1
GGGGGCTATATGAAGCAATCGAGGAGTGCCTGATTAATGA
+HWI-EAS443:3:67:156:754#0/1
aa__[_`aa]aa_`]¥]_^_a[DWYaa_[a[^`^^_U
@HWI-EAS443:3:67:1572:1587#0/1
CGATTGGCCATGTTTCCGATTTGTTTCAAAGAATTCCTT

+HWI-EAS443:3:67:1572:1587#0/1
a`a_Z]ababb[ba][baaa^b`aa_`aa^]]aa]X`a
@HWI-EAS443:3:67:1673:1225#0/1
ACTCGGTGAAAATATGGCACCAGAAAAAGTAGACTTTGAT
+HWI-EAS443:3:67:1673:1225#0/1
aa_```abba^abaaaaU]^^^````^`Saa``aa_aa`
@HWI-EAS443:3:67:1691:1411#0/1
GGAGGGAATACCACTATATGATGCAATCAAATGCATGAAG
+HWI-EAS443:3:67:1691:1411#0/1
¥_^`a[¥bbbabbaa`aabaabaaa`baa_Y_aaaaa]
@HWI-EAS443:3:67:170:257#0/1
GTGGGCACTCGGTGAAAATATGGCACCAGAAAAAGTAGAC
+HWI-EAS443:3:67:170:257#0/1
ZYaaaa`a____]P_YO[`Y^^__^^ZZGX_Z_] [SWTQY
@HWI-EAS443:3:67:1727:1289#0/1
CCGATTTGTTTTCAAAGAATTCCTTGGTCATGTCTTTCTC
+HWI-EAS443:3:67:1727:1289#0/1
`aa_ab_b^b_babaaabbbbaababb`W`b¥a]abb¥b¥
@HWI-EAS443:3:67:175:515#0/1
AAACAACTTCAAATGTGTGCATATTGCAGCAAACCTTGT
+HWI-EAS443:3:67:175:515#0/1
`a]aaaW__^a_a`]_`¥`W^a`^^_]^^`]]^[]W^Y^Y
@HWI-EAS443:3:67:229:873#0/1
AAGCCAACAAAATAAAATCTGAGAAGACACACATTCACAT
+HWI-EAS443:3:67:229:873#0/1
aV_ab`aa[a`_`aaa^a_a`_a__````^`^`_`^`_]`^
@HWI-EAS443:3:67:274:1738#0/1
GGGGGCTATATGAAGCAATCGAGGAGTGCCTGATTAATGA
+HWI-EAS443:3:67:274:1738#0/1
VYS`a_S_SSNL^ZTa` `[``]¥[[P¥b^YWTPTP`IT¥
@HWI-EAS443:3:67:285:775#0/1
CGAAAATCGAAACTAACAAGTTTGCTGCAATATGCACACA
+HWI-EAS443:3:67:285:775#0/1
aaa`baabba^aa_aa_a__^`_`a`a`^`__`_`a`aa`
@HWI-EAS443:3:67:344:1964#0/1
CCTGCTTCCAAGCCATGAGGTAATTGGGATTTATGCCTTT
+HWI-EAS443:3:67:344:1964#0/1
abaaa`aba][a_a`])^X____^[V_]a]_[UY]^
@HWI-EAS443:3:67:557:821#0/1
GGGGGCTATATGAAGCAATCGAGGAGTGCCTGATTAATGA
+HWI-EAS443:3:67:557:821#0/1
^[`XY_aZaba`a`abb_¥`_a`a¥^a_`[`a^`_`^`_
@HWI-EAS443:3:67:709:873#0/1
CATAAATCCCAATTACCTCATGGCTTGAAGCAGGTGCTA
+HWI-EAS443:3:67:709:873#0/1
ab`bbb_babaab`[```aa_`^`a_]_VZ¥UUX[JWS¥]
@HWI-EAS443:3:67:725:904#0/1
CTGGTGACCCGAATGCACTATTGAAGCACCGATTTGAGAT
+HWI-EAS443:3:67:725:904#0/1
aaaa_aaaaaa`aa^a`a_aa`_aaaa`aZ`_`_`a__

@HWI-EAS443:3:67:746:343#0/1
GTGGGCACTCGGTGAAAATATGGCACCAGAAAAAGTAGAC
+HWI-EAS443:3:67:746:343#0/1
aabbaaaaa`aWaaaaaaaaaaaa`__a_]__`Wa__W
@HWI-EAS443:3:67:769:1046#0/1
CGGCTGAATCGAGAAAATTGCTTCTCATTGTTTCAGGCACT
+HWI-EAS443:3:67:769:1046#0/1
M``Y[]¥_]¥VQZT¥X`Y_^] ^Z`_aZaab`a_¥]¥Q¥¥b
@HWI-EAS443:3:67:809:275#0/1
AATACGGCCTTGCTCAATGCATCCTGTGCAGCCATGGATG
+HWI-EAS443:3:67:809:275#0/1
T^aa`bb_bVa]]b`abaaaaa_aaa¥a`b_[`abaa`a
@HWI-EAS443:3:67:868:1704#0/1
AGCAGGGCAAGAATCAAACTAGGCTTTTCACTATAAGAC
+HWI-EAS443:3:67:868:1704#0/1
a`]aZ^^[`a`aa`aaa____^FY`ZP_a`a`__a`SWD
@HWI-EAS443:3:67:896:912#0/1
CGGGGCAACATCTTCTCCTATTTTCATCAAGTTCTATCCAG
+HWI-EAS443:3:67:896:912#0/1
a`_`abaaabbabb`baaabbbaabaababaaaaaa`ba
@HWI-EAS443:3:67:89:614#0/1
GGGCACTCGGTGAAAATATGGCACCAGAAAAAGTAGACTT
+HWI-EAS443:3:67:89:614#0/1
aaabaaabab[baabaa`a[^`Z`_aa_]_T``Va^__^^
@HWI-EAS443:3:67:959:687#0/1
GGGGCATGGAATGAGGCGCTGCCTTCTTCACTCTTCA
+HWI-EAS443:3:67:959:687#0/1
aa`aa[aa__`^a^^]a_`Z^¥`W_`^_a¥Z`^¥_WV
@HWI-EAS443:3:67:967:554#0/1
AACAAAATAAAATCTGAGAAGACACACATTCACATCTTTT
+HWI-EAS443:3:67:967:554#0/1
aaabab`babaab`ba^aaaaa`aaaabaaa`a_aaa`
@HWI-EAS443:3:68:1037:869#0/1
CGTCTCCACAACCTGAGGGGTTTTCGGCTGAATCGAGAAA
+HWI-EAS443:3:68:1037:869#0/1
Q_```bbb`babbab```¥¥0_bbba[aabbab`b_`b`a
@HWI-EAS443:3:68:1046:1716#0/1
TTCTTGCCCTGCTCTTTCGTCAAGGGTGTAGTCCGCTTT
+HWI-EAS443:3:68:1046:1716#0/1
a`^X_¥b`aaaab`a`a]a^ab`a`XX¥LZ`YT]`X_`[
@HWI-EAS443:3:68:1050:958#0/1
ATGAAATGGAATCCGAATACATGAAACAACTTCCAAAT
+HWI-EAS443:3:68:1050:958#0/1
aaaa[a^a`Y_]``_a__`__]`a__^`^]]`^_[_]W`
@HWI-EAS443:3:68:1099:16#0/1
ATTCCTTGGTCATGTCTTTCTTTTGACAGAAGACTCGGC
+HWI-EAS443:3:68:1099:16#0/1
aabaabbba[ababaabaa[b^bbab``aaaa``_Yb_Z
@HWI-EAS443:3:68:1100:288#0/1
TCGGAGAGTCACCCAGGGGAGTGGAGGAAGGCTCTATTGG

@HWI-EAS443:3:68:1704:559#0/1
CTTTGGCTGGAAAGAGCCTAACATAGTCAAACCACATGAG
+HWI-EAS443:3:68:1704:559#0/1
aaaZabab`SS_`TW^GVa`_`^[^H^aab`^WR` `b^Y
@HWI-EAS443:3:68:1709:51#0/1
TAACATAGTCAAACCACATGAGAAAGGCATAAATCCCAAT
+HWI-EAS443:3:68:1709:51#0/1
aabababbaaaba`a`aba_a`aaaaY`b`aa_YWO`_`_
@HWI-EAS443:3:68:1727:298#0/1
TTTTACAGCAGAAGTGTCCCACTGCAGGGCTACTGAATAC
+HWI-EAS443:3:68:1727:298#0/1
]abY^bZaa` `[`R`ZS`XXZaa[Sa]`_`[Y`Y`YX_YN
@HWI-EAS443:3:68:199:594#0/1
TACATATACTGTTCACTGTCCAGGCCATGATTCGGTC
+HWI-EAS443:3:68:199:594#0/1
`[a`Yab`a`a`Wa` `_YUaaX`Y`^_a[V^RY^^RKTE
@HWI-EAS443:3:68:216:1353#0/1
CAGGTTTGTTCCTTCCGTCTTCTTTGGTCTTACATTTG
+HWI-EAS443:3:68:216:1353#0/1
aa`UFYaaP`_]YH]OX_a`]XR[SWVa`W`_S^^[F
@HWI-EAS443:3:68:252:1316#0/1
TTCAAAGAATTCCTTGGTCATGTCTTCTTTGACAGAA
+HWI-EAS443:3:68:252:1316#0/1
aba^Y^ZZb`abaabaZ_`aa_a`_`aba_a`_`a]aa_a`
@HWI-EAS443:3:68:256:112#0/1
GGGGGCTATATGAAGCAATCGAGGAGTGCCTGATTAATGA
+HWI-EAS443:3:68:256:112#0/1
VV_a`Y`Y`Y`a`Z]a]]`_`UZZ`_`V`SSUZaV[_`OZUNS
@HWI-EAS443:3:68:286:307#0/1
TTAATCAGGCACTCCTCGATTGCTTCATATAGCCCCCAA
+HWI-EAS443:3:68:286:307#0/1
a^W^`^UUT_Y_a`]_a[X^]XaZaZ]ZaUWWb]a^_]TJ
@HWI-EAS443:3:68:311:1079#0/1
CATTAATCAGGCACTCCTCGATTGCTTCATATAGCCCCC
+HWI-EAS443:3:68:311:1079#0/1
a` `b`bbb_]aaaaaaaa`abaaaaab`a`^a_^_]`
@HWI-EAS443:3:68:329:1780#0/1
GGGGGCTATATGAAGCAATCGAGGAGTGCCTGATTAATGA
+HWI-EAS443:3:68:329:1780#0/1
aa]]aaaaabaaaaabbaa_`aaaa` `Y[]_]`_`_`aa`_`a
@HWI-EAS443:3:68:32:1555#0/1
CTGTATTCAACAGTCTATATGCGTCTCCACAACCTTGAGGG
+HWI-EAS443:3:68:32:1555#0/1
aaT[aaa_`aa_Y]a`aaa^V`^^a`_`a`_`^`]`_`[]`^^^Y`
@HWI-EAS443:3:68:32:894#0/1
CGGCTGAATCGAGAAAATTGCTTCTCATTGTTTCAGGCACT
+HWI-EAS443:3:68:32:894#0/1
aaaaZ`V]]a]`a^X` `]^Y`Y`^^`_`TV`^`ZZ`_`_`[`_`Y`Y`
@HWI-EAS443:3:68:364:925#0/1
CGAATGCACTATTGAAGCACCGATTTGAGATAATTGAAGG

+HWI-EAS443:3:68:364:925#0/1
a^0]_``abbbaabaaaaaa[W]aaa_``_a`a`¥[``_`
@HWI-EAS443:3:68:418:290#0/1
TGTAATCTCAAATTTTTCTTCAATTGTCTCTTCGCCTCTT
+HWI-EAS443:3:68:418:290#0/1
¥^^[_ZJ_Y^aabbab^b^[aX]W___^a^]Y`]Z¥`
@HWI-EAS443:3:68:472:911#0/1
AGATGTTGCCCCGATTGAACATATCGCAAGCATGAGGAGG
+HWI-EAS443:3:68:472:911#0/1
[aaWb¥`_aa`_]_^^a`abaa^_Ya]a_]YTW_W[][_^V
@HWI-EAS443:3:68:482:1556#0/1
GACCCGAATGCACTATTGAAGCACCGATTTGAGATAATTG
+HWI-EAS443:3:68:482:1556#0/1
abbbaa_aabaa`aa`^_Z^aa````a_]a`_a_a_`
@HWI-EAS443:3:68:518:13#0/1
GTTCCACTGTCCAGGCCATGATTCGGTCTCTTCCCTTCA
+HWI-EAS443:3:68:518:13#0/1
`Y][`````aa___¥^`¥]W[^ZT[ZRW[UW[RSVVVW
@HWI-EAS443:3:68:571:617#0/1
AGATTCTACAATTATTGATTCACCCCGTTCGTCGATGAAA
+HWI-EAS443:3:68:571:617#0/1
abaaaa^aaaaaaaa`aaaaa_]a^_¥a_aaaaa^``
@HWI-EAS443:3:68:583:421#0/1
AGATAATTGAAGGAAGAGACCGAATCATGGCCTGGACAGT
+HWI-EAS443:3:68:583:421#0/1
`aabababbabaaaaaaaa`a`^a_`aa`a_a`_`¥a^^
@HWI-EAS443:3:68:585:1672#0/1
GGGAGTGACATAAATACGGCCTTGCTCAATGCATCCTGT
+HWI-EAS443:3:68:585:1672#0/1
^¥I¥aYU`V`a`[¥X¥`a^b`aY`S^_]S^XSUX^HUH
@HWI-EAS443:3:68:58:1277#0/1
CAAGCCAATTGAAGTGGGCACTCGGTGAAAATATGGCACC
+HWI-EAS443:3:68:58:1277#0/1
aaY]_aa`]aa`_Z0]^_`^`]^`^^RYU^__Y[[X^[]S
@HWI-EAS443:3:68:626:1159#0/1
CTGAATACATAATGAAGGGAGTGTACATAAATACGGCCTT
+HWI-EAS443:3:68:626:1159#0/1
aa_TXa^b`b¥Zab`[`Vb_a`b`aaaa^`aaaab`¥Z`a
@HWI-EAS443:3:68:718:872#0/1
CCACTCCCCTGGGTGACTCTCCGATTGGCCATGTTTCCGA
+HWI-EAS443:3:68:718:872#0/1
a_Waaab`U_ZRNZ]¥a`_`^]YU^]a^^[[UVa¥LXZN
@HWI-EAS443:3:68:71:885#0/1
GCCTTGCTCAATGCATCCTGTGCAGCCATGGATGACTTTC
+HWI-EAS443:3:68:71:885#0/1
abbabbbbaaXZabbaa`aZ_abaaaaaa`aa_R[a__a
@HWI-EAS443:3:68:781:744#0/1
GAGAAGCAATTTTCTCGATTGAGCCGAAAACCCCTCAAGT
+HWI-EAS443:3:68:781:744#0/1
aaaabaabab`a`ababX`aaa```U`_aa_]W`a_a]`W

@HWI-EAS443:3:68:795:2027#0/1
TCCACTCCCCTGGGTGACTCTCCGATTGGCCATGTTTCCG
+HWI-EAS443:3:68:795:2027#0/1
abbbbaaba_R^[NYaL¥]_`^`YS_GQUaaOFJ_G_ZD
@HWI-EAS443:3:68:824:277#0/1
GCATGGAAATGAGGCGCTGCCTTCTTCAGTCTCTTCAGCA
+HWI-EAS443:3:68:824:277#0/1
aa`_a]_a_`^`a_a`a__¥¥____`____aY`__¥_[V^]_
@HWI-EAS443:3:68:855:1322#0/1
GAAATAGGAGACATGCTCTTGAGGACTGCGATAGGCCAAG
+HWI-EAS443:3:68:855:1322#0/1
[baabaa¥]`bbbaabaaaaaaaaaaaaaaaaa^a_a_`_]_
@HWI-EAS443:3:68:867:62#0/1
CACACATTCACATCTTTTCATTCCTGGAGAGGAGATGGC
+HWI-EAS443:3:68:867:62#0/1
a]b`V[baUb^W_¥`a[``bb`[b_Z_b]a]baaaSb^NV
@HWI-EAS443:3:68:873:700#0/1
CAAACCTCCAAATGTGTGCATATTGCAGCAAACCTGTTAG
+HWI-EAS443:3:68:873:700#0/1
abbaabbabbbbbb_babbbb_bbbbbabb`aabbbaaab
@HWI-EAS443:3:68:933:1445#0/1
GGGCAACATCTTCTCCTATTTTCATCAAGTTCTATCCAGCT
+HWI-EAS443:3:68:933:1445#0/1
aa`^bYU_^_aaaHLaWTYQ]SX^T¥¥Z]]Y_dW]`IG_^
@HWI-EAS443:3:68:93:70#0/1
CAAAGAGAACCGTTCATTGAAATTGGAGTAACACGGAGG
+HWI-EAS443:3:68:93:70#0/1
abaab]aaV`aaa^^_S_]aaaaaaaa^¥`W_`a_____`]
@HWI-EAS443:3:68:980:463#0/1
GGCATGGAAATGAGGCGCTGCCTTCTTCAGTCTCTTCAGC
+HWI-EAS443:3:68:980:463#0/1
a`Za_a`_`X¥`_¥^`____^_]_Y^^^Y_Z[_^`^W¥X¥
@HWI-EAS443:3:69:1037:1880#0/1
AAGAGCCTAACATAGTCAAACCACATGAGAAAGGCATAAA
+HWI-EAS443:3:69:1037:1880#0/1
ab_[T`__abaaYaXXa`aaWX]^a`_`XaaP[_¥a^_a_
@HWI-EAS443:3:69:1045:629#0/1
ATTTTGGACCCAGCTTGCTAGAGATCTGGGCTCTGGCTCA
+HWI-EAS443:3:69:1045:629#0/1
[a^_]Z¥aa`WD^^`X_¥X]a_] [[]a`ZP]]]]a¥Y]____
@HWI-EAS443:3:69:1072:505#0/1
GGGGGCTATATGAAGCAATCGAGGAGTGCCTGATTAATGA
+HWI-EAS443:3:69:1072:505#0/1
ababbabbbbbbababaa`a`ba`a_ba_aaaaaaaa`a
@HWI-EAS443:3:69:1081:275#0/1
CGTCTCCACAACCTGAGGGTTTTCGGCTGAATCGAGAAA
+HWI-EAS443:3:69:1081:275#0/1
`abbbabbbabababbbbbb_abbabaaa]baa_a`a`aa
@HWI-EAS443:3:69:1092:823#0/1
TTTGAGATTACAGGAACCTATGCGCAAGCTTGCCGACCAAA

@HWI-EAS443:3:69:164:1353#0/1
GAAAGAGCCTAACATAGTCAAACCACATGAGAAAGGCATA
+HWI-EAS443:3:69:164:1353#0/1
ab¥`abbbba^bab]b_]abbb^aaaaa^a`aa__aa`
@HWI-EAS443:3:69:1658:242#0/1
GTCCAGGCCATGATTCGGTCTCTTCCTTCAATTATCTCAA
+HWI-EAS443:3:69:1658:242#0/1
aa_]ab`aaaba`aa`ba^¥_W`_ZYa`T^]aa__Q[M¥`
@HWI-EAS443:3:69:1662:926#0/1
CATTCTTTGGCTGGAAAGAGCCTAACATAGTCAAACCACA
+HWI-EAS443:3:69:1662:926#0/1
aabbbbbbbbabbaabbabbaabbbabbbba`bab``aaa
@HWI-EAS443:3:69:170:307#0/1
CTGCACAGGATGCATTGAGCAAGCCGATTTATGTACAC
+HWI-EAS443:3:69:170:307#0/1
aaaba`aa]a_¥a``_[¥`_`_]_`aWW¥a]^`V^Z[T
@HWI-EAS443:3:69:197:798#0/1
CGGCTGAATCGAGAAAATTGCTTCTCATTGTTTCAGGCACT
+HWI-EAS443:3:69:197:798#0/1
aZZa`^YNN_[`a`Y__[OV_^]XFXW[IOY¥VX_^V^
@HWI-EAS443:3:69:229:787#0/1
AAAGAGCCTAACATAGTCAAACCACATGAGAAAGGCATAA
+HWI-EAS443:3:69:229:787#0/1
S[Zaab^babababba]baba_abbb`a`_a_a_aaaaab
@HWI-EAS443:3:69:287:415#0/1
GGCAACATCTTCTCCTATTTTCATCAAGTTCTATCCAGCTT
+HWI-EAS443:3:69:287:415#0/1
aaaaaa_aaaaaaaaaaaaaaaa`a_ZZ^_a_a`_`]a__]
@HWI-EAS443:3:69:302:853#0/1
GGGCACTCGGTGAAAATATGGCACCAGAAAAAGTAGACTT
+HWI-EAS443:3:69:302:853#0/1
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CGAATGCACTATTGAAGCACCGATTTGAGATAATTGAAGG
+HWI-EAS443:3:69:441:331#0/1
a`_`abb_bbabbaaaaaabbbbaa]a`baa`aa`a`aaa
@HWI-EAS443:3:69:46:905#0/1
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+HWI-EAS443:3:69:46:905#0/1
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GAGACATGCTCTTGAGGACTGCGATAGGCCAAGTGTGAG
+HWI-EAS443:3:69:519:632#0/1
^O¥_]Z`TWP_aaYVR__NJ^Ya`UQYFWW]P[POGSX[U
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+HWI-EAS443:3:69:606:866#0/1
abab]`b`][^a`^baa]^Q^a_aaaa`W]]aab`b`_`Z
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+HWI-EAS443:3:69:610:1540#0/1
a__baaaY`Z_`a¥`_`_`P`[¥a`^a_`a`_]`_^_^^a
@HWI-EAS443:3:69:616:1295#0/1
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+HWI-EAS443:3:69:616:1295#0/1
`a`_]`a___RZTIR__XOP_^`_]`^]V^G¥^_]Y^VXY
@HWI-EAS443:3:69:619:1320#0/1
TTTTGGACCCAGCTTGCTAGAGATCTGGGCTCTGGCTCAT
+HWI-EAS443:3:69:619:1320#0/1
aa¥I¥_¥aa_`¥b`VY_S`NX]XP`^Y¥^_[a¥__[V^ZP
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+HWI-EAS443:3:69:631:1571#0/1
abbabbbb`aa]^aabab`aa`¥`_VZ`^__^P__X][SX
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`[abbbbbbb`bbbabaaaabbaaaaaaaaaabaa`_¥aaaa
@HWI-EAS443:3:69:695:618#0/1
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+HWI-EAS443:3:69:695:618#0/1
__PZVS_S__aY`aKYbZ_^Q^TaYQTT¥VY¥aRJaaTaa
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+HWI-EAS443:3:69:743:586#0/1
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+HWI-EAS443:3:69:768:1844#0/1
aaXZ¥aaa`_aZ`V`Qa¥[^`^¥^^aa```_a`X¥aS_`a
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+HWI-EAS443:3:69:787:450#0/1
`V[X¥`aa```_W]^[[`VXYJW_aa¥_aT¥_[_`a_YX^
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+HWI-EAS443:3:69:924:976#0/1
aabbabbbbaaaaaaa```aaa`aaa`a```_`^`a_`_^
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aa`aaaaab`_aba_a`_]aXa_a_aaaa`aa_`]^^_ZY
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+HWI-EAS443:3:6:1009:627#0/1
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CGAACGGGGTGAATCAATAATTGTAGAATCTGGTGACCCG
+HWI-EAS443:3:6:1010:363#0/1
R^S`b_bbaUaabb_aW_b__¥b_`¥aabbVabUbbaV_b

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+HWI-EAS443:3:6:1016:653#0/1
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@HWI-EAS443:3:6:1025:375#0/1
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+HWI-EAS443:3:6:1025:375#0/1
abU^Xb_`aaaa`a`b¥[ZT[]_____¥`VYX¥_¥Y_¥Q_
@HWI-EAS443:3:6:1067:1067#0/1
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+HWI-EAS443:3:6:1067:1067#0/1
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+HWI-EAS443:3:6:1131:1164#0/1
X_ba_MYW`ab]¥`_TYLWXBBBBBBBBBBBBBBBBBBB
@HWI-EAS443:3:6:1213:1534#0/1
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+HWI-EAS443:3:6:1213:1534#0/1
abb^a`^b_X__ZZ^_U^Q`aU[]]R[``^^_____¥]UV¥
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+HWI-EAS443:3:6:1263:1319#0/1
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@HWI-EAS443:3:6:1309:998#0/1
CGTCTCCACAACCTGAGGGTTTTTCGGCTGAATCGAGAAA
+HWI-EAS443:3:6:1309:998#0/1
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CACTTTCCCAATAGAGCCTTCCTCCACTCCCCTGGGTGAC
+HWI-EAS443:3:6:1390:696#0/1
^aa`^^`_a````ab`^`¥Y`Z]]]a^aU]^baa[b[]
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+HWI-EAS443:3:6:1403:1042#0/1
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+HWI-EAS443:3:6:1413:1132#0/1
a¥_a]^¥_] [W¥PXW^]ZN`a_]OX^R_a^¥[X]aXXYSB
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+HWI-EAS443:3:6:1464:658#0/1
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a¥_babba_b`b`aabTbabaa¥abbaaa^Ua`b^_Ya_a
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+HWI-EAS443:3:6:1501:1737#0/1
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+HWI-EAS443:3:6:1564:1657#0/1
aab`baab`abba¥a_aa_`ab[^JZb]^a¥aa]_aV^]
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+HWI-EAS443:3:6:156:403#0/1
aa`ab^a` ``_` ``b^ab`aabW]aYa^aYa`aa^_Wa^`^
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+HWI-EAS443:3:6:1579:1864#0/1
aaaa_`b`_aa]ababa``aaa0¥_`^a` ``^a^a`a¥¥^`
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@HWI-EAS443:3:6:163:1127#0/1
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+HWI-EAS443:3:6:163:1127#0/1
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+HWI-EAS443:3:6:166:2007#0/1
ab]bbbbbaaaaababXaaaa_U]aa^aa`Wa[Y`¥`aaa^
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+HWI-EAS443:3:6:1695:1159#0/1
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@HWI-EAS443:3:6:1703:1239#0/1
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+HWI-EAS443:3:6:1703:1239#0/1
J¥_ab¥bbbU^XPY[TU`a`[a^aa` `a` ``X[[R^`a_]
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+HWI-EAS443:3:6:1708:87#0/1
U^bbb_] [[U] `ba¥U[Wab_b`bbK`ZPDT^[W_BBBB
@HWI-EAS443:3:6:1725:821#0/1
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+HWI-EAS443:3:6:1725:821#0/1
]a[`_W_aa`¥[`¥Wa` `ZN[Z__T]WVDJYIH`S_ZU]
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+HWI-EAS443:3:6:219:624#0/1
S_X[aXa]`ZZR^¥^IYa__¥^Y]YVJ]Q_Y[]aZWa[NB
@HWI-EAS443:3:6:24:966#0/1
TGCTTCAATAGTGCATTCGGGTCACCAGATTCTACAATTA
+HWI-EAS443:3:6:24:966#0/1
`b`baabaa]b[aabb^^bab^abaa_aa_a_` `` `aa`

@HWI-EAS443:3:6:25:835#0/1
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+HWI-EAS443:3:6:25:835#0/1
^__^^]_aa`_____^ZY¥`]`]¥_]W¥Z]X_¥YYBBBB
@HWI-EAS443:3:6:291:261#0/1
ATAAGACAAGAAATGGCCAGTAGGAGTCTATGGGATTCCT
+HWI-EAS443:3:6:291:261#0/1
aaaaa^¥aaa`_¥`aa_T]]L[Y`^a]_`_U____^^^VW]
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+HWI-EAS443:3:6:325:277#0/1
abaab`_bYbbbaaaabRaaa_a_^`aaa^`a]a__``__
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+HWI-EAS443:3:6:392:1148#0/1
¥bb_babbbba_bbbbabbabb`aabaaaa`a_a_`a
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+HWI-EAS443:3:6:566:1879#0/1
^YSX_]baZ¥^bZV^aPVaPbaTbbba[``N^^][¥¥bBB
@HWI-EAS443:3:6:58:1044#0/1
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+HWI-EAS443:3:6:58:1044#0/1
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+HWI-EAS443:3:6:666:1683#0/1
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@HWI-EAS443:3:6:692:1362#0/1
AGAATGTCTTCATGCATTTGATTGCATCATATAGTGGTAT
+HWI-EAS443:3:6:692:1362#0/1
abaa`a_aaaaa[__ba```_¥aa`^a`````a_W_]Z^_
@HWI-EAS443:3:6:705:1244#0/1
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+HWI-EAS443:3:6:705:1244#0/1
[HTU¥a_aY`¥]MXU`]S_00^ZUZZX]VE]Q¥`PRW_HB
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^abaaabbbbbbaabbaaaabaaa_a_aba^a_aaaaaa
@HWI-EAS443:3:6:712:114#0/1
GCCAATTGAAGTGGGCACTCGGTGAAAATATGGCACCAGA
+HWI-EAS443:3:6:712:114#0/1
a_^[\^aYX]`_]_[_]_XZP¥`V^OUOWXXZXNLPKUBBB
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+HWI-EAS443:3:6:765:837#0/1
aaWaa`_aaa`__`a¥_a`_`¥_[`__`__^¥`__¥YUa
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GGGTTTTCGGCTGAATCGAGAAAATTGCTTCTCATTGTTC
+HWI-EAS443:3:6:856:324#0/1
abaX`M¥[a_Na`TXLL^V`^]V]]X]]_`^¥]Q][¥a¥VB
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+HWI-EAS443:3:6:857:410#0/1
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+HWI-EAS443:3:6:88:284#0/1
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+HWI-EAS443:3:6:982:1076#0/1
ab_abaaaaaaa`aaa`aa`]a¥]``^`_a]^`UX_
@HWI-EAS443:3:6:98:1283#0/1
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+HWI-EAS443:3:6:98:1283#0/1
aa__baaa[]bXa`b`aa_a_]`aaYS[ZVW`^___B
@HWI-EAS443:3:70:1026:39#0/1
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+HWI-EAS443:3:70:1026:39#0/1
_bb`a_aaa_]`aba`a]aaa_a_aa^_Ua_]_a^`a]__
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+HWI-EAS443:3:70:1106:1759#0/1
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@HWI-EAS443:3:70:1143:729#0/1
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+HWI-EAS443:3:70:1143:729#0/1
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_TQZOX¥bb_UQWU`a]aVQR_W]`][¥UQXVT¥[¥a¥WF
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+HWI-EAS443:3:70:1226:1302#0/1
a`UM^WaS]^VXYU_]a`a`]NTQRQF¥]U[UPUX]XY[[
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GCCTTGCTCAATGCATCCTGTGCAGCCATGGATGACTTTC
+HWI-EAS443:3:70:1226:1876#0/1
a¥`URI¥_¥a`a_aaRQ[[XH_``^_S]_aN^VUQUZQ

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+HWI-EAS443:3:70:1237:522#0/1
a`a`a__[\`aaaa]a_aa`a^^`a`Xa__a^^]]W_Y^]
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+HWI-EAS443:3:70:1252:250#0/1
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@HWI-EAS443:3:70:127:1205#0/1
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+HWI-EAS443:3:70:127:1205#0/1
^a`Z`Z[ab^¥^` `Z^a` `ba`ba^^a_aba`¥_aa^aa
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@HWI-EAS443:3:70:1557:2024#0/1
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+HWI-EAS443:3:70:1557:2024#0/1
`_^ZZ[F[ZW¥¥[^^¥W`^`_`_`¥TUX^]¥ZW`aV_VRZ
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+HWI-EAS443:3:70:1603:843#0/1
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@HWI-EAS443:3:70:1637:1755#0/1
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+HWI-EAS443:3:70:1637:1755#0/1
aa¥` `abaW[aaaaaa`aaa_aaa_a`^`a]^a^_aaV__
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+HWI-EAS443:3:70:1734:1001#0/1
a]]U` `W_a_`_`ZM`ZZ¥aaZa]YUY^[H]UY[Q¥aNVP
@HWI-EAS443:3:70:1789:163#0/1
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+HWI-EAS443:3:70:1789:163#0/1
`a` `bbaab_ab`aaaa^`a` ` `^`a`^a`WW_` ` `¥U¥_
@HWI-EAS443:3:70:265:1317#0/1
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+HWI-EAS443:3:70:265:1317#0/1
aab_aWaaa^baaa_]a`__abYYX[_a_aZQ[`` `X` ``
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+HWI-EAS443:3:70:273:1377#0/1
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@HWI-EAS443:3:70:327:1918#0/1
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+HWI-EAS443:3:70:327:1918#0/1
aab`^]aaa__baa_S¥aaa_a^^U[T^_a_^XZSWS^_Z
@HWI-EAS443:3:70:407:1343#0/1
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+HWI-EAS443:3:70:436:994#0/1
aWXX¥_Y```_QQ^)`a`¥a[_T_W[[¥[WY[[YTNT[SY
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@HWI-EAS443:3:70:548:54#0/1
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_W[YWSX`ZTTYXQ[_YYYV^SSUJUYYYMXURVVNPQMRP
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+HWI-EAS443:3:70:569:1284#0/1
aa_`P`Ua_]`a`_Y)`[Z_]`X^`_a``a`[¥_[^ZZ
@HWI-EAS443:3:70:56:515#0/1
GTCGTCTCAAGAATGGTTCAATTTTGGCGTTCACCTCTT
+HWI-EAS443:3:70:56:515#0/1
`¥`b[aa_a^aa`Z_ba^`[`K[a_aQV¥`¥¥¥DT]Q[^a
@HWI-EAS443:3:70:598:732#0/1
TTTCAAAGAATTCCTTGGTCATGTCTTTCTCTTTGACAGA
+HWI-EAS443:3:70:598:732#0/1
aa^[a`R`_Ya]OY`_aVX_X_aZ___[_^^Z_a_]_^[^
@HWI-EAS443:3:70:603:770#0/1
GGGCACTCGGTGAAAATATGGCACCAGAAAAAGTAGACTT
+HWI-EAS443:3:70:603:770#0/1
Zaaaaa`¥a]a^U[a`[Y_^___`X¥X_`a`]M^¥ZYa`
@HWI-EAS443:3:70:604:1356#0/1
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+HWI-EAS443:3:70:604:1356#0/1
a`aa`abaa^aaaaaaaa`aaaa_a_``Z[aa_`a^`_]
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+HWI-EAS443:3:70:668:1170#0/1
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aba`ababaZ^aaa`aa_a_aaa`Z¥Q`]^`a__`^a____
@HWI-EAS443:3:70:742:33#0/1
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+HWI-EAS443:3:70:742:33#0/1
abaaabb`^abab^abababaaaaaa`a_baa_aabb]aa
@HWI-EAS443:3:70:752:1224#0/1
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+HWI-EAS443:3:70:752:1224#0/1
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+HWI-EAS443:3:70:763:1244#0/1
aba^UW_ZS¥R`b]RSaa`[`a]^_a_]a_^YS[T]ZUP¥
@HWI-EAS443:3:70:787:338#0/1
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+HWI-EAS443:3:70:787:338#0/1
aaaaaaaaaaaaaaaa`aaaaaaaa_a`^_a``]^a]`^Y_
@HWI-EAS443:3:70:811:1285#0/1
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+HWI-EAS443:3:70:811:1285#0/1
VbU^]_Y^][aa`_a]aaaa¥bZSZ_]¥N_``]¥¥`Z`T
@HWI-EAS443:3:70:829:25#0/1
GGGGCATGGAAATGAGGCGCTGCCTTCTTCAGTCTCTTCA
+HWI-EAS443:3:70:829:25#0/1
^a^a^a`bbZ]Z]XVUV_`_`baa`[[```Z`RV_¥[Y]W
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+HWI-EAS443:3:70:857:1234#0/1
]abb`R^aabb`_`b^babbbbbbbMab_H_`V^S`R]a
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+HWI-EAS443:3:70:888:220#0/1
a_bYa^aaabaaa```aaaaX`^^_aa`a^`a_][^a^a
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+HWI-EAS443:3:70:926:106#0/1
aaa`W`__```]`¥F0aY_aV___^`_`YN___¥__Y¥WYV
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+HWI-EAS443:3:70:93:2042#0/1
Z__^H^aab]`ba]_VS_aa¥RWaa`aZ`^_a¥`[^Y^LQ
@HWI-EAS443:3:70:98:1040#0/1
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+HWI-EAS443:3:70:98:1040#0/1
aa^a^aaaa_baaa`¥a_a_aa_a`aa]`_]`^a_`^`[_`__^
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+HWI-EAS443:3:71:1021:308#0/1
_`]]___X]b`_a^b¥ab`^a¥PQ[[S]aaY_]UW^XF
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+HWI-EAS443:3:71:1070:380#0/1
abaaaa`aaaba`aaaa_`abaaabaaa_aaaa``¥N_]`
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TCCTCCTCATGCTTGCATATGTTCAATCGGGGCAACATC
+HWI-EAS443:3:71:1104:358#0/1
``aaaaVY^[OZ^YbbbaWK^^P_Xa`Y[WXH`_`_aY^ZP
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+HWI-EAS443:3:71:114:1928#0/1
¥`¥R_T¥XYTDW]QZU]YR¥`P_XYUJ[OGXVWTVTV_Za
@HWI-EAS443:3:71:1153:1559#0/1
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+HWI-EAS443:3:71:1153:1559#0/1
aaaaaa`¥`[ZX_a`a^YY[SY[_^`__YRZ`__a__UOU
@HWI-EAS443:3:71:1162:1577#0/1
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+HWI-EAS443:3:71:1162:1577#0/1
``ZY^aaba¥S¥__[_a`b`Y_]`a^a^`a_`^`_`_]W
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+HWI-EAS443:3:71:117:861#0/1
__ZZ]M^Z]]`aW^aa^aZ_a_]a_aaWZU^QX^^^`^OSV
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+HWI-EAS443:3:71:1205:1373#0/1
aba`_X`_OS[Oaaaaa]Z[_a]__aY`_a_[^^_]____^
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+HWI-EAS443:3:71:1246:1314#0/1
W¥^]aaaa¥][`_aaaaYaa`_a_a`_`W`aa[[_UQW
@HWI-EAS443:3:71:1247:1281#0/1
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+HWI-EAS443:3:71:1247:1281#0/1
`bababbabba`aa`aaaa_aa`_a^aa__aa]_aa_aX
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+HWI-EAS443:3:71:1247:1790#0/1
Zabab`bb_``abbab`X`bbbabbbabbb_bbbabbaaa
@HWI-EAS443:3:71:1266:333#0/1
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+HWI-EAS443:3:71:1266:333#0/1
aabb[Q`]a`a^DQ_`¥aU__`¥`_X]E]Vaa_a^SPIV
@HWI-EAS443:3:71:1275:633#0/1
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+HWI-EAS443:3:71:1275:633#0/1
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+HWI-EAS443:3:71:1306:276#0/1
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@HWI-EAS443:3:71:1307:190#0/1
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+HWI-EAS443:3:71:1307:190#0/1
``ba_aaa`aa]aTa`ab^aaaaYaabaa`Z^`a`_a^^^
@HWI-EAS443:3:71:1310:253#0/1
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+HWI-EAS443:3:71:1310:253#0/1
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@HWI-EAS443:3:71:1353:1994#0/1
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+HWI-EAS443:3:71:1353:1994#0/1
]FUX^TQ`T`RS^[^aa`]a^Pa`]^TU]]YZ]RG^G]N
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+HWI-EAS443:3:71:1375:610#0/1
aba_Z``LYa``[a`a_a^a`aa^`a``_``___^`_[Y
@HWI-EAS443:3:71:1376:840#0/1
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+HWI-EAS443:3:71:1376:840#0/1
ababab`abbbabaabaab_a`bbabaaaaaaaa_aaa
@HWI-EAS443:3:71:146:1828#0/1
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+HWI-EAS443:3:71:146:1828#0/1
U^V[]_XP_Yb]^X_[`_bb]``bbb¥X_b```¥`abaW]
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+HWI-EAS443:3:71:14:783#0/1
a`aaaZQ^]_b^`[Y`a_X`_aa^`^`^T[^a__`YSSN
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+HWI-EAS443:3:71:1513:1369#0/1
aaa_ababa^`ZV`a`aaX[___^_Y_YV__¥_¥Y_¥¥GZZ
@HWI-EAS443:3:71:153:1672#0/1
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+HWI-EAS443:3:71:153:1672#0/1
aaaaaba¥[L[_Wq]aa_``¥N¥^X^Na^¥^¥NUR[TW^[
@HWI-EAS443:3:71:1560:1721#0/1
GGCCAATCGGAGAGTCACCCAGGGGAGTGGAGGAAGGCTC
+HWI-EAS443:3:71:1560:1721#0/1
aaSSa```X`_OR]Ya]]VGP]Y]^XaUZRGUU^SW]SBB
@HWI-EAS443:3:71:1584:1628#0/1
GGTGAACCTTTGTAAGTATGGAGTTCTCACTCACTGACCCG
+HWI-EAS443:3:71:1584:1628#0/1
]YU_¥S_a^^`R`^R```[aa_a`a`¥aaaaa^aa_Ya
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+HWI-EAS443:3:71:1618:1489#0/1
URba`^b]Q^ZIb` `baaUJR`a` `YIN_JDPbaHG]Gwa
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+HWI-EAS443:3:71:162:1486#0/1
_a^` `]¥aa`Z` `aaaa__aa¥^_` [VWa^]V`]_V[^__
@HWI-EAS443:3:71:1666:68#0/1
GCTCATCACTGTCATACTGTTTAAGGTCTCCAACATCTTT
+HWI-EAS443:3:71:1666:68#0/1
abb^VR]a_X]TV_a_[^` `a[_]` aR^`]X]_SX_N]^S
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+HWI-EAS443:3:71:1691:951#0/1
_`ab^b` `Zaaaa`aaaa`_aa`^U^_aa`^^aaZ[a_[_
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+HWI-EAS443:3:71:1714:1886#0/1
aPZ`Y`^MTYWYWQ____][N[V`^^[U_Z^YOP¥^`]UUX
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+HWI-EAS443:3:71:1757:978#0/1
aab¥^` `T_aa`aa____` `]^`¥[Q[[]_W]_a_UZPT]Z
@HWI-EAS443:3:71:197:376#0/1
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+HWI-EAS443:3:71:197:376#0/1
ab`ab^S_aa`X`aa]a¥Z¥0^_` [`[^_¥`XV^aZ^__
@HWI-EAS443:3:71:206:288#0/1
GGGTTTTCGGCTGAATCGAGAAAATTGCTTCTCATTGTTC
+HWI-EAS443:3:71:206:288#0/1
aaaX_aaaa^aa]^a` `]^` `__^^_]]]]^]Y^]
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GACGAAAGGAATCCCATAGACTCCTACTGGCCATTTCTTG
+HWI-EAS443:3:71:251:996#0/1
aabbbb_`abbabba]^`^abaaaaaa¥H¥aZV^`]`]Y
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CGATTGGCCATGTTTCCGATTTGTTTTCAAAGAATTCCTT
+HWI-EAS443:3:71:290:982#0/1
ab¥bbbbba_aaSabab_]Zbb¥aabb`^ba¥`a_a]T`a
@HWI-EAS443:3:71:297:173#0/1
AAAGGAATCCCATAGACTCCTACTGGCCATTTCTTGCTT
+HWI-EAS443:3:71:297:173#0/1
a^Z`baa` `aaaa`aba__`_X` ^[[[_[PY¥UZ¥XTQT^
@HWI-EAS443:3:71:326:1806#0/1
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+HWI-EAS443:3:71:326:1806#0/1
Z_bba__`a¥[[WY_aa]`Q_XZxa_]`_^a` `YX`a`^a
@HWI-EAS443:3:71:340:269#0/1
GGGGTTTTCGGCTGAATCGAGAAAATTGCTTCTCATTGTT
+HWI-EAS443:3:71:340:269#0/1
aba¥T]ab_aa`b_`][ab`aZZ^`a^Z^__`aaaa`^¥_

@HWI-EAS443:3:71:362:1684#0/1
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+HWI-EAS443:3:71:362:1684#0/1
`bbbbaabbaabba`_a`baaaabaa^aa___aa___]`_
@HWI-EAS443:3:71:390:292#0/1
GATTTGTTTTCAAAGAATTCCTTGGTCATGTCTTTCTCTT
+HWI-EAS443:3:71:390:292#0/1
a_aaaa`aaaa_aa`[]`__a```Za`a^___]___^`_
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TGTAGCTCTGCTAGCACCTGCTTCCAAGCCATGAGGTAAT
+HWI-EAS443:3:71:427:648#0/1
abT`¥`aa`W¥GS__`b_TZYZZa_R¥^`S[¥ZU[[00U`
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+HWI-EAS443:3:71:433:1608#0/1
aVvVaa`WZaSS[¥T^_a___``_WZa^`_`^_VVWX^[_
@HWI-EAS443:3:71:440:1381#0/1
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+HWI-EAS443:3:71:440:1381#0/1
aaaa`_`baa`Y^`aaa___`^^^_^____^_Z^_`^`^_
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+HWI-EAS443:3:71:488:1093#0/1
a¥YZba^¥Ya`aa`_aa_^`_]a]N^_N_aa]V`W_`_ZS
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GAGAAAGGCATAAATCCCAATTACCTCATGGCTTGGAAAGC
+HWI-EAS443:3:71:512:911#0/1
ab`^`]^abbbba]aa`aaba`baa¥aa`a_aa`T¥X[S_
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+HWI-EAS443:3:71:52:1093#0/1
aba`¥a^abaa`aaaaaaaa_a`_`_]`___X_aa`Ua`_
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+HWI-EAS443:3:71:531:1258#0/1
Zbb^^^][NQXZ`aaaRY^aX¥aa¥aa^Va`_]`a^U_
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+HWI-EAS443:3:71:566:1180#0/1
`ZZTZ^L^^`[`aaaa^T`a```]```aab]R_`^¥`¥[Y
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`baa`bbaaabbaab^T]ba````aaabaaba_aX^ba^a
@HWI-EAS443:3:71:585:682#0/1
GGTGAACCTTTGTAAGTATGGAGTTCTCACTCACTGACCCG
+HWI-EAS443:3:71:585:682#0/1
`bU]X[¥`_U_Z_S[ab[[_P¥T¥aS`^`aab`X¥[¥¥a[
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@HWI-EAS443:3:72:1048:481#0/1
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+HWI-EAS443:3:72:1048:481#0/1
a`[T]`_P]¥_ZV¥`X^¥_YU_dW_Q¥aNT_]VJ¥Ra_¥_
@HWI-EAS443:3:72:1067:687#0/1
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+HWI-EAS443:3:72:1067:687#0/1
a`baa_aaaba`aab[`a_``_a```a`_a_aa`a`¥a`a`
@HWI-EAS443:3:72:1111:1156#0/1
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+HWI-EAS443:3:72:1111:1156#0/1
a_ababbbbaaaaaabaa`aaaa``aaZaaaa]a_`[]^
@HWI-EAS443:3:72:1118:1178#0/1
TCAAAGTCTACTTTTTCTGGTGCCATATTTTCACCGAGTG
+HWI-EAS443:3:72:1118:1178#0/1
abab]__a`b`aaaaaaaa`aaaa`aaaa`a_aa`__a`
@HWI-EAS443:3:72:1133:1052#0/1
GCGCATAGTTCCTGTAATCTCAAATTTTTCTTCAATTGTC
+HWI-EAS443:3:72:1133:1052#0/1
abaaba`¥[aaaa`X]ab_a`_^Waabaaaa^`aaaa__
@HWI-EAS443:3:72:1152:1602#0/1
ACTGTTTAAGGTCTCCAACATCTTTCAGTCATCAAAGTC
+HWI-EAS443:3:72:1152:1602#0/1
aaa__a`aaa_Ya``_aa]a_^`^__a_]_a_^`^`_X_
@HWI-EAS443:3:72:1171:1230#0/1
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+HWI-EAS443:3:72:1171:1230#0/1
a_b^ababbbbaaaa`abbaa_aaa``a`aa^N[Y^^PZZ
@HWI-EAS443:3:72:1240:1251#0/1
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+HWI-EAS443:3:72:1240:1251#0/1
aaa`_[]`__Wa_a]a`_aX`_____`_¥^_]_¥TWZ_]`^
@HWI-EAS443:3:72:1249:259#0/1
GAGAAAGGCATAAATCCCAATTACCTCATGGCTTGGGAAGC
+HWI-EAS443:3:72:1249:259#0/1
a[baaaa__aa`_aaQ_^`^aa`^`_`_]`^`^`^ZVU]ZM
@HWI-EAS443:3:72:1259:1025#0/1
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+HWI-EAS443:3:72:1259:1025#0/1
`a`bbX`_PV``bYSSa^U]WDMYa__`[I_aZ¥_M^^Y]
@HWI-EAS443:3:72:1302:467#0/1
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+HWI-EAS443:3:72:1302:467#0/1
`aYaa¥]H[bWW__XZ]aba`Z__aaaa^G^[Zaa[``^`
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CTGATTCAAGCTGGATAGAACTTGATGAAATAGGAGAAGA
+HWI-EAS443:3:72:1422:1245#0/1
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@HWI-EAS443:3:72:1450:334#0/1
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+HWI-EAS443:3:72:1450:334#0/1
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@HWI-EAS443:3:72:1524:781#0/1
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+HWI-EAS443:3:72:1524:781#0/1
aa¥aZ¥_QX`]]aY¥]Q`¥_TNUSa[`]S]WVRK¥RPY
@HWI-EAS443:3:72:1568:1291#0/1
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+HWI-EAS443:3:72:1568:1291#0/1
a__a`aa`a`aX`a`aa`_`_^`_]`[_a`Y`^`^`]^__
@HWI-EAS443:3:72:1585:69#0/1
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+HWI-EAS443:3:72:1585:69#0/1
aaa`_Ya`_X`_]`^_]aa]Y[N¥`P^KTQS`aNT^WW__R
@HWI-EAS443:3:72:1589:250#0/1
GGCCGAGTCTTCTGTCAAAGAGAAAGACATGACCAAGGAA
+HWI-EAS443:3:72:1589:250#0/1
abSYY[YTNaUFS`^Y[_[aXZU]`[_[_Y_¥UVV^WS]WU
@HWI-EAS443:3:72:160:840#0/1
CACTTGGCCTATCGCAGTCCTCAAGAGCATGTCTCCTATT
+HWI-EAS443:3:72:160:840#0/1
a`ZPGZX[Z]`V]^XY_U][Z]]`a`_Wa^]¥X[^TX[
@HWI-EAS443:3:72:161:66#0/1
TTGCGATATGTTCAATCGGGGCAACATCTTCTCCTATTTC
+HWI-EAS443:3:72:161:66#0/1
¥aaabaaabb_Yaaa_aa__a]a`^^a0a_¥a_]`^a[`]
@HWI-EAS443:3:72:163:577#0/1
GTTTCCGATTTGTTTTCAAAGAATTCCTTGGTCATGTCTT
+HWI-EAS443:3:72:163:577#0/1
a`aaaa[`a`_`a__a_a_]X^a__`__^]`^`^`_]`^`
@HWI-EAS443:3:72:1678:1801#0/1
CATTCTTTGGCTGGAAAGAGCCTAACATAGTCAAACCACA
+HWI-EAS443:3:72:1678:1801#0/1
ababbbbbb`bab`__bbbbX[aaabbaa`^Y_bbbaa_a
@HWI-EAS443:3:72:1722:194#0/1
GGGGGCTATATGAAGCAATCGAGGAGTGCCTGATTAATGA
+HWI-EAS443:3:72:1722:194#0/1
]bab]`bbb_bb`^`abba]b]a`Ra^aX`aa`__`a_aa
@HWI-EAS443:3:72:1730:834#0/1
CGATTGCCATGTTTCCGATTTGTTTTCAAAGAATTCCTT
+HWI-EAS443:3:72:1730:834#0/1
ababba`^`a`ZUbb_b__`aab`bbb`ab^^^`aba_aa
@HWI-EAS443:3:72:174:270#0/1
CAAAGAGAACCGGTTTCATTGAAATTGGAGTAACACGGAGG
+HWI-EAS443:3:72:174:270#0/1
a]^`^`[_]a`aa]^Z[```[___Z]Z^_W___^]]^Z_]

@HWI-EAS443:3:72:1773:1501#0/1
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+HWI-EAS443:3:72:1773:1501#0/1
a___babbaaa^_aaaa`[a`aa^a_`__aa_`a__`]a
@HWI-EAS443:3:72:1780:1375#0/1
ACCGAACTTCTCCAGCCTTGAAAACCTTTAGAGCCTATGTA
+HWI-EAS443:3:72:1780:1375#0/1
aaaaaaaaaaaaa_a`aa`a`^^`_a_`a`a__a_a`V]
@HWI-EAS443:3:72:205:1801#0/1
TCTCATTTGAGAAATGATACTGATGTGGTGAACCTTTGTAA
+HWI-EAS443:3:72:205:1801#0/1
ababb`baaaab`aaababbaaa`a¥_____aa`a_a_^aY
@HWI-EAS443:3:72:216:1962#0/1
CACTTTCCCAATAGAGCCTTCCCTCCACTCCCCTGGGTGAC
+HWI-EAS443:3:72:216:1962#0/1
abaa`[baaba^aVaWaa]`a`^`a`¥]`^]S¥UWW^¥W
@HWI-EAS443:3:72:234:1059#0/1
GCCCTGCTCTTTCGTCAGGGTGTAGTCCGCTTTGGTGG
+HWI-EAS443:3:72:234:1059#0/1
abbbaaaabababaa¥`]aaaSa^^`^aaaa_a_a]W`^
@HWI-EAS443:3:72:237:1135#0/1
GAATTCATAAGGCATGTGAATTGACTGATTCAAGCTGGA
+HWI-EAS443:3:72:237:1135#0/1
^a`aa_HY^aa^R^XaaTa_aa_aa_a``_¥¥]Y^Z[___^
@HWI-EAS443:3:72:266:616#0/1
ATTGAATTCATTTGGACCCAGCTTGCTAGAGATCTGGGC
+HWI-EAS443:3:72:266:616#0/1
abbaaabaaabaaaa_aa`a`^^`_a`_`Y_`_^_^^]V_
@HWI-EAS443:3:72:338:1118#0/1
ACTCCCTTCAATTATGTATTGAGCCTGCAGTGGGACA
+HWI-EAS443:3:72:338:1118#0/1
abR`aa`_`a¥a`a`V^]W^^¥^`_]a`^WZW¥W^]Y]]_
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+HWI-EAS443:3:72:364:289#0/1
ababbaaa`bX^aaaGb]U[aaaa__aa_b`a`Z__a_V
@HWI-EAS443:3:72:37:89#0/1
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+HWI-EAS443:3:72:37:89#0/1
^¥bbYIZ¥YFORVYV^W_aa[^YZYaXaa`aY[¥JOTSFR
@HWI-EAS443:3:72:389:1090#0/1
GGGGGCTATATGAAGCAATCGAGGAGTGCCTGATTAATGA
+HWI-EAS443:3:72:389:1090#0/1
aaababbabab_a]`bbba`^^`a_aa_aaaaaaaaaaa_aaa
@HWI-EAS443:3:72:390:1810#0/1
ATGAAATGGAAATCCGAATACATGAAACAAACTTCCAAAT
+HWI-EAS443:3:72:390:1810#0/1
a`a`[]`^]_aa^_a]`^a]]^_a_a__]_`[^U]^
@HWI-EAS443:3:72:452:197#0/1
CATGAAATGAGGCGCTGCCTTCTTCAGTCTCTTCAGCAG

+HWI-EAS443:3:72:452:197#0/1
a]a]aX_aaaa[Z^aaaaVXUa`_`^_¥Q_____YRRL_¥¥
@HWI-EAS443:3:72:472:387#0/1
GGGGCATGGAAATGAGGCGCTGCCTTCTTCAGTCTCTTCA
+HWI-EAS443:3:72:472:387#0/1
aaa`aba`_aaa`__a_`a¥`_`_aa_`_^[a__^V^
@HWI-EAS443:3:72:485:189#0/1
GGCATGGAAATGAGGCGCTGCCTTCTTCAGTCTCTTCAGC
+HWI-EAS443:3:72:485:189#0/1
aaaa`bba`¥^a^`a`[]Z`__Y_T_aZU]W[UY[[TR[¥
@HWI-EAS443:3:72:494:1351#0/1
GGCTCCAGTCTCGGTCAGTGAGTGAGAACTCCATACTTA
+HWI-EAS443:3:72:494:1351#0/1
`ab`b_Waabaa]_a_`WWX_a_T[`^`aaaaaaaa`aaa
@HWI-EAS443:3:72:538:237#0/1
GGGGGCTATATGAAGCAATCGAGGAGTGCCTGATTAATGA
+HWI-EAS443:3:72:538:237#0/1
a_Ra]^a_]abaaaaaaaa_a[] [X`¥^^^_a]¥^`^ZV¥
@HWI-EAS443:3:72:562:593#0/1
TCACTTCTTTTGACATTTGGGAAAGCTTGCCCTCAATGCA
+HWI-EAS443:3:72:562:593#0/1
]bbba`_`_]_Y``aab`aa]baabaaa_aaa`a¥aa```a
@HWI-EAS443:3:72:571:311#0/1
CAGCTTGCTAGAGATCTGGGCTCTGGCTCATCACTGTCAT
+HWI-EAS443:3:72:571:311#0/1
abaXWROX_Ta_SXHPQQZNP]WS[`^[X_SRX[ZYPV[V
@HWI-EAS443:3:72:571:326#0/1
GACCCGAGTCACGAGGGGAGGGAATACCACTATATGATG
+HWI-EAS443:3:72:571:326#0/1
`bbbabababbababab``abba_aabaababbabaaaaa
@HWI-EAS443:3:72:581:567#0/1
CCTCCTCATGCTTGCATATGTTCAATCGGGCAACATCT
+HWI-EAS443:3:72:581:567#0/1
`a^R_`a`^`a^aaW^`aa`^aaXaaaa]X`_`_]a^Z]]
@HWI-EAS443:3:72:609:1985#0/1
GTGAACCTTTGTAAGTATGGAGTTCTCACTCACTGACCCGA
+HWI-EAS443:3:72:609:1985#0/1
^`]bU`ba^`X`ba[¥a`X¥aV_a`abaaaa`U`__aa^
@HWI-EAS443:3:72:644:592#0/1
TATAGCCCCCAAGATCGAAGTTCCAGTTCCAGTTGT
+HWI-EAS443:3:72:644:592#0/1
ababaaaaaaaaa]`_``aa_`_Q_Z^[^_W^[^¥`_W^S[
@HWI-EAS443:3:72:674:942#0/1
GGTGAACCTTTGTAAGTATGGAGTTCTCACTCACTGACCCG
+HWI-EAS443:3:72:674:942#0/1
a`a`Ybabbbb_bba_baa`aaaabaabaaaaaaaa`aaa
@HWI-EAS443:3:72:676:330#0/1
GGCACTCCTCGATTGCTTCATATAGCCCCCAAGATCGAA
+HWI-EAS443:3:72:676:330#0/1
]^Z`Ka`^[XZMXa]QT`PYWZbR¥`aaaaaPZMPWXYP

@HWI-EAS443:3:73:951:17#0/1
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+HWI-EAS443:3:73:951:17#0/1
ababaa``_aaaa__````aa`aaZ`V[^PV[]NTQTQTO
@HWI-EAS443:3:73:973:684#0/1
AGCAGGTGCTAGCAGAGCTACAGGACATTGAAAATGAAGA
+HWI-EAS443:3:73:973:684#0/1
ZZXX`ZHV`ab¥__¥¥¥a`YT¥b]a`]^`a]]`aa]Y]ZZ
@HWI-EAS443:3:73:977:1104#0/1
GACATTCTTTGGCTGGAAAGAGCCTAACATAGTCAAACCA
+HWI-EAS443:3:73:977:1104#0/1
PUUMY`¥abaa``bbaa]PXZ`_a¥__]aa]T^aaab]]a
@HWI-EAS443:3:73:98:1124#0/1
CCCCGATTGAACATATCGCAAGCATGAGGAGGAACTATTT
+HWI-EAS443:3:73:98:1124#0/1
abbb]M¥IOU`WZZS_]R]RYS^U]]R]_`WWW[WNPXTL
@HWI-EAS443:3:73:994:227#0/1
AGTGGGCACTCGGTGAAAATATGGCACCAAGAAAAGTAGA
+HWI-EAS443:3:73:994:227#0/1
aaabaaaa]a_aa]a`aaaa_aaa]_R^_`^_`__W_YY
@HWI-EAS443:3:74:1023:700#0/1
GAAGATCCCAAGGACAAAGAACATGAAGAGAACAAGCCAA
+HWI-EAS443:3:74:1023:700#0/1
aaaaaab`a_`aaa_`aa^Y`^abaZ`a`aa__a^a]¥`^
@HWI-EAS443:3:74:106:1674#0/1
CCCCGTTCGTCGATGAAATGGAAATCCGAATACATGAAAC
+HWI-EAS443:3:74:106:1674#0/1
a_a`]P[a`Sa[[WZaZ]^T[`XY]`¥V^]Z`^¥T]^__]
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ACCCCGTTTCGTCGATGAAATGGAAATCCGAATACATGAAA
+HWI-EAS443:3:74:1117:175#0/1
a]aa_a`aaaV`a`_aa`__a_]_`YJ[a_^__^^]_^
@HWI-EAS443:3:74:1203:1299#0/1
GGGGTTTTCGGCTGAATCGAGAAAATTGCTTCTCATTGTT
+HWI-EAS443:3:74:1203:1299#0/1
abbbT[`a_Zaaaba_aabaa`X`a_a`_`[`Y`a^`¥`U_
@HWI-EAS443:3:74:1206:1030#0/1
ATTCGATTTCCATTTTCATCGACGAACGGGGTGAATCAAT
+HWI-EAS443:3:74:1206:1030#0/1
_bb`b`bbbaabaaaaabaab^aaaaaba]aa_a]__`
@HWI-EAS443:3:74:1215:1265#0/1
GAAATGGCCAGTAGGAGTCTATGGGATTCCTTTCGTCAGT
+HWI-EAS443:3:74:1215:1265#0/1
aa¥a```a`a^RT]XS`VL¥__`_¥S^_P[^`__¥PUZZW
@HWI-EAS443:3:74:1281:1405#0/1
AGCAGGTGCTAGCAGAGCTACAGGACATTGAAAATGAAGA
+HWI-EAS443:3:74:1281:1405#0/1
abbaY^F[]^Y_``aaaab`aaYTW`^a^``[a_a__^`
@HWI-EAS443:3:74:1316:1665#0/1
CATGTTTCCGATTTGTTTTCAAAGAATTCCTTGGTCATGT

+HWI-EAS443:3:74:1316:1665#0/1
N`^a`abbabbbaabbbbbbbaa`bba`a_aabbb_¥aabb
@HWI-EAS443:3:74:1388:400#0/1
GGGGGGCTATATGAAGCAATCGAGGAGTGCCTGATTAATG
+HWI-EAS443:3:74:1388:400#0/1
a_]T¥SXTaa__a]YNR]_^Z^^_[WUNZ_¥U`T[VVVQW
@HWI-EAS443:3:74:145:1829#0/1
CAAGGACAAAGAACATGAAGAGAACAAGCCAATTGAAGTG
+HWI-EAS443:3:74:145:1829#0/1
Z^_a``bbb`bbbbbbZ_b^Zbbb_bbbb_aababaWa
@HWI-EAS443:3:74:1535:1790#0/1
TGTGGTTGACTATGTTAGGCTCTTCCAGCCAAAGAATG
+HWI-EAS443:3:74:1535:1790#0/1
aa]a¥`a¥UY]`aa_¥TzZa¥XZaa¥¥WYPO`a]]W_¥X
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AACTTTGTAAGTATGGAGTTCTCACTCACTGACCCGAGAC
+HWI-EAS443:3:74:161:696#0/1
WS_``_`U¥_]T`¥X¥¥]WT]Ybaa``Za]RT^`[`Y`¥V
@HWI-EAS443:3:74:1627:1401#0/1
CAGCTTGCTAGAGATCTGGGCTCTGGCTCATCACTGTCAT
+HWI-EAS443:3:74:1627:1401#0/1
a__`aabbb]babbaabb¥¥Za^a``Q^a_[¥_a_aa_aaa
@HWI-EAS443:3:74:1680:1915#0/1
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+HWI-EAS443:3:74:1680:1915#0/1
¥`]¥ba`bbbaaa`_¥abaaabaa`aa`aaa_aa`¥XUZY
@HWI-EAS443:3:74:1756:1310#0/1
CATAAATCCCAATTACCTCATGGCTTGAAGCAGGTGCTA
+HWI-EAS443:3:74:1756:1310#0/1
abbbbabbabbbbbbabbbbbba`aaaT[¥ba¥`^`Y¥¥[^
@HWI-EAS443:3:74:1770:711#0/1
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+HWI-EAS443:3:74:1770:711#0/1
ab¥¥bbaaba`bbb`aa`baa`Iabbb^a¥bbaaa```ba
@HWI-EAS443:3:74:198:164#0/1
AGTCAATTCACATGCCTTATTGAATTCATTTTGGACCCAG
+HWI-EAS443:3:74:198:164#0/1
aaa_H]bZ`bbZbb`aaZXaa_YWa[_aa__a_Z`^[ZZ
@HWI-EAS443:3:74:259:1920#0/1
CAGCAAACCTTGTAGTTTCGATTTTCGGATCTTCCCATA
+HWI-EAS443:3:74:259:1920#0/1
aaUaa¥U]_a_____T[^^aXU]]^^_POGUVV[VSZ[[Y[
@HWI-EAS443:3:74:268:692#0/1
GGGCAACATCTTCTCCTATTTTCATCAAGTTCTATCCAGCT
+HWI-EAS443:3:74:268:692#0/1
_bbb`bbababbbbbb`baabbaba]b`aa`]aaaaaaa
@HWI-EAS443:3:74:276:614#0/1
GAGAAAGGCATAAATCCCAATTACCTCATGGCTTGAAGC
+HWI-EAS443:3:74:276:614#0/1
aaa`aaa`aaaa__```_aa`aa____^`__`_]H]U^TW

@HWI-EAS443:3:74:276:775#0/1
ACTCGGTGAAAATATGGCACCAGAAAAAGTAGACTTTGAT
+HWI-EAS443:3:74:276:775#0/1
Z¥Z`bTY^TabXMYW[a]a^V^`¥]R[Y^^[[^][^Z
@HWI-EAS443:3:74:359:996#0/1
GAGAAAGGCATAAATCCCAATTACCTCATGGCTTGGAAAGC
+HWI-EAS443:3:74:359:996#0/1
aa`aba_a`babaa`a_]aaa``_]_aaa¥¥a]_WMU__R
@HWI-EAS443:3:74:385:394#0/1
AATAATTGTAGAATCTGGTGACCCGAATGCACTATTGAAG
+HWI-EAS443:3:74:385:394#0/1
aabb`bbaabbbbaabba^baa`aaaaaaaa`baaa`a_a
@HWI-EAS443:3:74:397:1724#0/1
CAGCTTGCTAGAGATCTGGGCTCTGGCTCATCACTGTCAT
+HWI-EAS443:3:74:397:1724#0/1
a`Z_]a_]VZ_] [PW`b¥X^`]b¥¥[]`Y]V_X]
@HWI-EAS443:3:74:449:847#0/1
ATAAGGCATGTGAATTGACTGATTCAAGCTGGATAGAAGT
+HWI-EAS443:3:74:449:847#0/1
a`^`aaa_aa`aaa_aaaaaa__`_a_`a`^^_a^a^`
@HWI-EAS443:3:74:598:1237#0/1
CTCATTTGAGAAATGATACTGATGTGGTGAACTTTGTAAG
+HWI-EAS443:3:74:598:1237#0/1
aa`¥`^b^aa`^`baaabaa`Z`b][FXa```a__^_]a`
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CAAGCCATGAGGTAATTGGGATTTATGCCTTTCTCATGTG
+HWI-EAS443:3:74:599:1207#0/1
`a^a][```__QY[^``__Z__`Ya`_``[^^^```]_
@HWI-EAS443:3:74:610:625#0/1
GAATGGTTCAATTTTGGCGTTCACCTTCTTTTGACATTTGG
+HWI-EAS443:3:74:610:625#0/1
abbaba]bb`bbaa`aZ_Z^G¥UYQ]abaaY[a``¥P[
@HWI-EAS443:3:74:644:128#0/1
TCCTGTAGCTCTGCTAGCACCTGCTTCCAAGCCATGAGGT
+HWI-EAS443:3:74:644:128#0/1
abb`_`aa```_] [[V`a_]__`^__VUUXYPUQQ`X`^R
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+HWI-EAS443:3:74:738:1063#0/1
`abba_Z_`bbbaabbbbb`aaaaa`aa```baa`^]a
@HWI-EAS443:3:74:774:671#0/1
CAAAGAATTCCTTGGTCATGTCTTTCTTTGACAGAAGA
+HWI-EAS443:3:74:774:671#0/1
aa`abbaaababbba_baabaababab`aaaa`aaaaaa
@HWI-EAS443:3:74:790:619#0/1
GGCCAGTAGGAGTCTATGGGATTCCTTTTCGTCAGTCCGAA
+HWI-EAS443:3:74:790:619#0/1
abb`ab`bba]a`ab`bbbb^`_QZaba`b_Xa`a¥X^aa
@HWI-EAS443:3:74:818:462#0/1
CATTCTTTGGCTGGAAAGAGCCTAACATAGTCAAACCACA

+HWI-EAS443:3:74:818:462#0/1
abbbbbbaa`babbaaba`aabaa_baaba`aaa`[]a
@HWI-EAS443:3:74:822:1459#0/1
GGCCAATCGGAGAGTCACCCAGGGGAGTGGAGGAAGGCTC
+HWI-EAS443:3:74:822:1459#0/1
a`aabbaa]Za_a0]aaaaZXRW[SaW^a¥`_^]^^¥¥W
@HWI-EAS443:3:74:830:873#0/1
TGGGGCATGGAAATGAGGCGCTGCCTTCTTCAGTCTCTTC
+HWI-EAS443:3:74:830:873#0/1
abab_a`_a[]`aaa`_baa`a`aa_a__[a¥__`____
@HWI-EAS443:3:74:895:676#0/1
GAAGTTCGGTGGGAGACTTTGGTCGGCAAGCTTGCGCATA
+HWI-EAS443:3:74:895:676#0/1
aaab`Z`aUaa`]a[a```aaVa`a`a`_`_[_^a¥¥¥^
@HWI-EAS443:3:74:915:1195#0/1
ATTGAAAATGAAGAGAAGATCCCAAGGACAAAGAACATGA
+HWI-EAS443:3:74:915:1195#0/1
aa`^W¥a]a`aaa^)`_`[aa_aa`Y^Z^aa`_a[_`]]
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GACTGATTCAAGCTGGATAGAACTTGATGAAATAGGAGAA
+HWI-EAS443:3:74:923:1527#0/1
abbbba[aabaabaaa_Yaabababaaaaaaaaa`aaaaa
@HWI-EAS443:3:74:937:696#0/1
CCGATTTGTTTTCAAAGAATTCCTTGGTCATGTCTTTCTC
+HWI-EAS443:3:74:937:696#0/1
aabbbbbbb_bbbabbbbbbabababbbbaabbbbbabbb_b`
@HWI-EAS443:3:74:970:492#0/1
CGAACTTCTCCAGCCTTGAAAACCTTTAGAGCCTATGTAGA
+HWI-EAS443:3:74:970:492#0/1
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@HWI-EAS443:3:75:1116:802#0/1
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+HWI-EAS443:3:75:1116:802#0/1
abbab]Zbabbabaaabbbbbaaab_a_a_ba`aa^aa^a
@HWI-EAS443:3:75:1127:686#0/1
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+HWI-EAS443:3:75:1127:686#0/1
bb[`b_^bb`WbaabaRabab]a`ab_a_WYX]_^aWP
@HWI-EAS443:3:75:1408:843#0/1
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+HWI-EAS443:3:75:1408:843#0/1
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@HWI-EAS443:3:75:151:1663#0/1
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+HWI-EAS443:3:75:151:1663#0/1
aa¥Q_aaa]Qa¥a`^¥`_U^`^___NZI[Z^]]¥OUUVVB
@HWI-EAS443:3:75:1574:42#0/1
GAATGCACTATTGAAGCACCGATTTGAGATAATTGAAGGA
+HWI-EAS443:3:75:1574:42#0/1
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@HWI-EAS443:3:75:1602:574#0/1
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+HWI-EAS443:3:75:1602:574#0/1
`b[QTab]``aa_aYU_____¥a_QY`_]a`VYQ_¥NYXP
@HWI-EAS443:3:75:1605:798#0/1
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+HWI-EAS443:3:75:1605:798#0/1
``]babIa`H_SbaWa0SZZ0¥[¥`]_^aUT_H]]^_NZ`
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+HWI-EAS443:3:75:1693:775#0/1
[b_bbabbabbabbba[aababba_aa[_b____baS``_b
@HWI-EAS443:3:75:1695:176#0/1
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+HWI-EAS443:3:75:1695:176#0/1
_b_bab`]]`Laa`aa`a_S[Z]]G[_a``baa^_VV`_Z
@HWI-EAS443:3:75:1715:956#0/1
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+HWI-EAS443:3:75:1715:956#0/1
aPYXT`TJ_LQH]UZ``a_BBBBBBBBBBBBBBBBBBBB
@HWI-EAS443:3:75:1718:277#0/1
CTGCACACTTTCCCAATAGAGCCTTCTCCACTCCCCTGG
+HWI-EAS443:3:75:1718:277#0/1
]`a^a```bbb^ZZ^bbbbbb^Z__b_X_a_aa^_^ZR[ab
@HWI-EAS443:3:75:239:577#0/1
TACATATACTGTTCACTGTCCAGCCATGATTCGGTC
+HWI-EAS443:3:75:239:577#0/1
`_aaa¥XJ¥Za^aa`¥^YX]a)`a^QW_`[¥YV]VVQNOY
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AATCAGGCCTCCTCGATTGCTTCATATAGCCCCCAAGA
+HWI-EAS443:3:75:277:840#0/1
aZZaa[OZL]aUPT_Y__[_a[____[]_¥Y¥[]RNU^¥YYU
@HWI-EAS443:3:75:27:559#0/1
CACTGTCATACTGTTAAGGTCTCCAACATCTTTGCAGTC
+HWI-EAS443:3:75:27:559#0/1
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@HWI-EAS443:3:75:29:1813#0/1
CCACTCCCCTGGGTGACTCTCCGATTGGCCATGTTTCCGA
+HWI-EAS443:3:75:29:1813#0/1
abaa_aaaa]_URFX¥`^a^__WUW¥VW_`VUSUSUTWUT
@HWI-EAS443:3:75:31:1385#0/1
GCTTGCATATGTTCAATCGGGCAACATCTTCTCCTATT
+HWI-EAS443:3:75:31:1385#0/1
aba`Y^baa`aa`aaa^a^¥``aa_a``aaaa_a`__a
@HWI-EAS443:3:75:389:583#0/1
CATGTTTCCGATTTGTTTTCAAAGAATTCCTTGGTCATGT
+HWI-EAS443:3:75:389:583#0/1
abbabbabbabbabbabbabbabbabbabbabbabbabbabb`bbb`a
@HWI-EAS443:3:75:393:1069#0/1
TGGAGACCTTAAACAGTATGACAGTGATGAGCCAGAGCCC

+HWI-EAS443:3:75:393:1069#0/1
`babaZabaW__X_aa¥baaa__a_a¥_a` [¥_aVIWJU`
@HWI-EAS443:3:75:397:1049#0/1
GCACACTTTCCCAATAGAGCCTTCCTCCACTCCCCTGGGT
+HWI-EAS443:3:75:397:1049#0/1
]bbba`L¥`bb^]aa_`a`aX`a_Z`]aa_aR`__G
@HWI-EAS443:3:75:437:1142#0/1
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+HWI-EAS443:3:75:437:1142#0/1
`aaaV`_a`aa`aa`a^`^^`^a]`Y^¥]^`¥[Z
@HWI-EAS443:3:75:496:1199#0/1
GTCAAACCACATGAGAAAGGCATAAATCCCAATTACCTCA
+HWI-EAS443:3:75:496:1199#0/1
a]a^aa_]aa^^_VT^aabb`_U^a`aaaa]aaa`a
@HWI-EAS443:3:75:508:70#0/1
TCCACAACCTTGAGGGTTTTCGGCTGAATCGAGAAAATTG
+HWI-EAS443:3:75:508:70#0/1
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+HWI-EAS443:3:75:549:904#0/1
a_]aZVbbb¥X]Za¥0^aa`aaa__`]_a^_`¥^]¥[
@HWI-EAS443:3:75:583:500#0/1
CATTCTTTGGCTGGAAGAGCCTAACATAGTCAAACCACA
+HWI-EAS443:3:75:583:500#0/1
a^bbabb]abbba^K_b¥baZ]a]`a^baZbbbbb`aaab
@HWI-EAS443:3:75:590:1007#0/1
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+HWI-EAS443:3:75:590:1007#0/1
aaabab^]_bbabbbb_^_baabbbb^bb`¥`_abba`a
@HWI-EAS443:3:75:636:1018#0/1
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+HWI-EAS443:3:75:636:1018#0/1
aa_a¥^_]W__X^a_¥^_ZaaX`a][a`][aaa¥¥`^]
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+HWI-EAS443:3:75:725:815#0/1
a`bIbbaaaabbaababaa_aaaaabaaaaaaaaa^`a
@HWI-EAS443:3:75:764:1367#0/1
GTTTCCGATTTGTTTTCAAAGAATTCCTTGGTCATGTCTT
+HWI-EAS443:3:75:764:1367#0/1
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@HWI-EAS443:3:75:767:310#0/1
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+HWI-EAS443:3:75:767:310#0/1
a`bbab^V`Zaaaa]ab`^`^a`aa_Za`Y`a^`_Z`
@HWI-EAS443:3:75:780:1064#0/1
GGGGGCTATATGAAGCAATCGAGGAGTGCCTGATTAATGA
+HWI-EAS443:3:75:780:1064#0/1
][_`a`a¥Z_`bba^]`ba^]`W`R`X[_`a`a]_aa`^a^

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+HWI-EAS443:3:75:803:524#0/1
ab^b_a^aaabaa]Sb__¥b_a`b]W`_aaa][Ya`_Y¥]
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CGATTGGCCATGTTTCCGATTTGTTTTCAAAGAATTCCTT
+HWI-EAS443:3:75:863:1499#0/1
Zaa¥^]¥a^b_]a`^a`U`^`bba¥^`a`^`^YS¥aa
@HWI-EAS443:3:75:967:1414#0/1
AAAGAATTCCTTGGTCATGTCTTTCTCTTTGACAGAAGAC
+HWI-EAS443:3:75:967:1414#0/1
aX^`^a¥ZY^b`]aYaaaa_`baaaa_baaa_`aaa_aaa
@HWI-EAS443:3:76:102:112#0/1
TGGTGCCATATTTTCCCGAGTGCCCACTTCAATTGGCTT
+HWI-EAS443:3:76:102:112#0/1
¥Z`FZ]^ababb`aab`[a_aZ`YU`_`^`a^]`^`_Z¥_
@HWI-EAS443:3:76:1042:1510#0/1
AACTAACAAGTTTGCTGCAATATGCACACATTTGGAAGTT
+HWI-EAS443:3:76:1042:1510#0/1
`_a¥b¥^`^WFXaab`W`^`aaaa¥_a]`a`dWaY`¥aO_
@HWI-EAS443:3:76:1108:1734#0/1
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+HWI-EAS443:3:76:1108:1734#0/1
ab^baaY[aa`XQZ`VD[¥]`_]L[`VV¥aVZ_[Y¥[_N^
@HWI-EAS443:3:76:1164:1442#0/1
CTGGGTCCAAAATGAATTCAATAAGGCATGTGAATTGACT
+HWI-EAS443:3:76:1164:1442#0/1
^_a`^RO^a^^a`_`b_b_bbbb```^abbabababb¥ab
@HWI-EAS443:3:76:1268:769#0/1
TTGGGGGGCTATATGAAGCAATCGAGGAGTGCCTGATTAA
+HWI-EAS443:3:76:1268:769#0/1
Y`b_^ZW`]b]a_[`^]aab^`]`TSQW]UXVJTa¥_GT[
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+HWI-EAS443:3:76:1276:884#0/1
ZQ[a``Y_aa__¥]a_a_]_[[ZX^]____]]X_¥^X^^]]
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CCTCCTCATGCTTGCGATATGTTCAATCGGGGCAACATCT
+HWI-EAS443:3:76:1283:1196#0/1
`_Z`]S_V_a_Y]]WYQHSX]QT]ZOMTW`WGY^YW¥UNM
@HWI-EAS443:3:76:1283:1326#0/1
AAGAATTCCTTGGTCATGTCTTTCTCTTTGACAGAAGACT
+HWI-EAS443:3:76:1283:1326#0/1
abba`aaaaaaaa^aaaa`aaaa`a_aa`a`]aa`__^_`
@HWI-EAS443:3:76:1288:1134#0/1
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+HWI-EAS443:3:76:1288:1134#0/1
aa`a]aaaaaa[`^^^^`^a_]_¥^^`[`^V``¥^^YS[
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+HWI-EAS443:3:76:1352:369#0/1
a_b]X]bbb__ba`^ab`aa]a`a___a^a`0^``_Zaa_
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+HWI-EAS443:3:76:1408:991#0/1
U`_bbba`bY^¥TG_b^bbba_bb¥`Ua`aSb`bbba[_
@HWI-EAS443:3:76:143:1789#0/1
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+HWI-EAS443:3:76:143:1789#0/1
[]`ba]_Z_a`aa`^]`a_aaa_a__U_¥]`a_^^¥YT
@HWI-EAS443:3:76:1470:1546#0/1
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+HWI-EAS443:3:76:1470:1546#0/1
a[[`[I]aYZNKON[UZaa]aWYZaYVX__XXZW[^XSG¥
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+HWI-EAS443:3:76:154:2014#0/1
aaaaa`a_`aaba^aba_`^a]`a^a^W]`_]_^____
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+HWI-EAS443:3:76:1585:731#0/1
a__^_UTIY]¥]U^TN[ZWG_]_VQUU]RXX]N^XYXRU
@HWI-EAS443:3:76:1590:1116#0/1
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+HWI-EAS443:3:76:1590:1116#0/1
abbba`bb^`aaaaaaaaab`a_aaaa_aa_aa``]^¥`
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+HWI-EAS443:3:76:1601:1694#0/1
a``baa`baabaW^aa`aabaaa_aa^]_____a]a^T[
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GGGGTTTTCGGCTGAATCGAGAAAATTGCTTCTCATTGTT
+HWI-EAS443:3:76:1618:397#0/1
aaabZaaaX`aX`a^__Ua]`]^__^0_ZV_Z^_^^^
@HWI-EAS443:3:76:1665:568#0/1
ATTCGATTTCCATTTTCATCGACGAACGGGGTGAATCAAT
+HWI-EAS443:3:76:1665:568#0/1
abbb`baba``aabaaaa`baaaa_^__aaXaa_`_____
@HWI-EAS443:3:76:1684:1560#0/1
CTGGAACCTGGAACCTTCGATCTTGGGGGCTATATGAAG
+HWI-EAS443:3:76:1684:1560#0/1
`]¥]_`]¥]`a`X]Za]`^UR_]]QHW^]Y¥^a]^X¥Z¥
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+HWI-EAS443:3:76:1684:599#0/1
ab¥[_bZab_^T¥V`abbb_`^¥_¥XaM]Y`aaa[``a_b
@HWI-EAS443:3:76:179:1203#0/1
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+HWI-EAS443:3:76:179:1203#0/1
_a^^ZX]__U^¥]U¥_`] ^TUMLHMS^^BBBBBBBBBB

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+HWI-EAS443:3:76:17:1194#0/1
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AAAGGAATCCCATAGACTCCTACTGGCCATTTCTTGCTT
+HWI-EAS443:3:76:192:573#0/1
`a`b`¥^_[^aa`_aaa_____]_¥_^]_[RRXXLUVTUUT
@HWI-EAS443:3:76:233:52#0/1
CCCAGATCTCTAGCAAGCTGGGTCCAAAATGAATCAATA
+HWI-EAS443:3:76:233:52#0/1
abbaa]aaaaa`Y`_]`_aa_] ^Y¥^Y^^^Z]_ZZ]W][
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+HWI-EAS443:3:76:234:751#0/1
aWI_Z[Naaaa]__aaMPYUY__XNVXY]_TUV¥]XPW^T
@HWI-EAS443:3:76:28:1787#0/1
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+HWI-EAS443:3:76:28:1787#0/1
__a`ab`_[aZ`aa_Yaa_aa[VXRUIV`^OVUTY[U[W[
@HWI-EAS443:3:76:29:1199#0/1
GGGGCTATATGAAGCAATCGAGGAGTGCCTGATTAATGAT
+HWI-EAS443:3:76:29:1199#0/1
a__`aY^]_a```[Z¥_]_^VV^X^G]V_]_V[^[YRTVX
@HWI-EAS443:3:76:322:1435#0/1
CATTAATCAGGCACTCCTCGATTGCTTCATATAGCCCCC
+HWI-EAS443:3:76:322:1435#0/1
abbb_U_bba` `aaaa_`^[]aaa` `aaa_U]a` `_] [Z^
@HWI-EAS443:3:76:347:101#0/1
CACTTTCCCAATAGAGCCTTCCTCCACTCCCCTGGGTGAC
+HWI-EAS443:3:76:347:101#0/1
abbbbab`b`abb_a_`^a_`aa_]X`]^`XX]^UR^WS
@HWI-EAS443:3:76:399:958#0/1
TGGCCACCAAAGCGGACTACACCCTTGACGAAGAGAGCAG
+HWI-EAS443:3:76:399:958#0/1
X¥¥b`¥`¥bb_V_a]a` `a` `aaZWZ¥¥abYZaaa`a]` ¥
@HWI-EAS443:3:76:420:351#0/1
TTTCGACTGACGAAAGGAATCCCATAGACTCCTACTGGC
+HWI-EAS443:3:76:420:351#0/1
aabbaab`babbaabaaaa`a_¥a` `a]_aaR_a_`^`__
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ATCCCAATTACCTCATGGCTTGAAGCAGGTGCTAGCAGA
+HWI-EAS443:3:76:509:1961#0/1
aaababaaaaaa_aa_U¥` __]Z¥` TUQUZNR_VYWZZW[
@HWI-EAS443:3:76:51:1195#0/1
GGGGCTATATGAAGCAATCGAGGAGTGCCTGATTAATGA
+HWI-EAS443:3:76:51:1195#0/1
a[`^a_a_b^XW_¥aaa^__^Z^^_W]__U]^]]_^^RZ
@HWI-EAS443:3:76:534:1501#0/1
CCTCCTCATGCTTGCGATATGTTCAATCGGGCAACATCT

+HWI-EAS443:3:76:534:1501#0/1
aaT`_Z¥TabbaaaY`¥0^^TXZ^a_a`a]]^_^^`]N¥
@HWI-EAS443:3:76:562:806#0/1
AAGAATTCCTTGGTCATGTCTTTCTCTTTGACAGAAGACT
+HWI-EAS443:3:76:562:806#0/1
Q]_`¥`bbbaaba_aaab_aabaaaaaa`aaaa_a_a^
@HWI-EAS443:3:76:57:1711#0/1
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+HWI-EAS443:3:76:57:1711#0/1
a^_`]baabbaaaTzaaaaaaaaa_^[K]_]_a`aa_
@HWI-EAS443:3:76:584:1912#0/1
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+HWI-EAS443:3:76:584:1912#0/1
aaQK¥_b`a_aa_`a`^¥a^^_aa^_QRUa__`_a`UWa
@HWI-EAS443:3:76:615:1931#0/1
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+HWI-EAS443:3:76:615:1931#0/1
aaaaaW`ab^^aaa``]a`a][UY^^_`^`]`U_¥^]]U
@HWI-EAS443:3:76:622:1403#0/1
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+HWI-EAS443:3:76:622:1403#0/1
aaa_Zaaaaaaaa`a`a[YV_a_¥[W[SUY[TKXZV^V
@HWI-EAS443:3:76:640:740#0/1
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+HWI-EAS443:3:76:640:740#0/1
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@HWI-EAS443:3:76:658:959#0/1
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+HWI-EAS443:3:76:658:959#0/1
a`_Z^Y¥a[R_]__[W`__^TDR^^¥__Z__¥__^XUV¥
@HWI-EAS443:3:76:680:1781#0/1
TCGACACTTGGCCTATCGCAGTCCTCAAGAGCATGTCTCC
+HWI-EAS443:3:76:680:1781#0/1
ab`bbbaa`a__abaaaaaa_aa`aaa_a_aa_`_¥```
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CCCCTTCAATTGGCTTGTCTTCTTCATGTTCTTTGTCCT
+HWI-EAS443:3:76:683:1446#0/1
abaaaaaba`aa_baaJ_`_a_a`a_`X^^_a^^_a^
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+HWI-EAS443:3:76:711:1146#0/1
`abbbb`Y`aaaababbaabb_`_abaa`aba`]aa`aa_
@HWI-EAS443:3:76:727:1599#0/1
GAAAATCGAAACTAACAAGTTTGCTGCAATATGCACACAT
+HWI-EAS443:3:76:727:1599#0/1
`^Yb_W^¥V¥Ya``YXPXZY_U[W¥U_`¥S`[_X_W]__
@HWI-EAS443:3:76:784:1625#0/1
CATGGAATGAGGCGCTGCCTTCTTCAGTCTCTTCAGCAG
+HWI-EAS443:3:76:784:1625#0/1
a`a_Y_^Z^R^¥Y^LZZ[[]W¥Y`X]WNPT_^V¥ULNX^

@HWI-EAS443:3:76:818:96#0/1
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+HWI-EAS443:3:76:818:96#0/1
a`^b`bbbaa]baaaaba`baa`b_b`Z^a^`^`^__a`]
@HWI-EAS443:3:76:849:1465#0/1
TGAAAATGAAGAGAAGATCCCAAGGACAAAGAACATGAAG
+HWI-EAS443:3:76:849:1465#0/1
a`^^`a`aaa`_]Z_]_____^^]_]_]^^]^^]]
@HWI-EAS443:3:76:859:1883#0/1
TTGTCCTTGGGATCTTCTCTTCATTTTCAATGTCCTGTAG
+HWI-EAS443:3:76:859:1883#0/1
`a]]aaaaaaaaX__a```aa`aa`__^aa____^a`¥_Za^
@HWI-EAS443:3:76:85:1005#0/1
CATGGAATGAGGCGCTGCCTTCTTCAGTCTCTTCAGCAG
+HWI-EAS443:3:76:85:1005#0/1
a]VaWIW¥]^`^_V]^`¥`U^ZVa[_`¥[R[¥_TU¥U[QVY
@HWI-EAS443:3:76:88:86#0/1
GGGAGACTTTGGTCGGCAAGCTTGCGCATAGTTCCTGTAA
+HWI-EAS443:3:76:88:86#0/1
¥aaab_OY¥aaaY_aX]a]QZU]^U¥U[WQZXZU¥WZGGV
@HWI-EAS443:3:76:894:1493#0/1
GGGTTTTCGGCTGAATCGAGAAAATTGCTTCTCATTGTTC
+HWI-EAS443:3:76:894:1493#0/1
a]¥L¥^¥aaa_T^a`TTVR`_ZU_LP^ZVLFJSSR¥SROR
@HWI-EAS443:3:76:905:1189#0/1
AGAATTCCTTGGTCATGTCTTTCTCTTTGACAGAAGACTC
+HWI-EAS443:3:76:905:1189#0/1
ab```aaaa`a`]^`a`aZaaa^`^Za`_a_V_a_¥WWW]]
@HWI-EAS443:3:76:90:2001#0/1
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+HWI-EAS443:3:76:90:2001#0/1
W¥¥U^]]0]^`baa¥Zabb¥Z_`a`b]RL]_RL]_XWY^`]
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+HWI-EAS443:3:76:926:1292#0/1
_]`aaa`aaaa__a`aa_a`aa`_a_a`_`_a¥aa`a`_`_¥
@HWI-EAS443:3:76:942:1415#0/1
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+HWI-EAS443:3:76:942:1415#0/1
TT__[bSbTbUb_U]bab¥`Wa^`a^`a__YLIRaa_WW`
@HWI-EAS443:3:76:949:578#0/1
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+HWI-EAS443:3:76:949:578#0/1
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+HWI-EAS443:3:76:950:327#0/1
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@HWI-EAS443:3:76:960:140#0/1
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+HWI-EAS443:3:76:960:140#0/1
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+HWI-EAS443:3:76:990:1663#0/1
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@HWI-EAS443:3:77:1000:1641#0/1
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+HWI-EAS443:3:77:1000:1641#0/1
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+HWI-EAS443:3:77:1013:1261#0/1
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+HWI-EAS443:3:77:1014:1209#0/1
a]¥_aa_a_XZ]V^aaaYb[aa]`a`_ba`__`aa_Xaa
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+HWI-EAS443:3:77:1019:137#0/1
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@HWI-EAS443:3:77:1040:564#0/1
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+HWI-EAS443:3:77:1040:564#0/1
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+HWI-EAS443:3:77:1264:1396#0/1
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+HWI-EAS443:3:77:1280:1596#0/1
SW_b]``_babaa`aab`^^¥¥`^^]ba^babaab^`aa
@HWI-EAS443:3:77:1374:1242#0/1
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+HWI-EAS443:3:77:1435:1327#0/1
a`bbabb_bababbbbababb^bbbbabbabbbabba_ba
@HWI-EAS443:3:77:1488:508#0/1
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]aIa`ba`b`_aa`^aa[___a`aaa__`]^_`Z]aaa_V^
@HWI-EAS443:3:77:1598:511#0/1
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+HWI-EAS443:3:77:1598:511#0/1
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+HWI-EAS443:3:77:1655:1153#0/1
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¥^]a`^aab`baaa`_aabb`baU`ba[aaTaaab¥`aa
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+HWI-EAS443:3:77:1667:1314#0/1
Q_b^bb[La`abbbT[ZZ__TZ`__b]Zabbb¥T¥b^]`a
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+HWI-EAS443:3:77:1678:936#0/1
Wabb`a`^a¥]UVb__XU_]Vab`a`^¥¥b_RI`baH_^]
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aaa_¥aaZQ_^U_¥_^[_^`¥Z`^_aa__a^^^Xa_VGU¥
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+HWI-EAS443:3:77:1723:1262#0/1
_S_Vaa¥]`¥]aaXW_aYaGXa]`_W_`Xaa]`_a]]_V¥
@HWI-EAS443:3:77:26:1520#0/1
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+HWI-EAS443:3:77:26:1520#0/1
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aaa`a`_`_a^`a_^_Y¥^[^]U_^R]W^VV^_VZVV[U]Y
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ab¥b`bbaa_`_`aa`^`^Z_X__WQ^Ya_UW^`[USTR[]
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+HWI-EAS443:3:77:396:802#0/1
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+HWI-EAS443:3:77:418:245#0/1
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+HWI-EAS443:3:77:446:1651#0/1
a`a`_`a`^aa¥aaa`_]`a^_¥¥SWU`^W]_¥^`^SS¥SWU
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+HWI-EAS443:3:77:605:1202#0/1
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@HWI-EAS443:3:77:665:26#0/1
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+HWI-EAS443:3:77:687:690#0/1
a^Ub_W^T[XR_Q]UJWZ^aab]aZU^aba_aaa¥a_Yaa
@HWI-EAS443:3:77:732:1368#0/1
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+HWI-EAS443:3:77:732:1368#0/1
aabaabaa`ba_a`_a`_`_a`_¥a`_`_`_^`_`^a`aa]
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+HWI-EAS443:3:77:75:930#0/1
aa_baaaa_bb`aba`a^]`a`a`a^^`_a]Y`a``a``
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+HWI-EAS443:3:77:763:265#0/1
a`aaabb^abab`T`aab_baaaa^aaaa__aaa`_`^a
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+HWI-EAS443:3:77:772:673#0/1
a]bbbab``abb_b_bab`Za_bbabaab]`U`bbbYb`b
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+HWI-EAS443:3:77:782:1853#0/1
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ab`X0_aY_bba`aabSa^T[b`Xa_bba_XaaX_a__]_`
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+HWI-EAS443:3:77:834:1694#0/1
]¥X¥Zbbaab_abXaabU¥Y]^J[bWM_a`_V`_ZPaa``
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aaZ^X¥¥¥]G0a_]aYb]]`_]aa`]TY¥^`]^`_]`^]G
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+HWI-EAS443:3:78:108:1867#0/1
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+HWI-EAS443:3:78:1090:966#0/1
a^X[WMO¥`[ZXPQY`a^X]X]X]]VWU[R_U]]UU^YZY
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+HWI-EAS443:3:78:1135:1066#0/1
``aa¥aa`a[aa^_a_a¥a^a`a_^_]a_[GHRSSBB
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+HWI-EAS443:3:78:1214:649#0/1
aa^`]aaa``a[^`a_aZVHPY¥T[_^VV[[UY`][VY
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+HWI-EAS443:3:78:1235:1344#0/1
abb_R_Za`a`abbaab`X`T^^_`aaab¥aabaU]^]^`
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+HWI-EAS443:3:78:124:1143#0/1
aa`a`aa``bZX_¥aaaa`a`aaa`[aadW_aa`_X_^
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aa^TSbb_bT^`¥0HR^X_aa]]YX`OFVL^^[QYU[T[W
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+HWI-EAS443:3:78:134:989#0/1
abXa``aaaaaaaaaaaa^aaaa`^`a^a_a`a`[[¥`_
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+HWI-EAS443:3:78:1384:418#0/1
aZa^aaaaaa]`_a`_a_aa]_¥[YHSRRJUTR[QQBBBB
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+HWI-EAS443:3:78:1537:1591#0/1
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+HWI-EAS443:3:78:154:1278#0/1
abab]0^aa^`aa`aaaa^Z`aa_`aaa^]a_aa^aa^U`
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+HWI-EAS443:3:78:1567:218#0/1
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+HWI-EAS443:3:78:1570:1295#0/1
aabZZaaabbaaaaaZaaa_aXTZ_`a^a_`_a`[``]_P^^
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+HWI-EAS443:3:78:1593:654#0/1
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+HWI-EAS443:3:78:1614:806#0/1
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+HWI-EAS443:3:78:216:804#0/1
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+HWI-EAS443:3:78:219:1561#0/1
abbZW]ZZ¥a¥N[QZ_J][VV[a`a``¥[S_b]I``_a]
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+HWI-EAS443:3:78:237:1434#0/1
`_XXQ_Z]]Q_a^L_Ra]W_ZYU`ZUZ`Z^^UP]XZX`_¥
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a¥Q]NZSOU]Z^`Z]OW_¥`_a_Za[`Z^_AP[b_Z`¥LD
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X^ZaY^aa_¥_a]^_M[¥S^`¥`_a^`¥`_Y__Z__`¥^
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abbaaaaaaaaaaba_aaaaaa`ab`^a[[^V^NUYWOV]
@HWI-EAS443:3:78:295:1329#0/1
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+HWI-EAS443:3:78:295:1329#0/1
a`bab`a`]^`¥V_`^`]]aa`_a`____`^^TZ[][_
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+HWI-EAS443:3:78:323:1876#0/1
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@HWI-EAS443:3:78:326:427#0/1
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+HWI-EAS443:3:78:326:427#0/1
ab_`ababb`^`aba`^`bbbbbb_aaa^abaaabaaa`]Za
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+HWI-EAS443:3:78:350:515#0/1
ab`a`aa]a`_`^`^_a[_`_`_`a^^^_`XZ^`^^^_Z]
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+HWI-EAS443:3:78:393:247#0/1
aabbabbbbbbaaaaaabab`_a`aaa`^^`[a^aaaa`
@HWI-EAS443:3:78:453:256#0/1
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+HWI-EAS443:3:78:453:256#0/1
aaaaa`_aabaa`aaa`]^`_]`[XR¥TYMU_NZUWVZUV
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+HWI-EAS443:3:78:484:213#0/1
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+HWI-EAS443:3:78:509:114#0/1
a`a^a`_aab^a`_a^`__`____]VY_]_]_]_Y]ZVZ
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a`aa_aa`aa]^`aaa__a__^a^^^_`_`_`^_]_^_
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+HWI-EAS443:3:78:590:1909#0/1
aaa_VSa¥^b^babab^]¥aa`¥ZU`a_]aY`a`[_^^^`^

@HWI-EAS443:3:78:620:661#0/1
AACTTCTCCAGCCTTGAAAACCTTTAGAGCCTATGTAGATG
+HWI-EAS443:3:78:620:661#0/1
XZUPF[` []V¥XWYZ]aU]`[S[¥Za]Y^P]aVZaYT
@HWI-EAS443:3:78:755:1144#0/1
CAGATCTCTAGCAAGCTGGGTCCAAAATGAATTCAATAAG
+HWI-EAS443:3:78:755:1144#0/1
][[]]aba^]__aa`_XXUY`Y]]Y_aVJ[X]_Z[YYZ
@HWI-EAS443:3:78:783:305#0/1
TGCCCCGATTGAACATATCGCAAGCATGAGGAGGAACTAT
+HWI-EAS443:3:78:783:305#0/1
aa`aaaa_`aabaa`b`a`__a]__`]]`_a`__]^_`
@HWI-EAS443:3:78:816:78#0/1
AGCCAATTGAAGTGGGCACTCGGTGAAAATATGGCACCAG
+HWI-EAS443:3:78:816:78#0/1
ab`_aabba`aaZ`ab`_Xa^a`Wa]____^^aaaWZRSV`
@HWI-EAS443:3:78:818:579#0/1
TTCCGATTTGTTTTCAAAGAATTCCTTGGTCATGTCTTTC
+HWI-EAS443:3:78:818:579#0/1
aaa`a^aaaa^aa_]a^`_[Z`a]]a`a`^¥^aa_¥`_]¥
@HWI-EAS443:3:78:820:79#0/1
CTGCACAGGATGCATTGAGCAAGCCGTATTTATGTACAC
+HWI-EAS443:3:78:820:79#0/1
a_Y`_aaaa[`a¥` ``Y]_`_`XY]VU¥_`_`XYTVN
@HWI-EAS443:3:78:852:1088#0/1
ATCCGAAAATCGAAACTAACAAGTTTGCTGCAATATGCAC
+HWI-EAS443:3:78:852:1088#0/1
a`a`_`aaa^aaa_[`]`a__`^YU`__` `a^]Z__`^Z^^
@HWI-EAS443:3:78:890:340#0/1
CTTGGTCATGTCTTTCTCTTTGACAGAAGACTCGGCCTCA
+HWI-EAS443:3:78:890:340#0/1
` `bb_T¥ba`X_a_aVa_b`ba_S^bbaba` `abbY]_X`
@HWI-EAS443:3:78:951:240#0/1
GGGGTTTTCGGCTGAATCGAGAAAATTGCTTCTCATTGTT
+HWI-EAS443:3:78:951:240#0/1
aaabTaa`Y` `a`a__Z]^`^^]__[¥Z^____^^__Y^
@HWI-EAS443:3:78:965:944#0/1
CATGGAAATGAGGCGCTGCCTTCTTCAGTCTCTTCAGCAG
+HWI-EAS443:3:78:965:944#0/1
^aaaba[bbbbbbbaaab` `abaaa`bb__a]ba]`aa`b
@HWI-EAS443:3:78:999:461#0/1
GGAGTCTATGGGATTCCTTTTCGTCAGTCCGAAAGAGGCGA
+HWI-EAS443:3:78:999:461#0/1
a]babb[a¥b¥` [V¥b^^U¥¥`aaWS__W_¥aZ`a]a]
@HWI-EAS443:3:79:1036:1076#0/1
AGCGGACTACACCCTTGACGAAGAGAGCAGGGCAAGAATC
+HWI-EAS443:3:79:1036:1076#0/1
a`aaa`_`aaaaaaaa`aaaa`_`aaaTaa` `^_a_
@HWI-EAS443:3:79:1086:551#0/1
GTTTCCGATTTGTTTTCAAAGAATTCCTTGGTCATGTCTT

+HWI-EAS443:3:79:1086:551#0/1
a_aa``_Z`aa^aaa^aa``_aa__aaa^a_a^Waa
@HWI-EAS443:3:79:1172:945#0/1
GCTTGCTAGAGATCTGGGCTCTGGCTCATCACTGTCATAC
+HWI-EAS443:3:79:1172:945#0/1
abbaa`^baa_aaaaaaaaa`aaaaa`_a^aa`Yaa`_
@HWI-EAS443:3:79:1237:987#0/1
CGATTGGCCATGTTTCCGATTTGTTTCAAAGAATTCCTT
+HWI-EAS443:3:79:1237:987#0/1
abbbbbbbab`_abbaa_abbb`bbb_H_aab_b`_^bb
@HWI-EAS443:3:79:1238:1630#0/1
GAAAGGCATAAATCCCAATTACCTCATGGCTTGAAGCAG
+HWI-EAS443:3:79:1238:1630#0/1
aUY`babaab`¥baabab]ab`Y``aaa`V¥a``_]V[____
@HWI-EAS443:3:79:1397:717#0/1
ATCGAAACTAACAAGTTTGCTGCAATATGCACACATTTGG
+HWI-EAS443:3:79:1397:717#0/1
aa_aaab^aa`Sa`Xa`__Z`P__`_^¥^XYU^_a`_
@HWI-EAS443:3:79:1409:980#0/1
ACCGTTCTCTTTGTAATCATACAAATCAGGAAGAAATTT
+HWI-EAS443:3:79:1409:980#0/1
a``_a__Y^^]ab_aaa`a¥Z]aaabV`_WW^X^TX`a`
@HWI-EAS443:3:79:141:613#0/1
AAATGAATTCAATAAGGCATGTGAATTGACTGATTCAAGC
+HWI-EAS443:3:79:141:613#0/1
_abaaa]aaaa`a`a_a_aa^a^Z``_]`aY_]¥```
@HWI-EAS443:3:79:1428:1139#0/1
AGAATATGGGAAGATCCGAAAATCGAAACTAACAAGTTT
+HWI-EAS443:3:79:1428:1139#0/1
¥a¥¥`aa`aba]V[a`Y`b``^aa`b[ZZY``][aYVSa`
@HWI-EAS443:3:79:1557:1443#0/1
GGCCATTTCTTGCTTATAGTGAAAAGCCTAGTTTTGATT
+HWI-EAS443:3:79:1557:1443#0/1
`]a_a^aZ^a`[a^aZaaa_¥__`a¥]a_a_Z_Xa[a`
@HWI-EAS443:3:79:1579:314#0/1
AATATGGGAAGATCCGAAAATCGAAACTAACAAGTTTGC
+HWI-EAS443:3:79:1579:314#0/1
abbb`baZ[aabb_GZbbbbaaZa`aa_aaa`b_bZ`¥`^
@HWI-EAS443:3:79:1660:858#0/1
GAATTCAATAAGGCATGTGAATTGACTGATTCAAGCTGGA
+HWI-EAS443:3:79:1660:858#0/1
``bbbbbabbbab`abaaa_abbaa_baaba`b_bPaaaa
@HWI-EAS443:3:79:1662:1330#0/1
TTTCGGCTGAATCGAGAAAATTGCTTCTCATTGTTTCAGGC
+HWI-EAS443:3:79:1662:1330#0/1
aba`aa_a]ba_[a^aZ`_aa^`a_¥`_¥`^¥UaSVR_U
@HWI-EAS443:3:79:1702:1904#0/1
ACCAGAAAAAGTAGACTTTGATGACTGCAAAGATGTTGGA
+HWI-EAS443:3:79:1702:1904#0/1
[Y^a^^baaabNaaa_aaa__¥¥`aaa_aaWaa_aW^aa_

@HWI-EAS443:3:79:171:1643#0/1
GATGAAATGGGGCATGGAAATGAGGCGCTGCCTTCTTCAG
+HWI-EAS443:3:79:171:1643#0/1
aaZ^ZQ_¥a`aaba`^^]YX¥]`WN]¥a¥[`^[[^[^Y]Z
@HWI-EAS443:3:79:1739:1691#0/1
GGGGGCTATATGAAGCAATCGAGGAGTGCCTGATTAATGA
+HWI-EAS443:3:79:1739:1691#0/1
_bbbbabaabbb``ab`a`baaaaa]aaU_a_aaa``_`
@HWI-EAS443:3:79:1758:168#0/1
GGGGCATGGAAATGAGGCGCTGCCTTCTTCAGTCTCTTCA
+HWI-EAS443:3:79:1758:168#0/1
S_PT[_bbb_aaaba`aa`Ua[]b^K_bbU`bb^babaZ_
@HWI-EAS443:3:79:1780:588#0/1
AATCAATAATTGTAGAATCTGGTGACCCGAATGCACTATT
+HWI-EAS443:3:79:1780:588#0/1
ab]aabb^abba¥baaaaa_][[``_a`^^^]Z__a`
@HWI-EAS443:3:79:205:306#0/1
GGGCACTCGGTGAAAATATGGCACCAGAAAAAGTAGACTT
+HWI-EAS443:3:79:205:306#0/1
abbbbaab¥VaaaaaaaaaZ^]_aa`]X`adW`_`_`
@HWI-EAS443:3:79:318:1068#0/1
GTTTCCGATTTGTTTTCAAAGAATTCCTTGGTCATGTCTT
+HWI-EAS443:3:79:318:1068#0/1
a[a`ab¥P¥¥`aU]a]aZT]VSZ^^¥`¥[``_W`_¥^YY¥W
@HWI-EAS443:3:79:336:1457#0/1
TGTGAATTGACTGATTCAAGCTGGATAGAACTTGATGAAA
+HWI-EAS443:3:79:336:1457#0/1
ab]a_abaa`aaabaaaa`aa¥a[aa`aa_aa``aa`_`
@HWI-EAS443:3:79:354:1766#0/1
ATTTTCACCGAGTGCCCACTTCAATTGGCTTGTCTCTTC
+HWI-EAS443:3:79:354:1766#0/1
Z¥VWRZ`aa^Z[FYZ]U]__^_X]VRXZ`BBBBBBBBBBB
@HWI-EAS443:3:79:409:1172#0/1
TGTGGTTTACTATGTTAGGCTCTTTCCAGCCAAAGAATG
+HWI-EAS443:3:79:409:1172#0/1
ab`aa`aaaaabaa`a`[aaa_`a`a`a`_][0¥a`¥VXY
@HWI-EAS443:3:79:409:1197#0/1
GGGGCATGGAAATGAGGCGCTGCCTTCTTCAGTCTCTTCA
+HWI-EAS443:3:79:409:1197#0/1
`^]_aW¥b[JTX[aa^T^¥__a^¥]a`^YUXTWV^[]ZU]
@HWI-EAS443:3:79:426:1600#0/1
GAGAACCGGTTCAATTGAAATTGGAGTAACACGGAGGGAAG
+HWI-EAS443:3:79:426:1600#0/1
``aabbbbbb¥^bb`aaa`b```abYX_baa``aaaaa`
@HWI-EAS443:3:79:426:841#0/1
CCACTCCCCTGGGTGACTCTCCGATTGGCCATGTTTCCGA
+HWI-EAS443:3:79:426:841#0/1
ab`a[aaaaXX`_UaaZ[[^_]`^¥^¥WR]VOM^V¥^TWXQ
@HWI-EAS443:3:79:432:399#0/1
CACCTTGACGAAGAGAGCAGGGCAAGAATCAAACTAGG

+HWI-EAS443:3:79:432:399#0/1
abaaaaaaaaab`_a`a`a`_a_]_a`a`_a^`_`_^`_a]
@HWI-EAS443:3:79:43:1904#0/1
GGTTTGACTATGTTAGGCTCTTCCAGCCAAAGAATGTCT
+HWI-EAS443:3:79:43:1904#0/1
`¥L¥_WM`aa]M[^_]`_]__^aa^^[aaaaa`a`^QZ¥
@HWI-EAS443:3:79:442:1282#0/1
GGTTTTTCGGCTGAATCGAGAAAATTGCTTCTCATTGTTCA
+HWI-EAS443:3:79:442:1282#0/1
][Rbbba`a___b_aZQ^^a¥a`^aaaab_X`^^`^`
@HWI-EAS443:3:79:465:1483#0/1
TGGTGCCATATTTTACCAGGTGCCACTTCAATTGGCTT
+HWI-EAS443:3:79:465:1483#0/1
a^PYb]H^¥R¥]`]]bb`¥]]V_abaZa`b^YZZZ¥ZU
@HWI-EAS443:3:79:522:1869#0/1
ATAAAAGGAAGGTCTCATTGAGAAATGATACTGATGTGG
+HWI-EAS443:3:79:522:1869#0/1
VYZK^YOU¥W[Y^aa`a``V¥X^`_```a`Wa_]UY
@HWI-EAS443:3:79:56:758#0/1
AAAGAATTCCTTGGTCATGTCTTTCTCTTTGACAGAAGAC
+HWI-EAS443:3:79:56:758#0/1
aY`_TU`aa`aaa_]aaa`Y```___a`a`Sb]^ZZX[]
@HWI-EAS443:3:79:596:1023#0/1
TACTGTTTAAGGTCTCCAACATCTTTCAGTCATCAAAGT
+HWI-EAS443:3:79:596:1023#0/1
`¥`^a]aa]]¥^S]`_]_TX__aa`_`^aa`^^`^`_aa[[¥
@HWI-EAS443:3:79:640:1100#0/1
GTCCTTGGGATCTTCTTTCATTTTCAATGTCCTGTAGCT
+HWI-EAS443:3:79:640:1100#0/1
aYa_QW[OTRYa_^[W[X[TTQYP^^[_]Za^YXM^¥`R
@HWI-EAS443:3:79:664:1343#0/1
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+HWI-EAS443:3:79:664:1343#0/1
]bbb]aaaabaaabaaabaaa_aa^aa_aaaa`a¥[`_a
@HWI-EAS443:3:79:664:854#0/1
GGGGGCTATATGAAGCAATCGAGGAGTGCCTGATTAATGA
+HWI-EAS443:3:79:664:854#0/1
aa_baaababaaaaabaa`aa`a_a_a_`aaa^a_`_a_
@HWI-EAS443:3:79:677:1449#0/1
CATGGCCTCGACTTGGCCTATCGCAGTCTCAAGAGC
+HWI-EAS443:3:79:677:1449#0/1
[a^¥]^ab_`_¥a¥_]_``ababababa]`aa]a``_X_b
@HWI-EAS443:3:79:753:1913#0/1
CACCACTGTCCAGCCATGATTCGGTCTCTTCTTCAATT
+HWI-EAS443:3:79:753:1913#0/1
a_aaUaaa¥baa`aaba[NVS]_[YGVLR[_]]J]¥¥Y[¥
@HWI-EAS443:3:79:861:868#0/1
CCCCGTTTCGATGAAATGGAAATCCGAATACATGAAAC
+HWI-EAS443:3:79:861:868#0/1
aba`X_]ZHY¥^_[]^[_Z__^_]¥_]¥Q_`[V[]^¥

@HWI-EAS443:3:79:865:1772#0/1
CAAGGCCGTATTTATGTACTCCCTTCATTATGTATTCA
+HWI-EAS443:3:79:865:1772#0/1
Yb_Q]`b[Rbb_P`]YXS_]^^_aaR^X`a_T]__[_^aU
@HWI-EAS443:3:79:950:1340#0/1
ACGAGGGGGAGGGAATACCACTATATGATGCAATCAAATG
+HWI-EAS443:3:79:950:1340#0/1
_Y`_UQVSV]X_`aP¥_a]_P¥]`_ZWU^¥¥^`__X¥ZU
@HWI-EAS443:3:79:968:1942#0/1
AGAGCCTTCCCTCCACTCCCCTGGGTGACTCTCCGATTGGC
+HWI-EAS443:3:79:968:1942#0/1
aaaaaaaaaaaa¥`a_`aaa_`a^^[_a¥``^[_Y`¥¥¥W_
@HWI-EAS443:3:7:1006:765#0/1
CATGGAATGAGGCGCTGCCTTCTTCAGTCTCTTCAGCAG
+HWI-EAS443:3:7:1006:765#0/1
abbabaaa`aaab^bbaa¥^a`Waa]``^_]a_WN_Y_a
@HWI-EAS443:3:7:1020:1645#0/1
GAATACCACTATATGATGCAATCAAATGCATGAAGACATT
+HWI-EAS443:3:7:1020:1645#0/1
a]a`ZP]_]aaaa]``]a`aY^__`¥aa__^a`__^¥_]_
@HWI-EAS443:3:7:103:1939#0/1
GGACACTTCTGCTGTAAAATAGTTCCTCCTCATGCTTGCG
+HWI-EAS443:3:7:103:1939#0/1
^a[`S[¥H¥_`^¥b`b¥¥abab]Z¥`_aa]W]a[_]Ua]¥a
@HWI-EAS443:3:7:104:823#0/1
AGCCAACAAAATAAAATCTGAGAAGACACACATTCACATC
+HWI-EAS443:3:7:104:823#0/1
[abbabab^a_ab`^_aaaa_`^_a```_aYU`aaaaaa`
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+HWI-EAS443:3:7:1222:1885#0/1
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@HWI-EAS443:3:7:1229:527#0/1
CCTGGGTGACTCTCCGATTGGCCATGTTTCCGATTTGTTT
+HWI-EAS443:3:7:1229:527#0/1
Z_[a_¥`a_¥¥^^^Va`Y[a__a`^_X_a^[_Uaa]_H¥_
@HWI-EAS443:3:7:1333:1235#0/1
TGGGGGGCTATATGAAGCAATCGAGGAGTGCCTGATTAAT
+HWI-EAS443:3:7:1333:1235#0/1
aaa`aa``aaaaa_`_`_aaa]_____¥`SW__¥_`^_`
@HWI-EAS443:3:7:1356:700#0/1
ATGTATTCAGTAGCCCTGCAGTGGGACACTTCTGCTGTAA
+HWI-EAS443:3:7:1356:700#0/1
ab_Z_b_abbbaa]ZV`a_aa¥^^`Ua_a`V`aX_a]aa
@HWI-EAS443:3:7:1401:1050#0/1
AATCAGGCACTCCTCGATTGCTTCATATAGCCCCCAAGA
+HWI-EAS443:3:7:1401:1050#0/1
aab`a`aba_aaaa`ba_aa_aaUaaa`a_YW[WV]_`^_`
@HWI-EAS443:3:7:1402:1103#0/1
GAAAAAGTAGACTTTGATGACTGCAAAGATGTTGGAGACC

+HWI-EAS443:3:7:1402:1103#0/1
a`^a#b`a_a_aaa`a`_^_aYa]_a__a_^`[W][ZT
@HWI-EAS443:3:7:1403:323#0/1
GGGGTTTTCGGCTGAATCGAGAAAATTGCTTCTCATTGTT
+HWI-EAS443:3:7:1403:323#0/1
^aab]]a[¥aa_¥RZZXYN]^RVVZW[LHV]^YG^VBB
@HWI-EAS443:3:7:1448:975#0/1
AGTAGGAGTCTATGGGATTCCTTTCGTCAGTCCGAAAGAG
+HWI-EAS443:3:7:1448:975#0/1
a_S_bb_^¥ZaU_baa]ZZUU¥^a_a[X^`RZX^VW_`¥`
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CATGGAATGAGGCGCTGCCTTCTTCAGTCTTTCAGCAG
+HWI-EAS443:3:7:1477:1352#0/1
abb`^a]^`aaba`bb_Va_^`aa^_aU^`]aa¥aW_a
@HWI-EAS443:3:7:149:192#0/1
CATGGAATGAGGCGCTGCCTTCTTCAGTCTTTCAGCAG
+HWI-EAS443:3:7:149:192#0/1
aa`a```a`aaaaaaab_^a`_`¥^¥¥¥_`^_UQ¥`Q¥_
@HWI-EAS443:3:7:1505:1009#0/1
CAGATTTGCCAGTAAGGTCCTGCACACTTTCCCAATAGA
+HWI-EAS443:3:7:1505:1009#0/1
abbbbbbbbaabaabab`¥ba_aaaaab`_Y_a^aaaa
@HWI-EAS443:3:7:158:597#0/1
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+HWI-EAS443:3:7:158:597#0/1
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@HWI-EAS443:3:7:1742:442#0/1
CTTGGGGGCTATATGAAGCAATCGAGGAGTGCCTGATTA
+HWI-EAS443:3:7:1742:442#0/1
Z_^`bbbb[abbbba[baaaa[aa¥0Q]a[X^aVK[_]a`_
@HWI-EAS443:3:7:1746:693#0/1
GCATATTGCAGCAAACCTGTTAGTTTTCGATTTTCGGATCT
+HWI-EAS443:3:7:1746:693#0/1
aa_`Z]__QVTX[^[M]`_Z`QVS[XQWL]WYWSMBBBBB
@HWI-EAS443:3:7:1776:102#0/1
GGGGGCTATATGAAGCAATCGAGGAGTGCCTGATTAATGA
+HWI-EAS443:3:7:1776:102#0/1
R_bb_T[a_b]baVbabba¥b`b][bVb[]b`ab`]Z_b`
@HWI-EAS443:3:7:1788:965#0/1
ACCGATTTGAGATAATTGAAGGAAGAGACCGAATCATGGC
+HWI-EAS443:3:7:1788:965#0/1
YVXZ_aabb_b_b`]aaaa`a]_a__^_Y]a]_^G_``BB
@HWI-EAS443:3:7:189:774#0/1
GGCATGGAATGAGGCGCTGCCTTCTTCAGTCTTTCAGC
+HWI-EAS443:3:7:189:774#0/1
abaaaa^aaabaaaaa]aa[aa_aa`a`W`a¥a]¥_^V
@HWI-EAS443:3:7:196:680#0/1
GGAAGATCCGAAAATCGAAACTAACAAGTTTGCTGCAATA
+HWI-EAS443:3:7:196:680#0/1
[[Y¥__a`_aY`bb_aa`_^aaa][`P_[Z^`_Xaaa]^]

@HWI-EAS443:3:7:252:1609#0/1
TTTCACTATAAGACAAGAAATGGCCAGTAGGAGTCTATGG
+HWI-EAS443:3:7:252:1609#0/1
abbbbaabbabbaabaaa_aaa_0a`a¥a`aaa_^__aa^
@HWI-EAS443:3:7:366:908#0/1
AGAACACAGTATTTTTCCCATTTGTGTGGCTCCAGTCTCG
+HWI-EAS443:3:7:366:908#0/1
___bab^a`Zaaaa]a`bbaaa^J_W``_]YXWVaaBB
@HWI-EAS443:3:7:397:424#0/1
CACATGCCTTATTGAATTCATTTTGGACCCAGCTTGCTAG
+HWI-EAS443:3:7:397:424#0/1
ab]_`a`_aa[aa^¥_a`V^aW^a`__Y`¥`aZ_aa^a`a
@HWI-EAS443:3:7:415:1599#0/1
CCACAACCTTGAGGGGTTTTCGGCTGAATCGAGAAAATTGC
+HWI-EAS443:3:7:415:1599#0/1
S_]b[KM`b^bbaaba`ab[b_ababa`Va_^^`SaW^^`
@HWI-EAS443:3:7:433:1964#0/1
CAATAATTGTAGAATCTGGTGACCCGAATGCACTATTGAA
+HWI-EAS443:3:7:433:1964#0/1
[`Xb^Va¥`ZJ_a]VT_b^]RTbaa`a]_^_^R__aJIaa
@HWI-EAS443:3:7:461:1286#0/1
GAGTGACATAAATACGGCCTTGCTCAATGCATCCTGTGC
+HWI-EAS443:3:7:461:1286#0/1
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@HWI-EAS443:3:7:521:1800#0/1
TTTCACCGAGTGCCCACTTCAATTGGCTTGTCTCTTCAT
+HWI-EAS443:3:7:521:1800#0/1
a]aabaa_[_a_Y`^`a`a^``[W_QV_TJF¥^]0]VFVV
@HWI-EAS443:3:7:52:526#0/1
GGCTTTTCACTATAAGACAAGAAATGGCCAGTAGGAGTCT
+HWI-EAS443:3:7:52:526#0/1
a`a_a]`^`_a___a_a__`[_^___]TR[FU__X^UR¥
@HWI-EAS443:3:7:61:167#0/1
ATCAGGCACTCCTCGATTGCTTCATATAGCCCCCAAGAT
+HWI-EAS443:3:7:61:167#0/1
`ab`a_]aa^baaa`Y¥aa¥[¥Z^^U`_¥`^^^ZRYZZ¥W
@HWI-EAS443:3:7:65:226#0/1
GGGGCATGGAATGAGGCGCTGCCTTCTTCAGTCTCTTCA
+HWI-EAS443:3:7:65:226#0/1
0__^_^_b_¥V]`ba`aa_aab_]`WT_a``¥VT]¥^VL^
@HWI-EAS443:3:7:70:584#0/1
GTGTACATAAATACGGCCTTGCTCAATGCATCCTGTGCAG
+HWI-EAS443:3:7:70:584#0/1
aVa_a`]`^a^a`_`^]_^¥UX]¥¥¥_`^TSUVNZSY^
@HWI-EAS443:3:7:713:736#0/1
GTCCAAAATGAATTCAATAAGGCATGTGAATTGACTGATT
+HWI-EAS443:3:7:713:736#0/1
aY_WT`aa``]Y]_R]V_R`_TVU`Sa^0[J_]`[_^¥X
@HWI-EAS443:3:7:754:1008#0/1
GCTTGCTAGAGATCTGGGCTCTGGCTCATCACTGTCATAC

+HWI-EAS443:3:7:754:1008#0/1
a_aaa_`_aaa[^`aaa`a^`_]_¥`_____^U_^_X
@HWI-EAS443:3:7:792:720#0/1
GGCCAGTAGGAGTCTATGGGATTCCTTCGTCAGTCCGAA
+HWI-EAS443:3:7:792:720#0/1
abbabaabba`a__aaabaa_aa__aaa]`¥¥`_`NW¥a__
@HWI-EAS443:3:7:869:1958#0/1
CGATAGGCCAAGTGTGCGAGGCCCATGTTCCCTATATGTGAG
+HWI-EAS443:3:7:869:1958#0/1
aaaab^babbbbaa[YZbbbaa_^b__^a¥[^`aaaZTKY¥B
@HWI-EAS443:3:80:1015:96#0/1
GTTCTCTTCATGTTCTTTGTCCTTGGGATCTTCTCTTCAT
+HWI-EAS443:3:80:1015:96#0/1
a¥a_a_aaaRb_`a_aaab¥`_aaa]¥Y`_`_]a¥a^Q[a
@HWI-EAS443:3:80:1016:1296#0/1
TTGGGGGGCTATATGAAGCAATCGAGGAGTGCCTGATTAA
+HWI-EAS443:3:80:1016:1296#0/1
_b^``abb_ba_`_`a`a`aaZ`_bXb[Q__bbaabZ]ba]
@HWI-EAS443:3:80:1079:1297#0/1
TAATCAGGCACTCCTCGATTGCTTCATATAGCCCCCAAG
+HWI-EAS443:3:80:1079:1297#0/1
aab`b`_aa`_`^`_a`___a`_```_a^`_]Z_¥_
@HWI-EAS443:3:80:1126:698#0/1
GGTGAATCAATAATTGTAGAATCTGGTGACCCGAATGCAC
+HWI-EAS443:3:80:1126:698#0/1
ab]a¥Y`¥]a^[^¥`XX`[___]L]^W^¥ZXS][[T^]RL
@HWI-EAS443:3:80:1170:1654#0/1
GAAGATCCCAAGGACAAAGAACATGAAGAGAACAAGCCAA
+HWI-EAS443:3:80:1170:1654#0/1
abbba`[[T]a_b[Vbbbbba`^aabaVSbba_H¥`]VZ__
@HWI-EAS443:3:80:1186:302#0/1
ATGAGAAAGGCATAAATCCCAATTACCTCATGGCTTGAA
+HWI-EAS443:3:80:1186:302#0/1
abaabaa_baaa`aab^RY^aa`_]`````_]aaZ[SS
@HWI-EAS443:3:80:1246:422#0/1
GGCATAAATCCCAATTACCTCATGGCTTGGAAGCAGGTGC
+HWI-EAS443:3:80:1246:422#0/1
abaababab^aaaabaa__a_aaa`]a_L^Ma[P¥T`SLV
@HWI-EAS443:3:80:1254:235#0/1
GTTTGTTCATGTATTCCGATTTCATTTCATCGACGAAC
+HWI-EAS443:3:80:1254:235#0/1
aaaaa_aa]aaa]_aa_aa^a`^^[^`aaY_^^a_Y___V
@HWI-EAS443:3:80:125:331#0/1
CACTTTCCCAATAGAGCCTTCCCTCCACTCCCCTGGGTGAC
+HWI-EAS443:3:80:125:331#0/1
a^a`Vaaabaa`_`_`^^¥^^^^^^¥Z`^]a¥[S[UVVU
@HWI-EAS443:3:80:1272:1087#0/1
CTTCTTTTGACATTTGGGAAAGCTTGCCCTCAATGCAGCC
+HWI-EAS443:3:80:1272:1087#0/1
aaZ¥```]bYY¥_b[`Taa`¥_Y¥ZZOZKaOW]b]L]NDD

@HWI-EAS443:3:80:1309:1950#0/1
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+HWI-EAS443:3:80:1309:1950#0/1
a`b_b_baabbba`bbbaabbbaaabaabbbabba`_aa
@HWI-EAS443:3:80:1316:1453#0/1
CCTTTCTCATGTGGTTTGACTATGTTAGGCTCTTTCCAGC
+HWI-EAS443:3:80:1316:1453#0/1
^_ba¥^babb`>`baab[¥`a`¥`aaaa_X_[[a`¥^aZF
@HWI-EAS443:3:80:1327:785#0/1
CTTCAATAGTGCATTTCGGGTCACCAGATTCTACAATTATT
+HWI-EAS443:3:80:1327:785#0/1
`bbbbbbb`]b`baa^`bb_bbaaaba^Z``aabaabb
@HWI-EAS443:3:80:1341:1630#0/1
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+HWI-EAS443:3:80:1341:1630#0/1
J^[b`_`aa^¥GXY^^a`Q]a_aa`ba`ST_[aSNY]RV]
@HWI-EAS443:3:80:1493:239#0/1
GCTGGAAAGAGCCTAACATAGTCAAACCACATGAGAAAGG
+HWI-EAS443:3:80:1493:239#0/1
aaa^_a¥aaa`^X`_a^_a`a_Z_¥_R`Z__a]a^Z^]
@HWI-EAS443:3:80:1506:955#0/1
GAGAAAGGCATAAATCCCAATTACCTCATGGCTTGAAGC
+HWI-EAS443:3:80:1506:955#0/1
aZ`_aaa`_aaba_a`_aabbba[TWZ[a__^b_WX][UB
@HWI-EAS443:3:80:1527:518#0/1
GGGGTTTTCGGCTGAATCGAGAAAATTGCTTCTCATTGTT
+HWI-EAS443:3:80:1527:518#0/1
aaV¥DUbXU_``[]^]T]a_]aTa`_aJ[_aX`_Z_aV[]
@HWI-EAS443:3:80:1543:1463#0/1
ATTCGATTTCCATTTTCATCGACGAACGGGGTGAATCAAT
+HWI-EAS443:3:80:1543:1463#0/1
abbbbb_aaaba`ba`_a_aabaa[UR_aaa]a`aaXZ]a
@HWI-EAS443:3:80:1672:1255#0/1
CGATTGGCCATGTTTCCGATTTGTTTTCAAAGAATTCCTT
+HWI-EAS443:3:80:1672:1255#0/1
¥`_a`ba_abb`bbabbbbaaabbabbbbbb]ab
@HWI-EAS443:3:80:190:106#0/1
AATGGTTCAATTTTGGCGTTCACTTCTTTTGACATTTGGG
+HWI-EAS443:3:80:190:106#0/1
a^``_V_`__`__`_X¥`Y¥[SX^ZT[___]TWWUY]XMX]
@HWI-EAS443:3:80:20:1760#0/1
GGGGCATGGAATGAGGCGCTGCCTTCTTCAGTCTCTTCA
+HWI-EAS443:3:80:20:1760#0/1
S]X[`ZXU]_]ZZY[```^]_a_YM[R[HLY]`^R[YL
@HWI-EAS443:3:80:295:217#0/1
ATCTACATAGGCTCTAAAGTTTTCAAGGCTGGAGAAGTTC
+HWI-EAS443:3:80:295:217#0/1
`ab^baaababa^a¥UUabS`^`¥[T[`Z^X_V¥RZWMUL
@HWI-EAS443:3:80:315:1018#0/1
TGGGGCATGGAATGAGGCGCTGCCTTCTTCAGTCTCTTC

+HWI-EAS443:3:80:315:1018#0/1
``a`aaW`¥`_`a_baaaabb`_`Z_]aaaa`_]`a_^`^`
@HWI-EAS443:3:80:362:397#0/1
AGGGGTTTTCGGCTGAATCGAGAAAATTGCTTCTCATTGT
+HWI-EAS443:3:80:362:397#0/1
ZabbbRUUSa_X_[`a^¥abb`_V`KZ[`V_` `aZYZ]¥_
@HWI-EAS443:3:80:379:657#0/1
ATCAGGCAATCTGAGGGGGCGTGGTGTCGCCTCAAGAAT
+HWI-EAS443:3:80:379:657#0/1
``aa[`_][[aa`V]Y[``_`__^a_UXU__T¥¥^`^`_`¥^`
@HWI-EAS443:3:80:386:747#0/1
CATTAATCAGGCACTCCTCGATTGCTTCATATAGCCCCC
+HWI-EAS443:3:80:386:747#0/1
¥_b_aa_]ba_]Z[]_`_¥U_Z_]aa^¥_]ZYSWa``
@HWI-EAS443:3:80:431:511#0/1
AGGCAATCTGAGGGGGCGTGGTGTCGCCTCAAGAATGGT
+HWI-EAS443:3:80:431:511#0/1
aa`¥]]]¥X]U^_Y]P_aH__W^T^TP_¥W[XN]a[[ZUU
@HWI-EAS443:3:80:43:946#0/1
CAAATGTAGGACCAAAGAAGGAAGACGGAAAACAAACCTG
+HWI-EAS443:3:80:43:946#0/1
aaYaaa]aa_aaaa`aa]]_`^]`^a¥^`____`__`__`^^]`
@HWI-EAS443:3:80:440:661#0/1
GCATCCTGTGCAGCCATGGATGACTTTTCAGCTGATCCCAA
+HWI-EAS443:3:80:440:661#0/1
a]UXba]0¥`]XZ¥¥`]Y_US]YZ_ZZV]__¥]SRX^T`[
@HWI-EAS443:3:80:486:1416#0/1
CATCGACGAACGGGTGAATCAATAATTGTAGAATCTGGT
+HWI-EAS443:3:80:486:1416#0/1
]Q]a_]_¥¥`^XY_]K¥_ZV_WV_X]XW`K`XXZT_WX[]
@HWI-EAS443:3:80:565:52#0/1
AGAAATTTAGGCTTCTCTACCCCTGTTGTGTTACATATAC
+HWI-EAS443:3:80:565:52#0/1
abaaaa`a`a`a`a¥a`a]_`^_[`X_`]^]_`ZX^__^^
@HWI-EAS443:3:80:577:1704#0/1
AATTTAGGCTTCTCTACCCCTGTTGTGTTACATATACTGT
+HWI-EAS443:3:80:577:1704#0/1
X[Ya_aaab_aa`a`a`Za^]a0_`I`]_]a`_XaU_[[
@HWI-EAS443:3:80:578:1040#0/1
TCCGAAAATCGAACTAACAAGTTTGTGCAATATGCACA
+HWI-EAS443:3:80:578:1040#0/1
aaaa_`bbaaa`_`_aa`aaaa`^`_`_`aaaa`aa_aa``
@HWI-EAS443:3:80:590:1492#0/1
GGGGGCTATATGAAGCAATCGAGGAGTGCCTGATTAATGA
+HWI-EAS443:3:80:590:1492#0/1
a_a``aaaabaa`a_bba`a_`_`a_aX_`_`aa_a`a`a_]`
@HWI-EAS443:3:80:768:1658#0/1
GGGGCATGGAATGAGGCGCTGCCTTCTTCAGTCTCTTCA
+HWI-EAS443:3:80:768:1658#0/1
aba_bbab`_babaa`_`a`baaaaa`_`_`_aZa_a_`_`^`

@HWI-EAS443:3:80:794:133#0/1
CATGTATTTCGATTTCCATTTTCATCGACGAACGGGGTGAA
+HWI-EAS443:3:80:794:133#0/1
a``bLZb__aaU_____`_`````_^[a^Y`VS¥]^U_X^^]
@HWI-EAS443:3:80:814:912#0/1
CCTTGGGATCTTCTTTCATTTTCAATGTCCTGTAGCTCT
+HWI-EAS443:3:80:814:912#0/1
K_a]`a_Naa`b^b]^`a`bbbaaaaa_`b_aaaa^aa``
@HWI-EAS443:3:80:843:206#0/1
AAATCCCAATTACCTCATGGCTTGAAGCAGGTGCTAGCA
+HWI-EAS443:3:80:843:206#0/1
aaZ_aa^Z]a``][aa`^]Y]a^`_[_ZVU¥BBBBBBBB
@HWI-EAS443:3:80:848:234#0/1
CTCCACAACCTTGAGGGGTTTTCGGCTGAATCGAGAAAATT
+HWI-EAS443:3:80:848:234#0/1
aaaabaaaababaaaaa^aaaaa_a`aa^Xa_a_a__`[
@HWI-EAS443:3:80:885:1309#0/1
ATTCGAGCCGAACGGCTGCATTGAGGGCAAGCTTCCCAA
+HWI-EAS443:3:80:885:1309#0/1
aaaaa`ba_a_`Z^`_a_aZYG[_^ZVZQRRZ_ZXWZZ
@HWI-EAS443:3:80:891:1213#0/1
AGCAGGTGCTAGCAGAGCTACAGGACATTGAAAATGAAGA
+HWI-EAS443:3:80:891:1213#0/1
a`_`aaVW_aa¥`_]`a`_`_`a^Z]¥a_``^`[W[]Z¥[]_
@HWI-EAS443:3:80:955:1819#0/1
CTCCCTTCATTATGTATTAGTAGCCCTGCAGTGGGACAC
+HWI-EAS443:3:80:955:1819#0/1
ab`babbaabba`abbaaa^ba_`_aa_aa_a`__aa]
@HWI-EAS443:3:81:1036:1499#0/1
CATATTTTACCGAGTGCCCACTTCAATTGGCTTGTCTC
+HWI-EAS443:3:81:1036:1499#0/1
abbXabaaababb`a^baaa_a`baa_a`aa`a`S[[MRO
@HWI-EAS443:3:81:1037:1151#0/1
CCTTGGGATCTTCTTTCATTTTCAATGTCCTGTAGCTCT
+HWI-EAS443:3:81:1037:1151#0/1
abaa¥¥^a_¥a_[]`bbb¥^`_a`aaaa`abbaa`^`ZaX
@HWI-EAS443:3:81:1049:987#0/1
GGTGAACCTTTGTAAGTATGGAGTTCTCACTCACTGACCCG
+HWI-EAS443:3:81:1049:987#0/1
_]Z`aZG^^]^T[¥¥N`aaaaaa`[X`_aaaa__[R`a
@HWI-EAS443:3:81:1060:1853#0/1
CAGTATTTTTCCATTTGTGTGGCTCCAGTCTCGGGTCAG
+HWI-EAS443:3:81:1060:1853#0/1
`b`^ab]abaaaaaaaaa]`¥F_```^^¥Y¥[YX^NV]T
@HWI-EAS443:3:81:1062:973#0/1
GGCTTGTCTCTTCATGTTCTTTGTCCTTGGGATCTTCTC
+HWI-EAS443:3:81:1062:973#0/1
aa_aaa_a_a^aa_aa^_``aaa^Z¥^`aaa`Z__aaWa^
@HWI-EAS443:3:81:107:1452#0/1
GGGCGATGGAAATGAGGCGCTGCCTTCTTCAGTCTCTCA

+HWI-EAS443:3:81:107:1452#0/1
`X`_`]]]_^]_[Q^`^`YXY^XU^^^`
@HWI-EAS443:3:81:1093:1202#0/1
CAGAAAAAGTAGACTTTGATGACTGCAAAGATGTTGGAGA
+HWI-EAS443:3:81:1093:1202#0/1
aabab_`aa_`aaaaabaaba`a`a`a`aaa`_a_a`a]
@HWI-EAS443:3:81:1116:40#0/1
CATTCTTTGGCTGGAAAGAGCCTAACATAGTCAAACCACA
+HWI-EAS443:3:81:1116:40#0/1
Z¥`Za`_bbaab__^a]`^XaW`]`a`U^aaZ]Y]^
@HWI-EAS443:3:81:1133:1303#0/1
AACCTGGAACCTTCGATCTTGGGGGGCTATATGAAGCAAT
+HWI-EAS443:3:81:1133:1303#0/1
__¥_Xa[^a[^baba`aab_`a]__a``aaaab^]YX]¥a
@HWI-EAS443:3:81:113:87#0/1
GTCCAGGCCATGATTCGGTCTCTTCCTTCAATTATCTCAA
+HWI-EAS443:3:81:113:87#0/1
a_ab^aaaa`aa`__¥[`W¥`YN^WV`]^^[^¥Y[Q]]ZZ
@HWI-EAS443:3:81:1162:525#0/1
ATTAATCAGGCACTCCTCGATTGCTTCATATAGCCCCCA
+HWI-EAS443:3:81:1162:525#0/1
[W`_`ba`aR[_aaaa_aa`_a_a[S`aaaa`^XT^a¥a
@HWI-EAS443:3:81:1216:1719#0/1
CGAAAATCGAAACTAACAAGTTTGCTGCAATATGCACACA
+HWI-EAS443:3:81:1216:1719#0/1
^aa¥bbaYbab_ZW`aY]a^T_`V_a^H]a_`ab__QRX]
@HWI-EAS443:3:81:127:1829#0/1
GGGGGCTATATGAAGCAATCGAGGAGTGCCTGATTAATGA
+HWI-EAS443:3:81:127:1829#0/1
^aaa```bbbbbbaa``aaa`_aa`_a_a`ba_`a
@HWI-EAS443:3:81:1302:425#0/1
ATTAATCAGGCACTCCTCGATTGCTTCATATAGCCCCCA
+HWI-EAS443:3:81:1302:425#0/1
abbbab_baa`b`b^_baaaaa`aa_aaaaaZ`V_V[a
@HWI-EAS443:3:81:1311:180#0/1
GGAAAGAGCCTAACATAGTCAAACCACATGAGAAAGGCAT
+HWI-EAS443:3:81:1311:180#0/1
a`¥a`^`^]a_aV_aaa^^`__ZX_W]__^____^_U^]
@HWI-EAS443:3:81:1406:1708#0/1
AGGATGCATTGAGCAAGCCGTATTTATGTACTCCCTT
+HWI-EAS443:3:81:1406:1708#0/1
aa`_a_a]ab`^aaY`b``^[a__```__X__R_0`^Q]__
@HWI-EAS443:3:81:1440:1889#0/1
CTGGGTCCAAAATGAATTCAATAAGGCATGTGAATTGACT
+HWI-EAS443:3:81:1440:1889#0/1
Ob_b_babbbbbb_bbbbbbabbbaabbbb`bababa`a
@HWI-EAS443:3:81:1503:1428#0/1
GCAAGCTGGGTCCAAAATGAATTCAATAAGGCATGTGAAT
+HWI-EAS443:3:81:1503:1428#0/1
a__``aaa_a]][_]__aa__a_]^_^`_`QW_`aZ_]^^

@HWI-EAS443:3:81:151:694#0/1
CAGTCATCAAAGTCTACTTTTTCTGGTGCCATATTTTCAC
+HWI-EAS443:3:81:151:694#0/1
aaa]`V`_a`^PZ`aaX¥`]¥`[RXa_ZJV^]__aa
@HWI-EAS443:3:81:1578:450#0/1
ATCGAAACTAACAAGTTTGCTGCAATATGCACACATTTGG
+HWI-EAS443:3:81:1578:450#0/1
a]V¥^``ab_ba`W^]baabaa¥`Ta`[aUa^a_aaaSR`
@HWI-EAS443:3:81:1629:412#0/1
AGAACTTGATGAAATAGGAGAAGATGTTGCCCGATTGAA
+HWI-EAS443:3:81:1629:412#0/1
[aabX`ab`aba^¥b]^`a`a`b`aa_a_X¥_X__`a_¥a
@HWI-EAS443:3:81:1668:1455#0/1
ATTCGGATTTCCATTTTCATCGACGAACGGGGTGAATCAAT
+HWI-EAS443:3:81:1668:1455#0/1
`abbbb]V_ab]S_Zaa``aY_^X`Z`aa^Xa_a_Y^]_
@HWI-EAS443:3:81:1673:384#0/1
AGCAATTTTCTCGATTGAGCCGAAAACCCCTCAAGTTGTG
+HWI-EAS443:3:81:1673:384#0/1
aVL`_aaba¥[¥a`a^a^W_a`^^_XSJV_^^[aS__[_
@HWI-EAS443:3:81:170:513#0/1
ACCGATTTGAGATAATTGAAGGAAGAGACCGAATCATGGC
+HWI-EAS443:3:81:170:513#0/1
aa`]a`ab^a^`aaa]aa_aa_a^`aa_Y^_¥^`_`
@HWI-EAS443:3:81:1711:774#0/1
GACATTTCTTGCTGGAAAGAGCCTAACATAGTCAAACCA
+HWI-EAS443:3:81:1711:774#0/1
a]WX[ZO`VN`HOX[P]X`P]TOXT¥_Y]aYLSKYPRGRU
@HWI-EAS443:3:81:1726:767#0/1
ATTCAGTAGCCCTGCAGTGGGACACTTCTGCTGTAAAATA
+HWI-EAS443:3:81:1726:767#0/1
^W]TXa^^QL[a^V`^[XFX[]W][`^`aM`___^`¥_`^
@HWI-EAS443:3:81:199:946#0/1
GGCATAAATCCCAATTACCTCATGGCTTGGAAAGCAGGTGC
+HWI-EAS443:3:81:199:946#0/1
abbabbU[babbbbabbbbab_ababbbM]_`YZP_aN__
@HWI-EAS443:3:81:303:669#0/1
AGCTTTCCCAAATGTCAAAGAAGTGAACGCCAAAATTGA
+HWI-EAS443:3:81:303:669#0/1
abaaaab`a^UY_aZba[_a`Z``V]aaaaa^]YPY[Z][
@HWI-EAS443:3:81:315:1237#0/1
TGGAGACCTTAAACAGTATGACAGTATGAGCCAGAGCCC
+HWI-EAS443:3:81:315:1237#0/1
aaaaa¥¥baabaaaaa[]a^aaa`[___[^¥¥__QRU__`^
@HWI-EAS443:3:81:415:750#0/1
ACCGAACTTCTCCAGCCTTGAACCTTTAGAGCCTATGTA
+HWI-EAS443:3:81:415:750#0/1
`ba]aaZab``aa`_`ba_aX]`WZ_aaaaaT]_a`aa][
@HWI-EAS443:3:81:426:1326#0/1
GGCTTGTCTCTTCATGTTCTTTGTCCTTGGGATCTTCTC

+HWI-EAS443:3:81:426:1326#0/1
a_aaaa]ababbbaabaabaabaaaa`^Y]¥Y`^aaaa_
@HWI-EAS443:3:81:462:1059#0/1
GAGGGGTTTTTCGGCTGAATCGAGAAAATTGCTTCTCATTG
+HWI-EAS443:3:81:462:1059#0/1
]QYa`ba_b`]_]`abaaaa]`Wa_R`¥_adW]_ba]]V
@HWI-EAS443:3:81:470:1742#0/1
TGGGACACTTCTGCTGTAAAATAGTTCCTCCTCATGCTTG
+HWI-EAS443:3:81:470:1742#0/1
`^`_abbbaabbaaaa_bbbaa`]¥a`a`aaabaa`^^^^`
@HWI-EAS443:3:81:477:1448#0/1
GACCCGAATGCACTATTGAAGCACCGATTTGAGATAATTG
+HWI-EAS443:3:81:477:1448#0/1
¥`aa`aa_[``_`aaaa`_abb`^aaa`_`^]]]_¥a`
@HWI-EAS443:3:81:641:411#0/1
ATGTCAAAGAAGTGAACGCCAAAATTGAACCATTCTTGA
+HWI-EAS443:3:81:641:411#0/1
`^aZY^_bbaaa`[_`bbaaaaaaaaa`a`^`^`^`aaa`¥a_
@HWI-EAS443:3:81:710:1652#0/1
CATTAATCAGGCACTCCTCGATTGCTTCATATAGCCCCC
+HWI-EAS443:3:81:710:1652#0/1
bZ``_VZ_aY[a[[abaa`Qa^a`aaa^a_a]]R]]b[
@HWI-EAS443:3:81:718:554#0/1
ATGAGAAAGGCATAAATCCCAATTACCTCATGGCTTGGAA
+HWI-EAS443:3:81:718:554#0/1
^_a```^W¥¥__ababbbaa^]Zabbab_aaaaa_a``a`_
@HWI-EAS443:3:81:727:770#0/1
ATCACTGTCATACTGTTAAGGTCTCCAACATCTTTGCAG
+HWI-EAS443:3:81:727:770#0/1
X`]LTZ_`b^]aa`b[aaa`ba_a_`[_`a`V`aY_Yb^]a
@HWI-EAS443:3:81:779:53#0/1
CACCCCGTTCGTCGATGAAATGGAAATCCGAATACATGAA
+HWI-EAS443:3:81:779:53#0/1
a_a]aba¥a`_`_a^T^_`ZX`V¥`_`]__Z^_[]]]__T
@HWI-EAS443:3:81:841:385#0/1
CACAACTTGAGGGGTTTTTCGGCTGAATCGAGAAAATTGCT
+HWI-EAS443:3:81:841:385#0/1
`b¥aa]ab`__bbbWa`aaabaabaa`aaa_aaaaaaXa
@HWI-EAS443:3:81:844:744#0/1
TGGAGACCTTAAACAGTATGACAGTGATGAGCCAGAGCCC
+HWI-EAS443:3:81:844:744#0/1
a`aaaaabb_a[_`ab`abaaaa^a`_]aa^a`^`a^^_
@HWI-EAS443:3:81:856:1532#0/1
ATCGACGAACGGGGTGAATCAATAATTGTAGAATCTGGTG
+HWI-EAS443:3:81:856:1532#0/1
a_ab``a`a_[_`Vaa_`__`^^`]`Wa````_]^^X¥
@HWI-EAS443:3:81:884:1595#0/1
GAACCGTTCATTGAAATTGGAGTAACACGGAGGGAAGTC
+HWI-EAS443:3:81:884:1595#0/1
_`aa]]`]]]Zb]b_aabaa`Z^`bba`_aa`baaaa_^W

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+HWI-EAS443:3:81:915:1754#0/1
¥^[]¥UVUb`bbb`^VY_a^_[V[`aY_]YaTaN¥¥^
@HWI-EAS443:3:81:933:84#0/1
CGTCTCCACAACCTTGAGGGGTTTTCGGCTGAATCGAGAAA
+HWI-EAS443:3:81:933:84#0/1
abbbb`a`aaa^bbaabbbb_bbaaaaaaaaa`_a_a`__
@HWI-EAS443:3:82:1055:1491#0/1
GGGATCTTCTTTCATTTTCAATGTCCTGTAGCTCTGCTA
+HWI-EAS443:3:82:1055:1491#0/1
UbbZWUba`bb^R¥bba` ``a`Y^__abVbaa_Va]`aa
@HWI-EAS443:3:82:1100:1377#0/1
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+HWI-EAS443:3:82:1100:1377#0/1
abbb`Waa_[a¥XXXMU¥[Y[]]RJB B B B B B B B B B B B B
@HWI-EAS443:3:82:1102:721#0/1
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+HWI-EAS443:3:82:1102:721#0/1
`babbabbbbaabababbbb`aaabbbbbaabbbb`aa
@HWI-EAS443:3:82:1119:1073#0/1
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+HWI-EAS443:3:82:1119:1073#0/1
W[aZa`b`]¥`a`a` ``ZZ]aa`]]aaaa`a`¥Z]aa
@HWI-EAS443:3:82:1119:1630#0/1
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+HWI-EAS443:3:82:1119:1630#0/1
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@HWI-EAS443:3:82:1175:1744#0/1
GGCCAGTAGGAGTCTATGGGATTCCTTTCGTCAGTCCGAA
+HWI-EAS443:3:82:1175:1744#0/1
S_^W¥ZL[a]QW^ab^abba_`P` `baVNaI_WJU]RZYa
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GAAAACCTTAGAGCCTATGTAGATGGATTTCGAGCCGAACG
+HWI-EAS443:3:82:1210:803#0/1
a`ZX`¥baaaa^a` `a^ab_[a`aaa` `X^aa¥N^¥^[[
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+HWI-EAS443:3:82:122:722#0/1
aabaabbb_abaabababbab[aaabaaa`YaaaaWa`a
@HWI-EAS443:3:82:1249:1577#0/1
CATGGAATGAGGCGCTGCCTTCTCAGTCTCTTCAGCAG
+HWI-EAS443:3:82:1249:1577#0/1
aa`Yaab`aba`__aaa`JZ`aS_a^^]V¥aaa`]a¥a`^
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ATTGAAGCACCGATTTGAGATAATTGAAGGAAGAGACCGA
+HWI-EAS443:3:82:1251:1136#0/1
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+HWI-EAS443:3:82:1259:203#0/1
aa_aa]a`]a^`¥]_a]a`__a__^_ZX_]`^]a`Z^]a`
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GCTGCACAGGATGCATTGAGCAAGGCCGTATTTATGTACA
+HWI-EAS443:3:82:1385:1109#0/1
]aa_^_aa^)`_]Y__`[_¥R_a`_^VV^`aaYXYVYT]
@HWI-EAS443:3:82:1454:169#0/1
CACTTGGCCTATCGCAGTCCTCAAGAGCATGTCTCCTATT
+HWI-EAS443:3:82:1454:169#0/1
ab¥`````bbbba`_`Vb`babab`b¥[`abbba¥^b_ba
@HWI-EAS443:3:82:1463:226#0/1
GGGGGCTATATGAAGCAATCGAGGAGTGCCTGATTAATGA
+HWI-EAS443:3:82:1463:226#0/1
^_¥Y_]ab`S`¥`Ub_S[[G¥YV[XUTUa`Q¥U¥UXa_
@HWI-EAS443:3:82:1525:1172#0/1
CACACATTCACATCTTTTCATTCCTGGAGAGGAGATGGC
+HWI-EAS443:3:82:1525:1172#0/1
XYK_PY]bbbb`a[abaabb_]bb_aaa_a__bba[b_U
@HWI-EAS443:3:82:1732:1933#0/1
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+HWI-EAS443:3:82:1732:1933#0/1
¥b`_`aabb`_a_b`baaa_K¥bXa`_¥[X_¥aa_RYWE
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@HWI-EAS443:3:82:283:1074#0/1
TCATCGACGAACGGGTGAATCAATAATTGTAGAATCTGG
+HWI-EAS443:3:82:283:1074#0/1
aaaaba`aa_¥aaa_a]aaaaa`aa`aaa_aa_````_a`
@HWI-EAS443:3:82:295:1034#0/1
ACGGGGTGAATCAATAATTGTAGAATCTGGTGACCCGAAT
+HWI-EAS443:3:82:295:1034#0/1
`aZ_ab`XX`ba^Z¥^[`aba`ababb_aWa`aa`a`a`
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GAAGGGAGTGTACATAAATACGGCCTTGCTCAATGCATCC
+HWI-EAS443:3:82:334:179#0/1
_`a_ab`a`¥`aa`aa_ab^]]_`[¥`_`a`[UX¥_[JY
@HWI-EAS443:3:82:352:1861#0/1
ACTTTCCCAATAGAGCCTTCCTCCACTCCCCTGGGTGACT
+HWI-EAS443:3:82:352:1861#0/1
abaa_a`aba_aZaXaa_¥^a¥_a`^a`aX¥]UWZY[W
@HWI-EAS443:3:82:354:1704#0/1
GGGGCATGGAAATGAGGCGCTGCCTTCTTCAGTCTCTTCA
+HWI-EAS443:3:82:354:1704#0/1
`baabbaabbbabb`_abbaabaa_baaaa`_a`baaa`
@HWI-EAS443:3:82:411:1677#0/1
CATATAGCCCCCAAGATCGAAGGTTCCAGGTTCCAGGTT
+HWI-EAS443:3:82:411:1677#0/1
`babababbbbaaa_`a`a`aa_HV^¥`X^^T_¥^aV[U_

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+HWI-EAS443:3:82:411:1940#0/1
a`¥U^a¥Va]X`a`b_]Z`aaaaX`T¥]^_`^aa`_aZaa
@HWI-EAS443:3:82:419:701#0/1
GACATTCTTTGGCTGGAAAGAGCCTAACATAGTCAAACCA
+HWI-EAS443:3:82:419:701#0/1
abb¥`aba_a_aaaa_VYYV^Yaa]Y`][`X`[_`X``Y_
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+HWI-EAS443:3:82:471:958#0/1
[U¥¥Ubb_Zab^UaaaQ_¥_]aSY^_aaaabaaRW^]a[^
@HWI-EAS443:3:82:523:138#0/1
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+HWI-EAS443:3:82:523:138#0/1
`Waa^aaaaaZ]^]^a¥a^]XSVSU[XYUXNY`]TXUSST
@HWI-EAS443:3:82:588:555#0/1
GGGGCTATATGAAGCAATCGAGGAGTGCCTGATTAATGAT
+HWI-EAS443:3:82:588:555#0/1
aa____`^_aabaaaaaaa_a`aa_a^`][`a`a`^^`_
@HWI-EAS443:3:82:657:1803#0/1
TGGGGCATGGAAATGAGGCGCTGCCTTCTCAGTCTCTTC
+HWI-EAS443:3:82:657:1803#0/1
```¥\_bba`aaaabab`\_\_baaaaaaaaaa\_`]^aaa``  
@HWI-EAS443:3:82:666:1559#0/1  
TTCGGCTGAATCGAGAAAATTGCTTCTCATTGTTCCAGGCA  
+HWI-EAS443:3:82:666:1559#0/1  
a`a`Tb¥W^\_`^V]YEEYa¥TYUY\_\_aaa\_a\_\_b`\_`\_a[Ia`  
@HWI-EAS443:3:82:673:1862#0/1  
GTCTCCAACATCTTTGCAGTCATCAAAGTCTACTTTTTCT  
+HWI-EAS443:3:82:673:1862#0/1  
aYaW`ba`aab]`\_[a[Z\_aa\_baZ`\_Ya\_a¥\_\_\_\_`¥^¥  
@HWI-EAS443:3:82:67:1651#0/1  
TAATCAGGCACTCCTCGATTGCTTCATATAGCCCCCAAG  
+HWI-EAS443:3:82:67:1651#0/1  
`[aaa\_H\_`aaSaa`aR0[^T^\_\_`a]a\_aZaaY\_``XZZ  
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+HWI-EAS443:3:82:685:840#0/1  
aababaaabaa`X^aa\_a\_babab\_aaaaaaaa\_aaa`aa  
@HWI-EAS443:3:82:823:41#0/1  
AGCCCCCAAGATCGAAGGTTCCAGGTTCCAGGTTGTC  
+HWI-EAS443:3:82:823:41#0/1  
abaaaaaaaaaba`ab\_\_`aV\_`Y\_`a\_\_ZYQaaW`aVU¥W  
@HWI-EAS443:3:82:855:190#0/1  
CAAGAAATGGCCAGTAGGAGTCTATGGGATTCCTTTTCGTC  
+HWI-EAS443:3:82:855:190#0/1  
ab\_X\_Z\_bb`]RabZ`aab`H\_]`^\_Y`aa^VG^``\_\_]R  
@HWI-EAS443:3:82:883:1159#0/1  
TTTGATTCTTGCCCTGCTCTCTTCGTCAGGGTGTAGTCC

+HWI-EAS443:3:82:883:1159#0/1  
aa`baaaa`a^^a`a\_`a```aaa`Z\_a`a`\_Wa¥`a¥\_\_  
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GCCACCAAAGCGGACTACACCCTTGACGAAGAGAGCAGGG  
+HWI-EAS443:3:82:902:1444#0/1  
aba^`bbaabbbabaaa^baab`abaaaWZ\_aaaaaa\_[]`  
@HWI-EAS443:3:82:91:465#0/1  
AATGCATCCTGTGCAGCCATGGATGACTTTTCAGCTGATCC  
+HWI-EAS443:3:82:91:465#0/1  
`ab```a]¥Z\_[]`[a]baa`\_XV^I\_`^]a^]`[a[GS^  
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+HWI-EAS443:3:82:945:1509#0/1  
aaaVa\_a\_\_`¥V`b^aa[aaa]a``Rab¥bba`\_aaaYba  
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+HWI-EAS443:3:83:1025:846#0/1  
]abbaa¥ba\_¥TM]\_`Z¥\_XM]\_¥\_Z^\_V\_]\_^\_]\_[]b¥R¥  
@HWI-EAS443:3:83:1089:818#0/1  
TTCATTTTGGACCCAGCTTGCTAGAGATCTGGGCTCTGGC  
+HWI-EAS443:3:83:1089:818#0/1  
aa`][aaaa`a```^`\_V\_`^UVVFYYSJUZVS[XLXLXQ^[]  
@HWI-EAS443:3:83:1118:1689#0/1  
CGATTGCTTCATATAGCCCCCAAGATCGAAGGTTCCAGG  
+HWI-EAS443:3:83:1118:1689#0/1  
aaaaa`aaaaabaa`aa\_]`aa`aa\_`a````]H\_UXX]]  
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GGCATGGAAATGAGGCGCTGCCTTCTTCAGTCTCTTCAGC  
+HWI-EAS443:3:83:1138:359#0/1  
```WHI\_`P``T\_aa]S`UP`[^\_ZL¥XX`^IDQMYRPU`R  
@HWI-EAS443:3:83:113:1387#0/1
GGGCATGGAAATGAGGCGCTGCCTTCTTCAGTCTCTTCAG
+HWI-EAS443:3:83:113:1387#0/1
```bb\_baa\_Taaba\_aa``aaa\_`aa\_\_ZU]RY]^\_`^\_Z  
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+HWI-EAS443:3:83:1154:830#0/1  
abb`a\_`aaaa]YGYUa^¥^Z`Z^`^]`^SY^`\_`^a\_`^\_ZZ  
@HWI-EAS443:3:83:1163:1173#0/1  
GGCATGGAAATGAGGCGCTGCCTTCTTCAGTCTCTTCAGC  
+HWI-EAS443:3:83:1163:1173#0/1  
aaaa]`\_\_aaaaa\_a\_aaSVX\_]`^`\_`\_]NOXM`WTP]T  
@HWI-EAS443:3:83:1186:973#0/1  
ATGCATCCTGTGCAGCCATGGATGACTTTTCAGCTGATCCC  
+HWI-EAS443:3:83:1186:973#0/1  
aa`abbaaaba\_abba`babaaaa`abaa\_a````a\_`\_Y^  
@HWI-EAS443:3:83:1312:745#0/1  
GCAGGGCAAGAATCAAAACTAGGCTTTTCACTATAAGACA  
+HWI-EAS443:3:83:1312:745#0/1  
```bbaabbbabaaaabaab`aaa````\_\_aa]aa`aaaaa\_a

@HWI-EAS443:3:83:1364:288#0/1
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+HWI-EAS443:3:83:1364:288#0/1
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@HWI-EAS443:3:83:1436:860#0/1
CGAAAATCGAACTAACAAGTTTGTGCAATATGCACACA
+HWI-EAS443:3:83:1436:860#0/1
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@HWI-EAS443:3:83:1462:166#0/1
CTTGGGGGGCTATATGAAGCAATCGAGGAGTGCCTGATTA
+HWI-EAS443:3:83:1462:166#0/1
aba¥¥baS`baa`aa_aa`a`_QaYaa_a[a¥S`^¥`_`
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+HWI-EAS443:3:83:1466:800#0/1
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+HWI-EAS443:3:83:1483:123#0/1
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@HWI-EAS443:3:83:1500:1263#0/1
GCAGTGGGACACTTCTGCTGTAAAATAGTTCCTCCTCATG
+HWI-EAS443:3:83:1500:1263#0/1
a`bb_abaaba`a`baaaa^a`baaa^^aX]a]¥YP`_`_
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+HWI-EAS443:3:83:1622:677#0/1
[b_a^[¥b[^babab`bYUZaaaaR^Z^^a`F¥QPRWR]
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+HWI-EAS443:3:83:1662:1154#0/1
aaX]_aa[a^bbbJabIa]_Saa]^Ta`_a[Gb`_^U_ZW
@HWI-EAS443:3:83:1703:1441#0/1
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+HWI-EAS443:3:83:1703:1441#0/1
aaaaaaaa_aaaaaaaaa_VVaab^`a`¥`_aa`^`a]_aa`
@HWI-EAS443:3:83:1730:1344#0/1
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+HWI-EAS443:3:83:1730:1344#0/1
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@HWI-EAS443:3:83:1767:1791#0/1
ATACTTAATTTAGAGCATCCATCAGCAGGAACTTTGACC
+HWI-EAS443:3:83:1767:1791#0/1
V]_Y¥^a`_b_X`_aaX^YH_¥`QZOM¥`V¥U¥XZW]WKN
@HWI-EAS443:3:83:1771:578#0/1
GAATTCATTTTGGACCCAGCTTGCTAGAGATCTGGGCTCT
+HWI-EAS443:3:83:1771:578#0/1
aaaaaa`bbaaaaa`a`_`¥^aW[^_Z____]]^]¥YV]^R
@HWI-EAS443:3:83:209:1658#0/1
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+HWI-EAS443:3:83:209:1658#0/1
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@HWI-EAS443:3:83:236:1458#0/1
TGCCTTTCTCATGTGGTTTGGACTATGTTAGGCTCTTTCCA
+HWI-EAS443:3:83:236:1458#0/1
0_bbbba`a_U`XZ_ZIY_baba]ab`ZZ__^_Z`aaaa¥
@HWI-EAS443:3:83:244:198#0/1
GGACAAAGAACATGAAGAGAACAAGCCAATTGAAGTGGGC
+HWI-EAS443:3:83:244:198#0/1
aaa`aaaa`a``a`aa`_`^`__[Z_]^[_]_]_U_^ZZ
@HWI-EAS443:3:83:248:469#0/1
AGCAAACCTGTTAGTTTCGATTTTCGGATCTTCCCATAT
+HWI-EAS443:3:83:248:469#0/1
a]ba__aa`a`_`__^`aaZ]^__^]ZGZX]XWZ_SRVV_
@HWI-EAS443:3:83:266:15#0/1
CAGGCACTCCTCGATTGCTTCATATAGCCCCCAAGATCG
+HWI-EAS443:3:83:266:15#0/1
^^]_a`a`_W__a_Z]]¥[¥_[YVY¥Z^UV_]SV^
@HWI-EAS443:3:83:382:1869#0/1
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+HWI-EAS443:3:83:382:1869#0/1
`^`^`_`a]PQ_ZOUHMTLQRRW¥LHNOWTL¥^[[GOJ
@HWI-EAS443:3:83:431:178#0/1
CTGGAGAGGAGATGGCCACCAAAGCGGACTACACCCTTGA
+HWI-EAS443:3:83:431:178#0/1
abab_babb]baabb`a`aaaa`a`Y_a`^S]¥^`^`
@HWI-EAS443:3:83:450:1160#0/1
GGTGAACCTTTGTAAGTATGGAGTTCTCACTCACTGACCCG
+HWI-EAS443:3:83:450:1160#0/1
TXT`babbbbb]¥V`_abba_aabab]bbabbbba]`aab
@HWI-EAS443:3:83:532:1196#0/1
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+HWI-EAS443:3:83:532:1196#0/1
Z__W`bbbbbaX^b`a`aaababaabaabba`baaaa`
@HWI-EAS443:3:83:537:1569#0/1
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+HWI-EAS443:3:83:537:1569#0/1
abbbbbb`^bbb^ab]bbbbbabbabbbbababa_`a`^
@HWI-EAS443:3:83:564:823#0/1
AGCAATTTTCTCGATTGAGCCGAAAACCCCTCAAGTTGTG
+HWI-EAS443:3:83:564:823#0/1
¥¥V`^XS]]a^`bZUa¥^YYZ]^0[Y]aa[¥ZLGWU`aZ]
@HWI-EAS443:3:83:577:342#0/1
AGCCAGAGCCCAGATCTCTAGCAAGCTGGGTCCAAAATGA
+HWI-EAS443:3:83:577:342#0/1
^`^`aaa`baaa`baaaaaaaaa`¥`a`a`^Y_`^J]_`_`
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AGGGGTTTTCGGCTGAATCGAGAAAATTGCTTCTCATTGT
+HWI-EAS443:3:83:66:1118#0/1
^a`_aZ^_R^X`_`¥`aa`Z`a`[_¥_Z¥¥`a`_``[

@HWI-EAS443:3:83:682:1166#0/1
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+HWI-EAS443:3:83:682:1166#0/1
a`ba`aaa`ab^^`aaa]_aaaa`a``___aa`aa^__
@HWI-EAS443:3:83:759:122#0/1
CAATAATTGTAGAATCTGGTGACCCGAATGCACTATTGAA
+HWI-EAS443:3:83:759:122#0/1
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@HWI-EAS443:3:83:817:1649#0/1
GCAGGTGCTAGCAGAGCTACAGGACATTGAAAATGAAGAG
+HWI-EAS443:3:83:817:1649#0/1
`aYa[¥]a¥_]_^Z¥`aNU]`aY_aa_____a]`ZQVa[^]
@HWI-EAS443:3:83:837:72#0/1
GATGTGGTGAACCTTTGTAAGTATGGAGTTCTCACTCACTG
+HWI-EAS443:3:83:837:72#0/1
a]¥TZb]R^]H¥¥aaa`ZZ]T_`_]_a^[Y_X]W_V]^__
@HWI-EAS443:3:83:87:693#0/1
GGCCAGTAGGAGTCTATGGGATTCCTTTTCGTCAGTCCGAA
+HWI-EAS443:3:83:87:693#0/1
^_bb_b]^a_J`^a```Zaa`a^^_aa`XZWaW^`a`
@HWI-EAS443:3:83:953:1153#0/1
GAGGGGTTTTTCGGCTGAATCGAGAAAATTGCTTCTCATTG
+HWI-EAS443:3:83:953:1153#0/1
aa`aaaYaaaa`__aab`^_a_U```aa_¥]`_V]V____`
@HWI-EAS443:3:83:959:67#0/1
CTTGGTCATGTCTTTCTCTTTGACAGAAGACTCGGCCTCA
+HWI-EAS443:3:83:959:67#0/1
[^_aaab_bbbabbbbbYb¥S`b_ab_[babbR¥`]V
@HWI-EAS443:3:83:963:1072#0/1
GCGAAGAGACAATTGAAGAAAAATTTGAGATTACAGGAAC
+HWI-EAS443:3:83:963:1072#0/1
aa_G^_abaaa`aa`a][^W¥]T¥aaa_a`]`a_a_`^aW
@HWI-EAS443:3:83:963:1312#0/1
AAGAATTCCTTGGTCATGTCTTTCTCTTTGACAGAAGACT
+HWI-EAS443:3:83:963:1312#0/1
YY_SW`_]R]_^RMX¥TXYY[^Z_wwwYY]SY^[a¥U`UW
@HWI-EAS443:3:83:965:1688#0/1
GGAGTCTATGGGATTCCTTTTCGTCAGTCCGAAAGAGGCGA
+HWI-EAS443:3:83:965:1688#0/1
ab`abbbbaabbbbaaabaabaabbaabaaaaa`
@HWI-EAS443:3:84:1031:186#0/1
GTCCTTGGGATCTTCTTTCATTTTCAATGCCTGTAGCT
+HWI-EAS443:3:84:1031:186#0/1
aY[_`aaa][_]a]UY[_[¥^a^[a__^_`]XV]_]_]U
@HWI-EAS443:3:84:1144:2040#0/1
GGGCACTCGGTGAAAATATGGCACCAGAAAAAGTAGACTT
+HWI-EAS443:3:84:1144:2040#0/1
Wbb__ab_b_V]U`aVa[¥H¥aL`aI_aa]UNa`a]`
@HWI-EAS443:3:84:1174:398#0/1
ATTTGTTTTCAAAGAATTCCTTGGTCATGTCTTTCTCTT

+HWI-EAS443:3:84:1174:398#0/1
abb_baabba]^_aa`aaaaaaZ]^`aab_aaa`ab`aaa
@HWI-EAS443:3:84:1193:537#0/1
GATCCGAAAATCGAAACTAACAAAGTTTGCTGCAATATGCA
+HWI-EAS443:3:84:1193:537#0/1
a_]`^`_b`aa^`_`][[`WZ____]^`_¥a_a`_]
@HWI-EAS443:3:84:1206:1686#0/1
ATGAGAAAGGCATAAATCCCAATTACCTCATGGCTTGAA
+HWI-EAS443:3:84:1206:1686#0/1
aZ[aa`aa____a`__`a_VU_____]0^V_V]^X_YVYZ
@HWI-EAS443:3:84:1211:361#0/1
TTGCGATATGTTCAATCGGGCAACATCTTCTCCTATTTC
+HWI-EAS443:3:84:1211:361#0/1
`b`bbaabb`aaaa`aa`a`]^`a_a`[a`_aaaa_
@HWI-EAS443:3:84:124:1324#0/1
GGTGGCCATCTCCTCTCCAGTGAATGAAAAGATGTGAATG
+HWI-EAS443:3:84:124:1324#0/1
aa^`_aaa`a_aa_aWa`_dWZ`^^_^[_`^^^_W^]VY_
@HWI-EAS443:3:84:1284:886#0/1
CACTGCAGGGCTACTGAATACATAATGAAGGGAGTGACA
+HWI-EAS443:3:84:1284:886#0/1
ababbbbbbaabbabbaaab`bbaabaabaaaaa`a]a
@HWI-EAS443:3:84:1331:971#0/1
GAGACCGAATCATGGCCTGGACAGTGGTGAACAGTATATG
+HWI-EAS443:3:84:1331:971#0/1
aaba`_UTG[XTH¥bZP_QXPW`¥TU¥P[RQVF]YX`V`
@HWI-EAS443:3:84:1353:1555#0/1
GTTCACCACTGTCCAGGCCATGATTCGGTCTCTTCCTTCA
+HWI-EAS443:3:84:1353:1555#0/1
a_a]ZU[^`aa¥X`Ta¥XX_a__a_[`X__W`_]V``[_
@HWI-EAS443:3:84:1376:1428#0/1
CATTAACTCAGGCACTCCTCGATTGCTTCATATAGCCCCC
+HWI-EAS443:3:84:1376:1428#0/1
Y`Ybb_babaW_a]b]abNab]bb_a_aKbabbV[[aa¥¥
@HWI-EAS443:3:84:1417:116#0/1
AAACTTTAGAGCCTATGTAGATGGATTCGAGCCGAACGGC
+HWI-EAS443:3:84:1417:116#0/1
aa`Zbbaaa¥`_Ya`ab^_a]ab`^aaW`_`¥¥`Y^U^U
@HWI-EAS443:3:84:141:423#0/1
GAAAACCTTTAGAGCCTATGTAGATGGATTCGAGCCGAACG
+HWI-EAS443:3:84:141:423#0/1
^XS^S^]^`a[]Zababaa`X]b¥H_b]a`a`V]^UX]^`^
@HWI-EAS443:3:84:1528:677#0/1
CCTCCGTGTTACTCCAATTTCAATGAACCGTTCTCTTTG
+HWI-EAS443:3:84:1528:677#0/1
aab`bbabbbbb`aa`_`abbbb`baba[bb^a_babaaa
@HWI-EAS443:3:84:1540:1135#0/1
GTAATCTCAAATTTTTCTTCAATTGTCTCTTCGCTCTTT
+HWI-EAS443:3:84:1540:1135#0/1
^Y_aaaaaaaaaaaaaaaa`abaaa_a`a_a`__a]a``

@HWI-EAS443:3:84:1641:2015#0/1
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+HWI-EAS443:3:84:1641:2015#0/1
V[QYQ[^`]IaX__Q][]VV`aa_aaa_``a¥]WZW___Y
@HWI-EAS443:3:84:167:1594#0/1
CAAAGAATTCCTTGGTCATGTCTTTCTCTTTGACAGAAGA
+HWI-EAS443:3:84:167:1594#0/1
a^[a`]__^^aaZ[VF^[`a[a_a^`_]`^__[_`_`_]`^
@HWI-EAS443:3:84:1703:1245#0/1
CACTTCTGCTGTAAAATAGTTCCTCCTCATGCTTGCGATA
+HWI-EAS443:3:84:1703:1245#0/1
ababbabbbbaabaaab^b`ba`baaaaaab]aaa`aaaa
@HWI-EAS443:3:84:1739:1324#0/1
CCGAAAATCGAAACTAACAAGTTTGCTGCAATATGCACAC
+HWI-EAS443:3:84:1739:1324#0/1
`^`¥bbb``_TWU^b_]`aa^^^HYZP_]`^QZ`_a__`^L
@HWI-EAS443:3:84:1757:1227#0/1
GGGGCATGGAAATGAGGCGCTGCCTTCTCAGTCTCTTCA
+HWI-EAS443:3:84:1757:1227#0/1
¥aWV[``baZ_bbb``¥ab`abUDU``ab`aa^Xa^```Q
@HWI-EAS443:3:84:1783:116#0/1
CCTGGAACCTTCGATCTTGGGGGGCTATATGAAGCAATCG
+HWI-EAS443:3:84:1783:116#0/1
aabbbbaaaaabbaa_aaa]abaa_a_a`aX]``[```Z_
@HWI-EAS443:3:84:253:299#0/1
CACTCCCCTGGGTGACTCTCCGATTGGCCATGTTCCGAT
+HWI-EAS443:3:84:253:299#0/1
a`bab^[^T`b¥¥YZ]a¥YaPRPJ¥_^_XDD]N[_BBBB
@HWI-EAS443:3:84:262:569#0/1
ACTTGAGGGTTTTCGGCTGAATCGAGAAAATTGCTTCTC
+HWI-EAS443:3:84:262:569#0/1
]VI[RT^[XXY_SZ_[XY]`[VZ¥¥_WYVY[[_]ZZ^Y`
@HWI-EAS443:3:84:289:722#0/1
TGTTACTCCAATTTCAATGAACCGGTTCTCTTTGTAATCA
+HWI-EAS443:3:84:289:722#0/1
aaaabaaaaaaaaa_aa¥```aa_] [V`_`__a_a]¥_^`__
@HWI-EAS443:3:84:316:1054#0/1
CCCCTGTTGTGTTACATATACTGTTACCCTGTCCAGGC
+HWI-EAS443:3:84:316:1054#0/1
aab`TPTQZYQVXZNXURO]UT]QL[``_¥^^¥^RZQSINS
@HWI-EAS443:3:84:319:1607#0/1
GCCTTCTCCACTCCCCTGGGTGACTCTCCGATTGGCCAT
+HWI-EAS443:3:84:319:1607#0/1
_bb]`bb]`Y]aaaaa]_a¥^Q`ab_X]`aSJJP_a_¥U^
@HWI-EAS443:3:84:325:1091#0/1
AAATCCCAATTACCTCATGGCTTGAAGCAGGTGCTAGCA
+HWI-EAS443:3:84:325:1091#0/1
a`_aaaa¥^aaaa`aaaaaaaaaWYY^ZVGS^UNRRWRU[
@HWI-EAS443:3:84:378:748#0/1
GTCTCCACAACCTTGAGGGGTTTTCGGCTGAATCGAGAAAA

+HWI-EAS443:3:84:378:748#0/1
a_b¥baYba_aaaaaaba`aa`_a^aaaa`_aa`a_^^`
@HWI-EAS443:3:84:381:827#0/1
TGGCACCAGAAAAAGTAGACTTTGATGACTGCAAAGATGT
+HWI-EAS443:3:84:381:827#0/1
`a_baa` ``aa`[`aYaa]`aaaYaa`V`_a_¥`]a__a_
@HWI-EAS443:3:84:38:58#0/1
TTGGGGGGCTATATGAAGCAATCGAGGAGTGCCTGATTAA
+HWI-EAS443:3:84:38:58#0/1
`aaWa^S^XZ[[SXaYR^`_Q^_]_[F[X]UTX^UWVRV
@HWI-EAS443:3:84:457:764#0/1
GGCCACCAAAGCGACTACACCCTTGACGAAGAGAGCAGG
+HWI-EAS443:3:84:457:764#0/1
abbbb`bQW¥baaaY]aaaa_aaa¥a¥_ba[a^_[a]``X
@HWI-EAS443:3:84:488:1608#0/1
GAAAGGCATAAATCCCAATTACCTCATGGCTTGGAAAGCAG
+HWI-EAS443:3:84:488:1608#0/1
a_¥HY]V`aa`bZRa_¥XXa¥W_`Taa¥Qa¥]_MFMLRLY
@HWI-EAS443:3:84:48:1818#0/1
GGGGCATGGAAATGAGGCGCTGCCTTCTTCAGTCTCTTCA
+HWI-EAS443:3:84:48:1818#0/1
^ZZ¥]V`_a]bba_a]a`aa_¥a` ``a^`a__^[``a_a`
@HWI-EAS443:3:84:495:1150#0/1
ATTTTCACCGAGTGCCCACTTCAATTGGCTTGTCTCTTCA
+HWI-EAS443:3:84:495:1150#0/1
Y`aa]bbbbbb`XVbb`TYa_aaaa`_a__a]¥_a`a]__R
@HWI-EAS443:3:84:508:1198#0/1
GTGGGCACTCGGTGAAAATATGGCACCAGAAAAAGTAGAC
+HWI-EAS443:3:84:508:1198#0/1
`[`b_a`aW]a^X_Qa`_]_a`a_^Z`YP[P¥[NYQX_0_Z
@HWI-EAS443:3:84:564:27#0/1
CTTTGTAAGTATGGAGTTCTCACTCACTGACCCGAGACTG
+HWI-EAS443:3:84:564:27#0/1
abbbb`bbb¥aaba`aaaaaa` ``^`babaa`aa_b` ``a
@HWI-EAS443:3:84:588:772#0/1
GAGACTTTGGTCGGCAAGCTTGCGCATAGTTCCTGTAATC
+HWI-EAS443:3:84:588:772#0/1
aaaaaaaaa]`b_ab_Y^a`_a_a`_a__Ya` ``a^^`_`_
@HWI-EAS443:3:84:615:576#0/1
CTTTGGTCGGCAAGCTTGCGCATAGTTCCTGTAATCTCAA
+HWI-EAS443:3:84:615:576#0/1
abbb^b_a` ``aY_aaa]`` `aa`__`a`^a¥Y` `aaa^`
@HWI-EAS443:3:84:617:554#0/1
GAAGAGAGCAGGGCAAGAATCAAACTAGGCTTTTCACTA
+HWI-EAS443:3:84:617:554#0/1
aaa^aa_aaa_]_aaaa`_]aa`a^_a__[____]b`_`
@HWI-EAS443:3:84:625:1696#0/1
GAAATGGAAATCCGAATACATGAAACAACTTCCAAATGT
+HWI-EAS443:3:84:625:1696#0/1
abbaaa`abaabbabbabb`abb¥bbbba`a`ab`aaa]

@HWI-EAS443:3:84:675:1079#0/1
CTCATGCTTGCATATGTTCAATCGGGGCAACATCTTCTC
+HWI-EAS443:3:84:675:1079#0/1
a_aaa`aaaa]baaab_aaaaaa`_`_]_`_`a`a`_`_`
@HWI-EAS443:3:84:726:1200#0/1
CATTAATCAGGCACTCCTCGATTGCTTCATATAGCCCCC
+HWI-EAS443:3:84:726:1200#0/1
``aa^``_[]_ba`aaaaaa__aa`_`a`a_a_`_`_]`aZ
@HWI-EAS443:3:84:734:766#0/1
GAACCGTTCCTTTGTAATCATACAAATCAGGAAGAAAT
+HWI-EAS443:3:84:734:766#0/1
aa_¥^Y_XYVaa¥aa_`^a`a`]]aaa`WaV]]WR¥WZ
@HWI-EAS443:3:84:756:1154#0/1
CCTCCGTGTTACTCCAATTTCAATGAACCGTTCCTTTG
+HWI-EAS443:3:84:756:1154#0/1
`[^a`Z[^_`]^`a_U^[a_`VZYN_aa]aWRUaa^^¥_
@HWI-EAS443:3:84:791:787#0/1
GCATGGAAATGAGGCGCTGCCTTCTTCAGTCTCTTCAGCA
+HWI-EAS443:3:84:791:787#0/1
a_aaaa^[`_a^a__`_aa¥_`_`a_¥_`S]_`a¥MX^R^
@HWI-EAS443:3:84:819:1594#0/1
AATCGGGGCAACATCTTCTCCTATTTTCATCAAGTTCTATC
+HWI-EAS443:3:84:819:1594#0/1
a`aa[]`^^Y`_``^__`_a^```__a__¥_S_Z^__]
@HWI-EAS443:3:84:872:1896#0/1
AGCAGGAACCTTGACCGCTGATGGCAAAGAGGCCCATCAG
+HWI-EAS443:3:84:872:1896#0/1
XH]¥_¥aa^`_`^aa¥X_`Y¥¥`X`a^a¥`¥Z`P^]`Z[K
@HWI-EAS443:3:84:932:1880#0/1
GGGATCTTCTTCATTTTCAATGTCCTGTAGCTCTGCTA
+HWI-EAS443:3:84:932:1880#0/1
`abaa`bbabbbbbbbabbbbbababbbbab`aa`b
@HWI-EAS443:3:84:935:1615#0/1
CATAAATACGGCCTTGCTCAATGCATCCTGTGCAGCCATG
+HWI-EAS443:3:84:935:1615#0/1
a`a^_aaa[[[aa_a]a`_a`aa_`_]`XEM[`_Z^`a`¥
@HWI-EAS443:3:84:953:1932#0/1
ATAAATCCCAATTACCTCATGGCTTGAAGCAGGTGCTAG
+HWI-EAS443:3:84:953:1932#0/1
aabbaaaba`a`a`a`_`_`aa`_`_`[XXTSW[KR[VYR
@HWI-EAS443:3:84:997:1913#0/1
AAGAATTCCTTGGTCATGTCTTTCTTTGACAGAAGACT
+HWI-EAS443:3:84:997:1913#0/1
UNU_VXU_¥ZXZWLZY[Za_X[^Z]`TZ_Y`a^¥___ZT
@HWI-EAS443:3:85:1038:1095#0/1
AGCAATTTTCTCGATTGAGCCGAAAACCCCTCAAGTTGTG
+HWI-EAS443:3:85:1038:1095#0/1
]USZRW¥`]a[``S`]R]aPZ[XPTZ[]^ZS]N]^SV
@HWI-EAS443:3:85:1049:1479#0/1
CCTTGGGATCTTCTTCATTTTCAATGTCCTGTAGCTCT

+HWI-EAS443:3:85:1049:1479#0/1
`abbb`bababbbbaaabbabababaaaaa`baa[a`
@HWI-EAS443:3:85:1077:144#0/1
AAAGAATTCCCTTGGTCATGTCTTTCTCTTTGACAGAAGAC
+HWI-EAS443:3:85:1077:144#0/1
a¥a^_aab`]^Z^_[a`aa^Z`W]^__¥_^`_a[W^
@HWI-EAS443:3:85:1091:35#0/1
CTTCCTTCAATTATCTCAAATCGGTGCTTCAATAGTGCAT
+HWI-EAS443:3:85:1091:35#0/1
aabbb`bbaaa^`bab]^aa]^aa`b]^aa^[aab`_]L[`
@HWI-EAS443:3:85:1146:303#0/1
GAATTCCTTGGTCATGTCTTTCTCTTTGACAGAAGACTCG
+HWI-EAS443:3:85:1146:303#0/1
`aa`````baaaY]¥Y`Yaa`aaaZ`_aaa[[^`_`a^^TN
@HWI-EAS443:3:85:1186:1801#0/1
ACCGAATCATGGCCTGGACAGTGGTGAACAGTATATGTAA
+HWI-EAS443:3:85:1186:1801#0/1
_¥`W_aaa`a]^a`¥^UaaYX`_S`^Wa¥Ya^a^Y[``
@HWI-EAS443:3:85:1187:1889#0/1
GCCTGGACAGTGGTGAACAGTATATGTAACACAACAGGGG
+HWI-EAS443:3:85:1187:1889#0/1
Z_bbb`bbb]^ab[``baba^bb`ba``aaaaa````a_
@HWI-EAS443:3:85:1209:575#0/1
GTGGTTTGGACTATGTTAGGCTCTTTCCAGCCAAAGAATGT
+HWI-EAS443:3:85:1209:575#0/1
aXaa^aaa`^a`_aX`__[]^```YW]^``^_____]_TX
@HWI-EAS443:3:85:120:1427#0/1
CTTGGGATCTTCTTTCATTTTCAATGTCCTGTAGCTCTG
+HWI-EAS443:3:85:120:1427#0/1
aababa]ababaabaab`aaaaa]aaa`a````Yaa]^a^^
@HWI-EAS443:3:85:1210:60#0/1
TGGGATCTTCTTTCATTTTCAATGTCCTGTAGCTCTGCT
+HWI-EAS443:3:85:1210:60#0/1
abba_a`aa_a`ba`_aaaa`aa_a____aa`_`¥a`^`_]`
@HWI-EAS443:3:85:1260:1826#0/1
CTCAATGCATCCTGTGCAGCCATGGATGACTTTCAGCTGA
+HWI-EAS443:3:85:1260:1826#0/1
]^]a_a]aaaaabb`b[_aaV_aabaaba`_b^Wbb_abZ
@HWI-EAS443:3:85:1270:807#0/1
TGAATACATAATGAAGGGAGTGACATAAATACGGCCTTG
+HWI-EAS443:3:85:1270:807#0/1
aa`a```^`a]aaa]^aa]^`^a`a`_a`^aaa`_`_[_`]
@HWI-EAS443:3:85:128:992#0/1
CACTGTCATACTGTTAAGGTCTCCAACATCTTTGAGTC
+HWI-EAS443:3:85:128:992#0/1
aTabaababb`_`abba^a¥[aaaaaa``aaa`_`a`Sa[a
@HWI-EAS443:3:85:1352:1787#0/1
GAGATCTGGGCTCTGGCTCATCACTGTCATACTGTTAAG
+HWI-EAS443:3:85:1352:1787#0/1
``aab`U`]^WaaY]^W]^____aSaa_¥a_Y¥VYZ]L¥]^

@HWI-EAS443:3:85:1421:185#0/1
CTGGGTCCAAAATGAATTCAATAAGGCATGTGAATTGACT
+HWI-EAS443:3:85:1421:185#0/1
``]¥PG^RWXY[a][[aX[a__TZaUUU]]ZYJUa``]U[
@HWI-EAS443:3:85:1463:81#0/1
AACATCTTCTCCTATTTTCATCAAGTTCTATCCAGCTTGAA
+HWI-EAS443:3:85:1463:81#0/1
aa_[b`abaa`_babbb_ab¥aa`aa`aaa`Zaa¥aaa_^
@HWI-EAS443:3:85:1477:912#0/1
CATTAATCAGGCACTCCTCGATTGCTTCATATAGCCCCC
+HWI-EAS443:3:85:1477:912#0/1
`babbaaab`a^_G`ab`Maaaa`^[N_baa`Ua_G`_
@HWI-EAS443:3:85:1518:39#0/1
CACCGATTTGAGATAATTGAAGGAAGAGACCGAATCATGG
+HWI-EAS443:3:85:1518:39#0/1
U¥bbbbbababbbbbbababbb^bb`ba`aaab_abba
@HWI-EAS443:3:85:159:1410#0/1
ATTGTAGAATCTGGTGACCCGAATGCACTATTGAAGCACC
+HWI-EAS443:3:85:159:1410#0/1
aaba_]b^[`aaaa¥a^aaaa[`aaa```aa`_a`a¥____
@HWI-EAS443:3:85:185:195#0/1
GAACTTGATGAAATAGGAGAAGATGTTGCCCGATTGAAC
+HWI-EAS443:3:85:185:195#0/1
a`b_aabaaa]__a_a`^a^_a_a`Z]]^_X^_W_V_^aZ
@HWI-EAS443:3:85:212:940#0/1
CAGTGGGACACTTCTGCTGTAAAATAGTTCCTCCTCATGC
+HWI-EAS443:3:85:212:940#0/1
aaaXS__S]aaX`]XR]ZZ¥_aaWVOZ¥[¥Y¥¥¥XQTZ^W
@HWI-EAS443:3:85:23:1751#0/1
AAGAATTCCTTGGTCATGTCTTTCTCTTTGACAGAAGACT
+HWI-EAS443:3:85:23:1751#0/1
a`0¥S¥aaaaa]X[```YTaa`_aaa`_]Z_X¥¥_`aW
@HWI-EAS443:3:85:250:759#0/1
GGGTTTTCGGCTGAATCGAGAAAATTGCTTCTCATTGTTC
+HWI-EAS443:3:85:250:759#0/1
aaa[aa`a`^aa]ZS¥ba`_[V_S]a`^[]a```¥Q_V^`
@HWI-EAS443:3:85:263:325#0/1
CACTTTCCCAATAGAGCCTTCCCTCCACTCCCCTGGGTGAC
+HWI-EAS443:3:85:263:325#0/1
^aababbbbbb]b_bbbb`b`baaabba_abaaY`^`Ta`U
@HWI-EAS443:3:85:318:1499#0/1
AGGTTCCATTGGTTCTCACATATAGGAACATGGGCCTCGA
+HWI-EAS443:3:85:318:1499#0/1
]`]aab¥^a]_aa`a[aaaaaa`¥]Z_aY^Y^`a_^V^
@HWI-EAS443:3:85:342:1630#0/1
GGGTTTTCGGCTGAATCGAGAAAATTGCTTCTCATTGTTC
+HWI-EAS443:3:85:342:1630#0/1
a`b_bbbb`_bbbbbaa`^abba``aaa`aaa`baaa]aa
@HWI-EAS443:3:85:363:871#0/1
CTCATTGAGAAATGATACTGATGTGGTGAACTTTGTAAAG

+HWI-EAS443:3:85:363:871#0/1
aaaa`bab_`a`b`)]abaaa`_^W_`0a_`aa^_a]^LY
@HWI-EAS443:3:85:369:817#0/1
GTGCCCACTTCAATTGGCTTGTCTCTTCATGTTCTTTGT
+HWI-EAS443:3:85:369:817#0/1
aaababa_aab_`[]_U_¥HUUPZH`Y[[GHP_S]aZHV
@HWI-EAS443:3:85:409:1642#0/1
TTTTGGACCCAGCTTGCTAGAGATCTGGGCTCTGGCTCAT
+HWI-EAS443:3:85:409:1642#0/1
abbba`bbbaaaa_a^aaa`aaa_a_Q_]`^a_`Za_aa`
@HWI-EAS443:3:85:542:132#0/1
AAACTTTAGAGCCTATGTAGATGGATTTCGAGCCGAACGGC
+HWI-EAS443:3:85:542:132#0/1
a`aabaa_a_a_aa_aa]]a_aa_^_X__`]]_^_][]U
@HWI-EAS443:3:85:574:326#0/1
GGGCATGGAAATGAGGCGCTGCCTTCTTCAGTCTTTCAG
+HWI-EAS443:3:85:574:326#0/1
abaaaab_aaaaaaaa`aa`aa_`a`aaW_a`_`a`
@HWI-EAS443:3:85:631:1934#0/1
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+HWI-EAS443:3:85:631:1934#0/1
a`Wabaa`[a`_`_`a`aa_`a]_U`_¥V¥[_U[[_X
@HWI-EAS443:3:85:66:1821#0/1
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+HWI-EAS443:3:85:66:1821#0/1
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@HWI-EAS443:3:85:673:164#0/1
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+HWI-EAS443:3:85:673:164#0/1
a^`aa]_[XZaa^_a^`a^`_XX^_^]`^_¥_WZ__^X
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+HWI-EAS443:3:85:676:173#0/1
^V`^aa]baaaaa^`_Y_^a`]¥ZY_^a`]`¥¥¥]U_XHL
@HWI-EAS443:3:85:705:903#0/1
CATATAGCCCCCAAGATCGAAGTTCCAGTTCCAGGTT
+HWI-EAS443:3:85:705:903#0/1
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@HWI-EAS443:3:85:716:534#0/1
GGTTTGACTATGTTAGGCTCTTCCAGCCAAAGAATGTCT
+HWI-EAS443:3:85:716:534#0/1
a`T`ba`aba_V[aaa¥`^aaa_a`a`^Z_aaV``a[¥^
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+HWI-EAS443:3:85:719:1297#0/1
a_`aa`]aaaaaaaaabaa`aaaaaaa`_[a``aa``a`
@HWI-EAS443:3:85:770:926#0/1
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+HWI-EAS443:3:85:770:926#0/1
a`[Taaa`babb`abb¥_FZWbaabaa[a_a`_`a_a__a

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+HWI-EAS443:3:85:971:110#0/1
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+HWI-EAS443:3:86:1021:227#0/1
VabbbZ[X[bbaab`bbb_aa`aUbaaaa`a_aa^a¥__
@HWI-EAS443:3:86:1074:870#0/1
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+HWI-EAS443:3:86:1074:870#0/1
`^[_aZ_Za`ab^W`ab¥^ab`b]W`Ubbbaa^`[[H`IV
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aaa_`Xa`aaX``aQ__^`0¥`¥RXKWZP``MYRZXNTY
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+HWI-EAS443:3:86:1083:1457#0/1
ababbbbaa]aa^__a``_aab]a`aa____[YV]a^]a`
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+HWI-EAS443:3:86:1558:1163#0/1
`ab_bbaabab_bbbabbbbbbabab_aRbab]aZb_Zaa
@HWI-EAS443:3:86:178:248#0/1
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+HWI-EAS443:3:86:178:248#0/1
``^aa```^Xa`^^Z`]`T¥¥`¥`]`RZNZR^RZSTPST
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abaaababa`a_aaaaaaa`]a^_]Y_[a`]_^`WYZ]
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+HWI-EAS443:3:86:195:390#0/1
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@HWI-EAS443:3:86:205:1260#0/1
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+HWI-EAS443:3:86:205:1260#0/1
_YQ_ab`ab]aaa`aZV```a^[Z[a[`YVV]]_`_a¥`
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+HWI-EAS443:3:86:417:1837#0/1
S¥[b][`[Uba¥ZaSV`UR_OY[X]X^YR_X¥XUY`UGYX
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aabaa`abbabababaaaa`_^a`aa`X_X^aZO]W^R[
@HWI-EAS443:3:86:444:332#0/1
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+HWI-EAS443:3:86:444:332#0/1
aaaab`baa]``aaaa`ba_a]a`^`^a^`aa``_____`]
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+HWI-EAS443:3:86:488:1417#0/1
a_ab[baa`Z^aa`bYaa_b^`Z_]¥NWRZV`YXW¥_¥[_
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S¥S¥_Z]Zaa[```bb`_a¥¥_aaaa`_Y_Y_a_aZ]]bV
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+HWI-EAS443:3:86:530:77#0/1
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+HWI-EAS443:3:86:532:546#0/1
aaa^^_babVbabaaSY]aa_a_aaY`^`_]`Za`]RLR
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+HWI-EAS443:3:86:561:333#0/1
XX`b`Q_^[U^aWZXT__[_`__bYV^PZW[aaV[Z^XX`^
@HWI-EAS443:3:86:568:1499#0/1
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`ab_]`b^T`aaababaaa_P¥`a`_a_aa``]aaa^a[Z
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+HWI-EAS443:3:86:67:426#0/1
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@HWI-EAS443:3:86:716:1666#0/1
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+HWI-EAS443:3:86:716:1666#0/1
__W_bbbbbbabbbabb`aab^babbbbbbabaaXaa^
@HWI-EAS443:3:86:721:326#0/1
AAACTTTAGAGCCTATGTAGATGGATTGAGCCGAACGGC
+HWI-EAS443:3:86:721:326#0/1
aaa^aaaa_a__aaaY`_`_`_^`aN[`_UZ^Z_W_¥W
@HWI-EAS443:3:86:721:548#0/1
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+HWI-EAS443:3:86:721:548#0/1
ababbbabbbbabaaabaab`baaa_baaaaaaa_aaaa
@HWI-EAS443:3:86:746:1315#0/1
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+HWI-EAS443:3:86:746:1315#0/1
aaa^a^_aZ¥__a__a`aaa__]^`^`^`^`_^`]^`^`_`^`
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+HWI-EAS443:3:86:805:1687#0/1
]a]a`aa`Z__¥`aaabaV¥aYUb`a`J`Y`a`b`Z¥aa
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aaabaabaaaaaa`aaa`_``aaa`_aaaa_a¥`ZX]¥
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+HWI-EAS443:3:86:811:1308#0/1
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+HWI-EAS443:3:86:827:499#0/1
aaaa_baa[a`aa`__aa_]a`_¥Y`^`a^^¥RZa^¥T
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+HWI-EAS443:3:86:839:1129#0/1
abbbabbababa`b`bbbababbbab```a^b^aaaaba`
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+HWI-EAS443:3:86:928:720#0/1
_^XaaXM]^`^`_aa]aa]_`_`[]`_YS^`]a]Waa]_Q
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+HWI-EAS443:3:86:933:1131#0/1
^bbbbbbbbbabab_bbb`aa`abb^_ababaabaaaab
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+HWI-EAS443:3:86:955:207#0/1
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@HWI-EAS443:3:86:963:1715#0/1
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+HWI-EAS443:3:86:963:1715#0/1
[`b_G_UZU[`a`b]abaKaNb`bbJ¥]^`a^`^aa^
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+HWI-EAS443:3:87:109:1446#0/1
aa^`baaUbVS_[]WYM]^Y¥XRP¥]^VDSR[U]VZZLSU
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+HWI-EAS443:3:87:1130:436#0/1
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+HWI-EAS443:3:87:1199:925#0/1
aa`a`aab¥^T`X]^`_Y¥]a]Wb__[]V[I_a^baZUaY
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+HWI-EAS443:3:87:1202:901#0/1
abb`bbbabbbbaaabab]^`babbbbabbb_babaabaa
@HWI-EAS443:3:87:1237:1037#0/1
GCTCTCTTCGTCAGGGTGTAGTCCGCTTTGGTGGCCATC
+HWI-EAS443:3:87:1237:1037#0/1
aaa`a]]_]b¥^a^aaa^a^_Z_[]Y`aa]^]¥YNQXN
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+HWI-EAS443:3:87:1297:1200#0/1
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+HWI-EAS443:3:87:1322:770#0/1
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@HWI-EAS443:3:87:1323:840#0/1
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+HWI-EAS443:3:87:1323:840#0/1
`a¥a^^Ya`^^`_abb]_b_b¥bbaZSa_b¥baaaaU`a
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+HWI-EAS443:3:87:1337:876#0/1
_OG^`a^_a_[]abH`^S_`OR]UUV]aRP[VaZW^¥OT[
@HWI-EAS443:3:87:1444:1673#0/1
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+HWI-EAS443:3:87:1444:1673#0/1
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_bababbbbbbbaaaaa`_a¥baaaaaaab]aaa_a`aa
@HWI-EAS443:3:87:145:1020#0/1
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+HWI-EAS443:3:87:145:1020#0/1
aa[M[`a^a¥aZaaa^Qa[]___Sa¥¥UZRX^¥^¥__W^
@HWI-EAS443:3:87:1509:424#0/1
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+HWI-EAS443:3:87:1509:424#0/1
aaa`aa[abb`bbbaa_aS]Ia``_b_b_`bYba`b_^`a
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+HWI-EAS443:3:87:1554:656#0/1
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+HWI-EAS443:3:87:1617:1193#0/1
L^a_]X`bab_baab^aaaab_^Zbb^bb`QRWWbbbaXa
@HWI-EAS443:3:87:1663:792#0/1
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+HWI-EAS443:3:87:1663:792#0/1
abaaHa`a¥b`M_a``_[a_aZY_]``aUa[PVN_]ZaX`
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a```[bbaabb__abWbaa]^]abb_babaaab[WUabab
@HWI-EAS443:3:87:171:411#0/1
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ab`a`a`aa^^]_^`__a¥^_¥¥_`^¥¥W[ZZVUVU[WWW
@HWI-EAS443:3:87:1791:472#0/1
AGCAGGTGCTAGCAGAGCTACAGGACATTGAAAATGAAGA
+HWI-EAS443:3:87:1791:472#0/1
aaaaa`^_aaa`_aa`a`a`_aaaa__a`a^`a`a`````
@HWI-EAS443:3:87:265:352#0/1
ATAAAATCTGAGAAGACACACATTACATCTTTTCATTCA
+HWI-EAS443:3:87:265:352#0/1
a```[^aaab_aW__`_]`]`a__`__`_^^____^^
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+HWI-EAS443:3:87:28:1430#0/1
_`ba¥_TSS_`^YYVYXRR^_YGYZ^]USZZW]a^WQS¥¥
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+HWI-EAS443:3:87:294:770#0/1
a`V¥baaab`V¥b_^abb¥ab__^aa`a_aaT`a`a_^
@HWI-EAS443:3:87:324:1865#0/1
GGCCAATCGGAGAGTCACCCAGGGGAGTGGAGGAAGGCTC
+HWI-EAS443:3:87:324:1865#0/1
^_a_¥`^b` `[Saa_aaaaX^`¥¥X¥]V`¥NNZ`X¥SXX^
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+HWI-EAS443:3:87:328:1931#0/1
Xb` `a¥^Xab` `ba¥a¥aaaaa_J` `a`bYaabaa^abY
@HWI-EAS443:3:87:339:413#0/1
GGGGGCTATATGAAGCAATCGAGGAGTGCCTGATTAATGA
+HWI-EAS443:3:87:339:413#0/1
aaa]¥`^aa`^a_a_a_a_aa_a_]]aa]]`_] ^__^
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ATGAGAAGCAATTTTCTCGATTGAGCCGAAAACCCCTCAA
+HWI-EAS443:3:87:427:973#0/1
abaa`abbaaRaaaaaaaaaaa_a_a_ZR` ` _Y` ` ` _^Z
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AATGAATTCAATAAGGCATGTGAATTGACTGATTCAAGCT
+HWI-EAS443:3:87:463:1023#0/1
aaaaaaaa_aa`a`_aa_aa]a`_`_`_`_aa__` ` ` __^
@HWI-EAS443:3:87:483:938#0/1
GGGGGAGGGAATACCACTATATGATGCAATCAAATGCATG
+HWI-EAS443:3:87:483:938#0/1
aba`b_¥]_`^a__`aa`a_aaa_` ` `a`_a_ [[^`_a`a
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a_]aabba`aaa_b[W]]_Y_a[`RXTX^RQR[UZ^XZTL
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+HWI-EAS443:3:87:572:856#0/1
ab__abaa[_a`Yab[SUHR[PZ_a[XHY`¥Y]SZMW__V
@HWI-EAS443:3:87:596:771#0/1
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+HWI-EAS443:3:87:596:771#0/1
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@HWI-EAS443:3:87:607:394#0/1
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+HWI-EAS443:3:87:607:394#0/1
a`^^^ [_[_¥ZXaaT`_^_X¥` __[JYSS¥`Y¥a^^Y__
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+HWI-EAS443:3:87:633:709#0/1
a_a`aab^_b_]a^_b_`^^`a`aS]`]__[_`ba^aaaa]
@HWI-EAS443:3:87:649:257#0/1
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+HWI-EAS443:3:87:649:257#0/1
a__ba]`ab`aaa`a`a_a__`a_a_` `aWa`W^`¥^W_

@HWI-EAS443:3:87:69:1441#0/1
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+HWI-EAS443:3:87:69:1441#0/1
a^Y]] [a`][]`a`aa`_T`_`a`_`^^^`_`a`[_`_]^^
@HWI-EAS443:3:87:739:689#0/1
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+HWI-EAS443:3:87:739:689#0/1
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@HWI-EAS443:3:87:800:256#0/1
GGGGGCTATATGAAGCAATCGAGGAGTGCCTGATTAATGA
+HWI-EAS443:3:87:800:256#0/1
aa_aa`aa_aa_[^`_]V`_]`aW`Y`VU`_X]]]]X^]
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+HWI-EAS443:3:87:817:1598#0/1
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+HWI-EAS443:3:87:821:850#0/1
aaa`aa`b]aa`Sa_a[Z`_`_`aR[XZV_]__ [ZU]__
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GAAGCAGGTGCTAGCAGAGCTACAGGACATTGAAAATGAA
+HWI-EAS443:3:87:832:1130#0/1
aaaa¥_Y^X]a^____`[^_¥a^`^ [¥__`][] [S][] []
@HWI-EAS443:3:87:845:1810#0/1
ACAGATTTTGCCAGTAAGGTCCTGCACACTTTCCCAATAG
+HWI-EAS443:3:87:845:1810#0/1
aa_XOGZ]aR_¥`¥PYQPNTa_X[P^¥_Y^`_]¥b^ZTW
@HWI-EAS443:3:87:86:1311#0/1
CAGTCATCAAAGTCTACTTTTTCTGGTGCCATATTTTCAC
+HWI-EAS443:3:87:86:1311#0/1
aa¥F`__b_[`aV]`R`_aaa_a`_]Ja_a]a__^`_`^a]
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+HWI-EAS443:3:87:906:1688#0/1
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@HWI-EAS443:3:87:923:241#0/1
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+HWI-EAS443:3:87:923:241#0/1
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+HWI-EAS443:3:87:930:481#0/1
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+HWI-EAS443:3:87:931:1799#0/1
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+HWI-EAS443:3:88:1022:171#0/1
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+HWI-EAS443:3:88:1041:14#0/1
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+HWI-EAS443:3:88:1043:1494#0/1
abYb`a`[a`aa^b_V_`aXaaZ[a_]a^aaab`ZX_X¥
@HWI-EAS443:3:88:1048:1595#0/1
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+HWI-EAS443:3:88:1048:1595#0/1
I_U_a[¥MNY_VVWV^[¥_W_Z``ZI^VW_HV`a]]O[_a
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+HWI-EAS443:3:88:1068:1573#0/1
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]b`aba`YYabb`bbaab_ab^bb^a]aT`aaa_a_a____
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+HWI-EAS443:3:88:1097:396#0/1
¥W_^]aa`]bbabbbb`^[_abbb`^^bbbaW]Xbbaa`b
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+HWI-EAS443:3:88:1121:268#0/1
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@HWI-EAS443:3:88:1156:430#0/1
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¥`_S[¥aN¥HX¥^XWNYH^_baab`[_aTIWR]]]aZa`
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+HWI-EAS443:3:88:115:1670#0/1
`¥I¥`aa¥]_Z^`aaa^`aaa_aa``a_¥a_]Y]X`_SY
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ab`b^aba_a`aa`]aaaa_a_]_`a``Y^b^`_]`a`0a
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+HWI-EAS443:3:88:1183:741#0/1
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+HWI-EAS443:3:88:1186:180#0/1
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+HWI-EAS443:3:88:1217:361#0/1
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+HWI-EAS443:3:88:1335:951#0/1
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@HWI-EAS443:3:88:1362:448#0/1
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+HWI-EAS443:3:88:1362:448#0/1
`]b[baba_baa_b`ba_a`_b^aaa_a_aaaQQ^a_a_
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+HWI-EAS443:3:88:139:282#0/1
_P]V]¥[X`¥^F0¥XZa__`_[_`YXQX^[[^[_ZZZ^
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+HWI-EAS443:3:88:1460:945#0/1
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@HWI-EAS443:3:88:1533:127#0/1
CGATTGCCATGTTTCCGATTTGTTTCAAAGAATTCCTT
+HWI-EAS443:3:88:1533:127#0/1
a¥V`abaZV`bbaaa¥`[P__aaTa_YTY^aa`````_S_a
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+HWI-EAS443:3:88:1566:659#0/1
__[abU[a`TXbab`b`P_a[`SHWXaabaab¥^b`abb
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@HWI-EAS443:3:88:1582:603#0/1
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+HWI-EAS443:3:88:1582:603#0/1
_¥YbYa^`[bba]¥Z^OGU^`baa¥URa_X`XI_GO]FOF
@HWI-EAS443:3:88:1731:782#0/1
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+HWI-EAS443:3:88:1731:782#0/1
`R`_]`[]]aa`¥XX_a`[S[^]S_[TTX[]YYVL[TQBB
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+HWI-EAS443:3:88:1744:319#0/1
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@HWI-EAS443:3:88:1757:1145#0/1
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+HWI-EAS443:3:88:1757:1145#0/1
aba]W_Zbb]a__`[`]aa^`Z^[^U^_ZV_VJUSZ^W[
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+HWI-EAS443:3:88:1779:420#0/1
`ba^`a]]aa`^]``Y]``_a¥¥S¥[Y^U_ZTZ[YY^TP[
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+HWI-EAS443:3:88:228:821#0/1
aaaa_Z^aa`X`a_aa_aa`a`_^_¥aa`^_W[``__¥Z
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+HWI-EAS443:3:88:431:760#0/1
a`X_] [¥`^`aa`a__aa`¥` `` `^`a^^^__^_a[^
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+HWI-EAS443:3:88:516:1194#0/1
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+HWI-EAS443:3:88:525:1847#0/1
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+HWI-EAS443:3:88:565:382#0/1
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+HWI-EAS443:3:88:609:448#0/1
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+HWI-EAS443:3:88:677:920#0/1
aba` ``ab`Uba^bb[aaa`Uaaaaaa]aaaZ__`YQR
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+HWI-EAS443:3:88:684:731#0/1
Sa` [¥_bbaZaaaa__bbYbbb_bb]ba¥`bbbbbbb`
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CAGGGCAAGAATCAAACTAGGCTTTTCACTATAAGACAA
+HWI-EAS443:3:88:773:864#0/1
^Q¥^b`^`[_Tabb_H_` `b`_QXbaba__Z_ba`^^¥^a^
@HWI-EAS443:3:88:809:918#0/1
TACTGAATACATAATGAAGGGAGTGTACATAAATACGGCC
+HWI-EAS443:3:88:809:918#0/1
`b`]aaab^aaaaY_aa^__`¥¥0[GZ_`X¥^_aa]^`^_

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ab_`bbaababaaaa_aa^abaa]_a]`aaaaba`a`a]
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+HWI-EAS443:3:88:934:429#0/1
abI`Q`[_b_¥b]P_]a_]`aaaaa^_`aaVa_aaaQ¥
@HWI-EAS443:3:88:951:1699#0/1
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+HWI-EAS443:3:88:951:1699#0/1
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+HWI-EAS443:3:88:995:1766#0/1
aaa`a`Z_aa^`aabU`aab`Va^^]aaaa_ab`a_a^`
@HWI-EAS443:3:88:997:1143#0/1
GGCCTTGCTCAATGCATCCTGTGCAGCCATGGATGACTTT
+HWI-EAS443:3:88:997:1143#0/1
T``^W_]RQM¥Ra``_a`^`Q_`^`b`abL¥[¥ba]]b``
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+HWI-EAS443:3:88:99:2007#0/1
aaaa_a`_^`_Va[a_`_ZX_____`^`^`Y^X_`^`^`[V]
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+HWI-EAS443:3:89:1012:1276#0/1
[I_`Zbb_0^aaaaaab^ba]^V]a`]]`ab]a__aa_a
@HWI-EAS443:3:89:1076:1044#0/1
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+HWI-EAS443:3:89:1076:1044#0/1
aaa[^__a`aa^aaaa`aa^`aa`_`_aaa__^`_`a__Z
@HWI-EAS443:3:89:109:1605#0/1
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+HWI-EAS443:3:89:109:1605#0/1
^ab`a`abbbbb¥bbbbabbbbaa^aabab]aaaaaa]^`
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+HWI-EAS443:3:89:112:1205#0/1
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@HWI-EAS443:3:89:116:526#0/1
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+HWI-EAS443:3:89:116:526#0/1
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+HWI-EAS443:3:89:1417:1094#0/1
a`aa`^Xa]¥`Y¥`b`aV]_a`a_Z^Yaa_V__`^``[^Y
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+HWI-EAS443:3:89:1541:782#0/1
a`abaaaaab^¥aaa^aaa^_a``]¥a`R]Za^__^^
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+HWI-EAS443:3:89:1546:47#0/1
aa_^^aba¥V_``X`aaR^aa`_aaa_a^_a_M_]^Y[
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+HWI-EAS443:3:89:1703:399#0/1
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@HWI-EAS443:3:89:1760:237#0/1
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a]ab[aaTa`^L0a[UP`VSUQ_P¥]^QGN`P[Y]SNY_D
@HWI-EAS443:3:89:228:1047#0/1
CACACATTCACATCTTTTCATTCCTGGAGAGGAGATGGC
+HWI-EAS443:3:89:228:1047#0/1
aZ]a`[^`X`__WZ¥[]__`_a`___ZL[___[^`W¥V[T

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+HWI-EAS443:3:89:234:1836#0/1
a_Ta¥aLT^`T_T^bTV`bRYV`QZSa__I¥a__`P]XG`
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+HWI-EAS443:3:89:250:1882#0/1
a`a_`aaaa`aaa`a`aa``[^`a_`_][^[_`^`^`^`^`
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+HWI-EAS443:3:89:250:983#0/1
aaabbbbaab_baaabbaabaaaaababa`aaaa`Z`^`
@HWI-EAS443:3:89:285:1748#0/1
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+HWI-EAS443:3:89:285:1748#0/1
]_`_`b`bbbbbb`b`bbbabb```aaabb`¥aaaaba]
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+HWI-EAS443:3:89:30:29#0/1
a[`¥`¥]`__^^^`_`[_^b^^U`X_YZY[[YZVV_]UU]X
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+HWI-EAS443:3:89:314:1971#0/1
`aa[`a_`_]``aaa__a`_^__[_¥_S¥PPJ_¥S_N¥
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+HWI-EAS443:3:89:328:526#0/1
a_¥__`XXZ_]ZZ¥X]ZW__^]W^¥HX_[TMDVYXV_RD
@HWI-EAS443:3:89:337:1693#0/1
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+HWI-EAS443:3:89:337:1693#0/1
ab`aa`aaa¥]a¥a¥a]¥_^`¥aW`¥W¥__Pa¥__Z]UU
@HWI-EAS443:3:89:352:255#0/1
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+HWI-EAS443:3:89:352:255#0/1
a``aa`baaa_aba`_aaaa`Ya^aa`V]`a_a``_]W]_
@HWI-EAS443:3:89:567:208#0/1
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+HWI-EAS443:3:89:567:208#0/1
abbaaaaabb`_a_aa`a_`aaaaaaaa^`_aaaZ^`_`_]`
@HWI-EAS443:3:89:589:1706#0/1
GAAGATCCCAAGGACAAAGAACATGAAGAGAACAAGCCAA
+HWI-EAS443:3:89:589:1706#0/1
abbZa`_aaaa`aaa_^aaaaaaaaaaaaa```adWFLY^^
@HWI-EAS443:3:89:591:286#0/1
TAAGACAAGAAATGGCCAGTAGGAGTCTATGGGATTCCTT
+HWI-EAS443:3:89:591:286#0/1
abbaaaa`a`]¥¥_````a^a^W`V__^__YT^]YYY_
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+HWI-EAS443:3:89:606:175#0/1
aba` `]¥^_^] ` `U^]0¥` ` `a`aaaXaa`W_]_^__
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+HWI-EAS443:3:89:614:716#0/1
aaaa`a`aaaa_a` `^aa`a`]__`¥_`^`^U^WT[TV¥
@HWI-EAS443:3:89:643:1683#0/1
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+HWI-EAS443:3:89:643:1683#0/1
aa^aaVYaaa` `a_a_^S` `^a^a_` ` `a^_[Q]__Xa` `]
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+HWI-EAS443:3:89:646:561#0/1
ab`bbabbbbbabab`ababaa_a_a^a`abaabaaaa`
@HWI-EAS443:3:89:727:551#0/1
AGACAAGAAATGGCCAGTAGGAGTCTATGGGATTCCTTTC
+HWI-EAS443:3:89:727:551#0/1
aaaaabaaaaaaa`aaaX` ` _U_` `a` _Z_a` _a^¥¥a` ¥
@HWI-EAS443:3:89:748:910#0/1
GCGTCTCCCAACTTGAGGGGTTTTCGGCTGAATCGAGAA
+HWI-EAS443:3:89:748:910#0/1
aa[^aa`aa` ` ` _abaWa¥ab] `a_aaY` ` ` ` ` _a]_`
@HWI-EAS443:3:89:826:997#0/1
CCCCGTTTCGTCGATGAAATGGAAATCCGAATACATGAAAC
+HWI-EAS443:3:89:826:997#0/1
R_bab` `]b`bU_ab_` `^bb`¥^a^`^^^_a^_a¥aX_Y_T
@HWI-EAS443:3:89:85:786#0/1
GGGGCATGGAAATGAGGCGCTGCCTTCTTCAGTCTCTTCA
+HWI-EAS443:3:89:85:786#0/1
[` ` ` _W¥a^QFYY_Z` `a_a]ba¥Z_N^a¥¥]aZaa` ¥LV
@HWI-EAS443:3:89:912:1204#0/1
GGTGTTC AATAGTGCATTTCGGGTCACCAGATTCTACAAT
+HWI-EAS443:3:89:912:1204#0/1
aaYbabbaaaa¥^^aabaa__b`^aaa_abaab`ba_` `a
@HWI-EAS443:3:89:931:88#0/1
TGCCATATTTTACCCGAGTGCCCACTTCAATTGGCTTGTT
+HWI-EAS443:3:89:931:88#0/1
aba^ab^aaba]a`_bab¥b_]a^_a^` ` `a_a`Ya`PZZ
@HWI-EAS443:3:89:966:54#0/1
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+HWI-EAS443:3:89:966:54#0/1
`U`X`ab]b]b`_K`bb_Waa]b^_aaJaabZTb_`_baT
@HWI-EAS443:3:8:1007:402#0/1
AGAGAAGATCCCAAGGACAAAGAACATGAAGAGAACAAGC
+HWI-EAS443:3:8:1007:402#0/1
abbaabb` `a`_a_a_`_aa`a`a¥__` ` `a` ___UaadU
@HWI-EAS443:3:8:1023:31#0/1
CACGAGGGGGAGGGAATACCACTATATGATGCAATCAAAT
+HWI-EAS443:3:8:1023:31#0/1
aaababbaaa`aaa^`a`^]`X` `a^` __^`V^]_R^^__

@HWI-EAS443:3:8:1132:1275#0/1
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+HWI-EAS443:3:8:1132:1275#0/1
`b__w_b]babb`aa[`a_`]¥_aaaUSU¥NU_P`^_a]U
@HWI-EAS443:3:8:1159:275#0/1
GGGCACTCGGTGAAAATATGGCACCAGAAAAAGTAGACTT
+HWI-EAS443:3:8:1159:275#0/1
aa`b_a]baZa__a`a^`¥`_^¥_]a^]]^`R¥`^X_[
@HWI-EAS443:3:8:1175:158#0/1
ATAGGCCAAGTGTGAGGCCCATGTTCCCTATATGTGAGAA
+HWI-EAS443:3:8:1175:158#0/1
aaaaa`aa¥b^aY_a_]a^]__]`XYU]^]¥]_U^UY]]
@HWI-EAS443:3:8:1334:732#0/1
GAAGATCCCAAGGACAAAGAACATGAAGAGAACAAGCCAA
+HWI-EAS443:3:8:1334:732#0/1
abbaaaaaV`_aa_Y`aaa`^^^aaZ_a`a`_Z`]`^0^]
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+HWI-EAS443:3:8:1342:814#0/1
^^YWaY¥]V]aa`a__a`¥aZ_¥MOKMZ^ZZ¥U^V]`^BB
@HWI-EAS443:3:8:1373:670#0/1
AGCAGAGCTACAGGACATTGAAAATGAAGAGAAGATCCCA
+HWI-EAS443:3:8:1373:670#0/1
aaaababaab^aaa```aba`````aa`Sb```_`__^ZZW_
@HWI-EAS443:3:8:1442:1202#0/1
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+HWI-EAS443:3:8:1442:1202#0/1
``a]`¥bb¥¥X^Raab^`TQ^aa^Y^a¥XYF^`GZ_]¥_a
@HWI-EAS443:3:8:1527:1155#0/1
CGTCTCCACAACCTTGAGGGGTTTTCGGCTGAATCGAGAAA
+HWI-EAS443:3:8:1527:1155#0/1
^_]bb`aWVab`bbbbabb_abaa¥_a]abbabZaaa[aW
@HWI-EAS443:3:8:1559:1637#0/1
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+HWI-EAS443:3:8:1559:1637#0/1
a`Q`^Y]_[`]`bXaS__]W]FX_TO`^aUPX`V[JF[___
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+HWI-EAS443:3:8:1576:837#0/1
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@HWI-EAS443:3:8:1595:300#0/1
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+HWI-EAS443:3:8:1595:300#0/1
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+HWI-EAS443:3:8:1614:515#0/1
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+HWI-EAS443:3:8:1620:1265#0/1
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+HWI-EAS443:3:8:1639:237#0/1
`bbbabbba_bababbaaa`aaa^b]a__a¥aYYaa__a_
@HWI-EAS443:3:8:1660:1878#0/1
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+HWI-EAS443:3:8:1660:1878#0/1
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@HWI-EAS443:3:8:1683:1537#0/1
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+HWI-EAS443:3:8:1683:1537#0/1
aba]b_X]a`]abXa^a_b`G_S_]¥b^¥FJ^`Z[aNBB
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+HWI-EAS443:3:8:1721:1944#0/1
a¥FZb]OX`_[a]_aSaWaa]aa__V^`aaSJ¥Ta_^Y_
@HWI-EAS443:3:8:199:372#0/1
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+HWI-EAS443:3:8:199:372#0/1
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+HWI-EAS443:3:8:257:802#0/1
GZW_aY[_XUXT00`X`[_]URS^`^R_U][MZ¥RTXY
@HWI-EAS443:3:8:258:368#0/1
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+HWI-EAS443:3:8:258:368#0/1
a`¥`baabaZ¥a`aa`aa_a_a``_¥_a[M_`Va¥`W__
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+HWI-EAS443:3:8:259:472#0/1
aa`aa``_`aa```_`aa___`aa]^a_`_]Z^^_XX^
@HWI-EAS443:3:8:275:278#0/1
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+HWI-EAS443:3:8:275:278#0/1
aaaaaaaa¥aa_a__`aa_aaa]_a`_a_]a`Va_]_]_]_]`
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+HWI-EAS443:3:8:293:125#0/1
aa_]aaaaaab^a`a^aaaa_a_a¥`_]`_a^_a`¥QZ_
@HWI-EAS443:3:8:349:456#0/1
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+HWI-EAS443:3:8:349:456#0/1
^R¥QW]VZQVMYRQVZRX^J[S]V^TUVQQ[R_¥_^W¥_¥
@HWI-EAS443:3:8:357:1776#0/1
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+HWI-EAS443:3:8:357:1776#0/1
`ab[babbaaba^bbbZZ¥^b_`aaHbb^a^`^`Z^WXaa

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+HWI-EAS443:3:8:454:240#0/1
aa`^X]a``]aa_____a`Z`[_`¥`U_YW^^¥VW^¥Y^^
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+HWI-EAS443:3:8:469:1180#0/1
`abaaUU`aa__[P]`_`Z^]X__^UQZ]RIKN]_X¥`N
@HWI-EAS443:3:8:470:427#0/1
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+HWI-EAS443:3:8:470:427#0/1
_V`Wab^S^]`[]a`a`UYa`aa__a]¥`a^NN_[¥Y``Y
@HWI-EAS443:3:8:623:32#0/1
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+HWI-EAS443:3:8:623:32#0/1
aa^Xa]_a`a`¥`____`_a`^WWV]__]^`Z^Z^YY_ZZ_
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+HWI-EAS443:3:8:669:1448#0/1
`aba`b]^X^YX^¥V¥_YL^¥T[PX[aYZ^U`W^a__ZG
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+HWI-EAS443:3:8:68:846#0/1
K_ab_]Y]bba[^[[[[ZU[[`baW[[YZ[]W^TTWDMP[
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GAAGACATTCTTTGGCTGGAAAGAGCCTAACATAGTCAAA
+HWI-EAS443:3:8:703:491#0/1
a_T`a`baaabaaaa`aab_aaa_aV^aSa^_¥`a]``a_
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+HWI-EAS443:3:8:718:1685#0/1
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+HWI-EAS443:3:8:755:1713#0/1
abb`aba_Uaa`aa`abaaba`a_a_a```a[]TKW_a
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+HWI-EAS443:3:8:78:540#0/1
a_a[`X¥^TGYWU]]_aaa`]X¥M¥^ZYRVU^QYWQOVVZ
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+HWI-EAS443:3:8:820:1915#0/1
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`TaaaX_W^```a`__[^`^__^^Z^_]X_]`Y]^UB
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+HWI-EAS443:3:8:903:907#0/1
a]aa^`_ZVY`a]U_Y¥`_]IZaXV[Ua^a]a^aa_Y`¥]_
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+HWI-EAS443:3:8:972:955#0/1
aaa_aaaaaaab`_`aa`_W`¥a`¥_W_W^`Y]_¥¥^]`^
@HWI-EAS443:3:8:974:1862#0/1
GGCATGGAAATGAGGCGCTGCCTTCTTCAGTCTCTTCAGC
+HWI-EAS443:3:8:974:1862#0/1
`aKaYZSaaaa`aZ_]ZQWaaU_Y__`^]XMM¥H¥ZaYZU
@HWI-EAS443:3:90:1041:789#0/1
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+HWI-EAS443:3:90:1041:789#0/1
aa`U_Q[Za`ba`b^aZ[]__bb`a`Y`aUab_aY``a¥
@HWI-EAS443:3:90:1104:1153#0/1
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+HWI-EAS443:3:90:1104:1153#0/1
aaTU^a`b`¥]`aaa`b`[a`a_aa``a`a_YaQa_[QYG
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+HWI-EAS443:3:90:1133:462#0/1
aaa`bbaabaaaba[`_aa``a`_`¥__``aZa_Y`____
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+HWI-EAS443:3:90:1158:212#0/1
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@HWI-EAS443:3:90:1211:131#0/1
GAAAATGAAGAGAAGATCCCAAGGACAAAGAACATGAAGA
+HWI-EAS443:3:90:1211:131#0/1
a__^^`a__a^`¥^^`_W]Z]]a]ZZ^Z^`]]XZ]]XZ]Z
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+HWI-EAS443:3:90:1213:1237#0/1
``_aa¥aba^a`bba^b__`a`_Y]]`a]ba`ba0`aa_¥
@HWI-EAS443:3:90:1219:338#0/1
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+HWI-EAS443:3:90:1219:338#0/1
a^Z`__a`_¥SN¥_TZ`_RVXYZMT^¥_QZ]N]TJ[¥PX¥
@HWI-EAS443:3:90:1256:1167#0/1
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+HWI-EAS443:3:90:1256:1167#0/1
abaaabbabbbaabbbbabbaaaaaa^`^`aaVX`[_`aa
@HWI-EAS443:3:90:1278:683#0/1
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+HWI-EAS443:3:90:1278:683#0/1
a`^aaaaa_a_YY]U_N[[U_Y¥`VQYZ]US_`^`[_QW_
@HWI-EAS443:3:90:1288:1114#0/1
AAGAGACCGAATCATGGCCTGGACAGTGGTGAACAGTATA
+HWI-EAS443:3:90:1288:1114#0/1
Z_X``¥a[aa``]IT__Z]aa``_aa^a_T_XZNZ_¥`¥`

@HWI-EAS443:3:90:1322:1406#0/1
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``b¥a_babba__MU`a[aVabb]baaa[aaa_¥baa`_
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+HWI-EAS443:3:90:1380:454#0/1
aaaaabababaaaaa^^a`abbSa_`a¥^QaUa``aa¥a`
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+HWI-EAS443:3:90:1398:1144#0/1
a`baabbaaaaa`a`_b`aa_[aa¥`a_aa¥¥a¥_`_]__N
@HWI-EAS443:3:90:1421:1597#0/1
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+HWI-EAS443:3:90:1421:1597#0/1
`bbWWWZ]abU`bbbaba`abYVa_``b_b```L]ZY[ba
@HWI-EAS443:3:90:144:375#0/1
ACCAGAAAAAGTAGACTTTGATGACTGCAAAGATGTTGGA
+HWI-EAS443:3:90:144:375#0/1
V_`[aYXVY^_GX`^Y__[Y[_a¥]_`_PW_`[V`W^]S]
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+HWI-EAS443:3:90:146:1114#0/1
^U`Z``_`Y¥bQ`Ub[]][baaT``aSI_aaZ[X^baWUG
@HWI-EAS443:3:90:1543:342#0/1
TGGGCCTCGACACTTGGCCTATCGCAGTCCCTCAAGAGCAT
+HWI-EAS443:3:90:1543:342#0/1
a_WIR_aa_XQ_VbW^¥^Q^aa`bU`^Ra_R__aaa¥a^
@HWI-EAS443:3:90:154:1844#0/1
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@HWI-EAS443:3:90:1563:676#0/1
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+HWI-EAS443:3:90:1563:676#0/1
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@HWI-EAS443:3:90:1572:1173#0/1
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+HWI-EAS443:3:90:1572:1173#0/1
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@HWI-EAS443:3:90:1616:31#0/1
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+HWI-EAS443:3:90:1616:31#0/1
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@HWI-EAS443:3:90:1666:1012#0/1
ACACCCTTGACGAAGAGAGCAGGGCAAGAATCAAACTAG
+HWI-EAS443:3:90:1666:1012#0/1
¥W`_RWa_U_Y¥`bb_`Z`a[a[YYZa`aadW]X[Z[_aa
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+HWI-EAS443:3:90:1693:64#0/1
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+HWI-EAS443:3:90:1709:1921#0/1
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@HWI-EAS443:3:90:199:1145#0/1
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+HWI-EAS443:3:90:199:1145#0/1
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@HWI-EAS443:3:90:289:1543#0/1
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+HWI-EAS443:3:90:289:1543#0/1
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@HWI-EAS443:3:90:362:1893#0/1
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+HWI-EAS443:3:90:362:1893#0/1
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@HWI-EAS443:3:90:373:17#0/1
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+HWI-EAS443:3:90:373:17#0/1
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+HWI-EAS443:3:90:498:310#0/1
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+HWI-EAS443:3:90:598:1169#0/1
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@HWI-EAS443:3:90:661:657#0/1
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+HWI-EAS443:3:90:661:657#0/1
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+HWI-EAS443:3:90:663:1736#0/1
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+HWI-EAS443:3:90:757:1927#0/1
a`_bbbb`[_YVab_aaaaab_T`__a_Y^]]aa_Z]b]V
@HWI-EAS443:3:90:832:1285#0/1
AGGACATTGAAAATGAAGAGAAGATCCCAAGGACAAAGAA
+HWI-EAS443:3:90:832:1285#0/1
`b_baa_[`¥QWXab_`U^a_¥_¥¥^Waa`R_]aXa``_
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GTTTCCGATTTGTTTTCAAAGAATTCCTTGGTCATGTCTT
+HWI-EAS443:3:90:846:354#0/1
`Y]a^_]W`___R_`_¥¥X`TT_YY[^¥¥]V`W^`VV[`
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+HWI-EAS443:3:90:855:1447#0/1
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+HWI-EAS443:3:90:863:1739#0/1
ab_a`bbbaabbabb`bbbbbaa^abbaba`aaa__a_a
@HWI-EAS443:3:90:88:984#0/1
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+HWI-EAS443:3:90:88:984#0/1
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+HWI-EAS443:3:90:929:998#0/1
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+HWI-EAS443:3:90:932:71#0/1
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@HWI-EAS443:3:90:937:477#0/1
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+HWI-EAS443:3:90:937:477#0/1
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+HWI-EAS443:3:90:984:1956#0/1
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+HWI-EAS443:3:90:988:68#0/1
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@HWI-EAS443:3:91:1008:1033#0/1
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+HWI-EAS443:3:91:1008:1033#0/1
`b_T^bVbb_XZbbb_ZV_abaa`ba`bbba_aa`Yaa
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+HWI-EAS443:3:91:1009:802#0/1
aWa[¥[Z^YIXP¥_] ^XWW]TONWV^WUW_]X]_GGZ]QO
@HWI-EAS443:3:91:1165:472#0/1
GGGGGCTATATGAAGCAATCGAGGAGTGCCTGATTAATGA
+HWI-EAS443:3:91:1165:472#0/1
a]_[Z_¥T^[[Z_¥P`^VU^[[^YYV[RZ^`YY^]]][UY
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+HWI-EAS443:3:91:1219:553#0/1
][[¥^XaZ¥R_RRU^YWTW^VWZN[¥¥WNXSQ¥NU¥USWU
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+HWI-EAS443:3:91:132:1500#0/1
a¥UZaYaa_aa__a`a`a`^`a`_^`_`_^_X_] ^V^]
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K`bbaaaaa_abb]_bbbbbabbb`babbb`ba¥baba
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+HWI-EAS443:3:91:1519:1626#0/1
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aa_^_]WF_`^`a¥^¥_a^[a_] ^Y`a`SOXUM_Z^
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+HWI-EAS443:3:91:1700:1213#0/1
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aa¥a^a¥^U_^aa^OYPRY__YUM^Z]_[GP]H]OZRORO
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+HWI-EAS443:3:91:206:423#0/1
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`^_`aaS___`P`LTYVXXDRZPN]U___^TXY]¥]YT^U
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+HWI-EAS443:3:91:345:666#0/1
a^^aa`P]¥`U_`ZT_Y¥a_]X`Z[]`U]`R_X[_YU¥Y
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+HWI-EAS443:3:91:377:23#0/1
abb¥a]aaaa]``aaaa`Wa^_`_¥[_P[a_[]¥W]_ZZ_S
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+HWI-EAS443:3:91:459:1522#0/1
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+HWI-EAS443:3:91:464:336#0/1
OXaa¥]¥¥a__Xabb[``_Xa_`b`babbb^[bb`[_Z_
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+HWI-EAS443:3:91:492:827#0/1
I_`abbbabb`ababVba`¥_a`baabb]aba^abba
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+HWI-EAS443:3:91:543:1163#0/1
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+HWI-EAS443:3:91:649:1297#0/1
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+HWI-EAS443:3:91:668:443#0/1
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+HWI-EAS443:3:91:696:2005#0/1
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+HWI-EAS443:3:91:764:1976#0/1
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+HWI-EAS443:3:91:811:216#0/1
aa[[_^_]X]_TS¥`^]V_aXX`YX]^X]_]UUR]X]YX
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+HWI-EAS443:3:91:844:512#0/1
V¥bb_Q[b`_bZ_aWZUab¥¥_bab`baH_abSaab`aa
@HWI-EAS443:3:91:849:1525#0/1
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+HWI-EAS443:3:91:849:1525#0/1
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+HWI-EAS443:3:91:977:520#0/1
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+HWI-EAS443:3:91:979:1452#0/1
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+HWI-EAS443:3:91:997:1413#0/1
_¥a__aa`_aaa__¥aaaab`bb`a`aab^a`bbab]_a`
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+HWI-EAS443:3:92:1103:1033#0/1
a`a`aa`a`_aa`[_^^]a¥]_Y`_]___`^___]Y
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+HWI-EAS443:3:92:1175:822#0/1
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+HWI-EAS443:3:92:1268:618#0/1
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+HWI-EAS443:3:92:127:533#0/1
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@HWI-EAS443:3:92:1352:1239#0/1
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+HWI-EAS443:3:92:1402:1247#0/1
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+HWI-EAS443:3:92:141:1899#0/1
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+HWI-EAS443:3:92:1440:1082#0/1
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@HWI-EAS443:3:92:1468:118#0/1
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+HWI-EAS443:3:92:1468:118#0/1
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+HWI-EAS443:3:92:1484:1114#0/1
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+HWI-EAS443:3:92:1719:582#0/1
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+HWI-EAS443:3:92:1728:933#0/1
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+HWI-EAS443:3:92:1745:1240#0/1
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@HWI-EAS443:3:92:327:1640#0/1
CGGGGTGAATCAATAATTGTAGAATCTGGTGACCCGAATG
+HWI-EAS443:3:92:327:1640#0/1
a^`^`]`^`bbbbbbbabaaaabababaaa_aabaaaaa_`
@HWI-EAS443:3:92:335:1085#0/1
ATTCGGATTTCCATTTTCATCGACGAACGGGGTGAATCAAT
+HWI-EAS443:3:92:335:1085#0/1
^`b```JVZZ``]`aa_¥`aab`aa[^`aa0a`aa__a
@HWI-EAS443:3:92:341:192#0/1
ATCTTGATCTTGGAGGTTCCATTGGTTCTCACATATAGGA

+HWI-EAS443:3:92:341:192#0/1
`babababaaaba`aa[aa`a`aa]__`_`Z`_`__^¥_]`
@HWI-EAS443:3:92:397:1448#0/1
CAAAGAAGGAAGACGGAAAACAAACCTGTATGGGTTTCATT
+HWI-EAS443:3:92:397:1448#0/1
YJPM_TY]ZWZZ¥]^`¥Z_VLJRP¥XQSZ[[VIZNOMS]]
@HWI-EAS443:3:92:440:120#0/1
GCTCTATTGGGAAAGTGTGCAGGACCTTACTGGCAAAATC
+HWI-EAS443:3:92:440:120#0/1
aaa_aX`aaba¥[aa]a]a```_^^^_^^]ZZ]^`_`^^R
@HWI-EAS443:3:92:476:387#0/1
CATCGACGAACGGGTGAATCAATAATTGTAGAATCTGGT
+HWI-EAS443:3:92:476:387#0/1
``a¥¥_]^[^SJ_a^][b_Z]Za]`UN[[_T`a_`YQY_`V
@HWI-EAS443:3:92:492:1280#0/1
GGGTTTTCGGCTGAATCGAGAAAATTGCTTCTCATTGTTC
+HWI-EAS443:3:92:492:1280#0/1
_bb^babb_abaabb`K`_bbabaaba^a`_a_baaaa_a
@HWI-EAS443:3:92:554:1220#0/1
AGCAGGTGCTAGCAGAGCTACAGGACATTGAAAATGAAGA
+HWI-EAS443:3:92:554:1220#0/1
a]aRY]_]a]a]a^MXaS_Y_`_aV]]^`_`^^^¥]^`¥^
@HWI-EAS443:3:92:633:928#0/1
ACGCCAAAATTGAACCATTCTTGAGGACGACACCACGCC
+HWI-EAS443:3:92:633:928#0/1
ab`H[Wa]_`^`a_aVYZaaa`I]^`_`^aVW¥_Qa_N¥_N
@HWI-EAS443:3:92:640:670#0/1
TCCACAACCTTGAGGGTTTTCGGCTGAATCGAGAAAATTG
+HWI-EAS443:3:92:640:670#0/1
abaa`)]`_baa_a`aa]`]HZ[`^aaa]_a__a`X`^`_`_`
@HWI-EAS443:3:92:663:874#0/1
AGAACACAGTATTTTTCCCATTGTGTGGCTCCAGTCTCG
+HWI-EAS443:3:92:663:874#0/1
``^baa_ba_aaaa`aa`_aaaa_a`aa`a_aS`¥¥ZS^
@HWI-EAS443:3:92:668:917#0/1
AGAATTCCTTGGTCATGTCTTTCTTTGACAGAAGACTC
+HWI-EAS443:3:92:668:917#0/1
^VGRYaSa_]b]ZQ_]^R]PXZ[`¥]a`aI]]^`_aY_^^^
@HWI-EAS443:3:92:775:477#0/1
TTCCGATTTGTTTTCAAAGAATTCCTTGGTCATGTCTTTC
+HWI-EAS443:3:92:775:477#0/1
ab_ab`abab`aaaa`a`)]aa`_`aaa^`_`aa__a`_`_`
@HWI-EAS443:3:92:815:284#0/1
ATGGCTTGAAGCAGGTGCTAGCAGAGCTACAGGACATTG
+HWI-EAS443:3:92:815:284#0/1
aaaaaba^_V]`¥``¥FZQRY_T¥_]NT[P[``ZVS^]P
@HWI-EAS443:3:92:845:678#0/1
GACGAAAGGAATCCCATAGACTCCTACTGGCCATTTCTTG
+HWI-EAS443:3:92:845:678#0/1
ab`b]aXbXWJ`aU`_a¥a¥Y[a_ZLY_a_]__^MY`Z

@HWI-EAS443:3:92:897:130#0/1
ATTCAACAGTCTATATGCGTCTCCACAACCTTGAGGGGTTT
+HWI-EAS443:3:92:897:130#0/1
abbaba`ab`abaaaba`a````_a]_`_baa_aaaaX`_
@HWI-EAS443:3:92:925:1219#0/1
TATGTATTACAGTAGCCCTGCAGTGGGACACTTCTGCTGTA
+HWI-EAS443:3:92:925:1219#0/1
aaab[aaaaaa__X`a`___`[^__]W]]`____]a_]_
@HWI-EAS443:3:92:950:1980#0/1
TGGGATTTATGCCTTTCTCATGTGGTTTGACTATGTTAGG
+HWI-EAS443:3:92:950:1980#0/1
abaaa_Z_b`aa`aaa_aaa__aa^`_aa`a__`]_a^G
@HWI-EAS443:3:92:961:1201#0/1
CGTCTCCACAACCTTGAGGGGTTTTCGGCTGAATCGAGAAA
+HWI-EAS443:3:92:961:1201#0/1
[_aba`b]a`aab_b^]abaYa`aa^]`bab_`^a]a_Q]
@HWI-EAS443:3:92:978:895#0/1
AAGAATTCCTTGGTCATGTCTTTCTCTTTGACAGAAGACT
+HWI-EAS443:3:92:978:895#0/1
aaa`a_^`aaaa^aaaa]a`aa```_`a__`a__`_Z]
@HWI-EAS443:3:93:1000:1017#0/1
GAGTCTATGGGATTCCTTTTCGTCAGTCCGAAAGAGGCGAA
+HWI-EAS443:3:93:1000:1017#0/1
aZb__aa¥_¥^Ia`_^`PaZ_Y[F^_R_^^^PS^[N^
@HWI-EAS443:3:93:1039:1622#0/1
GGGATCTTCTTTCATTTTCAATGTCCTGTAGCTCTGCTA
+HWI-EAS443:3:93:1039:1622#0/1
aa_Ra_aaa`_aa_a^___`a_a`R_]a`^_a^a`^]____
@HWI-EAS443:3:93:1055:394#0/1
AGTGTACATAAATACGGCCTTGCTCAATGCATCCTGTGCA
+HWI-EAS443:3:93:1055:394#0/1
ab^^`abbabaaaa`][a__`aaY__aa¥aa¥¥`aV`Ra
@HWI-EAS443:3:93:1081:1091#0/1
TTCATTTTCAATGTCCTGTAGCTCTGCTAGCACCTGCTTC
+HWI-EAS443:3:93:1081:1091#0/1
a]baa_bbb]aa[aZaa_a]aa[_RUQa]V[HZ`GZYB
@HWI-EAS443:3:93:1111:1530#0/1
GTGCCATATTTTACCGAGTGGCCACTTCAATTGGCTTGT
+HWI-EAS443:3:93:1111:1530#0/1
R¥Qaabaaaa`b`X`aPa^`a^^UT[[][VYZ]]XZ
@HWI-EAS443:3:93:1148:628#0/1
GGGGCTATATGAAGCAATCGAGGAGTGCCTGATTAATGAT
+HWI-EAS443:3:93:1148:628#0/1
_NNT]VR^P^a]Y[^`¥QV_QZNR`PHSN¥QW^`Z_]_U^
@HWI-EAS443:3:93:1327:666#0/1
GTTCCATTGGTTCTCACATATAGGAACATGGGCCTCGACA
+HWI-EAS443:3:93:1327:666#0/1
a¥^VY_T[aaP]^]U`GU]``_U_ZZJXTLMT00YJTBBB
@HWI-EAS443:3:93:1364:1761#0/1
AATGGAAATCCGAATACATGAAACAAACTTCCAAATGTGT

@HWI-EAS443:3:93:399:798#0/1
AGTCATCAAAGTCTACTTTTTCTGGTGCCATATTTTCACC
+HWI-EAS443:3:93:399:798#0/1
aa_aaaaWTV]_a_SZaa`a`aaa^U`Wa``_``___`]S
@HWI-EAS443:3:93:411:454#0/1
GACTTTGGTCGGCAAGCTTGCGCATAGTTCCTGTAATCTC
+HWI-EAS443:3:93:411:454#0/1
aa^`]a`WW_^__`]_`^]_[`_`_X_W_YUZ`TXXZW]X
@HWI-EAS443:3:93:426:336#0/1
GTTCAATCGGGCAACATCTTCTCCTATTTTCATCAAGTTC
+HWI-EAS443:3:93:426:336#0/1
a_``[¥Z___`__]Z]__[___^^W^]__]]^_]Y^Z
@HWI-EAS443:3:93:443:1158#0/1
GAAGAAATTTAGGCTTCTTACCCCTGTTGTGTTACATAT
+HWI-EAS443:3:93:443:1158#0/1
a^^aZaabaaaaYaa^aa`^_aa`]Y`aY_`^`_Z_`^_
@HWI-EAS443:3:93:490:101#0/1
GGCTGGAGAAGTTCGGTGGGAGACTTTGGTCGGCAAGCTT
+HWI-EAS443:3:93:490:101#0/1
aa_aaa_a`b^a¥abZa`aY^W^¥_`]WWSYTYWUPUB
@HWI-EAS443:3:93:496:1946#0/1
GATTGGTCTCTTCCCTTCAATTATCTCAAATCGGTGCTTC
+HWI-EAS443:3:93:496:1946#0/1
W^ZX¥a¥`]_X^`bb^a^`a^^a`¥_`_^b¥Zb[HZ^_]Y
@HWI-EAS443:3:93:563:484#0/1
ATGGAGTTCTCACTCACTGACCCGAGACTGGAGCCACACA
+HWI-EAS443:3:93:563:484#0/1
^Y[a`_]a^_]_]^]Yaaaa`a`a`a_aaaa_a[[`Y¥XX
@HWI-EAS443:3:93:635:1638#0/1
CATGAAATGAGGCGCTGCCTTCTTCTCAGTCTTTCAGCAG
+HWI-EAS443:3:93:635:1638#0/1
abab_baba`bb[aab_baaaaaaaaa`^_a`a`Za_N^a
@HWI-EAS443:3:93:67:120#0/1
GCCGTATTTATGTACTCCCTTATTATTATTATTAGTAG
+HWI-EAS443:3:93:67:120#0/1
a^a`L_bZP^aa_`a¥___Y_[^U^[[^_V^^^UZ][RB
@HWI-EAS443:3:93:680:38#0/1
CATTAATCAGGCACTCCTCGATTGCTTCATATAGCCCCC
+HWI-EAS443:3:93:680:38#0/1
[aSXaa`a]aU]a[]^SXYaZQ[a__`Z_^]_a__¥[N[`
@HWI-EAS443:3:93:715:863#0/1
CAATTTCAATGAACCGTTCTTTGTAATCATACAAATC
+HWI-EAS443:3:93:715:863#0/1
a`¥baaabaaaa`a`aa`aaaaaaaa_aa^_aaa_`]`^_
@HWI-EAS443:3:93:730:942#0/1
CATATTTTACCGAGTGCCCACTTCAATTGGCTTGTCTC
+HWI-EAS443:3:93:730:942#0/1
abaabbaa`bbaa_a^a_`a`aaa````^]_aa[]^0^^
@HWI-EAS443:3:93:739:473#0/1
GGCATGAAATGAGGCGCTGCCTTCTTCTCAGTCTTTCAGC

+HWI-EAS443:3:93:739:473#0/1
aVa`H_ZVXT[aXY¥_a[_MN¥V`Y]^FHHZXa__¥_ZHU
@HWI-EAS443:3:93:820:1011#0/1
CGTGTTACTCCAATTTCAATGAACCGTTCTCTTTGTAAT
+HWI-EAS443:3:93:820:1011#0/1
ab_aa_baaaab^aaaaa`aaa`a`[``]``a`a`a__^a
@HWI-EAS443:3:93:829:1484#0/1
AGGACATTGAAAATGAAGAGAAGATCCCAAGGACAAAGAA
+HWI-EAS443:3:93:829:1484#0/1
_aaYa`ba`aababb__bba`aaa`a`a_b`aaa__a`
@HWI-EAS443:3:93:865:578#0/1
CGAAAATCGAAACTAACAAGTTTGCTGCAATATGCACACA
+HWI-EAS443:3:93:865:578#0/1
a`aba[]`a_a`_aaa`a`aZ`a___a`_a_a`¥_]_]Z
@HWI-EAS443:3:93:902:1330#0/1
ATGCGCAAGCTTGCCGACCAAAGTCTCCCACCGAACTTCT
+HWI-EAS443:3:93:902:1330#0/1
`aabaa_`a¥^`_aaa^`Z]`¥Y]_Y]_¥a_^^¥^¥S_
@HWI-EAS443:3:93:937:345#0/1
GGCCAGTAGGAGTCTATGGGATTCCTTTTCGTCAGTCCGAA
+HWI-EAS443:3:93:937:345#0/1
¥_aabbabbbbaa_abbaabbab`bbbXaaXa`a`G][`
@HWI-EAS443:3:93:942:110#0/1
CAACTTGAGGGTTTTTCGGCTGAATCGAGAAAATTGCTTC
+HWI-EAS443:3:93:942:110#0/1
aaa`abbabaa_[aba[^b_aaaa__a_a]Xa]_a`T]___
@HWI-EAS443:3:93:978:139#0/1
CTTGGGGGGCTATATGAAGCAATCGAGGAGTGCCTGATTA
+HWI-EAS443:3:93:978:139#0/1
`_aaabbababbabb`ab`bbbaa`b[aa]a[Sab¥`^a
@HWI-EAS443:3:94:1117:413#0/1
GGGCACTCGGTGAAAATATGGCACCAGAAAAAGTAGACTT
+HWI-EAS443:3:94:1117:413#0/1
aa__^__`aVa]Xa`_^`a]Z_ZW_`Z`_^^aW_^^RX`
@HWI-EAS443:3:94:1184:1411#0/1
ATGAAACAAACTTCCAAATGTGTGCATATTGCAGCAAAC
+HWI-EAS443:3:94:1184:1411#0/1
abb`ab¥_bbab`aa`ba`[aaaaaa_Yb_¥a__^a
@HWI-EAS443:3:94:1216:363#0/1
GTGAACTTTGTAAGTATGGAGTTCTCACTCACTGACCCGA
+HWI-EAS443:3:94:1216:363#0/1
a_aMQVb`ab_a]b^aaa_^a¥a¥_¥]¥aU_W_`YN¥_¥
@HWI-EAS443:3:94:1412:217#0/1
AGAATTCCTTGGTCATGTCTTTCTCTTTGACAGAAGACTC
+HWI-EAS443:3:94:1412:217#0/1
abaV`_Q¥aba]TIbaab_abb]`Zaa]aOIXa[`_^U^X
@HWI-EAS443:3:94:1421:734#0/1
AGATCCCAAGGACAAAGAACATGAAGAGAACAAGCCAATT
+HWI-EAS443:3:94:1421:734#0/1
a^^^^]aUV]`PJPY¥SUa^a¥Y]aa`]VU¥^¥_YGSRA^G

@HWI-EAS443:3:94:1502:1586#0/1
ATCTTCTCCTATTTTCATCAAGTTCTATCCAGCTTGAATCA
+HWI-EAS443:3:94:1502:1586#0/1
ab^ab`ababbbaaba`_b`a¥b__ba_^a]XWaa`aa^b
@HWI-EAS443:3:94:1507:336#0/1
GAGGCGAAGAGACAATTGAAGAAAAATTTGAGATTACAGG
+HWI-EAS443:3:94:1507:336#0/1
¥[ba^aa^a`b`^`^`a¥XYaaba`_a_aa_^`__`Z`_`_`
@HWI-EAS443:3:94:1508:557#0/1
AAGAATTCCTTGGTCATGTCTTTCTCTTTGACAGAAGACT
+HWI-EAS443:3:94:1508:557#0/1
``b`I`abJaaa`_aaaa`b¥a`SSa```SR`__]a__^
@HWI-EAS443:3:94:154:427#0/1
ATCAGGCACTCCTCGATTGCTTCATATAGCCCCCAAGAT
+HWI-EAS443:3:94:154:427#0/1
aaa_]`^`aa`a`a_aa_[SYa`a``_`XR`Y^Y`Z^ZZXW
@HWI-EAS443:3:94:1597:1024#0/1
CGAAAATCGAAACTAACAAGTTTGCTGCAATATGCACACA
+HWI-EAS443:3:94:1597:1024#0/1
aabbabba_a``Ybb`]aaV^`aXJZaRV^a^adM]_X]`
@HWI-EAS443:3:94:1642:800#0/1
GGGAGACTTTGGTCGGCAAGCTTGCGCATAGTTCCTGTAA
+HWI-EAS443:3:94:1642:800#0/1
a_a`a`_baa`a^^_[a]^`[^a`R`)]`^a^a_Z`aXX]
@HWI-EAS443:3:94:178:1050#0/1
GATTTGTTTTCAAAGAATTCCTTGGTCATGTCTTTCTCTT
+HWI-EAS443:3:94:178:1050#0/1
a[_^ab`_X_a_[`]J^_]___^ZZ_]¥_XY¥]]^]U^^
@HWI-EAS443:3:94:23:340#0/1
AAAGAGCCTAACATAGTCAAACCACATGAGAAAGGCATAA
+HWI-EAS443:3:94:23:340#0/1
ab]`Wb`a]`a¥TJYaX]Tb^UQZ_b[[¥N]¥^_a0^_Z[
@HWI-EAS443:3:94:258:340#0/1
CTGTTGTGTTACATATACTGTTCACTGTCCAGGCCAT
+HWI-EAS443:3:94:258:340#0/1
abaabbabaabababbbabbabbaabbaaaa__aba`Z``
@HWI-EAS443:3:94:277:1304#0/1
GACGAAAGGAATCCCATAGACTCCTACTGGCCATTTCTTG
+HWI-EAS443:3:94:277:1304#0/1
aaa`aa`aaa[aa_¥abaaaa`_`_`ZY___]ZX_W^ZZ
@HWI-EAS443:3:94:302:65#0/1
TCCGAAAATCGAAACTAACAAGTTTGCTGCAATATGCACA
+HWI-EAS443:3:94:302:65#0/1
``]b`^b^]Ya^^YY`_Y__WaYa`__a_]`^Y`[]]¥
@HWI-EAS443:3:94:361:131#0/1
CTCTAGCAAGCTGGGTCCAAAATGAATTCAATAAGGCATG
+HWI-EAS443:3:94:361:131#0/1
aVb^S_Y_Q`XXQPJ]OF]_Y¥_a^__[^QF^]U^MUQ`]
@HWI-EAS443:3:94:378:18#0/1
ACCGAACTTCTCCAGCCTTGAAAACCTTAGAGCCTATGTA

+HWI-EAS443:3:94:378:18#0/1
aa]b)`Q_aab``_`_Ua`b]a`_U_a``a_aY_`__a[_
@HWI-EAS443:3:94:447:729#0/1
GGGGCATGGAAATGAGGCGCTGCCTTCTTCAGTCTCTTCA
+HWI-EAS443:3:94:447:729#0/1
a`¥`]aaa`_a`a`____^_^^¥YQX][¥¥SOZ^¥_UU
@HWI-EAS443:3:94:52:1670#0/1
GGGGAAGATCCGAAAATCGAACTAACAAAGTTTGCTGCAA
+HWI-EAS443:3:94:52:1670#0/1
V_P_``bbabbb`bbaba_`baa_b`^a`_]aaaa_ba
@HWI-EAS443:3:94:535:1897#0/1
GACCGAATCATGGCCTGGACAGTGGTGAACAGTATATGTA
+HWI-EAS443:3:94:535:1897#0/1
O_bbabbababbabab_a^_abab_XbabbbaYbbba[[b
@HWI-EAS443:3:94:562:414#0/1
CATAAATACGGCCTTGCTCAATGCATCCTGTGCAGCCATG
+HWI-EAS443:3:94:562:414#0/1
SZbbbb¥¥bbba`_a`abb]bVbaaabbQ_]`ba¥aab
@HWI-EAS443:3:94:572:1717#0/1
GAACCTTGTAAAGTATGGAGTTCTCACTCACTGACCCGAGA
+HWI-EAS443:3:94:572:1717#0/1
a]abaaaa[bb]]a_aaba`aaaaaaaa`aaaa`a_aaaa
@HWI-EAS443:3:94:589:2036#0/1
TTCTGCTGTAAAATAGTTCCTCCTCATGCTTGGCATATGT
+HWI-EAS443:3:94:589:2036#0/1
`W`WZW`bYYabYSYXUT_a`b_RV^^`WXU_`[PVW]P
@HWI-EAS443:3:94:591:314#0/1
ATCCTGTGCAGCCATGGATGACTTTCAGCTGATCCCAATG
+HWI-EAS443:3:94:591:314#0/1
`Z`a]_Y_S]LQPW]X]___¥`¥_[Z^WZZWZ[^Y_^¥`
@HWI-EAS443:3:94:639:1188#0/1
GGGGTTTTCGGCTGAATCGAGAAAATTGCTTCTCATTGTT
+HWI-EAS443:3:94:639:1188#0/1
ab`a¥aaa`MaaZP^YS[``^a`a_^__`_¥^a``_`_`
@HWI-EAS443:3:94:669:1606#0/1
AAGAGCCTAACATAGTCAAACCACATGAGAAAGGCATAAA
+HWI-EAS443:3:94:669:1606#0/1
_a^a`aaaa`a_a_aa]Z]`aa``aaaa`__`_a_a^`
@HWI-EAS443:3:94:707:1253#0/1
GATCTTGGAGGTTCCATTGGTTCTCACATATAGGAACATG
+HWI-EAS443:3:94:707:1253#0/1
a____]aaaSbQP¥^`¥a¥^^^_]TZ_`[[`OFM_^U]T¥
@HWI-EAS443:3:94:783:635#0/1
GTATATGTAACACAACAGGGGTAGAGAAGCCTAAATTTCT
+HWI-EAS443:3:94:783:635#0/1
a^aaaab`aaaaaaaa_aaaa^`a_aa`a__``_``^`
@HWI-EAS443:3:94:822:1270#0/1
TAGCCCCCAAGATCGAAGGTTCCAGGTTCCAGGTTGTCC
+HWI-EAS443:3:94:822:1270#0/1
L_VX]_b_`__X¥]^`TT[TZWVRXQJMFYSY[YG^_VDX

@HWI-EAS443:3:94:825:1797#0/1
GGGGGCTATATGAAGCAATCGAGGAGTGCCTGATTAATGA
+HWI-EAS443:3:94:825:1797#0/1
^aabaaaabbababbabaaaaaba]a_aa]aaa`a`a_aa
@HWI-EAS443:3:94:870:1817#0/1
GGTGACCCGAATGCACTATTGAAGCACCGATTTGAGATAA
+HWI-EAS443:3:94:870:1817#0/1
`aXab]bbba` `aabbababaabaa__ba`aaa_a`Zaa
@HWI-EAS443:3:94:898:177#0/1
GGGCACTCGGTGAAAATATGGCACCAGAAAAAGTAGACTT
+HWI-EAS443:3:94:898:177#0/1
aaa__`a[a]Xa]_^_^_a_`^_YWW`^]XZZ`Z]^WY]V
@HWI-EAS443:3:94:898:367#0/1
GTTTCCGATTTGTTTTCAAAGAATTCCTTGGTCATGTCTT
+HWI-EAS443:3:94:898:367#0/1
a^a`_^b^`a`a^`a`____aa`^a^]]`_a[XX]aa]Y__
@HWI-EAS443:3:94:931:1072#0/1
GCATAAATCCCAATTACCTCATGGCTTGGAAGCAGGTGCT
+HWI-EAS443:3:94:931:1072#0/1
a`ba^` `baa`[ab_]aa`]abbaaa`a_XY^W__U[Z[
@HWI-EAS443:3:94:997:1208#0/1
CACAACTTGAGGGTTTTTCGGCTGAATCGAGAAAATTGCT
+HWI-EAS443:3:94:997:1208#0/1
aaab`^baaaa^_^]aaaaabab`aa`^ba`[``_a_W__
@HWI-EAS443:3:95:1037:1336#0/1
GGGGGCTATATGAAGCAATCGAGGAGTGCCTGATTAATGA
+HWI-EAS443:3:95:1037:1336#0/1
abbab`bab_aabbbaab`Pbabbabaa]` `b`abaaaa
@HWI-EAS443:3:95:109:1485#0/1
GATTCGAGCCGAACGGCTGCATTGAGGGCAAGCTTTCCCA
+HWI-EAS443:3:95:109:1485#0/1
a_bbbbbbb_aba[aaaa^a[`[^S^T_bSXZ`YW__V_¥U
@HWI-EAS443:3:95:1116:1263#0/1
GGCTCCAGTCTCGGGTCAAGTGAAGTGAAGTCCACTTA
+HWI-EAS443:3:95:1116:1263#0/1
aa]`]XZYWa_¥]_YMQY][aa[VZVX[]_YNVa][SRUP
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+HWI-EAS443:3:95:1119:1384#0/1
aaaaaabaaaaaaaaa_`]a___^a^_a^____`_`^Za`]
@HWI-EAS443:3:95:117:1613#0/1
GTGCTAGCAGAGCTACAGGACATTGAAAATGAAGAGAAGA
+HWI-EAS443:3:95:117:1613#0/1
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@HWI-EAS443:3:95:1190:724#0/1
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+HWI-EAS443:3:95:1190:724#0/1
aab`bbaaba`aa_aa`aa`aa`b_`a`]Wa[aaY]a_`
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+HWI-EAS443:3:95:1198:1209#0/1
aabaaaa`ba^baaa_a^`a]a`abaaa_a___¥a__`a
@HWI-EAS443:3:95:1245:1266#0/1
TTCGAGCCGAACGGCTGCATTGAGGGCAAGCTTCCCAAA
+HWI-EAS443:3:95:1245:1266#0/1
`baa`ba`bbb`b`abaP¥a_Y`_a_____[-``[-^```
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+HWI-EAS443:3:95:1422:692#0/1
aaY`a`b`ab_bb``_bba_`Z___a¥Z__FNbb`ba`a
@HWI-EAS443:3:95:1440:838#0/1
GGGGAGTGGAGGAAGGCTCTATTGGGAAAGTGCAGGAC
+HWI-EAS443:3:95:1440:838#0/1
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@HWI-EAS443:3:95:1487:854#0/1
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+HWI-EAS443:3:95:1487:854#0/1
ab`_aT`bbb_babbbbbbabab___babbaabbaa`bb
@HWI-EAS443:3:95:1587:1421#0/1
CAGGATGCATTGAGCAAGGCCGATTTTATGTACACTCCCT
+HWI-EAS443:3:95:1587:1421#0/1
`bbbaa¥_bababa¥bb_ba_a_abaab```aWbaa¥_`^
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+HWI-EAS443:3:95:1657:58#0/1
abb`Laa`bbaabba]aaUPP¥aaab`ab`YbXbaaba`W
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+HWI-EAS443:3:95:1703:325#0/1
ab[D¥]XZO_LYaU]aaa`TRa`T^^_b_`]J``XP¥_XD
@HWI-EAS443:3:95:239:1420#0/1
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+HWI-EAS443:3:95:239:1420#0/1
_abbbbbbbbbb_S_abaab`aa`[aa``aa_a``¥[``_`
@HWI-EAS443:3:95:366:1775#0/1
GGAGTGTACATAAATACGGCCTTGCTCAATGCATCCTGTG
+HWI-EAS443:3:95:366:1775#0/1
]VUV_UP¥_]S`^Z¥`YZ¥Q_X^`]_]`[^YK[Y¥V[TT¥
@HWI-EAS443:3:95:428:1096#0/1
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+HWI-EAS443:3:95:428:1096#0/1
`baU¥ab]RY`RJS_HTbUaaa]bY][bYS]_QTZHW^[^
@HWI-EAS443:3:95:42:1241#0/1
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+HWI-EAS443:3:95:42:1241#0/1
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CACTGCAGGGCTACTGAATACATAATGAAGGGAGGTACA
+HWI-EAS443:3:95:455:553#0/1
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+HWI-EAS443:3:95:474:1370#0/1
^aa^aa_]a` `` `__aaaa_` `aQa^YY][` _¥` `V_[WZ
@HWI-EAS443:3:95:487:62#0/1
GAAATGGAAATCCGAATACATGAAACAACTTCCAAATGT
+HWI-EAS443:3:95:487:62#0/1
a_aa`] ^a^b_` a^P` aYaaa` a^a` _]a__¥__]_` Z
@HWI-EAS443:3:95:512:652#0/1
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+HWI-EAS443:3:95:512:652#0/1
abbababbababbbbaaaabbb` bbbabbaaa` baaa` a
@HWI-EAS443:3:95:520:1303#0/1
CAAGTTTGTCTGCAATATGCACACATTTGGAAGTTTGTTC
+HWI-EAS443:3:95:520:1303#0/1
abb` babbbbabbbbbbbaa_` aabb_abb`
@HWI-EAS443:3:95:563:450#0/1
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+HWI-EAS443:3:95:563:450#0/1
aaaababaaabba` a_` aa` a` _aa` `aa` baaaZ_` 0V
@HWI-EAS443:3:95:610:66#0/1
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+HWI-EAS443:3:95:610:66#0/1
abbbaaa_aa_baaVaa[aW_]` ^_` ^a^` `a]__¥_]]
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+HWI-EAS443:3:95:611:1709#0/1
`¥V` a_bba]b_aaa[aR¥aT[a^aa_] ^]` __` aRba[`
@HWI-EAS443:3:95:647:1661#0/1
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+HWI-EAS443:3:95:647:1661#0/1
abb` aaabbaab` aaaabbaaaa¥a` a¥` a^a^a__^`]`
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+HWI-EAS443:3:95:655:937#0/1
abbbba` bbabaabaaabYaaaaaaaaaaaa_a_baZa_` ^a
@HWI-EAS443:3:95:657:39#0/1
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+HWI-EAS443:3:95:657:39#0/1
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+HWI-EAS443:3:95:697:82#0/1
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@HWI-EAS443:3:95:710:486#0/1
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`aY` bab_Ybaa_aTbbbbaaba[a_aaa_aW]]a¥^Ra^
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+HWI-EAS443:3:95:755:1698#0/1
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@HWI-EAS443:3:95:794:973#0/1
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+HWI-EAS443:3:95:794:973#0/1
aa_a` `a`_a¥[aaRY_aRU]a` `a`_X¥`a]_`^]__`a
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+HWI-EAS443:3:95:802:290#0/1
aaa_aaaabb_`ba_aaaa`aa^VW¥`^`a_aa__`X_
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+HWI-EAS443:3:95:905:460#0/1
a]aa` `aaaaaa¥aa]`aaa^Y¥`_aaZYa]¥a__`XUZ
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+HWI-EAS443:3:95:997:1428#0/1
aaabaaaabaabb`babbb` `abbbbbaabaab_a^a_a
@HWI-EAS443:3:96:1034:1757#0/1
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+HWI-EAS443:3:96:1034:1757#0/1
aabbaaa__a[_aaab¥^`a[^]¥U_`^__a__VNY^^`^
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+HWI-EAS443:3:96:1113:244#0/1
`_abaabaaabaab_a`aV`aaaaa`]aaVYaa`V_V__
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+HWI-EAS443:3:96:1120:1211#0/1
a¥GV_Z[Yb` `M^a_]____][__a]`MFQXLOTTOXO_B
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+HWI-EAS443:3:96:1175:1459#0/1
aV_Za][]abbabTba_` `V`_`b__]`¥___^aZ` ` `_
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+HWI-EAS443:3:96:1202:490#0/1
`[Y_`^`aW` ___^TX_`^¥^]UWZaUV[_^X`_QX0]V^^
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+HWI-EAS443:3:96:131:1899#0/1
`a_M]aa[WX[aaa[aa[aaaa__`a`_`^a[_`__a^X^
@HWI-EAS443:3:96:1350:1609#0/1
TTCTGCTGTAAAATAGTTCCCTCCTCATGCTTGCGATATGT
+HWI-EAS443:3:96:1350:1609#0/1
a`] ^aaa^_abaaab_[a`¥a¥`^_aa`[a`a`b`aaaa¥
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+HWI-EAS443:3:96:1460:627#0/1
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+HWI-EAS443:3:96:1506:1065#0/1
]Z`¥SZQ^`aabaaP]^TU]`aS¥T_[WWa¥a¥]^XZRB
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+HWI-EAS443:3:96:1508:960#0/1
a`a_U_aaaa_ba`X¥aaaTaaa]^`^_a_aaa^^_W[`a
@HWI-EAS443:3:96:1522:801#0/1
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+HWI-EAS443:3:96:1522:801#0/1
```aaNaba\_Yb`abbabbabaaaaQ\_¥aY[Ta`\_a]\_Z\_  
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+HWI-EAS443:3:96:1625:113#0/1  
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+HWI-EAS443:3:96:164:392#0/1  
aaa\_LXT`^¥a^a]^`\_aP¥Y¥]^`^`\_\_\_\_[YXMDEa[FO  
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+HWI-EAS443:3:96:1653:1113#0/1  
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+HWI-EAS443:3:96:202:1431#0/1  
^TZb[Y\_abb]aaba\_RaUa`^Ya^Z¥[ ]`\_][P^^0`a  
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+HWI-EAS443:3:96:217:445#0/1  
aaaa[Zaaa`a`aaa^aa\_\_^`a`]\_\_Y¥S^\_Y`\_Y^T¥  
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ATGAAATGGAATCCGAATACATGAAACAACTTCCAAAT  
+HWI-EAS443:3:96:253:2003#0/1  
aaaa\_a\_M`]^`\_aa`^^^\_]aXX\_\_¥[a\_\_Y]]X\_^^^  
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+HWI-EAS443:3:96:346:286#0/1  
\_]aaa`a`aaa^]aY\_\_`^`\_Y^W^^W]XY^^X]^]^  
@HWI-EAS443:3:96:35:462#0/1  
GAAGATCCCAAGGACAAAGAACATGAAGAGAACAAGCCAA  
+HWI-EAS443:3:96:35:462#0/1  
a\_¥a¥^a]]`^`a\_`WWaa^\_¥`a]]`^Z¥¥\_a`aYV^¥  
@HWI-EAS443:3:96:382:415#0/1  
ACATGAGAAAGGCATAAATCCCAATTACCTCATGGCTTGG  
+HWI-EAS443:3:96:382:415#0/1  
aaaaaaaaa]a\_aa]]]a\_^¥`\_a\_\_Y[]X[]\_^V\_UPZ  
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+HWI-EAS443:3:96:410:984#0/1  
aa\_aaaaa`a`aaaa`a`¥`a`\_]Za\_a`\_^`a`\_^  
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GATGAAATGGAAATCCGAATACATGAAACAAACTTCCAAA  
+HWI-EAS443:3:96:415:1651#0/1  
a`[^````\_`\_`ab`]aaaa`a`aa`aa`````\_`^Y  
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+HWI-EAS443:3:96:470:489#0/1  
abaaaa`aa^bZZZa[aaba\_Y^\_a\_\_\_a`aa\_¥]a^aa`  
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+HWI-EAS443:3:96:497:255#0/1  
a\_aaabQaaa`W^aa`a\_W\_\_\_Y`¥\_Z¥^\_U\_S[¥¥^W¥  
@HWI-EAS443:3:96:58:1850#0/1  
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+HWI-EAS443:3:96:58:1850#0/1  
]W\_aUaa`\_ZTLV¥b]\_aa^^aa^aaYa^X]V]a^N]\_WU  
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+HWI-EAS443:3:96:648:2029#0/1  
a]aa`\_`a`baaaaaab\_bbb`aa]\_\_\_`\_]`\_a````  
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a]\_`¥YT^XUTYXW\_PYLXS\_YU`UT¥`aV`[NQZBBBB  
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@HWI-EAS443:3:96:707:1251#0/1  
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+HWI-EAS443:3:96:707:1251#0/1  
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+HWI-EAS443:3:96:754:351#0/1  
Y`a```bbbbbbbbbbabbabbababababbbbabbb\_aab  
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+HWI-EAS443:3:96:779:801#0/1  
a`aaaaabaa```aaaaba`\_b\_aa]^aa\_\_ab\_^``]aa  
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AGAAATTTAGGCTTCTTACCCCTGTTGTGTTACATATAC  
+HWI-EAS443:3:96:830:523#0/1  
a\_[\_¥^a^`Z`\_]`RZW]]F[KV¥]WY[L]U\_\_\_]]]]YV



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aa\_`^¥`\_baa`¥aabaaaa`\_aaaa^¥a\_`\_`\_]`W`  
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+HWI-EAS443:3:96:861:672#0/1  
aaaa]a\_abaaaa`a\_Ua]aa\_¥aa¥a\_\_\_a¥Y\_\_a`¥¥  
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+HWI-EAS443:3:96:916:529#0/1  
a\_a`W``abb\_[b]V]a]]`b`Tq]LWS\_`^^a`]\_QZ\_0  
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+HWI-EAS443:3:96:949:1432#0/1  
aaaa\_`VaX[U\_Z]aX`a]\_U`R`\_]`\_]`^Z[SRQVHZ  
@HWI-EAS443:3:96:950:524#0/1  
GGGGTTTTCGGCTGAATCGAGAAAATTGCTTCTCATTGTT  
+HWI-EAS443:3:96:950:524#0/1  
aaba[baaaa¥]aabaaaaZa\_\_\_a\_a\_¥a\_YaX]``^`\_  
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+HWI-EAS443:3:96:95:940#0/1  
^aaa¥a`^La`W¥aa`aa\_Z`^P¥WQ[^U¥¥^`¥¥Z¥¥  
@HWI-EAS443:3:96:984:1243#0/1  
ATTTTCATCGACGAACGGGTGAATCAATAATTGTAGAATC  
+HWI-EAS443:3:96:984:1243#0/1  
\_`[a\_\_YZ^]W\_\_V\_\_\_a^[a`\_`¥TSaX]`X^Z^`aa¥  
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+HWI-EAS443:3:96:98:1643#0/1  
Q\_b^aab¥Y]^`[`Z\_W^aW^Q¥\_S]DH[\_`P[¥a¥[[T`  
@HWI-EAS443:3:97:1074:477#0/1  
TAGGCCAAGTGTGAGGCCCATGTTCCCTATATGTGAGAAC  
+HWI-EAS443:3:97:1074:477#0/1  
aV`WH¥bbb`^]U]a^a`]a]`^`YaaUba\_baaUa``¥aQ  
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CTTCTCTTCATTTTCAATGTCCTGTAGCTCTGCTAGCACC  
+HWI-EAS443:3:97:1114:1902#0/1  
L\_b[\_^`[¥aaaab`aaba`\_b`bbbaabaabU\_bbaVWa  
@HWI-EAS443:3:97:1185:1321#0/1  
GGCATGGAATGAGGCGCTGCCTTCTTCAGTCTCTTCAGC  
+HWI-EAS443:3:97:1185:1321#0/1  
aa^babb`^`baaab[a`a\_R[ab]abU^a\_KX`abU¥\_U  
@HWI-EAS443:3:97:1196:1504#0/1  
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+HWI-EAS443:3:97:1196:1504#0/1  
aW`[W]a[\_a`\_aaa\_\_aXW]a^\_]`Z^ZZa\_\_X^]X^  
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+HWI-EAS443:3:97:1266:1586#0/1  
a\$^YVYV[YYX^R^X^Y^X]Y\_YYXV^YVXXXRVVVXH  
@HWI-EAS443:3:97:130:533#0/1  
CAGTATTTTTCCCATTGTGTGGCTCCAGTCTCGGGTCAG  
+HWI-EAS443:3:97:130:533#0/1  
abbaabb`aaaaabbbb`b^b\_\_a\$Y\_Y\_\_W^aaSV\$]  
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+HWI-EAS443:3:97:1349:436#0/1  
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@HWI-EAS443:3:97:1433:1418#0/1  
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+HWI-EAS443:3:97:1433:1418#0/1  
a^`\_a^aa\_Haaaa\_aaa`W^aYVa^b\_^][`aZW`\_aG  
@HWI-EAS443:3:97:1436:426#0/1  
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+HWI-EAS443:3:97:1436:426#0/1  
aa`baa`baaa\_aaaL[`a]\_`N`\_a[\_\$Z\$`\_\_U^`  
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a[a[\_aab`]U\_baa\_]aa\_]aa\$LR`\_`\_^\_a^]`^Pa  
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aaab`a^aa\_a^a^aa``aaa\_Z`^`^a`^`X`]]`\_`  
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+HWI-EAS443:3:97:570:1221#0/1  
abaT``\_`¥`aa`bbbb`aaa`a^a\_X\_aU`aaa```a  
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a`ab`bababaaa^aaaaa``abaaa`a`a\_\_aa`\_\_^`\_  
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+HWI-EAS443:3:98:1165:1303#0/1  
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a]a^\_\_\_\_a\_a\_aa`\_]\_Y]X]]XX`U\_]YXOW]OYZ]^^^  
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^U^`aa¥X`\_a^]Zaaa`^]¥a\_\_a`\_^\_a[a\_Y]\_Z¥  
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+HWI-EAS443:3:98:88:1603#0/1  
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+HWI-EAS443:3:99:1088:1092#0/1  
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Jab`^bb`\_a`aabbaa\_ba`aaaab\_b[bababaXabab  
@HWI-EAS443:3:99:1517:645#0/1  
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+HWI-EAS443:3:99:1517:645#0/1  
abb\_\_b``ba`a\_a`\_aaaW`\_¥^\_a\_b`\_a``[aaSa\_U



@HWI-EAS443:3:99:157:1624#0/1  
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+HWI-EAS443:3:99:157:1624#0/1  
a`^Ta\_Y]aba`abaaYWaa`]a]a\_\_[Y\_^SZ`aaZ`]P  
@HWI-EAS443:3:99:1592:138#0/1  
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+HWI-EAS443:3:99:1592:138#0/1  
`\_WOGZa`aaTST\_aSaa\_\_b[IZ]¥`^^\_U`¥`\_ZYW\_\_  
@HWI-EAS443:3:99:1601:1074#0/1  
GGCATGGAAATGAGGCGCTGCCTTCTTCAGTCTCTTCAGC  
+HWI-EAS443:3:99:1601:1074#0/1  
ab\_babbbbabbbab\_babb\_`a`bba`aaQa`baYYV\_  
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+HWI-EAS443:3:99:1614:1457#0/1  
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+HWI-EAS443:3:99:1685:1115#0/1  
a)``I\_\_abR^aXa\_`QIT\_Rbab\_]ZVa\_[¥a¥\_Xa]\_  
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+HWI-EAS443:3:99:1741:997#0/1  
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+HWI-EAS443:3:99:1744:1229#0/1  
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+HWI-EAS443:3:99:214:1884#0/1  
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+HWI-EAS443:3:99:219:1572#0/1  
`a]abbbabbbababababababab\_bbaaaabbababa  
@HWI-EAS443:3:99:229:1374#0/1  
CAACATCTTCTCTATTTTCATCAAGTTCTATCCAGCTTGA  
+HWI-EAS443:3:99:229:1374#0/1  
a^Ya`aaa`a`ba]R`ba\_\_][\_`a[ZTDPa`aS^UYa^`  
@HWI-EAS443:3:99:235:50#0/1  
AGGAACTATGCGCAAGCTTGCCGACCAAAGTCTCCCACCG  
+HWI-EAS443:3:99:235:50#0/1  
abbaa`abaaa[a^`\_a\_\_a¥^`\_U¥^^^`¥¥]UTW^TU\_  
@HWI-EAS443:3:99:237:460#0/1  
GGGGGGCTATATGAAGCAATCGAGGAGTGCCTGATTAATG

+HWI-EAS443:3:99:237:460#0/1  
abaa`aaaaaaaa`a`aa`]a``\_¥aWa\_¥\_a^a\_`\_\_`  
@HWI-EAS443:3:99:280:835#0/1  
AGCAGGTGCTAGCAGAGCTACAGGACATTGAAAATGAAGA  
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^U]FWbZYb[U]aZa]]a]\_ab[ba]IX]^OGUZ]ZH`Q  
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TTCGGATTTCCATTTTCATCGACGAACGGGGTGAATCAATA  
+HWI-EAS443:3:99:300:981#0/1  
aa`aaa\_`\_]\_^aa``\_\_a`¥\_a^\_¥\_]\_\_Va\_^]S\_^`]  
@HWI-EAS443:3:99:306:1343#0/1  
GGATTCGAGCCGAACGGCTGCATTGAGGGCAAGCTTTCCC  
+HWI-EAS443:3:99:306:1343#0/1  
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+HWI-EAS443:3:99:31:1274#0/1  
`[Y\_¥YZ¥^`b`baaa`aa\_a]`a]\_Za\_aaa^Vaaa]aa  
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GTTCGGTGGGAGACTTTGGTCGGCAAGCTTGCGCATAGTT  
+HWI-EAS443:3:99:36:353#0/1  
aaaabb\_baa`a[\_aaaa¥a^ZX``aaX^\_W\_\_\_Z¥ZNR  
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+HWI-EAS443:3:99:378:406#0/1  
^]\_`X`^ZY[aaaaaaaaW^^Y^a¥\_W\_^``[^XZX^U  
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TCTCATTTGAGAAATGATACTGATGTGGTGAACCTTTGTAA  
+HWI-EAS443:3:99:38:467#0/1  
aaa¥Z\_aaa\_a`aa`b``a\_aaa\_a\_`\_V`]\_]`\_\_a^]V  
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CGGAAACATGGCCAATCGGAGAGTCACCCAGGGGAGTGGA  
+HWI-EAS443:3:99:504:1556#0/1  
^a¥W¥bbbb^`[abb¥bbabababba]]b\_ZTa¥^JTba  
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ACATCAGTATCATTTCTCAAATGAGACCTTCTTTTATAA  
+HWI-EAS443:3:99:517:797#0/1  
]¥aa`^¥YV¥a^a`Z`^]\_¥^``\_V`][`a\_]aaaa\_\_`\_  
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AGAGCCTAACATAGTCAAACCACATGAGAAAGGCATAAAT  
+HWI-EAS443:3:99:530:1010#0/1  
a`aaa`aZba^aaaaaaaaaaaa`aaaa\_aaa\_\_aaaa¥\_  
@HWI-EAS443:3:99:534:298#0/1  
ATGAGAAGCAATTTTCTCGATTGAGCCGAAAACCCCTCAA  
+HWI-EAS443:3:99:534:298#0/1  
aabY^V]a\_]ZWa`a``^W¥\_\_`\_\_^aZ^^]UQVVVV]X  
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CCACTCCCCTGGGTGACTCTCCGATTGGCCATGTTTCCGA  
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+HWI-EAS443:3:99:575:207#0/1  
aba¥aaa`b`\_aaaa`\_a`a`\_\_`aa^`\_T^Y^\_`¥^X  
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GGTGAACCTTTGTAAGTATGGAGTTCTCACTCACTGACCCG  
+HWI-EAS443:3:99:623:680#0/1  
a\_RWS]aaa`a[`]a\_a`^VJZ\_Z[]\_a`\_\_\_^P`\_ZHSa  
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+HWI-EAS443:3:99:667:1567#0/1  
a[``T]U`\_\_a[aa\_\_\_RZ``Z]`X`W¥[Y\_`S\_\_\_[P¥\_  
@HWI-EAS443:3:99:684:1225#0/1  
GGCATGGAAATGAGGCGCTGCCTTCTTCAGTCTCTTCAGC  
+HWI-EAS443:3:99:684:1225#0/1  
a¥`b^`^`]^`^\_ab\_`aaa^P¥\_aVaaU^]^¥a``[¥W\_¥  
@HWI-EAS443:3:99:717:1138#0/1  
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+HWI-EAS443:3:99:717:1138#0/1  
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+HWI-EAS443:3:99:730:251#0/1  
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GACCCGAATGCACTATTGAAGCACCGATTTGAGATAATTG  
+HWI-EAS443:3:99:762:719#0/1  
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+HWI-EAS443:3:99:773:2027#0/1  
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+HWI-EAS443:3:99:786:1432#0/1  
ababaaabb^babbabaa^aaa`a\_aaa\_aa]`a]`^\_¥¥  
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+HWI-EAS443:3:99:813:2014#0/1  
abaaXabbabaaa```aaaa`b\_aaa\_`a``a``ZMV\_a  
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AGAAGTTCGGTGGGAGACTTTGGTCCGCAAGCTTGCGCAT  
+HWI-EAS443:3:99:815:479#0/1  
ab\_a\_]aabb^b\_a`aaaaab]Raaaa^`aa``a¥aV\_`  
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GCTTGCTAGAGATCTGGGCTCTGGCTCATCACTGTCATAC  
+HWI-EAS443:3:99:844:1352#0/1  
a\_aabaaabab\_`Z\_aab`a`\_abaa\_a\_\_aa\_a\_]`a`]  
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GGGCACTCGGTGAAAATATGGCACCAGAAAAAGTAGACTT

+HWI-EAS443:3:99:883:901#0/1  
\_bbbab` `¥T[Z\_\_aba\_]Za`a`bX[``]aH`a`a\_a  
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+HWI-EAS443:3:99:915:1033#0/1  
`[U^ZYG\_]a\_Yaaa¥V\_`U]X^\_\_ZY^^`W\_`¥^Q\_^]  
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+HWI-EAS443:3:99:973:1585#0/1  
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+HWI-EAS443:3:99:995:1012#0/1  
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CACCCAGGGGAGTGGAGGAAGGCTCTATTGGGAAAGTGTG  
+HWI-EAS443:3:9:1102:95#0/1  
^¥aY`\_bbbb^aab^P\_a¥b`bX¥PXSVa\_^]`\_aaV]Xa  
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AAATAAAATCTGAGAAGACACATTCACATCTTTTCATT  
+HWI-EAS443:3:9:1105:388#0/1  
aaabaab`a\_aa` `\_a` `\_a[a]^` `^a^aa\_aaa\_]` `\_  
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CACATCAGTATCATTTCTCAAATGAGACCTTCCTTTTATA  
+HWI-EAS443:3:9:1111:727#0/1  
\_b` `\_^` `]^a\_`bba^\_\_a`aabaaa\_\_\_b\_\_aabaaaZ  
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+HWI-EAS443:3:9:1127:1410#0/1  
Yb` `]b`\_R\_`ab^b` ` `bbYaaaaH[T\_aaa]ba^ZZZ  
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+HWI-EAS443:3:9:1216:1558#0/1  
aabbab`abb^abb`\_aaaab[b\_ZON[`^WRVZ¥Y¥¥\_U  
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AGAGATCTGGGCTCTGGCTCATCACTGTCATACTGTTTAA  
+HWI-EAS443:3:9:1283:1252#0/1  
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+HWI-EAS443:3:9:1284:1550#0/1  
aa\_]\_aab^DEaI^a` `a`]a\_¥`aYaW`a\_BBBBBBBBB  
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CGAAAATCGAAACTAACAAGTTTGCTGCAATATGCACACA  
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@HWI-EAS443:3:9:1495:1350#0/1  
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+HWI-EAS443:3:9:1495:1350#0/1  
aa\_a\_baa\_aaaaX\_aaaa\_a^`Y\_\_aUYXHX\_\_\_\_`\_^\_^  
@HWI-EAS443:3:9:1609:1764#0/1  
CAGTCATCAAAGTCTACTTTTTCTGGTGCCATATTTTCAC  
+HWI-EAS443:3:9:1609:1764#0/1  
aY^¥Z]\_`aa]ZNVa^W`aa`a^XVZR\_YY\_\_\_\_\_`\_\_U\_U  
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+HWI-EAS443:3:9:1651:1785#0/1  
aa^`^abbbabaaa\_]`aaQaa``\_aZ`\_\_\_[a\_``a\_¥a`  
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AATTGAAGGAAGAGACCGAATCATGGCCTGGACAGTGGTG  
+HWI-EAS443:3:9:1682:1307#0/1  
^`bbabbbbaaa^abaU\_bbaY\_a```\_\_`\_^Y^`^]\_^0]  
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AAGAATTCCTTGGTCATGTCTTTCTCTTTGACAGAAGACT  
+HWI-EAS443:3:9:1687:118#0/1  
a]`a\_bb¥^baab\_\_`aa`]aa`WaWaaaa^^\_a^\_\_^W^  
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+HWI-EAS443:3:9:1694:1746#0/1  
a`ab\_aXRb¥0\_\_^¥^`Z\_V``YTHX0\_¥\_¥^¥G\_]`^\_¥Z  
@HWI-EAS443:3:9:1718:984#0/1  
CTTCAATAGTGCATTTCGGGTCACCAGATTCTACAATTATT  
+HWI-EAS443:3:9:1718:984#0/1  
a\_^aaTa`S\_RZ^`Pa`\_¥U[[YX[W\_\_^\_]\_]\_\_`  
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GGTGAACCTTTGTAAGTATGGAGTTCTCACTCACTGACCCG  
+HWI-EAS443:3:9:182:1810#0/1  
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@HWI-EAS443:3:9:209:1205#0/1  
ATGTAACACAACAGGGGTAGAGAAGCCTAAATTTCTTCCT  
+HWI-EAS443:3:9:209:1205#0/1  
\_aaa\_ba¥````a^`a^¥``aa^`^^abaa`aaa^`\_`[`  
@HWI-EAS443:3:9:263:1674#0/1  
ATCATTAATCAGGCACTCCTCGATTGCTTCATATAGCCCC  
+HWI-EAS443:3:9:263:1674#0/1  
a[`^\_X]a¥\_[Z]\_a¥^YaYUT\_GT\_]`[\_¥H¥S^]\_^]]  
@HWI-EAS443:3:9:351:1201#0/1  
GTTTCCGATTTGTTTTCAAAGAATTCCTTGGTCATGTCTT  
+HWI-EAS443:3:9:351:1201#0/1  
a``aabbaaaab`\_`aabaa^a\_\_`\_a\_a\_aa^^]`^aY\_\_`  
@HWI-EAS443:3:9:398:543#0/1  
TTGGGGGGCTATATGAAGCAATCGAGGAGTGCCTGATTAA  
+HWI-EAS443:3:9:398:543#0/1  
aabba`^aaaaaaaa]\_\_aaa\_`\_``^\_¥\_`¥`aW\_]¥  
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+HWI-EAS443:3:9:425:60#0/1  
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@HWI-EAS443:3:9:515:983#0/1  
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+HWI-EAS443:3:9:515:983#0/1  
aabaaaaab]bbaa\_baabaaaaa`\_aaaa\_\_\_a]a\_]¥  
@HWI-EAS443:3:9:517:699#0/1  
ACGGCCTTGCTCAATGCATCCTGTGCAGCCATGGATGACT  
+HWI-EAS443:3:9:517:699#0/1  
`ab\_ab[\_ZQ]aa\_V^[a]\_¥\_QU`X^`UZV\_\_`ZV[N^Q  
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CATGTTTCCGATTTGTTTTCAAAGAATTCCTTGGTCATGT  
+HWI-EAS443:3:9:679:787#0/1  
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GGGGGCTATATGAAGCAATCGAGGAGTGCCTGATTAATGA  
+HWI-EAS443:3:9:693:255#0/1  
aaY][X`aa`a`\_^W`\_^W^Z`\_X\_[Z¥V`TZ`\_X]]\_]  
@HWI-EAS443:3:9:708:62#0/1  
AGGGGTTTTCGGCTGAATCGAGAAAATTGCTTCTCATTGT  
+HWI-EAS443:3:9:708:62#0/1  
a`VabNaa`aaa]aaaa\_\_a^\_^¥^a\_¥\_^¥\_]\_]\_\_]aW  
@HWI-EAS443:3:9:724:259#0/1  
AGTTCCTCCTCATGCTTGCATATGTTCAATCGGGGCAAC  
+HWI-EAS443:3:9:724:259#0/1  
abaaaaab^a`baaaaaab`baaa`a^a^`a^]\_\_``¥V\_Y  
@HWI-EAS443:3:9:750:521#0/1  
CAACAAAATAAAATCTGAGAAGACACACATTCACATCTTT  
+HWI-EAS443:3:9:750:521#0/1  
P\_]\_Xb^`baaZ`a`a^ba¥a]a]Yaa^aaaVb\_¥b^bab  
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AGAAATTTAGGCTTCTCTACCCCTGTTGTGTTACATATAC  
+HWI-EAS443:3:9:809:740#0/1  
aaaaaaaaaaaaa\_```a\_\_\_^^`\_^\_S`X\_\_^\_\_`\_\_V  
@HWI-EAS443:3:9:911:874#0/1  
GGCGTGGTGTGCTCCTCAAGAATGGTTCAATTTTGGCGTT  
+HWI-EAS443:3:9:911:874#0/1  
ab```ba\_b`aba`]aaaaa`ab\_^`\_a`a`a`\_¥[a\_`  
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+HWI-EAS443:3:9:916:1165#0/1  
aa^a^aab¥`G]`\_b\_a\_bba`\_b\_S`a]Z`aaa[a\_\_b^  
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CGTCCCTCTTAGTTTGCATAGTTTCCCGTTATGCTTGTCT  
+HWI-EAS443:3:77:522:1148#0/1  
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+HWI-EAS443:3:1:583:205#0/1  
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aY\_]\_a]N\_Ua]LVZY\_a`V¥Y[VVFF[G]\_`\_TX¥UN¥  
@HWI-EAS443:3:63:1192:95#0/1  
GTAAATACATATTCTACACTGTAGAGACCCATTAGAGCA  
+HWI-EAS443:3:63:1192:95#0/1  
aab``abaaabaa`\_`\_`\_`aa^^aW`[]^\_\_^^`\_\_\_\_]  
@HWI-EAS443:3:71:588:317#0/1  
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+HWI-EAS443:3:71:588:317#0/1  
a\_¥Z[]aXV`R[^`aYa\_VLI[QX[]Y\_\_^NNT¥`WWW¥Z  
@HWI-EAS443:3:71:870:1673#0/1  
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+HWI-EAS443:3:71:870:1673#0/1  
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+HWI-EAS443:3:87:1770:90#0/1  
a`S\_QPaJNY\_aaaP`YT^Pa\_LPXR^]GRGWT[PM[XP^  
@HWI-EAS443:3:99:1136:937#0/1  
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+HWI-EAS443:3:99:1136:937#0/1  
aaaaaaaaa^a\_a`a\_[a^aa¥`\_`\_XX^\_`¥`W\_]S`  
@HWI-EAS443:3:52:81:200#0/1  
GATGGATCAAGTAAGAGAGAGTCGAAACCCAGGAAACGCT  
+HWI-EAS443:3:52:81:200#0/1  
aa\_aa`\_]\_Za]W\_a^`^`\_aZ^\_]`^0¥Z^]`R[[MTUZ  
@HWI-EAS443:3:86:791:1848#0/1  
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+HWI-EAS443:3:86:791:1848#0/1  
abb`XZ]W\_[Za\_\_¥aa^\_0`YaaXLQU`aaW[BBBBBBBB  
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+HWI-EAS443:3:88:1147:182#0/1  
¥\_¥Z`\_`^`^`^a\_Z`\_`b\_Z^^aYPW]aaBBBBBBBBBBBB  
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AGGCCCTCTTTGCGTGCGATTGGACCAGGCGGNGATGGAA  
+HWI-EAS443:3:22:1631:402#0/1  
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+HWI-EAS443:3:13:1081:1774#0/1  
a\_[W]VY[QV]Y¥PMJWWPSSUWSY^^U]BBBBBBBBBBBB  
@HWI-EAS443:3:18:698:648#0/1  
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+HWI-EAS443:3:18:698:648#0/1  
aW`¥a[a\_UW``\_a]`Ra`aYNY\_a[^a^`ZaBBBBBBBB  
@HWI-EAS443:3:35:1026:1326#0/1  
CGCCCTCTTTGCGTGCGATTGGACCAGGCGGCATGGAAA

+HWI-EAS443:3:35:1026:1326#0/1  
abbbbabaaaabaabaab`a`aa¥a\_\_bbBBBBBBBBBBB  
@HWI-EAS443:3:19:903:2044#0/1  
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+HWI-EAS443:3:19:903:2044#0/1  
abaabb`bbab`aabbbaabbaaaaabaabbbabababa  
@HWI-EAS443:3:42:612:202#0/1  
GTGGTTTTTATCATTAAATAAGCTGAAACGAGAAAGCTCT  
+HWI-EAS443:3:42:612:202#0/1  
\_S[DP\_WaaUKa\_]\_]Z\_V^¥\_\_X\_\_a^\_a¥\_¥Y¥a¥]U]  
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+HWI-EAS443:3:10:240:889#0/1  
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GTGACAAAACATAATGGACTCCAACACCATGTCATGCTT  
+HWI-EAS443:3:14:168:867#0/1  
`¥\_S\_aa[¥aa`^Q]`aaaa\_aaa\_a^`a\_`aS\_\_^a\_`]  
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GACCGCCTGGACCAATCGCACGCAAAGAGGGCCTATTATC  
+HWI-EAS443:3:27:1503:104#0/1  
ZW[\_Z\_\_ORFRT¥a]H[[aXbU\_Q\_Z[bZXDD¥RYOQOJ  
@HWI-EAS443:3:40:401:786#0/1  
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+HWI-EAS443:3:40:401:786#0/1  
\_a]\_a[```PXY^RY\_aW`\_ZGX`W`G^X^^QZXUVZU  
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+HWI-EAS443:3:42:52:691#0/1  
a\_]^[\_]X^W\_```\_\_[^¥a\_\_a^^`[^`PM[\_¥]¥\_\_X  
@HWI-EAS443:3:56:1463:1626#0/1  
GACAAAACATAATGGACTCCAACACCATGTAAAGCTTTC  
+HWI-EAS443:3:56:1463:1626#0/1  
ab\_`\_OUaP\_]Waab`P[`GNWa`\_ZK\_a\_UGQX`P¥XY\_  
@HWI-EAS443:3:5:1142:966#0/1  
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+HWI-EAS443:3:5:1142:966#0/1  
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+HWI-EAS443:3:89:1200:1284#0/1  
aa`aaa`b`aa\_\_`aaab\_aabaaa\_aaaa^¥`\_^]\_\_U  
@HWI-EAS443:3:99:849:1304#0/1  
GAAGGTCGCTTTCAGTACTATGTTCTTTTCCATGACCGCC  
+HWI-EAS443:3:99:849:1304#0/1  
[bT[Ia[`bbU^]Sbaaaba`b``\_a`\_HZU`ba]HY]`  
@HWI-EAS443:3:55:855:1022#0/1  
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+HWI-EAS443:3:55:855:1022#0/1  
aaG[^```[\_R`[\_NY]XQNSSa`YY\_a]aa`X[^¥UaXW]



@HWI-EAS443:3:88:633:1723#0/1  
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+HWI-EAS443:3:88:633:1723#0/1  
\_ ^a^]Y]abba`ababbbbaa^^aYDMRTYXLSBBBBBBBB  
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+HWI-EAS443:3:37:1201:964#0/1  
`b`a`\_a^W[`aa`\_ZD[a\_a`a\_[\_`\_\_Gaf^a\_¥aa^`  
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+HWI-EAS443:3:76:801:886#0/1  
^a[¥R`\_^YS^RW¥^\_V\_aa`V`]aba\_^¥a]D[aaa\_  
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+HWI-EAS443:3:20:406:1853#0/1  
¥IXSVP\_ZNOLYXXUXSQ^Z\_ZV^QX`XTXLMTQZZVVL  
@HWI-EAS443:3:28:1127:1248#0/1  
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+HWI-EAS443:3:28:1127:1248#0/1  
^P\_SWZ¥][TL¥]^VU¥X`¥YQX\_OXRU\_UW[XaUZLX^Q  
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GGCAAAAACATAATGGACTCCAACACCATGTCAAGCTTTC  
+HWI-EAS443:3:65:1629:1121#0/1  
a`a`aa`baabaaaaabab`\_aa`aa\_aab^aa\_\_Va``\_  
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TTTTTATCATTAAATAAGCTGAAACGAGAAAGCTCTTATN  
+HWI-EAS443:3:39:1556:917#0/1  
]bb]aXaab`bb¥\_[]¥0^a`W]Kaa`NH¥\_Wb¥`SH]D  
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+HWI-EAS443:3:47:595:144#0/1  
\_[aaU`a`^`[X^`\_\_ba\_¥a\_]\_^UY`¥`[[\_¥\_TZWG  
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CACTGAAGTTCGCTTTCAGTACTATGTTCTTTTCCATGAC  
+HWI-EAS443:3:10:607:50#0/1  
a^`aZaabaab^\_``[¥bTaaa\_^`R^V\_a`\_aZ\_¥U``  
@HWI-EAS443:3:11:566:864#0/1  
TGAAGTTCGCTTTCAGTACTATGTTCTTTTCCATGACCGC  
+HWI-EAS443:3:11:566:864#0/1  
aba`a\_\_ba^a^aaaaX`\_a\_aa]`\_\_\_\_\_a`¥\_\_`^^`X  
@HWI-EAS443:3:11:876:48#0/1  
GTTTTTATCATTAAATAAGCTGAAACGAGAAAGCTCTTA  
+HWI-EAS443:3:11:876:48#0/1  
a^`\_`\_][\_]\_^¥¥[^]^Z[^V[^[^[^XXY[Z[Z[[[  
@HWI-EAS443:3:12:211:322#0/1  
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+HWI-EAS443:3:12:211:322#0/1  
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+HWI-EAS443:3:12:719:756#0/1  
a\_a`aaaaaaa`^U\_\_¥\_^U[\_`\_\_¥\_¥\_¥¥\_[PY^U  
@HWI-EAS443:3:13:104:1958#0/1  
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+HWI-EAS443:3:13:104:1958#0/1  
a`\_^ZXGaa`aa[a^U]aaP`Y^a^`a^[\_PRZ¥``  
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GGTGTTTTTTATCATTAAATAAGCTGAAACGAGAAAGCTC  
+HWI-EAS443:3:13:1180:549#0/1  
`YXa\_a`]^Y^`]^WZa]^\_Y`]^0[\_¥`¥^[\_^¥W  
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+HWI-EAS443:3:13:82:303#0/1  
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+HWI-EAS443:3:13:971:166#0/1  
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+HWI-EAS443:3:14:976:1106#0/1  
`[Y[[Z¥¥SZ`ZS^`^V[]X¥V\_[0^ZZURY\_X\_[-¥[]\_  
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+HWI-EAS443:3:15:1737:1093#0/1  
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+HWI-EAS443:3:15:429:601#0/1  
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+HWI-EAS443:3:15:589:1916#0/1  
abZbbbbbbU]]b¥X¥`abb^`bV`a\_YP`b^Z[aY```a  
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+HWI-EAS443:3:15:668:655#0/1  
aba\_aabbbbaa¥ba`¥bab`baaaaaaZaaaaa¥PZ\_a  
@HWI-EAS443:3:15:769:634#0/1  
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+HWI-EAS443:3:15:769:634#0/1  
abbbabbbbaaba\_bbabaaaa`baaaaaaaabaa\_aa  
@HWI-EAS443:3:15:912:1315#0/1  
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+HWI-EAS443:3:15:912:1315#0/1  
aabbbbaabbbbabbbbbb`babbb`abbb^babbaaa  
@HWI-EAS443:3:16:128:951#0/1  
GTACTATGTTCTTTTCCATGACCGCCTGGTCCAATCGCAC  
+HWI-EAS443:3:16:128:951#0/1  
a¥aa^`\_b\_aaaaa`aa`\_`a`\_a[\_a\_¥^¥^X[\_`\_V`[

@HWI-EAS443:3:16:1568:1707#0/1  
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+HWI-EAS443:3:16:1568:1707#0/1  
`bb`abbabb\_b`ZZb\_a`aaQ`^bbabaaaaaa`XY  
@HWI-EAS443:3:16:629:829#0/1  
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+HWI-EAS443:3:16:629:829#0/1  
abb^ab`aaaaa`b`aaaaaa¥aaaa`\_aaaaa^a\_\_`  
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+HWI-EAS443:3:17:1134:142#0/1  
^aaaa`XR`^^\_a[YV¥`]^`X`¥]^¥Z]U]^]aVYY\_\_]  
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+HWI-EAS443:3:17:1189:232#0/1  
a\_R\_\_abaa`^`a^W]^a`¥]^\_`^`\_a`UZaaYS`U`]]  
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GGTGTTTTTTATCATTAAATAAGCTGAAACGAGAAAGCTC  
+HWI-EAS443:3:17:1198:255#0/1  
^a\_\_Xab^bbbbX¥baZ¥K`a`¥baTXZ]^a^W\_a`^M  
@HWI-EAS443:3:17:1715:423#0/1  
ATTAAATAAGCTGAAACGAGAAAGCTCTTATCTCTTGTTTC  
+HWI-EAS443:3:17:1715:423#0/1  
a`b]aaa\_ab\_ab\_a`aa`b\_\_]a`\_\_aa\_a\_a[a\_a]`]  
@HWI-EAS443:3:17:452:122#0/1  
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+HWI-EAS443:3:17:452:122#0/1  
aa`aYaaaa`^`[^\_X^\_U\_a]\_\_`\_`^`^`^`\_`\_`\_`]^`^  
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GTTCTTTTCCATGACCGCCTGGTCCAATCGCACGCAAAGA  
+HWI-EAS443:3:17:486:1566#0/1  
a\_bbbbaaaaaab`]^`aa`aa`aZ]K¥a`a\_\_a]^`[`a¥`a  
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+HWI-EAS443:3:18:880:324#0/1  
aaa]aS[aaaabZ\_\_aaa[\_\_aYS`N¥aUZ]¥¥VUMXS¥Y  
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+HWI-EAS443:3:19:957:1330#0/1  
U`b\_babbbba`ababbab`ababba`][baaaa`\_aa^  
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+HWI-EAS443:3:1:1383:776#0/1  
a`aa[\_]\_b[\_`^S[`YSX]^`W^[[aab]U``]]^BBBBB  
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+HWI-EAS443:3:20:1263:236#0/1  
aa^aaa]a`aa`^`a`^`^`\_`]]a^a^\_`^`^^^V  
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@HWI-EAS443:3:25:856:666#0/1  
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+HWI-EAS443:3:25:856:666#0/1  
aab`ababaaaabZa\_ab\_aa\_^a^a`a^a^`¥a]a\_`\_  
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+HWI-EAS443:3:26:1554:1161#0/1  
`Lbb`ab`ab`bbbb`bbba\_^aaaa¥b`ab`b`bbb\_a  
@HWI-EAS443:3:28:1260:1384#0/1  
CATTAATAAGCTGAAACGAGAAAGCTCTTATCTCTTGTT  
+HWI-EAS443:3:28:1260:1384#0/1  
```bbb`\_ba^R[^`aW`abXMUV¥]\_]a]X]\_aaa]\_  
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CCGCTGGTCCAATCGCACGCAAAGAGGGCCTATTATCTT
+HWI-EAS443:3:28:603:734#0/1
aa`aa`ba`a`aaaaab¥a^^a`^^^`a`^^`¥a_
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`^aUW_VSaa]Saaa__aGLVZ¥Q__^[ZYV]L[a]U_^P
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+HWI-EAS443:3:29:645:1472#0/1
aaa^_Za``]_aaa]_¥`a`a`^YZ_]Xa`__`_^`]__
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@HWI-EAS443:3:30:188:835#0/1
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+HWI-EAS443:3:30:188:835#0/1
a¥aaa`Y^¥¥bbb]baa`aaabaYa`aaaa^aa`____
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GACAAAAACATAATGGACTCCAACACCATGTCAAGCTTTC
+HWI-EAS443:3:30:525:797#0/1
][a`¥^a`a_baba`_¥``babb_^_aa``^bb^a^`_Z_
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+HWI-EAS443:3:31:1171:623#0/1
abb]Zaaa^_aaaY_aaa^a`b`aaa`a_aab¥¥Ya`a_
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+HWI-EAS443:3:31:1326:1009#0/1
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@HWI-EAS443:3:31:318:1181#0/1
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+HWI-EAS443:3:31:318:1181#0/1
aa``^aaa_a_a_Y]aaaX¥ZWJXP¥U`]_W^[_XN[S]
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@HWI-EAS443:3:34:1413:27#0/1
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+HWI-EAS443:3:34:1413:27#0/1
K¥`bb^¥aa_b`bba`_XbbaaabV``aba][baa^a_a
@HWI-EAS443:3:34:588:612#0/1
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+HWI-EAS443:3:34:588:612#0/1
a^a_`_^`_`a]a_]````_`___`_a__`Z`W^]_¥^Y]
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+HWI-EAS443:3:36:293:1085#0/1
aaaa`R`bV`a_aa`aaa`_aU__^`a¥___^`_`^Y¥^
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+HWI-EAS443:3:37:1694:1509#0/1
a_b^aaaaa``¥`a`a__`_^¥¥__`_]aX^Z``X]S`]]
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+HWI-EAS443:3:38:1069:914#0/1
a^aaa^ab`aba`¥¥aaa_`]^aa_aa`X[POW]W^_¥_`^
@HWI-EAS443:3:38:63:1212#0/1
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+HWI-EAS443:3:38:63:1212#0/1
aU]W¥¥X[^¥Y__`¥]¥``_S¥XU^_Y`X]Z^Y¥¥^[[VU
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+HWI-EAS443:3:38:893:52#0/1
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+HWI-EAS443:3:39:1391:1435#0/1
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+HWI-EAS443:3:39:756:375#0/1
a]b_]aaaa`[^`_`a]`_a__`_]a`U¥`¥X¥UX_¥_XV
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+HWI-EAS443:3:3:1225:950#0/1
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+HWI-EAS443:3:3:1230:1699#0/1
^ZZ`^_aa^aa¥Y[_`___a_`_[^_]``_]`]]]]^_U
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+HWI-EAS443:3:3:723:780#0/1
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+HWI-EAS443:3:46:117:743#0/1
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+HWI-EAS443:3:46:1722:1942#0/1
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+HWI-EAS443:3:46:1744:1291#0/1
a``aa^a`_aaa]`_``aaa^aa^__^__^_]__]a^_Y^
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+HWI-EAS443:3:46:504:461#0/1
`_a_Wa__`U`_`___aW_^a__S__^_^¥^]_W_¥Z^W_
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+HWI-EAS443:3:46:57:1643#0/1
a]]b[aaaa_a`a`_`[`aa¥]`_`aa`aa`^`__^Z¥_T
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¥`bab`bbbbbbbabbaa¥``aababbaaaaabbaaaa
@HWI-EAS443:3:47:1759:197#0/1
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+HWI-EAS443:3:47:1759:197#0/1
aaabHTTP[```__`aaYaX¥Sa]a_¥^Y``_] ^NV]]R YR
@HWI-EAS443:3:47:684:524#0/1
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[]_a`¥b_aba¥]Z]]¥Z¥`a_a__a]]][Z^_]__`UV^]

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_ZR`T`_aa¥YYZaZ[U]a_`_`PRX[`Y]Z¥_[WYY[UZ
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+HWI-EAS443:3:48:346:1224#0/1
[^VJQV^a¥X_aYY^^Z`b`WS[a_Y^^aY`_`_Xab`_K
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+HWI-EAS443:3:49:148:1774#0/1
HYaaba_aa^a^¥`¥baS^`_ba¥¥^b`a¥^bbbbbab]Y
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+HWI-EAS443:3:4:1592:198#0/1
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+HWI-EAS443:3:4:475:1369#0/1
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_aaaab]^`_bbabbab_Q_bb¥aVbb^b_]XabJb`bTbb
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_¥_aaa]^`a_WV_aaaVaZ^X¥[a`a^WZZ[^T[]RVWQ
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@HWI-EAS443:3:55:1439:1814#0/1
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+HWI-EAS443:3:55:1439:1814#0/1
a^a^`U_`___^^a^aT¥`¥`V]^^_YYVIWW^[[[Z[
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a__a`aa_`_`aa^__a__]__^__]__^[]]_W_Z^]]
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+HWI-EAS443:3:55:1779:973#0/1
__a_T`b_TO^W_b_]V``Zb^WZ_TZ[_]ZbW`abaaaa
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+HWI-EAS443:3:58:804:797#0/1
a`baab_¥aaaa`aaa__b_^W__a^aa`a[`a_`aYa`
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+HWI-EAS443:3:58:836:1720#0/1
a¥`T_¥Y[___^`_W]^]VTVV^^^ZVYV^[XXXXXZ]
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a]_X^]Z¥Z_`[UW^a_^YU[¥U¥]OYSZ][]WY[WLSWU
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a`Y¥]`____`__^`^¥P¥__TX_WY]_`_]^[Z][^[[W
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a`^ab_Wa]_a^a`_W`_a`a^^Z^`_]__ZZ__^^[G_¥[
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+HWI-EAS443:3:65:800:356#0/1
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+HWI-EAS443:3:66:1380:1256#0/1
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a`a`aaaaaaa_`aaa_aa`_`_`a__¥Y`_`^[Z_]_Z`
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^]Z¥Y¥_S`Z]`_¥¥Y_a_W¥W^aa`^Waa^U]_VZ^__^
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+HWI-EAS443:3:75:1464:440#0/1
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+HWI-EAS443:3:76:161:1068#0/1
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@HWI-EAS443:3:76:69:813#0/1
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+HWI-EAS443:3:76:69:813#0/1
__`a`aa_[`aS`__`_¥_a`__`^0¥NW¥¥¥WV¥¥U^W
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+HWI-EAS443:3:77:315:1545#0/1
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@HWI-EAS443:3:79:1059:969#0/1
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+HWI-EAS443:3:79:1059:969#0/1
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_`bbabbb`_R]bbbaa]`b_a¥``_a_a_a``_baaaaa
@HWI-EAS443:3:80:559:689#0/1
GACCGCCTGGTCCAATCGCACGCAAAGAGGGCCTATTATC
+HWI-EAS443:3:80:559:689#0/1
¥]_``^_Z^XZ^____`¥_^]Z_abaaaa¥_XX]¥`bba`]

@HWI-EAS443:3:80:670:285#0/1
AGATAATAGGCCCTCTTTGCGTGCGATTGGACCAGGCGGT
+HWI-EAS443:3:80:670:285#0/1
_`a`Z`aaaaY`a`^`aZ]^a`X]a_VQSZ^BBBBB
@HWI-EAS443:3:81:1266:1578#0/1
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+HWI-EAS443:3:81:1266:1578#0/1
aaaa_`baaa`aa`_S^a__Y]¥`^Y_]__`_`_¥^]
@HWI-EAS443:3:81:1339:1221#0/1
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+HWI-EAS443:3:81:1339:1221#0/1
W^YX^ZP^Q^b_] [¥^^X][a_aKX¥```OG`]]^^`ZV¥
@HWI-EAS443:3:83:538:1882#0/1
GAAGTTCGCTTTCAGTACTATGTTCTTTTCCATGACCGCC
+HWI-EAS443:3:83:538:1882#0/1
^^_XT]a_abaaa`a_baaba`]aabaaaa`a[a]b_a_
@HWI-EAS443:3:83:921:575#0/1
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+HWI-EAS443:3:83:921:575#0/1
T^`aabaabUaaaa_ab`Vaba^Z`¥`^a_[¥__a_``_
@HWI-EAS443:3:84:1742:1563#0/1
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+HWI-EAS443:3:84:1742:1563#0/1
P_¥R]QQ^R[`¥bUUU¥Z^bb¥babb`¥_Z`K`b[_`__a
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+HWI-EAS443:3:85:193:1858#0/1
^abbbba^`_OIQ`U`Xbaa`aaaVQVXXVa[[a¥RZX
@HWI-EAS443:3:85:640:1534#0/1
GTGTTTTTTATCATTAATAAGCTGAAACGAGAAAGCTCT
+HWI-EAS443:3:85:640:1534#0/1
aY^]aa`aaa_aaaabaaa_`_`a`]a^`]__^_a`W`
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+HWI-EAS443:3:86:1262:392#0/1
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+HWI-EAS443:3:86:650:676#0/1
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@HWI-EAS443:3:86:672:80#0/1
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+HWI-EAS443:3:86:672:80#0/1
a^bV`^a]aa`¥aaa]W]aYL_Y]aU`_Y___YNR_U]Y`
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+HWI-EAS443:3:90:932:393#0/1
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a`b`_abaaaabaaa`aaa^aaa_a_aaT_____[-]`^`W
@HWI-EAS443:3:91:467:1679#0/1
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+HWI-EAS443:3:91:467:1679#0/1
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+HWI-EAS443:3:91:566:1217#0/1
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a^`bb^^_[bbaa`abaa`a`aba_aabaaaaSaa_a_
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+HWI-EAS443:3:97:973:1847#0/1
a`aa¥a^^`ZS_aa^]a_a¥`X`_a¥¥`_¥MS¥Z¥`¥OB
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a`TZa[Y_¥X`baa`Z_a_a_aa_aYa[Y`S^Qaa_[^0

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+HWI-EAS443:3:8:220:374#0/1
^R]U¥YDV`^¥Q^`QQ]¥]Y[OZU]TVRTSSYJPSY¥[TB
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+HWI-EAS443:3:94:598:184#0/1
a_XNX^[IMZ¥Q]QPHZO[OV`SWP[VPOFPS^GNYYWYB
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+HWI-EAS443:3:87:665:1536#0/1
`_RUZWHWDSYY__T¥]^URV`[]PYWVUJ_`a]`WVPF
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+HWI-EAS443:3:88:1540:1827#0/1
aa_QY_bb¥`aZU^b[b_]ZOaW[`bb_JbIK_¥aLaa^`
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+HWI-EAS443:3:12:697:410#0/1
S^_¥aZaVa_X_^L]]Z_]`_VXbbba`_S¥]Z^bb`_HZ
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+HWI-EAS443:3:100:117:1925#0/1
a`b^``aaa_¥aa^^a`_aa^`a`^^`_`__^^__BB
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+HWI-EAS443:3:1:637:18#0/1
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+HWI-EAS443:3:1:792:1504#0/1
aa`[^YY`^^aa_`¥a`ZDT__`^^`_`^NZ¥`¥aBB
@HWI-EAS443:3:27:327:1749#0/1
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+HWI-EAS443:3:27:327:1749#0/1
S¥abbaba`abaSU[]bab¥XWbbababab¥^`baaa`a
@HWI-EAS443:3:28:1265:1320#0/1
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+HWI-EAS443:3:28:1265:1320#0/1
]Y[a``]SZ]`VYU_S__`a[]_]¥a`a``^X]]`YR
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+HWI-EAS443:3:36:799:778#0/1
`a_aa_S^aaaaaaaa_aa`_a^a``[T]^`__^^`__`_`_
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+HWI-EAS443:3:45:202:176#0/1
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^K`^bab[`U¥^^_b]a^YS`Sa_VY]NZa`HV^[a_]U^
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+HWI-EAS443:3:48:1096:1598#0/1
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+HWI-EAS443:3:100:1355:1612#0/1
aa_]T¥JYa`__USYU^¥YVUT¥a]^`OFU`X_H^]]B
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a`aaaaaaa`___aaa`__`a`___a`^X^^`X]]`_Z
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+HWI-EAS443:3:63:1158:1544#0/1
]`ab__aX`a`_¥_¥_¥¥0YZba^]NR¥DF[^Ya``Ya`
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+HWI-EAS443:3:94:286:1785#0/1
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+HWI-EAS443:3:19:20:1232#0/1
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CAATCTTGCAAAGGAGAGAAAAGCTAATGTGCTAATTGGGC
+HWI-EAS443:3:29:1124:199#0/1
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+HWI-EAS443:3:35:1612:534#0/1
a¥_`_]__`_]babba]a`aXaaa^ab_baaa^bbb^^X^
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+HWI-EAS443:3:51:1373:985#0/1
SaW¥^I¥aab[[`Ua]bba_b]aZa]¥_I__bba]b^^_Y
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+HWI-EAS443:3:62:1050:1155#0/1
``aaaa`^a_a_aaaaaaaaa_a`a``__a`_``[`]_`a_
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+HWI-EAS443:3:76:151:555#0/1
_XZabab`bbabaaaaab^baa_aa`aa`a`_a`a`]__Z
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+HWI-EAS443:3:10:604:1159#0/1
```aa`\_aaaa`]YY[V]a^]^^\_^]]^X\_]\_]\_X^¥Y^  
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+HWI-EAS443:3:10:651:1547#0/1  
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+HWI-EAS443:3:12:1061:1880#0/1  
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+HWI-EAS443:3:13:579:775#0/1  
aa\_aaaa\_`aY]a\_\_^^`a`\_\_]`\_`\_\_\_\_]^^`\_`Z^^  
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+HWI-EAS443:3:15:141:987#0/1  
\_Y¥aM^UYZ``VX`]¥`ZVNYZ^Z`\_`]\_¥^]ZR\_`a`Ya  
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+HWI-EAS443:3:19:1265:702#0/1  
aabb^¥a```aabaaaa[baaaa]\_aa`\_a`a`a[¥aa  
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+HWI-EAS443:3:21:18:27#0/1  
a`abbabbabbbabaaaaab^aa`\_a``aaaa`a`a`]  
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a\_b`aaaabaabaa]¥`aaaa\_aa\_\_aaa\_`\_a[]]Ya`  
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+HWI-EAS443:3:24:729:1004#0/1  
aaaa`a\_`a`X]\_Z\_`aZ\_\_a^a^\_\_aa[`\_^]]]¥  
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+HWI-EAS443:3:26:1326:93#0/1  
a`W`aa\_a\_¥\_\_`\_^`¥`V]a\_^\_V`a`V\_Vaa\_\_X\_\_  
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+HWI-EAS443:3:32:680:255#0/1  
\_Q]T^aa`[aT¥\_QUNSV[\_YY`W¥YY^\_Z^Z\_ZVZR^^[  
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+HWI-EAS443:3:40:707:1931#0/1  
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+HWI-EAS443:3:46:445:396#0/1  
¥\_\_`aZaabb`aMb\_Z^`\_babbabb^baXQ]`b`Q`  
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aab\_T]abbbaa^Y¥]^ba]¥\_a\_\_aaaZa\_RZ`\_]Y  
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+HWI-EAS443:3:49:622:334#0/1  
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+HWI-EAS443:3:51:1526:848#0/1  
`][[\_`\_aa\_\_\_\_]^QY\_^`V^`\_^]`¥a]^`\_^X^]  
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+HWI-EAS443:3:51:658:1900#0/1  
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+HWI-EAS443:3:5:184:765#0/1  
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+HWI-EAS443:3:62:1390:93#0/1  
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^X\_TO¥`^0¥bTKZO\_V\_aG^a`Y[^\_]^[ZN^¥\_Z^^¥[  
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aaa`bbbaa^aaaaa^a`aaaa\_a\_a`a\_]\_aX\_  
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ACAAGAGAAAGCTAATGTGCTAATTGGGCAAGGGGACGTA  
+HWI-EAS443:3:76:452:832#0/1  
^a]aaabb`aba^\_\_^¥`a`a`Z\_^aa`aaa\_a`[a^\_



@HWI-EAS443:3:78:475:1206#0/1  
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+HWI-EAS443:3:78:475:1206#0/1  
]^a^ab\_KW^bb[baabaa`W`a\_a[\_`\_¥¥b¥a\_^Y`G`\_  
@HWI-EAS443:3:84:979:1144#0/1  
GACAAAGCTAATGTGCTAATTGGGCAAGGGGACGTAGTGT  
+HWI-EAS443:3:84:979:1144#0/1  
`\_R`\_``\_a`aab\_aba`Y]a`^]\_a`aa`W\_aZ^aX`X  
@HWI-EAS443:3:88:1548:1566#0/1  
GANAGCTAATGTGCTAATTGGGCAAGGGGACGTAGTGTG  
+HWI-EAS443:3:88:1548:1566#0/1  
a^D]baababaa\_abbabbbaa]`\_b`\_a`\_ba`a`\_`ab  
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+HWI-EAS443:3:89:1769:1778#0/1  
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@HWI-EAS443:3:8:914:897#0/1  
AGCTAATGTGCTAATTGGGCAAGGGGACGTAGTGTGTTA  
+HWI-EAS443:3:8:914:897#0/1  
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+HWI-EAS443:3:95:1454:1207#0/1  
UX¥T`\_ba]`¥I¥[\_¥¥` ``¥ab\_baabbbK]`aX`\_[DZ`  
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+HWI-EAS443:3:96:412:243#0/1  
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+HWI-EAS443:3:10:854:687#0/1  
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+HWI-EAS443:3:12:1109:1376#0/1  
SYX\_`\_\_`aba¥YD^`a`bb[ `bYba[\_a¥aaJ[aa[aHI  
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ATTAGCTTTCTCTCCTTTTGCAAGATTNCTCAGTTCATTG  
+HWI-EAS443:3:13:629:668#0/1  
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+HWI-EAS443:3:13:740:1239#0/1  
\_`^`\_`a]b^a^D]]Xaa`aaaaZ` `aaX¥[T`\_`\_`\_`\_`  
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+HWI-EAS443:3:16:1371:1500#0/1  
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+HWI-EAS443:3:17:1148:1637#0/1  
a^[`YYbaX¥V]ZDYaa]aaa^\_aaZ¥^b``a`aa`^]`\_`  
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+HWI-EAS443:3:19:1018:654#0/1  
a`¥a\_\_^^^D^]``^`aa`^^Z\_]\_]¥a]Z\_ZaZ\_\_`  
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GAAGTGAATCCTGCAAAAGGAGAGAAAGCTAATGTGC  
+HWI-EAS443:3:1:1006:543#0/1  
a¥^W]]YXZ\_a`XDS]Y¥\_¥X`XY^`a`\_¥\_Z`^^`YBB  
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GAAGTGAATCCTGCAAAAGGAGAGAAAGCTAATNTGC  
+HWI-EAS443:3:23:945:1633#0/1  
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+HWI-EAS443:3:26:640:1539#0/1  
\_\_¥aZ`^ab`ba^`aa`aa\_ab^aa`aa]]DD[^¥\_]`  
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a`aa\_\_aaa`\_^[``aaa`WDSaaa`\_]\_\_aa]a[a¥V\_a  
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+HWI-EAS443:3:47:1378:1421#0/1  
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+HWI-EAS443:3:49:917:1149#0/1  
a`R`[\_aaab`^\_`J\_`a```aaaa^T¥H\_[[DXV^`¥`¥  
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+HWI-EAS443:3:51:375:1619#0/1  
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@HWI-EAS443:3:57:591:1102#0/1  
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aa¥bbabb^DWaa^aaaaaaaa`\_`aa]abZa`a`\_aa  
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+HWI-EAS443:3:60:551:1219#0/1  
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aa`bb`a[[]a`a\_`aa`a^X`a[[]¥`\_`][RDY\_Z^  
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^¥`bb][a`]aaabba[D^aZaa¥aaa`aWaaaY`aaaa  
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+HWI-EAS443:3:79:1253:860#0/1  
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+HWI-EAS443:3:79:1435:1615#0/1  
\_\_aaa`Ya]D¥¥Y`\_bba]b`a`bWb[\_a`abW`\_W[\_  
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+HWI-EAS443:3:80:1288:1634#0/1  
\_aa\_\_abaaa\_aba\_b[DW]abaa\_\_`a`a`\_a^\_`]  
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+HWI-EAS443:3:81:90:1517#0/1  
a\_a```a`\_\_\_\_`a`V`\_\_^\_X^ZT\_^\_^^^]TDR\_^  
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^^b]D^ababb`]^abaabaZaaaaaaaaaaaaa]`aaa`^`  
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+HWI-EAS443:3:87:71:1911#0/1  
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+HWI-EAS443:3:88:497:1436#0/1  
\_``\_Y]D[Z\_¥\_aW^b¥VS`]QZU¥¥`a¥`^a`aa^QX  
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+HWI-EAS443:3:89:415:1127#0/1  
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+HWI-EAS443:3:91:929:1976#0/1  
a`XVT[QSUM[\_RDN^\_^\_]\_`Z]^^X[ ]^\_\_\_\_\_VL  
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+HWI-EAS443:3:92:361:248#0/1  
abWD]^Yaaaa`a\_\_`a\_`\_`aa\_`^`\_`\_`\_]`¥\_]`\_`  
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+HWI-EAS443:3:93:761:1283#0/1  
TV[b^\_\_¥`b`\_`b`\_`ba^YODWa¥a¥X`abbb^a\_a  
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+HWI-EAS443:3:9:1205:1381#0/1  
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a]aaS\_[Za[WXQTPP`Z¥\_Xa`U[U]]^`X\_IDK]]W  
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+HWI-EAS443:3:17:1541:1962#0/1  
`\_]\_\_\_aa`X\_XaP^a¥[\_^^^T]¥^`¥\_\_\_^[ ]LEU  
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[D[ba\_XW`aaa`aaaa`a\_a`^^`a\_]Y]\_`\_`\_`UOR  
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+HWI-EAS443:3:2:1159:1991#0/1  
WbM]bu[b`baa[`Tb`aa`b`aa^aX^\_^]aVb]\_b`G^

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+HWI-EAS443:3:32:481:1010#0/1  
O¥Y]¥Z[V[TVWU]Z\_¥ZQ\_¥H¥VZNX`YMW^VTT]`ZFY  
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+HWI-EAS443:3:34:1405:2043#0/1  
a`^baa`\_Ya`abba`aa\_\_aaaaZ\_^UaBBBBBBBBBBB  
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+HWI-EAS443:3:34:1529:1448#0/1  
]¥`\_X\_¥`\_`\_`\_^aaba[X`]X[]aXaTa\_`YBBB  
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+HWI-EAS443:3:42:456:1513#0/1  
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+HWI-EAS443:3:48:219:162#0/1  
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+HWI-EAS443:3:49:1017:292#0/1  
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+HWI-EAS443:3:54:1217:919#0/1  
S``¥a``Y\_[V^^T]a¥^¥\_¥^a][¥YR^¥aQP`a`b`]R¥  
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+HWI-EAS443:3:57:1442:35#0/1  
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+HWI-EAS443:3:63:69:1469#0/1  
¥\_\_\_`bbaa`V`W¥\_WZ`]P\_X\_ZO\_aXa][¥[``\_[V  
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+HWI-EAS443:3:66:556:1084#0/1  
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+HWI-EAS443:3:68:282:1796#0/1  
aa`^aaX`X]^\_a\_\_`ZV]^a`]\_\_¥`¥T]XN\_R]SUG^  
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+HWI-EAS443:3:69:1715:163#0/1  
abbabba`abbabaabab`bbbaba`\_W]`¥``]aaa[a`  
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+HWI-EAS443:3:70:530:351#0/1  
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+HWI-EAS443:3:78:1322:327#0/1  
WTLY```V¥0¥¥^M\_]`[]`Y]aU\_TMN]a\_TY[Z`^^\_]`

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a]`\_aKaa¥^aa\_]TZ\_\_\_\_]aa`]a\_ab\_a`H`Y`aYDT  
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a```\_\_ab`a\_aa\_\_a```]aa¥a`^```aa\_\_^^a^`\_  
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a[`[a\_X^baa]aa`^abaaaa[^aaaa```[Ya`\_aY\_  
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G[^b\_a\_a^b¥bZ\_UZWZ\_baY\_Z\_b\_bba`bX\_Z`\_`bb  
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+HWI-EAS443:3:36:1379:176#0/1  
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+HWI-EAS443:3:100:984:923#0/1  
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+HWI-EAS443:3:10:1257:820#0/1  
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ab`X`bbaaaZbaab¥Y`aaaaV^\_Y`\_`\_a`\_`\_aa`dWa`  
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+HWI-EAS443:3:16:544:241#0/1  
^\_abbbbbbabababab`aba\_a\_bbabaabaaa]a```a  
@HWI-EAS443:3:16:593:713#0/1  
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+HWI-EAS443:3:16:593:713#0/1  
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CTGAGCAATCTTGCAAAAGGAGAGAAAGCTAATGTGCTAA  
+HWI-EAS443:3:16:59:206#0/1  
aababaaaab`aba`a`aba```aa`\_a\_\_a^aa]a`\_^`

@HWI-EAS443:3:16:655:356#0/1  
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+HWI-EAS443:3:16:655:356#0/1  
`\_\_Z]]¥`aZ^aa`ab\_] ^U`Y`]]`aa``a[`\_\_\_\_  
@HWI-EAS443:3:16:732:297#0/1  
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+HWI-EAS443:3:16:732:297#0/1  
\_aa`aa¥``aa`a[]a`a`]\_``a\_\_^^[\_\_\_`\_^\_\_^\_Y  
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+HWI-EAS443:3:16:771:965#0/1  
a`a`aaaaabaa\_\_`\_aaaa^a`a\_a\_\_\_\_`]^^`^^]]  
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+HWI-EAS443:3:16:873:1152#0/1  
^`aa\_a`^aUaa\_]X`^a\_\_[\_^a\_\_¥Y\_a]^ZMU]]`SO  
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abXY`a[a[a¥`aa\_aa\_¥\_\_a]a]\_\_]\_aa\_a`[]a^^`  
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+HWI-EAS443:3:16:895:41#0/1  
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a]a`\_aaa¥\_a]Wta`¥[^]^`a\_^^^W\_YX`^aa\_0]Y]  
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+HWI-EAS443:3:17:1384:445#0/1  
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+HWI-EAS443:3:17:139:189#0/1  
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+HWI-EAS443:3:17:1400:531#0/1  
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+HWI-EAS443:3:17:1427:1958#0/1  
aa^^`I¥aR]]\_Y\_^ZH]aXJX[aa]a\_^a\_\_aX[[W\_\_U  
@HWI-EAS443:3:17:1527:343#0/1  
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+HWI-EAS443:3:17:1527:343#0/1  
aZ]\_V[`^]XUXZ`[\_[\_^\_¥V[\_Z\_TV[N[SZ^[RV  
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+HWI-EAS443:3:17:1572:1169#0/1  
aa`a\_abb¥ba\_^`\_`^`\_\_`a\_¥\_]`^a`]^`^`\_`W`W^  
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+HWI-EAS443:3:17:310:582#0/1  
a`a`aa`aa`[`a`\_aaa\_Z\_a`¥a\_a`\_`a^`]`^`\_Z\_Z  
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+HWI-EAS443:3:17:415:100#0/1  
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+HWI-EAS443:3:17:435:1439#0/1  
]\_\_\_\_ab`]bb[F\_\_\_\_^`aab`\_Z^aaa^\_Z`aYaaVa^\_a

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a^Taabaaaa[aaaaaaa[a`¥^a\_aa]\_a^^aYa]a`  
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+HWI-EAS443:3:17:569:1684#0/1  
\_ZaZZMX\_[¥[\_I^U^`Q\_\_X\_a`aT]bSXJZVVYJ^VN¥  
@HWI-EAS443:3:17:677:1102#0/1  
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+HWI-EAS443:3:17:677:1102#0/1  
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+HWI-EAS443:3:17:679:441#0/1  
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+HWI-EAS443:3:17:819:1351#0/1  
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+HWI-EAS443:3:17:829:815#0/1  
\_`\_[XH[^`\_`aaXaI\_a]aSab¥^\_`^^`W``aW\_]\_] ]]  
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+HWI-EAS443:3:17:900:1397#0/1  
^Y`]VR¥b` `[Ua¥T\_aP`a^aV`¥]H\_a\_aba` `a\_P^]  
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+HWI-EAS443:3:17:956:1004#0/1  
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a^aa`aaa`a`\_`aaa`aa`\_`aaa\_\_`[ `a`^a`aa]^`^`  
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+HWI-EAS443:3:18:1274:1221#0/1  
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+HWI-EAS443:3:18:1300:41#0/1  
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+HWI-EAS443:3:18:1448:1707#0/1  
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^^^bY^T^]YZ]S^^Pb`aaZ]\_RaS]\_a^`X\_]^^`\_]`  
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Yabb\_XVXV[^SWa`ba\_]a\_bY``aU\_[]`a^`¥```Na^  
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+HWI-EAS443:3:18:1747:1442#0/1  
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+HWI-EAS443:3:18:28:1019#0/1  
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`V_baaaba^bba]babaaba```aaa¥baabaabaaa_a
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+HWI-EAS443:3:18:391:1155#0/1
a_`baaab`aba_^`b`]a`¥^`_`aa````a^`_]`_``_`
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+HWI-EAS443:3:18:409:724#0/1
a_`bWQY`Ta]^^^U`Z`a`S_X_]`]Y`_^^^UZ¥_
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GAAAGCTAATGTGCTAATTGGGCAAGGGGACGTAGTGTTG
+HWI-EAS443:3:18:427:1336#0/1
abaa`aa][aX_`a_a`a`_`_```Ja___^^_TL[H`Z]^
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`P_^_a_U_a_a`___a`W__0__¥_^VR__^_]W^]]ZZ
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_^ababaaa_bababa`[aa][`_aa`aaa`aa^`___`
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S_a``]b`^_aZaabaa`¥[`]__aa_b¥^aa_aa^`aa
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+HWI-EAS443:3:19:1215:783#0/1
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+HWI-EAS443:3:19:1395:163#0/1
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V¥WHR]_V¥aa]b]^T`]bb_¥`Y`^_a^]^ [QTHZ]`aa
@HWI-EAS443:3:21:198:1890#0/1
GAACTGAGCAATCTTGCAAAAGGAGAGAAAGCTAATGTGC
+HWI-EAS443:3:21:198:1890#0/1
RT¥^ZR]^`a`¥S_aaYS[a`__¥`_`¥bV_aa_V[`S
@HWI-EAS443:3:21:34:1424#0/1
GCATCAATGAACTGAGCAATCTTGCAAAAGGAGAGAAAGC
+HWI-EAS443:3:21:34:1424#0/1
aaYyb_a_T[___SVS`_`_a]`][[^¥Y¥Y^X^`^ZWW
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+HWI-EAS443:3:21:432:1620#0/1
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`][^¥RFV¥`^T[P]W_Ua]Y]^ [YZWVRVXFU¥RXBBB
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+HWI-EAS443:3:21:505:690#0/1
abaa``aaa`_a__aa`aaaaa`_a^__a`^aa`a_^_[_`
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+HWI-EAS443:3:21:53:1109#0/1
aaaaaaa`_a`a[a`a_aaaaaa`a0_aa`_`^`aYaa`_`
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+HWI-EAS443:3:21:648:1421#0/1
aa]^`^ [ZY_NRW[`¥`ROXZ^X¥[Z[NY]XRTKDVP¥BB
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YY¥[`RFY_YW[_^baa¥P¥a```a`]XN¥YV` [ZRYYB

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+HWI-EAS443:3:21:897:1239#0/1
a_X^^X` [abbaaaa`_a_aab```aaaab[_aa_Y^aa
@HWI-EAS443:3:22:1121:308#0/1
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+HWI-EAS443:3:22:1121:308#0/1
`bb]bbb`^bb_ba`abL`^` [¥`Ua]a^¥_`]aaUXaP_
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^VX_^QU¥VNWV`¥V_US¥^]]X¥SY]N_H`a]]XMWSVO
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+HWI-EAS443:3:22:1316:1361#0/1
Z_baba[aa`U¥a]_ZS_`ba`a]^aaaaa`____a``]a
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+HWI-EAS443:3:22:1343:2041#0/1
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+HWI-EAS443:3:22:1408:1858#0/1
¥F[abb]U__[]_T_^TWWZ_UWZP^OZZ]_WXLRL]^¥ab
@HWI-EAS443:3:22:1457:1453#0/1
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+HWI-EAS443:3:22:1457:1453#0/1
Z¥` ``_abba_]T__[^¥¥a`a^]^`¥[J¥_ ^Z^^]aa]
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+HWI-EAS443:3:22:1674:415#0/1
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+HWI-EAS443:3:22:403:443#0/1
ab_¥aaaX`abUa]_[aaa`W]])`a]aa__aY^`Tbaa`
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+HWI-EAS443:3:22:423:196#0/1
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+HWI-EAS443:3:22:500:386#0/1
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+HWI-EAS443:3:22:55:1698#0/1
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+HWI-EAS443:3:22:638:1082#0/1
a`a``aa_aa_^a_a``_`a`__^]_`_]____]^``_`_^_
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aVZaTaW]a`a]¥P[^]_¥][W`_`_]____`aR`__]] [¥
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_a^^aaaaa`ab[Y^ab`baaaa`_aab_aa]Xa¥_aU`]
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+HWI-EAS443:3:22:788:1140#0/1
`^aZP____][`_a¥Y`U````_`__`_`[``¥YXU]`¥]^]`^X`

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aab`a`_b`b_a`aaa[a`a_aa_a`a`^`_`_]`__`_Z]R
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+HWI-EAS443:3:22:929:1483#0/1
``]U¥a_b__bb^T]bbbaa]a``a]^baa]_aaa_Z
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+HWI-EAS443:3:23:1213:1407#0/1
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+HWI-EAS443:3:23:1331:699#0/1
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+HWI-EAS443:3:23:1435:228#0/1
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+HWI-EAS443:3:23:1472:1993#0/1
a____V¥a]_]_a]_``aaa`__W]____`YSaW^WY_`UUU
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+HWI-EAS443:3:23:1516:845#0/1
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+HWI-EAS443:3:23:18:235#0/1
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+HWI-EAS443:3:23:26:1795#0/1
a`]`_b¥^[Pa`aaaa`[`UT`a`^X]_`V^aR`Z_[YG
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+HWI-EAS443:3:23:502:1657#0/1
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+HWI-EAS443:3:23:563:1413#0/1
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`a`^^b`ab`_]aaaa^¥Z¥aaaa¥[Z]]¥`[a`[¥^X
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+HWI-EAS443:3:23:869:947#0/1
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_`¥bbabbbb`[S^]b]bbbb_b`Z^aabb_a`a_aaa
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+HWI-EAS443:3:24:1051:834#0/1
]_a__¥a_a_]baaaa`Y_aa__aaaaZ^]a[W`Q_Z_]`
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ab_b_`_]aa_^_aa^^^aab^`_`aa`a_aa_`a[YZ
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+HWI-EAS443:3:24:1551:1822#0/1
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+HWI-EAS443:3:24:1665:756#0/1
^^^ZZ^XVO_aaW]`Y_a`YVKWX_YYXXSR]_UU`^a_S
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+HWI-EAS443:3:24:1704:1693#0/1
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+HWI-EAS443:3:24:226:1229#0/1
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+HWI-EAS443:3:24:789:407#0/1
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+HWI-EAS443:3:25:1280:1590#0/1
aa`aaaa_aaaaa`a_a`aaaXaUa_```[R#^___Y_
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+HWI-EAS443:3:25:132:431#0/1
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+HWI-EAS443:3:25:1418:1948#0/1
aaabbabbbabbab`babaabVa]a_¥]`aa_a]_a^a^`
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+HWI-EAS443:3:25:1713:745#0/1
[R__bab`b`[aa^OWZ]_aZ[Y`^`aa`T`^¥a`Y]¥
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+HWI-EAS443:3:25:1742:1002#0/1
a^Z_¥`b`b_Q^ba¥`b``]XQQ_`¥X_^Ua]Z¥I`aZN^
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+HWI-EAS443:3:25:343:29#0/1
]`Yba`_^`babaa_a`a`_b_a`a_a_aa_aa^a____`
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+HWI-EAS443:3:25:349:1230#0/1
a_aaaaba[aaaa_aaa_abaaa`UO`Z``]_]aaYG[
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G[a```a`a`_¥X`a`a`baW_Z`b`abb_bbbb`a`
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¥_aabbbbbbbaaa`_¥bbbaabbbbbbbaabbaabbaabb
@HWI-EAS443:3:26:289:662#0/1
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+HWI-EAS443:3:26:289:662#0/1
a`abaaaaa`aaaaaaaaaaaaaaaaaaaaaa__aa`a`_^
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+HWI-EAS443:3:26:436:687#0/1
`ZRR[_]a¥_a_]JX_UY`a`aZ_¥Y`_`_Z]]X_]U^
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+HWI-EAS443:3:26:482:1235#0/1
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a`^`V¥_aa`¥a`Vaaa^^^`___a`a^a¥`U]___a0]]
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+HWI-EAS443:3:26:530:788#0/1
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+HWI-EAS443:3:26:676:1484#0/1
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ZSbb`]_S`_OXZQ^TVW^a]`¥`I]R`]`¥FFZJW_T__
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a]_aa_aaaaa`]`aa[a`a__a`___^a_a___a_U`]]
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a¥¥V`a¥ababbaaba_aa`]a`a_a]a^aaaa_`aS__]
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+HWI-EAS443:3:27:1468:1174#0/1
a`ab]_^X_b^aaab`]¥_a`¥a]X[U][¥`_aa``__a
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__`a`aYb]_aTR¥[[_aZaaa`Q_`b]SQVaV_[`¥R^]
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`baa]baa`_`bba`ba_`aa¥a`__`_aa`a`__`_^`
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a`aa`[_`a_aaa_`aa]aaaa`ba_a¥]b]_a__^___Z]
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a]]`__XTaaaaab¥V_[¥_aa¥_`ZYT^)^`___¥[^]^
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+HWI-EAS443:3:27:951:150#0/1
a^¥bbaab_ba`a_a```a^a^aaa_`¥aU___]a_``_V^
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+HWI-EAS443:3:28:1690:1113#0/1
a¥`P_ab_aabX_____a`_aa_``^a]a^_aXY¥¥VY`_
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T[b^`^a_H_abaa^^`aaI``_`a¥a`a`¥¥Z^^_¥H^
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@HWI-EAS443:3:28:305:1560#0/1
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^`_¥V`aT¥¥H_]_a]Y¥aZTS[`Y[TJZ``]^[_`_Y]Z
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_ba`_Y_aTa¥`aabaaaa^`aa_``]b]_aZ]^_a_T]
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` `aa^aaa_aa^a`^`a`_U] `__¥_] `^`_¥a]V]ZU_
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a` `aaabb_`¥aa^a` `a_] `a[_a_` `][aW_] `a^NZ
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]Y`baaaaaaaaa_aaa`TYaa_aa_¥_Y]___`_`a`___]^
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``][`[R]`_¥Y¥T^[]`^XV¥[a]YYW]_N][V[RW¥Y
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T`]_`bab` `[abaaba]_]`ab_W`_a][`_^bY^]_0
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+HWI-EAS443:3:32:1107:1625#0/1
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@HWI-EAS443:3:32:114:312#0/1
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aa`[_]``ba`¥[a[aaaa_`aa`]a_a]____`_U_VY]V
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+HWI-EAS443:3:32:1201:460#0/1
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+HWI-EAS443:3:32:1217:75#0/1
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+HWI-EAS443:3:32:1389:1928#0/1
Z]abbbba_aabb_aaaY`ababb]¥`bWJXaaa_aa]Xa
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+HWI-EAS443:3:32:1419:582#0/1
`b_b_bbb]_abb¥XYb` `[J^`^]`]¥0[a_]`[`ZP¥
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+HWI-EAS443:3:32:1427:1071#0/1
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+HWI-EAS443:3:32:1447:1476#0/1
aa_aaa]]_T]a`_``]]``_]]`__X^`^]^[YU]YaRX_
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+HWI-EAS443:3:32:1585:853#0/1
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+HWI-EAS443:3:32:1728:475#0/1
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+HWI-EAS443:3:32:348:1285#0/1
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+HWI-EAS443:3:32:648:1823#0/1
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+HWI-EAS443:3:33:1103:1497#0/1
^ba`bWZabbabaa`VZbVab``aab^[_^]a[[ZL]aRY
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+HWI-EAS443:3:33:1108:447#0/1
ab`_]`_^`^^Ubaaaaa`[a`a]`[ZT^XVY_]`_]¥
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^Y¥_`SZabbaa^baa__`bbbaa^aaba^_Za`]a_G`
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+HWI-EAS443:3:34:1237:294#0/1
a_```a_a]^]_a^Zb_0`]_[^_]0¥]]^]V]Y^YXVY
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ab]baX_aaa_T`^^]T]aa`a__WX^__¥SXZ^^^a¥_
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+HWI-EAS443:3:34:364:1633#0/1
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+HWI-EAS443:3:34:629:312#0/1
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+HWI-EAS443:3:34:976:262#0/1
^¥`^a^X`^Yaaa]aaa`a`a`_`a`]¥Y_aU[^`^_WZ^ZR
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¥[^`a`aab`abaabaa`[_R^aa```aa`a¥a^][a]_
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+HWI-EAS443:3:35:1697:828#0/1
``_S^bb[^`_]¥`]a¥aZ¥`a^[Za^U^_aa__¥T[^SZ

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+HWI-EAS443:3:37:1425:515#0/1
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+HWI-EAS443:3:43:750:1307#0/1  
aa\_^\_\_a]]a`¥`¥`\_`^`^`\_`^^U`^VaZ^¥`\_X^^\_\_  
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a`\_a`aaa\_aaa`\_aaa`\_]\_^a`a`^\_a¥^`Za^a``Z]  
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a`a`a^]aaa\_aaa`a[`]V[a`]a```\_^a^`]^`\_]aV  
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]RT[^¥]¥\_[Y¥Z^b`Z\_ZZYa^S\_\_bb^^ba^NPU\_\_]U  
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¥X`^^\_TV]b`b`X¥XQT\_\_`\_\_a^aaba^T¥`^YaVYU  
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+HWI-EAS443:3:46:189:113#0/1  
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\_X]]\_YOSZ[W`PY`aaXQ[VFYX[XSOTP\_XXT]SVQU^  
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+HWI-EAS443:3:47:1073:593#0/1  
abbbbaabbbb`a`abbabbb`\_]\_aba\_babaaaa^baaa  
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GAAAGCTAATGTGCTAATTGGGCAAGGGGACGTAGTGTTG  
+HWI-EAS443:3:47:1171:99#0/1  
a`a\_a\_aa\_ab]a\_a\_\_`a``]]]Va\_\_\_YV\_YV\_Y\_Y^^  
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+HWI-EAS443:3:47:122:1016#0/1  
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+HWI-EAS443:3:47:1236:1550#0/1  
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`[^`^b^Z``aaa`\_`\_`abaaaa¥¥Y]`a`a^][`X^\_[  
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+HWI-EAS443:3:47:1647:1289#0/1  
ab\_^baaaabaaaa\_aab`\_V\_\_aa^`a``\_a^`\_]``Y  
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+HWI-EAS443:3:47:1765:1084#0/1  
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+HWI-EAS443:3:47:255:318#0/1  
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+HWI-EAS443:3:47:344:1713#0/1  
]^YXa`TabbbbaIb``][a[`Q`]aaa¥X`Sab]^aR`U  
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aaaaaaaa`baa`\_]\_\_aV^\_\_`\_`\_]\_\_`a0\_\_\_\_\_^\_^  
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+HWI-EAS443:3:48:1111:426#0/1  
a\_aa\_`aa^a\_a\_]`a\_`\_\_\_\_]a]a\_`^```\_]]]`\_`\_  
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[^aaaba\_`aababa[b`bbbabWb\_bbaba`[\_abaab  
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+HWI-EAS443:3:48:1422:194#0/1  
aa\_aabaa\_aaa`^aaa\_a\_aaaZa^a\_ZaaZa^a\_^\_]\_  
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+HWI-EAS443:3:48:1444:1142#0/1  
\_V][QWWZXS^`\_Z¥RU¥Q`Z]ZXZ^¥UUPTZX]¥L^NZR  
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+HWI-EAS443:3:48:1558:1153#0/1  
WVaWa\_`¥`\_\_V[QQ[^U[[]¥\_I^X¥\_UZ\_X\_dW]]^`  
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+HWI-EAS443:3:48:1612:672#0/1  
^\_WZ¥^¥¥¥X]W]\_b]\_WXZa\_XQX\_aYO]]]]aTRY` `a  
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¥K\_T¥Xbab¥`T`RWYa`b`[aa\_TbaaaabbYaIa]]a¥  
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¥¥a``¥a`baa`b`\_aba`a\_aaaa\_¥a\_a¥aaa^a\_\_\_a  
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+HWI-EAS443:3:4:741:1250#0/1  
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a\_aa`aaaa`a\_a\_`a^`a`\_`\_`\_`\_]\_\_\_\_^`\_`\_\_^^]  
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¥[\_¥^aW¥]\_\_bba¥``\_aaYX]Z¥\_^]a[] [aa[Y¥  
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\_¥¥¥¥`¥¥`]baaaba`¥`]T`aZ\_X[a^`a¥a\_aa^  
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+HWI-EAS443:3:58:45:1766#0/1
[_`^`^_baaaa]V_a^`^¥a```Z]_```aaZX_aa_`^Z
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+HWI-EAS443:3:58:461:1565#0/1
_a_abababaa¥aaaaabaa[`a_a¥]aaa_a_`a[`^`^`
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T_`a_I_ba```¥]_bbaa`aa^aba``b[`^`[`¥^aaZ[
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+HWI-EAS443:3:58:468:1970#0/1
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+HWI-EAS443:3:59:1771:1520#0/1
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a^ba`a]T_bbabbaaa_aaaaa`_bab[aaY``a]VU]_
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+HWI-EAS443:3:60:553:1691#0/1
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+HWI-EAS443:3:60:752:1099#0/1
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]R]]QXX\_\_¥\_]\_Y\_¥^^^^``¥a]]]```\_\_aZU[Y\_^  
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aa^aZY[``^]Z¥`\_`a^```YX]Z\_\_ZV]a```aa`\_`a`  
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a``aabaa``aaaaaaaaaaaaaba`a`aaaaaaaa```a  
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a^XaZY0\_¥Z¥Z`aaa`]Qb`b^]¥T^Ta`Y\_^\_aS][  
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a`aa`^``^``^``aabaa\_a\_\_a`a`a`a`a`\_`aaa\_\_a```  
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a`\_`[\_`aa\_`a`a^`]a\_aaa\_a^^a^```\_`VY\_Z[]  
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a`)[`aaa`aaa`aa\_a[a\_a^aaaQ^\_^\_a\_^b`\_a¥\_  
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+HWI-EAS443:3:80:194:586#0/1  
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+HWI-EAS443:3:80:275:1839#0/1  
^b`a^a^`^`\_aY`abba¥aa^aa`¥^`^`V\_aaaaa¥]U^  
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+HWI-EAS443:3:80:35:747#0/1  
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+HWI-EAS443:3:80:370:68#0/1  
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+HWI-EAS443:3:80:530:1127#0/1  
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a`T]\_bb]ab¥Y`K\_bUaa¥Yaa¥b\_\_aa^a`Za]\_aX¥`  
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+HWI-EAS443:3:80:702:544#0/1  
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a`VZbaaaa`aa\_a\_a`\_a\_``aa``]^`\_\_`V¥`\_aa¥\_  
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+HWI-EAS443:3:80:771:716#0/1  
¥]]^^`b\_`b]WZaab``aaaa\_aY¥]\_\_^¥`\_Y]\_]a\_  
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a`b]```aa\_aabaa`^W\_baa^^a`^aa`\_`¥`\_a\_]S  
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abb^Uabaaaabbaaaba`aaa`a]\_aaab\_`aaa```^  
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aaZ¥^XFJNa`\_aRNW^ZS^W^^^SP]UUZU]GO\_SURP¥  
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+HWI-EAS443:3:81:1147:453#0/1  
a]`\_UU¥W``b^a¥TQVWYX\_a\_X¥a`\_¥T^\_NNaSaRFT  
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+HWI-EAS443:3:81:1154:330#0/1  
a\_¥P¥a`\_\_]\_`[\_aa`\_[[\_a\_]^\_a^^UaN^\_\_]\_V^T  
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W\_VV\_Y[]X\_¥HS\_^`bb^¥a^^]b`ZX¥^¥Y` `[```\_  
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¥aaba\_b[ba`bbTa\_bb\_` `a\_a0`^\_YaaW^aaa^\_a^  
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+HWI-EAS443:3:81:1389:733#0/1  
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aa¥aa` `¥[^`^`\_`a\_^\_\_]^`\_`\_^[QXZ]X\_\_^`\_][  
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aa`^aa\_V\_\_`OWaa¥a`^]^`\_`\_`\_a`^]]`aY^`]  
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+HWI-EAS443:3:81:40:1456#0/1  
aaaa\_\_`\_¥[`a]\_\_a` ``\_^`\_`\_P\_\_^\_UW\_`\_]\_[Y]^ [  
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+HWI-EAS443:3:81:472:581#0/1  
a]Z`Z[]]]Z^¥ZX^`\_`\_`\_a\_\_`^ [SV][W\_ [¥WJY^¥¥

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aa`¥`\_\_`]a`aVa]a^\_\_\_\_\_`\_[N][^\_V^^Z\_\_Z\_^  
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aaaaaababbbbaabaabaaaaaaa`baaa^a```a  
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¥W¥\_OGV`b]b`baabbbab```aaa`bbaa\_aa\_aa`\_[Y  
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]`a`¥bb`^`\_a`aa¥bb\_¥[bbba`¥Zb`^baba[`b`a  
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¥`W`a\_bbbbbZbba\_ZX`a`b`b\_b\_aabab]b¥ba\_\_¥  
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WQ\_\_a\_]\_QO\_bX\_[\_Z]T\_aa`^0]IYa`babb]^FRVFX  
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+HWI-EAS443:3:82:209:303#0/1  
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]]UQ\_aa\_U\_Y^]a\_aa`]a`\_Q^` `` `\_\_^a` `\_\_^XX`  
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+HWI-EAS443:3:83:341:1569#0/1  
^b`]bba[a\_\_\_\_`aabbbaa¥abaaa`\_]`a^\_a^a]``  
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+HWI-EAS443:3:83:554:121#0/1  
a`a\_\_a\_\_\_\_\_`\_^Ua`\_]\_¥]^X\_[Z`^Z^]\_`W^Z]^Z  
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TY^`b^a[V`W0]^`^`\_\_^WRU¥`a¥VYJ^a¥a]]aW`SZ  
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¥`bbba`b]YRH\_`b\_a`abaa`bba]ababa\_``U¥\_aa  
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¥[Za\_T]\_``a\_]\_^``^`aa`^\_^\_]\_\_Y\_\_\_\_\_`^^  
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+HWI-EAS443:3:88:1271:1119#0/1  
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+HWI-EAS443:3:88:1751:376#0/1
_]a_ZMX]bY^^_W¥aa]X`Z`]`_[X`]_¥a_T_Qa_`b
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+HWI-EAS443:3:88:219:1216#0/1
a_SVa`aaaab]_`a`a`[^`a`U]`a`_^^WZXU]X`^
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+HWI-EAS443:3:88:236:1738#0/1
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+HWI-EAS443:3:88:602:286#0/1
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+HWI-EAS443:3:88:715:201#0/1
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+HWI-EAS443:3:88:733:833#0/1
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+HWI-EAS443:3:88:800:496#0/1
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+HWI-EAS443:3:89:1143:1262#0/1
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ab^^^`b`ab__`P[]_`Q_]__^_^``YU___^_^X]
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+HWI-EAS443:3:89:1507:509#0/1
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+HWI-EAS443:3:90:1389:654#0/1
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U][_^[abbbb`aVY`_bbbabbaa[a_b[`\$Pab__`^
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a^a`aaaa`X_aa_aZ^a_____^^_`Wa]]VNZY^^^X]
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aabaa``bbaaa`a_b¥`aa_a_a__^__``ab^a`a`_]
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+HWI-EAS443:3:90:97:58#0/1
a```___`]^Y_aW_^_WX_]_^_]T0]^_^XZ^ZZ^Z]Z
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+HWI-EAS443:3:91:1109:951#0/1
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+HWI-EAS443:3:91:1117:1729#0/1
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a`__[^`^_Y`_V^S_YaNKTZa`¥^ZKNY^]MDU¥YTUU]
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^aaa_`]NaYaJb_Zabbab_¥b_Sa_[VR`[KK[OWDO^
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+HWI-EAS443:3:91:1540:1822#0/1
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+HWI-EAS443:3:91:1591:455#0/1
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+HWI-EAS443:3:91:1611:1565#0/1
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+HWI-EAS443:3:91:1611:241#0/1
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+HWI-EAS443:3:91:1620:867#0/1
^bVW_b[_L¥`U`bb`ab`aaY]b_a[[]U``_b`bU`¥]
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+HWI-EAS443:3:91:1683:1087#0/1
a]]`a^^]a_^]Y¥^^^WZ__^`^_G__^`_]_Y^`^^_
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+HWI-EAS443:3:91:1757:1272#0/1
aaZRxaa`aaa]`a__]_¥^aaa`_a¥^`_a`X_N``^Z_

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__a`aa`aaa`a`aa`a_X][`^`_`_aa``]a^`a
@HWI-EAS443:3:91:651:1664#0/1
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+HWI-EAS443:3:91:651:1664#0/1
aa_Xa`]YZVYa]b_V_]_Ya^V[^a__a[_____a¥Y_
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+HWI-EAS443:3:91:703:1334#0/1
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+HWI-EAS443:3:91:771:1583#0/1
aa[aa_V`]a¥a_^[¥¥UU¥^`^]__`^^V`a`¥aV[¥]
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@HWI-EAS443:3:91:869:707#0/1
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+HWI-EAS443:3:91:869:707#0/1
aaa[abaa_]a^baa^a`_aa```a`^aZa__aaX_U
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+HWI-EAS443:3:91:886:751#0/1
ab`a[``bYabaab`^b`aaaa_a¥a^_baaa_X^U^[a
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+HWI-EAS443:3:91:952:111#0/1
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_bbabb`abaa`bababaa`aa`ba`baaaaa^aa^aa
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+HWI-EAS443:3:92:1304:1033#0/1
OP_¥__QV_OY¥[_`[¥`U`_W^ZZaW_a]babb¥]_ [`P
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+HWI-EAS443:3:92:1425:631#0/1
`XV_aR¥_ [`^¥F¥X_Z¥¥V]¥^W]]^Y]]R^ZV_X_VW^
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+HWI-EAS443:3:92:1452:945#0/1
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+HWI-EAS443:3:92:163:1588#0/1
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`[``_UIZ_bb[TMOXYQRaa`QXa]DY¥RW`¥aQa^[_V
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a`])`bb_aa_aba_baaa`a`¥a`^a^`a_a`aa_a[JS¥
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+HWI-EAS443:3:92:1707:953#0/1
aaa_bb`aa`aa_aaa`_`a`aa_a` `a`aaXa_`aa^aZ
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_`a^[aaaa_aaa`^Za¥ba_baa]YFWW]TP`bZa_
@HWI-EAS443:3:92:209:1452#0/1
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+HWI-EAS443:3:92:209:1452#0/1
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¥¥`a_Y`a_]abaabaaaa[Z^_]`aaa`0^ZS]_[a]
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+HWI-EAS443:3:92:358:44#0/1
^R]Z`¥`[¥LR_ZY`_XX¥T_a_Y_]```[]^VOZ]^Z`
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+HWI-EAS443:3:92:377:1728#0/1
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@HWI-EAS443:3:92:416:1139#0/1
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+HWI-EAS443:3:92:553:1668#0/1
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ab`aaaa_aaaa^aab_aabaaa_aaaa]^a^aaZ`_
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+HWI-EAS443:3:93:439:312#0/1
a_`aW¥a`____^`W_`^`]^`_X[X^Z_]`^ZZ^ZW^Z]X
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+HWI-EAS443:3:93:58:1742#0/1
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_`abbabbaa^K^_aaa[a_a_````]aa`__a`aZ__
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a)`aXQ`H]_`X_V[XP`^]UVKV¥_VQ[G[N_¥W[RURW
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I_bZb_bbbbb_¥_T`QY^a`Y]]¥]Ia^HZaU`b_a¥HB
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a_a`aa_b`ab_a`aa`aa_]`a`_`____^`_]^^YY`]
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[_`¥_WV[aZXa^W_`]a^`Z`a^`^`]ZP`]FY`Z_Z]_
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+HWI-EAS443:3:20:736:900#0/1
a`_aV_a`a]a[aa____`_¥¥`_`_TNX_¥[_]^_¥WPIT^
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+HWI-EAS443:3:20:991:1674#0/1
¥XRR¥KZZ_¥¥_b_]T¥_Y_a¥WY[a_Z`YJZ[^_ZRP[D
@HWI-EAS443:3:21:112:193#0/1
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+HWI-EAS443:3:21:112:193#0/1
a`_`aabba`aab`^a`a`a`_`a]a¥____^a^`]^_]
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+HWI-EAS443:3:22:1363:949#0/1
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+HWI-EAS443:3:22:170:779#0/1
abbbabbaa_babb`[abaaaaaaaaaaaaaaaaaaaa^aa`
@HWI-EAS443:3:22:363:1460#0/1
TACATTCTCAGTGCAGCGAAATCTCCCTTTTCAAAGAGCA
+HWI-EAS443:3:22:363:1460#0/1
abaaaaa¥ba¥Ta`WQ`UN¥`_a`_a]_]^[^XP`^^`^^_
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+HWI-EAS443:3:22:789:160#0/1
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+HWI-EAS443:3:23:1131:684#0/1
a^aT`^^aaaa`][X`Y`]a¥Va]`_W^^_a`][WVM_[¥
@HWI-EAS443:3:23:491:125#0/1
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+HWI-EAS443:3:23:491:125#0/1
a[YW`aaaa]aa``PROW¥¥ZUW[`ZU]``_]Z]aW¥¥^X
@HWI-EAS443:3:24:1046:657#0/1
CAGTGTGCAGCCTACATTCTCAGTGCAGCGAAATCTCCCT
+HWI-EAS443:3:24:1046:657#0/1
X¥GvbYW_Z__X]``¥`ZZ`_ab_baS]_bWUWa¥``¥^_
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GTGTGCAGCCTACATTCTCAGTGCAGCGAAATCTCCCTTT
+HWI-EAS443:3:24:1429:773#0/1
a`^S]R_aa[[_Xaaa`X^_¥a^Z`^^¥__`¥aU`¥__¥
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GAAATCTCCCTTTTCAAAGAGCAACCGTTATGGCAGCATT
+HWI-EAS443:3:24:1688:457#0/1
¥_¥ZG^`¥^¥Y^`^_J_ba`]Z_^SaUZYa`_BBBBBBB
@HWI-EAS443:3:24:624:154#0/1
TTTCGCTGCACTGAGAATGTAGGCTGCACACTGATCTGGC
+HWI-EAS443:3:24:624:154#0/1
T_[_a_]`a¥]b^a]^aaaZ¥^Z``VM[V^Z^_¥]Z^a[E
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CTCAGTGCAGCGAAATCTCCCTTTTCAAAGAGCAACCGTT
+HWI-EAS443:3:24:891:1418#0/1
¥Z__XYW¥JO¥b_RXW]`SXZ]_baIS`^X]]P^a`PUDU
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+HWI-EAS443:3:25:250:1205#0/1
S_[T[X_a`b`_U¥`_T_ab^a`^W¥[P[aR^Z]`^a[T^
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+HWI-EAS443:3:26:1306:873#0/1
`[`b`babbab^]abbbbba`abaaa`ab`b^abaaabaa
@HWI-EAS443:3:26:187:1422#0/1
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+HWI-EAS443:3:26:187:1422#0/1
``¥abba[abbaabaaaa]`a_aaa`_a_abaa__ba^]
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+HWI-EAS443:3:26:862:1718#0/1
[P¥¥MLZ``aZT_Wa`[ZX]a¥]^P[S____`a^_Z]_R_Q
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``^a`bbabaaaa_M_]a_aa_aa`aXZZa`baa_[^a
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a_ba`aaRZ_a`aa_V_aa_]`a`^_]a_]_]X___U
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+HWI-EAS443:3:29:1022:331#0/1
aa`aa_`aaaaa^aa`^`a_a^`a_a^a`_^`__^__X
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+HWI-EAS443:3:29:1524:1632#0/1
aaaa`b]baab_^Vb`aaXKPR`V_]`^UY[]Y_YZ_B
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+HWI-EAS443:3:29:518:1306#0/1
aa`PX_aaZVa`aa]WZ__`^`P`a__^[W^a^a[^`¥¥
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+HWI-EAS443:3:29:593:661#0/1
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+HWI-EAS443:3:2:1148:887#0/1
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+HWI-EAS443:3:2:493:1482#0/1
a_^]aa]LX`Xa][_`a]a`¥aU]`M`T[^`^`¥]R`B
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+HWI-EAS443:3:30:1357:1302#0/1
^YWXZ`^^`a^b`¥ba¥aaba`ZYUZ¥P`]QXT`XYU
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+HWI-EAS443:3:30:438:214#0/1
¥abbb_aaa]`Q^aabUa_b`aaa[0`X``_`aaaSNTV
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+HWI-EAS443:3:31:1046:955#0/1
a_`_aaaaa`aaaaaaaaa^a_`]aa]aa`a_]_a_^
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CGAAATCTCCCTTTTCAAAGAGCAACCGTTATGGCAGCAT
+HWI-EAS443:3:31:369:1011#0/1
a`^RRZ`_`^`_Z`^^WX[_`a¥[^`¥PZ_¥Z^^_[BBB
@HWI-EAS443:3:31:771:1118#0/1
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+HWI-EAS443:3:32:1037:758#0/1
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+HWI-EAS443:3:32:1576:1169#0/1
aab¥b[aba^Z`b]a`baaa_aa^`^`a__aaaa`aa`a
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+HWI-EAS443:3:32:1662:1861#0/1
a`a^ab`bbaaaPa`N]_[aYX__¥_`a]^`¥]^_GZ[_R
@HWI-EAS443:3:32:17:706#0/1
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+HWI-EAS443:3:32:17:706#0/1
aa_U_R¥```Z]^a`]XYOZRVPUV^¥¥WVYBBBBBBBB
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+HWI-EAS443:3:32:30:601#0/1
aa_aba[aa`]S_`a_a`_]`_`¥[`¥[_[``a¥URT]
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+HWI-EAS443:3:32:608:397#0/1
aaa`ab_aXaaaa`aa¥aaa]`_`a^a`^U`_``]_^X
@HWI-EAS443:3:32:95:709#0/1
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+HWI-EAS443:3:32:95:709#0/1
aababa`_aa`aaaaaa]aa]aaaaa`a_``a`_a]_] [
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+HWI-EAS443:3:33:1376:1749#0/1
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+HWI-EAS443:3:34:1379:1072#0/1
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@HWI-EAS443:3:34:1449:280#0/1
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+HWI-EAS443:3:34:1449:280#0/1
_^ZWYX`a¥¥Q`ab_a]Y]]`UW]QV[[[U[BBBBBB
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__ab_baba```a``_Y``_a^T_^Y[[`a_[Z^¥¥QBBB
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+HWI-EAS443:3:34:256:1854#0/1
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ab_aa`a_ZY`aa]^__W¥[^`_^Z[VVWW¥V[
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+HWI-EAS443:3:35:1453:223#0/1
`P[^a`N_S¥_aX`Y___^T[_¥YGY¥`_^¥____W_WY
@HWI-EAS443:3:35:612:247#0/1
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+HWI-EAS443:3:35:612:247#0/1
ZbQXZaba`a_aa]a¥a¥`]X_aa]Za^^GWDL_MUZ]¥S
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+HWI-EAS443:3:35:92:1150#0/1
aaa`]]`a_a[_X_]P]a```a_a^`^^YY^^¥XY^V¥]`
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+HWI-EAS443:3:35:976:616#0/1
Ya[T_WZ]_a^a`__¥_aab_¥S[V¥Za]XTWO_X_XXW
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+HWI-EAS443:3:36:1356:1942#0/1
a__]¥J][aa_a_]¥aa`aaa`__^[]Y]aUVX]^Z`_V_
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+HWI-EAS443:3:36:933:1514#0/1
a`a`_aaa]¥_`b^X`X¥`Y_]`¥Z[aa``¥_]a```¥Z
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+HWI-EAS443:3:37:1346:1050#0/1
ab`Z__^`a_a[VV`^]^`P``aa`¥^^bW^YY`[¥_ZYR
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+HWI-EAS443:3:37:1387:544#0/1
ZZ`baZ__`¥__K__XW[YX_]J^`ZZ¥I````]`¥]_X
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+HWI-EAS443:3:37:1722:221#0/1
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+HWI-EAS443:3:38:611:885#0/1
`aaabaaa^[`aa`a]__`^Zaa`^^]^a^T[T¥^^```_¥
@HWI-EAS443:3:39:1019:177#0/1
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+HWI-EAS443:3:39:1019:177#0/1
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+HWI-EAS443:3:39:386:262#0/1
abbX`bb]`a^aabaaa`aa_¥V__`__Wa_]`^__S
@HWI-EAS443:3:39:553:1345#0/1
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+HWI-EAS443:3:39:553:1345#0/1
^aabaa``]`a]aaaa`baa_aa^__aa`a`¥_``__`^W
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+HWI-EAS443:3:3:1674:1450#0/1
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``baa_b`a_a_aaaaa`aa_a_``V¥aU^__aaQa[BB
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+HWI-EAS443:3:3:920:784#0/1
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+HWI-EAS443:3:3:948:1400#0/1
aaa``^aaVVRaba^^_a`¥`a_`W[`a[P[^]UYU^[]]
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+HWI-EAS443:3:40:1765:1902#0/1
`aa`ab`a`a^_¥^_Uaa`_]Yaa^¥a[bXY````_a¥_S
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+HWI-EAS443:3:40:788:1197#0/1
aa_aaa^_V`_`^_]`_`_a_`_`^VT_]`]^R[^VTM[Z
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+HWI-EAS443:3:40:991:1746#0/1
aaa]_VS`¥¥aa[¥^aaaa``aaa_V_a_[]_]a^a_dU
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+HWI-EAS443:3:42:1116:89#0/1
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+HWI-EAS443:3:42:1297:1252#0/1
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+HWI-EAS443:3:42:1489:899#0/1
_a__aa¥_`a]ZU`b]b^][UXa]Z]aTWUaV_T_`[^P
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aaaaaa`_baa]_]ba`_aaU`[_`Ua[_a^a`P]¥U_[[
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+HWI-EAS443:3:48:1556:1755#0/1
`a)`]aZa^WUab]ab]]X`a_RVZ_[__¥J_^^RQZS
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+HWI-EAS443:3:48:180:934#0/1
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+HWI-EAS443:3:49:96:1255#0/1
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+HWI-EAS443:3:4:1408:1153#0/1
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+HWI-EAS443:3:51:1493:532#0/1
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+HWI-EAS443:3:51:256:117#0/1
aa`b`b`__aU]_a`MaY`aaY[¥]S`a_a`ZaXa__U[_
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+HWI-EAS443:3:51:992:1270#0/1
a_^_b`bb]]abaP^Z`]Z^Xb¥Ta`abbabX]`a_VWH[
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+HWI-EAS443:3:52:1017:1032#0/1
a_b`_^abba`ba^aa]a]a_a`[_`_ab_a[ZHXaa``[a
@HWI-EAS443:3:52:190:61#0/1
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+HWI-EAS443:3:52:190:61#0/1
aa_a__]Wa¥¥Z`^U`^YWS¥T_WYYWW¥__S¥W¥¥ZVZY
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+HWI-EAS443:3:52:642:685#0/1
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aa`_`b`b`aaaa_aa^_aaa_a`a^a]_a¥a^`a_^_U
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+HWI-EAS443:3:55:1702:1102#0/1
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+HWI-EAS443:3:56:1165:878#0/1
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CAGCCTACATTCTCAGTGCAGCGAAATCTCCCTTTTGAAA
+HWI-EAS443:3:56:1176:245#0/1
abbb^abaab_W_aaa_b]`a_aaa`a_aa[_aaaaa``
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+HWI-EAS443:3:56:630:1242#0/1
^Y`M^[aY[Jba[Pa¥P]ab_]aaa^[_a_a`V^`Y_^a
@HWI-EAS443:3:57:666:39#0/1
TTTCGCTGCACTGAGAATGTAGGCTGCACACTGATCTGGC
+HWI-EAS443:3:57:666:39#0/1
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_^_Uaa`_]abaaaaaSa_a`aaaa`____Z_]^__[
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Z_`````¥¥¥]^Z^a__Ua_ab^`IXU_aa_a_]T`ZO[
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+HWI-EAS443:3:63:1183:1270#0/1
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+HWI-EAS443:3:63:192:1453#0/1
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+HWI-EAS443:3:64:1528:95#0/1
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+HWI-EAS443:3:64:1712:437#0/1
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+HWI-EAS443:3:65:701:295#0/1
Z_¥[^ab_b¥¥bb_ba`^`baaba_ba``[^`^a`WUa_OR
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+HWI-EAS443:3:66:1135:513#0/1
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+HWI-EAS443:3:67:1570:1270#0/1
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aaa^U¥abb]^V[^U0¥]]X_WaQ[^RUU_a`_]Y``U[
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a_aa_ba`aa__`_]`__`^a_`^_Y_^_]X_X]XX_^
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YW]S[[aa_baUY¥a_UYT^[^T^O[[RMQYWN]WWZZ]B
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+HWI-EAS443:3:71:758:877#0/1
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^`ZXZ_a]_`^¥`a¥_a`aa^a`[`a^`aa^aa_`aa`a
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+HWI-EAS443:3:85:762:283#0/1
^__XX`[^_Z__a¥a_a[^][^``_``_``_¥^`_¥__
@HWI-EAS443:3:87:1467:297#0/1
ATTCTCAGTGCAGCGAAATCTCCCTTTTCAAAGAGCAACC
+HWI-EAS443:3:87:1467:297#0/1
aba_bb`b__X[a`babaa`a`_aaaaba¥aaa_`_a`Y_
@HWI-EAS443:3:87:997:1594#0/1
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+HWI-EAS443:3:87:997:1594#0/1
ba`a`ab¥bb]ba]aaaWMS``X]`baa[¥``^`a_a_
@HWI-EAS443:3:88:1433:493#0/1
TTTCGCTGCACTGAGAATGTAGGCTGCACACTGATCTGGC
+HWI-EAS443:3:88:1433:493#0/1
aaaa`aaaab¥baabaaa^a`]¥aaV`Z`U^]¥_]__[¥
@HWI-EAS443:3:89:1077:660#0/1
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+HWI-EAS443:3:89:1077:660#0/1
aTa^¥¥_Y_[S¥S]¥¥`b``_aa^aP]]a`V_]W_aUZ^W
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CTACATTCTCAGTGCAGCGAAATCTCCCTTTTCAAAGAGC
+HWI-EAS443:3:89:924:862#0/1
ab]`babbb¥UW`_bbbbbbaabbbba`_W_bVbZaaaZ
@HWI-EAS443:3:8:1428:291#0/1
GTGCAGCGAAATCTCCCTTTTCAAAGAGCAACCGTTATGG
+HWI-EAS443:3:8:1428:291#0/1
a`_H_a__a_a¥`¥_Y`a`a`¥¥_UW¥¥¥^WNZW¥¥W¥B
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AGCGAAATCTCCCTTTTCAAAGAGCAACCGTTATGGCAGC

@HWI-EAS443:3:96:295:1457#0/1
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+HWI-EAS443:3:96:295:1457#0/1
aa_aaaaa^aa`aa_a[`aa_`a_``_¥_`]U^`_____
@HWI-EAS443:3:96:350:1149#0/1
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+HWI-EAS443:3:96:350:1149#0/1
^aaba¥b`baaaa`ab^a`aaaa_a^a_ab`a]aaa`a`_
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+HWI-EAS443:3:97:1474:1216#0/1
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+HWI-EAS443:3:97:745:1717#0/1
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@HWI-EAS443:3:97:912:1305#0/1
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+HWI-EAS443:3:97:912:1305#0/1
^bababa__W^`^[_a_a`b`]a]Y`R_`aS`]``a_¥_S
@HWI-EAS443:3:98:227:1105#0/1
CGAAATCTCCCTTTTAAAAGAGCAACCGTTATGGCAGCAT
+HWI-EAS443:3:98:227:1105#0/1
aaI[`Ya]^a^)^a__aba`baaa^_Rb]_b_U_ab]GY
@HWI-EAS443:3:98:883:913#0/1
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+HWI-EAS443:3:98:883:913#0/1
``ab[a`[_^a^X`aaabaX`^aa_a`_a_`_[a`Na[Y]
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GCAGCCTACATTCTCAGTGCAGCGAAATCTCCCTTTTAAA
+HWI-EAS443:3:99:542:949#0/1
aaaa_aabaaaa`a`aa]a^aa`a``a`___^````_`^
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+HWI-EAS443:3:9:824:703#0/1
`a`[a^aa_a`ba`b_aba_aWSYaaa`aa^a_a`__aX_
@HWI-EAS443:3:25:774:319#0/1
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+HWI-EAS443:3:25:774:319#0/1
abbaba_a`b`aaaaaaaa_aa``a`^`^a_____^_UV_¥
@HWI-EAS443:3:70:1237:1015#0/1
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+HWI-EAS443:3:70:1237:1015#0/1
Ua`^[_¥_¥U]]a_]YFM][¥_VX__W]XW]XXZQ^aaaXG
@HWI-EAS443:3:67:114:520#0/1
GCCGGCTTGCATAAATGTTATTTGTTGAAACTATTCTC
+HWI-EAS443:3:67:114:520#0/1
aaa[_a``aaa`a`a]Z_aaaaaZ_aa_^_^````_`a
@HWI-EAS443:3:60:252:169#0/1
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+HWI-EAS443:3:60:252:169#0/1
P_bbYSTQVVY^`ba^`_`^XUX_`YVYFHW_]_TTX^a_
@HWI-EAS443:3:6:433:1604#0/1
GGCTTGCATAAATGTTATTTGTTTCGAAACTATTCTCTGTC
+HWI-EAS443:3:6:433:1604#0/1
aabaa^H]_a`aaa__a^a]_aaZ^`a[aaX____]¥`]^
@HWI-EAS443:3:85:196:947#0/1
GCAGGCTTGCATAAATGTTATTTGTTTCGAAACTATTCTCT
+HWI-EAS443:3:85:196:947#0/1
aa[_]a__]`_]¥¥`Z^XZ^]_]_[RY`_]UXZ^^__^^^
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+HWI-EAS443:3:97:121:146#0/1
a`]Q]ZTYUXMDIWWLVWYOSRRROQRYZSPLVUYWYXBB
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+HWI-EAS443:3:39:695:13#0/1
SS[ZN]_¥ZP[]]L¥`ZT[XZ]]^Z`YYSW^[aYT¥`¥XT
@HWI-EAS443:3:53:72:1758#0/1
GTCTTATCTCTTGTCTACTTCAAGCAGTAGTTGTAAGGC
+HWI-EAS443:3:53:72:1758#0/1
Y_H_YY`bbbbbaXa`¥`aba^T__SV^¥[X¥Z[YSYb^IM
@HWI-EAS443:3:14:827:1998#0/1
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+HWI-EAS443:3:14:827:1998#0/1
_[_b¥V`a^[]`^^^Y[]^`aaa]]`]^`_`_`V^YZX]
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+HWI-EAS443:3:16:614:983#0/1
a__T¥WYFEXP`W]YS[]`_QW]_`S[_¥¥U]`__Z^`WX
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+HWI-EAS443:3:18:1099:1328#0/1
aa_`^`aaab`a]aa`aaaa^¥a]¥_¥_[a_`a__a_Z]a
@HWI-EAS443:3:18:402:1132#0/1
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+HWI-EAS443:3:18:402:1132#0/1
`bbV¥_¥`a]ab_aa^aSM^a¥a^`a`baa_a`aaa`^a`
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+HWI-EAS443:3:1:1567:1157#0/1
VV_OVabT_`^¥¥`[_b^Z_¥^Sa_[`[_Q¥^¥¥Z`aa`]B
@HWI-EAS443:3:23:1646:819#0/1
CTTGCATAAATGTTATTTGTTTCGAAACTATTCTCTGTGCG
+HWI-EAS443:3:23:1646:819#0/1
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@HWI-EAS443:3:28:314:995#0/1
CTCTTATCTCTTGTCTACTTCAAGCAGTAGTTGTAAGGC
+HWI-EAS443:3:28:314:995#0/1
abbbbabbaaaaaabbb_aaabaaa_a_aa_``_a_a`^

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+HWI-EAS443:3:29:260:18#0/1
aa[aNY[LZaMOM¥_ONS`XYYY[WW`XYRV¥^[XX]]BB
@HWI-EAS443:3:29:268:383#0/1
GGCTTGCATAAATGTTATTTGTTTCGAAACTATTCTCTGTC
+HWI-EAS443:3:29:268:383#0/1
aaa`aa^^]^^]a]a``a]`_``aa_]`^```___[Y
@HWI-EAS443:3:30:1173:1794#0/1
CTTGCATAAATGTTATTTGTTTCGAAACTATTCTCTGTCGC
+HWI-EAS443:3:30:1173:1794#0/1
aabaabbb`aba_abaaaa`aba`aaaaaaaaa`a]^`_`
@HWI-EAS443:3:30:294:180#0/1
GGCTTGCATAAATGTTATTTGTTTCGAAACTATTCTCTGTC
+HWI-EAS443:3:30:294:180#0/1
abbbabbbbaab`abaaabbab_aaaaabaaaaaaaa_aa]a
@HWI-EAS443:3:33:388:235#0/1
CTCTTATCTCTTGTCTACTTCAAGCAGTAGTTGTAAGGC
+HWI-EAS443:3:33:388:235#0/1
aabab`abbaaab_aabaaaaaaaaa`a]^`^````_]`
@HWI-EAS443:3:35:1271:206#0/1
GGCTTGCATAAATGTTATTTGTTTCGAAACTATTCTCTGTC
+HWI-EAS443:3:35:1271:206#0/1
^baaa^a`_]W_a^^`_aaa^_[]YZS_a``aaa`]`T`
@HWI-EAS443:3:35:346:328#0/1
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+HWI-EAS443:3:35:346:328#0/1
aaba`abaaa`Vaa__a```^_aa^]aa__`___a_^X_
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+HWI-EAS443:3:36:1202:1826#0/1
¥¥ZT`ab¥a`bbW`abbaba`bb`Lba^bZ]Y]aa__b^b
@HWI-EAS443:3:38:1358:1306#0/1
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+HWI-EAS443:3:38:1358:1306#0/1
aaab`ab`aba]`aaaba_a`aaaaaa_^W__`_^]`Y
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+HWI-EAS443:3:38:435:251#0/1
abbbabbbbbbbbbabab`aa`ab`aaa[`aaa`aaa`
@HWI-EAS443:3:43:410:44#0/1
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+HWI-EAS443:3:43:410:44#0/1
a]a_`b_ab[W_ab`_ab`_aa^_aa¥`[aa`]a`]a_^_
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CTTGCATAAATGTTATTTGTTTCGAAACTATTCTCTGTCGC
+HWI-EAS443:3:48:1782:1018#0/1
_Y¥`Z¥]_0_bbRa^¥^_]¥ST¥[ZY]]Z_V^_``aWQXW
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aaabbabbaaab`aabbbaa`aa`_`a_baba_a_``_¥
@HWI-EAS443:3:50:1436:122#0/1
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+HWI-EAS443:3:50:1436:122#0/1
_¥¥Y[Ta[RXV¥]]^ZZIVPLR^YZBBBBBBBBBBBBBB
@HWI-EAS443:3:52:440:1081#0/1
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+HWI-EAS443:3:52:440:1081#0/1
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@HWI-EAS443:3:53:256:664#0/1
GGCTTGCATAAATGTTATTTGTTTCGAACTATTCTCTGTC
+HWI-EAS443:3:53:256:664#0/1
aba``X_^a_```a_aU`a_]`____]_``aaa_a_a_]]
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+HWI-EAS443:3:56:797:118#0/1
abbbbabbaaab`babbab_aab``a`aaabab_ab`_
@HWI-EAS443:3:56:963:1080#0/1
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+HWI-EAS443:3:56:963:1080#0/1
aaJYTVWVbb`aY[aN¥a_T`aW[_WS]abbb[_`Xaab¥
@HWI-EAS443:3:57:1531:1012#0/1
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+HWI-EAS443:3:57:1531:1012#0/1
`a__^^^`_aa__¥_¥aa_Y]] [V¥] [[a`]]`¥[¥_YBB
@HWI-EAS443:3:58:509:882#0/1
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+HWI-EAS443:3:58:509:882#0/1
¥bba^Y`abaabbaaa^abab`_abaa`] `aabaa`b``a
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+HWI-EAS443:3:59:550:863#0/1
aa]a_aa_aaa^^a__a__]^`_a`_]`aUZa^^ZZ]W^
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+HWI-EAS443:3:5:1499:34#0/1
abbbbbbbbbbbbbbbbabbb^bbbabababb¥b`bbbaaa
@HWI-EAS443:3:60:1170:1604#0/1
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+HWI-EAS443:3:60:1170:1604#0/1
^aba`bb_b¥ab_]_¥bbbb`bbaabb`ba_]a[baa^R
@HWI-EAS443:3:67:883:366#0/1
GAGAATAGTTTCGAACAAATAACATTTATGCAAGCCTTAC
+HWI-EAS443:3:67:883:366#0/1
`bbb`a^¥G] []]^a]a^[aaaaa¥_a_aZaaa[S__a`
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+HWI-EAS443:3:69:1561:1648#0/1
abba¥`ba`aaab_aaaaaa` [`aaa_a^X^N_aS[Wa¥Y

@HWI-EAS443:3:69:1774:1898#0/1
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+HWI-EAS443:3:69:1774:1898#0/1
¥^Y^abbb`^YW_a`ab^a¥SJ]`Y]a`aa¥^Y_]Z¥T
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GCTTGCATAAATGTTATTTGTTTCGAAACTATTCTCTGTCTGCG
+HWI-EAS443:3:72:613:1146#0/1
a`a_a^aa^Saa^aaa``__`b^`a^a`_``a`_`Y
@HWI-EAS443:3:73:190:1456#0/1
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+HWI-EAS443:3:73:190:1456#0/1
^Y]Z¥][X_VXNEPT_`aUMTYZZZY[Z¥PUZ]^ZTT^ZO
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+HWI-EAS443:3:75:606:1184#0/1
¥VZ¥__Y`a`_a_aa_G^R[^aa_aaZa_a[`a_a`__a
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+HWI-EAS443:3:83:1359:902#0/1
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+HWI-EAS443:3:86:26:231#0/1
aaa`_a`_aa_aaa^`^aa`a_a_a¥W^)`_`_`^`^`_Y^
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+HWI-EAS443:3:86:718:1454#0/1
``aabSa_T`_`a¥^[_¥___^`a¥[_a]¥Z¥a`_`_[__
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+HWI-EAS443:3:86:883:1993#0/1
a¥_Y`YUR`bbabaaba[Wa`_`aa_b_a_Z^`¥_X]Y`a
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+HWI-EAS443:3:87:233:1406#0/1
aaaaa^]ZSW``__RZON[¥]QZZa`_`¥¥¥^^[]^^]U¥
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+HWI-EAS443:3:88:314:1224#0/1
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+HWI-EAS443:3:93:1686:550#0/1
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+HWI-EAS443:3:93:1729:396#0/1
abbba_ababb¥aaaaaZaa_baaYa`aZ`_baa```]T^
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+HWI-EAS443:3:94:1671:78#0/1
_R[^\WLHW_X^^]_U`W`_]`^^ZUUW^Z^`TWT^ZVU
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+HWI-EAS443:3:95:1282:918#0/1
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@HWI-EAS443:3:98:496:1567#0/1
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+HWI-EAS443:3:98:496:1567#0/1
a`a^^ab_aY]aaX__aa]`__¥`MaL]a_aV]_^`_V_a
@HWI-EAS443:3:95:1425:1863#0/1
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+HWI-EAS443:3:95:1425:1863#0/1
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+HWI-EAS443:3:4:425:1106#0/1
aa``a`aaa`Za`¥Y]]a`^Ya`^`_`YU`^W_TWP`W^
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+HWI-EAS443:3:54:691:416#0/1
^]Z^WX_T`bb_aWWaW^]V_b]b``bbRP¥ZH^babaaa
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+HWI-EAS443:3:99:704:1366#0/1
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aa_`aaaOXb¥^^aT¥b^a]_a]^a[¥^U^`^]Y_0`OR_
@HWI-EAS443:3:61:144:827#0/1
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+HWI-EAS443:3:61:144:827#0/1
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@HWI-EAS443:3:98:1394:603#0/1
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+HWI-EAS443:3:98:1394:603#0/1
a¥[_`_]`_`aYSM`VW]XYR¥_ZU^X^]SZTWWZZZVOG]¥
@HWI-EAS443:3:55:666:179#0/1
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¥U_^_bUZ¥`RW¥a¥``b^a^DW`aa^T[D^VU[WUVQMN
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+HWI-EAS443:3:90:1225:126#0/1
aaZ^Z]^ab¥]^S^WW_[^W][^]_XP^¥^_SZPXSOZYYP
@HWI-EAS443:3:48:83:687#0/1
GNGCAAGAATACTGACATCAGAGTCACAGCTGGCAAAAAC
+HWI-EAS443:3:48:83:687#0/1
[D¥__a_aa`a_a_```^a`a_a]____`Y¥a_____```_`

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aa^H_a]XZ`]X^][a]W`ab_`SZa]W]¥Z_Y]ZWIO[
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+HWI-EAS443:3:19:921:1691#0/1
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@HWI-EAS443:3:53:1343:799#0/1
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+HWI-EAS443:3:53:1343:799#0/1
aaaaa^baabaabbbab]__abab``aabba¥_ababb_
@HWI-EAS443:3:94:1674:751#0/1
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BB
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ZXa`_R[Z__Q[¥a`^^_a`^[_a^]]HRZ_`_ZHRXD
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`^X_V]_b`aaR`Y[_`X][[a]``_]`¥____X_Y^]__
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W[a`b`¥`_a`ba`ab`Yaba`^`^`Ybaaaaa^Ua```a
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aa]_]a[[]aa`aa^`]a_____`]``P`R¥Z[RX¥¥V¥Y
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aa__ZVZ^^]`X`a`aaa_a_Z[b_¥QS_a_W_`R```¥
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aaS` `XZ` `¥aZJ_`TaT`aU`_^a` ¥ZYU`G]SK¥_QBB
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a`¥a`_b¥a_a_```a_a__`W__^X^XHZ__`X]¥XW^]
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S_^W_R^baba_[aa[0Ya¥SS`R^^`RYG_RZ`URU]]Z
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`a_`]^`^aXH_aa¥[[a`a`[_`b^^aaXYa`W^a]_aGa
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aa_`XJ¥babb`aaaZX_````aa^[G_a`Z]U__a¥^S
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a`W`a`__b`b`aaa`]]`]]`_a`TYa```]]__``_R_X
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a^Y`a_a`^X[¥R____[_a`aWZ__]ZaNT_^_`__^][_
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+HWI-EAS443:3:90:636:1403#0/1
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+HWI-EAS443:3:92:72:136#0/1
_`bba`a`a^b_Z]]Z^aa`_]UQ^aaa^_YZ_^VV_Y[
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+HWI-EAS443:3:93:1440:172#0/1
a][`[_a_a_a`W_a]W_`U_aU`]VXW^WW[]ZUQVZW`

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`Y[aaaa_¥_aa_aa`__¥`_b]Q[X^¥GX`_[-]]^S¥
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+HWI-EAS443:3:93:652:1832#0/1
a`a_a`aaa_baaaa`a`aaaa`__[a`__¥Y[_`a`^^
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¥_W`U_a¥ZZ_N`ZY¥aa`ZXZ__`_R[¥^`ZZa`]]`
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+HWI-EAS443:3:25:1658:1023#0/1
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a`_`_abVb`ab]b`])`aa`Yb`aZD[``0`a^__Y^¥aY
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+HWI-EAS443:3:64:1334:867#0/1
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+HWI-EAS443:3:65:52:877#0/1
Z¥]¥Ua^_aX[a]ZbaaYW^[a]QP`aaXa^bVDP]Va``
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TGAGAANGGGAGACCTTCACTACCTCCAGAGCGGAAATGA
+HWI-EAS443:3:73:1414:1001#0/1
_`^ZY¥D[_Y]baa]]XTa_aa`_`aaV]_aRa__R_`aa
@HWI-EAS443:3:84:368:1900#0/1
TGGGAAACAAATCGTGAATGGATCTTGAAGNGGAATCC
+HWI-EAS443:3:84:368:1900#0/1
aX[S^^_R^^a_`W¥RZ¥LXX`aaUK^aLGD[_^^^_U
@HWI-EAS443:3:97:976:860#0/1
CTTGGAGANACTGTGATGAGAATGGGAGACCCTCACTACC
+HWI-EAS443:3:97:976:860#0/1
abbbbaab¥D[_bb`babbaaa`ba`aa`_]`a_a`NN
@HWI-EAS443:3:20:506:1435#0/1
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+HWI-EAS443:3:20:506:1435#0/1
a`^a`a`Vbaaaaa`aaa_`_aa_]_a`^^^_]`])`X]
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+HWI-EAS443:3:76:384:69#0/1
aXYMZ]_XU[ZW]USXWUXYXVU]XQX]XTXZZYVYZZZ
@HWI-EAS443:3:49:1528:952#0/1
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+HWI-EAS443:3:57:1700:99#0/1
`¥¥L`WbX]]_WN¥VVXZMYXWJ¥_YSL¥H_R_BBBBBB
@HWI-EAS443:3:76:131:739#0/1
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+HWI-EAS443:3:76:131:739#0/1
aaa_aaaba`a`bbab[`_aaaa_a_SaY^_W`a__^^_]`
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+HWI-EAS443:3:81:512:1171#0/1
JaWw[0¥_a_¥S]_]_WWYXZT¥ZX¥ZZSRY_XT^`^VVY
@HWI-EAS443:3:89:1425:190#0/1
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+HWI-EAS443:3:89:1425:190#0/1
a[___`UZZ]¥^Zaa_a_P]_RVPYWJNYFVZV^RRDPZ[T
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+HWI-EAS443:3:23:1758:370#0/1
^a`¥U`_abaabaZTb`a_U¥`aaH_RUaQZGS^SVW` `G
@HWI-EAS443:3:30:1326:1690#0/1
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+HWI-EAS443:3:30:1326:1690#0/1
`b`_a`V_]USFYP_a]^`_^N[]aH_VZ_XMYUZUGH
@HWI-EAS443:3:31:476:212#0/1
CTTCAGTGAAAGCCCTTAGTAGCATCAAGTCTCTAATCG
+HWI-EAS443:3:31:476:212#0/1
abbaV_`^b¥YH^aTaaa`Y]T_a[`_ZS]V`^^]^__Z]
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+HWI-EAS443:3:40:589:1433#0/1
aaaa]aa`¥a_`^`_`_`_a_a`_BBBBBBBBBBBBBBBB
@HWI-EAS443:3:55:1074:1685#0/1
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+HWI-EAS443:3:55:1074:1685#0/1
a¥FL[bb_aa`bb[a__`TU^a]_]`[a_PZ¥aa^_a^X_
@HWI-EAS443:3:63:1014:41#0/1
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+HWI-EAS443:3:63:1014:41#0/1
[`bb` `babYabaaa`_^`]`_`_`_aaba`a_a` `¥¥` [IS
@HWI-EAS443:3:66:26:1561#0/1
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+HWI-EAS443:3:66:26:1561#0/1
aQMMXWQP]VWQPUU[FPU]^QZ]XOLQ^^S[FNUZZ¥ZN
@HWI-EAS443:3:77:202:1468#0/1
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_WaUZS[`¥RWXZT]]_U¥[QYT[[VYXTVLF5]XYEMDR

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]G_ab_bbaWW][Q_WW_a`_¥Z_[``]]H¥TZVa]Y_aZ
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_aaabbb_bbbbab_bbababbbbbb[[aZb]b]bab_^bb
@HWI-EAS443:3:13:1408:14#0/1
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+HWI-EAS443:3:13:1408:14#0/1
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@HWI-EAS443:3:26:442:619#0/1
CAACACCCTTGGCCTCGATATCGAAACAGCCACTCATAGG
+HWI-EAS443:3:26:442:619#0/1
a`_`_`_a`^^¥a^Z[`_¥`_`_Z`_W`_¥]¥WUY¥UV_N
@HWI-EAS443:3:48:537:899#0/1
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+HWI-EAS443:3:48:537:899#0/1
`aUZ_USSTUaRT`X_a`[¥Z_^¥[WVWQ^X¥¥]_TTa_Y
@HWI-EAS443:3:4:239:134#0/1
GAGAGACAATTGCATCTGTACCTACTTCGCGCTACCTTT
+HWI-EAS443:3:4:239:134#0/1
a_a^aZ_] [`]Z^RZ^^^U]aXUG^^]UGG^UUXUXUYBB
@HWI-EAS443:3:50:1751:1554#0/1
ATCTGTGCCGATTTCTTCAATTAACCACCTTATTCCTCA
+HWI-EAS443:3:50:1751:1554#0/1
abbab[`aababbaaab`_a`aaaa_]]_aaaa`_a`_`
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+HWI-EAS443:3:54:515:93#0/1
a_X_^]¥Q]]Z^`G[]^`S^¥_^W]W]ZW]]Z]X¥YXXZ
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+HWI-EAS443:3:63:1026:644#0/1
__Vaa`Xabaaaaaaaaaaa`a`^a][`_]_^Z^`^]_``]]
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AGTCTCTGAAAATATACAGAGATTCGCTTGGAGAACATGT
+HWI-EAS443:3:74:678:1877#0/1
a^N¥X`_V_`````_T_a`]````Z^`_`WZ[ZQZZY]DHXR
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+HWI-EAS443:3:78:293:641#0/1
]`bbbbbaaa`aa_a_W`aaba`_aa^a^`_UaaU`_
@HWI-EAS443:3:81:919:1071#0/1
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+HWI-EAS443:3:81:919:1071#0/1
]_QHO¥`¥YRRU¥]XUU¥¥a¥Q[ba[[]¥_`]L_RXD[TG
@HWI-EAS443:3:88:703:1476#0/1
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+HWI-EAS443:3:88:703:1476#0/1
ab`¥¥Zba`^`_¥_b`bbbb_aa`_abaabaa¥^aa¥
@HWI-EAS443:3:16:1164:1788#0/1
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+HWI-EAS443:3:16:1164:1788#0/1
a_aaaaba_aaa¥D¥`aaaa^`^`_`_`^¥^Y`^^WDT
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+HWI-EAS443:3:60:1194:1390#0/1
abaabaa_aaa`a`ba`a`]a¥__^`_XDTP¥W]_^ZW
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+HWI-EAS443:3:10:853:321#0/1
abaaaa_aaa`a`a`a`¥^`_¥N`^¥_U^¥U_¥_
@HWI-EAS443:3:11:851:1617#0/1
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+HWI-EAS443:3:11:851:1617#0/1
^bb`abaaba¥_Vbbaaab¥`aaX`]^aa`ba`_0aaa
@HWI-EAS443:3:13:157:1536#0/1
CATCAAGGTCTCTAATTGGTTAAAGATTACACTGAAGTTC
+HWI-EAS443:3:13:157:1536#0/1
a^]a`Y`_Ua`a^ZY`_X_X`__`__`_]_a^^^¥[
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GGTGTCTCGCTGGATTCTCTTTCAAGAACCATTCCACGA
+HWI-EAS443:3:16:305:1834#0/1
W_H[Xbb`_URPO_ZP^aW[Z_¥SaQHF¥YX^JWZ^XBB
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+HWI-EAS443:3:16:715:218#0/1
Ya`WTZ[OXWZQ^T`aaaU]¥^^XK¥ZHW[XTQ¥EYWBB
@HWI-EAS443:3:1:859:105#0/1
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+HWI-EAS443:3:1:859:105#0/1
a`baa`_`^_aYaQa_aa_¥`a]^aRa_a^YU___^BBBB
@HWI-EAS443:3:23:347:385#0/1
CGGAGGGAACAATAGTTGGAGAAATTTACCATTACCTTC
+HWI-EAS443:3:23:347:385#0/1
a_^`[]¥`aa_]Za^`^^a`aa[a`a`_`^a_]^[^]
@HWI-EAS443:3:33:559:1554#0/1
CAAAGTGTGATGAGAATGGGAGACCTTCACTAGCTCCAGA
+HWI-EAS443:3:33:559:1554#0/1
G[[]Xa¥__a¥`b`Xa_U_S_b`a^[^bab[DYaa`ba`

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+HWI-EAS443:3:33:834:1058#0/1
aaYaba^SaJ[KR]_a`__]SJ_WY`SXVa`MV]YS`[U
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+HWI-EAS443:3:39:1060:1166#0/1
`bbaa¥I`Y`¥aaUV0``¥¥^a[__aWQ]U¥PPT[P]¥KD
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+HWI-EAS443:3:4:891:547#0/1
aXaa^]b[`Y`^F^__aa^`_]_[S[BBBBBBBBBBBBBB
@HWI-EAS443:3:54:1153:779#0/1
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+HWI-EAS443:3:54:1153:779#0/1
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@HWI-EAS443:3:5:223:1194#0/1
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+HWI-EAS443:3:5:223:1194#0/1
_SXbW`XFQSY]U_NQN¥a^_aa¥[ZZ]RJZ^GR¥ZBBBB
@HWI-EAS443:3:61:253:281#0/1
GCTTGGAGAACTGTGATGAGCATGGGAGACCTTCACTAA
+HWI-EAS443:3:61:253:281#0/1
a_]__a]`¥^_]_X_WW[V]HRUVX]UZNNVWWWTLTWG
@HWI-EAS443:3:66:1237:1285#0/1
GGTCGCTTTCAATCTGTGCCGCATTTCTTCAATTTACCAC
+HWI-EAS443:3:66:1237:1285#0/1
J_ZWaVYb`_U_`^UU¥VZ^`bab`_UWUb^_b`[`ZV^`
@HWI-EAS443:3:78:822:1000#0/1
CCCTTAGTAGCATCAAGGTCTCTAATCGGTAAAGATTAA
+HWI-EAS443:3:78:822:1000#0/1
a]`bab^abb^]Y_`^Ra^a`a]bbaWa`F_`]T`a`YWG
@HWI-EAS443:3:83:1013:1088#0/1
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+HWI-EAS443:3:83:1013:1088#0/1
¥babbb`aabbb[a`]`a]`aa_]`^a`_XRa]b]R]]V_
@HWI-EAS443:3:86:1542:436#0/1
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+HWI-EAS443:3:86:1542:436#0/1
XYHHRW[WWb¥LJZRV]V]aabZU]GQ`TPLRZbOGZUQ^
@HWI-EAS443:3:99:1196:1677#0/1
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+HWI-EAS443:3:99:1196:1677#0/1
`b]b]¥_ab[^a]W¥abbaU`bXT¥]Vaa`^¥aba`baa_
@HWI-EAS443:3:99:1220:230#0/1
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+HWI-EAS443:3:99:1220:230#0/1
]0¥aaZGXT^^¥¥[aYaa[¥YYaZZLU^]Z¥^_]WUY[aB
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+HWI-EAS443:3:12:851:1653#0/1
`bb[a^_a]a¥Z¥]RY[]aYJL[_U^_¥_`^_]¥^QJ[ZU
@HWI-EAS443:3:15:409:219#0/1
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+HWI-EAS443:3:15:409:219#0/1
`aR_aaaaa`Z]_a^`aaa_`a]`W_`Y¥¥[¥¥_H[XXM
@HWI-EAS443:3:16:562:1345#0/1
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+HWI-EAS443:3:16:562:1345#0/1
ab_0¥¥_UW`a`a_]aaaZVa^WaWZ_^`Y^[_aaX¥`¥U
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CTTCAGTGTAATCTTTAACCGATTAGAGACCTTGATGCTA
+HWI-EAS443:3:22:1180:1351#0/1
aaa__a^^a^aa^`aaa_aaa``^`_a]``a_``a_`^`¥
@HWI-EAS443:3:22:635:1740#0/1
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+HWI-EAS443:3:22:635:1740#0/1
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@HWI-EAS443:3:23:933:787#0/1
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+HWI-EAS443:3:23:933:787#0/1
aaaa`bbaa__aa_aaa`[a]T`_^`^`__`¥_¥YP[^S[
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]baa^^aba^Ya]_`baaQZaa_a^[Za¥_¥aaa_aY^LZ
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+HWI-EAS443:3:25:190:493#0/1
a_WD[``^]__][_`^____Xa__`^`^`_`¥__]`T^X¥
@HWI-EAS443:3:25:337:369#0/1
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+HWI-EAS443:3:25:337:369#0/1
a_ZYLXR`M[U_]Y[] [OXXUX[Z^¥Z_VZXZ]]W]OTPS
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+HWI-EAS443:3:29:148:410#0/1
a_V[TRWQW]UY_SY`VZ[aRaRV]]ZBBBBBBBBBBBBB
@HWI-EAS443:3:32:212:1003#0/1
TGAGAATGGGAGACCTTCACTACCTCCAGAGCAGAACTGA
+HWI-EAS443:3:32:212:1003#0/1
ab_a_a`aaa_`aaa__aba_`a_`__`a__aa]¥HV_V
@HWI-EAS443:3:32:658:1243#0/1
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+HWI-EAS443:3:32:658:1243#0/1
a`abb_S]a`NZ^aZbba]aZabaa¥a[aaaaaa]^GZ_^
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+HWI-EAS443:3:34:1355:1128#0/1
aaab¥aba`¥aa_aaaa`a_`a_Wa^_```_Saa_]^^M

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+HWI-EAS443:3:35:908:2040#0/1
TXaPQH[_V_b¥bbbW` [`bbaab]Pa_`b^a¥b^ZF]_a
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+HWI-EAS443:3:3:280:2007#0/1
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+HWI-EAS443:3:3:927:1911#0/1
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@HWI-EAS443:3:40:186:468#0/1
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+HWI-EAS443:3:40:186:468#0/1
a^_`M[^X_T]RRW^^^_X[FSUYMGTY^SX_PGHWY]
@HWI-EAS443:3:40:228:1557#0/1
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+HWI-EAS443:3:40:228:1557#0/1
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@HWI-EAS443:3:40:24:425#0/1
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+HWI-EAS443:3:40:24:425#0/1
`a`aabaa]U`a`a¥`[^[]X][_W[¥YYS_¥[WTWZW
@HWI-EAS443:3:40:341:1337#0/1
GCCCCATTTCTTCAATTAACCACCTTATTTCTCAAATTT
+HWI-EAS443:3:40:341:1337#0/1
V`ZPW^a_] ^P_W_WVWQX]____[_S_J[NV]`S`]KR]TT
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+HWI-EAS443:3:45:136:1097#0/1
aa`J[baaaSY`RXOZ`____YSU^VWY]__YTVVNZPVW
@HWI-EAS443:3:45:331:256#0/1
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+HWI-EAS443:3:45:331:256#0/1
__bbba`abaab_Z¥aa`a`^aaa`a]a`aa`aa]NV]
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+HWI-EAS443:3:45:952:866#0/1
aa¥D¥`ababa`a`a_a`aa_^_a`a`a`_`[¥aa____a__
@HWI-EAS443:3:4:1198:118#0/1
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+HWI-EAS443:3:4:1198:118#0/1
aa][__a_a_U_`_]`Wq]^^W]X^]Z^ZWXWZZZZWZ^ZZ
@HWI-EAS443:3:50:1603:1094#0/1
AAACTGTGATGAGAATGGGAGACCTTCACTACCTCCGGAG
+HWI-EAS443:3:50:1603:1094#0/1
abbabbababaab]_baa]]aa`aa_aaa`a`a`^`^`[]
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+HWI-EAS443:3:50:1670:450#0/1
aa¥`X`aaaa`a^X]VZ¥Z¥ZNRU^[US¥[YU[¥U¥U^
@HWI-EAS443:3:50:815:526#0/1
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+HWI-EAS443:3:50:815:526#0/1
_]bababbbabbabbbbaa_a`^bbabab`ab`¥¥Ya_
@HWI-EAS443:3:52:1509:283#0/1
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+HWI-EAS443:3:52:1509:283#0/1
abbbbbbbbbbb_a[Z^b_aabb[baaa_bbba_^_J[ab
@HWI-EAS443:3:52:331:1729#0/1
CCCCTTCTCATCACAGTTTCTCCAAGCGAATCTCTGTATA
+HWI-EAS443:3:52:331:1729#0/1
aab[LV`ba]``_^]U_a`X¥]Z¥__`[UWY]VZa_^[X
@HWI-EAS443:3:54:1662:1583#0/1
ATCTGTGCCGCATTTCTTCAATTAACCACCTTATTTTCTC
+HWI-EAS443:3:54:1662:1583#0/1
_a^X`_aaR^``aaV`V¥]a]`_ZY`^Q_]a`UVJ_Y
@HWI-EAS443:3:57:926:377#0/1
GCCACATTTCTTCAATTAACCACCTTATTTCTCAAATTT
+HWI-EAS443:3:57:926:377#0/1
``R[`aaa_aa_]Xaa_aZ]a`Z^`¥`___Z`][a`_
@HWI-EAS443:3:58:1392:1122#0/1
GTCGCTTTCAATCTGTGCCGCATTTCTTCAATTAACAACC
+HWI-EAS443:3:58:1392:1122#0/1
`V`¥T¥_¥LW]_T^HUYP¥Y]Sa_a¥`OPX`[QRWFVXN
@HWI-EAS443:3:58:1587:1173#0/1
AGCCTCTTCTTTAAGGACTTTTGATCTCGCGGAGGCG
+HWI-EAS443:3:58:1587:1173#0/1
aQZ[a`b`_]bbb_RUMWTKaY^aa]b]a¥a_¥__UTBBB
@HWI-EAS443:3:58:266:819#0/1
GGCTGCATTTCTTCAATTAACCACCTTATTTCTCAAATT
+HWI-EAS443:3:58:266:819#0/1
^aa¥Z¥YUW[FY[^VWaaYXXX[```][W^`YZ_^PPQ^a
@HWI-EAS443:3:59:1012:42#0/1
AGAACTGTGATGAGAATGGGAGACCTTCACTACCTGCAG
+HWI-EAS443:3:59:1012:42#0/1
Vaab^]aa`_W_a]aU^Z_bbXbV`a_`_^¥_YVKDX^W
@HWI-EAS443:3:59:102:1728#0/1
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+HWI-EAS443:3:59:102:1728#0/1
a_YP^aa_VZa`[NN^a_R]G[JMLYBBBBBBBBBBBBBB
@HWI-EAS443:3:59:561:519#0/1
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+HWI-EAS443:3:59:561:519#0/1
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@HWI-EAS443:3:60:805:1472#0/1
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+HWI-EAS443:3:60:805:1472#0/1
`]XH¥Xaa__`aaSaaaa¥[_¥_[_]_aa^a_a_`WP¥_]_

@HWI-EAS443:3:62:1710:1066#0/1
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+HWI-EAS443:3:62:1710:1066#0/1
abbbababbbbabbbbababbaabb`aabbaabaab
@HWI-EAS443:3:66:1406:859#0/1
GTGATGAGAATGGGAGACCTTCACTACCTCCAGAGCTGAA
+HWI-EAS443:3:66:1406:859#0/1
aVa^aa`S[UaaYQa[^`[]`WT[LN[X`XaR_JJVWW
@HWI-EAS443:3:66:215:1547#0/1
CACCATTCTGTGCTTTCAATCTGTGCCGATTTCTTC
+HWI-EAS443:3:66:215:1547#0/1
U[`X¥^a`X`PPY]PYHQ^`VQJUSMMO_SMRQLY¥ZPX[
@HWI-EAS443:3:68:1782:1050#0/1
CGCTGCATTTCTTCAATTAACCACCTTATTTCTCAAATT
+HWI-EAS443:3:68:1782:1050#0/1
¥ab]a_`bab`bba¥L`aababbaa_aabbb_`aba^`a`
@HWI-EAS443:3:6:679:1667#0/1
GGGGGTTGCCTCTTCTTTTAAGGACTTTTGATCTCGGCG
+HWI-EAS443:3:6:679:1667#0/1
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+HWI-EAS443:3:70:185:2014#0/1
a]Z_b¥aa¥UR¥`][`_`aa_a_a]_`[a^][__a`_`
@HWI-EAS443:3:77:729:1212#0/1
GGCTGTTTCGATATCGAGGCCAAGGGTGTGCCTCTACCT
+HWI-EAS443:3:77:729:1212#0/1
aabbbaba^^^Z_[PWZQ[^[_0¥_G]^`J¥`]aXTSZa
@HWI-EAS443:3:79:1217:63#0/1
GCCGCATTTCTTCAATTAACCACCTTATTTCTCAAATTT
+HWI-EAS443:3:79:1217:63#0/1
a_^ba`aaa_aa¥`^aaa^Y]^`^^aa_`a]Ya^aVG¥aW
@HWI-EAS443:3:7:1140:1617#0/1
TTCGCTTGGAGAACTGTGATGAGAATGGGAGACCTACAC
+HWI-EAS443:3:7:1140:1617#0/1
__Y¥HW]__LOY]aX`abaR``]Q¥`X_¥[¥¥XUBBBBB
@HWI-EAS443:3:7:255:626#0/1
GGCTTTTCAGGTAGACTGTTTCTTTGGCATATCCGCAAG
+HWI-EAS443:3:7:255:626#0/1
aaaaaaaa`baU¥``_a¥¥``__V^_AY^_^]_A¥_]^^]
@HWI-EAS443:3:83:1303:1014#0/1
ACACCCTTGGCCTCGATATCGAAACAGCCACTCTTGGTGG
+HWI-EAS443:3:83:1303:1014#0/1
a_a^a^a__^`^__aa[a^U__Z^_[_¥¥^SUSY¥Y¥V¥S
@HWI-EAS443:3:83:255:1150#0/1
CTGTAATATACAGAGATTCGCTTGGAGAACTGTGATGA
+HWI-EAS443:3:83:255:1150#0/1
`¥MGVOS_]ZUJZP¥ZQ`_SW][]R¥KUNQ`_ZYJ¥^]ZR
@HWI-EAS443:3:88:606:782#0/1
GATCAGAATGGGAGACCTTCACTACCTCCAGAGCAGAAAT

+HWI-EAS443:3:88:606:782#0/1
a`[GW_S_¥[a_S`Y_`[XRaYZ_¥]U]Q^]X^X]^U]^U
@HWI-EAS443:3:89:34:1016#0/1
GTCGGCATTCTTCAATTAACCACCTTATTCCTCAAATT
+HWI-EAS443:3:89:34:1016#0/1
a`a_`_`^a^`_`]]aaJ_¥`^^^_S^`_`^`_`_`¥H]_`
@HWI-EAS443:3:94:161:1931#0/1
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+HWI-EAS443:3:94:161:1931#0/1
T`URaS¥[``_`aab]SYbbX_`]ab]aYa``_`a¥[Xaa
@HWI-EAS443:3:94:369:2000#0/1
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+HWI-EAS443:3:94:369:2000#0/1
`a¥b`¥aWZR[YY`ZK^Y`^a_ZR^]]T_TYH__`XVFL
@HWI-EAS443:3:96:1619:1622#0/1
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+HWI-EAS443:3:96:1619:1622#0/1
`]Q]ab`_Z_VY`^a`]a_`aa]ZK_X`^Y[¥M]^TUX][
@HWI-EAS443:3:99:641:956#0/1
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+HWI-EAS443:3:99:641:956#0/1
aa^KVabbaV¥aaaa]`abWbaa^U[YR_]SaRKVV]L^a
@HWI-EAS443:3:9:65:656#0/1
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+HWI-EAS443:3:9:65:656#0/1
abWD[X¥aQa[b_aa`a_Y_a_`a_X`Va_][[a`_`_`_`a_`
@HWI-EAS443:3:9:994:1781#0/1
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+HWI-EAS443:3:9:994:1781#0/1
a`aa_aXaaaaa__a`a]a_`^a`^Xa]RKRP][YXBBBB
@HWI-EAS443:3:100:941:1878#0/1
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+HWI-EAS443:3:100:941:1878#0/1
``GWaY_¥^_`a_`¥][[a]____[DP`S`YG`^Y`Z``
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+HWI-EAS443:3:15:1257:1235#0/1
^^¥[^`^``bb]aa`T[]]DR_[a[S_a^aaVabaaa¥N`a
@HWI-EAS443:3:15:1654:119#0/1
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+HWI-EAS443:3:15:1654:119#0/1
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@HWI-EAS443:3:25:1723:324#0/1
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+HWI-EAS443:3:25:1723:324#0/1
abbYD^bbba_bb]aaababaaa¥Yb`bbaa]_aZa`^aa
@HWI-EAS443:3:61:1091:1953#0/1
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+HWI-EAS443:3:61:1091:1953#0/1
aa____^abaa_a`V]_aaaa`b^D^aaaa`a`0__`Z^^^

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+HWI-EAS443:3:100:1106:493#0/1
`TO¥`¥`X`aaY^Z[^_TXTQV__S^YWX]VFQXWUUVBB
@HWI-EAS443:3:100:1205:253#0/1
GCCGCATTTCTTCAATTAACCACCTTATTTTCGTCAAATTT
+HWI-EAS443:3:100:1205:253#0/1
a_Pa_`Y_aGaZS^^a_Q]ZPaWPXW^__`IN_GWX^_BB
@HWI-EAS443:3:100:1689:1172#0/1
GAAAGAGGAATCCAGCGAGACAATTAGAATGACAATTGCA
+HWI-EAS443:3:100:1689:1172#0/1
_UW¥_aaaKUSVTR^NY][Y_¥F[ONY_UX]ZLY¥BBBBB
@HWI-EAS443:3:100:1693:656#0/1
CACGGTTCGAGTGTCTGAAAATATACAGAGATTCGCTTGG
+HWI-EAS443:3:100:1693:656#0/1
Sa`R]¥Zbab`baU`b_[H_bbbaaa[baa_S``_Z¥`[b
@HWI-EAS443:3:100:196:1941#0/1
AGGCAACACCCTTTGCCTCGATATCGAAACAGCCACTCTT
+HWI-EAS443:3:100:196:1941#0/1
]WYGTWVZZZQW^HRa`[]_XJ`__HRXZBBBBBBBBBB
@HWI-EAS443:3:100:26:79#0/1
TGATGCTACTAAGGGCTTTCAGTACTGAGGAGGGAGCAATAGT
+HWI-EAS443:3:100:26:79#0/1
aa`_a_^`_`__aa`¥^`^^_X`a^`_Y`^^Y^YXX¥V]B
@HWI-EAS443:3:100:301:444#0/1
AGAAACTGTGATGAGAATGGGAGGCCTTCACTACCTCCAG
+HWI-EAS443:3:100:301:444#0/1
aYUb]aaSN¥`[PTb__XJ`a^bUZHZZNZ_a_SDK^`B
@HWI-EAS443:3:100:374:1792#0/1
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+HWI-EAS443:3:100:374:1792#0/1
a]Za`^_aR¥__a_X`_`a`¥`_`_RO]_^`M^]RVOXWBB
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+HWI-EAS443:3:100:473:1876#0/1
aa^^SRX]Q`YQKX`^b^bXURa``Y_^]a`Y^GZa`J`_
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+HWI-EAS443:3:100:753:1956#0/1
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+HWI-EAS443:3:100:905:1928#0/1
`a^aa`N`aT`ab]^aba`_0FG`_^YF¥^^¥]RBBBB
@HWI-EAS443:3:10:1126:432#0/1
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+HWI-EAS443:3:10:1126:432#0/1
abbbbbbba``¥[abb`_T]_`bba_bbbX¥_¥aaaX¥aS`
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@HWI-EAS443:3:13:1067:1605#0/1
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+HWI-EAS443:3:13:1067:1605#0/1
a`a^`_TQ__W___NI¥`_aaRYM0]Z`aa[UMRP]HX]_
@HWI-EAS443:3:13:1197:655#0/1
CCTCAGTGAAAGCCCTTAGTAGCATCAAGGTCTCTAATCG
+HWI-EAS443:3:13:1197:655#0/1
abbaab`aaabaaaaaaaa_aba_a``_aa^`aaaa_a^a
@HWI-EAS443:3:13:1693:1616#0/1
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+HWI-EAS443:3:13:1693:1616#0/1
L`__b_b__b_ababUaab^`bU^baZ`_ab]aG_VI____
@HWI-EAS443:3:13:246:1257#0/1
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+HWI-EAS443:3:13:246:1257#0/1
VbaaJVIURL¥X`PSSa`^_QQSVYV`YP__]]GZ¥FPJa
@HWI-EAS443:3:13:510:621#0/1
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+HWI-EAS443:3:13:510:621#0/1
^Q``abaV[Z[a_a`_[a_aUU¥][ZRZN[ZTP^`__BB
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+HWI-EAS443:3:14:1240:1475#0/1
a[TUUUPV_ZVa[QYZU[]_ZVFR^P[WTLJSYXYVQRVV
@HWI-EAS443:3:14:1730:2004#0/1
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+HWI-EAS443:3:14:1730:2004#0/1
Sa`¥a]aVaab`¥`SaPaaY_U`^YaVFFWTF¥IUaI[Z_
@HWI-EAS443:3:14:189:640#0/1
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+HWI-EAS443:3:14:189:640#0/1
aaba`a]YRDYaU^[Z¥_^¥__^`¥`W¥`_`¥¥`_`_W¥W^
@HWI-EAS443:3:14:221:1369#0/1
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+HWI-EAS443:3:14:221:1369#0/1
abQHW_[_]b`_baa``__Yaa_ZSZHH[X_a^¥]aaTKU¥
@HWI-EAS443:3:14:236:1347#0/1
GCCGCATTTCTTCGATTAACCACCTTATTTCTCAAATTT
+HWI-EAS443:3:14:236:1347#0/1
aa_]aa¥]VSX][I^Y_S¥aa¥[`]a`aZZ¥¥a_`[a_Y
@HWI-EAS443:3:14:390:1231#0/1
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+HWI-EAS443:3:14:390:1231#0/1
¥_`^`_``aab``]¥¥a_X¥[a¥MN`[_aa`¥¥Y`a¥S^[_
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+HWI-EAS443:3:14:522:1792#0/1
^a`Q^bIa]aa_]M_[M[_]]_`_``TS_aTZP__^_^_
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+HWI-EAS443:3:14:567:1364#0/1
_¥VRYTXNQaa]_Va_X]_ZaS[XGPG`_¥MHU`ba¥R¥`
@HWI-EAS443:3:14:78:1579#0/1
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+HWI-EAS443:3:14:78:1579#0/1
a¥__`aaaaSaaaa`^a_a^^Za]_a`aaaa^W`_Y``_
@HWI-EAS443:3:15:1043:1047#0/1
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+HWI-EAS443:3:15:1043:1047#0/1
abbbbbbabbbabaab`ab``aaaaaaaa]`¥`_`a_aaa`
@HWI-EAS443:3:15:148:468#0/1
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+HWI-EAS443:3:15:148:468#0/1
aaa]P¥Ta`_TZP___`_`_`aZ[``aa^a`a[aX_Va_¥
@HWI-EAS443:3:15:1563:1963#0/1
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+HWI-EAS443:3:15:1563:1963#0/1
ababbab[`X`baGaQ_Y_GN_]_^WQXY`_a]_NG`Q¥¥
@HWI-EAS443:3:15:1771:1015#0/1
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+HWI-EAS443:3:15:1771:1015#0/1
YN¥S]`]aS[_TWZ`S_b[¥]XW_^aZ^^ROY`]TQZYR[
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CACGGTTCGAGTCTCTGAAAATATACAGAGATTCGATTGG
+HWI-EAS443:3:15:438:422#0/1
ababb^`b^bb`ba_ab_aaaaaa`aaa_``__^UDR___
@HWI-EAS443:3:15:560:1202#0/1
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+HWI-EAS443:3:15:560:1202#0/1
`a`_a_Va_^TX]FQW_a]SXY`_^__Y_]`][UG_S][U
@HWI-EAS443:3:16:1122:715#0/1
GAAAATATACAGAGATTCGCTTGGGAGAACTATGATGAGA
+HWI-EAS443:3:16:1122:715#0/1
YZ¥^]Z_a_]a___aa¥a`^aa]Z]WZ¥`]`a_^[ZaT
@HWI-EAS443:3:16:1147:1948#0/1
GATATCGAAACAGCCACTCTTGGTGGGAAACAAATCGTGG
+HWI-EAS443:3:16:1147:1948#0/1
abbbbaa`aaaa`¥a^`_^SSK`¥`_____^^X`R^Z
@HWI-EAS443:3:16:1510:1549#0/1
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+HWI-EAS443:3:16:1510:1549#0/1
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@HWI-EAS443:3:16:1521:1118#0/1
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+HWI-EAS443:3:16:1521:1118#0/1
^aaa¥[aa__b_a`_¥_]PLT]a¥XWa¥W`R^]GU_W[^
@HWI-EAS443:3:16:739:453#0/1
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+HWI-EAS443:3:16:739:453#0/1
aaaababb^a`aaa_aaba]_aa`a`aaaa`_^_aa__a

@HWI-EAS443:3:16:739:845#0/1
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+HWI-EAS443:3:16:739:845#0/1
ababbabbba___aaaaa`^`_]aaaaa__aa^`^`_`_`
@HWI-EAS443:3:16:775:523#0/1
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+HWI-EAS443:3:16:775:523#0/1
abaa`abaaaaa`aaa_aaa`[a_aa_a_X`a¥U`[_Ua
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+HWI-EAS443:3:16:866:594#0/1
a`[YaabbYb^¥aYZ]¥T`aa[a`_]Q_^aX_XFL__VQ_
@HWI-EAS443:3:17:1072:1816#0/1
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+HWI-EAS443:3:17:1072:1816#0/1
aaaa_baYaaaaa`abaaaa`_`¥`_a`__`__a[_]`
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+HWI-EAS443:3:17:1388:1806#0/1
aaa__aaa_^ba`b`_`^TWTW^Za`VaX_UVZ^Z__ZV
@HWI-EAS443:3:17:1676:1972#0/1
GTCGCTTTCAATCTGTGCCGATTTATTCAATTAACCACC
+HWI-EAS443:3:17:1676:1972#0/1
a^U]XT¥QF¥QNVXKWKV^OF`YXGX_XR^YXBBBBBBBB
@HWI-EAS443:3:17:1678:1214#0/1
GCCGGATTTCTCAATTAACCACCTTATTTCTCAAATTT
+HWI-EAS443:3:17:1678:1214#0/1
a_L]DU^PMXVVV¥ZUSU``WNR0aa`Q¥a]UaR]LNX]`
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+HWI-EAS443:3:17:1788:379#0/1
a__[X]ZS`__aU_^PWYUUUUVSUFVXOYZMRVX_XORV
@HWI-EAS443:3:17:317:580#0/1
CGCACGCAAAGAGGGCCTATTATCCTTTGCCTAGGCATGA
+HWI-EAS443:3:17:317:580#0/1
aaaa¥aaa`X`_^]Z^aaa`_`_____¥¥`_`_¥¥_`^
@HWI-EAS443:3:17:930:77#0/1
GAAACAGTGATGAGAATGGGAGACCTTCACTACCTCCAGA
+HWI-EAS443:3:17:930:77#0/1
a_b`QPaiB]_b_b`[abaaYa]_`[_]_X_]¥0_ZPS_
@HWI-EAS443:3:18:341:1681#0/1
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+HWI-EAS443:3:18:341:1681#0/1
^^aYa^a`aSZ]X_]_Va`^aJYa[_a`aa_a`____¥]¥
@HWI-EAS443:3:18:485:250#0/1
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+HWI-EAS443:3:18:485:250#0/1
a[[XXX¥a_] [QY_`PRMRPL[H[[NPG¥TTQQWVNHVN
@HWI-EAS443:3:18:668:1337#0/1
CGGCACAGATTGAAGGCGACAGAGAATAGTTTCGAACAA

+HWI-EAS443:3:18:668:1337#0/1
a¥]S¥ba___ZZQ]FX`a]NaaQ`¥_]`_ZSQF¥`]X]_
@HWI-EAS443:3:18:750:1627#0/1
GTCATGTCAGAAAGGTAGCGCGAAGTGGGTACAGATGCAA
+HWI-EAS443:3:18:750:1627#0/1
a_¥aa`_a^]a]a_Y_a__^_^_¥VQ_]Z_]_[^]X]^
@HWI-EAS443:3:18:801:1341#0/1
CTTGGAGAAACTGCGATGAGAATGGGAGACCTTCACTACC
+HWI-EAS443:3:18:801:1341#0/1
aa`a^a_`aa__a`_`^`_`_____]`_`U]_]`UW_]U
@HWI-EAS443:3:19:1279:121#0/1
CTCCCTCCTCAGTGAAAGCCCTTAGTAGCATCAAGGTCTC
+HWI-EAS443:3:19:1279:121#0/1
ab`^^bb¥^XaaX`_a_XZQX]aV__b`_[[LYX``RY^V
@HWI-EAS443:3:19:343:1723#0/1
GCCCTTAGTAGCATCAAGGTCTCTAATCGGTTAAAGATTA
+HWI-EAS443:3:19:343:1723#0/1
[`bbabb]_abbb[_b¥bb_bbbb_bbb_a_`aa`_a`aa
@HWI-EAS443:3:19:440:1033#0/1
GCCGCCTTCTTCAATTAACCACCTTATTTCTCAAATTT
+HWI-EAS443:3:19:440:1033#0/1
a`_P]NR_]¥a`_a_b_aa_bYaa`a][__aaa_]_NY[^
@HWI-EAS443:3:19:725:1336#0/1
CACGAGACTGGTTCATGCTCAGGCCTAGGCAAAAGATAAT
+HWI-EAS443:3:19:725:1336#0/1
a_]aVUQ_WVXPP`¥LL[_[HJRVa¥_N[XLQ_¥Y[V_[V
@HWI-EAS443:3:1:117:293#0/1
GAAACTGTGATGAGAATGGGAGACCTTCACTAGCTCCAGA
+HWI-EAS443:3:1:117:293#0/1
a`¥_H[U]`bbba_N]WW¥`X^VOST[_ZQX¥H]OF[BBB
@HWI-EAS443:3:1:1418:1447#0/1
CTCCCCTTCTCATCACAGTTTCTCCAAGCGAATCTCTGTA
+HWI-EAS443:3:1:1418:1447#0/1
`aa_abXbbbbbb[b`aaa_aTbaabababa`a_`]abaa
@HWI-EAS443:3:1:590:84#0/1
ACAATTGCATCTGTACCTACTTCGCGTTACCTTTCTGACA
+HWI-EAS443:3:1:590:84#0/1
aZ_]a^aa0_[0aaZ¥^W`_X^aV_^aZ^^WO_^_V]_BBB
@HWI-EAS443:3:1:704:817#0/1
CAGAGATTCGCTTGGAGAAAGTGTGATGAGAATGGGAGAC
+HWI-EAS443:3:1:704:817#0/1
a^a¥aW_baa¥a]b¥abaaYD^`a`ZXX_¥QaabaBBBB
@HWI-EAS443:3:1:723:161#0/1
ATGAGAACGGGAGACCTTCACTACCTCCAGAGCAGAAATG
+HWI-EAS443:3:1:723:161#0/1
_bb_b`_VZ^aaa[GQV`_aX`_Y[_O`_RR^R^^UXBBB
@HWI-EAS443:3:20:1100:1143#0/1
GCGCTACCTTCTGACATGACCCTCGAGCAAATGTCACGA
+HWI-EAS443:3:20:1100:1143#0/1
aaaaaaaa`aa`_aa_`aa__^_^aU_WTWZ¥^VWV[W

@HWI-EAS443:3:20:1316:843#0/1
CAGTCAAAGCCCTTAGTAGCATCAAGGTCTCTAATCGGTT
+HWI-EAS443:3:20:1316:843#0/1
abbbbabbbaabbbbbbbb^bbaabaa^_babbba`aa[b
@HWI-EAS443:3:20:811:426#0/1
CGATATCGAAACAGCCACTCTTGGTGGGAAACAAATCGTG
+HWI-EAS443:3:20:811:426#0/1
abZS_]`]]^aa[U^^¥HTaaaV`a`UYRaa^[TYW[
@HWI-EAS443:3:21:1337:816#0/1
GAATGGGCGACCTTCACTACCTCCAGAGCAGAAATGAAAA
+HWI-EAS443:3:21:1337:816#0/1
`XX[]YEX]U¥__^____^`[[RU^[`S[`WPZZ_U¥¥Y
@HWI-EAS443:3:21:1348:1221#0/1
ATCGAAACAGCCACTCTTGGTGGGAAACAAATCGTGGAAT
+HWI-EAS443:3:21:1348:1221#0/1
a`aa`ab_[^_____]S]]OSZ[_`U_]V_]^SP^Y`_]RH
@HWI-EAS443:3:21:156:20#0/1
AGAATGGGCGACCTTCACTACCTCCAGAGCAGAAATGAAA
+HWI-EAS443:3:21:156:20#0/1
ab`X¥bb`K¥`b^YRaZab_`_]`a¥[aX^aa[MG¥YYYYY
@HWI-EAS443:3:21:1658:1855#0/1
GAGAAACTGTGATGAGAATGGGAGACCTTCACTACCTCCA
+HWI-EAS443:3:21:1658:1855#0/1
a[aaaa¥Z`[ba[_[`]¥a[TR^G[WFZRW]H]SSVYJX]
@HWI-EAS443:3:21:388:1654#0/1
CCGCATTTCTTCAATTAACCACATTATTTCCCTCAAATTTCT
+HWI-EAS443:3:21:388:1654#0/1
ab]]¥a¥¥¥^YY^aaaab[U^UGYaaa_Y^`¥V_M^`^a
@HWI-EAS443:3:21:574:896#0/1
CGCATTTCTTCAATTAACCACCCTATTTCCCTCAAATTTCT
+HWI-EAS443:3:21:574:896#0/1
^`bb_bba^bba^b`]`babbaaabbaaa`aaa]_aa`a`
@HWI-EAS443:3:22:1657:1038#0/1
ATCGAAACAGCCACTCTTGGTGGGAAACAAATCGTGGAAT
+HWI-EAS443:3:22:1657:1038#0/1
aa_`_`a__b`Xa_]W`_`[X__[[^^Z^^_XZ_W_U]Z^
@HWI-EAS443:3:22:913:359#0/1
GTCGCATTCAATCTGTGCCGATTTCTTCAATTAACCACC
+HWI-EAS443:3:22:913:359#0/1
¥``]`GY`]aZZTSaSaVRRWRY^Y¥_QJWS_^__[^]T
@HWI-EAS443:3:23:132:438#0/1
GGCCTCGATATCGAAACAGCCACTCTTGGTGGGAAACAAA
+HWI-EAS443:3:23:132:438#0/1
¥T_a`aW^b]_`_Y`XR¥aabaa¥^`][Q_a¥Z¥HGQV¥
@HWI-EAS443:3:23:433:238#0/1
GGCTGTTTCGATATCGAGGCCAAGGGAGTTGCCTCTTCCT
+HWI-EAS443:3:23:433:238#0/1
abba]P[b^ZW^`]S]ZX`Z]__V`_`[¥FWP[[U_]PY`
@HWI-EAS443:3:24:411:780#0/1
CTTTAACCGATTAGAGACCTTGATGCTACTAAGGGCTTTC

+HWI-EAS443:3:24:411:780#0/1
`[[[]`b^]bbb¥^W]a_Ya`aa^`_Z__aa[[[[[YRU]_]`
@HWI-EAS443:3:24:752:676#0/1
CTTGGAGAACTGTGACGAGAATGGGAGACCTTCACTACC
+HWI-EAS443:3:24:752:676#0/1
aa`[bbaa_b`aa_a[a^^a_`aa`]X_Z^¥TUaaZ[_¥]
@HWI-EAS443:3:24:769:1700#0/1
GCCCTTAGTAGCATCAAGGTCTCTAATCGTTAAAGATTA
+HWI-EAS443:3:24:769:1700#0/1
abbaaaa`_baaa`aaa¥_^_aaaa`a`^`[_`_^`__¥^_
@HWI-EAS443:3:24:81:338#0/1
GACCTTGATGCTACTAAGGGCTTTCCTGAGGAGGGAGCA
+HWI-EAS443:3:24:81:338#0/1
ab]baaa[abaaa^a`__aa_aa``]^aa`a`_aaa^a_`
@HWI-EAS443:3:24:877:1116#0/1
GAAAGCCCTTAGTAGCATCAAGGTCTCTAATCGTTAAAG
+HWI-EAS443:3:24:877:1116#0/1
abbbb[`bbaab_abaabaaab`¥aabaab`b`abX``````
@HWI-EAS443:3:25:157:1885#0/1
CAGAAAGGCAGCGAAGTAGGTACAGATGCAATTGTCAT
+HWI-EAS443:3:25:157:1885#0/1
abbbYabba`bbbabba^bba_bbbaaa`baa`aa[a``
@HWI-EAS443:3:26:1016:1761#0/1
GAAAGCCCTTAGTAGCATCAAGGTCTCTAATCGTTAAAG
+HWI-EAS443:3:26:1016:1761#0/1
aaaa[^aa`aa[b^aa^aa`_U^aaaa``¥Z[X`_Z`Y
@HWI-EAS443:3:26:1738:1410#0/1
GCCGCATTTGTTCAATTAACCACCTTATTTCCCTCAAATTT
+HWI-EAS443:3:26:1738:1410#0/1
aYR`WW`YF]``TY___RNYW[]]YT`a¥T_`T[]¥]^
@HWI-EAS443:3:26:37:488#0/1
GCCCTTAGTAGCATCAAGGTCTCTAATCGTTAAAGATTA
+HWI-EAS443:3:26:37:488#0/1
aabba`]a_bbbaabb`a`¥aabaY_a^_a_]`^Z``````_
@HWI-EAS443:3:26:648:527#0/1
GAAACTGTGCTGAGAATGGGAGACCTTCACTACCTCCAGA
+HWI-EAS443:3:26:648:527#0/1
aaa`aaa¥a_`a`a````a`a_`_Y][^^a_`^`__^]`^¥a`
@HWI-EAS443:3:26:706:576#0/1
GAGAATGGGAGGCCTTCACTACCTCCAGAGCAGAAATGAA
+HWI-EAS443:3:26:706:576#0/1
aaa[^`a_YYa_Y]__`aW[_VZZ]_[_^^VZ_¥W¥¥¥[Z
@HWI-EAS443:3:26:810:1532#0/1
GCTTGGAGAACTATGATGAGAATGGGAGACCTTCACTAC
+HWI-EAS443:3:26:810:1532#0/1
]¥a_[]¥ZU]ab]aW^Za`^`]_a]b]aaaaa]a]`a_a¥
@HWI-EAS443:3:27:1069:952#0/1
ATGGTGAAATTTCTCCAATTTGCTCCCTCCTCAATGAA
+HWI-EAS443:3:27:1069:952#0/1
]`S¥Y_bb_bbb`[_`^`b`ab_a`a`_`__]ab`_aaa

@HWI-EAS443:3:27:1118:401#0/1
ATCCGCAAGCGATTTGCAGACAATGGATTGGGCGATGCCC
+HWI-EAS443:3:27:1118:401#0/1
Z_^a[N][ZX]¥XTZa_]BBBBBBBBBBBBBBBBBBBB
@HWI-EAS443:3:27:1229:528#0/1
AGAAACTGTGATGAGAATGGGAGGCCTTCACTACCTCCAG
+HWI-EAS443:3:27:1229:528#0/1
]^b_^¥W¥ZW¥][X0^aa_TZFFM]^_TGTGX¥ST`a
@HWI-EAS443:3:27:1730:531#0/1
ACTTAGAATGACAATTGCATCTGTAGCTACTTCGCGCTAC
+HWI-EAS443:3:27:1730:531#0/1
^`¥¥¥_aSa_QT]^_V_QZaS¥^H[FU^aa`¥G]Xa`a¥N
@HWI-EAS443:3:27:304:257#0/1
GAAACTGTGATGAGAATGGGAGACCTTCACTACCTCCAGA
+HWI-EAS443:3:27:304:257#0/1
^abbaab_baab`a`aaa``aa]a`a``¥JZ¥_^[_^_^
@HWI-EAS443:3:27:485:206#0/1
TGTCTGCAAATCGCTTTCGGATATGCCAAAGGAAAAAGTC
+HWI-EAS443:3:27:485:206#0/1
]a^¥Vbbb¥_¥]_YZ^a]X[`]]]a`a]]X]SZ`HUXQX
@HWI-EAS443:3:27:60:312#0/1
CCGCATTTCTTCAATTAACCACCTTATTTCTCAGATTTCT
+HWI-EAS443:3:27:60:312#0/1
aba_[Z_]a]^Z_Za_QZ]_[_[YU_YO¥¥UY_XGP]YT^
@HWI-EAS443:3:27:75:878#0/1
GAAACTGTGATAAGAATGGGAGACCTTCACTACCTCCAGA
+HWI-EAS443:3:27:75:878#0/1
^a¥`bbaabbbbbbb^bbaa^``abaabbbaba`ab``aa
@HWI-EAS443:3:28:1025:344#0/1
GGAGAACTGGGATGAGAATGGGAGACCTTCACTACCTCC
+HWI-EAS443:3:28:1025:344#0/1
a]R^^[ZQNWL_ZV[S_WVv[_SBBBBBBBBBBBBBBBB
@HWI-EAS443:3:28:13:434#0/1
CTTAGTAGCATCAAGGTCTCTAATCGGTAAAGATTACAC
+HWI-EAS443:3:28:13:434#0/1
aa]TW^aXa`^_]WX]V``aaa`a`a`U__YY¥]]^^YLV
@HWI-EAS443:3:28:1508:175#0/1
AGTGAAAGCCCTTAGTAGCATCAAGGTCTCTAATCGGTAA
+HWI-EAS443:3:28:1508:175#0/1
a`_^`]`^YW^aaa^WZ_S[XEY]QZVPZ_`__[W]`WWW
@HWI-EAS443:3:28:432:800#0/1
CGCATTTCTTCAATTAACCACCTTACTTCCTCAAATTTCT
+HWI-EAS443:3:28:432:800#0/1
ab`X`aV_aaaaaa`a`a`Z``aaa_`_`aaZR^`W``_
@HWI-EAS443:3:28:450:396#0/1
TGAGAATGGGAGACCTTCACTACCTCCAGAGAAGAAATGA
+HWI-EAS443:3:28:450:396#0/1
OIY_¥¥U¥W^b_U_a]`[T`XZ_PXUaa[`HV_SX_GZ[
@HWI-EAS443:3:28:623:47#0/1
GCCGCATTTCTTCAATTTACCACCTTATTTCTCAAATTT

+HWI-EAS443:3:28:623:47#0/1
aaaa_`^¥^aaaaa__`a`a^X`a___^a]^^[`__^^`^`
@HWI-EAS443:3:28:769:172#0/1
TGATGCTACTAAGGGCTTTCAGTACTGAGGAGGGAGCAATAGT
+HWI-EAS443:3:28:769:172#0/1
¥bbbb`a`^bbbaa_`abaa`^]_baa`aa_aX`^aa_]`
@HWI-EAS443:3:28:930:291#0/1
GAAACTGTGATGAGAATGGGAAACCTTCACTACCTCCAGA
+HWI-EAS443:3:28:930:291#0/1
R__TT`aS^aS[U¥N`___NRF]000GM_WRZHZZXS_a[
@HWI-EAS443:3:29:920:689#0/1
GAAAGCCCTTAGTAGCATCAAGTCTCTAATCGGTTAAAG
+HWI-EAS443:3:29:920:689#0/1
a_]_XNTZW]aVXWVQ[_¥¥[U^WFQWX^[_WW`[OQBBBB
@HWI-EAS443:3:2:1161:1514#0/1
GCCGCATTTCTTCAATTAACCACATTATTTCCCTCAAATTT
+HWI-EAS443:3:2:1161:1514#0/1
aY]Y__ZQ_^ZWZU[a`YKZWaVLP_[a`_Z]`^`W^^^_
@HWI-EAS443:3:2:1167:1897#0/1
GCCGCATTTGTTCAATTAACCACCTTATTTCCCTCAAATTT
+HWI-EAS443:3:2:1167:1897#0/1
^]aa`_bbaG`^_a^a`XaS¥_aaaSa`a]^Za___^_]B
@HWI-EAS443:3:2:143:1365#0/1
TGAGAATGGGAGACCTTCACGACCTCCAGAGCAGAAATGA
+HWI-EAS443:3:2:143:1365#0/1
_a^baa`Ua`Y[]N__JabUG`R`Z^]U_aU`_U^X``Z
@HWI-EAS443:3:2:1602:876#0/1
GTGCGTTTCAATCTGTGCCGCATTTCTTCAATTAACACC
+HWI-EAS443:3:2:1602:876#0/1
a_YQ00X[___¥TY[_0QaYU`_SV[^]V^_]QPVHZXZ
@HWI-EAS443:3:2:187:307#0/1
CTCGTGACATTTCTCGAGGGTCATGTCAGAAAGGAAGCG
+HWI-EAS443:3:2:187:307#0/1
ababa]aUa_bbb_aa]Xba`VPXZa`__aaa]`bGaaRb
@HWI-EAS443:3:2:463:665#0/1
TGCCGCATTTCTTCAATTAACCACCTTATTTCCCTCAAATT
+HWI-EAS443:3:2:463:665#0/1
Z_VbaMabbaaaTSG]aba_b`a^b`_a_a[TaaaS^a_
@HWI-EAS443:3:2:576:559#0/1
CAAAGAGGGCCTATTATCTTTTGCCTAGGCAAGAGCATGA
+HWI-EAS443:3:2:576:559#0/1
aabbbabaaaabaaaaaaabaaa_aa```a``_a`_aaa
@HWI-EAS443:3:2:758:103#0/1
GAGAACTATGATGAGAATGGGAGACCTTCACTACCTCCA
+HWI-EAS443:3:2:758:103#0/1
a`aX``^aaa_____]^_^]`^^UVVXV]]Y[Y^^VIYYYY
@HWI-EAS443:3:2:786:422#0/1
CAGTAAAAGCCCTTAGTAGCATCAAGTCTCTAATCGGTT
+HWI-EAS443:3:2:786:422#0/1
abb`a`bbb___bbaa`baaab^aaaaa`babaaaSaa_a

@HWI-EAS443:3:2:886:168#0/1
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+HWI-EAS443:3:2:886:168#0/1
`a[MYW`¥a`a`V`YV^a`_Va]YNVZVVDTUMPQPTU]B
@HWI-EAS443:3:2:937:1323#0/1
GCGCCACCTTTCTGACATGACCCTCGAGGAAATGTCACGA
+HWI-EAS443:3:2:937:1323#0/1
aaa`M¥¥^¥]MGW^^¥Va_¥aZVZORP^SWLTRPUUPTQ
@HWI-EAS443:3:2:987:1181#0/1
AGAAACTGTGATGAGAATGGGAGACCTTCACTACCACCAG
+HWI-EAS443:3:2:987:1181#0/1
^`]b[``_T¥aa`]a[ababaa`[]aaaTa[aa^ZaPGRY
@HWI-EAS443:3:30:108:801#0/1
GAAACTATGATGAGAATGGGAGACCTTCACTACCTCCAGA
+HWI-EAS443:3:30:108:801#0/1
a_Y¥aabbba_baa_aabbaaaaaaabaaaaaa_a`__^
@HWI-EAS443:3:30:1180:540#0/1
GATGAGAACGGGAGACCTTCACTACCTCCAGAGCAGAAAT
+HWI-EAS443:3:30:1180:540#0/1
aaa`aa`a`aa_aa`[a`¥a`^¥`^`^`__`V`_Y^¥^
@HWI-EAS443:3:30:1663:1066#0/1
AGAAACTGTGATGAGAATGGGAGACCTTCACTACATCCAG
+HWI-EAS443:3:30:1663:1066#0/1
^^`_]`_`_¥a`V]a`a[[^_WX]a_]YX]UGQOFZ¥
@HWI-EAS443:3:30:1759:571#0/1
GCCGCAGTTCTTCAATTAACCACCTTATTTCTCAAATTT
+HWI-EAS443:3:30:1759:571#0/1
`¥XX¥¥IM¥[`aXZ]VYZPXQW^[_]a^TT]__]^R^Y¥
@HWI-EAS443:3:31:1565:774#0/1
ATGAGAATGGGCGACCTTCACTACCTCCAGAGCAGAAATG
+HWI-EAS443:3:31:1565:774#0/1
RUaW¥_a_W_¥I_`^V¥]_X^bY]aZ_a`YSaZb[[PQa
@HWI-EAS443:3:31:1591:1698#0/1
TACAGAGATTGCTTGGAGAAACTGGGATGAGAATGGGAG
+HWI-EAS443:3:31:1591:1698#0/1
V__`^`¥```S]RP]]M^Z_]^YYZJPWdWHT]X[]^R^
@HWI-EAS443:3:31:1701:1437#0/1
GAAACTGTGATGAGAATGGGAGACGTTCACTACCTCCAGA
+HWI-EAS443:3:31:1701:1437#0/1
aX]¥JYZSTOZ^NGYYP[BBBBBBBBBBBBBBBBBBBB
@HWI-EAS443:3:31:529:1918#0/1
GCCGCATTTCTTCAATTCACCACCTTATTTCTCAAATTT
+HWI-EAS443:3:31:529:1918#0/1
`bbba`a_bbbabbabb_bbabbaaa]baabaabbbaa``
@HWI-EAS443:3:31:793:1648#0/1
CCTCGATATCGAAACAGCCACTCTTGGTGGGAAACAAATC
+HWI-EAS443:3:31:793:1648#0/1
ab`b``Yaa_a_aa`aaa`_]^^¥WIZ^^^`_[]`Y_V¥
@HWI-EAS443:3:31:976:1128#0/1
ATCGAGGCCAAGGGTGGTGCCTCTTCTTTTAAGGACTTT

+HWI-EAS443:3:31:976:1128#0/1
ab_Raaa`a`a`_UD¥G[_`a`^`^`_a`aaa_]`^¥]^`_`_`
@HWI-EAS443:3:32:1265:12#0/1
GTCGCTTTC AATCTGGGCCGCATTTCTTCAATTAACCACC
+HWI-EAS443:3:32:1265:12#0/1
_WX`]TZ__^¥¥¥Y_H]]^ [P^`_XTU000[PVQXFX[^X
@HWI-EAS443:3:32:143:444#0/1
CCTCTTTC AAGATCCATTCCACGATTTGTTTCCCACCAAG
+HWI-EAS443:3:32:143:444#0/1
]Y]]]]¥PU]]U]]V]][]^``^`^`¥U]][_U]^`¥YNV
@HWI-EAS443:3:32:1473:67#0/1
CGTGGAATGGATCTTGAAAGAGGAATCCAGCGAGAACTT
+HWI-EAS443:3:32:1473:67#0/1
`aTa`¥`abb`b_a``]]]aa]VY__SU¥[_a¥_ODXX`a
@HWI-EAS443:3:32:1615:1999#0/1
TGGCTGTTTCGATATCGAGGCCAAGGGGGTTGCCTCTTCC
+HWI-EAS443:3:32:1615:1999#0/1
]baabaVa`LIXP]TFPXS`VTQa[_[FXGZHLFRPW`YY
@HWI-EAS443:3:32:1753:1367#0/1
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+HWI-EAS443:3:32:1753:1367#0/1
`b_¥TQ_Z¥P¥0Qq[_T0^W]]VZR[a`_NXHaPaU_[
@HWI-EAS443:3:32:405:564#0/1
AGCCACTCTTGGTGGGAAACAAATCGTGGAATGGATCTTG
+HWI-EAS443:3:32:405:564#0/1
`_a``aa`^a`aUVY¥Taa^a__[[aUaUUZX_U^U_]_X
@HWI-EAS443:3:32:843:550#0/1
GGCTGTTTCGATATCGAGGCCAAGGGGGTTGCCTCTTCCT
+HWI-EAS443:3:32:843:550#0/1
`[```N[_T]XTUVRVDPWU[[YOYTNPDRPRXZXUPU^B
@HWI-EAS443:3:32:856:1605#0/1
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+HWI-EAS443:3:32:856:1605#0/1
aa_`^`]^`PX`a`_T¥`_a`^¥`_UX_VUVa¥RQXS`]W
@HWI-EAS443:3:32:856:1948#0/1
GAAACTGTGATGAGAATGGGAGACCTTCACTACATCCAGA
+HWI-EAS443:3:32:856:1948#0/1
UT]^`^`Y^`a^U]¥_RRXWT_b]Y¥^`T_MR__G[¥a`]Y
@HWI-EAS443:3:32:918:1015#0/1
GTGATGAGACTGGGAGACCTTCACTACCTCCAGAGCAGAA
+HWI-EAS443:3:32:918:1015#0/1
`_XNX^`a^GZa`^¥`^Y^^a_XKP[]PQP_`^^¥^U_TLP
@HWI-EAS443:3:33:1041:1092#0/1
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+HWI-EAS443:3:33:1041:1092#0/1
abbba````^a_aabX__a^[_`_a__XXVWLXU`_L]Y_a
@HWI-EAS443:3:33:1098:435#0/1
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+HWI-EAS443:3:33:1098:435#0/1
`baa`V¥a^¥__`Z]`aa_`^`_0[aVa`a`ZKX``^Z[_

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@HWI-EAS443:3:33:1327:1001#0/1
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+HWI-EAS443:3:33:1327:1001#0/1
¥Zbbabbbabb]_]bba`[aaa_ba_abaaa0`a`a^[a_
@HWI-EAS443:3:33:1331:1384#0/1
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+HWI-EAS443:3:33:1331:1384#0/1
a¥babbbaabbbbaabb_H_abbba`a`a^]a]_a`a`
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+HWI-EAS443:3:33:471:1010#0/1
aa^bb`aaa_`a`a`aa`_`Ra¥`a`a__ZWV_^¥_^
@HWI-EAS443:3:33:47:621#0/1
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+HWI-EAS443:3:33:47:621#0/1
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a¥]bbaa__Ob_b^Zaa`^SXa`^`[V^¥WGTX¥]SSX
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+HWI-EAS443:3:33:940:1162#0/1
aa`_a`aaa_`a`a`a`a`_`^Z^_¥Y^_^]XZX^^^^_
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+HWI-EAS443:3:33:973:1867#0/1
^Y¥XT`^^^^]b]VZa]]`a_]aVPaa_a`aGF_¥b_a_
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+HWI-EAS443:3:33:97:1180#0/1
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+HWI-EAS443:3:34:1562:1936#0/1
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+HWI-EAS443:3:34:20:1249#0/1
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+HWI-EAS443:3:34:599:721#0/1
a_ZY_]Xaa^a`a`[[a``][^_Z]YX^[^[[^^Z^Z[U
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+HWI-EAS443:3:35:1057:1906#0/1
^bYa`^^`^`bb`aV`aa`baaa¥aaUM_aaaaaU`
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TGAGAATGGGAGACCTACACTACCTCCAGAGCAGAAATGA
+HWI-EAS443:3:35:1092:1080#0/1
aaa`aaaaa]`a`_`aaaa`a^_a¥`_____^^`^Z_
@HWI-EAS443:3:35:12:907#0/1
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+HWI-EAS443:3:35:12:907#0/1
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+HWI-EAS443:3:35:1533:1331#0/1
a`XORZ]^`__]Z]^a_ZaWX]¥[_a`a`a_Y]Z]]_aT`
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+HWI-EAS443:3:35:337:1234#0/1
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+HWI-EAS443:3:35:376:1933#0/1
]FF]_V[¥ZQa¥XP¥`PPLU¥^URMRHQFYaLF^^^UUU_
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+HWI-EAS443:3:35:43:1631#0/1
a_¥¥a^a[¥_¥¥¥__H[bb_aa`aa¥Y]¥FV_`]T_ba^
@HWI-EAS443:3:35:666:1479#0/1
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+HWI-EAS443:3:35:666:1479#0/1
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+HWI-EAS443:3:36:113:1749#0/1
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+HWI-EAS443:3:36:1647:276#0/1
_ab_bbab`b_0babbab`bbabbbbbbbaababaYabb^b
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+HWI-EAS443:3:36:1703:739#0/1
Y__^U`b`b]baabYb]^`[aaK]]_N]YJWG_LaaZ_Sa
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+HWI-EAS443:3:36:1716:674#0/1
ab]a^^abb`¥]a_^¥a`[Y^Z¥U_`XTJX]YVVJVZ]WZ
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+HWI-EAS443:3:36:349:838#0/1
X[[OXI_a¥Y^_0^¥V`¥QUZWUZOS`[V]HJSW¥]MV¥L
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@HWI-EAS443:3:36:538:705#0/1
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+HWI-EAS443:3:36:538:705#0/1
aa]`aaa]F¥_a][`QY`^]]]a]_WYVPQ[UR^^¥TY`M
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+HWI-EAS443:3:37:1165:1942#0/1
_ab_abaaa`baaa^aa[W`bbaYb`aa[E[b_aV_`aa_
@HWI-EAS443:3:37:1280:1843#0/1
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+HWI-EAS443:3:37:1280:1843#0/1
`aa`a_aa`aY_Y__^]_]aa``aa`_ZGb`a^`_]^S]
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Uabbb`abaab`a]ab^¥b_ba^aa¥][G[^¥GNZ^U_`X
@HWI-EAS443:3:37:1584:468#0/1
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+HWI-EAS443:3:37:1584:468#0/1
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+HWI-EAS443:3:37:1723:866#0/1
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+HWI-EAS443:3:37:321:1112#0/1
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+HWI-EAS443:3:37:357:1477#0/1
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+HWI-EAS443:3:37:68:227#0/1
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+HWI-EAS443:3:38:1087:1699#0/1
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+HWI-EAS443:3:38:1733:553#0/1
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+HWI-EAS443:3:38:1784:1497#0/1
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+HWI-EAS443:3:38:451:1070#0/1
X¥R¥abab`^`_][b`^`aZ^]_P¥a`_a_T¥_a`^`a`_a`
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+HWI-EAS443:3:38:51:232#0/1
a`a`I¥aaaaaa`aa`a`aaaa`a_YLYa`^`^`Za`V^]_
@HWI-EAS443:3:38:870:797#0/1
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+HWI-EAS443:3:38:870:797#0/1
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+HWI-EAS443:3:39:1158:819#0/1
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@HWI-EAS443:3:39:1280:1329#0/1
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+HWI-EAS443:3:39:1280:1329#0/1
ababba[`bababbbbbbabaabaaaWaaba]_aaX¥_aT
@HWI-EAS443:3:39:545:1249#0/1
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+HWI-EAS443:3:39:545:1249#0/1
]]bb`b____aaa`baababVSa`[`WDXU`U_`_X^__¥
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+HWI-EAS443:3:39:710:1209#0/1
a`baa_aa^aa`____a`V^Va^[^a`_`__X^^X`T^]Y
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+HWI-EAS443:3:39:787:316#0/1
a`bba_aaaaa` `[¥a_]^`_^`a`_a]¥[a_Y^____[
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+HWI-EAS443:3:3:1033:1790#0/1
a[]^¥`ba[Q__ZZ^R`_W__RZ`_H]YWW]]ZNB BBBB
@HWI-EAS443:3:3:1057:77#0/1
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+HWI-EAS443:3:3:1216:1027#0/1
_WZZ_a`aaSbaVLX]`Y__¥VY]¥G^¥^X_GO[DL]SY¥
@HWI-EAS443:3:3:1392:1416#0/1
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+HWI-EAS443:3:3:1392:1416#0/1
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V¥bba`aaRR[Xa^V[M_bab¥[H^¥_aJa__aaJI_a^]
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+HWI-EAS443:3:3:68:706#0/1
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+HWI-EAS443:3:3:948:475#0/1
]a][[aa`H¥Y¥aP]U]]`_T]^U^`TGWFZ_VTZZV¥_
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+HWI-EAS443:3:40:1287:1223#0/1
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+HWI-EAS443:3:40:1329:190#0/1
a_a_]ZLX_W^RW¥W`ZVW__VN¥RDMVUTYVWWWUVVVY
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+HWI-EAS443:3:40:1571:894#0/1
abbabbbbab`bbab_aabaaaba]]XD¥a^aaaa^a[_`
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+HWI-EAS443:3:40:456:1593#0/1
aba`abbbaaaaaaba]baaaaa`¥WM]^`aaa`a__V_
@HWI-EAS443:3:40:49:1004#0/1
GAGAATGGGAGACCTTCACTACCTCCCGAGCAGAAATGAA
+HWI-EAS443:3:40:49:1004#0/1
a[]Y__a`_]__[YTT[_^^^^W[RL_S¥PX¥FKVU^UU
@HWI-EAS443:3:40:929:1257#0/1
GCCGCATTTCTTCAATTAACCACCTTCTTTCTCAAATTT
+HWI-EAS443:3:40:929:1257#0/1
```a\_Waa\_^`a^[\`a\_a\_[`\_a\_UGYV^]\_`\_PVV[X\_  
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+HWI-EAS443:3:42:120:217#0/1  
aa`aXaaaXa]\_\_YU\_W[\_`R`^^\_]\_¥]V^^^^^UGY  
@HWI-EAS443:3:42:159:1219#0/1  
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+HWI-EAS443:3:42:159:1219#0/1  
a`\_]Z]¥Z]T¥a¥ZP[¥`aaZ[^Za¥Z]a]``¥W¥][\_W]



+HWI-EAS443:3:44:1501:2043#0/1  
a`\_^`PW\$S`\_a\_\_aXaa\_KS]^XGQ^UJ\_]GXLS\_STYQ  
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+HWI-EAS443:3:44:1504:1283#0/1  
Y`a\$aa^^`^^`\_¥YW[Rbbbab\_a\$b\_X]`ZZRZ[`ZD  
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+HWI-EAS443:3:44:1654:479#0/1  
]V¥\_aY[a`\_]b¥UI¥a]R]aa`[V]`[`¥ZaRFMO\_H][Y  
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+HWI-EAS443:3:44:779:22#0/1  
abX\_[aaaab\_a`¥¥a^`a`\_]TYXM]\_aX`\_^`]^X]`X  
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+HWI-EAS443:3:45:1057:326#0/1  
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+HWI-EAS443:3:46:1005:123#0/1  
aabaab`[a`\_\_aaa`S`ba]\_`¥\_\_\_]\_\_Za^U]^`\_Y  
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+HWI-EAS443:3:46:10:607#0/1  
^`````b¥Z¥`T^]\_Z\_\_^Z\_\_\_`a[T\_`]^`Q[M]XX¥  
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+HWI-EAS443:3:47:1108:237#0/1  
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+HWI-EAS443:3:47:1235:134#0/1  
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` `W[FNY¥` ¥ZZY\_^OW\_ZYQZLQXZ`YXVZXLO]GJV¥W  
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Xaa^¥\_\_]\_bYQVaa[¥\_U\_` `` `Y]^XZZYDY`]ZF][\_  
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a\_Ya^`\_`^`\_`a^^a\_a\_`a`a`a`a`¥aa`a¥]0]\_  
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+HWI-EAS443:3:52:834:1090#0/1  
a¥Y`RWT`][Y]ZPZ\_¥VQTNX^U[VYPZ`\_^W`WPYJZ]  
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¥\_\_bb[[abb`aba\_``bbabaXa\_Z^^a^aa\_\_aaa^  
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[\_b\_]bS`\_aaW¥^QYab`\_a\_XR[UEX\_RWUaZW¥QG]]  
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a`¥]¥aaaXa]^`a`^^P\_\_b\_a\_\_a]^`W`aYa¥`S¥`  
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aa^aaaaa\_a`]aa\_]aa]aa` `Z]T]a\_`\_`^^ZF¥^BB

@HWI-EAS443:3:5:1570:864#0/1  
ACAGCCACTCTTGGTGGGAAACAAATCGTGAATGGATCT  
+HWI-EAS443:3:5:1570:864#0/1  
a`abb]a¥a¥aa^0]aaaR`aY``\_\_[a^\_a[^`\_X`Ga  
@HWI-EAS443:3:5:312:364#0/1  
AAGGGTGTGCCACTTCTTTTAAGGACTTTTGATCTCGG  
+HWI-EAS443:3:5:312:364#0/1  
aaa]aYb`\_a`a`T^\_]Y`\_\_\_T^`^Y^^^`\_^]\_\_^]B  
@HWI-EAS443:3:5:363:927#0/1  
TGCCGCATTTCTTCAATTAAGCACCTTATTCCTCAAATT  
+HWI-EAS443:3:5:363:927#0/1  
[a^^`VR¥QLR^aa`T``bUHXTYNZ`aZWov¥QKUJ¥^B  
@HWI-EAS443:3:5:490:997#0/1  
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+HWI-EAS443:3:5:490:997#0/1  
aX\_[]]X¥`[X^X^^^\_XW\_ZYSRT[]\_]\_¥\_^BBBB  
@HWI-EAS443:3:5:905:124#0/1  
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+HWI-EAS443:3:5:905:124#0/1  
aaa^\_I\_a`aN`USY¥^WWW\_¥KKMNITMTYYBBBBBBB  
@HWI-EAS443:3:60:1075:1992#0/1  
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+HWI-EAS443:3:60:1075:1992#0/1  
aaba`ab`aaa\_a`a`aaaaa\_¥aa[a\_a¥``\_^`\_\_^^  
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AGCCCTTAGTAGCATCAAGGTCTCTAATCGGTAAAGATT  
+HWI-EAS443:3:60:1269:698#0/1  
`a`a^baaaXba`abaab`aXaa`ba\_a``XX^]\_]\_[`a  
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+HWI-EAS443:3:60:1332:247#0/1  
a¥^`\_^`^[a`X]aVaY\_^LWVU]a`¥Va\_V]`^V[]W  
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AGAAACTGTGATGAGAATGGGAGACCTTCACTAGCTCCAG  
+HWI-EAS443:3:60:1432:19#0/1  
a`]Z^Z\_\_U¥Xa`Y`\_`b¥`[`[RP^]R¥VRTDSYVUS\_  
@HWI-EAS443:3:60:1765:264#0/1  
CTGTGCCGATTTCTTCAATTAACCACCTTATTCCTCAA  
+HWI-EAS443:3:60:1765:264#0/1  
abbaaaabaaaa`baa¥G^aaa\_]``aaaa`\_¥¥\_\_`^  
@HWI-EAS443:3:60:305:741#0/1  
CAGAAAGGCAGCGGAAGTAGGTACAGATGCAATTGTCAT  
+HWI-EAS443:3:60:305:741#0/1  
aa\_^\_[Y]FZ`[^abZR]Waaa^a``^]a[¥W\_^]Z^[¥  
@HWI-EAS443:3:60:367:1959#0/1  
GAAACTGCGATGAGAATGGGAGACCTTCACTACCTCCAGA  
+HWI-EAS443:3:60:367:1959#0/1  
``a\_]XXQaa`a``aba`aaHT]¥I^Zaa\_VPZNN[Y^\_¥  
@HWI-EAS443:3:60:665:1485#0/1  
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+HWI-EAS443:3:60:665:1485#0/1  
aa]Zaa`¥^^`[^¥]\_^X¥[¥`¥`\_¥`V\_``ZU\_]\_¥¥Y  
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CACTCTTGGTGGGAAACAAATCGTGGAAATGGATCTTGAAA  
+HWI-EAS443:3:60:724:1311#0/1  
aaaaabbaa^baa`abaaaaaa\_a`^R\_``][a\_\_\_\_\_]  
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+HWI-EAS443:3:61:1582:660#0/1  
ab`bYX`¥aWY^Y[\_\_\_W^XSY^\_aaaYa^SaHX[P`^^YH  
@HWI-EAS443:3:61:15:1927#0/1  
CTTTCAAGATCCATTCCACGATTTGTTTCCCACCAAGAGT  
+HWI-EAS443:3:61:15:1927#0/1  
abbbb][`ababaabb[baaa`a`\_a\_a]aa`^¥^^^BB  
@HWI-EAS443:3:61:1635:346#0/1  
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+HWI-EAS443:3:61:1635:346#0/1  
\_`abababbbbaaaX]aaaba`aa^baa\_aaaa\_\_^UaWZ  
@HWI-EAS443:3:61:945:1926#0/1  
GAAACTGTGATGAGAATGGGAGACCTTCACTAACTCCAGA  
+HWI-EAS443:3:61:945:1926#0/1  
``aa¥V\_RYaV`S`PSaa``\_a^aaX]\_a\_]\_JF[¥VVVK  
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GCCTCGATATCGAAACAGCCACTCTTGGTGGGAAACAAAT  
+HWI-EAS443:3:62:256:1760#0/1  
aa`¥U\_]MUTUU[^][^¥RUEU[UF[RQQTXSJOOZSTU  
@HWI-EAS443:3:62:701:399#0/1  
GCTGTTTCGATATCGAGCCAAGGGGTTGCCTCTTCCTT  
+HWI-EAS443:3:62:701:399#0/1  
aa^]abbab]^Y^Z\_W\_aaaZaa`YDW]a`¥XVRY[Q¥\_`  
@HWI-EAS443:3:62:873:742#0/1  
GCATTTTTTCAATTAACCACCTTATTTTCTCAAATTTCTG  
+HWI-EAS443:3:62:873:742#0/1  
```aaaaaa¥TU¥][0Ya`]aa\_]L\_``aa]PT]\_aa``  
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+HWI-EAS443:3:63:1533:1423#0/1
aXSaa_Y¥`[aY¥[aZY¥aYDWa¥^X_`]ZYU`Za¥_`[_
@HWI-EAS443:3:63:19:1290#0/1
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+HWI-EAS443:3:63:19:1290#0/1
ZSWOT[^ZUVHTYW^_Z_¥`Y¥_XV]a__`YZ``[_¥]Z
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GACCTTGATGCTACTAAGGGCTTTCACTGAGGAGGGAGCA
+HWI-EAS443:3:63:233:954#0/1
aS]]ZVa_]_PP¥NX]_]TZ_¥X[[R[RVT¥^TQX^Z]^]
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GATTAGAGACCTTGATGCTACTAAGGGCTTTCACTGAGGA
+HWI-EAS443:3:63:346:1524#0/1
aaZI¥]_Z_aZRWZ`¥__XaY`[_P¥UQZ`_a[_UFYYLU

+HWI-EAS443:3:65:812:1626#0/1
abVa¥¥0aIPNba]P^FYaX_] [NLLTGRPa`[_XHYU¥^
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CGCTTGGAGAACTGTGATGAGCATGGGAGACCTTCACTA
+HWI-EAS443:3:65:864:66#0/1
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@HWI-EAS443:3:66:1394:1421#0/1
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+HWI-EAS443:3:66:1394:1421#0/1
a^MZZ]aa_aZXWY[Z^¥]_NPYFY`TKUVN__UZUVBBB
@HWI-EAS443:3:66:36:284#0/1
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+HWI-EAS443:3:66:36:284#0/1
ababab^`^`aTZ[_ZXV_V_]`^_MY^^^ZaXGNOOY^
@HWI-EAS443:3:66:693:706#0/1
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+HWI-EAS443:3:66:693:706#0/1
`^U_Zab[I]aWOZ`U^`Z¥X[RQ_`_a¥¥TTa][`]WXX
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+HWI-EAS443:3:66:69:995#0/1
aa_aa`_a^aa`aa`_]XNYZ`^^ZUNY_YS[ZW¥^[WY
@HWI-EAS443:3:66:773:220#0/1
TAGAGACCTTGATGCTACTAAGGGCTTTCCTGAGGAGGG
+HWI-EAS443:3:66:773:220#0/1
aab^`aaaaaaaa`a`aaaa`aaa```_aa__`^`_S]_]`
@HWI-EAS443:3:66:987:1127#0/1
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+HWI-EAS443:3:66:987:1127#0/1
a`b__a¥^Z`V`aY````aa```X`ZX_a][_`[^]^YW
@HWI-EAS443:3:67:1130:914#0/1
GCCGCATTTCTTCAATTAACCACCTTATTTCCTCACATTT
+HWI-EAS443:3:67:1130:914#0/1
^_bbabaa¥0`bbbabbb]WZ_abbab`^^aa_I¥bba
@HWI-EAS443:3:67:1138:721#0/1
ATCGGTAAAGATTACACTGAAGCTCGTTTCAGTACTAT
+HWI-EAS443:3:67:1138:721#0/1
`abbbabaa```abaaab]Y[aaa`a```a`^]Y]____][
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CAAAGAGGCCCTATTATCTTTTGCCTAGGCATGAGCATGA
+HWI-EAS443:3:67:141:1179#0/1
¥ZVZI]VUN[X_]00^U¥_ZW¥_^TXH[R`Z_]Y]_RVX
@HWI-EAS443:3:67:1601:766#0/1
GGAGGAAGTGTGATGAGAATGGGAGACCTTCACTACCTCC
+HWI-EAS443:3:67:1601:766#0/1
a[_XFZ[TZ^R^U¥__aS[UPZ_N_[NNPTT_¥^Z[TTMR
@HWI-EAS443:3:67:812:220#0/1
CCTCGATATCGAAACAGCCACTCTTGGTGGGAAACAAATC
+HWI-EAS443:3:67:812:220#0/1
aa`aa``_a__¥¥_a`a_SZX)`¥]]YOS[_UX[U]ZZ[N

@HWI-EAS443:3:68:349:123#0/1
AGTGAAAGCCCTTAGTAGCATCAAGGTCTCTAATCGGTTA
+HWI-EAS443:3:68:349:123#0/1
X`abX`b_aabaa`¥aa¥a`a^a_Ga`_ab`aaa]LXH
@HWI-EAS443:3:68:979:524#0/1
GCGGCCAGATTGAAAGCGACAGAGAATAGTTTCGAACAA
+HWI-EAS443:3:68:979:524#0/1
aaa`bbabbbba`aaaaabaabaabbbabbabba^_a¥aa
@HWI-EAS443:3:69:1238:1299#0/1
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+HWI-EAS443:3:69:1238:1299#0/1
abbbbaab_bbbab`bXab`aa`¥abab`_P]F^a_X¥bb
@HWI-EAS443:3:69:1610:1432#0/1
GCCCTTAGTAGCATCAAGGTCTCTAATCGGTAAAGATTA
+HWI-EAS443:3:69:1610:1432#0/1
abY_aaaaaa`a^`YKtA^aaaa`^`____^¥W`^
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CACCCCTTGGCCTCGATATCGAAACAGCCACTCTTGGTGGG
+HWI-EAS443:3:69:1676:223#0/1
abaaabbaba`a_aaaab^a`_`^a_¥_Z`^_a`_U_[]
@HWI-EAS443:3:69:21:1626#0/1
CGCATTCTTCAATTAACCACCTTATTCCTCAACTTTCT
+HWI-EAS443:3:69:21:1626#0/1
a_^T¥babab`^abababbbba`_[baaabbabaZ`a^`
@HWI-EAS443:3:69:426:1523#0/1
GCCGCCTTCTTCAATTAACCACCTTATTCCTCAAATTT
+HWI-EAS443:3:69:426:1523#0/1
Sa`_H_¥`b`ZT^`X`[_baa`a`^¥aXaaaa]Q`_Q`
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+HWI-EAS443:3:69:557:1833#0/1
aa`]^abb`^aaaa_a__[YG[¥a]Z____]`^a_Y]Y_]`
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+HWI-EAS443:3:6:1038:235#0/1
aaaaabWb_aa]^a`b`V``_RY_US`J`_V^HXSX^Z_
@HWI-EAS443:3:6:1078:1718#0/1
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+HWI-EAS443:3:6:1078:1718#0/1
abbab`a_bbbb^bbaaaaab]]_bWbbba_baZaaaa_
@HWI-EAS443:3:6:1191:1367#0/1
GTGCTTCCAATCTGTGCCGATTTCTTCAATTAACCACC
+HWI-EAS443:3:6:1191:1367#0/1
`a^`aa_]`^`a]a¥T¥`]aa`a]T__V¥]aa^]Q]]UR
@HWI-EAS443:3:6:1264:1778#0/1
GAAACTGTGATGAGAATGGGAGACATTCCTACTACCTCCAGA
+HWI-EAS443:3:6:1264:1778#0/1
]b`T`abbb`]_Z]]]baa]aa^J0aaYWO¥a^_[Ga_a^
@HWI-EAS443:3:6:1429:1083#0/1
CTGTGGTGAAGTGGGAGACCTTCACTACCTCCAGAGCAG

+HWI-EAS443:3:6:1429:1083#0/1
Kbb_Z_^bbbYa`^W¥[ba[`aa^[b`a`NZ_a[`]_b
@HWI-EAS443:3:6:1654:261#0/1
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+HWI-EAS443:3:6:1654:261#0/1
`ba^a`ab¥F`aQa^aa^¥XX`NYa__a`aIDZ¥`__`]
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GGTTAATTGAAGAAATGCGGCACAGATTGACAGCGACAGA
+HWI-EAS443:3:6:222:1969#0/1
aaaKb¥[^XIZ_a[Y_`aaaVR_Y`^`ZFL___I_R]a
@HWI-EAS443:3:6:406:77#0/1
AACAGCCACTCTTGGTGGGAAACAAATCGTGAATGGATC
+HWI-EAS443:3:6:406:77#0/1
aa`aa__`_Ya`T^Va__]^XX^]]_Y`^X^]^_YXV
@HWI-EAS443:3:6:429:198#0/1
GCCGCATTTCTTCAACTAACCACCTTATTCCTCAAATTT
+HWI-EAS443:3:6:429:198#0/1
aa_`_^[_a`a`__^_]_^]^`¥^]V^Y]^`Z^
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GTCGCTGTCAATCTGTGCCGCATTTCTTCAATTAACCACC
+HWI-EAS443:3:6:566:1434#0/1
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+HWI-EAS443:3:6:765:720#0/1
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+HWI-EAS443:3:70:1300:909#0/1
¥¥`a`¥`aab`[ab`¥`]F]a`^aXa_abbbbb[^`aa
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+HWI-EAS443:3:70:1325:172#0/1
K__bb`¥¥¥Sa_`_bb¥RXRYaP^V_N^^[HV]VZaa[Y
@HWI-EAS443:3:70:1705:684#0/1
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+HWI-EAS443:3:70:1705:684#0/1
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@HWI-EAS443:3:70:1756:316#0/1
CACCTTGGCCTCGATATCGAAACAGCCACTCTTGGTGGG
+HWI-EAS443:3:70:1756:316#0/1
_____bb_ZZ`^^^_ab_`¥`_`^_]_^Y[X_a]H¥¥Y]

@HWI-EAS443:3:70:411:138#0/1
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aa`aaaaaa`aaaa_aa`a^Xa_a^Z]`_`^a]_`^`YX
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TTTAAGGACTTTTGTCTCGGCGGAGCCGATCAGGGAATG
+HWI-EAS443:3:70:534:892#0/1
¥^WXUX^a^W_WW¥]`ab]a``¥ZRT^ZWHKRD[QVZN[
@HWI-EAS443:3:70:910:700#0/1
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+HWI-EAS443:3:70:910:700#0/1
abaaaabaaaaaaaaaaaa_a_a`]a`a]^XX^UXU[]_`^
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CCTCAGTGAAAGCCCTTAGTAGCATCAAGGTCTCTAATCG
+HWI-EAS443:3:71:1281:1270#0/1
a``babab_`_]¥abb`b^a_aab``b_`Q^^`aXaa[]
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`b``baab`a`a^a_a_a^_Wa_Y`[ab``ab_`aa¥PU
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+HWI-EAS443:3:71:1490:599#0/1
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@HWI-EAS443:3:71:1691:1297#0/1
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+HWI-EAS443:3:71:1691:1297#0/1
abbbbab¥baa`bbbaab^ba``aaab]bb_b¥_a_a`a^
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TGTCGCTTTCAATCTGTGCCGATTTCTTCAATTTACCAC
+HWI-EAS443:3:71:43:37#0/1
a][`¥^_[¥ZQRVYYJFMUTTVXLVFYSQWX[]LDKZGNU
@HWI-EAS443:3:71:708:584#0/1
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+HWI-EAS443:3:71:991:399#0/1
``aaaa_ab]a`aa[a_`aa[`[a_Y`[aY_____G[ZS_
@HWI-EAS443:3:72:1181:773#0/1
CTTCGCGCTACCTTTCTAACATGACCCTCGAGGAAATGTC
+HWI-EAS443:3:72:1181:773#0/1
abbbbbaaa`¥b]bbb_aba`ab`bb`_`aaab`aa_aaaU
@HWI-EAS443:3:72:1248:1479#0/1
CCTTGGCCTCGATATCGAAACAGCCACTTTGGTGGGAAA
+HWI-EAS443:3:72:1248:1479#0/1
`T`^PZab`[[U_``Z_J`_Q__I¥T_YVS`Z_N]^_QZ¥
@HWI-EAS443:3:72:252:658#0/1
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+HWI-EAS443:3:72:252:658#0/1
`a`^^^`bbaaYUXV¥__aVZH][`aaaa^a[RYUY]RZ
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+HWI-EAS443:3:72:713:515#0/1
aa`aaaabaZa_aa_`aaa_^]a^a_^a`aa]a__]_^`
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+HWI-EAS443:3:73:1346:918#0/1
aaaabbbbaa`_a`]`aaa_`a`a¥_a`a¥aa`a^Z[
@HWI-EAS443:3:73:1568:746#0/1
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+HWI-EAS443:3:73:1568:746#0/1
a]aU_b``[^QZ_WS¥`¥KY[aa_`YaX_]U__UZRPWL
@HWI-EAS443:3:73:196:357#0/1
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+HWI-EAS443:3:73:196:357#0/1
a`^`aZba_____¥_`aaY]Z¥WW]_¥0¥^__T`_ZW¥]_X
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+HWI-EAS443:3:73:225:1955#0/1
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+HWI-EAS443:3:73:401:726#0/1
^_bbb_]U_] [R^[]_T_a^JRMZ`¥Zaa_]R`aU[a_a[
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@HWI-EAS443:3:73:549:851#0/1
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+HWI-EAS443:3:73:549:851#0/1
a`XH]`ab¥[__aa¥J]aaaa`_a]N_ZY`_a_L^_^Z_
@HWI-EAS443:3:74:1265:1350#0/1
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+HWI-EAS443:3:74:1265:1350#0/1
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+HWI-EAS443:3:74:342:1471#0/1
aaaaaa`_`aaaa__aX`a`__`_`_[PYZ^`____^a_]Z^
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+HWI-EAS443:3:75:1029:1182#0/1
a_I[b`S^WTZZSU`SXa_]PSR]^[\`W¥H¥S^QY^NSUX
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+HWI-EAS443:3:75:1036:684#0/1
aHZW_V_YZ]RY]^X_V¥ZNUa¥Y[\`Y^X¥__YR]]`V_
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+HWI-EAS443:3:75:1612:201#0/1
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+HWI-EAS443:3:75:97:1614#0/1
aa_^a]]U]\`VP`XZSHZRaaa]bINDZ^Y__W_PJNY_]`
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+HWI-EAS443:3:76:130:585#0/1
_a^X¥][TXabVM¥G]RDZ]Y`^aWV_UY`Z¥OUFOZ_VL
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aa`_`_^_]a]__Z^¥_^^QN]WVWRQQRHMO]VUMSMV
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Wa¥VTQW_V_¥UW¥Z¥¥¥¥I__X_Y[_^`UWUZ[LU¥^^]
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+HWI-EAS443:3:7:1007:799#0/1
aa_aaaaaa`_ba^^_a`aa¥^]_a`^a^^^`^¥HT^`^
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aa`baa`Z^a]]T)`aV_]a^YTZ``_a`aR[a__[_]YZ
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a¥_]X¥a^aa`a¥L]^¥YL_^Z__^^Xa_Z]^YUJFVPS
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+HWI-EAS443:3:7:507:1735#0/1
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+HWI-EAS443:3:82:1241:778#0/1
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+HWI-EAS443:3:82:1294:1756#0/1
Wb]_W`b_XbW¥aaabb_^`]aaaabaTaI¥]b_a]a]R
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+HWI-EAS443:3:82:1648:1572#0/1
_a_XH^_Z_] []Y^`^aaab_Q][PHTZ¥WMXPYLXPK
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+HWI-EAS443:3:82:1729:822#0/1
`bab_YabbaaQa_aa___a`a` `` ¥¥`UW`a_Wa][ZZ
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+HWI-EAS443:3:82:52:60#0/1
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+HWI-EAS443:3:82:653:556#0/1
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+HWI-EAS443:3:82:778:232#0/1
a_a`^`aa`_aaaa^a`¥__¥[`____[T[¥¥`a^`^¥`¥¥
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+HWI-EAS443:3:82:865:1587#0/1
_Z_b`T^WZ¥¥K`I¥WW_bI¥]aRFMX[LR`XO_X_a`W
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+HWI-EAS443:3:83:1187:1086#0/1
a_N¥aY¥¥bb_abXXaaa[bbbb^^[_QQ^bbYQI_YZYG
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+HWI-EAS443:3:83:1402:223#0/1
a]a`¥^a[aa`_`_`X_Za`_U[_Y____]_SWN_N_W_W
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+HWI-EAS443:3:83:582:1160#0/1
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+HWI-EAS443:3:84:127:1611#0/1
¥¥b[H[a`^^aX__¥V_^aaaa_ZUaaa]]^[a`_ZW]Z
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+HWI-EAS443:3:84:332:712#0/1
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^]_TI¥a`a[_Z_a^UR]¥NY_Y[YJX`¥a_ZUZ`VVQFJ
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+HWI-EAS443:3:84:844:1482#0/1
_VTWWZ`_Q[TOZO_U_^a¥WGLR`_]Z¥WTZYNYP[Z][
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+HWI-EAS443:3:85:1185:368#0/1
a_aaba_aaYa_a`aa`_aaaX`aaa_aa__K¥`aZ`_
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+HWI-EAS443:3:85:1366:1536#0/1
ab^ab^_`YYa]aY_Ub`````a¥GVZ][¥_`VIPaZXa
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aa`Z`TWaa_a^a^b_aaaUDT]_a_`_`_aaa`TXaY]

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+HWI-EAS443:3:86:1697:42#0/1
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+HWI-EAS443:3:86:238:1314#0/1
_b_ba[a`[¥¥ZYR_¥aa_¥PE]W¥TZ_XW__aa¥^)`XW
@HWI-EAS443:3:86:529:203#0/1
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+HWI-EAS443:3:86:529:203#0/1
U_`a_ZMRUab__[]`bb¥_`¥¥_aWb]a[FU]Z_PVTT[
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+HWI-EAS443:3:86:887:876#0/1
``[abaa`¥a^]_ba_¥]_X_^baaa[ab¥^^aa`UWX
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+HWI-EAS443:3:86:911:1635#0/1
`S_^`a_¥G_]_b_a]¥Xaa_V[VPQTX`¥_[YH¥]]U]
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+HWI-EAS443:3:87:1033:2021#0/1
a`_]a`a^ZaaYX`^`_`_ZP`_`_YSV`_^W`_^W_Z^
@HWI-EAS443:3:87:728:1548#0/1
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+HWI-EAS443:3:87:728:1548#0/1
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^``aaaa`^W`]R]a`a_^V]]__ab`_]a`]]_`^`b
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+HWI-EAS443:3:88:1631:268#0/1
XaY[GY`_`_Y¥¥`b]a]ab_babZWZYWbaVbbb_V[`_b
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a¥`H__O¥_YVQaa`¥^aXLG_YT`_XOGXPY[_a`__¥[
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+HWI-EAS443:3:88:796:1322#0/1
aa_baaa`]a_^`a]a_aa````__`__a`a^X]_]`a
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+HWI-EAS443:3:89:1207:1059#0/1
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@HWI-EAS443:3:89:1214:1897#0/1
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+HWI-EAS443:3:89:1214:1897#0/1
`a`a[`aFD[U_VYaa`X`^[X^[_SY_a``T`^^^`a^
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+HWI-EAS443:3:89:130:1623#0/1
aaaababaa]aaaa`¥Q¥]_a`[VZ]`_``¥[^VYZPUX
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+HWI-EAS443:3:89:1404:2023#0/1
V`bbb`b`H¥_Wbabb`]abaaaZYVbXF_ZTbGS]VL_]`
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+HWI-EAS443:3:89:1468:1842#0/1
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@HWI-EAS443:3:89:250:1834#0/1
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+HWI-EAS443:3:89:250:1834#0/1
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CCTCGATATCGAAACAGCCACTCTTGGTGGGAAACAAATC
+HWI-EAS443:3:89:776:308#0/1
abaa_aab_ab`aaaaba_a¥_¥`]¥P¥a`[V_^a_¥ZR
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+HWI-EAS443:3:89:857:435#0/1
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+HWI-EAS443:3:89:881:1815#0/1
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@HWI-EAS443:3:89:937:1809#0/1
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aaa`ab_bVL`aaba`a^aaaa^`_`a^]a[___a^`_`a
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+HWI-EAS443:3:8:1553:1051#0/1
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+HWI-EAS443:3:8:288:232#0/1
a_bbabbab]aba`ababaaa]a_baa_aaa]``_ab_aY
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+HWI-EAS443:3:8:574:265#0/1
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+HWI-EAS443:3:8:85:1019#0/1
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+HWI-EAS443:3:90:1345:591#0/1
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+HWI-EAS443:3:90:1545:839#0/1
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@HWI-EAS443:3:90:338:76#0/1
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+HWI-EAS443:3:90:338:76#0/1
aa`aaaa`aaaa_aa`aa`a]`_W`_`_a`X`^a`Z`_]_]
@HWI-EAS443:3:90:452:700#0/1
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``Z]]`aWa^][Wa^W¥`[^aX[^_aXa_[^ZYFY``¥Q
@HWI-EAS443:3:91:1447:686#0/1
GCCGCATTTCTTCAATTAACCACCTTATTTCTAAAATTT
+HWI-EAS443:3:91:1447:686#0/1
a_]_]^_``_aaZ[X`¥`[P¥_^^a^]_a^W[TDR]^]W
@HWI-EAS443:3:91:253:398#0/1
GAATGGCAACACGGTTCGAGTCTCTGAAAATATACAGAGA
+HWI-EAS443:3:91:253:398#0/1
a``Z^VFW¥_VV]_Z^Z`VWNYV]¥SYUZZXZVUSPW[ZUZ
@HWI-EAS443:3:91:520:1916#0/1
CCGACTCGTGACATTTCTCGAGGGTCATGTCAGAAAGG
+HWI-EAS443:3:91:520:1916#0/1
abb^F[bb^0_aQZWab_¥aa^X__`___aa_a`[Z`_^`
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CACCTTGGCCTCGATATCGAAACAGCCACTCTTGGTGGG
+HWI-EAS443:3:91:668:89#0/1
Vb_^_bb[P_Ra¥^`¥a_``a`a`ab`S`¥¥[YR^bT[_Z
@HWI-EAS443:3:91:882:925#0/1
GAGAAACTGTGATGAGAATGGGAGAGCTTCACTACCTCCA
+HWI-EAS443:3:91:882:925#0/1
a`_L`_Y`_U`Q`_]_W][_]`OFVY``]U^¥^XX]XY
@HWI-EAS443:3:91:900:503#0/1
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+HWI-EAS443:3:91:900:503#0/1
¥_b`¥WQ¥_ab`¥_¥ZZ_V_`bWTW]XT_[T[D^b¥U_
@HWI-EAS443:3:92:1007:750#0/1
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+HWI-EAS443:3:92:1007:750#0/1
][ZS]b`aa`^]Y^]U¥X¥`][`a_U]b]a[`^_^_[__
@HWI-EAS443:3:92:1438:708#0/1
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+HWI-EAS443:3:92:1438:708#0/1
]¥bZXT^`baa`aab[S¥` `abZLN]aa¥G`a`X]W^_
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+HWI-EAS443:3:92:1569:992#0/1
abI_aa^]Za^]`FF^_a__aTSRYXW_baa]^`a_U`a¥
@HWI-EAS443:3:92:639:729#0/1
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+HWI-EAS443:3:92:639:729#0/1
aaZaab^^^bbaaa`aaaaP_a^]`][b`L]¥¥RaY_`¥
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+HWI-EAS443:3:93:1430:593#0/1
]O[WDY][`[_UOG_[_a_VNZNV^`_a]]MT]P¥WPZ^B
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+HWI-EAS443:3:93:1535:1112#0/1
`^WZ[QZ`N_K]a^`RX^]`^Z^WZ`_Q_Z[_HDRV¥B
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+HWI-EAS443:3:93:658:1068#0/1
_US]Y]ab_bWP¥]baa¥bbaUaUFL_a_]UY`]J[QNXQ
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+HWI-EAS443:3:94:335:469#0/1
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CCTCTTTCAAGATCCATTCCACGATTTGTTTCCCACCAAG
+HWI-EAS443:3:94:337:1058#0/1
a^aabb`]WXba__aaa_]`Ya]aaaa`^^a`_^^_¥
@HWI-EAS443:3:94:97:1247#0/1
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+HWI-EAS443:3:94:97:1247#0/1
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@HWI-EAS443:3:95:1425:1923#0/1
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+HWI-EAS443:3:95:1425:1923#0/1
N]Yaa¥a_a`Pb`b`bbaN]NIaababY^Uaa`b`a`RJW
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+HWI-EAS443:3:95:166:492#0/1
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+HWI-EAS443:3:95:290:1027#0/1
aaabaa`_b`abaa`ab`aaa`aabaaa`aa__a[`_^S
@HWI-EAS443:3:95:390:1604#0/1
GCCGCATTTCTTCAATTAACCACCTTATTTTCATCAAATTT
+HWI-EAS443:3:95:390:1604#0/1
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+HWI-EAS443:3:95:406:1790#0/1
^¥a[¥YDNWSa]]bb[W^`UVY`_baaaZ]UO`aaYXV]]
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S_^__`X^abb]R¥baZGP_¥¥_XU_0^abZ`XX^¥YVa[
@HWI-EAS443:3:96:1252:1066#0/1
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+HWI-EAS443:3:96:1252:1066#0/1
]aLb`a`bba_`_^V`LaaVTbVaaaa^abaGYI` `aUa
@HWI-EAS443:3:96:149:685#0/1
GGAGAACTGTGACGAGAATGGGAGACCTTCACTACCTCC
+HWI-EAS443:3:96:149:685#0/1
` `X[[]`U`a^[^X`^aXYa_¥TYPMMWURZ^MSUZRBB
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+HWI-EAS443:3:96:410:1829#0/1
a_` `bb]aa`aaaa^`aaQ`]]a_XGYXXX]YQYT^BB
@HWI-EAS443:3:96:447:787#0/1
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+HWI-EAS443:3:96:447:787#0/1
aa]aaaaa`aaa__a`a^`^____]a_aa_^]_aa`^` ` ` _
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+HWI-EAS443:3:97:1119:1541#0/1
`]X_a_a`Ta__`Yaaa_`a__a[TZ^XF¥QV^RQWWUJa
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+HWI-EAS443:3:97:1164:1325#0/1
`b`]bYb^DV[]aa`_a^b`¥¥^[[__a_`aa]¥WZH^]Y
@HWI-EAS443:3:97:1331:1348#0/1
GCCGCATTTATTCAATTAACCACCTTATTTCCCTCAAATTT
+HWI-EAS443:3:97:1331:1348#0/1
][K¥YS]aUF]Y[¥a__Z`YaaTM`_Raaa[Ga_WT]_S[
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+HWI-EAS443:3:97:1470:1273#0/1
]b`ZXaa`aa`QRa_Z`_PZHQ¥`_[X]aQYJZMXQXW[
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@HWI-EAS443:3:97:759:364#0/1
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+HWI-EAS443:3:97:759:364#0/1
a]W`¥^TU[_`bb^abb`J]]bbb`a`b_ba^b_b__aa_
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a_TUVNL__PVL[QZP¥Y¥SBBBBBBBBBBBBBBBBBBB
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+HWI-EAS443:3:98:1186:733#0/1
aV¥a^[a^¥[`] `aZ`TFR][__^V]_W]_Y]]]Z]ZV]
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+HWI-EAS443:3:98:1656:314#0/1
aba`ZYaVbb_babbaaXb`¥a^ab_a^Pb`___W]W]`W
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+HWI-EAS443:3:98:216:1610#0/1
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@HWI-EAS443:3:98:599:1969#0/1
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+HWI-EAS443:3:98:599:1969#0/1
TZaW_^`_]ONP¥`_b`]X_¥[^`WNYWP[_]`^HDMZaU
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+HWI-EAS443:3:99:1324:1325#0/1
Y^b_]ZaV`_X_Z^_bbbWZ^b_]b``NG_P]bPS__aW^
@HWI-EAS443:3:99:1667:129#0/1
CCGCATTTCTTCAATTAACAACCTTATTTCTCAAATTC
+HWI-EAS443:3:99:1667:129#0/1
`aa`K]a_a^V`a`abaaaKba`Vb^bab[a^IRU]a`b_
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AGCCACTCTTGGTGGGAAACAAATCGTGGAATGGATCTTG
+HWI-EAS443:3:99:219:860#0/1
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@HWI-EAS443:3:99:519:1811#0/1
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+HWI-EAS443:3:99:519:1811#0/1
aaXb_aa`ba`_]a`ab`_Yaa_a_aaY_¥¥`^_I^`_
@HWI-EAS443:3:99:57:272#0/1
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+HWI-EAS443:3:99:57:272#0/1
Z`_¥a`YJ^XS_Xa`RQUS_a¥TPW_]_T_Taaa`]ZJWB

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+HWI-EAS443:3:99:803:1090#0/1
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+HWI-EAS443:3:9:1225:1994#0/1
aa`_^a_]a^]¥_Wa_Y_``a_]U`X__X__N_^N^]BB
@HWI-EAS443:3:9:1348:640#0/1
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+HWI-EAS443:3:9:1348:640#0/1
a^ZaaY`K]aab^^RN]]a`_a¥^]]W__Ya^a¥^Z^Y_]`
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@HWI-EAS443:3:9:1619:143#0/1
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+HWI-EAS443:3:9:1619:143#0/1
ab_SS]b`b^a_S_baabS[FTY``]BBBBBBBBBBBBBB
@HWI-EAS443:3:9:1669:187#0/1
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+HWI-EAS443:3:9:1669:187#0/1
a_YYN_]XaV_aY_OGUa_RVRMKGY]GXXVXWVXVBBBB
@HWI-EAS443:3:9:1713:1098#0/1
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+HWI-EAS443:3:9:1713:1098#0/1
¥a[`[¥_T_aa^Y_`K[aa_bYX_¥GTY^]Xa]_TF¥U_a
@HWI-EAS443:3:9:1782:485#0/1
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+HWI-EAS443:3:9:1782:485#0/1
a¥]XNZ^VPUXQX]]^Xa_TT[X^ZH[G¥_W_TUU]WWBB
@HWI-EAS443:3:9:208:1100#0/1
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+HWI-EAS443:3:9:208:1100#0/1
abaXZW]aaa_]ZP_]`SW[X[^_^^¥_][¥¥_W`Z_¥_
@HWI-EAS443:3:9:513:1173#0/1
GCCGCATTTCTTCAATTAATCACCTTATTTCTCAAATTT
+HWI-EAS443:3:9:513:1173#0/1
abbba^baaababaaabaabaaaaaaaa`_aaaaaaaa`
@HWI-EAS443:3:10:659:653#0/1
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+HWI-EAS443:3:10:659:653#0/1
]¥PW_ZTZW_¥UZ¥^QWZTR¥^a`S]¥YOZ¥¥¥Z^]GNa
@HWI-EAS443:3:11:1759:831#0/1
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+HWI-EAS443:3:11:1759:831#0/1
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+HWI-EAS443:3:11:364:161#0/1
Q_W`^[_R¥XXVH^U_OYM_SS^KUTMJO]¥_TO¥BBB
@HWI-EAS443:3:15:203:138#0/1
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+HWI-EAS443:3:15:203:138#0/1
a_N[_¥`a`b¥aYPD^^^b][`[^[aaa`_a[YaPX¥_
@HWI-EAS443:3:1:827:1928#0/1
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+HWI-EAS443:3:1:827:1928#0/1
aaa`a`aa^a`aa_a_`^````a]XX_`]¥LQ`UZXB BBB
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+HWI-EAS443:3:20:1137:1635#0/1
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GCTGCATTTCTTCAATTAACCACCTTATTTCTCAAATTT
+HWI-EAS443:3:21:1642:1199#0/1
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+HWI-EAS443:3:22:1071:1476#0/1
]_H^RU^baaaaaVUOUZ^SYP¥VaYSTX^aUWX]ZVNZY
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+HWI-EAS443:3:23:1720:808#0/1
abba`_bb[bbb`_aZ`a^U`a_¥`_`HP`a^^[¥_`G_S
@HWI-EAS443:3:23:586:1827#0/1
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+HWI-EAS443:3:23:586:1827#0/1
`RDQXb`aabaa¥^`¥_`Wa[`]_aa_aXY[¥XX¥a^][
@HWI-EAS443:3:24:1291:1569#0/1
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+HWI-EAS443:3:24:1291:1569#0/1
U_[W__a[___Z`M`VO¥K[U]USbb_`a[QZHXYb_GH[a
@HWI-EAS443:3:25:1131:685#0/1
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+HWI-EAS443:3:25:1131:685#0/1
_aaa¥¥]b^[Zb_a¥a^^a^`a[FY`_U]Z[X`XZQ¥a`a
@HWI-EAS443:3:26:354:2031#0/1
AAATAAGCTGAAACGAGAAAGCTTTATCTCTTGTTCNAC
+HWI-EAS443:3:26:354:2031#0/1
aa`a^aaa`[]ba_[a[¥`_¥Y__ZXa`a`]Q^_U¥WDY]
@HWI-EAS443:3:28:343:1376#0/1
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+HWI-EAS443:3:28:343:1376#0/1
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[]_IYa_Y_TZ`aV`aaa^a^VY`bTWV`¥F¥`_NDXa
@HWI-EAS443:3:30:1584:910#0/1
GCACGCATTTCTTCAATTAACCACCTTATTTCCCTCAAATT
+HWI-EAS443:3:30:1584:910#0/1
_Z_U`U^WYN`NPP^X`Z_UOM]a`a]^_a^SQT_^
@HWI-EAS443:3:31:1514:863#0/1
CGCTTGGAGAACTGTGATGAGAATGGGAGACCTTCAATA
+HWI-EAS443:3:31:1514:863#0/1
¥___aaaa¥a`_¥]`Z_a_¥V¥^_aabaY^]TL^`U[DYT
@HWI-EAS443:3:32:65:285#0/1
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+HWI-EAS443:3:32:65:285#0/1
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@HWI-EAS443:3:34:1022:498#0/1
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+HWI-EAS443:3:34:1022:498#0/1
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+HWI-EAS443:3:36:1134:1101#0/1
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GAGATTCGCTTGGAGAACTGTGATGAGAATGGGAGAGCT
+HWI-EAS443:3:38:1593:1789#0/1
a`][_`a`a_]_]__`_X_^V_^X`_X¥TNVWXX]NJPN
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+HWI-EAS443:3:40:226:1404#0/1
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+HWI-EAS443:3:42:949:850#0/1
Y]a_Z`[V_^a`aaa_bbbbbbaaa`a`^a`^`_]`a_ba_
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+HWI-EAS443:3:44:802:772#0/1
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@HWI-EAS443:3:46:1250:1891#0/1
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+HWI-EAS443:3:46:1250:1891#0/1
aWOH]VT_]WZ_[S¥[XTaX]OVX[_YNJPDR]_¥ZGSV
@HWI-EAS443:3:46:205:212#0/1
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+HWI-EAS443:3:46:205:212#0/1
aaabaab[``a[aaaba`aab]ba`a_aaaW_aa````_`
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+HWI-EAS443:3:47:1293:1424#0/1
`b_S_aaa`baba_a[a`ba]ab_¥[_X`abaaaa`````
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aaaa_aaba_aaaa`a_a`[_`¥a)`aa`_¥__`_VDU^
@HWI-EAS443:3:4:391:959#0/1
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+HWI-EAS443:3:50:1057:528#0/1
a^D^bbbbbabaaabbaababa`aaaa_ba`a_a`a[_`
@HWI-EAS443:3:51:1178:1793#0/1
ATGACCCAATCCATTGTCTGCAAATCGCTTGGCGATATGC
+HWI-EAS443:3:51:1178:1793#0/1
_aP_YVabaa¥[[_¥_T__a_aaaa[¥^````[Z]^VZLV^
@HWI-EAS443:3:54:1015:1857#0/1
AACAAATCGTGAATGGATCTTGAAAGAGGAATCCAGAGC
+HWI-EAS443:3:54:1015:1857#0/1
`a_aaaaaa]a_aaa_a^_]_```_`¥__^_^ZV`^]]X
@HWI-EAS443:3:57:755:835#0/1
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+HWI-EAS443:3:57:755:835#0/1
abb_bbbbbbbbbbbbabbaabbb`b¥bb¥`bab_aaaa
@HWI-EAS443:3:61:1101:17#0/1
GCGGGGACAGAAATTTGAGGAAATAAGGTGGTTAATTGAA
+HWI-EAS443:3:61:1101:17#0/1
a_a`aaTV_a^^]__`X`YPX_¥Y`_X__VWWTWVVPV
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+HWI-EAS443:3:61:484:448#0/1
abbabbbbbbbbabbbabb¥Yabaaabbbbaaabbbbaa
@HWI-EAS443:3:61:983:1848#0/1
GGCGGCACAGATTGAAAGCGACAGAGAATAGTTTCGAAGA
+HWI-EAS443:3:61:983:1848#0/1
U]W¥YUYIVVQVZVSZ_Y]ZOUVBBBBBBBBBBBBBB
@HWI-EAS443:3:65:1288:616#0/1
GGNGTTGCCTCTTCCTTTTAAGGACTTTTGATCTCGGCGG
+HWI-EAS443:3:65:1288:616#0/1
`[DWaa_babbbbaaabbaaaaa`[baaabaaa`aa_a_
@HWI-EAS443:3:65:236:964#0/1
CGGTGGGAAACAAATCGTGAATGGATCTTGAAAGAGGAA
+HWI-EAS443:3:65:236:964#0/1
aaa¥__`a`aaa^__a`]^`^`__a_X]V_^^_]¥^VVZZ

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+HWI-EAS443:3:68:576:1834#0/1
]HT`¥Ya]b]0[bb^_Y0_`^`^baa^^_a[^TVYRJYZ
@HWI-EAS443:3:70:20:338#0/1
CACTTGGGACAGAAATTTGAGGAAATAAGGTGGTTAATTG
+HWI-EAS443:3:70:20:338#0/1
a`NY^¥[[_`a`aY``aaba]aa[_aY]a^WQa_]__^`_`Q
@HWI-EAS443:3:73:617:840#0/1
GTNGCTTTCAATCTGTGCCGATTTCTTCAATTAACCACC
+HWI-EAS443:3:73:617:840#0/1
aTD[aaaab```aaaXaaaa_]aaa`a`a__a`aa_[^``
@HWI-EAS443:3:74:309:738#0/1
AGCATCAAGGTCTCTAATCGGTTAAAGATTACTGAAGT
+HWI-EAS443:3:74:309:738#0/1
aa``XY`TYXN__^`¥GY]XX[Y]ZX[[aXMDWX¥[¥__P
@HWI-EAS443:3:79:590:470#0/1
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+HWI-EAS443:3:79:590:470#0/1
a`bbaaaababaaaaba`ab``Za__a^[^`¥Y`a__^T
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+HWI-EAS443:3:81:1361:916#0/1
a[M]L¥YMOW]VX_¥TVT_WT¥X^[YS[NZTDQ¥_^ZYZX
@HWI-EAS443:3:81:1716:186#0/1
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+HWI-EAS443:3:81:1716:186#0/1
_`Z¥`¥¥^¥[KY]a]ba¥__P_SZ`^^bXa[TS^`XUDS¥
@HWI-EAS443:3:81:807:405#0/1
ACCGCCTCTTCTTTTAAGGACTTTTGATCTCGGCGGAGC
+HWI-EAS443:3:81:807:405#0/1
a`^`¥a`_`_¥¥_aaa_¥_Z[R_a__^^]`Z_¥_W_SSW
@HWI-EAS443:3:82:1374:1583#0/1
AGGCTGTTTCGATATCGAGGCCAAGGGTGTTCCTTTTC
+HWI-EAS443:3:82:1374:1583#0/1
__bbbaabaS`TS_a`a`SaR^``b¥LWab[a]aZ`YFX
@HWI-EAS443:3:82:379:469#0/1
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+HWI-EAS443:3:82:379:469#0/1
``aba_aaaaa`_aa[a]aU^^aa``aaa]a_``a_`a`
@HWI-EAS443:3:83:125:1142#0/1
CGCCGCTTTCAATCTGTGCCGATTTCTTCAATTAACCAC
+HWI-EAS443:3:83:125:1142#0/1
a]FZ¥]]_¥a__[]OZW_^__`¥^]W]]XUZ_YOYX__Z
@HWI-EAS443:3:8:1556:637#0/1
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+HWI-EAS443:3:8:1556:637#0/1
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+HWI-EAS443:3:8:546:498#0/1
a`]Wa]a`a^`_]`a_a_aa^[`a`]`Ya`a_^___a[^^
@HWI-EAS443:3:90:1564:789#0/1
TTGGAGAACTGTGATGAGAATGGGAGACCTTCACTAACT
+HWI-EAS443:3:90:1564:789#0/1
][`_Tba¥X0^`XK_b]abRV¥aa`ZbVG^``]a^a0FQY
@HWI-EAS443:3:90:1603:278#0/1
GANAATGGGAGACCTTCACTACCTCCAGAGCAGAAATGAA
+HWI-EAS443:3:90:1603:278#0/1
aXDWaaaaaaaa[_Z_`^a`_^[ZT]Za_`U`aY][_a^^
@HWI-EAS443:3:90:382:1982#0/1
CGGGACACTTAGAATGACAATTGCATCTGTACCTACTTCG
+HWI-EAS443:3:90:382:1982#0/1
`^`a`aaaaab`aa`aaaa__aa__`]`^^`a__^_]^^]
@HWI-EAS443:3:93:911:399#0/1
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+HWI-EAS443:3:93:911:399#0/1
aaaa`a`ba_aaTaaaaW_`X]a_`aYa¥`a]_]__W_a
@HWI-EAS443:3:95:297:745#0/1
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+HWI-EAS443:3:95:297:745#0/1
a`X^¥aaaT_]_]a`Z`a^a^^ZZ[]`^^^]aZ`]]][`
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+HWI-EAS443:3:96:1208:1731#0/1
bb]YXWRD[¥aa`^YTX[WTQX¥SGW_XKW_TFWPG`S
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+HWI-EAS443:3:96:1690:1729#0/1
a_ZV[aR`a]a^`b¥US]Y__aX`SWW_[N¥L¥^MMPGWB
@HWI-EAS443:3:97:555:990#0/1
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+HWI-EAS443:3:97:555:990#0/1
a`Ya_aaXb_aaaa`aaa`_a__^_a^aY^`]___X^`
@HWI-EAS443:3:98:317:611#0/1
CACGGCTTTCCTGAGGAGGGAGCAATAGTTGGAGAAAT
+HWI-EAS443:3:98:317:611#0/1
aaaVbab`_a^`_a¥¥a`_aaa_``Y_]aR_a___]`Y]
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+HWI-EAS443:3:98:566:1833#0/1
a¥FWbbabab_a_[]b[aa^a]bb_`aa]``a`aa_aGa`
@HWI-EAS443:3:99:1374:94#0/1
ATGAGAATGGGAGACCTTCACTACCTCCAGAGCAGAAGTG
+HWI-EAS443:3:99:1374:94#0/1
abba^X¥bbab_b^[Zaa_a_aaW_a]```]aT_a¥¥^T_
@HWI-EAS443:3:9:1219:975#0/1
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+HWI-EAS443:3:9:1219:975#0/1
Z`J`ba`aa]aaa`a]baa`aa_`b`Wabaa_`Xba¥_a^

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+HWI-EAS443:3:9:1545:885#0/1
abba`_a_a]baa]aaa___a_a]``UaaUaV]^_XDXa
@HWI-EAS443:3:9:80:426#0/1
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+HWI-EAS443:3:9:80:426#0/1
abbbbaaabbbbabaaa]aba_aaa`^aa^aYaabbaa`
@HWI-EAS443:3:100:1410:885#0/1
CCGCATTTCTTCAATTAACCACCTTATTTNCTCAAATTC
+HWI-EAS443:3:100:1410:885#0/1
a_`_bbba_bbaaabbaa^^a__b`abaZD¥b^a``aa`B
@HWI-EAS443:3:10:1287:1353#0/1
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+HWI-EAS443:3:10:1287:1353#0/1
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@HWI-EAS443:3:10:1749:951#0/1
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+HWI-EAS443:3:10:1749:951#0/1
`a¥D[_ba¥babb^a]`ab^¥Y`^ZZa`_]_]TN[RY__
@HWI-EAS443:3:13:281:445#0/1
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+HWI-EAS443:3:13:281:445#0/1
abbY¥`aaba_V]a^]UZ¥Yb][^[_V[X[ZFJDZY¥
@HWI-EAS443:3:15:670:1218#0/1
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+HWI-EAS443:3:15:670:1218#0/1
aababa_a`a`baaaab`a_a[D¥aa_a`aaaa_````_
@HWI-EAS443:3:16:343:829#0/1
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+HWI-EAS443:3:16:343:829#0/1
a`a^^bbb_`bbaaaaaabaaaa]b^D]bab`¥]^a^b`
@HWI-EAS443:3:16:695:668#0/1
TGCCGNATTTCTTCAATTAACCACCTTATTTCTCAAATT
+HWI-EAS443:3:16:695:668#0/1
`_]^[DWaaaaba`baa^T`a_b`aa_a`aa_a]___a_
@HWI-EAS443:3:19:1421:1383#0/1
GGTTAATTGAAGAAATGCGGCACAGATNGAAAGCGACAGA
+HWI-EAS443:3:19:1421:1383#0/1
`ZM[ZSaX^VSW]Zaa__`a`^`^`]YDUS¥QZXaYL¥`_
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+HWI-EAS443:3:19:1782:684#0/1
abbbbaab^XDX``[_a`aQ`aa]aaI_Z`_UTVN`_NYY
@HWI-EAS443:3:19:702:1469#0/1
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+HWI-EAS443:3:19:702:1469#0/1
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+HWI-EAS443:3:21:1738:1307#0/1
a]]YX_YYa_[DV¥R¥Ya[NZVRK]V]Y[XGPY]_^WYZU
@HWI-EAS443:3:21:849:1638#0/1
GGCACAGATTGAAAGCGACAGAGAATAGTTTNGAACAAAT
+HWI-EAS443:3:21:849:1638#0/1
a_aaabaaaaa]_¥`a___a[a``^T_XDX¥a[`aa_
@HWI-EAS443:3:23:781:1079#0/1
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+HWI-EAS443:3:23:781:1079#0/1
abaaaaaaaaaba`b`abaa`a_`aaaaa_aa_a¥DY_a
@HWI-EAS443:3:25:856:633#0/1
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+HWI-EAS443:3:25:856:633#0/1
aa_aaaaaa^aaa_`aa___^ZDT`a`a``_Y``]`¥_`^`
@HWI-EAS443:3:26:1441:846#0/1
ATCGCACGCAAAGAGGNCCTATTATCTTTTGCCTAGGCAT
+HWI-EAS443:3:26:1441:846#0/1
aaababaaa`aa^`¥YDZZa]a`aa```a_a_^a_`aW]`
@HWI-EAS443:3:26:173:1649#0/1
GCCGCATTTCTTCAANTTAACCACCTTATTTCTCAAATTT
+HWI-EAS443:3:26:173:1649#0/1
X`^_`^`ab¥bZ¥]DTa¥aab`^`aaa^Mb^LXa¥T`[ZF
@HWI-EAS443:3:27:1255:556#0/1
AGAAACTGTGATGAGAATGGGAGACCNTCACTACCTCCAG
+HWI-EAS443:3:27:1255:556#0/1
aaaaa_bb`[^b`_a¥a_baa¥`^`^DY`b^a`____aR^`
@HWI-EAS443:3:27:323:90#0/1
ATGAGAATGGNAGACCTTCACTACCTCCAGAGCAGAAATG
+HWI-EAS443:3:27:323:90#0/1
aabaa_Yaa[DNU`a`a````_`_RMZ]_]`__U]aW¥^`__
@HWI-EAS443:3:28:1543:519#0/1
GTTTCCTTTGGCATATCCGCAAGGATTTGCAGACAATGG
+HWI-EAS443:3:28:1543:519#0/1
a`aa_`aaaa^Z]a_`]a_^ZVDX___^`Y^_ZU^^^]U
@HWI-EAS443:3:29:1431:1161#0/1
CTGCAAATCGCTTGCGGATATGCCAAAGGNAACAGTCTAC
+HWI-EAS443:3:29:1431:1161#0/1
aa¥_bbbab`ba^aababa_^^XWa`aYDR`]a`OWY`Z
@HWI-EAS443:3:29:926:1055#0/1
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+HWI-EAS443:3:29:926:1055#0/1
a`_babbbb`baaababaa`a`YD^aaba`aa`_a`a_a`
@HWI-EAS443:3:30:409:894#0/1
TCTGCTGNAGGTAGTGAAGGTCTCCATTCTCATCACA
+HWI-EAS443:3:30:409:894#0/1
abaa`aba[DZa`]Z_U^_a^¥N]R__`NY`_^`_VYTU¥
@HWI-EAS443:3:32:1186:676#0/1
AGAAACTGTGATNAGAATGGGAGACCTTCACTACCTCCAG
+HWI-EAS443:3:32:1186:676#0/1
abaaaabb`a^^DX`^`a`aa_a___``^_V``X_^a[_`

@HWI-EAS443:3:32:1310:1554#0/1
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+HWI-EAS443:3:32:1310:1554#0/1
aa`a_a`L^Z¥a`_[U`aa]aWU¥___`XYODKXU``]Z
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CACAGATTGAAAGCGACAGAGAATAGTTTCGAANAAATAA
+HWI-EAS443:3:33:1174:1465#0/1
_V`bb`Y`bb¥WWaUY_aSa`bba`¥a`aVbaSDV`a¥bb
@HWI-EAS443:3:33:310:1341#0/1
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+HWI-EAS443:3:33:310:1341#0/1
aaYD[ab`_aaaa_U_a`]Sa`ZZ__P_____R^YU^V¥Q
@HWI-EAS443:3:33:313:1313#0/1
GAGAATGGGAGACCTTCACTACCTCCAGAGCNGAAATGAA
+HWI-EAS443:3:33:313:1313#0/1
a¥OV^a`[`__aa`__baa_X__a`a``aaTDW`[`````Q
@HWI-EAS443:3:34:1653:661#0/1
TGAGAATGNGAGACCTTCACTACCTCCAGAGCAGAAATGA
+HWI-EAS443:3:34:1653:661#0/1
aba`aaa¥D]`ba_aaaa_aa_^`]__a^_RX_X]V^]Y
@HWI-EAS443:3:34:303:609#0/1
ATCAAGGNATGGGGCATCACCCAATCCATTGTCTGCAAAT
+HWI-EAS443:3:34:303:609#0/1
abbbbb¥D[`]_a`baa`_`aaX]`_a_a`^W`^^`R^^
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GCCGCATTTCNTCAATTAACCACCTTATTTCTCAAATTT
+HWI-EAS443:3:36:1276:1148#0/1
`^bbbbbab[D^baaba]b`aaa`aabaab^a_a_U_``
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+HWI-EAS443:3:37:1572:603#0/1
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GAGCAATTGGNACAGAAATTTGAGGAAATAAGGTGGTTAA
+HWI-EAS443:3:38:1314:1408#0/1
`a`P`]a¥HJDXP[`^YX]NUaSRPYF`_VP]WFJX^OXS
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TGGNCTCCAACACCATGTCAAGCTTTCAGGTAGACTGTTT
+HWI-EAS443:3:42:1152:370#0/1
abYDZababbaabbbb`abaaaabaabaUaba__a`a_
@HWI-EAS443:3:42:1340:677#0/1
GCCGCATTTCTTCAATTAACCACCTTATTTCTCAAATTT
+HWI-EAS443:3:42:1340:677#0/1
`_^`^^Y^¥]Z^Xaa_Z__R[V_KVT¥`]`PDZ_``¥`^^
@HWI-EAS443:3:43:1073:1514#0/1
GCCGCATNTCTTCAATTAACCACCTTATTTCTCAAATTT
+HWI-EAS443:3:43:1073:1514#0/1
^^`Z^ZDZabb`^`aaaa`Wa_¥aaa_¥¥__^`a`aaa
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+HWI-EAS443:3:43:1737:1359#0/1
¥`a`^a`a`_bab¥]T]]`¥aa`a`a`aaPDXW]^____^
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+HWI-EAS443:3:43:442:1456#0/1
`aabW[P`aa^S]00YQTO¥UWaa[]]^OUDHIZX]R[Q]
@HWI-EAS443:3:44:84:1373#0/1
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+HWI-EAS443:3:44:84:1373#0/1
a[a`V[_¥`¥0_Y^^]HS__Vva``^ [HDZ^`_aZLXT
@HWI-EAS443:3:44:870:1171#0/1
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+HWI-EAS443:3:44:870:1171#0/1
aabaaaaabb`baSDZV^`_]LRVUZ`W`V`[[¥RXY^
@HWI-EAS443:3:46:1009:1318#0/1
GATTGCTTGGAGAACTGTNATGAGAATGGGAGACCTTC
+HWI-EAS443:3:46:1009:1318#0/1
aaaaaaaaa`a`_a`aaTDZ_`¥_____`_]^[V^]^W
@HWI-EAS443:3:48:924:759#0/1
GTTCGAAACNATTCTCTGTCGCTTTCAATCTGTGCCGCAT
+HWI-EAS443:3:48:924:759#0/1
a`a`^`_`ODZaa___aaX_`]^a_X¥P^][VY^[Z]ZSX
@HWI-EAS443:3:49:1555:1553#0/1
CTGTGCCGCATTTCTTCAATTAACCNCCTTATTTCCCTCAA
+HWI-EAS443:3:49:1555:1553#0/1
a]aaWWWaN_aaa`ba_¥]_S_a]JDW]aa`aaaZZbW[`
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+HWI-EAS443:3:49:1621:194#0/1
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@HWI-EAS443:3:49:201:1336#0/1
GAAACTGTGATGAGAATGGNGACCTTCACTACCTCCAGA
+HWI-EAS443:3:49:201:1336#0/1
]¥[_bbabbbbb`^b`b`b`b`YD¥baba]ab]baX^b]Ubbba
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+HWI-EAS443:3:50:1363:2012#0/1
aaa_aaaba_a_aa_a`__b¥DWa__a`[_____N_^UW[
@HWI-EAS443:3:52:1453:1800#0/1
GCCGCATTTCTTCAATTAACCACCTTATTTCNTCAAATTT
+HWI-EAS443:3:52:1453:1800#0/1
```ba^SZ\_\_ba¥]¥a¥^`\_\_ZRa\_¥a^`LD[aa^Za\_\_  
@HWI-EAS443:3:52:297:613#0/1  
AGAACTGTGATGAGANTGGGAGACCTTCACTACCTCCAG  
+HWI-EAS443:3:52:297:613#0/1  
aa^`a[]^R`\_a\_bSD¥baaaa^¥¥X\_`[a\_\_W\_\_`]Ua  
@HWI-EAS443:3:53:1165:1090#0/1  
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+HWI-EAS443:3:53:1165:1090#0/1  
a`¥abbbbbbbaabbbba^baaababbabbbb`]D]bbbb`

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[`Za\_aab`\_`a`\_b[DZbaa`b`b\_bbabZPZ\_^b\_a[H  
@HWI-EAS443:3:53:627:275#0/1  
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+HWI-EAS443:3:53:627:275#0/1  
aaaa`bb]b\_aaab]`aab\_`a^]`a`WDP``Y¥\_`¥`aY  
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+HWI-EAS443:3:56:1228:647#0/1  
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+HWI-EAS443:3:56:581:667#0/1  
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+HWI-EAS443:3:57:1370:600#0/1  
aaa\_`b`aaaa`aab¥\_`aa```a`\_b`]`\_VD¥a\_\_\_R  
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+HWI-EAS443:3:57:775:861#0/1  
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+HWI-EAS443:3:57:935:1730#0/1  
a\_X\_b]]`b]a^Pb]babaa^`^¥DU\_\_`aa`aa[\_\_\_b  
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+HWI-EAS443:3:58:613:1523#0/1  
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@HWI-EAS443:3:59:72:544#0/1  
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+HWI-EAS443:3:59:72:544#0/1  
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+HWI-EAS443:3:5:1082:120#0/1  
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+HWI-EAS443:3:5:554:1969#0/1  
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+HWI-EAS443:3:60:1326:1058#0/1  
``^\_W\_````]\_\_X]Y^YWMDU[]\_V^¥V]WY[VZQSSY  
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+HWI-EAS443:3:65:1400:667#0/1  
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a^`\_bbba^ab`bbbbba[WD[\_bbbbbb\_^aY`aababa  
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+HWI-EAS443:3:67:1683:312#0/1  
a^^^aab¥abaaa]Y\_ZDZ`aaaa^aa^¥`Z`a\_^\_^`]R  
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+HWI-EAS443:3:68:1680:533#0/1  
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+HWI-EAS443:3:69:1123:805#0/1  
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ZOR\_[U]a\_X\_]\_¥Z\_WU\_LDZYTUYNYO[^`^QZJV]J  
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+HWI-EAS443:3:6:527:1764#0/1  
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+HWI-EAS443:3:70:1043:1231#0/1  
¥\_\_aZY]\_[`\_\_aU¥D[aa[XX^a\_\_ZY\_UZ[`¥[OLV¥V  
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Yabb]D]a¥a]a\_Z¥baYSYab[`aaab]aaab`aSzb^]  
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abbabbaababbabUbaaaaaa\_a^a\_^`\_`aRDX\_a^`^  
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+HWI-EAS443:3:71:259:1997#0/1  
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@HWI-EAS443:3:72:54:629#0/1  
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+HWI-EAS443:3:72:54:629#0/1  
aa]aaa\_aa`a\_`\_`\_`ZDZ\_\_\_\_Y\_^\_\_\_\_^a¥\_]\_^\_Z  
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+HWI-EAS443:3:73:1323:1571#0/1  
a]a]a`XW¥]]]^\_W]aaXWV\_`\_]`^`X\_\_\_\_^XDYZ^XX]  
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+HWI-EAS443:3:73:344:1570#0/1  
aaa`\_]aYa^X\_[a\_]S\_\_a\_a`^Y\_^`^VODV\_Q[]^Y  
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+HWI-EAS443:3:74:1655:239#0/1  
¥HT]^`^`[\_]a¥^`][[^]a\_\_]ZVDXT\_aY[TSTTZ[XX  
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+HWI-EAS443:3:77:1014:1998#0/1  
X`b\_]Y\_ULD[``¥aa^a¥aS]X¥ba`\_`b`Z`a\_ab`aYb  
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+HWI-EAS443:3:79:670:770#0/1  
ab^D[aaaa\_Z[^Ya]ba`^\_^\_T\_\_ZX^`\_a\_\_^a`  
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+HWI-EAS443:3:80:242:1023#0/1  
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\_a]`¥Zaa\_¥a^aaa\_aa[¥^a¥XDX\_\_\_\_]XV\_`V^\_[^^  
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a\_]``^aaa^^`\_X\_a¥ZY¥X\_\_aaa\_aa\_\_a`WDW`X¥  
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+HWI-EAS443:3:82:1237:1098#0/1  
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+HWI-EAS443:3:86:921:1422#0/1  
aab\_Za]^ZY^\_a`aa¥DUZ```\_`\_`^SW¥\_¥`Y\_X]¥Y  
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+HWI-EAS443:3:87:1148:1191#0/1  
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+HWI-EAS443:3:88:560:1325#0/1  
`Z]``a^`aaaaXaa``abaaYaIDV^`\_aZa\_]\_a\_`]a

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+HWI-EAS443:3:8:1369:734#0/1  
a]\_a\_b]a`a]`\_`SRRX\_U\_U^¥VR^V]]XHDDZWONY^  
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+HWI-EAS443:3:8:795:620#0/1  
````\_aaa``\_YaaaZa¥\_^^\_] [N[\_a\_^U^¥DDY[][\_  
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+HWI-EAS443:3:90:73:1580#0/1
`^[^aaa`aa[V]^V`a]]¥DZ[^_¥SUZHV]Z][¥Y[_`
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aa_b]_[a¥D[aX`^a`P^Y_a[_aa`aa[UO_[]`_a`
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[_b_Z¥bbbRD]`_b¥b`abbbaababbabb_bab_baba
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+HWI-EAS443:3:93:1201:613#0/1
a`_a_aaa[D^aa`_aaa`Wa`aaaa`baa`_a`_`^baa
@HWI-EAS443:3:93:507:580#0/1
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+HWI-EAS443:3:93:507:580#0/1
a_]aa]`¥Vaaab`W`_aaaT`^X_aa]``____]UDX_a
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+HWI-EAS443:3:96:287:525#0/1
a^aa`aY`_a`aZ`ZV^_AY^Z`[VVY]]^_V[YKDMXY]
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+HWI-EAS443:3:96:428:1327#0/1
abaa`^^baba^aaba]DZUaaa]abaa¥aaa``^`a¥
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+HWI-EAS443:3:97:161:1353#0/1
_U]]_YDX^`aQV^^^a^X¥^Y_¥__Z[^^^Z_WZZ_YZW
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+HWI-EAS443:3:99:1010:681#0/1
\$#\$`_a_Paabb`baabbba\$#b`aab`\$]aaaVXDV]_a_
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+HWI-EAS443:3:99:1312:316#0/1
a`N__aaa`aa[T_Yaa]a\$Y\$#]YDQ]^^]U__U]^_]
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aa_bbbbbbaabSbbb^D^`b`^bbabbb`_b_ba_bbba
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+HWI-EAS443:3:99:954:1634#0/1
^b`aaababbabbaaa^DYb`ab`_`aabbba__a`a`aa`
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+HWI-EAS443:3:9:1084:320#0/1
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+HWI-EAS443:3:11:483:802#0/1
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+HWI-EAS443:3:11:641:1363#0/1
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+HWI-EAS443:3:11:979:2005#0/1
a``_aaaaaa_aa_a_ab^`a_a`_a_^]]ZZ^X^[^_Z_
@HWI-EAS443:3:12:671:1564#0/1
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+HWI-EAS443:3:12:671:1564#0/1
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+HWI-EAS443:3:13:593:839#0/1
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@HWI-EAS443:3:14:1586:112#0/1
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+HWI-EAS443:3:15:1511:719#0/1
^aa]^`^`_S_]ab_]`^a]a]^Z``VV]abaa¥`a_aa`_
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+HWI-EAS443:3:15:428:499#0/1
aa_a`X¥_a`^a_]a`___^`^^`^^^]Z]_^_[]VDX
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@HWI-EAS443:3:15:902:139#0/1
TGCCGCATTTCTCAATTAACCACCTTATTTCTCAA
+HWI-EAS443:3:15:902:139#0/1
S`ba`¥[a`^V_^a[X¥Z_baa^Z`^^`a]a`[^ba`a_a
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^_baXa`[Ybbba^]^`ab_bbab^a]aXXab_]`_[KF
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+HWI-EAS443:3:17:655:580#0/1
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+HWI-EAS443:3:18:1229:1697#0/1
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+HWI-EAS443:3:18:1524:1125#0/1
W¥SWW`¥_`aT[]_^TY_OYX]ZY^aY¥¥T[GUYXGZUD[
@HWI-EAS443:3:1:733:646#0/1
GAGAACTGTGATGAGAATGGGAGACCTTCACTACCTCAA
+HWI-EAS443:3:1:733:646#0/1
a_aSLYZ[¥MYZ¥XTTQTV]XTR¥NLN]YV^Y^BBBBBBB
@HWI-EAS443:3:20:370:1153#0/1
TNAGAATGGGAGACCTTCACTACCTCCAGAGCAGAAATGA
+HWI-EAS443:3:20:370:1153#0/1
[DUa`_abaa]babaa`aa`aaa`aaa`aaaaa__```_
@HWI-EAS443:3:21:529:659#0/1
GATGAGAATGGGAGACCTTCACTACCTCCAGAGCAGAAGT

+HWI-EAS443:3:21:529:659#0/1
a[`a]a__¥^[__¥a_]__`^]¥^¥Y]^_W_¥¥_WU^W
@HWI-EAS443:3:22:1693:1491#0/1
CAGCCGCATTTCTTCAATTAACCACCTTATTTCTCAAAT
+HWI-EAS443:3:22:1693:1491#0/1
ab`_Q_]``a_ZZaX[]a`Za^`_[^]^`_^¥U`^_Z^]
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CAGCCGCATTTCTTCAATTAACCACCTTATTTCTCAAAT
+HWI-EAS443:3:22:936:896#0/1
]`a^]a`aZ^b^``]`a]_P[a`a`aaa]X``]V_a
@HWI-EAS443:3:25:781:1669#0/1
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+HWI-EAS443:3:25:781:1669#0/1
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@HWI-EAS443:3:26:506:410#0/1
GCCGCTTTCAATCTGTGCCGCATTTCTTCAATTAACCACC
+HWI-EAS443:3:26:506:410#0/1
XHT_^Z]]X¥^b_NLNR¥^^UP_Y¥aa`¥IR¥][W_W_Q_
@HWI-EAS443:3:26:623:922#0/1
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+HWI-EAS443:3:26:623:922#0/1
aaabaababa`aaaaaaaaaaaa```aab`aa`aaa^`a
@HWI-EAS443:3:28:1299:1943#0/1
GCCGCTTTCAATCTGTGCCGCATTTCTTCAATTAACCACC
+HWI-EAS443:3:28:1299:1943#0/1
[F[`aWX]^`_¥]_¥[XX]¥[R`[¥[____^Z]YYW_^_^WN
@HWI-EAS443:3:28:599:2037#0/1
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+HWI-EAS443:3:28:599:2037#0/1
_ab_b`aaaaba`aaaa`aa`aX`_a`^a_`____`_^_^
@HWI-EAS443:3:2:1479:357#0/1
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+HWI-EAS443:3:2:1479:357#0/1
]Y¥_WZ¥]WLO[Z[aa_U]Z^[^]VWOY]^_Z^VWYY^ZOMR
@HWI-EAS443:3:30:187:636#0/1
CAACACCCTTGGCCTCGATATCGAAACAGCCACTCTTGGC
+HWI-EAS443:3:30:187:636#0/1
]__R__ab_¥]¥`[^`a_WX¥^_Z_Z¥V^¥VVMZ^TUXBB
@HWI-EAS443:3:31:1198:1878#0/1
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+HWI-EAS443:3:31:1198:1878#0/1
^bbbbbbbb`bbbbbbbbb`bbbb`aababaa``aa_a
@HWI-EAS443:3:31:1773:352#0/1
GTCGCTTTCAATCTGTGCCGCATTTCTTCAATTAACCANC
+HWI-EAS443:3:31:1773:352#0/1
a_`b`aaa`aaa]_¥J``Xb^_aa_Wa`____aa`_Y[ZDM
@HWI-EAS443:3:34:909:526#0/1
ACGGGCTTTCACTGAGGAGGGAGCAATAGTTGGAGAAATT
+HWI-EAS443:3:34:909:526#0/1
UY_SaQV¥¥]_YQTR¥aX^_]NZ^S¥X]U^]UX_b]]`Y]

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+HWI-EAS443:3:35:588:1609#0/1
abZWYYV`XS]ONV`U_YXY_^Y][`VM`ZBBBBBBBBBB
@HWI-EAS443:3:36:1580:1853#0/1
GAGAACTGTGATGAGAATGGGAGACCTTCACTACCTCAA
+HWI-EAS443:3:36:1580:1853#0/1
U¥`a`aZ_`a`[^_P[abb__bT`GZPaY[HPa`XRUF_
@HWI-EAS443:3:37:1480:1610#0/1
GACGCATTCTTCAATTAACCACCTTATTTCTCAAATTT
+HWI-EAS443:3:37:1480:1610#0/1
____UZ^Yb`J]``Yaa^¥IWaa^`a]baVbW[`_¥P`a`
@HWI-EAS443:3:3:808:457#0/1
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+HWI-EAS443:3:3:808:457#0/1
abb`_XWabb]_b`[Y^b]baZa``]a`a`_bba`QXNHH
@HWI-EAS443:3:40:96:950#0/1
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+HWI-EAS443:3:40:96:950#0/1
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@HWI-EAS443:3:42:538:576#0/1
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+HWI-EAS443:3:42:538:576#0/1
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@HWI-EAS443:3:43:106:1597#0/1
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+HWI-EAS443:3:43:106:1597#0/1
aaa`babbbbaaaaa_bbbbbbaaabbbbabbbaba`Z`b
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+HWI-EAS443:3:43:1331:1418#0/1
a`bbabbbbb_abbabaab`bbabab_aaaaa_b[aaaa
@HWI-EAS443:3:46:853:534#0/1
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+HWI-EAS443:3:46:853:534#0/1
aaa`_aa__baW^a__`X_a____¥_^_[[_a^¥¥¥_`^¥
@HWI-EAS443:3:49:675:1539#0/1
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+HWI-EAS443:3:49:675:1539#0/1
a`aaaaa`aab`a`aa`a_]_`YZ`]_`¥```_^^^]_^
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TGGCATTCTTCAATTAACCACCTTATTTCTCAAATTT
+HWI-EAS443:3:4:1185:737#0/1
¥bbbb`bbbbbaa]bb¥baba_abb`bbbb]babbbabb^
@HWI-EAS443:3:50:1665:1223#0/1
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+HWI-EAS443:3:50:1665:1223#0/1
aaa`a`a`Yab_aaa¥_a`_____Z`[]_^U`]`¥ZU`[]
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+HWI-EAS443:3:51:855:439#0/1
[D¥a]`^ab^a`aaZa`_aZaZ`^[Za_^^[`^[[^T¥¥
@HWI-EAS443:3:52:179:1095#0/1
TGCGGCACAGATTGAAAGCGACAGAGAATAGTTTCGAATA
+HWI-EAS443:3:52:179:1095#0/1
`WW``_aa_¥_¥^_a`___`_]P`_`^QWG^[W]SUHX
@HWI-EAS443:3:55:108:120#0/1
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+HWI-EAS443:3:55:108:120#0/1
`NZaY[a_^^`a__Zaa][WXTVZ__][_]^^_^]X^^^
@HWI-EAS443:3:55:1250:407#0/1
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+HWI-EAS443:3:55:1250:407#0/1
aI^SRYYZ]S]XL]]S[a__NZa_[G^aa]a`a__¥_`RG
@HWI-EAS443:3:56:466:1687#0/1
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+HWI-EAS443:3:56:466:1687#0/1
]YJ_a¥aa]]Y¥UZ_a`a[_U^aJOZ__[```Z¥JU__`_
@HWI-EAS443:3:56:993:1014#0/1
GTGCATTCTTCAATTAACCACCTTATTTCTCAAATTT
+HWI-EAS443:3:56:993:1014#0/1
a]aa_aaaaaa`a_aa`a__a_Yaa_aaa^^a^``_```
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CAACACCCTTGGCCTCGATATCGAAACAGCCACTCTTGGT
+HWI-EAS443:3:59:1082:1502#0/1
abb^ba_^[]NU___^bba]^W^ZX_a_VSQGS]]G]X¥Y
@HWI-EAS443:3:5:1371:744#0/1
GNATATTTTCAGAGACTCGAACCGTGTACCATTCCATTC
+HWI-EAS443:3:5:1371:744#0/1
WD^`[ab]a`aa`_aa¥¥T`Y^Y``Zaa¥__`]SQ[_^]
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+HWI-EAS443:3:66:1239:560#0/1
abaabaaaa¥a]a`aaaa`_a_]`^_baN`__a__`_T
@HWI-EAS443:3:67:879:575#0/1
CGGCCGATTCTTCAATTAACCACCTTATTTCTCAAAT
+HWI-EAS443:3:67:879:575#0/1
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@HWI-EAS443:3:71:1519:483#0/1
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+HWI-EAS443:3:71:1519:483#0/1
UD[^W]bb`P`X_`aYOZZW]aZT[]a[X`¥ZaaZRV5]¥
@HWI-EAS443:3:71:431:1135#0/1
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+HWI-EAS443:3:71:431:1135#0/1
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+HWI-EAS443:3:73:1372:547#0/1
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+HWI-EAS443:3:74:692:1002#0/1
_aaa]bbVa_b`bS]a`YVb^X^TaaZ[`a¥aZ`¥[_]^G
@HWI-EAS443:3:76:1211:26#0/1
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+HWI-EAS443:3:76:1211:26#0/1
ZGR]V_]`__aab¥NX`][aaZV]T]WJV]_0¥^BBBBBB
@HWI-EAS443:3:7:271:15#0/1
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+HWI-EAS443:3:7:271:15#0/1
a`]``aa_a]aY^[aaba_aa_LSY_`^`YLTy]^VW^`_
@HWI-EAS443:3:80:1308:148#0/1
GCCGCTTTCATCTGTGCCGATTTCTTCAATTAACCACC
+HWI-EAS443:3:80:1308:148#0/1
a_aaZaaa`a_aZ^W`a_X^Z]a`aY`^YZ_aa`_ZS`ZO
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+HWI-EAS443:3:80:1589:1673#0/1
aab_¥]bXb]]^a^` `J[][_]U_YG_]SH^a]G` `GG
@HWI-EAS443:3:82:1512:694#0/1
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+HWI-EAS443:3:82:1512:694#0/1
aa_bbaababa[baaa_aaa`a`a` `¥`_ [0]]_`]]]V
@HWI-EAS443:3:83:1303:1421#0/1
GCCGCTTTCATCTTCAATTAACCACCTTATTTCTCAAATNT
+HWI-EAS443:3:83:1303:1421#0/1
`__`^ [^aba`Y¥¥_a^^S]aa__`^__Y][P¥Ra_a¥D¥
@HWI-EAS443:3:85:1481:1259#0/1
CGGCCGCTTTCATCTTCAATTAACCACCTTATTTCTCAAAT
+HWI-EAS443:3:85:1481:1259#0/1
abab``Zabbbabb`abbbbaa````_ababbb`abaaabb
@HWI-EAS443:3:87:1568:1716#0/1
GAGAACTGTGATGAGAATGGGAGACCTTCACTACCTCTA
+HWI-EAS443:3:87:1568:1716#0/1
a__¥`_ [aaZaXa_]`^¥^¥]`Y_]XX_[W]V]]SNUQG]
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GTTGCCTCTTCTTTTAAGGACTTTTGATCTCGGCGGANC
+HWI-EAS443:3:87:41:1693#0/1
`L`__ [G]YT¥]_PXSq]`R_`^Z]RX^P]¥Z^ZYBBBBB
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GGGCCGCTTTCATCTTCAATTAACCACCTTATTTCTCAAAT
+HWI-EAS443:3:89:1052:1884#0/1
a```a``a_a]GYZb`_a]_aZVY`a`W¥`X[¥[aZ`_]a
@HWI-EAS443:3:8:1093:522#0/1
GTCGCTTTCATCTTCAATTAACCACCTTATTTCTCAAATTT
+HWI-EAS443:3:8:1093:522#0/1
^Y]YS]aaa`aa_a_a`aa^V¥XU````_`a_Z^`ST]^__`
@HWI-EAS443:3:8:1197:1392#0/1
GAAATTTGAGGAAATAAGGTGGTTAATTGAAGAAATGCAG

+HWI-EAS443:3:8:1197:1392#0/1
aa`a`bab_`^`T¥a[^_[]a]V_¥G]ZZ_`a`a[W]Z^B
@HWI-EAS443:3:90:1326:902#0/1
GTCGCATTTCTTCAATTAACCACCTTATTTCTCAAATTT
+HWI-EAS443:3:90:1326:902#0/1
_`aa_abbbaab`aa`aa_aa__aa`aa_Sa^__aa`
@HWI-EAS443:3:91:639:372#0/1
GTCGCATTTCTTCAATTAACCACCTTATTTCTCAAATTT
+HWI-EAS443:3:91:639:372#0/1
a¥_`][`__[_`^^Z`__S^[_^_`_^_VU]]^^]^
@HWI-EAS443:3:93:1680:417#0/1
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+HWI-EAS443:3:93:1680:417#0/1
ab`a^aZ^_bbaaa`bbbaaa]b`^baa_bb__a_¥IYb
@HWI-EAS443:3:93:62:1036#0/1
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+HWI-EAS443:3:93:62:1036#0/1
aaba]b`aaaaaaaa_a`_`Q`aa_a]^`__`^`_`^^]
@HWI-EAS443:3:95:277:760#0/1
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+HWI-EAS443:3:95:277:760#0/1
a_ba`ba`abbaa`^bababbbaabbabbabaab^`a_b
@HWI-EAS443:3:97:1540:404#0/1
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+HWI-EAS443:3:97:1540:404#0/1
J`^^`^¥Ua¥[`bb`Ua¥``bbbKab`ab`a_`VNbH`bb
@HWI-EAS443:3:97:292:789#0/1
CGGGAGGGGAGCAATAGTTGGAGAAATTTACCATTACCTT
+HWI-EAS443:3:97:292:789#0/1
abbaaaaaab`aaaba_aa^abaaaaaa_aa`aa`a_a`
@HWI-EAS443:3:98:222:419#0/1
GGGCCGCATTTCTTCAATTAACCACCTTATTTCTCAAAT
+HWI-EAS443:3:98:222:419#0/1
ab]a_b_^aaa`aaa][Va`¥_VWa`a`a`¥a`aaa`a^a
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GGGATGAGAATGGGAGACCTTCACTACCTCCAGAGCAGAA
+HWI-EAS443:3:9:1186:1727#0/1
¥PbM`^WbaaU^_]aV^_XQXQT[^WQQWY_Z`Z_¥[N
@HWI-EAS443:3:9:462:1138#0/1
GAATGGGAGACCTTCACTACCTCCAGAGCAGAAATGAAGA
+HWI-EAS443:3:9:462:1138#0/1
T`]]_aaa`aa`aaaaZ^a`a`aZ`a__a``[YS_
@HWI-EAS443:3:9:56:395#0/1
CAGCCGCATTTCTTCAATTAACCACCTTATTTCTCAAAT
+HWI-EAS443:3:9:56:395#0/1
aXP]`^^`^]¥Z_aaaXaaaaVa_[¥`_`a_]`a_ZSSZ
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GTGGGAAACAAATCGTGGAATGGATCTTAAAAGAGGAATC
+HWI-EAS443:3:100:169:1168#0/1
aVXY_XY`U`_aa_]baXT¥_^LO__`Y]ZnQ[atrBBB

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+HWI-EAS443:3:100:211:1927#0/1
_`bVbb`bbbab_bbabbbbab_bbbbb_bTTa`abaaa
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+HWI-EAS443:3:100:355:1052#0/1
a^bb^a_¥_^]H`W¥VWYZ`^aYa¥X]^a`_XSVBB
@HWI-EAS443:3:100:769:1174#0/1
GTGGGAAACAAATCGTGAATGGATCTTGAAAGAGGAATC
+HWI-EAS443:3:100:769:1174#0/1
a^_]Z``Z_¥]_VaY_]V^_^U[Z`_^]U^`_ZR[B
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+HWI-EAS443:3:100:789:1434#0/1
abaaaaaaaa`aaa_____`W``_`¥^`]]`_`^¥_`^¥B
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+HWI-EAS443:3:10:1464:251#0/1
K`[aaaaGab¥aab_`¥`aa^aXZaWZbOUbYRMDXHX_R
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+HWI-EAS443:3:10:1606:191#0/1
`bXbbSIZ`V^bbab_[bKXSVa_`Y`¥^S^P¥XGUGP]W
@HWI-EAS443:3:10:445:1792#0/1
AGCGTACCTTTCTGACATGACCCTCGAGGAAATGTCACG
+HWI-EAS443:3:10:445:1792#0/1
Z]_^^`aVaa_`a__`[_[M^V`[^[___YX_`_`_UU_NW
@HWI-EAS443:3:10:592:1434#0/1
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+HWI-EAS443:3:10:592:1434#0/1
ababYbbYa^]AT`a[T`]aV^Y_a_a¥[Y_Z`____[¥X^
@HWI-EAS443:3:11:1421:55#0/1
AGCTTGGAGAACTGTGATGAGAATGGGAGACCTTCACTA
+HWI-EAS443:3:11:1421:55#0/1
aba`aaa¥b^]_a_`WaWZ[Sa]W_Z_ZF[]QSVPPBBBB
@HWI-EAS443:3:11:348:1148#0/1
AGCGGCACAGATTGAAAGCGACAGAGAATAGTTTCGAACA
+HWI-EAS443:3:11:348:1148#0/1
^[baX¥]a^_WX_^^¥`aa^a¥[^aaa`^P]]aaY`_]W_
@HWI-EAS443:3:11:638:1565#0/1
CATCAAGGTCTCTAATCGGTTAAAGATTACACTGAAGTTC
+HWI-EAS443:3:11:638:1565#0/1
aa^]b`]Va]a_a^^`_]U`_`_`_]aU^OZ_^]XZYZ
@HWI-EAS443:3:12:41:1482#0/1
CGCCGCATTTCTTCAATTAACCACCTTATTTCTCAAATT
+HWI-EAS443:3:12:41:1482#0/1
aaab_a`a`aaaa_aa`aa[OW^Ua_¥`^_][T``_aZ__
@HWI-EAS443:3:12:657:252#0/1
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@HWI-EAS443:3:19:514:2046#0/1
NCCGCATTTCTTCAATTAACCACCTTATTTCTCAAATTT
+HWI-EAS443:3:19:514:2046#0/1
DNZXXXZZZZXZZZZZZZZZZXZXZZZXVZXZZZX
@HWI-EAS443:3:19:575:984#0/1
CGCCGCATTTCTTCAATTAACCACCTTATTTCTCAAATT
+HWI-EAS443:3:19:575:984#0/1
a`aaab_aaa`a`_a_aaaa^a``_`_`a``__a^^__a_
@HWI-EAS443:3:19:695:1515#0/1
GTGGGAAACAAATCGTGGAATGGATCTTGAAAGAGGAATC
+HWI-EAS443:3:19:695:1515#0/1
¥`¥Y^`_Wa`ab_^[\`ab`U^aa]a`X`_aZa]^a``
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GGTCGCTTCAATCTGTGCCGATTTCTTCAATTAACCAC
+HWI-EAS443:3:19:977:853#0/1
aa[_`aa^Z`a`X^[Y_]_a]__a_Y^`[_[_``^VP¥¥
@HWI-EAS443:3:1:1376:543#0/1
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+HWI-EAS443:3:1:1376:543#0/1
Taa`abb^[baYb][bbbbU^_bbab]aaabS_F_bba
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+HWI-EAS443:3:1:839:791#0/1
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+HWI-EAS443:3:1:962:1456#0/1
^^`a`^`abT__b]]`a`X`_]aa_S^[^aXa_BBBBB
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+HWI-EAS443:3:20:1522:1744#0/1
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+HWI-EAS443:3:21:502:810#0/1
J]`L^¥¥_Ya`^bab¥¥b`^aU_¥UWV[UaaZ^ba`b_R_
@HWI-EAS443:3:21:801:213#0/1
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aY^^^^`__`^Y_X^^]Y]_^XYX_Y]]VY]^VXYXW
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+HWI-EAS443:3:23:1117:909#0/1
a¥aaaabVabbaa`bb_¥aababaaJbb_bab`bbba_
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U^_abbbbb_aba`^aaa`]aaaUaVRW^VQT`_ZNa_[b
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aX^`_aaaaaaaa_a]a_a`^_^`UT`_a`a^[^____^Y
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aba`SI]bbb¥bbY¥Y¥Z`b_bbaaabbb^b]bb_bbaJ
@HWI-EAS443:3:26:432:1310#0/1
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+HWI-EAS443:3:26:432:1310#0/1
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+HWI-EAS443:3:26:818:1122#0/1
`Xa`_]aa_QWZ¥¥a`aZX¥P_a`U^`X^^SO[_`QX¥^
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+HWI-EAS443:3:27:1078:595#0/1
aba`aaaaba`a_aa]baa_^]_a``^_a__`a_]_^]
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+HWI-EAS443:3:27:1139:1149#0/1
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aa_]aabb`aba___aa`a``^`aaaaaa¥_a___]`
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a^aaa¥]a_`a`_[]aa`_^a^]XP_`_^____`^_]]
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+HWI-EAS443:3:28:1422:1894#0/1
^P^aa[ba`_a`ZJ¥¥_V_a_]a¥U¥_`^`¥]``_YZZ
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+HWI-EAS443:3:28:693:858#0/1
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aaaabaZab`¥`a___aaa`__`_a^_a_]a_`_^_]
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¥ZK^]Z[W_WJZZYRTRVNP¥__^_W[PW[^NOZ_] ^ZBB
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+HWI-EAS443:3:29:892:1994#0/1
a`a_a`[aaaaaa`baa]`a`_`_a_UZ__`aa_a^]aa[
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¥¥aXTOZTQX[a__Z^X]ZPTQX_0`^]_VH[a[[TS]Y
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a^a`^X]^a`^^^]`Ta`_aRT[^_¥[___Z[WTZ]_ZX^^
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+HWI-EAS443:3:30:1017:1459#0/1
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a[_aaa`a`_a`_`a]aa]aVZ`^0V__¥_X]``X^YUY
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+HWI-EAS443:3:30:407:447#0/1
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+HWI-EAS443:3:30:47:1154#0/1
a¥]^`^^a_^X`aa^a¥¥_`Z_Z_¥V0[VX`¥TXZW^
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a`a`aaa`^`a`aa`¥[aa_a_]`_`[^`^]X]XY[_
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+HWI-EAS443:3:31:1023:1882#0/1
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[`bbYa`^b`^_baa_Z¥abaaaaa^^^[\`YV]^`^¥X_¥]
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+HWI-EAS443:3:32:1397:887#0/1
aYa`__`_^`a`aYa__^_a^YYW__^Y^Y]Y`^^^]X
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a^aaa[]` `]_a^R__V¥^__RW¥__UYS¥XTYN[R^
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+HWI-EAS443:3:33:123:1524#0/1
aaa¥^b`_`a`aa_a__a_[Y[_^aV¥__Z^VV_^Z_¥[W

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+HWI-EAS443:3:33:1489:505#0/1
`Z`_^_¥I¥U_b]^]Q`Z]VS[PPXG¥^a]PRN^]`XWXX
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+HWI-EAS443:3:33:516:1699#0/1
`SW`_`aaaaba_aa`_]_``_``[^¥^a^]_`^]_]_]_]X
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+HWI-EAS443:3:34:1297:1532#0/1
^XZR_SUY_ORLXa]`aa__XaaY_ST[]X^NH[YZU^XB
@HWI-EAS443:3:34:261:1393#0/1
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+HWI-EAS443:3:34:261:1393#0/1
aZI`a`a_ZWSZa^_]`^ZZZaaa_Z__[X]aZ__¥^^[V
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+HWI-EAS443:3:34:534:1766#0/1
G^aa^abb`a^Zabbbbbb_a`S`ba¥`b]bb^[¥`_`_`
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+HWI-EAS443:3:34:550:1339#0/1
aab``bbbb`bbbb¥bb`bbbaab`bbabbaa¥V¥a
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+HWI-EAS443:3:35:1152:581#0/1
abbWb`Uaaaaaa^aa__```[aa]_]¥_aa_`^]_]_]`_`_`
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+HWI-EAS443:3:35:1368:311#0/1
abb`bb^a`baa_[_abaaa_aa_`a^aZ`a`a`_]`[Y
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+HWI-EAS443:3:36:1248:499#0/1
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+HWI-EAS443:3:36:1461:672#0/1
a`aa_bbaa`aaa`b]ba_aa`_``a¥¥_[GXX`^^a_`
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+HWI-EAS443:3:36:192:298#0/1
a`aXa_aaaaa`abaa_a`aaa`_a`Y`aa_____Ya]`]H
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+HWI-EAS443:3:36:672:1870#0/1
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+HWI-EAS443:3:38:1792:660#0/1
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+HWI-EAS443:3:38:24:1331#0/1
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+HWI-EAS443:3:39:1206:802#0/1
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_aa¥¥]Wa````aa__¥S__Z¥]T[^Y`]^Y^Za``0QY^
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+HWI-EAS443:3:39:926:991#0/1
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+HWI-EAS443:3:3:1095:204#0/1
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+HWI-EAS443:3:40:415:623#0/1
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]aY^]^[^]_^]_Z_ZWZR__RZZW^URZXZ]ZO^VGR
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+HWI-EAS443:3:42:1084:1866#0/1
abb__a^b]_Xaaa]`b[^`YT[aI_aa_a¥HP`_`T[aa
@HWI-EAS443:3:42:132:709#0/1
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+HWI-EAS443:3:42:132:709#0/1
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+HWI-EAS443:3:42:904:1467#0/1
a`UZ¥^a`aaaYT``¥^a_¥a¥`^`_aa¥a_^^U¥^^_X]
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+HWI-EAS443:3:43:678:464#0/1
V¥_¥_b[¥_V_b_^b0bb`aa_ba_a[bV_a_aba^Zabb
@HWI-EAS443:3:44:1675:654#0/1
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+HWI-EAS443:3:44:1675:654#0/1
aY_aYXaaa[a____`a[M`_Ya¥Waa]a`aYQ`Y__^a^^
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+HWI-EAS443:3:44:887:1781#0/1
_]ZVXZ^]Y^_W]¥SZZ_Y¥____VQ^WW]NTO]WQ_X]^G
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+HWI-EAS443:3:46:531:570#0/1
a_baa``b_aaaa_`_aaaaaba`__a````¥[_a`^_¥Y
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+HWI-EAS443:3:46:671:937#0/1
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+HWI-EAS443:3:46:970:1032#0/1
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a_``_`aW_a`^^X_R[``_]ZUZ__]]VXTXW¥YVQ
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+HWI-EAS443:3:48:654:67#0/1
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aa_^_`^aaaab```a¥_¥a^a`UXaP__aX^]Z^Y_`RG
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+HWI-EAS443:3:52:871:1724#0/1
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`[[Y]a[YUS]__V^NW`_^_¥^Z^_[U^_YVTQQXS[W
@HWI-EAS443:3:54:473:831#0/1
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+HWI-EAS443:3:54:473:831#0/1
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@HWI-EAS443:3:55:1327:73#0/1
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+HWI-EAS443:3:55:1327:73#0/1
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]_a^_ba_Yaaa`ZZP_b_`ba[]_]aa`]__a[_a¥]]T
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a`bbb`_a_aa`a`a]aa__aa`Q^Z`a`XX¥aYa_]XW
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+HWI-EAS443:3:56:494:2042#0/1
aa_a]aaa`_`a_] [Va__R^`_`_T_]__^^]_W¥]ZS
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ZJa_H¥ZZ_[X`bb¥WW[R¥aaa¥Z^Y_[ZTR¥_[YaWZ_
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+HWI-EAS443:3:57:1698:1574#0/1
aa``aaaaa¥aaa_aa`a^X_`a`a]a`_a_a_`_YQ^]
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a_WN_aR]QXXR`Wa]a[Q`_`aU¥PV]`_[U^]X`]]]S
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aV``aa_]¥¥`_`a_^][__a_]X_`][ZWV^_¥]SU]
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+HWI-EAS443:3:57:969:1118#0/1
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+HWI-EAS443:3:58:1361:1365#0/1
_Va]^¥Z[aa`aa`]G_XW[^]Z[_N]a_aa`T]_aa^_Y
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]Xa_ab`aZ]Z_Y_WaaaZ]¥ZYV[¥`a_aaTW]¥^__
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+HWI-EAS443:3:58:147:187#0/1
a¥`a_a`aaa`_^[^`^`_`__^¥_^]¥¥TZ[^BBBBB
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+HWI-EAS443:3:59:1665:1625#0/1
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@HWI-EAS443:3:59:475:1229#0/1
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+HWI-EAS443:3:59:475:1229#0/1
a_Y_MS¥WS_Z^^[__R]ZWS]`aRHXaRZ[[]]]KTOPRD
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+HWI-EAS443:3:59:504:1067#0/1
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@HWI-EAS443:3:59:676:837#0/1
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+HWI-EAS443:3:61:289:308#0/1
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+HWI-EAS443:3:66:218:629#0/1
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+HWI-EAS443:3:67:1517:457#0/1
a^abaaaa_``a]a_a_____a`]^¥``^_]a`_]XX
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+HWI-EAS443:3:67:1527:1551#0/1
aa`WZV_] [TY[[F[a``[S¥``a^VU]Z``a`¥]OZR^R
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a^aaaa]aaaaaaaaaaaaa`__a^a`a^`a`_`a`
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+HWI-EAS443:3:68:678:1501#0/1
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+HWI-EAS443:3:68:957:1225#0/1
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`b^_abaab`aaaa`aaaaaX^a_a`a_aa_aaa_^[VY
@HWI-EAS443:3:69:202:128#0/1
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aaaa_a__aa``aaa_^^`_`_^^`_`_`X]__^_`Z`]^
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+HWI-EAS443:3:6:1592:283#0/1
a_K_b_`¥a¥ZVTXZ__[SZZQY`XX]_] []L[¥P^X^SB
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+HWI-EAS443:3:70:1793:1513#0/1
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a`a__[¥`b¥SSZbaV^^aa`````aa`aaaa_aa__a]_
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+HWI-EAS443:3:71:1472:777#0/1
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+HWI-EAS443:3:71:214:1761#0/1
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+HWI-EAS443:3:72:805:285#0/1
ab_a_baa``]`aaaaaa`aU_¥]_]aaa`aa]¥^_aa`_
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+HWI-EAS443:3:72:922:1228#0/1
a_`a_`a^a_`a^Z^^¥`^`_`¥Y`__^a`__`Z__`Y^_
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a`aaaaaaaaaaaaa`^^`^_aaaa`_a`^`]^a`_a
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+HWI-EAS443:3:73:526:104#0/1
¥Vab¥X]]]aZX^V`_`SU`_a¥X_]a¥a__¥VXa`_]WQ
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+HWI-EAS443:3:74:196:2047#0/1
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+HWI-EAS443:3:81:601:838#0/1
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+HWI-EAS443:3:81:603:49#0/1
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+HWI-EAS443:3:81:745:1572#0/1
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a`_a`_`_]aa`^a_a`]__`^`]W_¥Y^`_]_W¥Y^W
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+HWI-EAS443:3:84:451:523#0/1
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aaaa`aaa¥aaa`aa^^`a`a_aaa`^_a_`_`a_`¥`a^
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+HWI-EAS443:3:85:975:1075#0/1
aa`[aaa_X]]`aaaWaa`aaa]__Oa`_a`Yaa`_^^`]
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AGCCGCATTTCTTCAATTAACCACCTTATTTCTCAAATT
+HWI-EAS443:3:86:463:1938#0/1
a)`a`_`^_`_¥_aa^__a^]_][^^^]_^^W^^^__^Z
@HWI-EAS443:3:88:735:722#0/1
AGCCGCATTTCTTCAATTAACCACCTTATTTCTCAAATT
+HWI-EAS443:3:88:735:722#0/1
aaabbaabba`baaaaaa`aaa`baaaaa`_aaaaaa
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+HWI-EAS443:3:89:628:243#0/1
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+HWI-EAS443:3:8:257:85#0/1
aba¥ab_aa__aaXaa`_a__TQ]a[¥]¥IR`_[]^T]W

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+HWI-EAS443:3:8:434:515#0/1
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@HWI-EAS443:3:90:1010:1165#0/1
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+HWI-EAS443:3:90:1010:1165#0/1
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+HWI-EAS443:3:90:1338:934#0/1
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AGCGGCACAGATTGAAAGCGACAGAGAATAGTTTCGAACA
+HWI-EAS443:3:90:53:319#0/1
a^aaa^^a^`__`_^`__`_Z`_¥P¥Z^^XX^¥]O[VZ
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+HWI-EAS443:3:90:915:1453#0/1
aabba_bbabbaaaa`aa`aaa_a`aaaa__aaa_aa`Z
@HWI-EAS443:3:91:1322:280#0/1
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+HWI-EAS443:3:91:1322:280#0/1
Z]][[OVUUXLYZKTGY^FXa]XUWGY`_]XXaZRLYZZ¥
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+HWI-EAS443:3:91:269:2046#0/1
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@HWI-EAS443:3:91:515:1210#0/1
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+HWI-EAS443:3:91:515:1210#0/1
aaY¥`]bbMa]^_a`aH_Y^PU_XPDUZRZLOa[FUZ[FJ
@HWI-EAS443:3:92:916:598#0/1
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+HWI-EAS443:3:92:916:598#0/1
a`[ZO_ZaaWaaaa`a_a^S]`a^X_aa^^[__Y_¥W`_
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+HWI-EAS443:3:93:1152:1740#0/1
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@HWI-EAS443:3:93:1355:1340#0/1
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+HWI-EAS443:3:93:1355:1340#0/1
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@HWI-EAS443:3:93:1793:441#0/1
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+HWI-EAS443:3:93:1793:441#0/1
DMXY[[[YY[XY[Y[V[Y[Y[Y[[[YZU[[[[[YY[[[Z
@HWI-EAS443:3:94:1742:717#0/1
CGCCGCATTTCTTCAATTAACCACCTTATTTCTCAAATT
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a`Z¥aa`b^aaaaa]a`abaaaaa[a]`baa_`^^^`Y`
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YQNZ__UZ_[^¥¥YHS¥a_`_b`^`aP]X`^`JRSQ]W¥a¥
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+HWI-EAS443:3:94:284:682#0/1
aa_`aaaa¥a`^^`_`_a_]X_____^a^_]^^]Z_]T
@HWI-EAS443:3:94:690:1290#0/1
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+HWI-EAS443:3:94:690:1290#0/1
ab^aa`Y^aa_]^aaaaa^_]^^^¥]a¥a__a`a¥Z^aa]
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+HWI-EAS443:3:95:279:525#0/1
aabb`a_b`aa`_aba`a`aa_aaa¥b`a^_a_aa`aa
@HWI-EAS443:3:96:443:1106#0/1
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+HWI-EAS443:3:96:443:1106#0/1
a^aa^Xaaaa`_`^^`]`¥^a`_]_^____^]____`]_^]
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YWYP^^aWZW__ZQ¥b`¥ba]UY^TMW_`_RL¥_R]XaaB
@HWI-EAS443:3:97:435:1852#0/1
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+HWI-EAS443:3:97:435:1852#0/1
]b_QULTXU]P`aa]bT`¥[V`¥_¥`]_Qa¥Y_Z`a_][¥
@HWI-EAS443:3:97:540:764#0/1
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+HWI-EAS443:3:97:540:764#0/1
`N]]Y¥ZNNXVOUXYLVTU_V[XRV[_Z^PWP_R]_UPRT
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+HWI-EAS443:3:97:823:1634#0/1
aaab_P^aa^WaaSaaaYa`]Wa^Ra`aa^a[Sa_aa[a_
@HWI-EAS443:3:97:982:1119#0/1
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+HWI-EAS443:3:97:982:1119#0/1
ab_bbbbbba^aba`bbb`baaa`abaabba]VaUa_aba

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+HWI-EAS443:3:98:1169:1497#0/1
aabb[]b`bb`b_abbaa_a_ZRYb`b_`bY^^`bZZbb
@HWI-EAS443:3:9:1037:1042#0/1
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+HWI-EAS443:3:9:1037:1042#0/1
aZY`^a_`a^`bXa__^aaa]^Z`^a]^`__]^_]W^
@HWI-EAS443:3:9:202:89#0/1
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+HWI-EAS443:3:9:202:89#0/1
H_a`^Zba`aYb`X`babZbbb`b^`abRGW]baaT_`US
@HWI-EAS443:3:9:605:1816#0/1
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+HWI-EAS443:3:9:605:1816#0/1
ab^^aaabba`V`a`aa`_ba_a`a]aaZ__`_Y]_^]
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+HWI-EAS443:3:100:1018:1581#0/1
aa`a_aaSa`aab_a_a^a_aa^`_]a]aa^GaU^¥__
@HWI-EAS443:3:100:1068:944#0/1
GCCGCATTTCTTCAATTAACCACCTTATTTCTCAAATTT
+HWI-EAS443:3:100:1068:944#0/1
a_^_W_aa[Y`_[]`_`^ZRU^U¥a`^`__YS`^]]`_B
@HWI-EAS443:3:100:1092:628#0/1
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+HWI-EAS443:3:100:1092:628#0/1
aSa_a`^`_`_`W`U`]]Sa`]]V¥^OFQZX][Y^WZ_WB
@HWI-EAS443:3:100:1102:609#0/1
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+HWI-EAS443:3:100:1102:609#0/1
a`¥aY[VZaaU¥^]^¥a^]VZT¥U]¥UU^`ZXS¥^TW¥BB
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+HWI-EAS443:3:100:1115:628#0/1
abbbbbaa^b`¥bb`bbb[a_^aaabaa^bb_^_aa`aabB
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+HWI-EAS443:3:100:1186:223#0/1
a_YTZaa^_]_a[VRQ^[`¥[STRV]^`^_Q[]XPWPWY]B
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+HWI-EAS443:3:100:1225:631#0/1
`aababbb__babb^b`aaaba`aa_a_aa_a_a`aa¥a`
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+HWI-EAS443:3:100:125:123#0/1
aaba`aRaa`_`aaaaba`]a__a_]¥a_^a]VSUX^LYB
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 @HWI-EAS443:3:100:157:1031#0/1
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 +HWI-EAS443:3:100:157:1031#0/1
 aa^Ja`_bQa[``a``¥a¥^Z_]`_`_aX_XHU]]X_0^_
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 +HWI-EAS443:3:100:1655:906#0/1
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 +HWI-EAS443:3:100:1757:606#0/1
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 +HWI-EAS443:3:100:184:519#0/1
 a_`V[_a_¥``¥UaXXU__RUW¥]^^^QU[WWWUXVUBBB
 @HWI-EAS443:3:100:200:1071#0/1
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 +HWI-EAS443:3:100:200:1071#0/1
 `aa`a_aa`aa^`¥`¥`a_a^__]¥^Z]__0^`]H[VU_B
 @HWI-EAS443:3:100:257:604#0/1
 GCCGCATTTCTTCAATTAACCACCTTATTTCTCAAATTT
 +HWI-EAS443:3:100:257:604#0/1
 aaaa`_``_]XX^`_`_Z¥_ZZ_]`_`_NX^S_¥Z_]B
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 +HWI-EAS443:3:100:281:1785#0/1
 abbbbaabb`aaaa]aaa`b[aa^`_U``_¥_][aa`_aaa`
 @HWI-EAS443:3:100:348:1065#0/1
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 +HWI-EAS443:3:100:348:1065#0/1
 ^_aa`ba^aa`aaaa]ba`ab^¥a`_^aaaYa_aa`_`_`_
 @HWI-EAS443:3:100:407:1370#0/1
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 +HWI-EAS443:3:100:407:1370#0/1
 aba`_]`b`abaXaaba¥a`_]a^^_]Y[aY_[_XXW¥B
 @HWI-EAS443:3:100:429:1217#0/1
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 +HWI-EAS443:3:100:429:1217#0/1
 WF]b`X_Ua]a][VY``ba_^`aYa_b`b_aaab``]a`B
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 GATGAGAATGGGAGACCTTCACTACCTCCAGAGCAGAAAT
 +HWI-EAS443:3:100:473:607#0/1
 a__a]a^`aaa]_a]^_YY`^`VW]]W_^]]Y^`ZZ]^
 @HWI-EAS443:3:100:501:877#0/1
 GCCGCATTTCTTCAATTAACCACCTTATTTCTCAAATTT
 +HWI-EAS443:3:100:501:877#0/1
 aaZaa_a`]Q[]a__a_a_``SP_``]a^_UQ[^^^]]__

@HWI-EAS443:3:100:549:229#0/1
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+HWI-EAS443:3:100:549:229#0/1
`Za`````a`a`b]a^]_``_aa_a]__Z``X_W]_V_B
@HWI-EAS443:3:100:604:449#0/1
AGCAATAGTTGGAGAAATTTACCATTACCTTCTCTCCA
+HWI-EAS443:3:100:604:449#0/1
abaaabbb_abaababaaaa`_`aaaa^a`_a`_aZ^`
@HWI-EAS443:3:100:671:504#0/1
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+HWI-EAS443:3:100:671:504#0/1
a`Y[a`a`aab_``^`¥^aYa`¥Y^^a`_[a__`]¥_aB
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CTGTGATGAGAATGGGAGACCTTCACTACCTCCAGAGCAG
+HWI-EAS443:3:100:757:1142#0/1
`¥a_¥U_bY`U`Ua_a_bUbbbbbYZbaXT_R^b``b`_a
@HWI-EAS443:3:100:797:306#0/1
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+HWI-EAS443:3:100:797:306#0/1
^^^a`V`Zaa`[N]¥`aa_Z¥VK^VY¥Y¥`]^]^¥[B
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+HWI-EAS443:3:100:909:63#0/1
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+HWI-EAS443:3:100:923:1202#0/1
_NUT`]P_aP`_]NT`X^_WZ^`_`^`QJYZQ¥YW_WU_BB
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+HWI-EAS443:3:100:948:81#0/1
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+HWI-EAS443:3:10:1020:32#0/1
`b^ab`b`_b`a`_ab_ZXa_XY]YR]X_[[U[NY]^Z`0
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+HWI-EAS443:3:10:1030:296#0/1
a`aaa`_`aa_aa^_`aa`^^W_XW`_`a`^¥]_W_Z^`^
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+HWI-EAS443:3:10:103:690#0/1
abbababaaabab`a^abaaaaaa`_`_`_`^`a`_`_`^`^
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+HWI-EAS443:3:10:1042:1480#0/1
]b__X¥aa_aaaaVZaba`_`Y_a]]a`_`aa_aaa^`a`_`_`
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+HWI-EAS443:3:10:1096:622#0/1
abbbbbbbbbbbabbababbabbbbbbaaa__aa_b^aa
@HWI-EAS443:3:10:1100:1114#0/1
TGAGAATGGGAGACCTTCACTACCTCCAGAGCAGAAATGA
+HWI-EAS443:3:10:1100:1114#0/1
a_aa`_`aa`a`_`^`[_`_`a`^`X]`Y^Y`_`_`^`_]`^`^`^`
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+HWI-EAS443:3:10:110:1560#0/1
aaaa`aa_0a`a_a`_`_`XRW[¥]^`^`Y`_`_]`^`¥Y[`]`^`
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+HWI-EAS443:3:10:1130:1531#0/1
abbbbbbbbabbbabababb`ababbaba`^aa`aaa^]aa
@HWI-EAS443:3:10:1214:379#0/1
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+HWI-EAS443:3:10:1214:379#0/1
`_`¥b[bbZ¥Z`^V`YFYab`abaa]aa`_`a[JS`SRRR^V
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+HWI-EAS443:3:10:1218:470#0/1
aba`_`_`b__a`_`_`_`^`aYa`_`_`R[¥a[_`X]W]U_0^`_`
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+HWI-EAS443:3:10:1239:1987#0/1
aa^GXa¥aaaa^Wa_HO`_`_`^`aYNaOSVV`_`_`W]^`^`_`KRM¥
@HWI-EAS443:3:10:1247:1735#0/1
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+HWI-EAS443:3:10:1247:1735#0/1
`ba`aaabbbb__b_babaa_aaaaaba]Sba[aa`aX`Z
@HWI-EAS443:3:10:1279:2008#0/1
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+HWI-EAS443:3:10:1279:2008#0/1
`[U[b[ba`_`_`ab_]`_`_`a]_`a_aZYa]SMU`_`_`_`^`_`PF
@HWI-EAS443:3:10:1310:1174#0/1
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+HWI-EAS443:3:10:1310:1174#0/1
a_aa`aaaaa_a`_`_`_`^`_`_`aVa^]]_]`¥`X^`X[Y^`Y

@HWI-EAS443:3:10:1310:665#0/1
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+HWI-EAS443:3:10:1310:665#0/1
`¥]Ybaaab`a`^_^^aa`¥W]]^a¥`a`_]_]__^_
@HWI-EAS443:3:10:1312:971#0/1
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+HWI-EAS443:3:10:1312:971#0/1
aaa¥a`a_a^aYa`aZZ_b¥¥^bZab[[`]X)`a]QYaa`
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+HWI-EAS443:3:10:1329:1362#0/1
[aba_¥^`bbVV¥U_b`aIU_ba_]Wq]abb`aWaa^`a
@HWI-EAS443:3:10:1354:870#0/1
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abbab`bb`baba`a``abab_aa¥`aa¥a^__]V`]Y^_
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+HWI-EAS443:3:10:1371:379#0/1
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+HWI-EAS443:3:10:1391:139#0/1
a¥]^_^_ZXR[^WYNXSW_UXZWZZZXWZXWYSYVVSBB
@HWI-EAS443:3:10:1401:1834#0/1
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+HWI-EAS443:3:10:1401:1834#0/1
`_b¥Z_baabb_``_baaaaaaaaa_aaa[[__a¥`^Y`^
@HWI-EAS443:3:10:1439:352#0/1
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+HWI-EAS443:3:10:1439:352#0/1
aab`bbabaabaaa``baa_a_¥¥```_Ya_V¥_¥U[_Z`
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+HWI-EAS443:3:10:1564:246#0/1
a`a`_aa^baaa^a`[a_`_`Z`a^[aS`X[W_] [W_U_^
@HWI-EAS443:3:10:1647:1808#0/1
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+HWI-EAS443:3:10:1647:1808#0/1
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@HWI-EAS443:3:10:1692:1069#0/1
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+HWI-EAS443:3:10:1692:1069#0/1
]a¥DUNYUa`¥ZSUPV_¥UYPX_U^S]]XZTXXZXWZSZW
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+HWI-EAS443:3:10:177:1438#0/1
aa_a^[Y_a]aZ]_`Ua^T`V[_R_YZUUZ]]]¥NYZ]SO
@HWI-EAS443:3:10:204:603#0/1
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+HWI-EAS443:3:10:204:603#0/1
a¥_]]]M]Z][`]a_R_QVJWLSPPXX_NV^0JYZ^]VQX
@HWI-EAS443:3:10:211:629#0/1
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+HWI-EAS443:3:10:211:629#0/1
abbbbaabbbbababbbababaababbaba]`b`_aaa^_`
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+HWI-EAS443:3:10:227:1725#0/1
`aa`a_¥H¥NU_aa__aa_`__a^`_YQ_^¥W¥¥__¥____
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+HWI-EAS443:3:10:245:1486#0/1
`ba]a]_¥bTJaab_¥aab`^^`X`]`_a^Y_XK`SMXYP
@HWI-EAS443:3:10:264:549#0/1
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+HWI-EAS443:3:10:264:549#0/1
``a^a]`_a``]_`a^aa`[a`a_¥`_^Z`Z`[¥]Y^]
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+HWI-EAS443:3:10:288:1669#0/1
aaaa`_`baZZXN[aZM^R`[NZU]XQ_aY[Z^_ZL]JV¥
@HWI-EAS443:3:10:304:704#0/1
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+HWI-EAS443:3:10:304:704#0/1
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+HWI-EAS443:3:10:317:64#0/1
¥ab¥¥b`¥^b_babb]ba_a_]bba`ab`_a_a__a`a_a
@HWI-EAS443:3:10:439:1118#0/1
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+HWI-EAS443:3:10:439:1118#0/1
a```a_¥¥^__a`^_a_aa^_]WNY__¥X_aY¥¥`^```_
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+HWI-EAS443:3:10:480:1224#0/1
[]a`Z`_]a_bbaba]`baaa`V[a^¥_a__``aaa^````
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+HWI-EAS443:3:10:49:524#0/1
aaaaaaab^baaaaa_]aaba_a`_[^__`_^[[[_^_a
@HWI-EAS443:3:10:519:1421#0/1
TGCCGCATTTCTTCAATTAACCACCTTATTTCCCTCAAATT
+HWI-EAS443:3:10:519:1421#0/1
a``bb`_`aaaa```aaaaa_a``aaa`_a^^a_a_aa`

@HWI-EAS443:3:10:529:235#0/1
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+HWI-EAS443:3:10:529:235#0/1
aZVa¥_aaaaGY^R]`_Z^U^^UVXVXXVY[VV]WPPV]X
@HWI-EAS443:3:10:541:912#0/1
AGAAACTGTGATGAGAATGGGAGACCTTCACTACCTCCAG
+HWI-EAS443:3:10:541:912#0/1
aaa^aaaa¥aa`aaa__aa¥__`____^_aY_^]T]U]^
@HWI-EAS443:3:10:545:1358#0/1
CTGTTTCTTTGGCATATCCGCAAGCGATTTGCAGACAAT
+HWI-EAS443:3:10:545:1358#0/1
abbbbbbbbbbb`bbabbbbaaa`aa`aaa`a_aa`¥```
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AAACTGTGATGAGAATGGGAGACCTTCACTACCTCCAGAG
+HWI-EAS443:3:10:583:1349#0/1
aab`aa^aaa``````[_¥__^¥_____¥W¥_¥Y¥]^¥
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+HWI-EAS443:3:10:593:737#0/1
aaa`^aa`_`a_]_a_aWVZ^`_`__WU_[^¥^`^`
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+HWI-EAS443:3:10:599:1617#0/1
`_a¥R`¥XM`^^`_][[_V^^W_¥__`_Z`^¥_]^_`
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+HWI-EAS443:3:10:607:2022#0/1
aS_X_b¥¥`_aa]`aa`[U____^`^[F^]Y`Y^MY]
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+HWI-EAS443:3:10:612:147#0/1
aaaaaabUa¥¥¥_¥]_[Z¥WY^U¥__¥¥U]¥¥QZWMLM
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+HWI-EAS443:3:10:624:237#0/1
aa_Va^[IS_]a[[PY[¥]PW[]]]Y_^W^XIY¥S^Z^Y[
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+HWI-EAS443:3:10:63:1903#0/1
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@HWI-EAS443:3:10:707:1517#0/1
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`b_abbbb^¥bbaba^aaa^baabaaaabYaa_aa_]`a_
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+HWI-EAS443:3:10:736:302#0/1
^HWbb]a`b_bbb]SZbaabG_```a_a¥ZX``_^Z¥`ZV
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+HWI-EAS443:3:10:782:451#0/1
aab_bbaabbab[abb`aa`_aaa`a`_`_U__`__X_^¥a
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+HWI-EAS443:3:10:811:391#0/1
ab¥`_UV[aY^a`QYa`Z`a[VU`[_]R^^JPVZ[____`
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a`_¥_Z___a^^]^^_a]Z¥ZZZZ_U^^^ZV^ZXXZ]Z^
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+HWI-EAS443:3:10:855:1644#0/1
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+HWI-EAS443:3:10:947:1141#0/1
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+HWI-EAS443:3:10:954:898#0/1
U`W`¥Pab[^b^HL__bb]_ba]^¥Qab_a[ab_]Uaa
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+HWI-EAS443:3:10:99:530#0/1
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+HWI-EAS443:3:11:1003:1936#0/1
aaaa`_a`[_`_`_^_^_____]_^_YV^]_XV^VWYXO^Y
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aba^a]`abbb]b`aa]b_aaabaXa_Z_a_]ZY_[X[]H
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+HWI-EAS443:3:11:1058:1367#0/1
`aaaba`ab_aaa`b¥a`__`]a`__^]YY_QVVZ]W¥^
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+HWI-EAS443:3:11:1088:355#0/1
a¥a`]¥]^]_`[^^U`_`[]_a_a^¥¥^_PP^^_]¥0__

@HWI-EAS443:3:11:1101:221#0/1
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aa`XOYaaaaa__^`a`^XU]^Z__^`]^SM^X^_^_^^
@HWI-EAS443:3:11:1159:1222#0/1
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+HWI-EAS443:3:11:1159:1222#0/1
_ba]URaaa`¥`a`Xa__`_[^_a_aXa`_U]^`a_U`
@HWI-EAS443:3:11:1212:1416#0/1
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+HWI-EAS443:3:11:1212:1416#0/1
abbababaaabb`aVbabbaaa]aa`aa`T]^`b`^aaaX
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GCTTGGAGAACTGTGATGAGAATGGGAGACCTTCACTAC
+HWI-EAS443:3:11:1219:1520#0/1
¥¥]Z`b]]¥¥X`aH`X`b____^Z]S``ZVLNV]TXX[XN
@HWI-EAS443:3:11:1227:163#0/1
GTGATGAGAATGGGAGACCTTCACTACCTCCAGAGCAGAA
+HWI-EAS443:3:11:1227:163#0/1
a¥a`bb`]aaaaa_a`````__¥`_^[_ZT[_¥_V__U¥
@HWI-EAS443:3:11:1252:949#0/1
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+HWI-EAS443:3:11:1252:949#0/1
`aaaa^`]^Z_baaaaaaa```^_a^aa_YZ^a____Z____
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GAGAATGGGAGACCTTCACTACCTCCAGAGCAGAAATGAA
+HWI-EAS443:3:11:1275:1437#0/1
aaa_aaaaa```_a_aaaa]¥]^`^aa¥a¥¥a]¥Wa_Y`
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+HWI-EAS443:3:11:1323:475#0/1
a]b¥aa^a^_a`_[[_¥__WW__Q]_^^WW^Y`YYTY¥WW
@HWI-EAS443:3:11:1421:35#0/1
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+HWI-EAS443:3:11:1421:35#0/1
a_a[Pa__a^a^WV¥_¥^V^RTTWWVW¥U¥QWYWWYBBB
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+HWI-EAS443:3:11:1440:491#0/1
abba`baaaZb_aabaabaab`aaaa_a]^`a_a^a]^`a_a
@HWI-EAS443:3:11:1451:416#0/1
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+HWI-EAS443:3:11:1451:416#0/1
T`abaaaabb_b¥_b`[Sa]Z__^]UU_`Xa]UaX[X_]B
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+HWI-EAS443:3:11:145:555#0/1
a]Z``^aa]Z]_`][a_¥OYY`V`_`Z¥`W¥[`Z^]]_`_
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+HWI-EAS443:3:11:1492:1120#0/1
`)]`_ba¥`R`_[Y`¥_ZFU^Z`_]TaN^^VYPV[^Z]]
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+HWI-EAS443:3:11:1498:56#0/1
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+HWI-EAS443:3:11:1504:469#0/1
abbb_aa^^b^baabaaa^`_babbb_aaaa^]`_`aa`
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+HWI-EAS443:3:11:1507:514#0/1
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+HWI-EAS443:3:11:1569:1318#0/1
^_]a^bb_^abb`_]^ab_M^Z¥ba`b_]a_____a_a]^a
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aa`^^`aa`aaZ^`a]_`W]^Z`^^`a`_[Ta`¥[_aX[
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+HWI-EAS443:3:11:1646:1848#0/1
U_b`[aabb_bba_aaabbbbb`ba^IabHb_UaWG[_]`
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+HWI-EAS443:3:11:1676:113#0/1
ab`_`b`]^ab_aaR^Wb`_`ZSa`Z_]`a]]`]UZ`^^^
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+HWI-EAS443:3:11:1694:163#0/1
]Y¥K¥bb¥ZV¥Z¥aaba¥_`^`a_abaG^aWG[TX^Z`B
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+HWI-EAS443:3:11:233:1158#0/1
ZaS_Zaab`a¥a`_]`a`Raa[Z]¥_aaX`¥YWaZT¥[`_`
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TGAAAATATACAGAGATTTCGCTTGGAGAAACTGTGATGAG
+HWI-EAS443:3:11:254:42#0/1
aa_`a¥`^a^W`a_b]_Xa_]`_`Y__^^_Z`Z]]^__]
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GAGAATGGGAGACCTTCACTACCTCCAGAGCAGAAATGAA
+HWI-EAS443:3:11:266:1114#0/1
ZU[K[_]¥Q____ZW_aaa^^a^a`]¥Z¥aa``YV¥`a_X

@HWI-EAS443:3:12:1033:884#0/1
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+HWI-EAS443:3:12:1033:884#0/1
`]b_`^_a]```_a[[^__a`^`_____^^¥S[_^a]__^^
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CTGTGATGAGAATGGGAGACCTTCACTACCTCCAGAGCAG
+HWI-EAS443:3:12:1050:979#0/1
aaTG^XU`_WTS__Z_Y`]XZ_¥U¥^__URST^[VP`V_^
@HWI-EAS443:3:12:106:221#0/1
GTGCGTTTCAATCTGTGCCGATTTCTTCAATTAACCACC
+HWI-EAS443:3:12:106:221#0/1
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+HWI-EAS443:3:12:1071:891#0/1
¥aabbaabbbbaa¥`X^aaaR``aab`bbaaYa^`aa¥Y`
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+HWI-EAS443:3:12:1085:1487#0/1
_^ZX¥aba^^^_P¥H]^aa`a[S]U¥a^F]a`_Z¥SIPWB
@HWI-EAS443:3:12:1129:1482#0/1
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+HWI-EAS443:3:12:1129:1482#0/1
aaa``aa`a`aaa`a]¥``_`^`_¥`_`_a`_`W``
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+HWI-EAS443:3:12:1137:1634#0/1
abba][aKa]]a`[bbbaS[_a[a`a_RVPa_¥_aaa__
@HWI-EAS443:3:12:1137:791#0/1
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+HWI-EAS443:3:12:1137:791#0/1
a[_a¥TV````[`[¥`YMUT[KQ`¥¥W`^ZMXY_X^YUXWV
@HWI-EAS443:3:12:1162:1560#0/1
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+HWI-EAS443:3:12:1162:1560#0/1
ab_a__ab`^`aY`_`aaa]_aQ[[Z]_]a]```_]____
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@HWI-EAS443:3:12:1193:239#0/1
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+HWI-EAS443:3:12:1193:239#0/1
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@HWI-EAS443:3:12:1194:318#0/1
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+HWI-EAS443:3:12:1194:318#0/1
ab_``bb^b_Z_]ab^a_`X`R][aaZR^ZSZ^^ZP¥B
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+HWI-EAS443:3:12:1194:431#0/1
a_aa_a`^`^^`_`_`^`YYV]]P[`V`]_]XU_T__NV^_
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+HWI-EAS443:3:12:1196:366#0/1
a¥Zaaa`a^a]baX^^aaa_a`^XZ^`__[a]_a¥¥^`a^
@HWI-EAS443:3:12:1199:1150#0/1
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+HWI-EAS443:3:12:1199:1150#0/1
aaaaaaaa`ab^`Wa^_a¥_a```Y¥^^__W_Y__Q¥^UW
@HWI-EAS443:3:12:1259:1918#0/1
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+HWI-EAS443:3:12:1259:1918#0/1
a`_^^`YX]a_Z00WZ_`X[^_0^X_U^^XS^^]U][ZT
@HWI-EAS443:3:12:1279:1291#0/1
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+HWI-EAS443:3:12:1279:1291#0/1
a`aab_bbbaabTbaabbaaaba`aaa^aa_[a[aa]aa¥
@HWI-EAS443:3:12:1291:260#0/1
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+HWI-EAS443:3:12:1291:260#0/1
aabaaabbbabaa`_baaa`aa``aa_aaaZ^a`a^`a``
@HWI-EAS443:3:12:1302:1485#0/1
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+HWI-EAS443:3:12:1302:1485#0/1
a`ba`a^`^aa_a`a``bbbJ`^`_a^aa[`[R_`^`Y`^`_
@HWI-EAS443:3:12:1316:1619#0/1
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+HWI-EAS443:3:12:1316:1619#0/1
_`bab`S_bbabbabbbb`SRa`Wbaabbb¥F]abaaba
@HWI-EAS443:3:12:1423:1316#0/1
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+HWI-EAS443:3:12:1423:1316#0/1
^a`b`X]b_aaa_abbb`_aab`a_[^Y[a^]W``QXNa_
@HWI-EAS443:3:12:143:1294#0/1
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+HWI-EAS443:3:12:143:1294#0/1
abbbaba_baa`b_aa_¥aaaa`a``a``a]_^a_a`_
@HWI-EAS443:3:12:1451:1076#0/1
CTCCCATTCTCATCACAGTTTCTCCAAGCGAATCTCTGTA
+HWI-EAS443:3:12:1451:1076#0/1
aabaXbb_abaab^a`babaaaaaaaa`Wa`_a__W`a^]
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+HWI-EAS443:3:12:1454:1121#0/1
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@HWI-EAS443:3:12:1470:993#0/1
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+HWI-EAS443:3:12:1470:993#0/1
aaaaba_aaa_a`____aZ]¥¥S^P`YX]^^`W[^X_Z__

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+HWI-EAS443:3:12:1555:653#0/1
][a`a_bbaa_aa¥a¥_aa__^`]^a_0_U^^OH¥XU]]
@HWI-EAS443:3:12:160:1266#0/1
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]S]`ba^^_aS`aaaaaa`aa`ab`Z^]]aa_`¥^`
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+HWI-EAS443:3:12:1622:2003#0/1
aaaUQVWVW^R^JYQRWazRT]WXY]_¥PFMXV¥^^_VBB
@HWI-EAS443:3:12:1644:1483#0/1
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+HWI-EAS443:3:12:1644:1483#0/1
aaaaaa^ab`a__a_a`[``____a`aa`¥]__`````_aV`
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U]bbbabbb^`bZWa^aaaaW`H]bX[_a[_]_aXaYB
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+HWI-EAS443:3:12:1747:1064#0/1
a`aaa_aabaab__aaa`[U`]_aaaa_aW¥__`^`aa_
@HWI-EAS443:3:12:191:669#0/1
GGGTGTTGCCTCTTCCTTTAAGGACTTTTGATCTCGGCG
+HWI-EAS443:3:12:191:669#0/1
Zab_bZ^_a`^`_]_^Za^]^```[TTaaZYRXa^``B
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+HWI-EAS443:3:12:237:820#0/1
abaT`ba`_a¥aX_aa^aaa]V`¥a`^a`a_`^_`Z^^^
@HWI-EAS443:3:12:244:61#0/1
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+HWI-EAS443:3:12:244:61#0/1
abb]aaaaaabYaa¥Y¥^]_a^a```_R]]W^a]^`[BBB
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+HWI-EAS443:3:12:24:490#0/1
`bbababbababb`Z`baa`aaaaaaaaaaaaa^^aaa
@HWI-EAS443:3:12:291:377#0/1
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+HWI-EAS443:3:12:291:377#0/1
a`[^]_`WW^a^a`a_U^a]¥^`a`aa^¥a]¥¥a_^^]_
@HWI-EAS443:3:12:293:1489#0/1
TGAGAATGGGAGACCTTCACTACCTCCAGAGCAGAAATGA
+HWI-EAS443:3:12:293:1489#0/1
Y[SaVa_a`a_a`^a`_aaa_¥FXR0a^a^_`_^Y^[Z^B
@HWI-EAS443:3:12:403:236#0/1
GTCGCTTTCAATCTGTGCCGATTTCTTCAATTAACCACC

+HWI-EAS443:3:12:403:236#0/1
a^[aa_aa_____a`)]`^``[^_`^`¥W¥¥]^`^S]_X]
@HWI-EAS443:3:12:403:578#0/1
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+HWI-EAS443:3:12:403:578#0/1
aT`[aba`)]a`aQV¥0aPP__a_TRQ_ZP^[Qa``_]`^]
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AAATCGTGGGAATGGATCTTGAAAGAGGAATCCAGCGAGAC
+HWI-EAS443:3:12:427:310#0/1
aa_aaaabb``aaa[Y]`Z]¥```aa``_]`__`^_Y]WY
@HWI-EAS443:3:12:473:100#0/1
ATGAGAATGGGAGACCTTCACTACCTCCAGAGCAGAAATG
+HWI-EAS443:3:12:473:100#0/1
aab`b]aaaaa_a``_`a``_]`_Z_^]¥`^^X^_XYX]_
@HWI-EAS443:3:12:576:1045#0/1
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+HWI-EAS443:3:12:576:1045#0/1
_¥`b0YS_R[¥XU`__J¥PZ]Y_[_]_VaZYa_`_V]^ZX`
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CAATTGCATCTGTACCTACTTCGCGCTACCTTTCTGACAT
+HWI-EAS443:3:12:595:1980#0/1
aaaX]W^ba``U^a]a_Ua^_aaHXaaN[¥U`^^Z_]`^B
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+HWI-EAS443:3:12:599:1025#0/1
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@HWI-EAS443:3:12:599:691#0/1
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+HWI-EAS443:3:12:599:691#0/1
aaa¥¥a`aa[a`aa```_aa_[[a¥^____]`____`^^^XX_
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+HWI-EAS443:3:12:66:729#0/1
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@HWI-EAS443:3:12:699:1264#0/1
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+HWI-EAS443:3:12:699:1264#0/1
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+HWI-EAS443:3:12:700:168#0/1
aW`^]`^```_____]_]_]`X¥^^^W_^Z^Z^]`^][U¥YX
@HWI-EAS443:3:12:723:1152#0/1
GCCGATTTCTTCAATTAACCACCTTATTTCTCAAATTT
+HWI-EAS443:3:12:723:1152#0/1
aaababbbbbbaaaaabbaaab_aaaaa`__`_a`_a`_
@HWI-EAS443:3:12:728:1520#0/1
TGAGAATGGGAGACCTTCACTACCTCCAGAGCAGAAATGA
+HWI-EAS443:3:12:728:1520#0/1
_TXY``_b`Xa`R]KX]U]aa¥[]^aXV[V]`SbTTa`_a

@HWI-EAS443:3:12:773:392#0/1
CTTGGAGAACTGTGATGAGAATGGGAGACCTTCACTACC
+HWI-EAS443:3:12:773:392#0/1
a`aab``_b_XZa_XZ`]S][^]aaa[ZYGJW__X¥]_XR
@HWI-EAS443:3:12:775:823#0/1
GAGATTGCTTGGAGAACTGTGATGAGAATGGGAGACCT
+HWI-EAS443:3:12:775:823#0/1
aab]aabb`bbba¥a`a`aaa^a_``_a^``_``^a^X]_
@HWI-EAS443:3:12:804:971#0/1
AGATTACACTGAAGTTCGCTTTCAGTACTATGTTCTTTTC
+HWI-EAS443:3:12:804:971#0/1
_a^X^a^abbbba`a]a`b`^__¥]a_YP]``a[`X````Y
@HWI-EAS443:3:12:812:124#0/1
GAAACGAGAAAGCTCTTATCTCTTGTCTACTTCAAGCAG
+HWI-EAS443:3:12:812:124#0/1
aabbab¥b^aaaaaaaa`a_a^_``_a_`_]__]_]a]_a
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TGCGGCACAGATTGAAAGCGACAGAGAATAGTTTCGAACA
+HWI-EAS443:3:12:820:1489#0/1
XZT]a[`bVb`_ab_bababa`¥a`aa_`_aS^____^^_
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+HWI-EAS443:3:12:834:623#0/1
Ka`b_Z^¥¥¥aZba`]baaa[Q^aXQY]a^aa`Y[PV]^U
@HWI-EAS443:3:12:897:985#0/1
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+HWI-EAS443:3:12:897:985#0/1
aabb`]``aT]QTV`X`_aaa_¥a_[Z][¥_]`_¥VW]`¥
@HWI-EAS443:3:12:916:92#0/1
GCCGATTCTTCAATTAACCACCTTATTCCTCAAATTT
+HWI-EAS443:3:12:916:92#0/1
aaabaaaaaaaa_a`aaa_____Wa[`a`_]`^a^^`_`_a
@HWI-EAS443:3:12:922:1288#0/1
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+HWI-EAS443:3:12:922:1288#0/1
``]``_PY_aaa¥[`S¥¥``Z[WWW[¥Za_]_]`X^YU`
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CGAGAAAGCTCTTATCTCTTGTCTACTTCAAGCAGTAGT
+HWI-EAS443:3:12:932:1681#0/1
a__baa¥a^aa`_aa`_aa_____`a_``_a__`_Z`aX
@HWI-EAS443:3:12:945:1053#0/1
GTTCGAAACTATTCTCTGTCGCTTCAATCTGTGCCGCAT
+HWI-EAS443:3:12:945:1053#0/1
a_^Z_VYVOK`^ZYN^LS_TNTX`[VWNYPP`UM`G`B
@HWI-EAS443:3:13:1020:1727#0/1
GCCGATTCTTCAATTAACCACCTTATTCCTCAAATTT
+HWI-EAS443:3:13:1020:1727#0/1
a`abb_Zaa¥a^S^[`a`a^Z``^``_____XQ[_a]```_`
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+HWI-EAS443:3:13:1023:798#0/1
aa_baaaaa`aaa`^^`_a_`a`_`^a^`_`_`^`[_`X
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+HWI-EAS443:3:13:1024:144#0/1
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@HWI-EAS443:3:13:1125:1576#0/1
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+HWI-EAS443:3:13:1125:1576#0/1
]¥abaaXaabbabZaabYaab_aaa_aa]aa_X``^a```
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AAGGTAATGGTCAAATTTCTCCAATTGCTCCCTCCTC
+HWI-EAS443:3:13:1125:349#0/1
`¥bb[Q^aR[^¥Q¥SQ[_Z`YLSYLQT[_SS¥SURVRW
@HWI-EAS443:3:13:1167:572#0/1
GTCGCTTTCAATCTGTGCCGATTTCTTCAATTAACCACC
+HWI-EAS443:3:13:1167:572#0/1
a`aaaaaaaa`^a`]`_`aaa_a`_`_a`_`ZX_YX
@HWI-EAS443:3:13:1197:1390#0/1
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+HWI-EAS443:3:13:1197:1390#0/1
`¥b_baa_]`^aUbbaa^U__a_¥b_ba[¥^aPaa_
@HWI-EAS443:3:13:1222:1869#0/1
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+HWI-EAS443:3:13:1222:1869#0/1
aaaaaaaYbaaa_¥Y`Yb_aY``[QV[T`_`[[EM__]]a¥
@HWI-EAS443:3:13:1230:171#0/1
GCTGTTTCGATATCGAGCCAAGGTTGCCTCTTCCTT
+HWI-EAS443:3:13:1230:171#0/1
aVU`QX^M¥^[]¥UP[S_QXZRY]]VUVBBBBBBBBBBBBB
@HWI-EAS443:3:13:1239:1084#0/1
GATGAGAATGGGAGACCTTCACTACCTCCAGAGCAGAAAT
+HWI-EAS443:3:13:1239:1084#0/1
Z¥`_X_ZZV]KUV_`U^XaaRQZ[_ZZRxa^WSWPZn¥^Y
@HWI-EAS443:3:13:1280:459#0/1
TGCCGATTTCTTCAATTAACCACCTTATTTCCCTCAAATT
+HWI-EAS443:3:13:1280:459#0/1
aa^[_`aaaab_aaa`_a`_`a`a_]`_`a`aa¥_`^a`_`_`_`]
@HWI-EAS443:3:13:1282:300#0/1
TGGGAAACAAATCGTGAATGGATCTTGAAAGAGGAATCC
+HWI-EAS443:3:13:1282:300#0/1
ab`_`_aaY_aa_[_^bb]_aba[_`aaa¥`¥`_`_`_`_`^]UN
@HWI-EAS443:3:13:1295:400#0/1
GCCGATTTCTTCAATTAACCACCTTATTTCCCTCAAATTT
+HWI-EAS443:3:13:1295:400#0/1
aa`baaaaa`aa`^`aaa`^`_`_`¥aaa`aa^_a`_`^¥a`_`_`
@HWI-EAS443:3:13:1304:358#0/1
ATCCGCAAGCGATTTGCAGACAATGGATTGGGTGATGCCC
+HWI-EAS443:3:13:1304:358#0/1
aaa_a]^YaWVYQZ[GM¥`SRMYWUNBBBBBBBBBBBBBBB

+HWI-EAS443:3:13:1607:776#0/1
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@HWI-EAS443:3:13:1608:264#0/1
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+HWI-EAS443:3:13:1608:264#0/1
a¥a¥Y`a_a¥XUG[W_ZY^^UPWWW¥¥YVWU¥YUUU^YW
@HWI-EAS443:3:13:1620:993#0/1
GAAAATATACAGAGATTGCTTGGAGAACTGTGATGAGA
+HWI-EAS443:3:13:1620:993#0/1
aaaaabaaaaaa`a]aa_a`a`aa_`a`_]`W`W^a^_]`
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aabbbbaaaaaaaaaaabbaaa_`aa^aaa__a`aab`_
@HWI-EAS443:3:13:1630:187#0/1
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+HWI-EAS443:3:13:169:566#0/1
a]_`ZJ^aYVY]Z__`a[_]_`__T¥0^[WYS_WY]U^
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+HWI-EAS443:3:13:1786:407#0/1
abaa_^aa_a`a_aY_a`a_]`^YY^_X_V]¥STYYVVV
@HWI-EAS443:3:13:199:782#0/1
CACGGTTCGAGTCTCTGAAAATATACAGAGATTGCTTGG
+HWI-EAS443:3:13:199:782#0/1
aaaaa]aaa`^aa`aaZ`_a_a```_a]a^__`__^[`
@HWI-EAS443:3:13:210:412#0/1
GCCGCATTTCTTCAATTAACCACCTTATTTCTCAAATTT
+HWI-EAS443:3:13:210:412#0/1
aabaaaa`aaa`aaaaaaaa`_aaa`_a_a`````_`a
@HWI-EAS443:3:13:212:1594#0/1
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+HWI-EAS443:3:13:212:1594#0/1
aba`bba_aabbaab[abaaaaabbbaaa`_aaba_aaa`
@HWI-EAS443:3:13:239:1180#0/1
GCCGCATTTCTTCAATTAACCACCTTATTTCTCAAATTT
+HWI-EAS443:3:13:239:1180#0/1
abaababbbbaabb`abaabaaba_aa`baabaa¥aaa

@HWI-EAS443:3:13:873:1329#0/1
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+HWI-EAS443:3:13:873:1329#0/1
aabba_`^^aaa_]P^^a^aaa_`a`a``a]aaaS` [M¥
@HWI-EAS443:3:13:894:96#0/1
CCGCATTTCTTCAATTAACCCACCTTATTTCCCTCAAATTTTC
+HWI-EAS443:3:13:894:96#0/1
Xb`abbbb]^^V^Xbbaa^]b^¥babba`RTbaXY_b^aY
@HWI-EAS443:3:13:903:785#0/1
CTCTGGAGGTAGTGAAGGTCTCCCATTTCTCATCACAGTTT
+HWI-EAS443:3:13:903:785#0/1
aabbaaabaM_aaa]Za_VZ`aaUU¥]M`S`]PX^_aU^`
@HWI-EAS443:3:13:908:1603#0/1
GGTTAATTGAAGAAATGCGGCACAGATTGAAAGCGACAGA
+HWI-EAS443:3:13:908:1603#0/1
aX`]`X`aba^V]`aa¥V_`abaaaa]`aaa`^a[_aY¥
@HWI-EAS443:3:13:908:833#0/1
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+HWI-EAS443:3:13:908:833#0/1
^b_¥aa^`[_``^baaa^_aTa¥]^aa_YV`ba_aaa`
@HWI-EAS443:3:13:911:324#0/1
GCCGCATTTCTTCAATTAACCCACCTTATTTCCCTCAAATTT
+HWI-EAS443:3:13:911:324#0/1
aVa]Zaa[`X_[]^ZZT[]TY[X]^^`_^_X^]^^Z^]W
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+HWI-EAS443:3:13:939:1974#0/1
aba`aaa`aa`a[___aa`a___]`aa_^^`]`]T`a[]_
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+HWI-EAS443:3:13:989:1040#0/1
aa_]SQ`a`]a[_[____^__Y_¥]V¥]IXRZ_V^U^`_
@HWI-EAS443:3:13:991:577#0/1
TGAGAATGGGAGACCTTCACTACCTCCAGAGCAGAAATGA
+HWI-EAS443:3:13:991:577#0/1
a`_a`aaa`a`a^]Y_a`^^`]__`_a^_Y]a_¥_`^¥
@HWI-EAS443:3:14:1050:1096#0/1
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+HWI-EAS443:3:14:1050:1096#0/1
a``a___a`a``_`a]_`_`_a`^____a^_`^_`Z_Z]
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+HWI-EAS443:3:14:105:197#0/1
a]NYaa`a^^^NXaaVXNTaa]NW]`_]`[_^]] [T]U[
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+HWI-EAS443:3:14:1069:567#0/1
aa`baaa`ab^a_aa`a`_`a`a^a[_Z_`^aW_`]]^S^
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+HWI-EAS443:3:14:1070:622#0/1
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a]Wa` ___¥`a]` __[X_^a]^` ¥^_^]X]_`]UX^XZ
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¥` `__a[TG`XX[[aT^SM`aaY[`XEH` __KT¥ZRZR X]
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XR_V]¥SN^]M_OXZ_¥[WZQGVWa`Z_aTJMZTJSHYF
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a` `` _aaaa`a` ¥Y[]_VUS`]¥_] ^_X_X__SZYV^¥OW
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+HWI-EAS443:3:14:1389:1683#0/1
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+HWI-EAS443:3:14:1424:1887#0/1
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+HWI-EAS443:3:14:1499:603#0/1
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+HWI-EAS443:3:14:1566:1526#0/1
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+HWI-EAS443:3:14:186:1433#0/1
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@HWI-EAS443:3:14:233:1342#0/1
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+HWI-EAS443:3:14:233:1342#0/1
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+HWI-EAS443:3:14:241:704#0/1
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+HWI-EAS443:3:14:245:2040#0/1
`¥Z_``]aa_``[`aV[[aaa`a```_U[[_TU^Z_]]]
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aaaa^a`a`_WaZ_a`__`]^^T¥]^_^X]_Z^__ZXU]
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aa`a`a`X``_`_^][a]^aa^`_]_]__^][`Z_WNU_X

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+HWI-EAS443:3:14:679:1520#0/1
abb¥`_]Yaaaa^T]]ab`NX_W_aa_aa_X_a`0`a_
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+HWI-EAS443:3:14:681:549#0/1
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aaW`b]aa^^a^UZ`a`[Za_____^_aa_]a`_`a]]^
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+HWI-EAS443:3:14:686:1242#0/1
]¥_`aaabLbbaaba[Saba`[aa_aba_`_a__`^_[`
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+HWI-EAS443:3:14:691:824#0/1
aa```baaaaaaaaa`]`aaaa`aa_``__`]_``_]`^^
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aaaaa^Z^aaaa_[]a_``¥¥¥^¥a_aa`_``^__¥`_`
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`baaa`aaabaaa_a_]aaaa_]`aaaa``aaa^aa__
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UX¥_^Z]`V``]PT_UV]¥aVNZDX¥___W]_YUYU_[]
@HWI-EAS443:3:14:86:1382#0/1
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+HWI-EAS443:3:14:86:1382#0/1
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+HWI-EAS443:3:14:879:1656#0/1
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+HWI-EAS443:3:14:895:1479#0/1
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aY¥aaabaaaXa`aaZaaa`a_0_Z`_`X]^]_W]`_`
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+HWI-EAS443:3:14:928:939#0/1
a``abaX]aaaaaa^abab^V```aaaaaa^[_`a`¥aa
@HWI-EAS443:3:14:998:1211#0/1
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+HWI-EAS443:3:14:998:1211#0/1
a]a`aa`^`a]`^`_Y_]`_¥W[^`]^`^^]`_`^`_WY^WU
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+HWI-EAS443:3:15:1002:36#0/1
a`WYa¥a_¥`a¥bXa[F^`^`a¥`^Q[a^^_FZZ]X]X`^`
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+HWI-EAS443:3:15:1010:1531#0/1
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+HWI-EAS443:3:15:1015:834#0/1
_Y```][`aba`^`aaaVTV`]]`a^[]^`_a`_aYSZP[
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+HWI-EAS443:3:15:1042:1533#0/1
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+HWI-EAS443:3:15:1112:1018#0/1
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a`b_^`bab^`b_`a_aaa_aa_``_b^a__a]Y]aa
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+HWI-EAS443:3:15:1228:837#0/1
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@HWI-EAS443:3:15:1231:1082#0/1
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+HWI-EAS443:3:15:1257:1820#0/1
aaabbbba`_aaaaYb_aa_]a__a[aaaaa_^_ba_aa]
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+HWI-EAS443:3:15:1282:1107#0/1
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+HWI-EAS443:3:15:1314:482#0/1
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+HWI-EAS443:3:15:1347:1540#0/1
^`^a_baaU^`]b````_a`OZS¥Yaa^`a^¥TXaa_[_`
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+HWI-EAS443:3:15:1373:1304#0/1
a]`aaa_ba]aa_XR¥[`aWF`[W^`^`_`^S^`____`]
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+HWI-EAS443:3:15:1420:1898#0/1
``aaa_b``__[]M]`aa]¥`¥`aW`¥Z[YQ_Y`¥_¥U_¥

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+HWI-EAS443:3:15:1439:1670#0/1
abaa_a^[\`¥X¥_Vaa¥a¥^W]¥`^]\`a^^ZYR^[TWJX[
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a`b`bbbbbbbaaaX[babb]¥^b``ba_^b`abbababb
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+HWI-EAS443:3:15:1529:1591#0/1
_`aS[\`a]TT[VOYVaab[a]\`Y¥Wa__`_^aU_[HHW[U
@HWI-EAS443:3:15:1581:624#0/1
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+HWI-EAS443:3:15:1581:624#0/1
ababb`baba_baaa_a```¥[\`^___a_[W]S``^]
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@HWI-EAS443:3:15:1609:94#0/1
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+HWI-EAS443:3:15:1609:94#0/1
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+HWI-EAS443:3:15:1668:825#0/1
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+HWI-EAS443:3:15:222:654#0/1
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+HWI-EAS443:3:15:240:2042#0/1
Y]XQ_¥[_aaWX_`b^Ta[bWZ_aba_ZGXa`aaa`aRR
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_a`^`aaV[Wabab]Q_a`Z```_Ya^Z^_aa_a`b^Za_
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`Z`X_b¥`^¥[_^¥[PV¥aa[_aaa_[VR[U__`L_X_^

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@HWI-EAS443:3:15:545:1110#0/1
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+HWI-EAS443:3:15:545:1110#0/1
aaZM^`_^^[Ua[¥Z`aaa[``_a__]`a_]a^R]____`
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a[_Z]]VSZW¥YX^`ZT^a[J¥V^Z[W¥[``^`_SP]V]W
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^`_`baab_b``]S_aaaaZ]_^YY]XU``W]^_YY_`]
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_b_U_Ya[RXUaaabba`ba`VN¥ba[aaa__aaa`aa`a
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¥UU¥ZZ]aPUV_b_SIZaa[`Za_¥^QT[_a]a[aa``¥X
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+HWI-EAS443:3:15:653:625#0/1
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ZW^T_T_Y_0][0_``aaaa_QXY_`aW¥Z[^`aVLX[
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aaa]a_^a`a_a_a^_aa[`_a¥^`^`¥`0_`[Y^Y¥¥[
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T^a^aSR^]P_TPYZ`]¥_¥T^_VZ_`VZ^a`Y[W^``VT
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+HWI-EAS443:3:15:793:1782#0/1
``_J_S]NU_aaa`]_a`aa`Y_aaaWW_``a_`¥T[^P¥
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+HWI-EAS443:3:15:952:196#0/1
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+HWI-EAS443:3:16:1010:1517#0/1
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+HWI-EAS443:3:16:1017:833#0/1
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+HWI-EAS443:3:16:1088:1014#0/1
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+HWI-EAS443:3:16:1114:50#0/1
¥U^V_Ua¥T_[aaa_]`S_UQ[Y``TS___WUZRT`WZ_
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+HWI-EAS443:3:16:1152:1840#0/1
]b^_]a]b¥b^`aaaP][`aUH¥[[DU^W`R¥`_[Z_`^^
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+HWI-EAS443:3:16:1160:1828#0/1
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+HWI-EAS443:3:16:1171:1070#0/1
I_[¥[aTaZ`^a_`QZ¥SUXS`[W^^``VJ_b_TT`W[a_
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+HWI-EAS443:3:16:1233:1451#0/1
ZZ_S_¥_0]`[R]^`U`WQZ```ZX_[a`Z^aaSVT[
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+HWI-EAS443:3:16:1241:1243#0/1
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_b`^b`babbbaa^`^^^aaa^]`_aa¥^aa¥a¥¥_^^_
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+HWI-EAS443:3:16:1293:295#0/1
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+HWI-EAS443:3:16:1316:129#0/1
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+HWI-EAS443:3:16:1342:1462#0/1
a`_`aaa]````^`[_a][```_[`a`^Va_`¥ZZ^ZW
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]W^Wa^_Ubb[I^¥ZX`a_PO`b`_`¥^aaaa^`a_[HJ_
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+HWI-EAS443:3:16:1423:1814#0/1
aa_^[`a¥`¥]¥[_]`Xa_SZWV[N`^]Y[¥[YW^Y]]X
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+HWI-EAS443:3:16:1535:145#0/1
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a`aababaabaaa`a```_a`a__aaaa`a`^^^`^`_¥__
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+HWI-EAS443:3:16:1611:646#0/1
aaa`^^)`aab`_Y)``a^a``N¥__[^[W____]]¥N[U^
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+HWI-EAS443:3:16:1768:854#0/1
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aaa^a`aaU```__^¥``a¥¥¥U_Y^[^^`_]XXV^]RUX
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¥`^_ba_SZ]a_¥]a^WWW[X^_K¥ZQa[V]LL[R]QPR¥
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+HWI-EAS443:3:16:393:167#0/1
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aa`aa`Y^`aaa`a^_a`_`````^Y`_`_aW`_^_]X]_
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+HWI-EAS443:3:16:403:1165#0/1
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+HWI-EAS443:3:16:40:1250#0/1
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^QRU[arS]`_^¥WUT_^V^_YY[UUUXZW^RUWV¥WS¥U
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+HWI-EAS443:3:16:469:1885#0/1
`Za_a`aaa[aa¥[a`a__a¥___aYa^__a`_____¥¥^]
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+HWI-EAS443:3:16:476:1259#0/1
aaa_¥S`bZ`Q^W[X`a^]]a``[`]`¥S_^]`^Q]_¥¥^N

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aa`baaaabaaa_a__aaa`__^`_`_a`^]`__[K_`__
@HWI-EAS443:3:16:500:521#0/1
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+HWI-EAS443:3:16:500:521#0/1
``aaaaaaG_aZ`V`^`_a`^`^V¥YY]XNZGY]VM]^R[R
@HWI-EAS443:3:16:514:1575#0/1
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+HWI-EAS443:3:16:514:1575#0/1
aa_aa`abbabaaa]^`^`[abaaaabbabaaa_Z``]^`_X
@HWI-EAS443:3:16:535:154#0/1
AGAAACTGTGATGAGAATGGGAGACCTTCACTACCTCCAG
+HWI-EAS443:3:16:535:154#0/1
]^`^Q^_ba`^`Taa]Z¥a`a`[Y]W`X]____^V^¥UY_V]_
@HWI-EAS443:3:16:540:1019#0/1
TGCCGCATTTCTTCAATTAACCACCTTATTTCTCAAATT
+HWI-EAS443:3:16:540:1019#0/1
`aV_aa_^H_a_^ab^baaa[0[]a`^`a`^`a_bYb]aa_
@HWI-EAS443:3:16:54:525#0/1
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+HWI-EAS443:3:16:54:525#0/1
a¥^`^T]RL]aY^`_S^_Y[aa`^`_YPaXX^S[¥[aT]XH
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+HWI-EAS443:3:16:59:635#0/1
a__aaa`aaabaa`aaZaa`a^^`^`a`a`^`_`aaa`_aa^`
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+HWI-EAS443:3:16:634:471#0/1
a¥bbbb`abWa]_bbaaabb`abaa`babbbVaaaaa^a_
@HWI-EAS443:3:16:658:615#0/1
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+HWI-EAS443:3:16:658:615#0/1
`ab`a_a`_aa_ba_a`aa^_aa__aaa`a`^`a`^`_a`_
@HWI-EAS443:3:16:683:643#0/1
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+HWI-EAS443:3:16:683:643#0/1
^_a¥^_S]¥_a^^`Y__a^^`^`_S```[a¥¥aa_]U]^X
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+HWI-EAS443:3:16:686:1362#0/1
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aaaaaaaaaaaaa_a`aaaa`_a_]a`aaa`__`_¥¥_`^a
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+HWI-EAS443:3:16:761:437#0/1
aaa`_a^aaa`a[a`a`a`_a^`_`^__a__a`^`
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Z_bXVa^`^Q_I]`Z`^aa]aWa_ZGY]H]__aTPQTFW
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+HWI-EAS443:3:16:80:1521#0/1
`_aaab¥^I]^ab`_b_b`a_aaaaaaa`_aaZP^a^a
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+HWI-EAS443:3:16:815:1708#0/1
abaa`ZX¥a`aXW]_aa^_a__a`_aX`V^aa`_`_`
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+HWI-EAS443:3:16:826:880#0/1
aaabb`a]XUOP[YR[TZ]ZZUWS¥_G_Y]U_[ZUS_Z^¥
@HWI-EAS443:3:16:829:785#0/1
GGAGAACTGTGATGAGAATGGGAGACCTTCACTACCTCC
+HWI-EAS443:3:16:829:785#0/1
abaaaaaabbaaaaaab^aa`aa_a_]`````^a_¥[^^_
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+HWI-EAS443:3:16:844:758#0/1
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^_Ua¥`X]NY``a]_a`^`aa__b_]¥a[ba___]`_`_`
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+HWI-EAS443:3:16:892:1357#0/1
¥¥]¥¥^__T]`aaaZ^^`aa`a__`a`_]__ZRFXTTW^
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+HWI-EAS443:3:16:898:631#0/1
^¥]¥XX_bS[a`bbS¥Y¥]aa¥¥^^]`_b]aaaab[_a`
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+HWI-EAS443:3:16:907:1534#0/1
[¥¥_bab_bbbbbbaabaa_aaaa]aaa`aaaa`_[aa

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+HWI-EAS443:3:16:920:1183#0/1
ab¥baabbbbaaab_a` `a__`aab`^a_`aa^a_`^`^U
@HWI-EAS443:3:16:925:1884#0/1
AGAAACTGTGATGAGAATGGGAGACCTTCACTACCTCCAG
+HWI-EAS443:3:16:925:1884#0/1
aa`aa_aa_`^`a_a`^`a]^^]``]U^_____`_V^ZX^[
@HWI-EAS443:3:16:950:231#0/1
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+HWI-EAS443:3:16:950:231#0/1
aab^` `aa]aa`a_a`aaa_`_a^Y^^]]a^_[VVYV^Y
@HWI-EAS443:3:16:952:167#0/1
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+HWI-EAS443:3:16:952:167#0/1
aaaa_`aaa_aa`_` `a`a_`^`_¥a_`a` `__`a_Z`_`_`
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+HWI-EAS443:3:16:983:870#0/1
aaaaaab_a_aa_a]`aaa_`a_]_____a^`_`_X^V]^
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+HWI-EAS443:3:16:991:1368#0/1
` `aX][a]THLXVPZ¥Y][[_YZ^_NX¥_YX]YSTS¥]
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+HWI-EAS443:3:17:1051:1244#0/1
` `bbbbaabbbbaab`aababa_aaaaaaaaa`aa^aa
@HWI-EAS443:3:17:1079:124#0/1
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+HWI-EAS443:3:17:1079:124#0/1
Va¥^^baa]ba` `bbaaU_[a]VVZ`aa` `a`aa`a__Z_
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+HWI-EAS443:3:17:1083:1133#0/1
Sa¥a[ba¥R¥TaVZ]T]]¥aa_[Wa_YTV^_aa_RY]^_a
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+HWI-EAS443:3:17:109:575#0/1
aa[aaaa_` `aa_a`¥`Y[_`_]`^]_X_]_]Y¥W^__^
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+HWI-EAS443:3:17:1119:834#0/1
_U`WTWa`Ga¥ab_aa[a]a` `X^aa_]`^a_aa` [aWa__
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+HWI-EAS443:3:17:1119:849#0/1
a^0_`^ [S^_`^YZR___¥SW^a_`^I`a`^`_WU[[_]`^
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+HWI-EAS443:3:17:1155:1383#0/1
abaababa_H_babb_aaaaabaZaa^a`aaa_`a```_
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+HWI-EAS443:3:17:1164:1136#0/1
][^L[]^]a^^]U`¥a__^TX[XZ^ZaZ[NEUWQ_`
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+HWI-EAS443:3:17:1167:1464#0/1
aaUaba`aaUVX``_a_aa``_J`]W`a`]`^a_`_a5]]
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+HWI-EAS443:3:17:1205:826#0/1
ab_b`aabaa`aV]^a`_^[]Ua`]`_____U]__`Z
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TGAGAATGGGAGACCTTCACTACCTCCAGAGCAGAAATGA
+HWI-EAS443:3:17:1221:585#0/1
^_`aZ^^`a``a^^UW[RT[]aZU]`[Q]^a`¥aU]P`a[
@HWI-EAS443:3:17:1273:949#0/1
AGAATGGGAGACCTTCACTACCTCCAGAGCAGAAATGAAA
+HWI-EAS443:3:17:1273:949#0/1
¥a_`_``a¥_¥¥a[_`^Q]¥T`aa`___W_WW[YW^a_ZS
@HWI-EAS443:3:17:1274:1392#0/1
TGAGAATGGGAGACCTTCACTACCTCCAGAGCAGAAATGA
+HWI-EAS443:3:17:1274:1392#0/1
``_]`ab_`aa`a[_```a``a¥VaZa]a^a_P_WZa_`V
@HWI-EAS443:3:17:1313:938#0/1
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+HWI-EAS443:3:17:1313:938#0/1
abaa_ab_a_ab^a^_aaa_¥a^Y_a``aZaa_U¥^[]_]`
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+HWI-EAS443:3:17:1319:2044#0/1
Zb`H¥aa[`bbaa`a^JW][][]_aU`]U``__`UZ[RRaV
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+HWI-EAS443:3:17:1327:242#0/1
abbb`bbb`baa_`a`_a__```aa]a_a_^a``Z_a__^
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AGACTGTTTCTTTGGCATATCCGCAAGCGATTTGCAGAC
+HWI-EAS443:3:17:1337:57#0/1
abaaaa]ba^`aaa``_a`_¥Y`^^`]_]_^_^[[^YP
@HWI-EAS443:3:17:1342:576#0/1
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+HWI-EAS443:3:17:1342:576#0/1
Ta`]]]`bbb^b`aaabaa`[_a]Ua`^`aaZ_a_[W^a``
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+HWI-EAS443:3:17:1362:1335#0/1
ab_ba_baa_L^[_b^aaaaaaa_a]a^aa^a_`_^Q_Z¥

@HWI-EAS443:3:17:137:1526#0/1
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+HWI-EAS443:3:17:137:1526#0/1
aX^a`a]Y0¥a¥U¥a`aaa`Xa`aaaa`¥`[_]__^_
@HWI-EAS443:3:17:142:473#0/1
TGAGAATGGGAGACCTTCACTACCTCCAGAGCAGAAATGA
+HWI-EAS443:3:17:142:473#0/1
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+HWI-EAS443:3:17:1445:1098#0/1
aa_bb¥bb`a`a_a__`a]aX``_aa_a`a`a`_X^`_`_
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+HWI-EAS443:3:17:146:249#0/1
abaa_aaaa[aa`a__^`_`_a]_]^^^WW`^T]R]_Z¥U
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+HWI-EAS443:3:17:1475:77#0/1
ab_a^^abU_ZaUS^^_Y`U_]RY_RY¥_Y^XUXKNU]MN
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+HWI-EAS443:3:17:1501:174#0/1
Z``_Z¥a¥¥^]¥^]_b¥Q_`^`a]W```_Wa^`¥^aa]L_
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]bbb_bab¥_ab]babbXbbaabaabaaZ_baa_`ba_Ya
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+HWI-EAS443:3:17:1518:274#0/1
_aa^_Sa____`a_[OZX__`W``[baaaa^```]aUaa_
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+HWI-EAS443:3:17:1542:1380#0/1
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a_M[U``[a^^[`^aa_[^UU__a_YX¥aa¥]¥]YVRT[Z
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+HWI-EAS443:3:17:1613:445#0/1
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@HWI-EAS443:3:17:1619:1161#0/1
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+HWI-EAS443:3:17:1619:1161#0/1
aa_```aaaa_`]`a]____`¥_S_RYa^]`W``TXSUTGV
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aa`babaaaaa`a^Z_^^`_]X_^Z_^V_WY_YYY^
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+HWI-EAS443:3:17:1765:541#0/1
abb¥aa`b`_a`aa`a`__a`^`^b`_U`^^`a`XUX
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+HWI-EAS443:3:17:1766:1319#0/1
aaaaa_ab^a`a___Zaaa_a]_^WZ_^ZWZZ^ZU^WZX^
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+HWI-EAS443:3:17:188:1082#0/1
^[U]_Wab``SUY`R`aZYXZVRN_Y[_YZ`a`ZZYHW`]
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+HWI-EAS443:3:17:193:586#0/1
___J_aaaaQb`¥a[a___`_ZY`ZT`^^^[_VR[WZ¥
@HWI-EAS443:3:17:210:21#0/1
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+HWI-EAS443:3:17:210:21#0/1
a`X^[`YQ]a^^P]P¥][Z¥XTX]TVUM^ZZ[PWWUUXWX
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+HWI-EAS443:3:17:222:137#0/1
aba`aa`a]a`a]a^a^^`_V[UW`^^^___]__¥ZZ^X^
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+HWI-EAS443:3:17:239:1534#0/1
aba`]ZV[]^Q0`Q^[WZiaa`^`ROY`^^^___`Y[S[
@HWI-EAS443:3:17:296:1021#0/1
CATCCTCATAAGTATGCCTGGAAGAGAAGGTAATGGTGA
+HWI-EAS443:3:17:296:1021#0/1
¥b_bbb_0_¥ab]bbbaW¥abbaabZ`[^`^¥N¥a¥¥^N_^
@HWI-EAS443:3:17:321:1057#0/1
TGAGAATGGGAGACCTTCACTACCTCCAGAGCAGAAATGA
+HWI-EAS443:3:17:321:1057#0/1
`b`[^`aaaa^[U__a`^a]`PSZ]_a]_X[_SX`][`[_^
@HWI-EAS443:3:17:329:556#0/1
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+HWI-EAS443:3:17:329:556#0/1
ZTJW^_WY_¥_`^¥Y`^^`_`a^_XaVZV¥WSY¥^Y¥[
@HWI-EAS443:3:17:333:498#0/1
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+HWI-EAS443:3:17:333:498#0/1
a`]a`a^abaaa^aaaaaaaa`_aaaa^`aa````_a

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+HWI-EAS443:3:17:33:768#0/1
`_a_a_____Va`_a^`W^aa_^^^U^]`X]^`V^Y[V^R]
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+HWI-EAS443:3:17:370:1015#0/1
[a_S_¥Z_b_aabb_aba`b`baaaVa`Xaa_aa_aV`_^]
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+HWI-EAS443:3:17:406:905#0/1
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+HWI-EAS443:3:17:435:519#0/1
aaab¥¥_a`^_aaaa_abaa`UV_a`_`__aaV__^`[
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+HWI-EAS443:3:17:456:1529#0/1
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+HWI-EAS443:3:17:457:1003#0/1
a`babaaaaaaa`aaa`a`a_aa]^`aa`___`___`^`^
@HWI-EAS443:3:17:461:1060#0/1
CCGCATTTCTTCAATTAACCACCTTATTTCTCAAATTTTC
+HWI-EAS443:3:17:461:1060#0/1
a`^`Q0¥aa^^a])`¥aa]PZ^b_]R]¥X]U^]_TGX[[`
@HWI-EAS443:3:17:508:397#0/1
AGAACTGTGATGAGAATGGGAGACCTTCACTACCTCCAG
+HWI-EAS443:3:17:508:397#0/1
ZJ`^`aS]a¥abaYW`aabbSTaH`R][Z[`]J_Y`
@HWI-EAS443:3:17:519:1937#0/1
GGCACAGATTGAAAGCGACAGAGAATAGTTTCGAACAAAT
+HWI-EAS443:3:17:519:1937#0/1
^`b`SV]¥b`babb[aabaY[aYabb_SNY`aVab_a`¥]
@HWI-EAS443:3:17:521:1999#0/1
AGTCTCTGAAAATATACAGAGATTCGCTTGGAGAACTGT
+HWI-EAS443:3:17:521:1999#0/1
`_`a`a`a_aaaaa`a`aa`__¥]_a¥X[|^]`_^]_W
@HWI-EAS443:3:17:546:1525#0/1
TGCGGCACAGATTGAAAGCGACAGAGAATAGTTTCGAACA
+HWI-EAS443:3:17:546:1525#0/1
¥Ybbb^^_b[SZZ[[aab__aV]_a`^UH__TaX[]W[_a
@HWI-EAS443:3:17:549:423#0/1
CTTGAATGGAATGGTAACACGGTTCGAGTCTCTGAAAATA
+HWI-EAS443:3:17:549:423#0/1
`¥`_^S`bbI``ab[aa^_aaa][`R`¥[_¥aXV__U]
@HWI-EAS443:3:17:566:1236#0/1
GCCGCATTTCTTCAATTAACCACCTTATTTCTCAAATTT

+HWI-EAS443:3:17:566:1236#0/1
]bbX`¥abbba`bbbbba_b_bbVba`b`b^bbbb^abaa
@HWI-EAS443:3:17:568:1349#0/1
CACAGATTGAAAGCGACAGAGAATAGTTTCGAACAAATAA
+HWI-EAS443:3:17:568:1349#0/1
a^bb`aaaaaaaba``aaaa`aa^a`aa`a^`_a`a¥
@HWI-EAS443:3:17:56:1858#0/1
GTCGCTTTCAATCTGTGCCGATTTCTTCAATTAACCACC
+HWI-EAS443:3:17:56:1858#0/1
a^aaaa[]^_[`a__X^[X[]Q]_]_[_a`_____^W
@HWI-EAS443:3:17:583:1494#0/1
GTGATGAGAATGGGAGACCTTCACTACCTCCAGAGCAGAA
+HWI-EAS443:3:17:583:1494#0/1
a^a)[^abaaZ^^b]aa[aa_`a_`a[_`P[`[V[Na`__
@HWI-EAS443:3:17:610:669#0/1
CGCGCTACCTTTCTGACATGACCCTCGAGGAAATGTCACG
+HWI-EAS443:3:17:610:669#0/1
V_bbabbbbaababbbaab]bbbaababbb_bbb`Xbbab
@HWI-EAS443:3:17:611:956#0/1
GCCGCATTTCTTCAATTAACCACCTTATTTCTCAAATTT
+HWI-EAS443:3:17:611:956#0/1
abab_Zaaaaaaa`aaaaa`aa_`__a`a`_a]`X_a_`
@HWI-EAS443:3:17:613:707#0/1
GAGAATGGGAGACCTTCACTACCTCCAGAGCAGAAATGAA
+HWI-EAS443:3:17:613:707#0/1
aaa_aaaa`^`a_`_`a`_`_`_`_`_]aa[____a^_]____^
@HWI-EAS443:3:17:635:553#0/1
GCCGCATTTCTTCAATTAACCACCTTATTTCTCAAATTT
+HWI-EAS443:3:17:635:553#0/1
`aS_`bbbbbbbbbbbbbabaaaabaaabaaaa`a[aaaa
@HWI-EAS443:3:17:638:658#0/1
GCATCACCCAATCCATTGTCTGCAAATCGCTTGCGGATAT
+HWI-EAS443:3:17:638:658#0/1
aaaa¥aaaa¥aa`aaa^`_]_^__a___Y^]`¥^^U]ZR
@HWI-EAS443:3:17:672:1661#0/1
TGGAGAACTGTGATGAGAATGGGAGACCTTCACTACCTC
+HWI-EAS443:3:17:672:1661#0/1
Va`]^a___Z)`_]_¥`QV]b```_]UH]V`_ML]GN[S
@HWI-EAS443:3:17:694:1681#0/1
GAGAAAGCTCTTATCTCTTGTCTACTTCAAGCAGTAGTT
+HWI-EAS443:3:17:694:1681#0/1
ab^a`a`_`^a`a_a_a`_aa_a__a_a`_a`_]_`_Z_SS_
@HWI-EAS443:3:17:737:1053#0/1
GCTTGGAGAACTGTGATGAGAATGGGAGACCTTCACTAC
+HWI-EAS443:3:17:737:1053#0/1
aa[]a`aa]S^_a^NaU¥a__ZNGQ_¥Q^PRNWZVUT¥_¥
@HWI-EAS443:3:17:745:1790#0/1
CCGCATTTCTTCAATTAACCACCTTATTTCTCAAATTT
+HWI-EAS443:3:17:745:1790#0/1
abV`Y^`a`a`a`aaa_`_____^_____]`^`_`_]`_]`^X

+HWI-EAS443:3:18:1050:624#0/1
aa_b_aaaa^aaZ___aa`_Z`_]a`_a`_^Y_^__^_^`
@HWI-EAS443:3:18:1092:1426#0/1
GAAGGTAATGGTGAAATTTCTCCAACCTATTGCTCCCTCCT
+HWI-EAS443:3:18:1092:1426#0/1
aa_a`Xaa`¥^`_^aa___`^`_`_`a``__`V_]_]]
@HWI-EAS443:3:18:1124:1592#0/1
CCGCATTTCTTCAATTAACCACCTTATTTCTCAAATTT
+HWI-EAS443:3:18:1124:1592#0/1
abXPNUY`X¥]a`a`^_aXV¥^aa_[RPV¥Y¥^Y]a[ZGV
@HWI-EAS443:3:18:1134:953#0/1
GCCGCATTTCTTCAATTAACCACCTTATTTCTCAAATTT
+HWI-EAS443:3:18:1134:953#0/1
aaW_a___a]Z]^`H_Z]W`[¥_[a[Qa___[G_X[P¥^]_`
@HWI-EAS443:3:18:1170:1139#0/1
TCTCGCTGGATTCTCTTTCAAGATCCATTCCACGATTTG
+HWI-EAS443:3:18:1170:1139#0/1
U_S_]]abaa^baZW^]bab`Z]Sa`¥a]^¥^a]]WaaaU
@HWI-EAS443:3:18:1198:926#0/1
GCCGCATTTCTTCAATTAACCACCTTATTTCTCAAATTT
+HWI-EAS443:3:18:1198:926#0/1
a^_aVU[aZ]a_[___`^`^`][S^___`^^X¥^X^]]^WZ
@HWI-EAS443:3:18:1210:1964#0/1
GCCGCATTTCTTCAATTAACCACCTTATTTCTCAAATTT
+HWI-EAS443:3:18:1210:1964#0/1
a``]W_]_]]`_¥``_V]^SFV¥RXV][¥_W[¥Z¥YZ^ZZ
@HWI-EAS443:3:18:121:603#0/1
GGAGAACTGTGATGAGAATGGGAGACCTTCACTACCTCC
+HWI-EAS443:3:18:121:603#0/1
`baaab`aabSaaaa`b`¥a```Va``aaa]a``a`a_a^
@HWI-EAS443:3:18:1221:284#0/1
GCCGCATTTCTTCAATTAACCACCTTATTTCTCAAATTT
+HWI-EAS443:3:18:1221:284#0/1
^XOY]_a]]YaZXPYXa_[WTWY]Z¥Y¥`¥V¥^RY_WV[^
@HWI-EAS443:3:18:1311:1847#0/1
GAAAGCTCTTATCTCTTGTCTACTTCAAGCAGTAGTTGT
+HWI-EAS443:3:18:1311:1847#0/1
a^`_Y]b`abY`^a_¥aaXa_adW``_aa]SYaW__Y__Y
@HWI-EAS443:3:18:1341:426#0/1
ATGAGAATGGGAGACCTTCACTACCTCCAGAGCAGAAATG
+HWI-EAS443:3:18:1341:426#0/1
ZWWWZZ¥`¥]` [XZ^^ZQX]^DF^ZLRWW` `^`Y^a]^
@HWI-EAS443:3:18:1376:618#0/1
GCAAATCGCTTGCGGATATGCCAAAGGAAACAGTCTACCT
+HWI-EAS443:3:18:1376:618#0/1
`]`^`LJ[RYVaV]WP[aX]QT]]]^G[]VV^VWTRFNV
@HWI-EAS443:3:18:1384:1716#0/1
AACACGGTTCGAGTCTCTGAAAATATACAGAGATTCGCTT
+HWI-EAS443:3:18:1384:1716#0/1
ab_a]aa^_aa_a___^`_V]^_X_^Z^]]_`^`[_X^^

@HWI-EAS443:3:18:143:1430#0/1
CATATCCGCAAGCGATTTGCAGACAATGGATTGGGTGATG
+HWI-EAS443:3:18:143:1430#0/1
aaaaaaa`a`]¥¥_aTQNR[Z_[OURYZ[[QQ¥TWNJRMV
@HWI-EAS443:3:18:1444:1693#0/1
TGCCGCATTTCTTCAATTAACCACCTTATTTCCCTCAAATT
+HWI-EAS443:3:18:1444:1693#0/1
[SS_ab¥^^`aZYU¥aZ¥abV¥`VY`aab_a_V¥^Za`ba
@HWI-EAS443:3:18:1482:1349#0/1
GAAAGCTCTTATCTCTTGTCTACTTCAAGCAGTAGTTGT
+HWI-EAS443:3:18:1482:1349#0/1
[T_YYbU^`]T^]__a`Z`¥Z]a`¥T^]a_X^^Z[TY`[R
@HWI-EAS443:3:18:1484:427#0/1
ACTGGTTCATGCTCATGCCTAGGCAAAAGATAATAGGCCC
+HWI-EAS443:3:18:1484:427#0/1
a[_bba`__aa[^__^b^UYW_¥W_abaaa``¥`¥N¥X]`
@HWI-EAS443:3:18:1489:612#0/1
TGGTAACACGGTTCGAGTCTCTGAAAATATACAGAGATTC
+HWI-EAS443:3:18:1489:612#0/1
a``]aaaa_baY`ab`a¥a[_`a]___^]_¥W`a_`]¥Y¥
@HWI-EAS443:3:18:1502:483#0/1
GAAACTGTGATGAGAATGGGAGACCTTCACTACCTCCAGA
+HWI-EAS443:3:18:1502:483#0/1
a__a^ab_ba`b`^^aaa_VV_UT_]`X¥`VOVUJLaU
@HWI-EAS443:3:18:1522:1579#0/1
GAATGGGAGACCTTCACTACCTCCAGAGCAGAAAATGAAAA
+HWI-EAS443:3:18:1522:1579#0/1
U[aTS]Z0¥JRXXPX^``¥Q^YVNQOQ[X¥`SVVYX¥V
@HWI-EAS443:3:18:1535:559#0/1
CGCTTGGAGAAACTGTGATGAGAATGGGAGACCTTCACTA
+HWI-EAS443:3:18:1535:559#0/1
`aba``[]aaaaXa_V]a[[Xa_`R^a`_^UUY_`ZVNYT
@HWI-EAS443:3:18:153:28#0/1
CGCATTCTTCAATTAACCACCTTATTTCCCTCAAATTTCT
+HWI-EAS443:3:18:153:28#0/1
aaa`aa```aa``aa``a`a_^a`^a``_____Z_`^_^_
@HWI-EAS443:3:18:1542:49#0/1
TGCCGCATTTCTTCAATTAACCACCTTATTTCCCTCAAATT
+HWI-EAS443:3:18:1542:49#0/1
Xb¥]FY]``bV¥a`_abb_aSRZU]_XH`a_^X`___Yaa
@HWI-EAS443:3:18:1602:1359#0/1
GCGGCACAGATTGAAAGCGACAGAGAATAGTTTCGAACAA
+HWI-EAS443:3:18:1602:1359#0/1
aa`b_bbaaaabaaaaaaa``_a`aaa_a_]abXa_aX``
@HWI-EAS443:3:18:160:800#0/1
GCCGCATTTCTTCAATTAACCACCTTATTTCCCTCAAATTT
+HWI-EAS443:3:18:160:800#0/1
`a__ab^_]_]_aaa]`^aa`_Z_a`^W`aaa`aa``_a_]`
@HWI-EAS443:3:18:1626:137#0/1
GCCGCATTTCTTCAATTAACCACCTTATTTCCCTCAAATTT

+HWI-EAS443:3:18:1626:137#0/1
_T^[X_ZYW_] [Y[[^¥]XXXXZUZ_Z]ZZ^ZZVZZ]Z
@HWI-EAS443:3:18:1636:591#0/1
GAAACTGTGATGAGAATGGGAGACCTTCACTACCTCCAGA
+HWI-EAS443:3:18:1636:591#0/1
aaa`¥ab`a`aa`a^`aaa_]a^]W^^[`V__WV[^X]_Y
@HWI-EAS443:3:18:1677:1302#0/1
AAAATATACAGAGATTTCGCTTGGAGAACTGTGATGAGAA
+HWI-EAS443:3:18:1677:1302#0/1
`^aa_babaabaaaa_`b`a^aa^a`_X_¥¥¥^]a]_] [
@HWI-EAS443:3:18:1698:48#0/1
GGTTAATTGAAGAAATGCGGCACAGATTGAAAGCGACAGA
+HWI-EAS443:3:18:1698:48#0/1
_baab^bab`^b^`a]_K_`SXT^a_a_b^^_dW]_XX`^
@HWI-EAS443:3:18:1702:1940#0/1
TGGTAACACGGTTCGAGTCTCTGAAAATATACAGAGATTC
+HWI-EAS443:3:18:1702:1940#0/1
[b`IbT^babb^abb_a^ab`^__`^`_^a_^a]aS]^
@HWI-EAS443:3:18:1758:408#0/1
GGAGAACTGTGATGAGAATGGGAGACCTTCACTACCTCC
+HWI-EAS443:3:18:1758:408#0/1
aY^a[[_]¥^PaR¥VKTPY[W^WSWUWV^YYYYVWZULNQU
@HWI-EAS443:3:18:201:345#0/1
GCGAGACACTTAGAATGACAATTGCATCTGTACCTACTTC
+HWI-EAS443:3:18:201:345#0/1
aabab`abbabbaaabab`a_aa^`aaaab[a`aaa`a__
@HWI-EAS443:3:18:244:1046#0/1
TCGCTGGATTCTCTTTCAAGATCCATTCCACGATTTGTT
+HWI-EAS443:3:18:244:1046#0/1
T_X_ZW[_¥^a_a__^T__XXYX_OTYS_X¥`]Z^_]_^`
@HWI-EAS443:3:18:255:512#0/1
GAGCAATTGGGACAGAAATTTGAGGAAATAAGGTGGTTAA
+HWI-EAS443:3:18:255:512#0/1
aXY]aaY¥`USaTaaMJN¥_a]X][Y[]`V]ZOSRQ__W
@HWI-EAS443:3:18:273:390#0/1
GAATGGGAGACCTTCACTACCTCCAGAGCAGAAATGAAAA
+HWI-EAS443:3:18:273:390#0/1
`^ZZ_[]W`baba`aa^X`_[]]¥]P[`Z`Y^]___ZUW
@HWI-EAS443:3:18:284:1054#0/1
TGAGAATGGGAGACCTTCACTACCTCCAGAGCAGAAATGA
+HWI-EAS443:3:18:284:1054#0/1
`bababbbb`aaaabaabba¥aa]]b`aa``aa`[V¥aa_
@HWI-EAS443:3:18:326:2015#0/1
GCCGCATTTCTTCAATTAACCACCTTATTTCTCAAATTT
+HWI-EAS443:3:18:326:2015#0/1
Yb^HR^a[U_Z`_`bY¥_]GUb`[W[ZUIORVaa¥XPV^Z
@HWI-EAS443:3:18:331:1583#0/1
GAGGACCCCACTGCATTTTTGACATCCTCATAAGTATGT
+HWI-EAS443:3:18:331:1583#0/1
a`R`abbbbaabbba`__a`aaaaaa`````a[RY``^`

@HWI-EAS443:3:18:351:1379#0/1
CTGTGCCGATTTCTTCAATTAACCACCTTATTTCTCAA
+HWI-EAS443:3:18:351:1379#0/1
aaa`aaa`aaaaaaaaaaaaaa]`aa]a^`aa`a`_]a`
@HWI-EAS443:3:18:376:1471#0/1
GAAAGCTTCTTCTTGTCTACTTCAAGCAGTAGTTGT
+HWI-EAS443:3:18:376:1471#0/1
aaaaaaaaabaabaaaaa]a`aaaa`a`a_a__a`^`_]_
@HWI-EAS443:3:18:392:213#0/1
GCCGCATTTCTTCAATTAACCACCTTATTTCTCAAATTT
+HWI-EAS443:3:18:392:213#0/1
]ba`W]aaa`_aaa]a]a^¥X_`Y`aaa`]``_`_¥`____
@HWI-EAS443:3:18:436:441#0/1
AAACGAGAAAGCTTCTTCTTGTCTACTTCAAGCAGT
+HWI-EAS443:3:18:436:441#0/1
aa`a`_¥]Q]aaaa`_]aa````a^__`_]`_^____Y_`X
@HWI-EAS443:3:18:443:594#0/1
AATTTCTCCAATTTGCTCCCTCCTCAGTGAAAGCCCTT
+HWI-EAS443:3:18:443:594#0/1
aababaaabbaaaa`aaa`aa`aa_`aaa]^^_`a_]]^
@HWI-EAS443:3:18:446:697#0/1
CGCTTGGAGAACTGTGATGAGAATGGGAGACCTTCACTA
+HWI-EAS443:3:18:446:697#0/1
`b`ab__`a`¥aba]_ab[b`a`_`_`V`]^P[[aT[a
@HWI-EAS443:3:18:479:478#0/1
GTCGCTTTCAATCTGTGCCGATTTCTTCAATTAACCACC
+HWI-EAS443:3:18:479:478#0/1
a`abaaaa`a`^^__a_aa`_`aa__`aa`_`_^`^^
@HWI-EAS443:3:18:488:1282#0/1
AGAAACTGTGATGAGAATGGGAGACCTTCACTACCTCCAG
+HWI-EAS443:3:18:488:1282#0/1
^_aaXXbbaa]a[OX]_aaX[[][¥__^a_^SX`^ZX[____
@HWI-EAS443:3:18:505:346#0/1
GAATGGGAGACCTTCACTACCTCCAGAGCAGAAATGAAAA
+HWI-EAS443:3:18:505:346#0/1
a`abaaaaba_aa__a`a¥¥```_a```_`^__`a_^__
@HWI-EAS443:3:18:519:1040#0/1
GCCGCATTTCTTCAATTAACCACCTTATTTCTCAAATTT
+HWI-EAS443:3:18:519:1040#0/1
^bb^`bbabbbbaaaaa¥babaa[b`baaa`a`a`aaa^
@HWI-EAS443:3:18:530:1566#0/1
ATCAAGGAATGGGCATCACCCAATCCATTGTCTGCAAAT
+HWI-EAS443:3:18:530:1566#0/1
abb[]ba`_[a[^`^_a`a^S_a`^`^`^`_X`]_Na`a]
@HWI-EAS443:3:18:53:1653#0/1
GCGCGAAGTAGGTACAGATGCAATTGTCATTCTAAGTGTC
+HWI-EAS443:3:18:53:1653#0/1
aa¥_¥KXX^a^_V^`]`a`a_aH]^^[a[WH^W]_aUaTX
@HWI-EAS443:3:18:61:737#0/1
AGAAACTGTGATGAGAATGGGAGACCTTCACTACCTCCAG

@HWI-EAS443:3:19:1053:485#0/1
CCGCATTTCTTCAATTAACCACCTTATTTCTCAAATTT
+HWI-EAS443:3:19:1053:485#0/1
abb_^bababbabaaa`aaba`abb_baaaa`ba`b]a_
@HWI-EAS443:3:19:1084:1403#0/1
GAATGGAATGGTAACACGGTTCGAGTCTCTGAAAATATAC
+HWI-EAS443:3:19:1084:1403#0/1
ababba[a`ba¥bb_bb`a^aaaaa^]aaaa`a`aa``aZ
@HWI-EAS443:3:19:1090:1629#0/1
GAGAATGGGAGACCTTCACTACCTCCAGAGCAGAAATGAA
+HWI-EAS443:3:19:1090:1629#0/1
aaa]`aaaaa`V][aabaaa_``_aaaa_Xaa_``_`__
@HWI-EAS443:3:19:1129:61#0/1
GCCGCATTTCTTCAATTAACCACCTTATTTCTCAAATTT
+HWI-EAS443:3:19:1129:61#0/1
]VG¥_¥_¥¥¥_¥R]TZ``a_]a`^[]`ZJRaZXZSXBB
@HWI-EAS443:3:19:1148:727#0/1
GCCGCATTTCTTCAATTAACCACCTTATTTCTCAAATTT
+HWI-EAS443:3:19:1148:727#0/1
aaababbba`bbab`bb`aaaa`bbabbaaaa`baaa`a
@HWI-EAS443:3:19:115:733#0/1
CAGAAAGGTAGCGGAAGTAGGTACAGATGCAATTGTCAT
+HWI-EAS443:3:19:115:733#0/1
a^S_aaabSbbb^^aaaa[_^T``aaaabaa_aaa^^a`
@HWI-EAS443:3:19:1164:790#0/1
GCCGCATTTCTTCAATTAACCACCTTATTTCTCAAATTT
+HWI-EAS443:3:19:1164:790#0/1
_¥_ba_aaa`bb`a`aaa_^_a¥[a`^a_a_]a^a_X`a`
@HWI-EAS443:3:19:1169:1530#0/1
GTGATGAGAATGGGAGACCTTCACTACCTCCAGAGCAGAA
+HWI-EAS443:3:19:1169:1530#0/1
VU[WV^¥a[___Z[R[_¥`TX___a]a_]Z[¥[RW][[]]VZ
@HWI-EAS443:3:19:1169:231#0/1
GATGAGAATGGGAGACCTTCACTACCTCCAGAGCAGAAAT
+HWI-EAS443:3:19:1169:231#0/1
`aabab`aabaa_ba_`^aaa_a__Z`]]__Xa^]a]R]]
@HWI-EAS443:3:19:1188:312#0/1
CACAGATTGAAAGCGACAGAGAATAGTTTTCGAACAAATAA
+HWI-EAS443:3:19:1188:312#0/1
[`bbaabab¥ba_aa`a``]¥_`]^a]aba`]a`^bUaa
@HWI-EAS443:3:19:120:763#0/1
GAGAATGGGAGACCTTCACTACCTCCAGAGCAGAAATGAA
+HWI-EAS443:3:19:120:763#0/1
````]a`^a```\_``\_`a^a\_Y]a`a`\_Z\_\_a`TYSa`¥¥  
@HWI-EAS443:3:19:1214:1512#0/1  
TACAGAGATTTCGCTTGGAGAACTGTGATGAGAATGGGAG  
+HWI-EAS443:3:19:1214:1512#0/1  
a`\_]a`\_Wa\_`]aa`\_`\_^`\_`\_\_aY]]\_[]\_][]\_¥\_]¥  
@HWI-EAS443:3:19:1216:1284#0/1  
CCGCATTTCTTCAATTAACCACCTTATTTCTCAAATTT

+HWI-EAS443:3:19:1216:1284#0/1  
aabbbbbb`bbbbbbbbbb`^`babbbbaabba``baba  
@HWI-EAS443:3:19:1222:1133#0/1  
AGAAACTGTGATGAGAATGGGAGACCTTCACTACCTCCAG  
+HWI-EAS443:3:19:1222:1133#0/1  
\_[W\$`a`[\_U\_W\_a`\$`W`\$`a`\_]`\$`Z`W`Z]^`^`^`X`]a`W`a  
@HWI-EAS443:3:19:1247:1558#0/1  
TGATGAGAATGGGAGACCTTCACTACCTCCAGAGCAGAAA  
+HWI-EAS443:3:19:1247:1558#0/1  
aa]ab`Z```\_UT```\_`a]\_\_\_\_\_a`^```^`X`^S`\$`a`^`^`\_  
@HWI-EAS443:3:19:1248:312#0/1  
GCGGCACAGATTGAAAGCGACAGAGAATAGTTTCGAACAA  
+HWI-EAS443:3:19:1248:312#0/1  
a]```[\_`Ya]Z`\_Y][T`\$`\_XXW`[\_`\$`\$`[R`\$`Y`\$`U`\$`Z`W`Y`U`Y`Q`X`B  
@HWI-EAS443:3:19:1251:1656#0/1  
CTGTGATGAGAATGGGAGACCTTCACTACCTCCAGAGCAG  
+HWI-EAS443:3:19:1251:1656#0/1  
abbababbababaaa`aaa\_aaaab`ab`\_`aQaa`]`aa  
@HWI-EAS443:3:19:1266:898#0/1  
GTCGCTTTCAATCTGTGCCGATTTCTTCAATTAACCACC  
+HWI-EAS443:3:19:1266:898#0/1  
a`\_`a`aaa`a`a`aa`^`\_`a`^`aaa`a`\_`\_]```\_`^`W`Z]  
@HWI-EAS443:3:19:1306:1184#0/1  
TGAGAATGGGAGACCTTCACTACCTCCAGAGCAGAAATGA  
+HWI-EAS443:3:19:1306:1184#0/1  
aaaaaaaa`a`^`aa`\_```\_`a`\_```VU`]```\_`^`^`^`]\_\_\_\_`\$`  
@HWI-EAS443:3:19:1322:1860#0/1  
AGAAACTGTGATGAGAATGGGAGACCTTCACTACCTCCAG  
+HWI-EAS443:3:19:1322:1860#0/1  
aaa`a`\_`aa`a`\_```a`^`^`]a`\_```^`]LY`\_`]Y`\_`XU]WX^^  
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GCCGATTTCTTCAATTAACCACCTTATTTCCCTCAAATTT  
+HWI-EAS443:3:19:1327:1117#0/1  
a`\$`U```HT]a`\_`aa`^`^`a`\_`^`XW`^`Z`^`\_]`\_`^`ZW`\_`X`]]][`\_`]  
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+HWI-EAS443:3:19:1363:1894#0/1  
`aabba`aaabb`aaabaaaa`[aaa`a`b`aa[aaY`\_`\_`  
@HWI-EAS443:3:19:1371:1396#0/1  
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+HWI-EAS443:3:19:1371:1396#0/1  
[[WZX`U`\$`][TOZS`[W`^`Z`\$`N`Z`Q`Z`W`^``TPPKW[XaQQZI`\$`  
@HWI-EAS443:3:19:1380:277#0/1  
GGCAACACCCTTGGCCTCGATATCGAAACAGCCACTCTTG  
+HWI-EAS443:3:19:1380:277#0/1  
abaaaa`H[aa`a]\_`\_`^`aa`a`W`\_`\_`\_`Z`\_`aT`\$`Y`\$`\_`T`\$`\_]`\_`  
@HWI-EAS443:3:19:138:578#0/1  
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+HWI-EAS443:3:19:138:578#0/1  
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@HWI-EAS443:3:19:142:194#0/1  
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+HWI-EAS443:3:19:142:194#0/1  
aa`a\_aP]TZW^]Va¥H`X]]S[\_¥VR]^]\_¥VP`TV[B  
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+HWI-EAS443:3:19:1438:954#0/1  
ab\_^[^¥¥\_W^aba\_a[a`]^aa`a`]QOLO\_]\_aTZTX[  
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+HWI-EAS443:3:19:1498:1419#0/1  
ab^^Zbb]\_[bababbabbaaba¥Z`^ab^`a¥`\_b]aa^  
@HWI-EAS443:3:19:1510:94#0/1  
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+HWI-EAS443:3:19:1510:94#0/1  
V`aa[bb`bba^ababbaaabUaabba`bS`\_bUb\_a\_``  
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+HWI-EAS443:3:19:1532:1823#0/1  
a[]^P``ZY^a[P[^GJLVVZRX[VUYWUZV[M¥UVSBBB  
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+HWI-EAS443:3:19:1571:39#0/1  
aab`abab\_a[aR¥I\_a\_aUbT^a]ZaVa¥Wa]LZ][M]Z  
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+HWI-EAS443:3:19:1596:1828#0/1  
a`^W^^\_U\_R\_]\_V]^[\_[¥RHV]XW^UZ]VXYXXOWZ  
@HWI-EAS443:3:19:1687:1021#0/1  
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+HWI-EAS443:3:19:1687:1021#0/1  
`\_ZZ`aaa`V]Y`\_PV^V`¥Z]a^Z[TY[LW^UZTZZ¥BB  
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GAGAATGGGAGACCTTCACTACCTCCAGAGCAGAAATGAA  
+HWI-EAS443:3:19:1690:1060#0/1  
a`\_\_^`\_a]¥a^MTX`\_`¥`]PT^ZXQ]^\_Z^]ZQVZ[TU  
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+HWI-EAS443:3:19:1734:345#0/1  
a\_G\_Va\_ba``aaaa`TT`¥aa`a\_aa`]YYRa`aa[[`  
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+HWI-EAS443:3:19:173:1542#0/1  
`\_b\_a\_a]`b^0\_`^^]]`¥`aaY\_R^`^Za]¥T\_`XLR  
@HWI-EAS443:3:19:1753:243#0/1  
AAACGAGAAAGCTCTTATCTCTTGTCTACTTCAAGCAGT  
+HWI-EAS443:3:19:1753:243#0/1  
¥`^^]V^]¥a`]\_QY``aaaabba¥a[\_¥U¥\_Ya^UG\_\_W  
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+HWI-EAS443:3:19:184:777#0/1  
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@HWI-EAS443:3:19:200:2003#0/1  
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+HWI-EAS443:3:19:200:2003#0/1  
]]^bbaZa¥aZ[S[^^^Va\_a^^¥`\_\_\_¥\_]\_\_¥\_`[Z^\_  
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+HWI-EAS443:3:19:206:382#0/1  
a^^^R`aa]\_`\_a^aZW¥```¥a[\_^\_^^`ZU^Z^]]  
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+HWI-EAS443:3:19:249:969#0/1  
a`aaaa\_\_aaaa\_`\_a\_]`a]^\_[X`a\_\_[Z`Z\_aZ^^^  
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GGAGAACTGTGATGAGAATGGGAGACCTTCACTACCTCC  
+HWI-EAS443:3:19:282:195#0/1  
aaaa\_]`aa\_a``a\_a\_``aa`^a\_[^Z\_^\_¥¥\_T¥¥^W  
@HWI-EAS443:3:19:283:245#0/1  
GAGAAGGTAATGGTGAATTTCTCCAATATTGCTCCCTC  
+HWI-EAS443:3:19:283:245#0/1  
a\_\_\_aadWa^a\_^]\_\_\_\_\_a`\_\_^`\_^`\_`\_\_\_\_]UV]^Z  
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+HWI-EAS443:3:19:29:1277#0/1  
V¥\_bab\_T``aaYbWZLbbbbbbWW`\_]WU\_\_PFYa```Z  
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GAAAATATACAGAGATTCGCTTGGAGAACTGTGATGAGA  
+HWI-EAS443:3:19:31:1423#0/1  
a^)`a\_aa]aaa[]Q^``¥aY\_`^¥[[SW\_^`Z`ZZ\_U¥R  
@HWI-EAS443:3:19:337:1188#0/1  
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+HWI-EAS443:3:19:337:1188#0/1  
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+HWI-EAS443:3:19:375:1411#0/1  
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@HWI-EAS443:3:19:404:1038#0/1  
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+HWI-EAS443:3:19:404:1038#0/1  
a``aaaabbabab]baaab\_aaaa`\_aZaa`\_aa\_`¥¥  
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+HWI-EAS443:3:19:442:1270#0/1  
abababbaabaaaaaa`aaaaabaaa`aa`aaa\_`a`\_a  
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GATGAGAATGGGAGACCTTCACTACCTCCAGAGCAGAAAT  
+HWI-EAS443:3:19:460:1872#0/1  
\_ [b[\_bb¥Q¥aS[aH]aa`]^¥¥aaa]a``\_\_VXX[]][`

@HWI-EAS443:3:19:509:694#0/1  
GAAACTGTGATGAGAATGGGAGACCTTCACTACCTCCAGA  
+HWI-EAS443:3:19:509:694#0/1  
]ZW^a\_QN\_`W^P[^Q\_^\\$L[aYV]`\_ULQ]`][^\$[ZR  
@HWI-EAS443:3:19:560:1762#0/1  
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+HWI-EAS443:3:19:560:1762#0/1  
`aZ`^b`UYN\_]\_^Wabbba`^W\_aa````\_abbaaaaa]]  
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GTAACACGGTTCGAGTCTCTGAAAATATACAGAGATTTCGC  
+HWI-EAS443:3:19:592:1248#0/1  
aaab^aaaaX^aaaaWa\_]aa\_\_`\_\_`^`]^\_^\_^\_^]\_^  
@HWI-EAS443:3:19:612:1702#0/1  
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+HWI-EAS443:3:19:612:1702#0/1  
aaaaabaVa\_a]`\_`a```aa\_a\_a]`a``a`a^]VRKW\_  
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+HWI-EAS443:3:19:61:1072#0/1  
`[\$aa\$`aaaa\_L`X^ab]XYa`\$aaabaaaa`a[\$`\_a^  
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+HWI-EAS443:3:19:631:1728#0/1  
abb^a`]Kb`````aa`a`\_`Y`YMa^a\_\_a\_\_\_\_U\_\_\_\_  
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+HWI-EAS443:3:19:638:1726#0/1  
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+HWI-EAS443:3:19:642:1030#0/1  
`Zaa\_X\_[]ZXaaaaaa\_aaa`\_]`[aa`\_a```^`]Z`]  
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+HWI-EAS443:3:19:642:474#0/1  
^^^`\_`a^T\_]`^a^\_[aZT[]\_a`VQ\_\_`]F[WT[\_UVa`  
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+HWI-EAS443:3:19:657:1005#0/1  
aaaaS^a`aZa]V^a`^\_a```\_`]\_\_^\_^a\_[a]`Y^\_`  
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+HWI-EAS443:3:19:661:470#0/1  
abab`bbabbaababaabbabbabbaaaaaaaaabaa\_a`  
@HWI-EAS443:3:19:687:182#0/1  
GCCGCATTTCTTCAATTAACCACCTTATTTCTCAAATTT  
+HWI-EAS443:3:19:687:182#0/1  
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+HWI-EAS443:3:19:691:1055#0/1  
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+HWI-EAS443:3:19:730:1543#0/1  
\_`^`aaa^a\_a`abaa]`¥¥P`T`aabXL^` ` `aaPRV0]  
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+HWI-EAS443:3:19:789:478#0/1  
`\_aWYaa\_ba\_a^ba\_` `a\_a\_aa` ]^a^Y`aa\_\_aaa¥[  
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+HWI-EAS443:3:19:803:1431#0/1  
^X]U^YRUbb[J`b¥SZQ¥ZUaaaaa¥aS\_a\_a]a¥0` `X  
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+HWI-EAS443:3:19:808:1448#0/1  
WTT\_SaZ][HP]VZ^¥[ ]a[W]X^ZYOPVSZX^^¥Y]\_\_[  
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+HWI-EAS443:3:19:851:1239#0/1  
QX^¥[\_RX\_]K][` `a]` `ZZ]` ` `\_\_aaPQ\_\_a\_a`S^  
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+HWI-EAS443:3:1:102:539#0/1  
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+HWI-EAS443:3:1:1042:264#0/1  
a`b`baaa\_`V^]`aabaaa[a`¥` `]b`aa`ZTY]^BBB



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aZ[\_`¥a`G`^Xa\_aa``Q][Uaa\_``aSN¥\_\_\_\_]a`B  
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+HWI-EAS443:3:1:1131:380#0/1  
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+HWI-EAS443:3:1:1197:1619#0/1  
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+HWI-EAS443:3:1:1205:191#0/1  
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+HWI-EAS443:3:1:124:1442#0/1  
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+HWI-EAS443:3:1:1265:1348#0/1  
]ab\_ab\_b`^b`]aaaab]]a^¥^`ba`aaaa[^]`Yaab  
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+HWI-EAS443:3:1:1382:703#0/1  
aaaa^V¥ZaaaaaSS]\_a]\_Za^¥``\_N)`R`¥a^ZaW\_B  
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+HWI-EAS443:3:1:1411:1737#0/1  
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+HWI-EAS443:3:1:1481:1030#0/1  
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a`a\_aa`^a^aa\_a^\_\_\_a\_\_\_\_\_^`\_\_^X`\_X\_]¥^BB  
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`R¥a¥VbbVbb[aa[X\_b`aaaXaa^[Yb^`^\_X\_WX`\_V  
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aaa^aa]¥`^a^`a`\_a`\_Z[`a\_\_[````\_`a`\_]\_\_V^  
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+HWI-EAS443:3:20:749:381#0/1  
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+HWI-EAS443:3:20:780:855#0/1  
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+HWI-EAS443:3:20:782:2014#0/1  
`¥^X`¥][\_bbaW\_ab]^\_\_VYS^a\_]W^\_GGQ^a\_]FT  
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GAGCCAAGGGTGTTCCTCTTCTTTTAAGGACTTTTGA  
+HWI-EAS443:3:20:795:1674#0/1  
^```\_`bb`X^MaUa]`bZbbabaaaaabaaa]Xa`S]a`  
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+HWI-EAS443:3:20:804:420#0/1  
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+HWI-EAS443:3:20:80:1286#0/1  
a^]¥Y\_a\_\_\_aa`VV\_[Z\_[\_]aaaZ\_V`^^\_`^]]UOQ  
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+HWI-EAS443:3:20:817:1914#0/1  
a\_V\_b^`aYX\_a^aSa^]XY\_`Q]a`X`\_]a¥`^ZRY^a  
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+HWI-EAS443:3:20:829:212#0/1  
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+HWI-EAS443:3:20:864:206#0/1  
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+HWI-EAS443:3:20:880:1923#0/1  
abba]a^ZV`Zb^a`aabaabXXXa`baaY^\_a\_aa\_aaa  
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GAATGGGAGACCTTCACTACCTCCAGAGCAGAAATGAAAA  
+HWI-EAS443:3:20:88:954#0/1  
a^^\_aaaabaaaa\_aaaa`a\_`]`aZ```a\_\_\_a`Z^`^  
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+HWI-EAS443:3:20:901:1932#0/1  
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a]b``\_a\_a\_`a^a]]`aX]]`aX]Y\_Y^¥\_^X]`X\_X^X  
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+HWI-EAS443:3:20:904:894#0/1  
a\_\_V\_Z¥¥`aaa[aa`¥QNaWV\_YR¥\_a\_\_W¥YVN\_T¥YV  
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+HWI-EAS443:3:20:927:927#0/1  
Z¥XOY`Za^^^^XaU\_aaUYOZRVX^]aa][ZTU\_^^^]  
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\_bb\_Q¥a]aaa\_`][\_`\_SZ¥a]VV^`^W\_Z^`^VVWV  
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aa`¥\_]a\_Y]abbba]^b^DT`\_ab]`a``W[[aa\_a`[a  
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+HWI-EAS443:3:20:946:854#0/1  
`]^[ZZa`^\_Z]]XT\_YYZ\_a`¥`a¥¥\_\_¥`\_^Z``¥ZX

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+HWI-EAS443:3:20:953:1040#0/1  
^a^a]ZYW]^\_[\_]Z^a\_^a\_\_aZGUPTW`UXYU`¥WV[  
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+HWI-EAS443:3:20:958:33#0/1  
a[¥[\_Y`\_[]^`aZ]^`[]a`XaY\_]YYUYXW]¥ZZR  
@HWI-EAS443:3:20:965:163#0/1  
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+HWI-EAS443:3:20:965:163#0/1  
`\_¥\_OWW]]SV\_Q¥Z^Z^]¥QNO]\_T\_a`WGQZXXV¥SZY  
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+HWI-EAS443:3:20:980:1196#0/1  
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+HWI-EAS443:3:21:1034:596#0/1  
a\_``\_\_^a\_aaa\_^]a\_^\_¥`\_`\_¥`\_]^\_]\_\_XU[ZS  
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+HWI-EAS443:3:21:1059:1467#0/1  
a`^aa``[^\_a\_\_```a\_]```\_\_\_\_\_]\_\_^^\_Z\_\_Z\_\_^  
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+HWI-EAS443:3:21:1075:1415#0/1  
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GAATGGGAGACCTTCACTACCTCCAGAGCAGAAATGAAAA  
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`^aa`\_YN]¥]Za`\_`\_a`\_`\_a`\_`[[S\_\_\_\_Z^\_\_\_\_^^¥  
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^^ab]bbbb^abab]abaaaaba`babaaa`abbba`aaa  
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+HWI-EAS443:3:21:1205:339#0/1  
a``aaaa¥a^¥¥\_]\_\_W\_^W¥¥^VZ\_Y\_W¥\_Y¥U\_UZ¥Y¥  
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+HWI-EAS443:3:21:1294:1311#0/1  
\_X¥` `abaaa`aaaa\_a\_a` `a`\_a\_]`\_`\_`\_`\_Z\_Z^  
@HWI-EAS443:3:21:1330:83#0/1  
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+HWI-EAS443:3:21:1330:83#0/1  
ab`Wa]abaaVaZ^SV^O[U]YFORUX\_ZZ\_\_X\_WHWZZV  
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+HWI-EAS443:3:21:1373:903#0/1  
abaaa\_ab\_aaa` `a[^aa`^¥a]OT\_^]\_^N^RYU]  
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+HWI-EAS443:3:21:1379:1788#0/1  
\_XZOWWX^Z^Z]U]]¥0\_\_\_ZY[¥ZZ^^ZX¥[\_\_\_`^¥V]  
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a^aaaaa`\_aaa^aX^a^a^a`^\_\_\_¥a`\_Z^¥W\_U]WZZ  
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a[abW^^`a^aY]\_\_\_Z]aYWW\_]Z^Z^]OV\_HOZ^W^UR  
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+HWI-EAS443:3:21:1782:1818#0/1  
aa` ` `a`aa`¥Y`\_a` `]\_a^[\_` `Y\_\_\_]aX`\_]\_\_X\_] ]

@HWI-EAS443:3:21:213:343#0/1  
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+HWI-EAS443:3:21:221:203#0/1  
aaaaaaaaa^a^^]a`aa`]^\_aaa``\_a`\_\_a^a`\_^\_\_  
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+HWI-EAS443:3:21:252:1307#0/1  
¥bb\_U\_WaZU`WW¥[a\_ZZL[`]X¥QRRaR¥aX`0¥^[VV  
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+HWI-EAS443:3:21:258:1613#0/1  
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+HWI-EAS443:3:21:297:27#0/1  
abaaabG`¥DZ\_YX`M[U]\_a]]\_T\_\_OXR^\_¥`X\_[Y^Y  
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ab`\_a`^a`\_aaa`a`\_a`Y`a`^`\_¥`\_]`X]W\_Z^]`^  
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+HWI-EAS443:3:21:339:444#0/1  
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+HWI-EAS443:3:21:344:198#0/1  
aba`babab`\_a\_\_a`aa\_aaa`a`\_a`]a`\_a`\_^`^^`\_  
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abaaaaaaaa`\_a\_aaaa\_aaaa\_\_^aa^`\_`a^`\_`\_]`  
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+HWI-EAS443:3:21:369:696#0/1  
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+HWI-EAS443:3:21:444:590#0/1  
a\_a```bb`]a¥aa`ab`\_`\_a`\_\_aY\_a\_\_a`\_\_a\_\_  
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+HWI-EAS443:3:21:500:966#0/1  
a^`b`^Z^`ZFU^V`K\_a^¥\_YU[UX\_^Y[[¥U`TXT`ZS  
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abb¥PPN`\_^a\_]`\_Ta\_IaaaG^]`^YFX\_\_\_UFT\_¥S  
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+HWI-EAS443:3:21:533:773#0/1  
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a`a^`a\_a`\_a\_a^`\_aa\_]`\_^^^][^^^]UV\_^XZ\_Z^  
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+HWI-EAS443:3:21:588:745#0/1  
aaba\_aaaa`a\_a\_a`a\_\_`a`\_]\_a^``]\_\_^]\_aZ`^^  
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+HWI-EAS443:3:21:590:969#0/1  
`a`Z\_TT`\_`aaZ^¥[a\_a^\_a¥`\_\_\_\_\_]`\_¥[^\_Z]^  
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GAGAATGGGAGACCTTCACTACCTCCAGAGCAGAAATGAA  
+HWI-EAS443:3:21:610:1140#0/1  
a\_`[aabaa\_a`\_a``aa`\_`\_\_\_\_`aW`\_\_\_\_]^`\_a\_^  
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GCCGCATTTCTTCAATTAACCACCTTATTTCTCAAATTT  
+HWI-EAS443:3:21:615:232#0/1  
abaaaaaab`baa`a`aa`aaa^a\_`aa]`\_a^`\_a`^\_  
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+HWI-EAS443:3:21:616:1919#0/1  
aaa\_T`\_]`Ya`OXa^baV\_[Y\_`a`]\_\_]`\_`aXZUXVV

@HWI-EAS443:3:21:622:351#0/1  
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+HWI-EAS443:3:21:622:351#0/1  
aabaa`aa]aaaa`a`a\_\_a\_\_]\_^\_\_aQ]¥\_W]\_¥WZ]  
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+HWI-EAS443:3:21:628:881#0/1  
Yabb`\_bbbbabb^ababaaaaaaaa`b`a^aaaaa`aaa  
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TGGAGAACTGTGATGAGAATGGGAGACCTTCACTACCTC  
+HWI-EAS443:3:21:701:588#0/1  
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GAGCAATTGGGACAGAAATTTGAGGAAATAAGGTGGTTAA  
+HWI-EAS443:3:21:705:615#0/1  
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+HWI-EAS443:3:21:73:1501#0/1  
a\_[\_^]¥]¥]Z¥\_YT[UY¥`\_\_`ZO¥\_\_[Y¥¥\_]S¥`V\_  
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+HWI-EAS443:3:21:824:1915#0/1  
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+HWI-EAS443:3:21:862:2027#0/1  
aaab`\_[]^Sa`\_\_`¥ZUUaS`aUJLPU\_^T[N^] []\_Z  
@HWI-EAS443:3:21:867:1635#0/1  
ATTACACTGAAGTTTCGCTTTCAGTACTATGTTCTTTTCCA  
+HWI-EAS443:3:21:867:1635#0/1  
S¥W]a`^Y^¥NYMW]]][\_XVVQT\_¥\_^]¥S] []] ^Z^  
@HWI-EAS443:3:21:86:609#0/1  
AGAACTGTGATGAGAATGGGAGACCTTCACTACCTCCAG  
+HWI-EAS443:3:21:86:609#0/1  
]aYaaaaaZa¥¥a\_aXNX]\_^¥Y^]^[\_`\_]¥W\_^\_YR¥  
@HWI-EAS443:3:21:896:432#0/1  
GTCGCTTTCAATCTGTGCCGATTTCTTCAATTAACCACC  
+HWI-EAS443:3:21:896:432#0/1  
aaa\_aa`aa`aa\_a^a`a\_\_\_\_aa^a\_\_\_\_aa`^^¥\_^Z  
@HWI-EAS443:3:21:906:871#0/1  
GAAACTGTGATGAGAATGGGAGACCTTCACTACCTCCAGA  
+HWI-EAS443:3:21:906:871#0/1  
\_R\_\_abb`a`ZZZ[aa^][\_^ [Y^X^a\_\_a`^^^Ua\_]`  
@HWI-EAS443:3:21:933:1966#0/1  
GCCGCATTTCTTCAATTAACCCACCTTATTTCCCTCAAATTT

+HWI-EAS443:3:21:933:1966#0/1  
a]OSa`]\`aWZYa`V[\`aWWW¥S^\_^\_\_\_\_X¥`]\\_`^`SR  
@HWI-EAS443:3:21:963:576#0/1  
AGATTTCGCTTGGAGAACTGTGATGAGAATGGGAGACCTT  
+HWI-EAS443:3:21:963:576#0/1  
ab`a`a`¥`aaaa\_¥XaZ¥\_N\_Z[¥\_\_ZZL]X`R¥[SY]^  
@HWI-EAS443:3:21:969:1313#0/1  
TGAGAATGGGAGACCTTCACTACCTCCAGAGCAGAAATGA  
+HWI-EAS443:3:21:969:1313#0/1  
\_\_U¥XZS`Wa^\_aV]¥I^`aa^W\_¥]]][Z¥WJaa[LU\_a\_  
@HWI-EAS443:3:21:983:74#0/1  
GCGAGACACTTAGAATGACAATTGCATCTGTACCTACTTC  
+HWI-EAS443:3:21:983:74#0/1  
^W`\_aV\_\_aba[aY\_aaaQa`a\_a][aU`\_ZX[TZ`S[\_X  
@HWI-EAS443:3:22:1019:1341#0/1  
TGAGAATGGGAGACCTTCACTACCTCCAGAGCAGAAATGA  
+HWI-EAS443:3:22:1019:1341#0/1  
\_`PWYZ¥TWZY]^¥[\_aa\_]¥^ZZ`V[¥`ZZU]`\_^Z  
@HWI-EAS443:3:22:1046:385#0/1  
CTCCCATTCTCATCACAGTTTCTCCAAGCGAATCTCTGTA  
+HWI-EAS443:3:22:1046:385#0/1  
¥a\_^`ba`ba`a^a`bbYbbbb`U\_`\_abaa]¥a]abYb  
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CCGCATTTCTTCAATTAACCACCTTATTTCTCAAATTTTC  
+HWI-EAS443:3:22:104:150#0/1  
aaY[Z^\_IY\_^^a`U`^a`a`\_aaa\_a\_]`\_^^ZP¥^`^  
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CCGCATTTCTTCAATTAACCACCTTATTTCTCAAATTTTC  
+HWI-EAS443:3:22:1080:1751#0/1  
]TY`XNQZa`¥`WG[¥WPX[X\_V]YQ\_^[Q[\_]WXT^VZ\_  
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GAGAATGGGAGACCTTCACTACCTCCAGAGCAGAAATGAA  
+HWI-EAS443:3:22:1104:203#0/1  
a\_a\_a\_a\_[`a`]\_\_^UaY`[UG^]UY\_X^Y^[UX^[\_UX  
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TAAGGTGGTTAATTGAAGAAATGCGGCACAGATTGAAAGC  
+HWI-EAS443:3:22:121:59#0/1  
`[aa¥Ma\_TY`aa`a¥aY[aaV`^`\_`a`\_a^Z^][¥]^  
@HWI-EAS443:3:22:1251:558#0/1  
GAGGACCCCAACTGCATTTTTGACATCCTCATAAGTATGT  
+HWI-EAS443:3:22:1251:558#0/1  
a`\_a\_N\_\_aP^M^a]\_a`aZ[\_]^a`^]^]\_`SS]Z\_^^U  
@HWI-EAS443:3:22:1311:1594#0/1  
CTTGGAGAACTGTGATGAGAATGGGAGACCTTCACTACC  
+HWI-EAS443:3:22:1311:1594#0/1  
aaaaaaaaaa`aa]aa`a`\_\_a\_a\_\_\_\_]Z]\_]X\_XX`U]  
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ATTTCTCCAATTTGCTCCCTCCTCAGTGAAAGCCCTTA  
+HWI-EAS443:3:22:1334:641#0/1  
\_aaa`b`b`aababba`aZ\_\_a`^a\_a][a]X¥]ZXX^\_^



@HWI-EAS443:3:22:133:866#0/1  
AAACTGTGATGAGAATGGGAGACCTTCACTACCTCCAGAG  
+HWI-EAS443:3:22:133:866#0/1  
aZ]aa^P^a¥`¥a`\_]`Y\_\_]\_\_\_\_\_V^^X]]^X\_\_Y\_  
@HWI-EAS443:3:22:1343:824#0/1  
TGAGAATGGGAGACCTTCACTACCTCCAGAGCAGAAATGA  
+HWI-EAS443:3:22:1343:824#0/1  
aaa\_Jaa`[^`^b`[[a\_\_aY\_aV\_`¥^SVY\_W^a]X\_aa[  
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+HWI-EAS443:3:22:1375:758#0/1  
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@HWI-EAS443:3:22:138:1144#0/1  
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+HWI-EAS443:3:22:138:1144#0/1  
aZaaaa`\_[`aaa^[`]\_\_\_`\_a\_\_`[Y`^`^^^WZZ^^V  
@HWI-EAS443:3:22:1390:1041#0/1  
AGAAACTGTGATGAGAATGGGAGACCTTCACTACCTCCAG  
+HWI-EAS443:3:22:1390:1041#0/1  
a`^`\_]a[H¥]]aaa^Waa`¥Z\_]Z¥¥J[]Y[XTWZ]]\_  
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GGTTTCGAGTCTCTGAAAATATACAGAGATTCGCTTGGAGA  
+HWI-EAS443:3:22:1403:1341#0/1  
aa]aY^`aSU\_\_a`\_\_\_a\_a^^Y`\_\_\_^MUW`ZX¥\_^]WV  
@HWI-EAS443:3:22:1425:953#0/1  
GTCGCTTTCAATCTGTGCCGCATTTCTTCAATTAACCACC  
+HWI-EAS443:3:22:1425:953#0/1  
a`\_a\_a`aa`¥``a¥¥]\_a]\_``¥``]\_\_`\_\_^]]\_ZW  
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GCCGAGATCAAAAGTCCTTAAAAGGAAGAGGCAACACCCT  
+HWI-EAS443:3:22:147:651#0/1  
`aab^a\_aa`\_a\_aW\_`a`a\_^Z^`\_\_\_Y`aa`\_^\_\_\_W^  
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CTGTGATGAGAATGGGAGACCTTCACTACCTCCAGAGCAG  
+HWI-EAS443:3:22:1507:609#0/1  
a\_b\_aa]]V`])`abaa\_b`\_]a\_\_\_Y\_\_\_[`TNZaXa[Ya  
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GAGCAATTGGGACAGAAATTTGAGGAAATAAGGTGGTTAA  
+HWI-EAS443:3:22:1523:255#0/1  
¥ZY]]abbb\_X^[a\_WU]\_\_ab`a\_]Q]aXa¥QXa`^a\_W  
@HWI-EAS443:3:22:1544:527#0/1  
GCCGCATTTCTTCAATTAACCACCTTATTTCTCAAATTT  
+HWI-EAS443:3:22:1544:527#0/1  
aYNZR]]`NTa`[Z^`[]`^^ZTXZ]\_a¥^YX^^]^\_[Y  
@HWI-EAS443:3:22:1567:357#0/1  
CGCTTGGAGAAACTGTGATGAGAATGGGAGACCTTCACTA  
+HWI-EAS443:3:22:1567:357#0/1  
^aaa^]\_aaaa`\_aa[a^`a[aY\_\_aa^Xa¥VRY\_]^Z^\_  
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TGAGAATGGGAGACCTTCACTACCTCCAGAGCAGAAATGA

+HWI-EAS443:3:22:160:132#0/1  
`¥W`]aa\_b`]\_\_U\_\_\_bZa[[\_S]`^YNaYXGQXZW`U  
@HWI-EAS443:3:22:1611:679#0/1  
GAGAATGGGAGACCTTCACTACCTCCAGAGCAGAAATGAA  
+HWI-EAS443:3:22:1611:679#0/1  
¥`a``Z^¥Ta¥U¥^`Ya`a\_YOY¥P^¥¥YVZZ^Z^^^¥¥  
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+HWI-EAS443:3:22:1616:192#0/1  
aaa^\_aa^^¥`ZU\_^\_a`\_\_Z\_^ZR\_^X]UZZVVZMFQZ  
@HWI-EAS443:3:22:1622:484#0/1  
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+HWI-EAS443:3:22:1622:484#0/1  
a`] [V`^`]^X^a¥]Y\_aa^`ZaXTX^XV]Y\_^VV[PVT]Y  
@HWI-EAS443:3:22:1624:430#0/1  
GAAAATATACAGAGATTCGCTTGGAGAACTGTGATGAGA  
+HWI-EAS443:3:22:1624:430#0/1  
aaa^\_aaaa]aa`b\_aa\_a\_aaaa]`]^`^a`¥a]]]Y\_]`  
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GAATGGGAGACCTTCACTACCTCCAGAGCAGAAATGAAAA  
+HWI-EAS443:3:22:163:1512#0/1  
`TW`\_¥`\_aaba][baa\_a`UW\_aa^a\_aaa^Q[¥\_`^`a]  
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+HWI-EAS443:3:22:1648:2043#0/1  
`bbbbabbabbababbbb`a```aaaaba`aaaaaaaa`a^  
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+HWI-EAS443:3:22:1653:658#0/1  
\_bb\_bb\_abaaYY^OT¥a`^`aa\_\_RW[[X`UaVVXUO]T\_  
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GTCGCTTTCAATCTGTGCCGATTTCTTCAATTAACCACC  
+HWI-EAS443:3:22:166:1686#0/1  
\_R`^`a\_aa`]^ [b`]U¥a]`aa` `` `` `^`][`\_`^`^`\_]X  
@HWI-EAS443:3:22:1670:854#0/1  
TGAGAATGGGAGACCTTCACTACCTCCAGAGCAGAAATGA  
+HWI-EAS443:3:22:1670:854#0/1  
aa^XZ\_]bWZWZ[RS\_\_a`\_`a¥PTRN]^`URP]a[^^\_]\_  
@HWI-EAS443:3:22:1678:996#0/1  
CTTGAATGGAATGGTAACACGGTTTCGAGTCTCTGAAAATA  
+HWI-EAS443:3:22:1678:996#0/1  
aaaaa¥a`aaaa`a`\_bababba\_X¥]\_^]`^`]```aa\_a  
@HWI-EAS443:3:22:1720:1495#0/1  
GGAGAACTGTGATGAGAATGGGAGACCTTCACTACCTCC  
+HWI-EAS443:3:22:1720:1495#0/1  
a`S`a¥aQ[a^`W\_\_\_\_][XNXW¥^aZSMW[V^SX[QNLQT  
@HWI-EAS443:3:22:1737:1402#0/1  
GCTTGGAGAACTGTGATGAGAATGGGAGACCTTCACTAC  
+HWI-EAS443:3:22:1737:1402#0/1  
aaa\_\_\_\_]\_]\_] [ ]aY¥¥^`V¥¥YU]^¥WZ[WUWXMVUXZN

@HWI-EAS443:3:22:1743:780#0/1  
GAGAACTGTGATGAGAATGGGAGACCTTCACTACCTCCA  
+HWI-EAS443:3:22:1743:780#0/1  
a¥\_Y\_^V\_aV\_X^`R[[V]^Y]S]YTPWYRSSQXYVXPSW  
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GAGAATGGGAGACCTTCACTACCTCCAGAGCAGAAATGAA  
+HWI-EAS443:3:22:188:66#0/1  
a``\_\_aaaa¥\_^\_¥\_^Z\_¥¥\_Y¥¥¥¥VZW\_WU^SW¥¥]W¥  
@HWI-EAS443:3:22:197:1632#0/1  
AGACTGTTTCCTTTGGCATATCCGCAAGCGATTTGCAGAC  
+HWI-EAS443:3:22:197:1632#0/1  
a^[aaa[``Xa^ZZ]\_a`U\_X`]`a\_YWUUXZ\_RWYX]]V  
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abbbbababbbbaabbbbaabaabbbbabaaab]abaa  
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+HWI-EAS443:3:22:259:582#0/1  
aaaaab¥^`a`\_aa^a`a`\_[`\_ZS^S¥]^YZ¥^ZY[\_¥^  
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+HWI-EAS443:3:22:25:1330#0/1  
aaaaaaaa\_aaaaaa`aaaa`\_`¥`\_\_a`\_```V^`^  
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+HWI-EAS443:3:22:260:1056#0/1  
\_ZZaaaZ`a`a`aa¥^a`a`[^\_^\_\_\_\_`\_a`\_^\_]\_^V\_  
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+HWI-EAS443:3:22:261:1251#0/1  
`W\_abaab`baaaabb\_aaaa```a\_a\_a`Zba[aaa``  
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+HWI-EAS443:3:22:27:889#0/1  
aaba][a\_aa][^¥a[ZZSzaaa]T]\_\_]``X¥P\_^T^a  
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+HWI-EAS443:3:22:28:251#0/1  
aba`Y`]aa`a`^`aa^\_aa`aa^````\_``\_`]Z^]`  
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GCGGCACAGATTGAAAGCGACAGAGAATAGTTTCGAACAA  
+HWI-EAS443:3:22:297:1446#0/1  
\_`baaab\_`b`ba]aaa`¥\_Y]]`Va\_a^Uaaaa[`]a  
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GGTTAATTGAAGAAATGCGGCACAGATTGAAAGCGACAGA  
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aa`aaaaaba\_aaaaa\_a\_aa\_aaa^\_a`````^`\_\_a\_  
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a¥aa`a^^\_a[a\_`]X¥a[`a\_`]^a`YaYOV\_`\_Q\_LP  
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+HWI-EAS443:3:22:352:1993#0/1  
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+HWI-EAS443:3:22:382:1723#0/1  
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+HWI-EAS443:3:22:409:1493#0/1  
aba¥N¥a\_`aaaa`aa\_a`\_\_a\_`aa\_aa`\_a\_a\_aa`]a  
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GAGAGCAATTGGGACAGAAATTTGAGGAAATAAGGTGGTT  
+HWI-EAS443:3:22:412:460#0/1  
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@HWI-EAS443:3:22:425:457#0/1  
GAGCAATTGGGACAGAAATTTGAGGAAATAAGGTGGTTAA  
+HWI-EAS443:3:22:425:457#0/1  
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+HWI-EAS443:3:22:435:1120#0/1  
a\_a\_`a`¥^aa[ ]\_\_bba^aa`\_a\_\_\_^\_[``YY\_\_\_\_\_]-  
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CGAAGTAGGTACAGATGCAATTGTCTTCTAAGTGTCTCG  
+HWI-EAS443:3:22:471:598#0/1  
a`¥^b`bb^\_babbaaba`aaa\_aaaaa^]a`^a`a`a\_  
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+HWI-EAS443:3:22:492:120#0/1  
abaabaaaaa`a\_\_`^`^a\_\_`\_a¥\_`Y\_X`^]\_XV]]\_  
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+HWI-EAS443:3:22:572:522#0/1  
aaa\_a\_`\_`aaa\_a^^\_a\_`aY\_^\_[^^Y^`]\_V\_]\_U\_X  
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+HWI-EAS443:3:22:582:73#0/1  
a\_aa\_\_\_aa`\_`\_V\_aS`¥`\_]\_\_^^^\_\_^^[\_[^][^\_[]  
@HWI-EAS443:3:22:602:142#0/1  
TGCCGATTTCTTCAATTAACCACCTTATTTCTCAAATT  
+HWI-EAS443:3:22:602:142#0/1  
¥¥XGWRYaZZ^^W^S[ZYZQ\_a]U][\_a`]Z¥]a[¥^\_\_  
@HWI-EAS443:3:22:610:102#0/1  
AGAACTGTGATGAGAATGGGAGACCTTCACTACCTCCAG  
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aba^a\_`aZ`S¥[Z\_S`TZ]\_]\_^P`]Y^]\_[UPZZUZ]

@HWI-EAS443:3:22:679:1902#0/1  
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`]]ZS`[GY¥`aY[\_aaa\_aa\_`[bRR\_U]aWQa\_`[UVa  
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+HWI-EAS443:3:22:69:562#0/1  
^\_bYbb\_QYQU`]^\_`^`\_aa]N^`[``aaa`a[QX^QY  
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GTGCGTTTCAATCTGTGCCGATTTCTTCAATTAACCACC  
+HWI-EAS443:3:22:702:1406#0/1  
aa\_\_\_a`aa`\_^¥\_]``^Z^`^`\_¥`Y^`\_`]]`]^  
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+HWI-EAS443:3:22:712:359#0/1  
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+HWI-EAS443:3:22:71:1749#0/1  
abaaT]a\_aa\_[¥Y`a`a\_^W[Y¥`a`aa`\_a¥]\_aa`\_^  
@HWI-EAS443:3:22:765:1446#0/1  
TGAGAATGGGAGACCTTCACTACCTCCAGAGCAGAAATGA  
+HWI-EAS443:3:22:765:1446#0/1  
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@HWI-EAS443:3:22:767:1654#0/1  
GCGGCACAGATTGAAAGCGACAGAGAATAGTTTCGAACAA  
+HWI-EAS443:3:22:767:1654#0/1  
a\_[Za[]\_``^`]^`\_a[^[^X]]\_\_`YN\_]U[X\_^[RH`]  
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+HWI-EAS443:3:22:786:2036#0/1  
a``a]Z`[````X\_a`a¥b¥a\_[¥aZ`a\_aa^aXa^ab[\_  
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CAATCGCACGCAAAGAGGGCCTATTATCTTTTGCCTAGGC  
+HWI-EAS443:3:22:819:1383#0/1  
abaaab\_aabbabaa`\_¥Zaa`aaa^`]a``]^`\_`\_aY\_  
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CCGCATTTCTTCAATTAACCACCTTATTTCTCAAATTT  
+HWI-EAS443:3:22:842:1956#0/1  
¥``bb^¥babbbaab\_baabbb\_abbbbbab\_aa^ab\_Xa  
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+HWI-EAS443:3:22:849:316#0/1  
W\_b^`¥S\_``a`b\_[aaab`a\_a[X]aY\_aa^Z^Z`\_`a  
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AGAAACTGTGATGAGAATGGGAGACCTTCACTACCTCCAG  
+HWI-EAS443:3:22:87:1020#0/1  
aaaaba]\_U`X`aaaX`aaa`\_]\_````\_aa\_\_W\_^¥T¥\_  
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+HWI-EAS443:3:22:881:461#0/1  
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+HWI-EAS443:3:22:892:1317#0/1  
`a¥FQ`^W]Y¥]]QOY]¥[^[YQ[TZ[a¥QY`^]YQT]^\_  
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+HWI-EAS443:3:22:940:1314#0/1  
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aa`aaaa`abaaa\_]\_a`\_]\_`aa`\_`\_a[a\_\_^`a[[`]  
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+HWI-EAS443:3:23:1087:686#0/1  
a¥G`P]\_]XPa\_[^`\_\_`Y\_\_VLXLV\_aV^S[\_VRN]\_]\_  
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ab[aaV^S^]baZXT^Ja\_]TY`M`a]]`^\_\_]`a`^^  
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aba\_b`baabbbabababb`aababa`b\_a\_\_aa``b\_^a  
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+HWI-EAS443:3:23:126:1740#0/1  
^`Y[^a^a^aR`P`WOXZ^b^a^[]LXT]]]Y^`Z[a]W]  
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abaaXQOX[\_][Y`\_\_aP`[\_RUQ]G[T]YRW`S`\_][\_]  
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+HWI-EAS443:3:23:1282:1777#0/1  
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+HWI-EAS443:3:23:1370:1786#0/1  
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]\_aaa¥U`¥[\_[VVPab¥¥\_W\_`OY][`Q`Y^O[QIP\_`U  
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aabbab`aabb`\_a`\_¥^¥\_`\_`\_^S\_V^]aV`R]\_X^^`  
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a\_b`Y]aaa\_[S^a`^Y[]^`¥X]YX[¥U\_Y\_TMVWY]]  
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Z\_\_[^X^a\_a\_UZa^aabaabZOR\_a\_]`Y]aaaa¥^  
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aa`Y\_S[`¥QU]]\_VZZSZ\_VZ`aXEUP`^[V^`a\_\_XFN  
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¥aaa\_aaaaa`abaaa`aa`\_aa`^aa`\_`a\_a¥^a^  
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+HWI-EAS443:3:23:457:447#0/1  
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+HWI-EAS443:3:23:561:2045#0/1  
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RU\_X¥^¥`\_`baaV[[^]¥Za]]Y¥^aaV]WP``S`]`aa  
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ab`\_^\_]`\_`RYY`\_a`Z][`\_`\_a¥a[^]`Ua]X`a]^

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+HWI-EAS443:3:23:679:925#0/1  
\_K\_¥X\_a^Yaa]aZY^aa`aaaaZY[`Y[Z¥^U^`[Q]^`  
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+HWI-EAS443:3:23:822:1577#0/1  
a\_Y\_a^`\_aa\_¥Z]Z¥^`\_Sa^^Z[]¥aa^X\_¥P^`\_a\_  
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+HWI-EAS443:3:23:895:297#0/1  
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+HWI-EAS443:3:23:934:1727#0/1  
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+HWI-EAS443:3:24:1135:402#0/1  
a^``Z\_\_aaXbba^aa`a\_a`aZS\_``a\_\_TX\_¥aWZ`\_]\_  
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+HWI-EAS443:3:24:1164:257#0/1  
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+HWI-EAS443:3:24:129:1387#0/1  
a`aa[^ba`0]a¥]V^`a`^SUaa`^\_aa\_^`aa`  
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+HWI-EAS443:3:24:1394:1016#0/1  
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+HWI-EAS443:3:24:1445:1281#0/1  
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+HWI-EAS443:3:24:1493:600#0/1  
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a[^\_bbbb\_aa`a\_a`¥\_Zaa¥a\_\_a^aRaL]^`]a\_a\_\_  
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\_]aYa)`b^WY\_\_Z]\_aa`^¥a¥PY][aJYVZV^[]aI``  
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a`bb\_bba`baa`^¥]a`\_a\_¥` ``¥^^^]]\_a\_`\_\_`Y  
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\_`¥` `baZX\_`U¥VX^^\_`^aaa` ``S^`a\_aa`]¥[^\_  
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aaaba^^^`aa`aa^a`a¥` `` `` `` `` `` `` `\_\_XL^`W\_  
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+HWI-EAS443:3:25:1219:1707#0/1  
\_^a^`abb^^]a`^aaaab¥a`T][Z\_` [Q]\_V\_\_ [Y¥  
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aaaa\_a`Z`\_ba`M`aa`aX¥`a\_b^aWW[]UVUU^[L[a  
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+HWI-EAS443:3:25:1472:820#0/1  
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Kabaa[^aa[b\_\_a`b[abbababab[^abaa\_b\_]\_^Y^  
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a`¥`aab]aaaaaY`][\_]`a]^]V\_\_a\_\_\_a`\_`\_]`¥TY  
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a\_W\_`R\_[\_XX\_TWN]^]^ZZ]OW\_W[UXWXVYZWXU]XZ  
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¥[^[aW`b\_abN]`b`R`R]aVa`a\_\_^\_a[a`aaaa\_\_  
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OYbaba]bb`baabbbbabababbbabbbbababab`\_  
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¥P¥aY`]^b]a`Y```a\_]QYZ[Y[\_¥\_]GX`^\_\_Q^¥^  
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+HWI-EAS443:3:26:435:1295#0/1  
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+HWI-EAS443:3:26:450:1833#0/1  
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+HWI-EAS443:3:26:487:1797#0/1  
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Z¥bb]``[^Z`a`VRV\_\_ZW¥X`\_`¥\_¥`a`Z^\_¥^\_¥  
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+HWI-EAS443:3:26:630:424#0/1  
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]\_\_a]H]^ZZNVY\_aa^`Z¥aQUT`RXU¥UGYL]aS\_]`  
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a`^a^aaa\_a`a]\_Xa`aa^a\_`^a\_a]`a]a^\_`]^Z^a  
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+HWI-EAS443:3:27:1374:1003#0/1  
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+HWI-EAS443:3:27:1390:842#0/1  
aaaa\_]aaa[a^a\_¥`]\_a]`^^\_¥\_\_^]`^¥Z]]VZ]Z  
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a\_a`^\_a\_\_aa^`\_]\_a[XYW\_Z`\_a\_Sa\_[\_`^`\_]UGX  
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+HWI-EAS443:3:27:375:542#0/1  
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+HWI-EAS443:3:27:410:392#0/1  
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+HWI-EAS443:3:27:498:1611#0/1  
^¥\_`bab]VUJL[Y]V\_\_\_^aZYPZU`\_YU\_\_^V[QTNNQ  
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+HWI-EAS443:3:27:528:1992#0/1  
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+HWI-EAS443:3:27:618:1092#0/1  
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¥^\_W\_U\_]Z]``baZOW¥XZZ\_¥`ZU¥TMYJY\_aRWF[VT  
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+HWI-EAS443:3:27:662:1370#0/1  
a[\_¥¥aa]ba\_bb`aa`^V^¥a\_a`a\_a\_\_X\_a\_]Y`[^a  
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+HWI-EAS443:3:27:880:505#0/1  
a\_\_¥¥^a`a`aa]\_^a\_\_`^^Z]```\_`\_`^a\_`^`^^\_  
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ab\_XZ¥\_Z`WY^`YY\_\_Z```^X]a`^Y¥]]PV]]]X  
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+HWI-EAS443:3:28:1074:828#0/1  
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+HWI-EAS443:3:28:1236:1348#0/1  
¥Vbbb[`ab`TN¥aa\_T\_a^`ab¥^`\_a^`\_``]`^a\_a]]Y  
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+HWI-EAS443:3:28:1444:1309#0/1  
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+HWI-EAS443:3:28:1449:835#0/1  
aab`aabba\_a\_¥W`^`a\_\_\_\_\_]^`\_Z`¥a]^aX^]aa^]  
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+HWI-EAS443:3:28:1465:1338#0/1  
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a`^a[abba]aaZaabaaa¥[^`ba`aaa\_\_a[a\_]a[\_  
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+HWI-EAS443:3:28:1701:721#0/1  
K`^\_Yb^bb\_bb[babbabbaabaabb`]VW`bab`U\_bI  
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+HWI-EAS443:3:28:170:272#0/1  
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+HWI-EAS443:3:28:1719:1817#0/1  
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+HWI-EAS443:3:28:19:553#0/1  
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+HWI-EAS443:3:28:26:60#0/1  
aa`aa¥aaa^`¥[ `\_\_` `\_\_`\_]`\_`^\_]`]]`\_RWW]^V  
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+HWI-EAS443:3:28:328:833#0/1  
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+HWI-EAS443:3:28:333:1984#0/1  
a\_a` `^^` `a`ZabbZb¥^a^Zaaaaaaaa`Ya`a\_a]P`U

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`aVY\_¥`a\_\_b\_]`aa`a]VRYa]`\_¥b\_^ba^a^Q¥`  
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+HWI-EAS443:3:28:441:227#0/1  
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+HWI-EAS443:3:28:452:1534#0/1  
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Wa[\_W\_a`¥a[`¥`\_Y\_a^^]X¥^]a]\_]Z^U¥\_YW  
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+HWI-EAS443:3:29:1290:1571#0/1  
¥SabaX`\_aVV¥b^TNZZU`Sa`W`YZ]XXYXS]ZY\_T^^  
@HWI-EAS443:3:29:1292:1878#0/1  
AGAAACTGTGATGAGAATGGGAGACCTTCACTACCTCCAG  
+HWI-EAS443:3:29:1292:1878#0/1  
``abb[^`\_[aa`Q`aaaa\_]`\_aYZaa¥FZ¥Zaa]V¥^\_\_  
@HWI-EAS443:3:29:1292:785#0/1  
GGTCTCCATTCTCATCACAGTTTCTCCAAGCGAATCTCT  
+HWI-EAS443:3:29:1292:785#0/1  
¥^¥Y`\_YS\_^^¥M¥a^abaa[OX`WJY]OZZ^¥JTPWBBB  
@HWI-EAS443:3:29:1296:657#0/1  
GGAGAACTGTGATGAGAATGGGAGACCTTCACTACCTCC  
+HWI-EAS443:3:29:1296:657#0/1  
\_aS^X` `Xa¥DZX[``^`Q¥ZZW\_YXV[SY]X`S¥[NUZBB



@HWI-EAS443:3:29:1298:743#0/1  
CTCCCATTCTCATCACAGTTTCTCCAAGCGAATCTCTGTA  
+HWI-EAS443:3:29:1298:743#0/1  
]`b`babbbbbbba\_bab`aa\_ba\_[\_\_\_\_`[bba^  
@HWI-EAS443:3:29:1328:1007#0/1  
GCCGCATTTCTTCAATTAACCACCTTATTTCTCAAATTT  
+HWI-EAS443:3:29:1328:1007#0/1  
a^Z[GYZaa\_VRUYX]¥^^[\_Z`ZSZ¥TZ¥Z[SSH]WW  
@HWI-EAS443:3:29:1336:310#0/1  
GTGCGTTTCAATCTGTGCCGATTTCTTCAATTAACCACC  
+HWI-EAS443:3:29:1336:310#0/1  
a`a[\_a`a`\_]\_\_^X]\_]\_a`\_]`YZYa``WG¥ZO  
@HWI-EAS443:3:29:1337:918#0/1  
GTGATGAGAATGGGAGACCTTCACTACCTCCAGAGCAGAA  
+HWI-EAS443:3:29:1337:918#0/1  
^`b]Y`a\_aabaY[a\_^\_\_a]\_]`X\_\_Y^\_\_]\_ZZ^^V  
@HWI-EAS443:3:29:133:663#0/1  
CGCGAAGTAGGTACAGATGCAATTGTCATTCTAAGTGTCT  
+HWI-EAS443:3:29:133:663#0/1  
aba`[a`W`]`Ua`aa`^`a`\_]`\_\_`^`\_V\_Y\_]`  
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GGAGAACTGTGATGAGAATGGGAGACCTTCACTACCTCC  
+HWI-EAS443:3:29:1410:1266#0/1  
aa`a\_\_a¥aa[\_`a¥`Z\_Z^Z^]VYV¥[W^UZ\_VTWUB  
@HWI-EAS443:3:29:1431:760#0/1  
CCCAACTGCATTTTTGACATCCTCATAAGTATGCCTGGA  
+HWI-EAS443:3:29:1431:760#0/1  
abbbbabab`bbbbbaabbaaba`baabaabaaa`ab`a  
@HWI-EAS443:3:29:1528:1590#0/1  
ATGAGAATGGGAGACCTTCACTACCTCCAGAGCAGAAATG  
+HWI-EAS443:3:29:1528:1590#0/1  
a]a`]Yaa]bbaa`P¥\_\_a[ab^U\_\_\_\_`¥U`\_a^T\_\_\_\_  
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+HWI-EAS443:3:29:1533:1443#0/1  
abab`^bb`baaa]``a`aa^a`W¥\_\_Y`^^\_Y^^\_Y^\_  
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GCCGCATTTCTTCAATTAACCACCTTATTTCTCAAATTT  
+HWI-EAS443:3:29:1536:1989#0/1  
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+HWI-EAS443:3:29:1539:830#0/1  
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@HWI-EAS443:3:29:1600:730#0/1  
TTCGATATCGAGGCCAAGGGTGTGCCTCTTCCTTTAAG  
+HWI-EAS443:3:29:1600:730#0/1  
aaabaaa`aa`a\_U¥`^^`\_W\_]`[]Y\_V`V¥`V¥`¥]V  
@HWI-EAS443:3:29:1602:456#0/1  
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+HWI-EAS443:3:29:1602:456#0/1  
aaaaa][[ab][aa\_abW\_V[¥Q\_X\_Y`REUTZZ\_^]R  
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TGAAACGAGAAAAGCTCTTATCTCTTGTCTACTTCAAGCA  
+HWI-EAS443:3:29:1604:914#0/1  
aaaaa]b\_b¥\_S`^W\_a^\_Z`\_a\_a¥`\_a\_[a\_`^\_I¥  
@HWI-EAS443:3:29:1636:528#0/1  
GAAACTGTGATGAGAATGGGAGACCTTCACTACCTCCAGA  
+HWI-EAS443:3:29:1636:528#0/1  
aaaa\_ab¥b\_ab]a\_`\_`\_]a\_VX`\_]`\_]\_]\_X^]\_X  
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ATGAGAATGGGAGACCTTCACTACCTCCAGAGCAGAAATG  
+HWI-EAS443:3:29:1643:967#0/1  
^abbbabbbbbbbaabbbbaaba¥aaaababaab`\_aaa  
@HWI-EAS443:3:29:166:809#0/1  
AGAAACTGTGATGAGAATGGGAGACCTTCACTACCTCCAG  
+HWI-EAS443:3:29:166:809#0/1  
a\_`JXaab]a`b^b`a]``aaa^`aa^^`a`\_\_VS[W`  
@HWI-EAS443:3:29:1694:888#0/1  
GAATGGGAGACCTTCACTACCTCCAGAGCAGAAATGAAAA  
+HWI-EAS443:3:29:1694:888#0/1  
``\_baXa\_b[``\_¥\_NMMKSYNS[TSKRQLKXBBBBBBBBB  
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+HWI-EAS443:3:29:1753:88#0/1  
ab`R¥aaabb`bWa\_aaaaVP`PMa\_^aaW\_a\_a\_\_aa  
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+HWI-EAS443:3:29:176:729#0/1  
a\_bUaa\_^baabba`\_aa`aa`aa^`aaaaa\_aab`\_a\_  
@HWI-EAS443:3:29:247:748#0/1  
GCCGCATTTCTTCAATTAACCACCTTATTTCTCAAATTT  
+HWI-EAS443:3:29:247:748#0/1  
abbbbabaaabbaaaaaab`aaaaaaaaaaaaaaaa`a`\_  
@HWI-EAS443:3:29:262:600#0/1  
GCGGCACAGATTGAAAGCGACAGAGAATAGTTTCGAACAA  
+HWI-EAS443:3:29:262:600#0/1  
YP\_[`a`\_aa^ZZV¥]\_\_Z`¥^P]aU`PP¥X^`\_`XMX[^  
@HWI-EAS443:3:29:268:15#0/1  
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+HWI-EAS443:3:29:268:15#0/1  
[aaaa`aa`\_`aa`aaaaa\_aa`\_a`aaaY\_¥^¥Z[[S[B  
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TGAGAATGGGAGACCTTCACTACCTCCAGAGCAGAAATGA  
+HWI-EAS443:3:29:295:1293#0/1  
aaabaa`^a`\_a¥]aaaaaaaa`aaaa`\_a`aWaa¥`\_`  
@HWI-EAS443:3:29:330:1449#0/1  
GCCGCATTTCTTCAATTAACCACCTTATTTCTCAAATTT  
+HWI-EAS443:3:29:330:1449#0/1  
`\_aWb\_aaba`ab`X`aaaaabaa`]a`\_bb``]^R\_\_^

@HWI-EAS443:3:29:395:381#0/1  
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+HWI-EAS443:3:29:395:381#0/1  
^aaaa`aaaaa^a`aa\_a`aaaaaa\_\_`aaaa[\_`a  
@HWI-EAS443:3:29:407:744#0/1  
GGTTAATTGAAGAAATGCGGCACAGATTGAAAGCGACAGA  
+HWI-EAS443:3:29:407:744#0/1  
P\_]`^`YY`¥^\_SZ¥\_\_\_`bb\_b^X^aab`\_LYa^[\_`aa  
@HWI-EAS443:3:29:422:1105#0/1  
GGAGAACTGTGATGAGAATGGGAGACCTTCACTACCTCC  
+HWI-EAS443:3:29:422:1105#0/1  
V¥¥`a`¥Yaa`a]a]\_`aaaaaa\_a``aaa\_aaa¥a`  
@HWI-EAS443:3:29:434:1871#0/1  
TGCCGCATTTCTTCAATTAACCACCTTATTTCTCAAATT  
+HWI-EAS443:3:29:434:1871#0/1  
aabbaaab]abaaaabaabba\_ba^`a`\_`aa\_baa\_a`  
@HWI-EAS443:3:29:448:562#0/1  
GAATGGGAGACCTTCACTACCTCCAGAGCAGAAATGAAAA  
+HWI-EAS443:3:29:448:562#0/1  
aaa`aaa\_aaaaa`aa`a¥a`\_\_`\_\_^`\_\_\_\_\_¥\_\_¥  
@HWI-EAS443:3:29:465:1647#0/1  
TGAGAATGGGAGACCTTCACTACCTCCAGAGCAGAAATGA  
+HWI-EAS443:3:29:465:1647#0/1  
[a[\_`^`\_XY`\_WaWa`a[\_`^abba\_]\_`\_aaaZO\_PZ[a  
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AGAACTGTGATGAGAATGGGAGACCTTCACTACCTCCAG  
+HWI-EAS443:3:29:471:621#0/1  
a\_S`\_`\_baYaa`\_`a`aa^[]a]\_a\_]aa^\_\_`]\_\_\_¥  
@HWI-EAS443:3:29:487:952#0/1  
TTCCTTTGGCATATCCGCAAGCGATTTGCAGACAATGGAT  
+HWI-EAS443:3:29:487:952#0/1  
`b\_\_aTH`¥bbaaa`\_[aaa¥Z`a\_\_aa`\_`^`\_¥UV]QZX  
@HWI-EAS443:3:29:500:475#0/1  
GAAACTGTGATGAGAATGGGAGACCTTCACTACCTCCAGA  
+HWI-EAS443:3:29:500:475#0/1  
ab`\_`aab\_aaababa]aa`a`aaa\_a\_\_a`aa`^`^a`\_`\_`  
@HWI-EAS443:3:29:504:1012#0/1  
GAAACTGTGATGAGAATGGGAGACCTTCACTACCTCCAGA  
+HWI-EAS443:3:29:504:1012#0/1  
aabVaaa\_bbaa]\_Ra\_aa`[aaaa^`aaa`a`^`^a`V]  
@HWI-EAS443:3:29:518:1524#0/1  
GCCGCATTTCTTCAATTAACCACCTTATTTCTCAAATTT  
+HWI-EAS443:3:29:518:1524#0/1  
a\_a[][\_Y\_YZ`aY`V¥]\_]\_^`¥baY\_KZ]aYa\_\_\_]OHYR¥  
@HWI-EAS443:3:29:542:641#0/1  
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+HWI-EAS443:3:29:542:641#0/1  
aabb¥^`a^VaT^`WaW\_Y]a`a^^¥^¥\_\_\_]`Ya`\_S]Y[  
@HWI-EAS443:3:29:558:269#0/1  
GATGAGAATGGGAGACCTTCACTACCTCCAGAGCAGAAAT

+HWI-EAS443:3:29:558:269#0/1  
aaa`ab`abbaa`aa^^\_\_Za\_\_a]^\_\_U\_`\_`¥\_`^]\_^  
@HWI-EAS443:3:29:566:903#0/1  
GAAACTGTGATGAGAATGGGAGACCTTCACTACCTCCAGA  
+HWI-EAS443:3:29:566:903#0/1  
a`babb\_`bbaba`abaaaa`aa\_aaaaaabaaaaa``  
@HWI-EAS443:3:29:602:1066#0/1  
CTAAGGGCTTTCACTGAGGAGGGAGCAATAGTTGGAGAAA  
+HWI-EAS443:3:29:602:1066#0/1  
Y¥X¥W\_aYU`^bbb]¥R¥^a`a[Y[aaba^`S`\_J]`S\_]`  
@HWI-EAS443:3:29:610:147#0/1  
CGCTTGGAGAACTGTGATGAGAATGGGAGACCTTCACTA  
+HWI-EAS443:3:29:610:147#0/1  
ababa`^aba` `aab\_a`aa`a\_`aa`a\_`\_¥YWZ[`UZB  
@HWI-EAS443:3:29:764:1165#0/1  
GAGAATGGGAGACCTTCACTACCTCCAGAGCAGAAATGAA  
+HWI-EAS443:3:29:764:1165#0/1  
^W\_aaaaa¥]] [V¥` `aaa\_` [ `aa`aU` \_\_`¥¥\_\_` [\_  
@HWI-EAS443:3:29:76:1084#0/1  
CGCTTGGAGAACTGTGATGAGAATGGGAGACCTTCACTA  
+HWI-EAS443:3:29:76:1084#0/1  
aaa` `a`aaQZa\_aa¥`a^`¥`\_¥\_\_` `¥\_¥^`¥\_\_`^¥\_  
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ACCATTACCTTCTCTTCCAGGACATACTTATGAGGATGTC  
+HWI-EAS443:3:29:76:860#0/1  
^aa]aa[aaaaaaaa`aaaa\_aaa` `a\_¥\_[TX`^\_\_XZ  
@HWI-EAS443:3:29:783:927#0/1  
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+HWI-EAS443:3:29:783:927#0/1  
a\_a`P]RR^YY]YSS\_UV¥]^]RQTX]^]S]] ` [VSX[Z]  
@HWI-EAS443:3:29:790:1225#0/1  
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+HWI-EAS443:3:29:790:1225#0/1  
aYaabab^bYK^`a`aa`\_a[a\_\_]\_\_`\_\_\_\_\_^\_`^` [Z  
@HWI-EAS443:3:29:824:1453#0/1  
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+HWI-EAS443:3:29:824:1453#0/1  
aV[X`\_V\_SSZb^`a¥U[ `T` `]WSHOX[P^XY¥I\_Y¥aB  
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TAAATAAGCTGAAACGAGAAAGCTCTTATCTCTTGTCTA  
+HWI-EAS443:3:29:854:563#0/1  
\_YRRYISabbaTYOH`a`RV^Y^]]R\_S`QUPZY`WXN\_B  
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GCCGCATTTCTTCAATTAACCACCTTATTTCTCAAATTT  
+HWI-EAS443:3:29:873:418#0/1  
aaaa\_aa\_\_a` ` `a\_aa\_a\_`\_`a`\_^`\_`\_\_a\_\_  
@HWI-EAS443:3:29:902:41#0/1  
GCGCGAAGTAGGTACAGATGCAATTGTCATTCTAAGTGTC  
+HWI-EAS443:3:29:902:41#0/1  
aaaYaYT` [ `a`X^^]]V\_\_YV^`]]V]^\_YU]\_^YWZYB

@HWI-EAS443:3:29:910:542#0/1  
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+HWI-EAS443:3:29:910:542#0/1  
aaaa`abaaa`\_\_`aaa\_¥a]^a\_`a`\_^a\_`^aa`\_  
@HWI-EAS443:3:29:933:1106#0/1  
AGAAACTGTGATGAGAATGGGAGACCTTCACTACCTCCAG  
+HWI-EAS443:3:29:933:1106#0/1  
Y\_¥WW\_¥\_\_Y`X`]aYT^aY[]aZ[U¥]R¥`^X[b¥[LO¥  
@HWI-EAS443:3:29:935:120#0/1  
TGAGAATGGGAGACCTTCACTACCTCCAGAGCAGAAATGA  
+HWI-EAS443:3:29:935:120#0/1  
ababaaaab\_\_a`^`\_¥`Q`^^R\_¥Z^a¥`\_]`WY¥^\_¥  
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aaba`aaaabaaaaaa`^^^\_a`a`a`[aaaa\_aa\_\_  
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+HWI-EAS443:3:2:1001:1104#0/1  
a^aY\_a]\_`G]]`\_\_VQ]`¥]R^XYV\_WR]Y\_V00^YYY  
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+HWI-EAS443:3:2:1053:680#0/1  
aaab\_aaaa\_ba^`[a`a`Z`TR`a^aa`ZX`\_`¥]`\_`  
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GTCTCTGAAAATATACAGAGATTCGCTTGGGAGAACTGTG  
+HWI-EAS443:3:2:1064:1204#0/1  
\_PT`S\_¥X¥\_a^[ZLYYV\_X[MRaWZ^RZTULP¥W^BBB  
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ATTACACTGAAGTTTCGCTTTCAGTACTATGTTCTTTTCCA  
+HWI-EAS443:3:2:1091:1788#0/1  
]Z\_a]`][`¥]¥Y`\_¥]X\_`^\_]`\_`Y`P`^\_]`[R]  
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+HWI-EAS443:3:2:1174:949#0/1  
aaaa¥Q\_a^a`ab][]^aaaa^a\_VY^\_\_`\_]\_T]]W]^`  
@HWI-EAS443:3:2:1177:704#0/1  
TGGGAAACAAATCGTGAATGGATCTTGAAGAGGAATCC  
+HWI-EAS443:3:2:1177:704#0/1  
abaaaaa`aaa\_a^aaa`aa```\_aaa\_\_^a`\_`\_^]U  
@HWI-EAS443:3:2:1188:1721#0/1  
GAGAAACTGTGATGAGAATGGGAGACCTTCACTACCTCCA  
+HWI-EAS443:3:2:1188:1721#0/1  
^^bbbbbabbaabbbbaaaaabaa`a``]aaa]a`][[]Z`  
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+HWI-EAS443:3:2:128:569#0/1  
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+HWI-EAS443:3:2:1329:544#0/1  
ab^VZZZ\_¥^¥[Y^¥`Za`]^`^b\_¥JZYVb¥Q¥aaaaa[  
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TGAGAATGGGAGACCTTCACTACCTCCAGAGCAGAAATGA  
+HWI-EAS443:3:2:1333:762#0/1  
aaa`\_\_`aa`\_a\_VX]]^`U¥\_X][ZR]^U\_NU\_VWY¥][  
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+HWI-EAS443:3:2:1358:1800#0/1  
`ZaYSY]^aM`H]R^¥a[[]\_aY LX\_\_\_\_``]RZJ]aZ]SUU  
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+HWI-EAS443:3:2:1369:1739#0/1  
a\_`aab^Xba`[][^^^baaVX]\_R]^W`V^`GY\_GR¥PT  
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+HWI-EAS443:3:2:136:940#0/1  
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+HWI-EAS443:3:2:1370:256#0/1  
aa]`bUa`a¥WS`¥^\_Ya\_WU^¥¥¥\_S\_WY^¥YU¥¥SWWY  
@HWI-EAS443:3:2:1371:403#0/1  
TGCCGCATTTCTTCAATTAACCACCTTATTTCTCAAATT  
+HWI-EAS443:3:2:1371:403#0/1  
aa\_\_babbbbaaa`aaaaa\_\_\_\_\_aaaaa^Wa^`]\_a\_  
@HWI-EAS443:3:2:137:191#0/1  
CGCATTTCTTCAATTAACCACCTTATTTCTCAAATTTCT  
+HWI-EAS443:3:2:137:191#0/1  
abbbbabababaaa`^a`baa`aaaa`a`^a\_aa`a\_a]`  
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+HWI-EAS443:3:2:1422:1128#0/1  
abbb\_\_b`abb\_aaabbaa\_a^`\_`¥ab```\_aaa`abaa  
@HWI-EAS443:3:2:1438:1954#0/1  
GCCGCATTTCTTCAATTAACCACCTTATTTCTCAAATTT  
+HWI-EAS443:3:2:1438:1954#0/1  
a`¥a`aaaa\_aa^\_aa^a`^`\_ZW``\_a`]XUa]\_^^`^^  
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GAAACTGTGATGAGAATGGGAGACCTTCACTACCTCCAGA  
+HWI-EAS443:3:2:1468:577#0/1  
`a`\_`aa^a]a`Z^W^\_`\_X`]]S^]\_V\_YYYYXV^X  
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CTGTGCCGCATTTCTTCAATTAACCACCTTATTTCTCAA  
+HWI-EAS443:3:2:1516:283#0/1  
^\_[[`¥U¥]]\_`^aH^`]]`aaa\_]TY[Q\_`Y`][TRZ[\_\_\_

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aaaaaaaaVaa`\_\_a]`\_`\_aa[W^W`\_`\_¥V]^\_]^U^TQ  
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+HWI-EAS443:3:2:1552:240#0/1  
`babbbb\_bbaabbabaab``bbbbabaab\_aa`bab¥a  
@HWI-EAS443:3:2:1660:911#0/1  
AGGCAACACCCTTGGCCTCGATATCGAAACAGCCACTCTT  
+HWI-EAS443:3:2:1660:911#0/1  
V`aaaaX`a`[¥a`]PZ[Ya\_a`a^^S`\_¥\_`SKRKPN^^  
@HWI-EAS443:3:2:1703:777#0/1  
GATTTCGCTTGGAGAACTGTGATGAGAATGGGAGACCTTC  
+HWI-EAS443:3:2:1703:777#0/1  
a^\_\_\_\_aa\_` `[¥\_[V^Z^`X\_R]]X^\_]Y¥TSWTGMWBB  
@HWI-EAS443:3:2:1707:1580#0/1  
ATGGTGAATTTCTCCAATTTGCTCCCTCCTCAGTGAA  
+HWI-EAS443:3:2:1707:1580#0/1  
[TYaYYbXT\_\_aRa]G]S\_a`aa^\_`S\_G>[]a\_^aR` `^  
@HWI-EAS443:3:2:1764:1112#0/1  
TGCCGCATTTCTTCAATTAACCACCTTATTTCCCTCAAATT  
+HWI-EAS443:3:2:1764:1112#0/1  
aa`\_aY`aaa^aaX`]aa`\_]\_]Sa`\_` `RW`Y]Y\_a^  
@HWI-EAS443:3:2:214:1083#0/1  
ACACTTAGAATGACAATTGCATCTGTACCTACTTCGCGCT  
+HWI-EAS443:3:2:214:1083#0/1  
``a]``aV¥\_Za]baba]bba`¥V[VY¥^a[[`aaa^a¥  
@HWI-EAS443:3:2:271:1928#0/1  
GCCGCATTTCTTCAATTAACCACCTTATTTCCCTCAAATTT  
+HWI-EAS443:3:2:271:1928#0/1  
``Q\_aaaa`\_baa^`aaaa\_\_aa`aaaaa\_`a`a\_aaa`  
@HWI-EAS443:3:2:288:272#0/1  
CTTGGAGAACTGTGATGAGAATGGGAGACCTTCACTACC  
+HWI-EAS443:3:2:288:272#0/1  
``aaa`a]\_\_¥`UPV^a\_aW`\_\_\_\_¥¥¥WWWUY^WW¥BB  
@HWI-EAS443:3:2:32:343#0/1  
GAAACTGTGATGAGAATGGGAGACCTTCACTACCTCCAGA  
+HWI-EAS443:3:2:32:343#0/1  
ababab`Tbaaa`¥F`ab¥R\_ba^Z[\_\_a^R\_UX]]]`a`  
@HWI-EAS443:3:2:379:1141#0/1  
GATGAGAATGGGAGACCTTCACTACCTCCAGAGCAGAAAT  
+HWI-EAS443:3:2:379:1141#0/1  
a^¥b`aYZ\_\_a¥U]LPUR\_U\_S`PG\_]S]`R\_]a^T¥U  
@HWI-EAS443:3:2:388:827#0/1  
AGAACTGTGATGAGAATGGGAGACCTTCACTACCTCCAG  
+HWI-EAS443:3:2:388:827#0/1  
a\_ZZXabbWa[`a^Saaa]a\_a`]a\_Z\_\_]¥aX]X]UU`  
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+HWI-EAS443:3:2:406:1231#0/1  
a`\_^VYaZa[aa]a[^`^a\_aY]X]]^]X\_[^]PUWVU]]Y  
@HWI-EAS443:3:2:465:591#0/1  
GAGATTCGCTTGGAGAACTGTGATGAGAATGGGAGACCT  
+HWI-EAS443:3:2:465:591#0/1  
\_a^aa`aba^abaa¥R`aaaP`\_`a]a]\_\_`\_]\_^N^  
@HWI-EAS443:3:2:499:1428#0/1  
CACGGTTCGAGTCTCTGAAAATATACAGAGATTCGCTTGG  
+HWI-EAS443:3:2:499:1428#0/1  
abT\_bWb`aaaa`^XZaa\_[]a`a\_[\_aa`a\_ZQaZR]]a  
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GAAACTGTGATGAGAATGGGAGACCTTCACTACCTCCAGA  
+HWI-EAS443:3:2:518:1873#0/1  
Z`\_babaab¥bb\_baaa`aa]ab`\_a\_aba\_bG\_a^X`aa  
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+HWI-EAS443:3:2:519:198#0/1  
aQ^a`^Ua¥WW^WZ¥WZ[TUUUYUWUUUV¥SWY¥WY¥WB  
@HWI-EAS443:3:2:565:1256#0/1  
GAATGGGAGACCTTCACTACCTCCAGAGCAGAAATGAAAA  
+HWI-EAS443:3:2:565:1256#0/1  
aaaaaa`^a`^]aa`]`aa¥¥a\_\_a`[`¥Za¥¥\_a¥¥^]¥  
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CAAATCGTGAATGGATCTTGAAAGAGGAATCCAGCGAGA  
+HWI-EAS443:3:2:566:431#0/1  
`a`Z`ababa]aaba`aabab`\_a]ab\_a``[U`a\_aa``  
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CCGCATTTCTTCAATTAACCACCTTATTTCTCAAATTC  
+HWI-EAS443:3:2:584:742#0/1  
¥T][SY\_YZH]PVPW^GWOYX]^`^\_¥\_^W¥\_]`^WW^¥¥Y  
@HWI-EAS443:3:2:595:1605#0/1  
AGAACTGTGATGAGAATGGGAGACCTTCACTACCTCCAG  
+HWI-EAS443:3:2:595:1605#0/1  
^`Y]\_]ba[aab`a```\_a`a\_a`]U\_a[]U]aXW\_\_V^`  
@HWI-EAS443:3:2:60:691#0/1  
TGAGAATGGGAGACCTTCACTACCTCCAGAGCAGAAATGA  
+HWI-EAS443:3:2:60:691#0/1  
a^aaaa\_aa`\_a]S```^a\_a\_\_^]^[`\_`\_a]\_\_\_^`\_a¥  
@HWI-EAS443:3:2:683:1476#0/1  
ATCGGTTAAAGATTACTGAAGTTCGCTTTCAGTACTAT  
+HWI-EAS443:3:2:683:1476#0/1  
a]``b\_b^`aa\_Z`H`a^\_Z]aY\_\_a^^a`P^^[^]\_`  
@HWI-EAS443:3:2:685:810#0/1  
GAAACTGTGATGAGAATGGGAGACCTTCACTACCTCCAGA  
+HWI-EAS443:3:2:685:810#0/1  
H\_bbaba`b`bbbabab]abaa\_ba`a\_abVVa\_X\_ba  
@HWI-EAS443:3:2:687:1030#0/1  
CAGAAAGGTAGCGGAAGTAGGTACAGATGCAATTGTCAT  
+HWI-EAS443:3:2:687:1030#0/1  
ab`aab`^aaabaa`\_a]`aa]a^aaa`\_\_`\_aaaX\_\_



@HWI-EAS443:3:2:690:1638#0/1  
CTTGGAGAACTGTGATGAGAATGGGAGACCTTCACTACC  
+HWI-EAS443:3:2:690:1638#0/1  
]bbbb[[]W]\_aYX\_\_`bbba]a\_`] `ba[ `a][aVabSL  
@HWI-EAS443:3:2:701:287#0/1  
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+HWI-EAS443:3:2:701:287#0/1  
aaa]^]a^a`a`^aY]` `a\_X\_X]V\_\_^^V]]YXXRXYXY  
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TGTCGCTTTCAATCTGTGCCGATTTCTTCAATTAACCAC  
+HWI-EAS443:3:2:733:1996#0/1  
aaY\_a]a\_aW^\_aW^`¥aU\_bYa`\_a^aaX]\_`\_`aWU`Z  
@HWI-EAS443:3:2:802:1856#0/1  
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+HWI-EAS443:3:2:802:1856#0/1  
aaW`aaH]baYa]a^Ta\_^a[a\_L¥\_GZFQaSRaZHZRJW  
@HWI-EAS443:3:2:836:748#0/1  
AGAAACTGTGATGAGAATGGGAGACCTTCACTACCTCCAG  
+HWI-EAS443:3:2:836:748#0/1  
^` `^aaa^]b¥^¥]ba`aba]]a`Y]`a\_a\_\_`S¥aP^^`  
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GCCGCTTTCTTCAATTAACCACCTTATTTCTCAAATTT  
+HWI-EAS443:3:2:86:496#0/1  
abbababbbababbab`aaa`bbaaabbba^abaa`\_` [ `  
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GAGAATGGGAGACCTTCACTACCTCCAGAGCAGAAATGAA  
+HWI-EAS443:3:2:876:1371#0/1  
aa¥L`a]aR^`a]U¥\_\_aaa` `[ \_WY`\_W\_¥[]\_TUWa¥\_  
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GAATGGGAGACCTTCACTACCTCCAGAGCAGAAATGAAAA  
+HWI-EAS443:3:2:886:1007#0/1  
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@HWI-EAS443:3:2:908:391#0/1  
AGAAACTGTGATGAGAATGGGAGACCTTCACTACCTCCAG  
+HWI-EAS443:3:2:908:391#0/1  
abY]¥]b\_X¥X` [^b\_` `baa\_b^U^` `[a\_`aY^\_¥aZ\_  
@HWI-EAS443:3:30:1075:370#0/1  
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+HWI-EAS443:3:30:1075:370#0/1  
abab`^a`aaa`ba\_`\_aa]`a]a`\_`\_]\_Y\_^\_^]X\_^N^  
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+HWI-EAS443:3:30:1087:1602#0/1  
GZVa\_`abbbbaaab`¥a^aVY`¥^b`bbbbbbaab`b  
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CTCTGAAAATATACAGAGATTCGCTTGGAGAACTGTGAT  
+HWI-EAS443:3:30:1110:734#0/1  
ababaabbbbbbabbbbbbba`bbabaaaabaaaaaY]\_a  
@HWI-EAS443:3:30:1113:770#0/1  
GTCGCTTTCAATCTGTGCCGATTTCTTCAATTAACCACC





+HWI-EAS443:3:30:1744:1083#0/1  
^^`aa`¥`¥a[aW[Zzb` `bVb`a`\_`ZV`aa]HUaIHRaa  
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GAGAATGGGAGACCTTCACTACCTCCAGAGCAGAAATGAA  
+HWI-EAS443:3:30:1760:1670#0/1  
aaa^a` `b`aaaZ[ZZ\_aXa[[T^¥] ` \_V\_Z` `S¥\_U\_W[  
@HWI-EAS443:3:30:177:310#0/1  
ACACGGTTTCGAGTCTCTGAAAATATACAGAGATTCGCTTG  
+HWI-EAS443:3:30:177:310#0/1  
abaaaa] `[^]a`aa\_]Z^W^[[ ` \_ ` \_SP^SZ\_]T^ZZ¥  
@HWI-EAS443:3:30:1784:1945#0/1  
TGCCGCATTTCTTCAATTAACCACCTTATTTCCCTCAAATT  
+HWI-EAS443:3:30:1784:1945#0/1  
a` ` \_^^^X])aa¥bZaZ\_b[aaZP\_\_[^[a\_\_a^` \_\_¥Z  
@HWI-EAS443:3:30:187:1948#0/1  
CTTGAGAAACTGTGATGAGAATGGGAGACCTTCACTACC  
+HWI-EAS443:3:30:187:1948#0/1  
a\_\_^]WW¥][ ` \_\_W[[[YY[GUYRTTY^` \_ZV^[ZUZ]U  
@HWI-EAS443:3:30:226:558#0/1  
AGAAACTGTGATGAGAATGGGAGACCTTCACTACCTCCAG  
+HWI-EAS443:3:30:226:558#0/1  
a[YZO¥`ZW^^][S^[[ ` [¥LUQY] ]^^^YY¥VYS]TY  
@HWI-EAS443:3:30:235:1364#0/1  
TCTCGCTGGATTCTCTTTCAAGATCCATTCCACGATTTG  
+HWI-EAS443:3:30:235:1364#0/1  
Z\_baZa¥ZW¥U[bbaa^`abbb]^T\_[X]^^[J]UZ` ` ` \_  
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GAATGGGAGACCTTCACTACCTCCAGAGCAGAAATGAAAA  
+HWI-EAS443:3:30:279:1758#0/1  
a^` ` `a[aaaab¥a^^a`¥`ba` ` ` `U] ` ^ ` ` ¥S ` ` ` [^\_  
@HWI-EAS443:3:30:298:386#0/1  
AGATTACACTGAAGTTCGCTTTTCAGTACTATGTTCTTTTC  
+HWI-EAS443:3:30:298:386#0/1  
a¥Sabb` `aab` ` `a`abbab\_aa`¥`\_a`a]abaaa\_b\_\_a  
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CAACTGCATTTTTGACATCCTCATAAGTATGTCCTGGAAG  
+HWI-EAS443:3:30:308:1617#0/1  
aaab`¥ba`aa\_\_YWa^^`a\_a\_^`\_[X` \_\_Ua`^^]^]¥  
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GTCAGAAAGGTAGCGGAAGTAGGTACAGATGCAATTGTC  
+HWI-EAS443:3:30:30:1641#0/1  
a`\_]V¥YU¥ZR]^ba`a^Y`^` `a])` [ `a[ `aZ] ` ]^ [^  
@HWI-EAS443:3:30:333:1437#0/1  
AGGCAACACCCTTGGCCTCGATATCGAAACAGCCACTCTT  
+HWI-EAS443:3:30:333:1437#0/1  
aaaaaa^[aa` [\_ [] \_a\_a\_^`a\_` \_[\_[[Z^aXU¥UNBB  
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GCCGCATTTCTTCAATTAACCACCTTATTTCCCTCAAATTT  
+HWI-EAS443:3:30:334:1958#0/1  
aba¥bbV]SWFRb¥`RVX\_b^bbaa¥b¥J`aaTb^VbaSF

@HWI-EAS443:3:30:342:1090#0/1  
ATCGGTAAAGATTACACTGAAGTTCGCTTTCAGTACTAT  
+HWI-EAS443:3:30:342:1090#0/1  
^\_aa^[aa¥[^]^\_aYaa\_\_Z\_Z^Z¥`\_a`[\_Y^]]\_  
@HWI-EAS443:3:30:350:1617#0/1  
CAGAGATTGCTTGGAGAACTGTGATGAGAATGGGAGAC  
+HWI-EAS443:3:30:350:1617#0/1  
aa[```a\_a\_a\_] [W````]`\_^\_V^¥UV[\_^\_]PZ[XRUV  
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GCCGCATTTCTTCAATTAACCACCTTATTTCCCTCAAATTT  
+HWI-EAS443:3:30:352:864#0/1  
abaaaaaaaaa`\_]aaaa`aaaaaaaa`aaaba^`a\_^  
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TGAGAATGGGAGACCTTCACTACCTCCAGAGCAGAAATGA  
+HWI-EAS443:3:30:356:48#0/1  
ab¥b`a`a`^^\_aaa`a\_[\_`a`\_]\_a[TT[`XSYZ[Z\_^  
@HWI-EAS443:3:30:375:591#0/1  
ATGAGAATGGGAGACCTTCACTACCTCCAGAGCAGAAATG  
+HWI-EAS443:3:30:375:591#0/1  
aaaaba`aba`a`aa¥aaa`a`a`aaa`[X`\_]\_U^]`  
@HWI-EAS443:3:30:376:213#0/1  
GAGAACTGTGATGAGAATGGGAGACCTTCACTACCTCCA  
+HWI-EAS443:3:30:376:213#0/1  
aa`^¥`a`\_]a\_``\_Ya\_a`\_¥\_`^`^]`^`^V]X]^YYX  
@HWI-EAS443:3:30:388:50#0/1  
TGCCGCATTTCTTCAATTAACCACCTTATTTCCCTCAAATT  
+HWI-EAS443:3:30:388:50#0/1  
¥``^a^XX¥a\_X^b^`b\_KYYW\_¥aa`aaaaaaZ[[]]  
@HWI-EAS443:3:30:405:192#0/1  
GAAACTGTGATGAGAATGGGAGACCTTCACTACCTCCAGA  
+HWI-EAS443:3:30:405:192#0/1  
\_aTab`b``[aa`a\_\_a`a\_S]`]a`^W^^X¥^VU]] [YS  
@HWI-EAS443:3:30:426:693#0/1  
GAATGGAATGGTAACACGGTTCGAGTCTCTGAAAATATAC  
+HWI-EAS443:3:30:426:693#0/1  
aa`aaa\_`aba[abaaa`R]aa``]T`]``^¥]`\_ [¥^\_^  
@HWI-EAS443:3:30:429:1743#0/1  
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+HWI-EAS443:3:30:429:1743#0/1  
abbaba`aababbbba`bbbbbaaaabbaaababbaa\_`  
@HWI-EAS443:3:30:489:49#0/1  
GCCGCATTTCTTCAATTAACCACCTTATTTCCCTCAAATTT  
+HWI-EAS443:3:30:489:49#0/1  
a`\_aaabaaaba¥a`aaaaaa``\_aab`\_`a`\_`\_a``]  
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GTCGCTTTCAATCTGTGCCGCATTTCTTCAATTAACCACC  
+HWI-EAS443:3:30:490:642#0/1  
a]¥HY\_aa^SVXWTYOP¥XX^¥[P][VZ`XZWXV[Y\_]X[  
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GGTTAATTGAAGAAATGCCGCACAGATTGAAAGCGACAGA

+HWI-EAS443:3:30:514:771#0/1  
\_b\_` `[a\_aaaaT^` [a`aa¥aaaaa\_aa` `¥a` `\_] ^\_`  
@HWI-EAS443:3:30:535:958#0/1  
CTTTTGCCTAGGCATGAGCATGAACCACTCTCGTGACATT  
+HWI-EAS443:3:30:535:958#0/1  
aZabab` aZ` b] a] Zaaa` ^aX^a\_S] a\_aa` [] `U\_Z] H  
@HWI-EAS443:3:30:574:1440#0/1  
GAGAATGGGAGACCTTCACTACCTCCAGAGCAGAAATGAA  
+HWI-EAS443:3:30:574:1440#0/1  
Za¥aaabaaaaaab\_\_aba` aaaXa\_^^ [a\_^a` ¥] ` \_\_\_\_  
@HWI-EAS443:3:30:588:1194#0/1  
CTGTGATGAGAATGGGAGACCTTCACTACCTCCAGAGCAG  
+HWI-EAS443:3:30:588:1194#0/1  
a` `aaabb^bT\_aaaaa` a` `aaaa\_a] \_\_ `a` \_X\_\_ ^^  
@HWI-EAS443:3:30:638:1804#0/1  
GTCGCTTCAATCTGTGCCGATTTCTTCAATTAACCACC  
+HWI-EAS443:3:30:638:1804#0/1  
aabab` aabab` b^ [Z [ba\_aaa\_aa` aaaaa^\_a^^aY [  
@HWI-EAS443:3:30:648:146#0/1  
CTCTGAAAATATACAGAGATTCGCTTGGAGAACTGTGAT  
+HWI-EAS443:3:30:648:146#0/1  
aaaaaaaaaaaaabab` a` a\_ ` ` \_a\_\_ ] \_\_ [ \_ ] Z\_ ^^ \_X^XZ  
@HWI-EAS443:3:30:687:402#0/1  
TGAGAATGGGAGACCTTCACTACCTCCAGAGCAGAAATGA  
+HWI-EAS443:3:30:687:402#0/1  
abaaaabbbbaaaaaaa` a` aa\_] ^\_^` a\_ ` ` \_a^^ ` ` \_`  
@HWI-EAS443:3:30:694:536#0/1  
GGAGAACTGTGATGAGAATGGGAGACCTTCACTACCTCC  
+HWI-EAS443:3:30:694:536#0/1  
aaaa` \_a` ab^` aa\_ ^a¥` `a\_` `R¥\_ ^\_ ^a^ [ ^XZ^U ]  
@HWI-EAS443:3:30:715:158#0/1  
GAAAGCTCTTATCTCTTGTCTACTTCAAGCAGTAGTTGT  
+HWI-EAS443:3:30:715:158#0/1  
aaaabaaaababaaaabb` aaaa` aaaaaYaa] \_ ` ^a\_ ]  
@HWI-EAS443:3:30:740:1131#0/1  
CGCATTTCTTCAATTAACCACCTTATTTCTCAAATTTCT  
+HWI-EAS443:3:30:740:1131#0/1  
aab` ababbbabbbabb` ` abbbbaabaabbaaaaWa  
@HWI-EAS443:3:30:740:350#0/1  
AGAAACTGTGATGAGAATGGGAGACCTTCACTACCTCCAG  
+HWI-EAS443:3:30:740:350#0/1  
aaaaa` aa\_b` aaaa\_a` a` a] ` ¥U\_ ` \_\_a^\_ ` ^¥^ ] ¥^\_  
@HWI-EAS443:3:30:741:1040#0/1  
GAATGGGAGACCTTCACTACCTCCAGAGCAGAAATGAAAA  
+HWI-EAS443:3:30:741:1040#0/1  
\_a` [aa\_U\_ ` \_a\_\_aa\_\_a\_ [ ] ^ ` \_a\_a\_ ` ` \_^ ` \_\_\_\_ ^^Z  
@HWI-EAS443:3:30:748:267#0/1  
TGGGAAACAAATCGTGGAATGGATCTTGAAAGAGGAATCC  
+HWI-EAS443:3:30:748:267#0/1  
abbaabbbbabbbb` abaaaba\_a` bbbbaababba` aW]

@HWI-EAS443:3:30:760:95#0/1  
TGATGAGAATGGGAGACCTTCACTACCTCCAGAGCAGAAA  
+HWI-EAS443:3:30:760:95#0/1  
aa\_`aa`aaaa^a\_\_]\_\_^\_X\_]^X]YX¥` ]`XX\_UYX  
@HWI-EAS443:3:30:782:464#0/1  
AGAAACTGTGATGAGAATGGGAGACCTTCACTACCTCCAG  
+HWI-EAS443:3:30:782:464#0/1  
\_bba^b¥`ZWZaa\_Z\_]\_a^\_V[VU]¥¥¥TYaaMF¥LJ[]  
@HWI-EAS443:3:30:838:1762#0/1  
AAAATATACAGAGATTGCTTGGAGAACTGTGATGAGAA  
+HWI-EAS443:3:30:838:1762#0/1  
W\_bb`¥S^baabbbbaa\_bWba\_¥`b]b]abM^ba`baaa  
@HWI-EAS443:3:30:857:1676#0/1  
GCCGCATTTCTTCAATTAACCACCTTATTTCTCAAATTT  
+HWI-EAS443:3:30:857:1676#0/1  
ZaaTaYXXY\_^]ba^^Y^`^aa`a`ba\_]a`aaa\_aa]  
@HWI-EAS443:3:30:888:356#0/1  
CGCATTTCTTCAATTAACCACCTTATTTCTCAAATTTCT  
+HWI-EAS443:3:30:888:356#0/1  
L[S\_bbbbaX`bbb\_bbb\_bab^bbb`\_aabbbbbbbaa[`  
@HWI-EAS443:3:30:890:1226#0/1  
AGAAACTGTGATGAGAATGGGAGACCTTCACTACCTCCAG  
+HWI-EAS443:3:30:890:1226#0/1  
Xaabaa`bVZXaa`aa\_aaaa\_a\_aaa`\_a\_a^[Y\_Z¥]  
@HWI-EAS443:3:30:964:780#0/1  
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+HWI-EAS443:3:30:964:780#0/1  
aaa`a`aa[`\_\_\_\_]¥W¥Z^VWU\_NY^\_X¥YMW\_]V]XY]  
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TGAGAATGGGAGACCTTCACTACCTCCAGAGCAGAAATGA  
+HWI-EAS443:3:30:976:1306#0/1  
]bba`^a^^¥]^aaa`]aa`V]aa\_aX\_a`baa\_\_\_\_`\_`  
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+HWI-EAS443:3:31:1012:961#0/1  
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+HWI-EAS443:3:31:1139:1256#0/1  
``]Y]bbaX`b¥b\_Q¥S¥^bY\_ba\_¥W¥^a\_a`[b```[^  
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+HWI-EAS443:3:31:1463:1897#0/1  
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aaa\_aaZ`a`\_`a`¥]\_]Y\_^]a]\_`YY]UX^^][  
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+HWI-EAS443:3:31:1491:1026#0/1  
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+HWI-EAS443:3:31:1520:927#0/1  
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+HWI-EAS443:3:31:1522:19#0/1  
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a\_aa¥aaaa^aa\_\_a\_\_a\_\_[\_`\_``aaaaZ^`]VX``^]  
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+HWI-EAS443:3:31:370:926#0/1  
aa````\_]a`a]^`a`aW`^^`a[``\_][^`a`\_]Q]ZY]\_



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a`a`¥W^`aUa\_\_^]a[\_Zaa\_]a[`a`\_a\_`¥¥a\_[^`  
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+HWI-EAS443:3:32:1121:1485#0/1  
]Z¥Z\_^ZZZ`a]^G¥X[\_a\_]T[¥]¥Za][WUY¥¥]^ZT  
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+HWI-EAS443:3:32:1126:186#0/1  
Z¥abb\_b\_Za^a]S[ba`a]````\_aba^Y[^Z`ZL`¥\_  
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@HWI-EAS443:3:32:1148:1818#0/1  
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+HWI-EAS443:3:32:1148:1818#0/1  
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¥a]¥b)`[^Z¥^Zba]aaLZa`^a\_^XZ¥¥a\_]`V^[]]b  
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+HWI-EAS443:3:32:1378:443#0/1  
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+HWI-EAS443:3:32:1446:776#0/1  
aa`¥`aaaaa^`\_a]^`^S`\_[\_W\_^\_\_WW]``¥W^]`[]  
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\_b``bbbb``ab`baba`T^```ab`\_`aaaa\_b[b^bba`  
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+HWI-EAS443:3:32:1582:1157#0/1  
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+HWI-EAS443:3:32:1713:1111#0/1  
`a`a]^ab`Z]a`\_a^`a`aU\_ZXO[aUZ]]^U¥Va[Y\_  
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+HWI-EAS443:3:32:1723:1399#0/1  
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a)`ab[¥[b]\_SUZ`WZ]\_aabX`ZY\_U¥Q[`]ISTTNVX  
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a^aa\_aabb^Ta\_a[\_\_a\_`aa^`\_a`]T0`S^]a``]Y  
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@HWI-EAS443:3:32:251:841#0/1  
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+HWI-EAS443:3:32:284:1832#0/1  
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aaa^aaaVXWaa`\_`a^aba^a\_[]`\_`V^Z`¥S`\_`^¥^U  
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UZa¥F¥¥¥U`a\_Z\_aaa`a\_aa`]`\_`aa]`\_`a\_\_¥`VZ\_  
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aa\_[]X^`aa\_[XYF\_]`[W¥[[]¥OYT[[]ZTWXSOXPJ  
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+HWI-EAS443:3:32:54:739#0/1  
a\_bab`aaa`aa`\_Y`\_aa\_Y^^`\_`\_]Y\_\_\_YZa`a`  
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a\_a`aa]`aaZaaaa\_\_Waa^aa`]a^aa^`\_`¥^\_^\_V`  
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aZSO¥I[ `a\_XW[[WZ¥\_`RTRV`[\_^\_\_X`]WPXNZW`R  
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aX`a¥baa^)`]a`\_]`]]]\_\_\_\_^^^Ya\_\_\_\_\_0¥Ya\_0S  
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+HWI-EAS443:3:32:868:814#0/1  
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+HWI-EAS443:3:32:91:573#0/1  
\_a\_ZQaa\_¥`V¥a[\_\_\_`aa`Z[\_\_\_a\_[a\_`^`[a]a`T]  
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O\_\_^\_¥¥\_V¥a[\_UR0\_]a\_a\_aaa]]V\_aa`Q[\_V¥aWW  
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aa`aaaa`bbbaaaaa`bba`\_^\_\_\_^a\_``^V\_Z\_^`a^  
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aZ`a^aaaa`aa[\_`aa\_aZV¥[Y`Y]```ZSYZZYY^`\_  
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ab`a\_aaaaaXa\_aa`^aa`[``a^a\_XUS¥\_¥¥N¥ZW[Z  
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+HWI-EAS443:3:33:1602:2035#0/1  
S^\_aaab\_baabb]`bababYZaa\_Y]¥XY`\_Z¥\_a]\_Y`  
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+HWI-EAS443:3:33:169:1498#0/1  
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a`aaaa`\_\_a``aaa\_`\_`^`^Z]S\_\_^`QUT^^¥[[^  
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`¥`b]bbaaZ`Z`aaaaabaa¥]`]]`aaabb\_a`\_`\_`\_  
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K`a¥SX^bYabaM\_U]]aZ\_a`baaba\_^XVa[\_aZ``aa  
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+HWI-EAS443:3:33:329:440#0/1  
¥\_U\_\_`\_Z¥Y]S]]`[^JX`aS^`]]`[\_Y]]ZY\_\_\_a`  
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+HWI-EAS443:3:33:340:494#0/1  
aaa^a^`a`a`\_`^a\_¥`\_`^`^`\_`\_`[¥]\_\_Z\_]V[]]]  
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XV]b¥aS`\_\_¥^`a\_]aa^`aaV^aaaa`X`Vaaa]`^\_  
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abb`a`X`ab\_aa`^`abb[XV`abbb^a\_bY`[Y`aaaa  
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+HWI-EAS443:3:33:561:1393#0/1  
¥R`baa^aaa^Za`ba^a`^`^b``a]]a]`\_`G]]\_U`^  
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^\_```¥`[Y`¥X¥¥aa`ab^bbbb`[`a^\_aa```\_`[YR¥^  
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`Z`a[a`\_\_\_\_]^`\_¥`¥^`\_^¥^W^¥W\_YWWY\_WWWY  
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aaa\_``aa\_Y`\_]\_a`\_\_a\_a\_^[\_^W^\_Wa^¥`WW¥X[TW  
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aa\_\_PT^a]aaa`abaJ\_\_\_a`\_\_`¥\_`VTRR^\_X\_XBBB  
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a\_aaa`ab\_aa^\_\_Yaaa\_^^`\_`^a\_aa`\_^\_]X]V`\_]\_`  
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+HWI-EAS443:3:34:572:1204#0/1
ab_aabbabb_^`J`][SXWYQS`a]Xa^]aa^[¥_X]a
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+HWI-EAS443:3:34:577:392#0/1
a]b^bbs`]aaaa]]a_ab`a]a_a_aaa`_XV`]^__
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@HWI-EAS443:3:34:639:1528#0/1
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+HWI-EAS443:3:34:639:1528#0/1
^Za_]Y]¥a¥``]Y[VU_`a^J[]WY¥aaaa`aa]XMZZZ
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_`aaa`WQ_aa_`¥`^`[^¥^¥X_`¥W¥^XVVSWTXUBBB
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+HWI-EAS443:3:34:670:1283#0/1
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+HWI-EAS443:3:34:670:507#0/1
L_`ZW_Z`¥`X_¥`Q¥Wb_bbab_ZJ^aW]b^WXH¥FV`B
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a`¥aV0___]^`)\`_`a[___ZZ`Z_^_[][^[SRVZXZ
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aa`a]```a`_aa__`a]^a`aa__`___a__aaR`^^^_
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+HWI-EAS443:3:34:79:597#0/1
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+HWI-EAS443:3:34:844:198#0/1
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aba_b_babaa`aaaa^`^aaaaa`^aaaaa`_Z`^__W]
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Z[`a`a`a¥[]Sab`aaaabb^abaaaaab_aa_```a`^
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+HWI-EAS443:3:34:906:1855#0/1
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+HWI-EAS443:3:34:958:954#0/1
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+HWI-EAS443:3:35:1152:1591#0/1
ab`aYYaa_aL`YPXZ_]b`#aXa`][X`a___#_[``[
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_W]a`VPXXVLY]U[]TWFW[_Z#X^M^RMKTQL^Y^X[
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+HWI-EAS443:3:35:1261:453#0/1
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+HWI-EAS443:3:35:1324:1099#0/1
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+HWI-EAS443:3:35:1342:786#0/1
^#`^a`^bab`_`_]_aba__[_a_[^`aaa`aaa`a[Z
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+HWI-EAS443:3:35:1429:1006#0/1
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+HWI-EAS443:3:35:1566:1988#0/1
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+HWI-EAS443:3:35:1572:360#0/1
a[[aa[_aa_`^`_`^`_`^`_`TZNY`^`Z`_Y[^`W^W¥
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abb`_bbbbbbbababbbbaabaabaababbabbaaaab_a
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+HWI-EAS443:3:35:210:1992#0/1
a`XQaa_a]W_a`ZZ^¥a`___ZaYU_aa¥a^XU_^_Z^
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`a`IX¥^_]abbaaabbaaaa`a`_`S^a]``_`a``W
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^_¥]`a¥[WZ^Ya_Y`__Y`^^a`_aaa[``_`[a¥¥[^
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a`¥`ab[aa[^IaYR`b]aX]aaa`_^U¥UL__]_^Z^W
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TZX^Yaa^[Y^]Z_^aba_^Z_^¥_a[¥I¥^H¥¥Y[___P
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+HWI-EAS443:3:35:442:364#0/1
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+HWI-EAS443:3:35:456:214#0/1
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+HWI-EAS443:3:35:490:1329#0/1
^a^`Z¥W_`a`_aa¥aa]Z_a`_aaa]X`b^aa_¥_^^¥
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+HWI-EAS443:3:35:490:1494#0/1
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abaZZ^WYaY`aaaZ¥I`aa_aaa_^[]`YYaa]_ZL[ay
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[]`Z^`aa[]X¥¥^^Z`Taa_]`XWV[_a¥_[__^^`^VY
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Iabbb^^ab`b^bUaMaab_aabbaabab_U¥bab_a]^`
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@HWI-EAS443:3:35:662:230#0/1
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+HWI-EAS443:3:35:662:230#0/1
aaa__aa`aV]`a_`a_¥_`¥¥¥¥^J[_X[[_¥¥¥WWU
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+HWI-EAS443:3:35:682:1442#0/1
Sabbabbbbbb[aba[_U_a`bWab[_b_bb_bbbbaabb[b
@HWI-EAS443:3:35:689:1635#0/1
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+HWI-EAS443:3:35:689:1635#0/1
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aa_aabba]baab_ba`aaa_a`aaa`^TZ`aa`]a_`U`
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+HWI-EAS443:3:35:720:1626#0/1
VV^_VZ_a`UY``_]¥`U_^^]_`^ZW_ZV¥_a`]YWZ_0
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+HWI-EAS443:3:35:748:896#0/1
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+HWI-EAS443:3:35:828:1608#0/1
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+HWI-EAS443:3:35:861:1221#0/1
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+HWI-EAS443:3:35:866:1453#0/1
ab_aaa_aa_]a_`Z^a`_a¥a^^a__a`a__`_^a^`
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+HWI-EAS443:3:35:867:546#0/1
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@HWI-EAS443:3:35:893:982#0/1
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+HWI-EAS443:3:35:893:982#0/1
a`¥`abaaaa`¥`XYaa`a¥__`__]U`a`_W¥]]]W]Z`
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+HWI-EAS443:3:35:901:231#0/1
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+HWI-EAS443:3:35:923:1831#0/1
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@HWI-EAS443:3:35:945:1822#0/1
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+HWI-EAS443:3:35:945:1822#0/1
S¥W`W`¥bZ^Y_abaab`OP_a[^ab]^aba^a^]QaF]
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@HWI-EAS443:3:36:1011:793#0/1
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+HWI-EAS443:3:36:1011:793#0/1
`__b`T`aaa¥W_a_]¥ba_bM_a`_`aaa`^]aY]Y``¥
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+HWI-EAS443:3:36:1017:1362#0/1
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+HWI-EAS443:3:36:1023:781#0/1
_S]¥a__aa`YT^X]^OBBBBBBBBBBBBBBBBBBBBBBB
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a`aaa`aaaa`____a`____^^]`Y¥____]_^Z`
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a__b_aaa_````aa`aa````[^_`_`_^`_^`_]_^WM
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+HWI-EAS443:3:36:1135:691#0/1
a_a]a_aa`^`¥_Z^Y_a___YV^`¥_^`_`^Y¥YW¥^¥¥V
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+HWI-EAS443:3:36:1136:1361#0/1
`aaaa[abb_aaa__abaa`_`a^_a___b``[^`[aa_a
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+HWI-EAS443:3:36:1237:665#0/1
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+HWI-EAS443:3:36:1248:1618#0/1
]_X^aaa^W_^^][^`a`_]`Zb^a`baZaa`V SX]^Y_[
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+HWI-EAS443:3:36:1262:1455#0/1
aaa_a¥`aa_aabaaabaa_ab_aaaa`aab]a]a]aa`a
@HWI-EAS443:3:36:1266:108#0/1
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+HWI-EAS443:3:36:1266:108#0/1
a`_`aaa`¥Y`¥aR[]Y_T^[XN][YV`_]W_]_]W]X]^Z_
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a`_aa`a_a^`^]````[_a_a_^a]W¥`_¥^]_^a[]_]
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aaaaaaaaaaaa^a`ba```````_a]V_U¥¥YV^^`W¥[
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+HWI-EAS443:3:36:1486:857#0/1
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+HWI-EAS443:3:36:1490:1485#0/1
`^b`bY`H`TaXWX[`Y`ZY^]Q¥Y¥aY]_ZZ_Z]Y^^Z`
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a`WHQ^bXa_¥_b`^abaaa_T`a_^`[_a¥`_[SY`Z__
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+HWI-EAS443:3:36:1543:367#0/1
a^baba_aaaa_a`_aaaZ_a]_`_^_a]^ZX]a_]^
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a^a`aa`_`aaaa_a_aaa`ab_a`^aT_^a^^`_`a^Y`
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+HWI-EAS443:3:36:158:404#0/1
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a\_[`\_\_[\_\_\_`aa`a\_\_\_\_`\_\_\_\_^`^]\_N¥^`^^X[ZWZZZY  
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a\_^baba[`aaaa`aaaa\_\_\_\_]aaaa\_aa\_a^W\_aa``\_  
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a`¥Q^^[aWW\_aaUW\_¥`aUZa^^X`Xa`^a`XU^`a\_]`  
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a]\_\_^]]¥`aa\_[]`a^^^\_]aXT[\_\_a¥\_W\_TWZ\_V  
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+HWI-EAS443:3:36:743:2042#0/1  
]``\_a`SYa\_a¥bPZaa`X[a¥¥V[^a\_SY\_UVZ\_M^S¥\_  
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¥[aI\_bb`ba[bbabaabbbab[a\_baa`aba`\_a`aa¥M



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`\_V[^`ab`aa[ba]baa`^aZ``bbaa[Lmb¥Ya\_\_`aaa  
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abaa`bbabaab`a`\_abaa`ba``a`\_aT^aa`\_[-¥`]  
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a\_b\_a\_aa``Z``U^Y\_\_a`Xa¥\_a\_XSGVa\_¥R[V\_T\_  
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`\_a\_Y`babbbab¥`L^babaab\_`b`a\_\_]a[\_\_\_^`aa^  
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a\_\_N\_\_P\_\_a¥]]a[\_[aZ^¥`X`[\_]Z^Q¥P[X\_]\_W^  
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a\_ZOS¥a¥a¥^`\_`]ZJ0`\_Va\_YZ\_b[abNG]aR[Z^a]\_  
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abb]abaa`aaa`aaabab\_aaaaaa\_a[¥b^\_ba\_`\_\_\_  
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^`\_aa`ababab`babbabb`aWba\_abbVabbbbaab^a`  
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a\_aaa`aaa`aa`^^`ZZaX`\_`^`^`\_Y^^X¥WW]ZO  
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aaa\_\_P]]a`a\_a`aa#]a`[\_]\_\_Z\_^\_XKZ^X^X^OM

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+HWI-EAS443:3:39:941:1803#0/1
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@HWI-EAS443:3:39:942:329#0/1
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a`aa`[a`aaaa``aaaa_]P^^a__aaa_W`_aa__`]
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+HWI-EAS443:3:39:96:1269#0/1
aabbbab_baa]aaa]aa`a¥`aaa__aa`_a_`_aaa`]
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aTaba^¥aZ^aaa__ba_¥^]a^VS_]`XaGV]U_]UU^0
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+HWI-EAS443:3:39:994:423#0/1
a`baaaab`a_a]Ya`aaa]__aP`Z¥__^WU^X]]^VYY
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+HWI-EAS443:3:3:1065:1495#0/1
ab_`aababbabaa`babaa`abaaaa__aa__aa^ab^aa_
@HWI-EAS443:3:3:1153:1523#0/1
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+HWI-EAS443:3:3:1153:1523#0/1
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a_`^[¥SVW_^VT`GM_]N_XTP[^_YUZ]VSVUUXFZYB
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+HWI-EAS443:3:3:1161:1411#0/1
a^`_`aa_aa`a[[a_a^^a`aa_a_`a¥`]]`a^]X_]Q
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+HWI-EAS443:3:3:1187:371#0/1
ZJ]^Sa`V_aab`b]Xab^Ya`U]P^`Ya¥`_V[^UV^_]`
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+HWI-EAS443:3:3:1217:1595#0/1
^`abaaa_aa`^^`a_aaaa_a`aWaaa_`Za`[_`^`^a
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+HWI-EAS443:3:3:1227:1889#0/1
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@HWI-EAS443:3:3:1240:1142#0/1
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+HWI-EAS443:3:3:1240:1142#0/1
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+HWI-EAS443:3:3:1240:2026#0/1
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+HWI-EAS443:3:3:1343:611#0/1
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+HWI-EAS443:3:3:1357:737#0/1
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+HWI-EAS443:3:3:1431:1350#0/1
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+HWI-EAS443:3:3:1468:1592#0/1
¥a^aTVZa_¥U[a`U^]bbaabbbRI¥]_aa_`XPV`¥aB
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+HWI-EAS443:3:3:1470:840#0/1
¥````a^XQ]R]____]aa__Y_`a```a_^`_a_[Y[_ZX
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+HWI-EAS443:3:3:1490:1348#0/1
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+HWI-EAS443:3:3:1526:479#0/1
a_aaa^^aa_^¥¥_^ZZ[W¥¥ZF]W¥ZVVWUWW¥VQWW¥B
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+HWI-EAS443:3:3:1572:1378#0/1
¥R¥XZJT]^N]]PULYPT]TVZ_STKWWQFTHKYSWZBB
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+HWI-EAS443:3:3:1627:1106#0/1
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+HWI-EAS443:3:3:1700:1258#0/1
aaaa`aa[aaa__¥`a_a_]aa`V`[^^aW`_¥`_WTW]
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+HWI-EAS443:3:3:1738:92#0/1
abaaa_a]N]]aa_b^¥```_¥aXFN^_X^X_XRX]V VX_
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+HWI-EAS443:3:3:229:960#0/1
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+HWI-EAS443:3:3:245:910#0/1
`U_aU0]P_YN`Y`ZVY^aQNYGLPR^^]SYP^VVTVP^¥
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+HWI-EAS443:3:3:278:421#0/1
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+HWI-EAS443:3:3:31:1595#0/1
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+HWI-EAS443:3:3:31:1950#0/1
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@HWI-EAS443:3:3:339:33#0/1
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+HWI-EAS443:3:3:339:33#0/1
a[LJFOI¥a]U]_W]WWSTSWU`S]UPRZVVVXLQB BBBB
@HWI-EAS443:3:3:344:478#0/1
GTGATGAGAATGGGAGACCTTCACTACCTCCAGAGCAGAA
+HWI-EAS443:3:3:344:478#0/1
aabaaaaaaaaa^]Wa¥ZZ^__a_Z]TY[RN]a^a__`]]
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+HWI-EAS443:3:3:403:998#0/1
aUNRSYT_Y[TWWW¥[XZRLWQ[[WWW_ZP]S[^][BBB
@HWI-EAS443:3:3:419:1521#0/1
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+HWI-EAS443:3:3:419:1521#0/1
^Z¥Z¥_aa_WTW_a_[aa^Y`[a_aa`[]_X_^_a__BB
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+HWI-EAS443:3:3:431:1096#0/1
aa_a`aa^aaa_aXaaaZabaaa]`___`[]a]`_Za_]

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+HWI-EAS443:3:3:434:1809#0/1
a¥a`aab^b`^baa[^aa_aabba`^a`bX^a_^_Y_`a¥
@HWI-EAS443:3:3:44:1033#0/1
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+HWI-EAS443:3:3:44:1033#0/1
a`aab_baabaabaa_baba_^a` `a`aa`a¥_aa` `aa^
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+HWI-EAS443:3:3:455:64#0/1
aa_a^a[P^_aa___^`baaXa^]Y__^¥Y`^XG^UBBBB
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+HWI-EAS443:3:3:537:1208#0/1
`__]aa`Q_¥^bbb^Z^^`aY^[]aYT_[``YFVQ¥^_
@HWI-EAS443:3:3:546:1359#0/1
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+HWI-EAS443:3:3:546:1359#0/1
a`aa]a` `a^b_aa_`_^a_]_^_]_^]W]`¥_`^YY]Y]
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TGTGATGAGAATGGGAGACCTTCACTACCTCCAGAGCAGA
+HWI-EAS443:3:3:647:795#0/1
]¥^baaaaa^a` `a^`_^____` `]`VU¥^V_`_]_^`]
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ab_[b]Y^`bb`^bba`baab`baaab[Z]^abaaab_`a
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+HWI-EAS443:3:3:704:369#0/1
abbbbabaaa`babaaaabaa`a_¥aaa`_`aa_aZ_aa`
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+HWI-EAS443:3:3:74:398#0/1
aP_X]ab[X_RWq]`aYYT]¥¥_a^bX¥ZYW¥_Y^_X_Z]
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+HWI-EAS443:3:3:855:81#0/1
ab[aaaU`b_P¥^_aVUa___`^Z_a^^^aY`[[V^RVNY
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+HWI-EAS443:3:3:888:883#0/1
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+HWI-EAS443:3:3:90:1521#0/1
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@HWI-EAS443:3:3:919:1115#0/1
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+HWI-EAS443:3:3:919:1115#0/1
`][¥aQXU[U[V[_`X`V^[YNR¥[Z^]X^_T]Z[_`_`
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+HWI-EAS443:3:3:937:1254#0/1
^abbbbb_^`Vb^]a`^L^Y[U`_¥Va^`_^aa¥`^¥G]^
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+HWI-EAS443:3:3:948:535#0/1
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+HWI-EAS443:3:3:960:1526#0/1
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+HWI-EAS443:3:40:1023:1629#0/1
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+HWI-EAS443:3:40:1027:1493#0/1
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+HWI-EAS443:3:40:1087:1364#0/1
aa_`]Y]a`Y]`_^_a` ``^`^`¥T`^^^Z]¥_U^__¥[
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ab`a`aa_]`_a__` ``_]Z¥a`a¥UHXIYV` [0^a¥^QV

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a¥]aaaaaa^a^ZU`aa`_YUYSaa`¥__¥`]Z^]]Y
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+HWI-EAS443:3:40:1238:1362#0/1
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+HWI-EAS443:3:40:1242:964#0/1
`_^¥Y^^`_^]]`_]_^_]PY^]¥LTY]YW]_Y^Y]
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+HWI-EAS443:3:40:1307:387#0/1
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+HWI-EAS443:3:40:136:1105#0/1
aa]]`aaa]aa_Z`_]a`_`__`_^_Y]a`^^a`]V]]NT
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+HWI-EAS443:3:40:1391:71#0/1
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+HWI-EAS443:3:40:1458:1160#0/1
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@HWI-EAS443:3:40:1522:1649#0/1
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+HWI-EAS443:3:40:1522:1649#0/1
aaaaabb`bba_b`_aaa_a`aba_Ybaaa]a^WZ^b^`]
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+HWI-EAS443:3:40:1573:675#0/1
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+HWI-EAS443:3:40:1587:183#0/1
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+HWI-EAS443:3:40:1605:1462#0/1
T]]]ORQV_]PNVJQO^QVLYa[USW`^_YVMP¥KHS^ZL
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+HWI-EAS443:3:40:1618:733#0/1
^¥aa_W¥aYaZab]_^bbaW^¥Y^_ZYZaa``__Z_``[]
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+HWI-EAS443:3:40:1642:1073#0/1
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`bababbabbaabbbbaaabaabb_b`babab`M_a_aba
@HWI-EAS443:3:40:1758:1171#0/1
GAGAAACTGTGATGAGAATGGGAGACCTTCACTACCTCCA
+HWI-EAS443:3:40:1758:1171#0/1
¥Z``a¥X^a`X^`b_¥_aaa_ZR¥XS_^Y^QVZZZ^[XXS
@HWI-EAS443:3:40:1759:1274#0/1
ATTACACTGAAGTTCGCTTTCAGTACTATGTTCTTTTCCA
+HWI-EAS443:3:40:1759:1274#0/1
abbb`a¥_a_aaba_aabbaba_]aaaa_aabaaaa`
@HWI-EAS443:3:40:1770:903#0/1
CGCGCTACCTTTCTGACATGACCCTCGAGGAAATGTCACG
+HWI-EAS443:3:40:1770:903#0/1
`baaabbb__bb]]]aX¥¥bbabb^baVaabaZ`T`a¥a`]Y
@HWI-EAS443:3:40:20:1921#0/1
AAACGAGAAAGCTTCTTCTTCTTCTTCTTCTTCAAGCAGT
+HWI-EAS443:3:40:20:1921#0/1
`aba`aY_aaaaaaaaaabaabaaa__aa¥a`aa`^W```_`[

@HWI-EAS443:3:40:22:598#0/1
GAAACTGTGATGAGAATGGGAGACCTTCACTACCTCCAGA
+HWI-EAS443:3:40:22:598#0/1
a`XV]__NRVZXTRV]X[S[H¥V]^VV^U[VUV]YW^XXR
@HWI-EAS443:3:40:282:220#0/1
TGAGAATGGGAGACCTTCACTACCTCCAGAGCAGAAATGA
+HWI-EAS443:3:40:282:220#0/1
ab]_Waab`_¥ba`aa[a]a`U`Y`_¥[VY[¥Y^[QGY^S
@HWI-EAS443:3:40:357:1781#0/1
CCGCATTTCTTCAATTAACCACCTTATTTCTCAAATTTCT
+HWI-EAS443:3:40:357:1781#0/1
`a_baaabab`a`aab]aaaaa`aV_Ya`^a_XFUaU_
@HWI-EAS443:3:40:369:1396#0/1
TGAGAATGGGAGACCTTCACTACCTCCAGAGCAGAAATGA
+HWI-EAS443:3:40:369:1396#0/1
aa]VVT_aa^aabaa`]ba`X__a^^aaZ]Xa]`YJOW[^
@HWI-EAS443:3:40:379:1328#0/1
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+HWI-EAS443:3:40:379:1328#0/1
`HXXTVXYRV[_^Q[_UWVY^VXUP[HZ¥Z¥QJPTTUZTX
@HWI-EAS443:3:40:390:1904#0/1
TGAGAATGGGAGACCTTCACTACCTCCAGAGCAGAAATGA
+HWI-EAS443:3:40:390:1904#0/1
U[[`[VMRaaa¥0JW[^baRF^`aQ_aZQW^a^`¥^]^[
@HWI-EAS443:3:40:406:1269#0/1
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+HWI-EAS443:3:40:406:1269#0/1
a^_S`^`V_^[_S^]_^_]U]XXGQGVURU¥YX`USXV
@HWI-EAS443:3:40:448:1149#0/1
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+HWI-EAS443:3:40:448:1149#0/1
a```aaaaaa_`aaabb_aaaaa`X`baab^JZ___a_
@HWI-EAS443:3:40:516:155#0/1
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+HWI-EAS443:3:40:516:155#0/1
abbbbaa^a_`aa`aaa^`aaa`_`U¥[[^___a[LO_`
@HWI-EAS443:3:40:522:1683#0/1
TGCCGCATTTCTTCAATTAACCACCTTATTTCTCAAATT
+HWI-EAS443:3:40:522:1683#0/1
abbbab`bbbaaaaa^aabaabbaa`Y`^aa`aab^L^aa
@HWI-EAS443:3:40:535:1809#0/1
GAGATTGCTTGGAGAAACTGTGATGAGAATGGGAGACCT
+HWI-EAS443:3:40:535:1809#0/1
aa____[_`_]_____`_`_]_a]__0]H¥Y¥VZ^ZUZWV^X
@HWI-EAS443:3:40:545:823#0/1
AAACGAGAAAGCTTCTTCTTCTTCTTCTTCAAGCAGT
+HWI-EAS443:3:40:545:823#0/1
abbbbabab_]aaaaa`aaa`a`aaa`X`a_a`Z_a`a]
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+HWI-EAS443:3:40:568:81#0/1
^aaaaab`bXabaaa¥W¥[[]^[\`S]Wa__a¥¥W_X]`_W
@HWI-EAS443:3:40:60:2034#0/1
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+HWI-EAS443:3:40:60:2034#0/1
aabbababba`bbbbabaab`baaaaZa^a_```]Raaaa
@HWI-EAS443:3:40:637:1903#0/1
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+HWI-EAS443:3:40:637:1903#0/1
`baaaaa`ba`_`a_a^aaa`_a¥_`T^¥_¥`]^VZZ_T
@HWI-EAS443:3:40:640:511#0/1
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+HWI-EAS443:3:40:640:511#0/1
H]aaa^`bb``abab`]a`_`bbb_0`[aYaab_RQWaa
@HWI-EAS443:3:40:68:1328#0/1
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+HWI-EAS443:3:40:68:1328#0/1
aaaa]aaaa`¥```aa`aaa^`a_```____[TZXQV^_]`
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+HWI-EAS443:3:40:691:745#0/1
aaaabaabaa`aa``aa`a_a`_`_`QGx^a`__YS]^_
@HWI-EAS443:3:40:738:355#0/1
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+HWI-EAS443:3:40:738:355#0/1
a__^`^`^`^`_]¥]^`^Y_`^^^UPU^]`ZV]ZZZZZW
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CACCCAATCCATTGTCTGCAAATCGCTTGGCGATATGCCA
+HWI-EAS443:3:40:739:1475#0/1
¥Y`_¥¥U]b``b_[E¥Q[^a`]Q[`ZRUPaWWPMTDRBBB
@HWI-EAS443:3:40:754:944#0/1
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+HWI-EAS443:3:40:754:944#0/1
a`abaa`]aaa`_a``aaa`X^```P[_a^YPNY`^^¥_
@HWI-EAS443:3:40:77:577#0/1
TAGGCAAAAAGATAATAGGCCCTCTTTGCGTGCGATTGGAC
+HWI-EAS443:3:40:77:577#0/1
`a¥¥bbb_abbaba````aa`^a_aa]`[[a`¥JU[`Y[`
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TGAGAATGGGAGACCTTCACTACCTCCAGAGCAGAAATGA
+HWI-EAS443:3:40:786:441#0/1
``ab¥UZ^¥^T_[DPPQT¥_YZ^]NR]HTLX[X¥SVZ[`]`
@HWI-EAS443:3:40:799:461#0/1
GCTGTTTCGATATCGAGGCCAAGGGTGTTCCTCTTCCTT
+HWI-EAS443:3:40:799:461#0/1
a^OX]aZQ]WU^aXIVS_^VORVR]GTHF]YSTSJV^^ZR
@HWI-EAS443:3:40:825:527#0/1
GCCGCATTTCTTCAATTAACCACCTTATTTCTCAAATTT
+HWI-EAS443:3:40:825:527#0/1
aa_^a^[¥`Z__^ZS^]OY]RFUY]UNVZ]]X^XTUZ^]

@HWI-EAS443:3:40:886:923#0/1
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+HWI-EAS443:3:40:886:923#0/1
O_a_a¥^^^aa`]^__¥_¥]^]a`^]S]V]¥R_W]Z]Z
@HWI-EAS443:3:40:900:874#0/1
TGCCGCATTTCTTCAATTAACCACCTTATTTCCCTCAAATT
+HWI-EAS443:3:40:900:874#0/1
^aaTaa_] ^¥b`_¥Za`b^¥`^`_Y`OT[¥`a^¥`]Q5X¥
@HWI-EAS443:3:40:922:400#0/1
TGCCGCATTTCTTCAATTAACCACCTTATTTCCCTCAAATT
+HWI-EAS443:3:40:922:400#0/1
aYa`[baab`ba`aaa`^Za[TbZWaaa¥`aa`Za_
@HWI-EAS443:3:40:944:1072#0/1
GAAAGCTCTTATCTCTTGTCTACTTCAAGCAGTAGTTGT
+HWI-EAS443:3:40:944:1072#0/1
a¥a`bb_]ZM^aUaaXaa^`_W^¥R[UTW¥_W^_S_]W
@HWI-EAS443:3:40:976:1236#0/1
TCGCTGGATTCTTCTTTCAAGATCCATTCCACGATTTGTT
+HWI-EAS443:3:40:976:1236#0/1
aa_a`_b_ab__a`aaaaa`aa`_]`_`^a_a_a_]`
@HWI-EAS443:3:40:982:1893#0/1
TGCCGCATTTCTTCAATTAACCACCTTATTTCCCTCAAATT
+HWI-EAS443:3:40:982:1893#0/1
Y_[R_`_]YT[]^`^_`W]^V^`Y_¥^WZWZZ]]_]X
@HWI-EAS443:3:40:98:1028#0/1
GTCGCTTTCAATCTGTGCCGCATTTCTTCAATTAACCACC
+HWI-EAS443:3:40:98:1028#0/1
a_`^_a_```_a^WV¥a`_]¥^_]TR]`ZZ_UL[a___N
@HWI-EAS443:3:42:1034:1966#0/1
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+HWI-EAS443:3:42:1034:1966#0/1
aba_`^a`U^aaa`a`a_aa__`_`^`¥a^^`^R^U]^_
@HWI-EAS443:3:42:1062:672#0/1
GAATGGGAGACCTTCACTACCTCCAGAGCAGAAATGAAAA
+HWI-EAS443:3:42:1062:672#0/1
aaaabba¥a`a`aa`a`^`^Y_`__a_a[`a^`_aa^]^_
@HWI-EAS443:3:42:1083:1319#0/1
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+HWI-EAS443:3:42:1083:1319#0/1
`aaabbbbbbbbbbababb`bbbbbbbb`_bbbbabbb
@HWI-EAS443:3:42:1117:1173#0/1
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+HWI-EAS443:3:42:1117:1173#0/1
ab_aa]WaYZ¥ab`a^^^`a]¥T¥VP_`a¥_`_`^[_a_]`
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+HWI-EAS443:3:42:1125:56#0/1
`bbbbbbbababbabababaabaabbbbbbba_bbbabbb
@HWI-EAS443:3:42:1128:1835#0/1
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+HWI-EAS443:3:42:1128:1835#0/1
^aa`XV]aaa_b_a`]b[]Sa__[a¥a^Za] []a`a`]-
@HWI-EAS443:3:42:1140:1505#0/1
GAAAATATACAGAGATTTCGCTTGGAGAACTGTGATGAGA
+HWI-EAS443:3:42:1140:1505#0/1
a___T`]__¥`a]`]]`]]`]]`_¥X_] ^YX^^TUXYYVVV
@HWI-EAS443:3:42:1147:467#0/1
GCCGCATTTCTTCAATTAACCACCTTATTTCTCAAATTT
+HWI-EAS443:3:42:1147:467#0/1
a__a_`^aa__a`a`a`^_^_Xa__`a_]`^^^`^`^]
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CACCCAATCCATTGTCTGCAAATCGCTTGC GGATATGCCA
+HWI-EAS443:3:42:1164:1558#0/1
aYWQ¥`¥Za__a__[a_a¥¥aaUXS[^_[GPK¥Y¥RYTM
@HWI-EAS443:3:42:1168:868#0/1
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+HWI-EAS443:3:42:1168:868#0/1
aba`P`aa^^[^KY`a]a_a[`V``[_aaa_`^]VY[``a
@HWI-EAS443:3:42:1207:30#0/1
GGGTGTTGCCTCTTCCTTTTAAGGACTTTTGATCTCGGCG
+HWI-EAS443:3:42:1207:30#0/1
abb[baaba^aaaa`^aaba_^aaW_a`^aa_a``_a`_a
@HWI-EAS443:3:42:1222:106#0/1
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+HWI-EAS443:3:42:1222:106#0/1
`b_b_U_bbb]_bbV_a`US`abXa`ba¥baba_^I`_`a
@HWI-EAS443:3:42:1235:1605#0/1
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+HWI-EAS443:3:42:1235:1605#0/1
aaaabbbbabba_ba^b_aba[a[_bbaaaa_aaabaa`
@HWI-EAS443:3:42:1238:1989#0/1
GAGAATGGGAGACCTTCACTACCTCCAGAGCAGAAATGAA
+HWI-EAS443:3:42:1238:1989#0/1
W[b]b_]_¥babS[baaaa]`U`_L_¥]¥YM[a[a`]ba`
@HWI-EAS443:3:42:1239:982#0/1
AGAGATTCGCTTGGAGAACTGTGATGAGAATGGGAGACC
+HWI-EAS443:3:42:1239:982#0/1
`babaaaa_aa^_I]T^] ^aa[___a_aM^__`ZV`_¥¥
@HWI-EAS443:3:42:124:819#0/1
GAGAACTGTGATGAGAATGGGAGACCTTCACTACCTCCA
+HWI-EAS443:3:42:124:819#0/1
`^`Z^WY`Z]_`aa[a¥¥_a`a^`_]_a¥]]¥¥][^]Y[]`
@HWI-EAS443:3:42:1258:430#0/1
GCCGCATTTCTTCAATTAACCACCTTATTTCTCAAATTT
+HWI-EAS443:3:42:1258:430#0/1
`aabaabbaabbaa`bbaaa`aa^ababaa` `a`aaaaa
@HWI-EAS443:3:42:1267:38#0/1
GAATCCAGCGAGACACTTAGAATGACAATTGCATCTGTAC
+HWI-EAS443:3:42:1267:38#0/1
a]bb¥bbbababaaa`baabaabbaa`aaaa_a`_aaY`_`

@HWI-EAS443:3:42:1278:1556#0/1
GGAGAACTGTGATGAGAATGGGAGACCTTCACTACCTCC
+HWI-EAS443:3:42:1278:1556#0/1
Vb^ZXQX`aaV]aa__ba]a[aa_``aa_]U]aa]a_`_
@HWI-EAS443:3:42:1281:1365#0/1
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+HWI-EAS443:3:42:1281:1365#0/1
aaa^V`abb]ba]]Xab¥XJ`]_N_aaba`XQ^¥`]W^`]`
@HWI-EAS443:3:42:1284:1887#0/1
GGAGAACTGTGATGAGAATGGGAGACCTTCACTACCTCC
+HWI-EAS443:3:42:1284:1887#0/1
aaZ__``_]_aI]``]`U`R]X^]_H]X¥Y¥]]^^]YYX^X
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+HWI-EAS443:3:42:1319:1608#0/1
aaaa_`baa]bb_aaaaaa^a`a]aaaaa]`a¥`aaa_a
@HWI-EAS443:3:42:1326:1869#0/1
GAAAATATACAGAGATTCGCTTGGAGAACTGTGATGAGA
+HWI-EAS443:3:42:1326:1869#0/1
a`Za]_aaa`b_]NYaa_Y]`a`YWY__Q_a[`T^`[aU
@HWI-EAS443:3:42:1372:719#0/1
TTTAAGGACTTTTGATCTCGGCGGAGCCGATCAAGGAATG
+HWI-EAS443:3:42:1372:719#0/1
^^^[Q]^`a]T]_^XYaXY[NW^XZ[[RY[[LJZ`VFVR
@HWI-EAS443:3:42:1377:284#0/1
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+HWI-EAS443:3:42:1377:284#0/1
`abaSQ`baYab`aab]a`_V`X_ZV`aaZV[^`^`]]V^
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GTGATGAGAATGGGAGACCTTCACTACCTCCAGAGCAGAA
+HWI-EAS443:3:42:1410:1416#0/1
a_a_`b`^^`_a`¥`UM[[^U_LZ`UY[^^^_V[¥Y¥UY
@HWI-EAS443:3:42:1520:695#0/1
TGAGAATGGGAGACCTTCACTACCTCCAGAGCAGAAATGA
+HWI-EAS443:3:42:1520:695#0/1
babab`¥a`_`]]aaaa_aaa`a`aa`a__a^`_a``
@HWI-EAS443:3:42:1523:1209#0/1
AAGAGGGCCTATTATCTTTTGCCTAGGCATGAGCATGAAC
+HWI-EAS443:3:42:1523:1209#0/1
aabaUa`bbbbbb^a`bba`^^_a^aba`aaab^ab`_aa
@HWI-EAS443:3:42:155:1196#0/1
GCGCGAAGTAGGTACAGATGCAATTGTCATTCTAAGTGTC
+HWI-EAS443:3:42:155:1196#0/1
`aRZZYYYYYPXaP¥_T¥Z_¥XV¥^¥¥S[¥[¥VZ^^^VLZ¥
@HWI-EAS443:3:42:1562:199#0/1
GGTTAATTGAAGAAATGCGGCACAGATTGAAAGCGACAGA
+HWI-EAS443:3:42:1562:199#0/1
ab_aaaaabaab`aaa_b`^`_`a_a_`]_^a[`][]a[
@HWI-EAS443:3:42:1579:607#0/1
AGAAACTGTGATGAGAATGGGAGACCTTCACTACCTCCAG

+HWI-EAS443:3:42:1579:607#0/1
ab`babb`baaaaa`baaaa^a_Z^a_aa^__]_a_`^_
@HWI-EAS443:3:42:1588:380#0/1
CTCTAATCGGTAAAGATTACACTGAAGTCGCTTTCAGT
+HWI-EAS443:3:42:1588:380#0/1
abbbbbba___X¥``_aba[`^a`]¥¥W_V^][_`QY_]`
@HWI-EAS443:3:42:1610:1663#0/1
AACCAGTCTCGTGACATTTCTCGAGGGTCATGTCAGAAA
+HWI-EAS443:3:42:1610:1663#0/1
ab_a^bY^a)]_a_Y`[a`¥_^_Z_^`TWU_[VXZYV¥W`
@HWI-EAS443:3:42:1647:1143#0/1
TGCCGCATTTCTTCAATTAACCACCTTATTTCTCAAATT
+HWI-EAS443:3:42:1647:1143#0/1
aba^__a]^aaaa`aaa`]¥``¥`a^ba`YYa^`[`a`
@HWI-EAS443:3:42:1648:1129#0/1
GCCGCATTTCTTCAATTAACCACCTTATTTCTCAAATTT
+HWI-EAS443:3:42:1648:1129#0/1
abaa]S]baaa_`[GZa¥]_XX[W[aYaa`V[^QNTZ¥¥`
@HWI-EAS443:3:42:1699:302#0/1
CCGCATTTCTTCAATTAACCACCTTATTTCTCAAATTT
+HWI-EAS443:3:42:1699:302#0/1
`ZTYZUaaa^^[`aaaa_XR_^^Y][[RUJ[ZS^^[_]
@HWI-EAS443:3:42:1715:1637#0/1
TGAGAATGGGAGACCTTCACTACCTCCAGAGCAGAAATGA
+HWI-EAS443:3:42:1715:1637#0/1
aaa_`aaa^XYa_[__`Y`Z`^_]_^]_Z^_]^^U^]_Z`
@HWI-EAS443:3:42:1726:226#0/1
AGAAACTGTGATGAGAATGGGAGACCTTCACTACCTCCAG
+HWI-EAS443:3:42:1726:226#0/1
aa_aa`ab^``a^a_`aa`_a]SY_^^]VX]VW[]^Y]
@HWI-EAS443:3:42:1745:1004#0/1
GAGAACTGTGATGAGAATGGGAGACCTTCACTACCTCCA
+HWI-EAS443:3:42:1745:1004#0/1
aab`aaaab`baabaYTZ`a]a_a``_`a_a__`^``____
@HWI-EAS443:3:42:199:676#0/1
TGAGAATGGGAGACCTTCACTACCTCCAGAGCAGAAATGA
+HWI-EAS443:3:42:199:676#0/1
abab]_aaaa`[a`a_`aa`¥a``^X_W]aaaa__a````
@HWI-EAS443:3:42:19:281#0/1
GTAGACTGTTTCTTTGGCATATCCGCAAGCGATTTGCAG
+HWI-EAS443:3:42:19:281#0/1
aQ¥`^`_]X_^MUR¥¥¥THVVTRVVWWP[PTTTT_BB BBB
@HWI-EAS443:3:42:229:1798#0/1
GCCGCATTTCTTCAATTAACCACCTTATTTCTCAAATTT
+HWI-EAS443:3:42:229:1798#0/1
a`^`aaab`abbbaaaaaaba^babaaaaaaa]`aa_
@HWI-EAS443:3:42:238:962#0/1
GCCGCATTTCTTCAATTAACCACCTTATTTCTCAAATTT
+HWI-EAS443:3:42:238:962#0/1
`bb`___babbbba_bba`aX]baaababb_aba[aaaa

@HWI-EAS443:3:42:278:977#0/1
TGTCGCTTTCAATCTGTGCCGATTTCTTCAATTAACCAC
+HWI-EAS443:3:42:278:977#0/1
`^Ua^a`aa[]aa]^aY_aaa`^a_^`aaaa`__``]``_
@HWI-EAS443:3:42:300:1074#0/1
ATGAGAATGGGAGACCTTCACTACCTCCAGAGCAGAAATG
+HWI-EAS443:3:42:300:1074#0/1
Taa[a^^a`bUaaaaY]_Vbb_ba^`baa_]b`aa[```a
@HWI-EAS443:3:42:310:1822#0/1
TGCCGCATTTCTTCAATTAACCACCTTATTTCTCAAATT
+HWI-EAS443:3:42:310:1822#0/1
aababbbbbaaaaaaaaaaab`]baaaabbaa`aaabbaaa
@HWI-EAS443:3:42:311:1682#0/1
GTTTCGAGTCTCTGAAAATATACAGAGATTCGCTTGGAGAA
+HWI-EAS443:3:42:311:1682#0/1
a^_ZU¥aP¥a_K__`S`_NTaXa]`a_X_]UY^`QYX[`_
@HWI-EAS443:3:42:326:589#0/1
CCGCATTTCTTCAATTAACCACCTTATTTCTCAAATTT
+HWI-EAS443:3:42:326:589#0/1
abbabbbbba`bbaaaaaabbaaabbbaaa^_aaaa
@HWI-EAS443:3:42:331:379#0/1
ACCCAATCCATTGTCTGCAAATCGCTTGGCGATATGCCAA
+HWI-EAS443:3:42:331:379#0/1
aa`aba`]`a`__`¥`aa`__`T```]__V]XZ^_
@HWI-EAS443:3:42:332:1809#0/1
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aa`aaaVaa`a`R``__¥[a[_`X`a__a[_`^aP`[X
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+HWI-EAS443:3:42:339:1884#0/1
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@HWI-EAS443:3:42:340:1445#0/1
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+HWI-EAS443:3:42:340:1445#0/1
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+HWI-EAS443:3:42:369:1645#0/1
_`^Z`bab`aaaab^a]_a^`a`¥`_`]````a^_SZ[`¥X
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+HWI-EAS443:3:42:389:1255#0/1
a]aab[ba^``aa_aa_aa¥[aa_^]¥_aa_``S]`¥Xa_
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a^`_aaaV^Qa_aa_`_[_[X¥a^`¥Y__`aZM^_aXFV¥
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+HWI-EAS443:3:42:443:992#0/1
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+HWI-EAS443:3:42:468:978#0/1
a`b^ba`aZT^aXaa`a`a[V[VS]X`_aX¥__^]`V[
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+HWI-EAS443:3:42:529:1213#0/1
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+HWI-EAS443:3:42:659:1585#0/1
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+HWI-EAS443:3:42:680:1859#0/1
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abaaa]b¥baaaaaaa`aa`_aaaa`_aXL¥_____`_aa
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+HWI-EAS443:3:42:705:599#0/1
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+HWI-EAS443:3:42:740:349#0/1
aaaaba_aXaaa]a__aa`a`a_aaa]^^a`^a__a]aY^
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+HWI-EAS443:3:42:761:1853#0/1
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`¥Z__aa_a`¥b[^W[[a[^W_^ZW[Z`_^`[^TPXVRO
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+HWI-EAS443:3:42:820:608#0/1
_`ba^¥^[_P[FGX[`aaV]^U[`TT^^¥[¥a_[X¥ZUVY
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+HWI-EAS443:3:42:827:232#0/1
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+HWI-EAS443:3:42:895:1845#0/1
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`_aaaa`abaSa`_a_aaaa_aaZ¥a`aaa_aYa_aa[_¥
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+HWI-EAS443:3:42:915:1562#0/1
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+HWI-EAS443:3:42:91:1391#0/1
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+HWI-EAS443:3:42:93:220#0/1
a`_Zbaab`baa`aab¥a`aaaa_a`^`a`_¥¥^Za^^`
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+HWI-EAS443:3:42:996:1608#0/1
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aabbababbabaaa^a`b`aaaXaa[_`a_a^a`¥__^¥_
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+HWI-EAS443:3:43:1062:460#0/1
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+HWI-EAS443:3:43:1065:39#0/1
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_Z_aaaab`baa`_aaaa^baZaa`a^__a^a^`_]a`
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+HWI-EAS443:3:43:1345:159#0/1
Q¥_Sab`b_a¥¥¥_bbVbY_Y_¥^]Y[aaaaZH_Z[aU_`
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+HWI-EAS443:3:43:1397:1314#0/1
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+HWI-EAS443:3:43:1407:834#0/1
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+HWI-EAS443:3:43:1410:507#0/1
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+HWI-EAS443:3:43:1423:284#0/1
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+HWI-EAS443:3:43:1444:48#0/1
`b`b]]aab`^a]]`_`_a_aS_]]^¥_]]][X]YU_UT
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+HWI-EAS443:3:43:1506:419#0/1
^X`_]aa_Z_`PU`_Y0[J[_]VT¥`UY^^^[^UQXTR
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+HWI-EAS443:3:43:1509:773#0/1
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@HWI-EAS443:3:43:1535:688#0/1
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+HWI-EAS443:3:43:1535:688#0/1
a[^X`[X]V]_[[R``[^UY¥^`_]_[_]Z_____]WY
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+HWI-EAS443:3:43:1539:1404#0/1
Sab^^X]b¥Z_a^Q]a]a`][a_aUUX¥a_a]XZ____^R^
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+HWI-EAS443:3:43:1599:1809#0/1
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aa`b`aba_aaa_aa`_]aZ_aa`_a`¥[]aa_a¥¥_X[
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+HWI-EAS443:3:43:1619:1145#0/1
a`a_Z^aa^ba`Y`_^Y]^_[Y¥_a`[a__Z]Y[¥_^
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+HWI-EAS443:3:43:1661:448#0/1
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+HWI-EAS443:3:43:1674:265#0/1
aba¥[a^`^S¥`bb]aaaaaba`^¥XS`abZ[^_ [¥]^V
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+HWI-EAS443:3:43:1707:1869#0/1
I_bbb``¥``XX^`bW[b]]abb`b`]¥`b``XH[¥U[_]
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+HWI-EAS443:3:43:1719:2026#0/1
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a^``__aa_aaa]a_Z`]V`]]__``_]`[_`__¥WZ[UU
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¥`TaabbTababab`aaa]SZ^S`[``Ua`_a¥[Z]`PLR
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+HWI-EAS443:3:43:1746:1835#0/1
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+HWI-EAS443:3:43:1774:2012#0/1
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+HWI-EAS443:3:43:217:1676#0/1
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+HWI-EAS443:3:43:264:1573#0/1
a`^aVabbbbaaaa``]ba_aaaa^^a[bV^`aa__¥]^V
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+HWI-EAS443:3:43:300:263#0/1
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+HWI-EAS443:3:43:311:1038#0/1
`M]¥¥_[_X_aY]_YVb_`aY¥a^aUaa__a^_a[```aX
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+HWI-EAS443:3:43:319:1200#0/1
abaa[abbaaababaaabbaaa_aaa`aa`a_aa``^aa`
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+HWI-EAS443:3:43:322:633#0/1
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+HWI-EAS443:3:43:354:1635#0/1
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+HWI-EAS443:3:43:369:30#0/1
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+HWI-EAS443:3:43:378:1111#0/1
aa^a]aaa`aaaa`a_a`_] []a```___a]___]^`]]_`
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+HWI-EAS443:3:43:385:1583#0/1
¥`^HUZb`^a_¥^_^]_aS_]`]]`^]U¥X]Q[N_¥__`]
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+HWI-EAS443:3:43:509:524#0/1
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+HWI-EAS443:3:43:513:840#0/1
a`aa`_`G]Va[___]_¥^¥`^WZWPZV[_Y¥WWW¥WWWUWWY
@HWI-EAS443:3:43:522:335#0/1
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+HWI-EAS443:3:43:522:335#0/1
``_a`a`¥Y`_RY¥a`a`a`_`^`_`aY`Y[TT`__`aa_]`
@HWI-EAS443:3:43:532:341#0/1
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`baaaab¥baaaaba^b^^a`a`aaa`_`a_]`^___`^_`
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@HWI-EAS443:3:43:56:1167#0/1
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+HWI-EAS443:3:43:56:1167#0/1
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@HWI-EAS443:3:43:628:458#0/1
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+HWI-EAS443:3:43:628:458#0/1
a¥¥^^[VZ_YW¥¥Q¥a^_WZP]aVZ`a^Y]ZNZYXW[`_S]
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`bbbababVab_ab_a`_b[b_`a`bYR¥a[___`]a[[_`
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+HWI-EAS443:3:43:667:1688#0/1
aZ^_aaabab¥a_]a]a`_]Waa]]aa_aaaTR_]aa`a_
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abbaaab_a`a`_^^¥aaaa_a`_Z^`aa^^a_]`_]`^Z
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a__[S_]_ZY`^_]aV_Y^]¥0^YGYVXXYXUOUVXY
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+HWI-EAS443:3:43:815:503#0/1
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+HWI-EAS443:3:43:830:646#0/1
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@HWI-EAS443:3:43:864:1627#0/1
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^QWx^]a^]`X`]]_a_a__[W_[¥a^][YXU¥^Y[¥Y
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+HWI-EAS443:3:43:8:1340#0/1
a_aa`^bbaa``_]a_a¥_]_^aaa`a``^aaaa]a``X
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a^aaa]aaa_aab`a`aaa^_a¥^a__aa`]^a__a_a`_
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a`aabb`S`__aa`aa¥`a_¥a__^[a__a[R¥__]Y¥[
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a`V_aaaWa`ab`aaa_bab_a^`^_^^`^^aY__]Y__^
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+HWI-EAS443:3:44:114:1494#0/1
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+HWI-EAS443:3:44:1204:1256#0/1
a`aa_aaa`[]^`XWZ^`]^[_^_a]¥]¥^`^_]Y`ZT
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+HWI-EAS443:3:44:120:1452#0/1
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+HWI-EAS443:3:44:1216:122#0/1
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+HWI-EAS443:3:44:1220:1326#0/1
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+HWI-EAS443:3:44:1225:1939#0/1
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+HWI-EAS443:3:44:1230:1386#0/1
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+HWI-EAS443:3:44:1273:505#0/1
_bbb_ba[b^abTa]Z`ab```_^^`_`a^_a_`^`Y_a_
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+HWI-EAS443:3:44:1295:255#0/1
^ZS_aaa_a)`a)`_^]aa`^a^ZZ_____[-[XV[Z[V`X
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+HWI-EAS443:3:44:1308:1554#0/1
aUa]ZV][_^T`Z`^`¥¥`SX^¥R[P[^[P]VUT]W[VW
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+HWI-EAS443:3:44:1318:739#0/1
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+HWI-EAS443:3:44:1333:932#0/1
`abbV]a_baa]bba__]^ZZa]_^W^`^`b]a`¥a
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+HWI-EAS443:3:44:1335:909#0/1
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^_W¥FZ^`b`aZ_baaa`a]¥P¥^aaa^)`a_a]¥`aa¥
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aba_baaa`b_a_a`aU`YZ^a_____^`¥]^__^_¥_^V_
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+HWI-EAS443:3:44:147:942#0/1
_aaa`ba`U]a`aaa`a)`a__aaa_a_a`_a¥[_aa__^
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+HWI-EAS443:3:44:1567:1770#0/1
Za[_`ORZ^b_bba``bbab_WX_baa_[^ba]]b`a`a]
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aa``_ab]a`__`[a_^`a_[a^]Y]^]¥][VY]YUW[X
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+HWI-EAS443:3:44:1706:1284#0/1
aaaa]ab_a_aa[aaa`_`_aa_a_a^_````]_U`]]^]
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@HWI-EAS443:3:44:191:1158#0/1
CTCTGTCGCTTTCAATCTGTGCCGATTTCTTCAATTAAC
+HWI-EAS443:3:44:191:1158#0/1
a`^abYaU```aabbbaa_XX¥a`Y[]WYaa¥`aa__`a_¥0
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+HWI-EAS443:3:44:198:1491#0/1
_aaabab`^`^]_a]a]__a`¥aa`^a^aa[[¥a[_¥a`a_
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+HWI-EAS443:3:44:203:1435#0/1
aa`¥`aab[^`^aa`a^¥__`]¥^`__a_```_`_`[XY^^^¥
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aaab^`a_a[_b`aa`a_`^a^_`a``____`^____^_]`
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aa]a^^Ua^`_``VaYUQ^aa^_UNYY_X`__XZZ[SSXQ
@HWI-EAS443:3:44:235:80#0/1
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+HWI-EAS443:3:44:235:80#0/1
a``a`_aa`_aa^^_aa`_^^_^^`a^a_a^a_][]a_^
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+HWI-EAS443:3:44:310:405#0/1
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+HWI-EAS443:3:44:325:1150#0/1
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+HWI-EAS443:3:44:327:817#0/1
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+HWI-EAS443:3:44:339:1501#0/1
`_b`_ab[^U__ab_] [bbb^__]a_aa_a_aa_¥] `__
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_SRGS` `UXS`_N]_ST^Z][NY¥XZ[WY^V]__^WSTY
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+HWI-EAS443:3:44:364:739#0/1
¥]Y_aaa]__S_U`RG_WZ]aaYaa`aa_aa`]a`¥¥[[
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+HWI-EAS443:3:44:375:839#0/1
aZ[^^^]_NUa`ZRR`ba_XZa_^ZR]`a`_[aS_[W
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+HWI-EAS443:3:44:399:509#0/1
_Xa]¥`_X_WKV_a_¥]`Z¥Z]_Y]¥]UX¥^UT_]WNNM
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+HWI-EAS443:3:44:433:1421#0/1
a`Z_b` ``a`_`_Za`aaa`]b_aa`a`_]` `[_`_a^]_
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aaab`aa^a_Xaa_a`__`__`^^^[_a[_[_^¥^^^
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¥]a_Va`^` `^] ^aaba` `Za`¥]Z¥V[Va][R[¥¥Y^

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aa`a]ab`baba``_aaa`__a^_____a^``]X`__`_^
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ab_ab]UVY_U^`ZaZ[a_`_`T[]XZ^`]Y]S_]_]aNL
@HWI-EAS443:3:44:653:1329#0/1
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+HWI-EAS443:3:44:653:1329#0/1
a_`T]`¥]_``a]__`S_]__`_¥¥¥V^[]¥[[[WV^V`UW
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+HWI-EAS443:3:44:667:573#0/1
a_[]`aaaaa__``a`a_a`__^__^a[Q]_`_]`]]_Z_Z
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+HWI-EAS443:3:44:675:947#0/1
aaZ_a_a`a_aaaaa[aa_]_U]_^`__[]`W]__^__]
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`V^_a¥`_`S]]YNa_]a^[_`¥]_Ha¥Q_NRW[_WVW
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+HWI-EAS443:3:44:718:1678#0/1
`^_aa_aaZ]__`¥a_^^]]^V¥`[Q[^U^U^_TUWRW¥S
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+HWI-EAS443:3:44:789:827#0/1
aa`aaabbaaabZaaaaaa`a`ab_`_a`a``_a_`^`a_
@HWI-EAS443:3:44:842:26#0/1
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+HWI-EAS443:3:44:842:26#0/1
aa`aaaabW_R`b_b`Zaaaa_a`]^`__`]]¥^¥_¥_W¥_
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+HWI-EAS443:3:44:847:2035#0/1
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`^`_N¥^aaa__VX`__Ya¥[XR[_Z¥¥`Z^[V^[TZ_aX
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@HWI-EAS443:3:44:883:175#0/1
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+HWI-EAS443:3:44:883:175#0/1
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+HWI-EAS443:3:44:957:983#0/1
_`¥Z^TZaa^aaab[Z`a^¥[__N[¥aX¥ZUa_WZZW]QN
@HWI-EAS443:3:44:95:1682#0/1
CTGTGCCGATTTCTTCAATTAACCACCTTATTTCTCAA
+HWI-EAS443:3:44:95:1682#0/1
a`aaa__`bbbbbabbaabba_aaaaaabaabaaaa`a`
@HWI-EAS443:3:44:966:970#0/1
CTCTGAAAATATACAGAGATTCGCTTGGAGAACTGTGAT
+HWI-EAS443:3:44:966:970#0/1
abbbbabaabaab`aaabaa`aa`aa`aZaa`aZa`^
@HWI-EAS443:3:44:967:49#0/1
AGAAACTGTGATGAGAATGGGAGACCTTCACTACCTCCAG
+HWI-EAS443:3:44:967:49#0/1
aaabb`bb_a`ababaa`aaaYa]^[_]Z___¥SX_] [Z]
@HWI-EAS443:3:44:96:1074#0/1
GCCGATTTCTTCAATTAACCACCTTATTTCTCAAATTT
+HWI-EAS443:3:44:96:1074#0/1
a[a]^ba`a¥¥Z[Y¥ZQZ[¥`Y_UTVa`W_]__Q^a`_
@HWI-EAS443:3:44:977:601#0/1
AGAAACTGTGATGAGAATGGGAGACCTTCACTACCTCCAG
+HWI-EAS443:3:44:977:601#0/1
a```]`ab]a^a`^b_`_`^`^`^`[¥`_¥_Y`_¥Y__¥__
@HWI-EAS443:3:44:983:655#0/1
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+HWI-EAS443:3:44:983:655#0/1
aa^NP_]W`WbV`XHL_YZW¥QMTYRUU]UNLN_^]TPW
@HWI-EAS443:3:44:986:1182#0/1
GCGCGAAGTAGGTACAGATGCAATTGTCATTCTAAGTGTC
+HWI-EAS443:3:44:986:1182#0/1
`aa`aaaaXbba¥`aaaaaa_a_a```^aaa_a`a]`_]]
@HWI-EAS443:3:44:997:938#0/1
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+HWI-EAS443:3:44:997:938#0/1
_¥baZH^_Yb¥ab^a[]S^`aZZPLR]^aY¥_¥RNV`WLS

@HWI-EAS443:3:45:1482:745#0/1
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+HWI-EAS443:3:45:1482:745#0/1
_b`a_bab`bb]NV^ba``_baabaabb^babaabaa_
@HWI-EAS443:3:45:1482:917#0/1
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+HWI-EAS443:3:45:1482:917#0/1
^`a_aaa`aa[b_`¥^Z_Q]]YP[_W^_^]]UVWU^_¥_
@HWI-EAS443:3:45:1509:644#0/1
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+HWI-EAS443:3:45:1509:644#0/1
a_bb¥X_a]]b¥]]`abbaa[aXaV`_``]V`Y]¥`^^[T¥
@HWI-EAS443:3:45:1544:1597#0/1
GCCGCATTTCTTCAATTAACCACCTTATTTCCCTCAAATTT
+HWI-EAS443:3:45:1544:1597#0/1
U_bb_¥bbabbba_abbababba_ba_bbb``ab`Vab`b
@HWI-EAS443:3:45:1547:626#0/1
AGAAACTGTGATGAGAATGGGAGACCTTCACTACCTCCAG
+HWI-EAS443:3:45:1547:626#0/1
Z_W_¥Za[F^Wb_P[]SaaY¥U^RUJZ_X[_^RV[MSVW¥
@HWI-EAS443:3:45:1581:117#0/1
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+HWI-EAS443:3:45:1581:117#0/1
a_0^aXY¥abX`bV_]_Ua^Z]^¥a]^SPXT^_0^WUWX
@HWI-EAS443:3:45:1624:954#0/1
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+HWI-EAS443:3:45:1624:954#0/1
_ab`_b^bbabaabab`aaaa_b``_aU¥aU``^V^W__
@HWI-EAS443:3:45:1708:394#0/1
CACTGAGGAGGGAGCAATAGTTGGAGAAATTTACCATTA
+HWI-EAS443:3:45:1708:394#0/1
¥`__a[Q^¥_a¥]__^_¥¥__`¥XUTTY¥`__¥¥UXY`a_
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+HWI-EAS443:3:45:1710:569#0/1
aa0¥TZabba]YNR`YN_T`^PTT`YU[L`NY]SZS_XP
@HWI-EAS443:3:45:1731:65#0/1
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+HWI-EAS443:3:45:1731:65#0/1
abbabaaabbb_b`__aa`_`_`[[`¥_`a¥[V_`VZ^_a
@HWI-EAS443:3:45:1760:658#0/1
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+HWI-EAS443:3:45:1760:658#0/1
U_`TT^a_`^XWW]Ia]WQab^HX^[]`a__`a`X][VXW
@HWI-EAS443:3:45:1765:623#0/1
ATGCAATTGTCATTCTAAGTGTCTCGCTGGATTCCTCTTT
+HWI-EAS443:3:45:1765:623#0/1
aba¥S_aaaIQYa]W]^aa`¥_aGRLIaa^^_aG]^`X
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+HWI-EAS443:3:45:189:12#0/1
aYYa___X`^_a___[^^^Z^Z^^^W¥¥XXXV]ZY]_Z
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+HWI-EAS443:3:45:18:325#0/1
aaaabb`baaabaabab`a`¥^`aaa^`aa_`a]ZV]_¥
@HWI-EAS443:3:45:235:2029#0/1
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+HWI-EAS443:3:45:235:2029#0/1
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+HWI-EAS443:3:45:272:1573#0/1
abbbababa]`a`_`a_a`_U^`_U]aa]a]a_]____]`
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+HWI-EAS443:3:45:277:365#0/1
a_bababbab_aa_bYaaaQa`a`_aa__`_aa__¥__^
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+HWI-EAS443:3:45:297:1786#0/1
aa]^]_aaa__b[L]__^a^a_] [a[^^a_a_XUZ__
@HWI-EAS443:3:45:307:435#0/1
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+HWI-EAS443:3:45:307:435#0/1
a_YW^S`bbaab`a]Z]abYV^_aa``QQ__ZRZ````_a
@HWI-EAS443:3:45:358:1517#0/1
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+HWI-EAS443:3:45:358:1517#0/1
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@HWI-EAS443:3:45:359:1121#0/1
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+HWI-EAS443:3:45:359:1121#0/1
aS`Z_a_H^WW_aPOWQ][[_RWX^STDR]W]TT^YXXW^
@HWI-EAS443:3:45:368:1282#0/1
AAAGAGGAATCCAGCGAGACACTTAGAATGACAATTGCAT
+HWI-EAS443:3:45:368:1282#0/1
`^aaaaaaaa]`aa``aa__`_a_aa`a_a^_aa_W_`a^
@HWI-EAS443:3:45:371:1500#0/1
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+HWI-EAS443:3:45:371:1500#0/1
a_]aaab_aaa^a^`_]a`a`_a__^¥VaVa``a_a``]
@HWI-EAS443:3:45:379:824#0/1
GCCGATTTCTTCAATTAACCACCTTATTTCTCAAATTT
+HWI-EAS443:3:45:379:824#0/1
^T[Z^_ULMYXV[¥SNV00__X__[YUMVWQNPPYW]]QG
@HWI-EAS443:3:45:400:1632#0/1
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+HWI-EAS443:3:45:400:1632#0/1
aaaa`aabab[a`a_a_aaZaZa`YX`_Qaa_]N__`a`_`

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+HWI-EAS443:3:45:410:1546#0/1
aaaaaaaaaba`a_aa`_aa`aa__a__^¥^QT^`YaX`]
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+HWI-EAS443:3:45:470:1470#0/1
aab`babYLaa__aba_b`ab¥]aV`_a`_aa___a^`_
@HWI-EAS443:3:45:503:1266#0/1
GCCGCATTTCTTCAATTAACCACCTTATTTCTCAAATTT
+HWI-EAS443:3:45:503:1266#0/1
a_ab]``a`aaaa_a__`^`_`^aa`a`a¥^`aaV]a_^
@HWI-EAS443:3:45:514:357#0/1
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+HWI-EAS443:3:45:514:357#0/1
a`ab`aaa`_a`___aa`YZ`^^a___a__^a¥_]_^_
@HWI-EAS443:3:45:553:1251#0/1
GACATTTCTCGAGGGTCATGTCAGAAAGGTAGCGCGAAG
+HWI-EAS443:3:45:553:1251#0/1
WYa¥J¥`_a`S`¥V¥abaTY]^X_ZU¥`aP`^KU]_S`a
@HWI-EAS443:3:45:622:1030#0/1
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+HWI-EAS443:3:45:622:1030#0/1
a¥Z]^abbabb^aaaa_]aa^¥baab`a`¥aaa`aa`aY
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+HWI-EAS443:3:45:652:1142#0/1
aabbaaaaa`^a`ZLWa`¥]V]_Z`^^]Ya`^]SV`YV
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+HWI-EAS443:3:45:658:22#0/1
WW[bb`b`¥H]Za_HNX`^_W[OR¥UVZWXUZ[X]a^_L
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+HWI-EAS443:3:45:686:310#0/1
a`aa`__a___a¥_a¥_]`^`__```]_a_____^__WW]Y¥
@HWI-EAS443:3:45:728:241#0/1
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+HWI-EAS443:3:45:728:241#0/1
a[_`_a`_]__^¥^`[¥VT`¥Z^^YV¥WSWX]`]]UM¥]Z
@HWI-EAS443:3:45:733:205#0/1
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+HWI-EAS443:3:45:733:205#0/1
ababbbba`aa`aa`aaaa`a`_`aa_a`_a`_`_a`_¥^
@HWI-EAS443:3:45:739:878#0/1
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+HWI-EAS443:3:45:739:878#0/1
a``Z^_U¥]^P]¥[R`V`_aS^TN_a]aaPU[VG_[X`¥
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+HWI-EAS443:3:45:747:1666#0/1
ab`b]`aY¥baabb^a_a`_`a`a`aaaX`a__]`Waaa
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CACAGATTGAAAGCGACAGAGAATAGTTTCGAACAAATAA
+HWI-EAS443:3:45:761:737#0/1
abbbbabbbbaabaab_`bab`aaaa[abaa`aZaaa`aa
@HWI-EAS443:3:45:780:646#0/1
GAAACGAGAAAGCTCTTATCTCTTGTCTACTTCAAGCAG
+HWI-EAS443:3:45:780:646#0/1
aaa`aaaa`^a¥a^aa]a`a[aaa_a¥`[¥a`_`_a¥_a
@HWI-EAS443:3:45:781:1489#0/1
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+HWI-EAS443:3:45:781:1489#0/1
aba``abJa__aaa_`[Yab^_aaaV__`¥_a`_`a`a]a_
@HWI-EAS443:3:45:788:1176#0/1
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+HWI-EAS443:3:45:788:1176#0/1
`WU¥_aaHW]ba`^`_]TY^R]]___a_[]_`¥¥¥`_`a[
@HWI-EAS443:3:45:795:243#0/1
CCGCATTTCTTCAATTAACCACCTTATTTCTCAAATTTTC
+HWI-EAS443:3:45:795:243#0/1
a`¥`_`bbba_ba¥`_aX^aa_¥SZbbX_a[a`_]`a^[
@HWI-EAS443:3:45:811:47#0/1
TGATGAGAATGGGAGACCTTCACTACCTCCAGAGCAGAAA
+HWI-EAS443:3:45:811:47#0/1
ab`aa_a^]aa_]a_¥^`_`^¥^Z^XSWV¥^^V`YWYUWW
@HWI-EAS443:3:45:817:688#0/1
GCCGCATTTCTTCAATTAACCACCTTATTTCTCAAATTT
+HWI-EAS443:3:45:817:688#0/1
aaab`_aaa_aaaa_aa`__`^^_aa`_aa]^a`_`_a`a
@HWI-EAS443:3:45:853:177#0/1
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+HWI-EAS443:3:45:853:177#0/1
abab_aabbb`aa__`_aa__^__¥^_W`^^a^W¥_]`^
@HWI-EAS443:3:45:855:1031#0/1
GTCGCTTTCAATCTGTGCCGATTTCTTCAATTAACCACC
+HWI-EAS443:3:45:855:1031#0/1
a_aa`^aaa`_`_a`_aXZa^_aaa^a__^`_`_]__Z¥
@HWI-EAS443:3:45:876:1957#0/1
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+HWI-EAS443:3:45:876:1957#0/1
^`aa[¥ba`aba^RF¥]a_a___^aZ]^G¥^__^Y^]^_
@HWI-EAS443:3:45:905:586#0/1
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+HWI-EAS443:3:45:905:586#0/1
`bbaabbabaabbabbaab_aba_aaab`baabaa_aaa
@HWI-EAS443:3:45:910:832#0/1
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+HWI-EAS443:3:45:910:832#0/1
a_a`a^Y_Va]X[¥a`aa]`a`[Y]Z__aV]U]^a`_YX¥

@HWI-EAS443:3:45:95:1276#0/1
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+HWI-EAS443:3:45:95:1276#0/1
abbbba`baaaba_aaaaabaaaaa`ba__aa`b_aa_
@HWI-EAS443:3:45:999:1267#0/1
GAATGGGAGACCTTCACTACCTCCAGAGCAGAAATGAAAA
+HWI-EAS443:3:45:999:1267#0/1
aUa_Za_U_RQN_a_] [__VK^[` [`aXT_¥XKTaV[__¥
@HWI-EAS443:3:46:1048:1558#0/1
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+HWI-EAS443:3:46:1048:1558#0/1
abbbbbbabb]bbbbbaaaaa`bbabbbbbb^bb`bbb_b
@HWI-EAS443:3:46:1049:867#0/1
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+HWI-EAS443:3:46:1049:867#0/1
aaaaa`baaabaa_`a` [`R`aab`^`aa__ZS][L]a^
@HWI-EAS443:3:46:1053:1910#0/1
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+HWI-EAS443:3:46:1053:1910#0/1
`^`VV^a]YU[]_W]^_YP^W][SVa]XFX^¥XTYX`¥
@HWI-EAS443:3:46:1081:655#0/1
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+HWI-EAS443:3:46:1081:655#0/1
abba`_abba`_ab]a`_a^` []a^` `a`¥`a_Y]Z]a[
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+HWI-EAS443:3:46:1139:1212#0/1
ab]aba]Yaaaaa]`aba`a`_a_aa` `aa`^^a`_X`aa
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+HWI-EAS443:3:46:1140:522#0/1
a_a`a_aaa_aaaXW^`XPYa^_]a_^`_^`_`_¥]_^`
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+HWI-EAS443:3:46:1190:660#0/1
a`^]a^`aa_L_Z_X¥¥¥`_]TR`Y[ZYRXSUY^RUUT^
@HWI-EAS443:3:46:1221:1276#0/1
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+HWI-EAS443:3:46:1221:1276#0/1
¥Y_]_LY_a^aX[S[^Z`V¥]RW`^TM^]_¥YW__^`ZVZ
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+HWI-EAS443:3:46:1231:1588#0/1
a[a[`bUaa`_T^[U`]a`Y__^X_Y^_^] ^TV_^ZZTY
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+HWI-EAS443:3:46:1240:566#0/1
aa`a`a_[YW_` [`][`^a_[_^¥` `a`_WR____^____
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+HWI-EAS443:3:46:1259:1076#0/1
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@HWI-EAS443:3:46:1279:2014#0/1
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+HWI-EAS443:3:46:1279:2014#0/1
^Y_b]]aa`aaa¥^^aaaa¥a`^_`a`a[``aaV[[Z[
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+HWI-EAS443:3:46:1354:624#0/1
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@HWI-EAS443:3:46:1362:1223#0/1
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+HWI-EAS443:3:46:1362:1223#0/1
ab__bbaabb`aa`a`^`aaaabZba_]a_YY^`T
@HWI-EAS443:3:46:1366:287#0/1
TCAGAAAGGTAGCGCAAGTAGGTACAGATGCAATTGTCA
+HWI-EAS443:3:46:1366:287#0/1
a^_a__`]W^aWa[aZZ`Z^a_Z]^__Z]]XX_^_YYW
@HWI-EAS443:3:46:1376:794#0/1
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+HWI-EAS443:3:46:1376:794#0/1
]FMYZ]aaQQ`XOQTOS[P`__XRTL`SNV][YWX[MSPO
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+HWI-EAS443:3:46:1387:444#0/1
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+HWI-EAS443:3:46:144:1521#0/1
aXa_`aaaa_aZ[aa[a__`Y`__aaaaSY``P¥]_NX[
@HWI-EAS443:3:46:1450:1579#0/1
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+HWI-EAS443:3:46:1450:1579#0/1
a`_]U]]aV^]¥__PVU_aQ_`]_R^^¥]U]XVRW^Y^`Y
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+HWI-EAS443:3:46:1461:614#0/1
Z_aW_Z¥W]_aabb`^^¥Z]a[_T`X_]`a^ZY^X[ZGW
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+HWI-EAS443:3:46:1485:24#0/1
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@HWI-EAS443:3:46:1490:237#0/1
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+HWI-EAS443:3:46:1490:237#0/1
^^bbbabb`ba__a`aa_aaaabbbabbbab`aabaaa

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+HWI-EAS443:3:46:1493:1469#0/1
aaa`aab_bbaa^aaaa_a_aba_baa__a```aaaa_a
@HWI-EAS443:3:46:1496:2014#0/1
AGAAACTGTGATGAGAATGGGAGACCTTCACTACCTCCAG
+HWI-EAS443:3:46:1496:2014#0/1
a¥]aa_`a^a_____])`_¥`X_]_V¥_[T[V__XV]YY]Y
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aa`a¥ab_a`b_aY`b_a¥a]_X^^^X]^V^^RYY^V
@HWI-EAS443:3:46:1530:1256#0/1
GTCGCTTTCATCTGTGCCGATTTCTTCAATTAACCACC
+HWI-EAS443:3:46:1530:1256#0/1
a_a_¥]abaa`a_`__`__`__`__Z`____¥aa`_]ZZX¥
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TAGACTGTTTCCTTTGGCATATCCGCAAGCGATTTGCAGA
+HWI-EAS443:3:46:1542:1653#0/1
aab`_ab]a`¥_^____Z[`_`_`_¥¥_URYY^¥_XWUQV
@HWI-EAS443:3:46:1665:1328#0/1
GAAACTGTGATGAGAATGGGAGACCTTCACTACCTCCAGA
+HWI-EAS443:3:46:1665:1328#0/1
^_¥a[^_V_W^b]^RT_a`Z_Ua_^_a__[V_V]_]`Q
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GAATGGGAGACCTTCACTACCTCCAGAGCAGAAATGAAAA
+HWI-EAS443:3:46:1672:999#0/1
a`aaaa`Ya`__`_a_aa_]_¥]^_Y`^^`]]^`_]`]]`
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GCCGCATTTCTTCAATTAACCACCTTATTTCTCAAATTT
+HWI-EAS443:3:46:1704:327#0/1
a`aa__a__Y`_`__`____[]^][_]^]^W]]]_^Z
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GCCGCATTTCTTCAATTAACCACCTTATTTCTCAAATTT
+HWI-EAS443:3:46:1714:283#0/1
_Y_b_¥_]_]aa]Z0]_____Zaa¥a`T_a`_WZ¥]_
@HWI-EAS443:3:46:1739:850#0/1
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+HWI-EAS443:3:46:1739:850#0/1
__^Zb¥^]aa^Y[`b`_W_`¥]_]`aaa]^0_`¥`W]V^
@HWI-EAS443:3:46:1773:162#0/1
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+HWI-EAS443:3:46:1773:162#0/1
_^XT]X¥aYXQ^_YZZQTUHR[XZ[QVMVRWRQVP[TXB
@HWI-EAS443:3:46:272:941#0/1
AGAAACTGTGATGAGAATGGGAGACCTTCACTACCTCCAG
+HWI-EAS443:3:46:272:941#0/1
ab`_]_[aa]b```_a__a__WV_^]_^^]]_`^_W_]_
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Y`bbabaaa_aaa`bVa`aaWbaaaa]baaabbbbaaaba
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abWaa`bb^__aa_a]_abaaZa^U[_[_V^^]]__YV`
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+HWI-EAS443:3:46:40:1242#0/1
ababbbbaaa_aaabaaaababaaaaaaaaa_aaaaa^aa
@HWI-EAS443:3:46:414:967#0/1
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+HWI-EAS443:3:46:414:967#0/1
aaaa_`b0aa_Qa_abIa`_`_aYaa]aa___a`P`Z_0]^
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+HWI-EAS443:3:46:434:532#0/1
aabababbaabba`abaabb`aa_aaa`a]aaa``_aaa`
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+HWI-EAS443:3:46:447:1337#0/1
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+HWI-EAS443:3:46:481:1130#0/1
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TGAGAATGGGAGACCTTCACTACCTCCAGAGCAGAAATGA
+HWI-EAS443:3:46:487:983#0/1
aa`^V[aa`a`_[_`^`_¥`a`^`_]`__Z^`¥Z`_`_¥
@HWI-EAS443:3:46:492:1516#0/1
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+HWI-EAS443:3:46:492:838#0/1
`a`a`^aaaWa^aa¥a¥`_a__Va_Z_¥`_`_^]ZYWWW¥
@HWI-EAS443:3:46:49:1137#0/1
GAGCAATTGGGACAGAAATTTGAGGAAATAAGGTGGTTAA
+HWI-EAS443:3:46:49:1137#0/1
a¥aa`aaa`_^[_`aaa`aaa`a_a`___a__aaWa`Y]¥¥
@HWI-EAS443:3:46:50:571#0/1
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+HWI-EAS443:3:46:50:571#0/1
aXR`][a[a`]`_aQNY`_]N]XVY¥S][Y^^VJV_¥YYW
@HWI-EAS443:3:46:59:214#0/1
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+HWI-EAS443:3:46:59:214#0/1
a`_X^aaaaaZVV__^TUT`_Z`_¥^[]GW[N]Z^[_^^^

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^`aba_aVHa`aZ`a`]]`YUYa`[VT`^S_[]a_]_a
@HWI-EAS443:3:46:637:861#0/1
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+HWI-EAS443:3:46:637:861#0/1
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+HWI-EAS443:3:46:644:551#0/1
a^baabbaaaa`_a]a[`a_aa`_``_`_¥`aa¥`_Xa_^_
@HWI-EAS443:3:46:653:952#0/1
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+HWI-EAS443:3:46:653:952#0/1
R`a¥]ab`[`a[_^a_¥Z^a]U_a[T`_WTRbb^^_a`_
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+HWI-EAS443:3:46:692:1332#0/1
^¥a^aZ[aaaaS[Waabaaaba`aa`[`a`_`¥a`_`_`_`
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+HWI-EAS443:3:46:756:1320#0/1
_`bbba`aab[aaaa`^X_aa_a]_`Z^`_¥a¥`_UZ_YV
@HWI-EAS443:3:46:768:273#0/1
GAAAATATACAGAGATTCGCTTGGAGAACTGTGATGAGA
+HWI-EAS443:3:46:768:273#0/1
a`U`aa_baaab`W`aa`__aa^a¥^[^`U]¥^`V`W
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ATGAGAATGGGAGACCTTCACTACCTCCAGAGCAGAAATG
+HWI-EAS443:3:46:771:870#0/1
^a^`¥]__b[TSZ_SZ_0¥_R]UU]J_YXQR]WX_ZS^T`
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+HWI-EAS443:3:46:788:87#0/1
XRbaaabbb]b^`_`_aa`_TVa[aa[0^Zb_ZbX[aaaW[
@HWI-EAS443:3:46:855:1481#0/1
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+HWI-EAS443:3:46:855:1481#0/1
aaa`a__`a_aaa`aa_^_a`__a_a`_`^__]Y]a_`
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+HWI-EAS443:3:46:879:1247#0/1
W`b``_`^^[Y_NRYa0[GV^`^`VPRY`SV¥U][]¥TO
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+HWI-EAS443:3:46:909:1820#0/1
^0]__W_b`_a_a_a`_`]X]___a`_a_^VYU^T[`
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+HWI-EAS443:3:46:90:1073#0/1
aaa`aaaaaa`ba_b_a^¥`_`[X¥¥Xa_a]``]__Z
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+HWI-EAS443:3:46:911:1883#0/1
__aabbb`bbbb_b¥aaa_a]^^]aa`a_V_`RZ_]^Wa_
@HWI-EAS443:3:46:919:2041#0/1
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+HWI-EAS443:3:46:919:2041#0/1
aaa_aab`_a___`a`a_a__`¥___[___]¥`W¥^Y¥YWU
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+HWI-EAS443:3:46:94:626#0/1
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+HWI-EAS443:3:46:956:1548#0/1
]Ua_]b_baaa`a__a_a`¥aa]P`¥__[___]___^a`_`_
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+HWI-EAS443:3:46:95:660#0/1
WTQ_aZX`WT_`]YV[T_Y`Y^^W^_^TDY[¥__H^[UZa
@HWI-EAS443:3:46:960:1122#0/1
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+HWI-EAS443:3:46:960:1122#0/1
a¥_]bbY_`b`a]TaaVa_baaaa^X`Raaaaab_ab_aa
@HWI-EAS443:3:46:96:397#0/1
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+HWI-EAS443:3:46:96:397#0/1
_X`b]a_W¥_]`_`¥_X`ZZ¥_a]^`_OZ¥]]W_Z¥U[[V[
@HWI-EAS443:3:46:973:225#0/1
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+HWI-EAS443:3:46:973:225#0/1
a_]ZX_a¥b_]`_`_SP_a`TPa[SPX0]Z[]YYXVXYOYS
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+HWI-EAS443:3:46:977:1382#0/1
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abba`Y¥aa`^`\_]Zbaabaab`aa`Za``a\_aYaaaaaa  
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+HWI-EAS443:3:47:1076:430#0/1  
aaaa\_a`a`\_a]bY^\_\_S`WVP¥R]ZW]]XR¥`^]ZX¥^Z  
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+HWI-EAS443:3:47:1106:781#0/1  
`a`a\_bbba]babbaaaa]a[abbba[Xaa`\_a[aY][P



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+HWI-EAS443:3:47:1140:1652#0/1  
^¥\_XZ\_bYF]a^SR¥Y^¥¥]W^Y\_bbb\_^\_aa`a`abbb`  
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+HWI-EAS443:3:47:117:1531#0/1  
aaabb^Y]]ababa`aabb^\_aaaaaaaa`aabaa`a  
@HWI-EAS443:3:47:1182:330#0/1  
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+HWI-EAS443:3:47:1182:330#0/1  
]U^bab`bba`bb^\_^`aabaa]`Z`aV^aJa¥V\_N`a[\_  
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+HWI-EAS443:3:47:1183:981#0/1  
^bbabbbbaab`aaba`a\_\_a^^`a\_\_aaa```¥^`a`  
@HWI-EAS443:3:47:1191:496#0/1  
GTCGCTTTCAATCTGTGCCGATTTCTTCAATTAACCACC  
+HWI-EAS443:3:47:1191:496#0/1  
a`aa\_aa```aa\_a`¥a\_]a[\_a\_a^\_]^^`¥X¥VP  
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+HWI-EAS443:3:47:1232:879#0/1  
aaaaaaaa`[`aa¥[¥a\_\_\_]`a^\_\_\_`^[X`W¥Y`Y^^  
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+HWI-EAS443:3:47:1262:995#0/1  
abaab¥bbab`b\_a\_b`ab`ba`aab]ab\_aaab\_a`aa  
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GAGAATGGGAGACCTTCACTACCTCCAGAGCAGAAATGAA  
+HWI-EAS443:3:47:127:200#0/1  
`]aa`Z\_GL]`\_\_`ZZP¥\_\_[[U`Z`T^ZW\_ZWVV]ZW  
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+HWI-EAS443:3:47:1320:151#0/1  
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a`V^b\_aababa\_aaXa`YaZ]\_\_`a\_\_\_`[a^\_Sa`^]  
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+HWI-EAS443:3:47:133:1322#0/1  
aa\_a`\_I\_`Ua]`b^aa^Y`ab\_`a`¥a\_[V\_aaa\_a[  
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+HWI-EAS443:3:47:134:2030#0/1  
ab\_`abbb]aa\_ab[aa]WH`\_`\_aa`a`a[]a^\_YFT  
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+HWI-EAS443:3:47:1368:574#0/1  
aaaa`aa\_]\_\_\_aaa`aa`\_¥^¥\_a```\_a\_\_a\_aY^`  
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+HWI-EAS443:3:47:1381:921#0/1  
¥``Sa`¥`bbaQ\_a\_L\_X^`a`a]a^\_XWaUa]\_b\_a\_a^  
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+HWI-EAS443:3:47:1435:1791#0/1  
aaba\_ba`aa¥]\_^\_^^\_^]\_Y\_]^^^¥\_]^]\_^]Y]]  
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+HWI-EAS443:3:47:1443:745#0/1  
aaa^`aa\_a¥aa`]`aaa¥\_X\_^]a`Z\_``^U\_\_^]\_^^  
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+HWI-EAS443:3:47:1469:1422#0/1  
]bb`\_`Z`a`Z```[aa^WZ`Y`\_a\_\_]aXY¥U]0^]]U  
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+HWI-EAS443:3:47:1475:713#0/1  
``bbabaaa^`babba\_`aaaab`ZXZa`a`a```¥[]\_[]  
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+HWI-EAS443:3:47:1516:759#0/1  
aa^a`a^aX¥\_a\_Uaa\_]aY`\_¥\_\_VP^`[\_S^^[U`¥\_a^  
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+HWI-EAS443:3:47:1519:608#0/1  
aaa[`a\_bb`b`aa`a¥`a`a`^`\_a^^V`\_V\_Y\_\_UV`^V\_  
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a^[bY[X[UU\_Y[]]W\_ZGYVQW^XLYU]X\_`]LRYXXT[  
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+HWI-EAS443:3:47:1555:102#0/1  
abab`aabbb\_a\_\_[]`¥\_¥\_\_VZ^^V[\_W^UW^XWV[\_Y  
@HWI-EAS443:3:47:1557:2030#0/1  
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+HWI-EAS443:3:47:1557:2030#0/1  
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\_`b`]b`abaaa\_a\_a`ab]`¥^^X`\_]`\_]F^\_a\_GP\_

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aa`baabbbabb`a`aaaa\_``]aaaaa\_¥aaa\_aa``  
@HWI-EAS443:3:47:1630:264#0/1  
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+HWI-EAS443:3:47:1630:264#0/1  
a\_a`ab`ab\_a\_\_\_\_\_a\_]`^\_]^[^`]\_^]]^]Z\_ZTY  
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+HWI-EAS443:3:47:1636:863#0/1  
`]aaabbaaaaaab`a`ba]`aYa\_`a^aaa\_`\_`^a`U^  
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+HWI-EAS443:3:47:1647:875#0/1  
a`a``aa`aaba\_a`aaba\_]a]]V\_\_\_\_\_]^\_]`^^[]Y]  
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a`aaabbb`\_bbaa``aaaa`a`aa`aa`\_\_a]`\_aaa`  
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+HWI-EAS443:3:47:1687:252#0/1  
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+HWI-EAS443:3:47:1754:1798#0/1  
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+HWI-EAS443:3:47:1776:572#0/1  
aZ`baYZR\_]\_Z¥[[`a]^MYa\_\_`a\_\_`SZa\_]Z^^\_]`  
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+HWI-EAS443:3:47:1777:521#0/1  
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+HWI-EAS443:3:47:1782:588#0/1  
aa\_baaaa`\_Y[\_]a`\_[Ya[[`a^R\_`[^¥aa]]S\_\_WP  
@HWI-EAS443:3:47:211:328#0/1  
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+HWI-EAS443:3:47:371:1403#0/1  
aa\_\_\_a[``\_¥a\_\_\_]Z¥\_X\_`\_]`]^\_Z`X]W\_V^]  
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S``bV``a`a\_\_U^U^U]ZRZ¥VL\_b``a]```¥`aba^R  
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+HWI-EAS443:3:47:590:890#0/1  
a`]U]`¥a`\_Y\_Y¥a]\_¥\_\_Y\_]\_\_\_^]]]]^\_[PS^Z¥]

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+HWI-EAS443:3:47:667:331#0/1  
aa`a\_b\_\_\_a\_a`\_\_X\_a`\_a[\_`\_^`^[\_]V\_XX`VVY\_  
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+HWI-EAS443:3:47:728:834#0/1  
ab\_`aa[baa\_aa^`a\_aa\_\_a^a`\_^`a^I^\_YZS[[[\_  
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+HWI-EAS443:3:48:1040:1813#0/1  
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¥\_b]Z¥¥bababa`abababbaVaaaab[bX`ba[`ab` [  
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\_ZW`YR`a`\_a[V¥]U]\_Y^]US`^\_ZYXOX^ZUXY¥[W  
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]`〕`Ya`aaa`aaa^[^Z^`\_a^`\_]VVXP]]S]  
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+HWI-EAS443:3:48:502:1577#0/1  
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+HWI-EAS443:3:48:568:1198#0/1  
aZ\_^\_\_a]^W`\_VW¥`a`\_\_SX^[\_] []]a¥`\_^W^U¥¥  
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GAGAACTGTGATGAGAATGGGAGACCTTCACTACCTCCA  
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\_Uba[baaa`\_`b]¥a`aaa`\_`^]]`]]aY\_\_SZ^]]¥

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a^aa`aa\_]a\_\_aaa\_\_`a`U\_`^`a\_`^^a^Xa\_YU  
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+HWI-EAS443:3:48:59:474#0/1  
U`¥aa\_XZa¥YTRFR\_]\_a]Z\_¥¥`¥YYYW¥\_U`YS^]VV  
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+HWI-EAS443:3:48:614:924#0/1  
ZXIY^ab\_b\_a`YSab`Z\_b`ZQX\_\_Ya^aQY`UaabaZY  
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+HWI-EAS443:3:48:630:1730#0/1  
^OHU\_aba]`\_`````a]a^`R[aaa\_\_a[``\_a\_\_`\_Y  
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GCTTTCAGGTAGACTGTTTCCTTTGGCATATCCGCAAGCG  
+HWI-EAS443:3:48:634:1558#0/1  
aaYa`\_\_ba¥\_aYSba`\_[\_\_aa\_^]Q\_aY\_W]\_Y^\_]R`  
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+HWI-EAS443:3:48:63:1316#0/1  
a^WQ\_]a\_P[a``]aaaaa`\_a^\_\_a\_^a^`\_]\_\_^\_]`  
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TGAGAATGGGAGACCTTCACTACCTCCAGAGCAGAAATGA  
+HWI-EAS443:3:48:656:319#0/1  
^]`\_`]S\_ba\_`\_`\_\_\_\_W¥\_`\_[Ya^\_]`U[^WW¥\_\_]  
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+HWI-EAS443:3:48:729:806#0/1  
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GGAGAACTGTGATGAGAATGGGAGACCTTCACTACCTCC  
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¥a^¥^YR\_[\_`Zaaa`¥`aZaa]Y^XYT`\_U¥VaaVS¥X[  
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aa[`abaa`aa\_Z\_TYa``]]`]U\_\_]\_\_\_\_\_X]\_\_U^^  
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a^a`abbbY[abb\_\_^b`baaaaaa``]Z`aZQZYZ][[]  
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aaaaaaaaaaaa`aaaa`abbb\_ba`[\_aa\_\_^]a```^^  
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aY^a`[aV\_``\_`^\_`¥\_]¥\_W\_\_\_Z\_\_\_aW¥\_SZ¥Z^  
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+HWI-EAS443:3:48:988:313#0/1  
ab\_a]\_aaaa[a`\_^`a^`\_]^^]\_\_^\_\_X\_U)`Y^Y`\_Y  
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a`Yb^a\_baaaa`a¥^\_`^`a\_^[\_X^`^HY\_^^^VVV  
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+HWI-EAS443:3:49:1153:948#0/1  
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ab\_a`aa\_a`¥a\_ab\_aY`a\_aa``aaaa\_[a`a\_^[a\_`  
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+HWI-EAS443:3:49:1248:1806#0/1  
aaa\_`a\_\_\_Ya\_`Xaa\_a[[\_¥\_¥¥^\_W\_T¥\_^Y^\_\_^^  
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GCGCGAAGTAGGTACAGATGCAATTGTCATTCTAAGTGTC  
+HWI-EAS443:3:49:1258:1783#0/1  
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\_``¥[`a`bbbUaaabb¥]]\_aaa^Za^¥a]¥aZaT[Za`  
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aX\_`[\_`\_baX\_XT`aaabZX]\_^Zbaa`a\_X¥a^RY]a\_`  
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+HWI-EAS443:3:49:1365:1742#0/1  
a]]^aa`bb^b^a^^\_aaabaa\_a\_\_`^^\_a¥`^¥T\_]SZ  
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CACGGTTCGAGTCTCTGAAAATATACAGAGATTCGCTTGG  
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OaZa\_aabbab`abaXa]aaabbaaa`b`aaaa`^\_a^^[  
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aaaa\_aa\_b\_aa\_¥^`aaa\_[`\_UXaZV\_¥^\_US^¥¥^\_[  
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+HWI-EAS443:3:49:1554:1235#0/1  
[`¥¥\_abb¥b\_V\_a¥Z^^`a`W`\_aY\_U]ba``^^`a¥]a  
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¥\_^b]abb\_bbabaa`aV]\_aZa\_^^aa\_a``a`]^[`\_a

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a\_ab`^aa` `a¥^^Zb` `a\_\_a\_a\_\_^^`\_\_\_\_`^^`^^Z  
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CTTGGAGAACTGTGATGAGAATGGGAGACCTTCACTACC  
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GT`¥^ZX`¥Y\_b^bb¥ZU\_¥a` `a]H\_ab`\_`a`]Y]]^  
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¥`aabba`b`\_aabbbb]babbb]baaabbaaaaa` `]`aa  
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aaaa`bb\_aa\_ba\_]a`\_aa`\_a`a`Y`\_a\_aa`a^a`¥]  
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aaab`aabba]ba\_ba`^`[ `\_] [ZY^aa[a\_aa\_\_\_aa`  
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+HWI-EAS443:3:49:1693:931#0/1  
`b\_baaab` ` `b^M[ `a^[U^`ZW`\_¥[\_Z`^a^¥¥` `X  
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abab\_a`b`aaaab^aaabaaaa\_aaYa^\_`a\_a``aa  
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+HWI-EAS443:3:49:403:1448#0/1  
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@HWI-EAS443:3:49:499:438#0/1  
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+HWI-EAS443:3:49:499:438#0/1  
\_`aaabaa`aa\_aWbaaa`a`]^`^aaa\_a`\_``]\_\_]VU\_



@HWI-EAS443:3:49:500:2028#0/1  
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]aU\_bbbbababa^a]]`aaa^Z\_WZab\_¥Y\_aaaVV`aab`  
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+HWI-EAS443:3:49:568:449#0/1  
^)`[Waaaaab`¥¥`aaa[a`XX\_`^`^^^a^`[a^`\_\_\_\_¥[  
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+HWI-EAS443:3:49:579:1118#0/1  
`b`\_`\_`a\_b\_baaaaZa^R`a^^aaY\_aa\_\_\_\_[^`^LXK  
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+HWI-EAS443:3:49:624:1417#0/1  
]a`^a[^`a`ab\_bab`b`bbb^Kab`bbaa]aba^bbbb  
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+HWI-EAS443:3:49:631:590#0/1  
`ba\_babaV^)`^^bab`a^^`X¥]`WRZaa\_\_`a^a¥  
@HWI-EAS443:3:49:728:634#0/1  
GAAACGAGAAAGCTTTATCTCTTGTCTACTTCAAGCAG  
+HWI-EAS443:3:49:728:634#0/1  
aaba`aab`\_`a`\_`ba\_b^a\_`aaa^a`aa^aa`\_`\_`\_`  
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+HWI-EAS443:3:49:736:1486#0/1  
a\_\_Sbbba`baab¥bb`\_aaa[Ya]\_aba¥`aaa`]ba]]  
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+HWI-EAS443:3:49:751:55#0/1  
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+HWI-EAS443:3:49:764:1957#0/1  
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+HWI-EAS443:3:49:79:692#0/1  
Zaa\_aaVa`]]b`Z¥`^`¥Y[b`bbb`^b`aa^¥a^`b\_  
@HWI-EAS443:3:49:820:417#0/1  
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+HWI-EAS443:3:49:820:417#0/1  
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@HWI-EAS443:3:49:864:1101#0/1  
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+HWI-EAS443:3:49:864:1101#0/1  
aaa]aaa`a\_`aaa\_¥a`\_`aaaa`\_a`Z^Ya\_a\_Z]^Y\_  
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+HWI-EAS443:3:49:883:240#0/1  
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@HWI-EAS443:3:49:888:672#0/1  
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+HWI-EAS443:3:49:888:672#0/1  
\_W\_ZR¥\_G\_\_YXVX`PY\_XX¥XFIJS[\_ZSYXNOYVWL]M  
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+HWI-EAS443:3:49:892:962#0/1  
^¥\_\_bbbaX^a]b]Z`baaaaS`^baaa\_b¥VXXa\_]U¥  
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+HWI-EAS443:3:49:919:739#0/1  
¥b\_b\_Z`^\_bb`[^bbZ^a¥¥a\_[a^bbabbaabaa]^  
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+HWI-EAS443:3:49:921:1472#0/1  
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+HWI-EAS443:3:49:980:1615#0/1  
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+HWI-EAS443:3:49:981:148#0/1  
a\_aa[\_`aba`^\_\_a`bU`[\_`a¥a\_Y]`aT`\_X`[[P`]  
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+HWI-EAS443:3:4:1022:1826#0/1  
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+HWI-EAS443:3:4:1069:1083#0/1  
abaab\_\_abbaabaaaab`\_a`aab\_aaa`\_a\_aZ`aaa^  
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+HWI-EAS443:3:4:1079:224#0/1  
a^`^^\_a0a\_X\_\_aX]^`\_]Z^Z]]VZ\_ZZ]`XZ^U0]  
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GGGAAACAAATCGTGGAATGGATCTTGAAAGAGGAATCCA  
+HWI-EAS443:3:4:1099:619#0/1  
abaR¥^¥ZW¥^`\_V\_]OW¥`^Z`\_aaaaZ[\_\_\_aa]\_`U]  
@HWI-EAS443:3:4:1151:1300#0/1  
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+HWI-EAS443:3:4:1151:1300#0/1  
aa`^aaaaaaa`\_aab]^a\_a^a`]]\_a\_X`aX^\_\_X\_\_^  
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+HWI-EAS443:3:4:1167:270#0/1  
aa`^b``baaaaa\_aa^aaaaaa^[\_¥X``\_a``XVa^\_\_

@HWI-EAS443:3:4:1168:1384#0/1  
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+HWI-EAS443:3:4:1168:1384#0/1  
a`bba]ba\_bZbb\_ba^baa`aa`\_\_a`U[``^``aa][  
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AGCAATTGGGACAGAAATTTGAGGAAATAAGGTGGTTAAT  
+HWI-EAS443:3:4:1179:1153#0/1  
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@HWI-EAS443:3:4:1226:1659#0/1  
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+HWI-EAS443:3:4:122:272#0/1  
aaaabbaabXa`UPS^a``[^aVY¥¥a\_aa\_TSWQ\_`]^¥  
@HWI-EAS443:3:4:1235:631#0/1  
GCGGCACAGATTGAAAGCGACAGAGAATAGTTTCGAACAA  
+HWI-EAS443:3:4:1235:631#0/1  
a¥aa]^a`\_\_\_`Z[^[Z\_]¥¥¥\_]^Y]]WZW^T]^  
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+HWI-EAS443:3:4:1264:531#0/1  
aab\_]Y][a¥\_\_`YODUa¥[]`^]\_\_[XU\_]^[[P^Z  
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aba`aaabSb`aa\_bXabbab\_bTHXa`^ZMQXH¥\_`RT[  
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+HWI-EAS443:3:4:1330:615#0/1  
aTa\_\_¥D¥\_\_aa][^XV`W[`V\_[Y\_X^UU`V¥\_X]]VWB  
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+HWI-EAS443:3:4:134:1066#0/1  
aab\_aaa`]^baaaaaaaaaaaaa\_aaa\_a^`^¥aa[``^a  
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a^[^UXXY`aRW][a^a\_¥Ta[[QX]]RYRP^^^UWTVUB  
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+HWI-EAS443:3:4:1420:1442#0/1  
aba`a`aaab`aaaa\_aa^a^\_a`\_a^\_[X`\_Z`]\_\_YZ  
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+HWI-EAS443:3:4:1450:1710#0/1  
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+HWI-EAS443:3:4:1452:522#0/1  
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+HWI-EAS443:3:4:1483:181#0/1  
ab]b``abaa^a`]¥]\_\_Y^^XWXY`\_^]XXaUU]^`X  
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+HWI-EAS443:3:4:1499:211#0/1  
^aZ¥a`\_¥\_a^`a\_¥U\_b]]Y[]U\_[^H[[[\_]]Z¥^B  
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+HWI-EAS443:3:4:1596:1715#0/1  
a]^a\_Ja`Qaaabaa``abaa`b\_\_\_\_a[Ua]aOGT\_WJX^  
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+HWI-EAS443:3:4:1603:766#0/1  
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ab\_`\_VVbabY^b\_bX]baWovYVVQ]W^¥K^`]NVTTB  
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TGAGAATGGGAGACCTTCACTACCTCCAGAGCAGAAATGA  
+HWI-EAS443:3:4:1624:348#0/1  
`b```\_`\_aa\_[\_\_XX^W\_a]\_`YU\_X^^^U^RU\_X]XXXB  
@HWI-EAS443:3:4:1639:852#0/1  
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+HWI-EAS443:3:4:1639:852#0/1  
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+HWI-EAS443:3:4:1646:169#0/1  
a`baaa`ab`a`a`\_`\_`^b]X^`\_\_^^\_`^Z\_\_S\_X]W]]

@HWI-EAS443:3:4:1661:294#0/1  
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+HWI-EAS443:3:4:1661:294#0/1  
^]Z\_a[ `[DY]W\_T`W`a[]`ZOF0^RWWBBBBBBBBBB  
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+HWI-EAS443:3:4:1700:1476#0/1  
a``a^a^ab\_a^`\_a`b`a^a\_]a`[\_^`W\_\_]]\_[^\_Z  
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`a^YM\_VbY^ZS\_U`a][bRL^SX\_[[TNT¥¥]`\_\_`S`  
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+HWI-EAS443:3:4:1745:1482#0/1  
ab\_a\_`^RXPX`bYa]`b[ZXZ¥^a\_]`\_VGZ]\_VLV]UW  
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`\_Yaaa^¥][`aa\_Xa^\_a]aT`Y^a^\_Z\_Y`Y¥T]`Z  
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+HWI-EAS443:3:4:343:1195#0/1  
`b``aab^^ab]V`\_\_¥`\_\_\_\_\_^^`\_`\_`\_¥`a`\_^a]  
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+HWI-EAS443:3:4:391:717#0/1  
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+HWI-EAS443:3:4:447:996#0/1  
aaaV[Va`aa][Q`\_[]]N```\_YZQU\_^]]Z\_^R`QB  
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+HWI-EAS443:3:4:451:1583#0/1  
a`b]baaa]a\_aXa¥aaa][^`]aXUYS``W``\_X]YU  
@HWI-EAS443:3:4:531:1728#0/1  
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+HWI-EAS443:3:4:531:1728#0/1  
aa``aa\_aaaaa`\_a`a`X\_[]\_]``Z\_^a\_\_\_\_^a\_a`]  
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GTCGCTTTCAATCTGTGCCGATTTCTTCAATTAACCACC  
+HWI-EAS443:3:4:556:2034#0/1  
aWG^a\_X\_X` `[S`¥]¥a]^Z\_¥\_\_I]V\_]^^ZX\_]X  
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+HWI-EAS443:3:4:649:1609#0/1  
a[ ]\_`ZPaa`^aZ^`V[^[^\_^\_]^\_P]SW`¥[]^\_  
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+HWI-EAS443:3:4:691:1505#0/1  
^W\_b`abab`\_baaVb`aaa\_a` [M`a]aXa\_]¥\_]\_\_`  
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+HWI-EAS443:3:4:757:112#0/1  
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+HWI-EAS443:3:4:757:808#0/1  
aba\_a\_aa^a`a]a`^aa` [aVV]\_]\_U\_\_^V\_^X^^  
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`\_a`aSVU\_YL]\_Z[^\_X^TUY\_aR]^]\_U`][SY]]BB  
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+HWI-EAS443:3:4:808:447#0/1  
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@HWI-EAS443:3:4:813:468#0/1  
GCCGATTTCTTCAATTAACCACCTTATTTCTCAAATTT  
+HWI-EAS443:3:4:813:468#0/1  
a^]a`a`a\_\_a`¥^]a\_aa¥\_^`a\_\_a^` [V\_\_^]^^`  
@HWI-EAS443:3:4:821:737#0/1  
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+HWI-EAS443:3:4:821:737#0/1  
abbXaaaaaaaaa\_b\_\_a\_\_aXa`\_a]\_]`^a^\_^NZ^  
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+HWI-EAS443:3:4:831:317#0/1  
aabb\_a`aaaa¥````a`a`\_aZZ`^a^^\_Z\_\_¥]WW\_  
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+HWI-EAS443:3:4:851:884#0/1  
`\_[^X^Z[V¥[U^X]VZ\_]T¥`Q\_\_`W¥0]]\_\_a\_UV  
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+HWI-EAS443:3:4:91:1308#0/1  
^Ybaaa\_ab[aa^b`\_`ba\_\_a`^\_\_`\_a]a^LV[^¥\_`¥  
@HWI-EAS443:3:4:950:403#0/1  
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+HWI-EAS443:3:4:950:403#0/1  
a\_aaaa\_a`a\_\_a^^¥`aL^¥¥¥a[a`aa`\_\_]a\_[]`a\_  
@HWI-EAS443:3:50:1031:873#0/1  
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^`\_ZY\_[a\_W]a[a[^\_]a]a`^`^\_VW]]]NVaaUKW[`  
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+HWI-EAS443:3:51:1762:78#0/1  
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+HWI-EAS443:3:51:179:1033#0/1  
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+HWI-EAS443:3:51:232:1107#0/1  
a`a¥abb`baabaa`baa`\_a^^`\_aa^`a\_^\_\_\_\_\_`]  
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+HWI-EAS443:3:51:378:1425#0/1
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_aaa`^bb_a^ab_a^aaa`a^^RQZ`___`]___]Z^X]^_
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+HWI-EAS443:3:51:548:1659#0/1
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a`aa^aaaa`a`_``]aaY`_`_]_^Z`^`^Z`^`_]^[
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¥^b[^aa`_]`bbbab`^`aabbaaa`_]Y^a¥_Ra`]a]
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¥]_b_X¥b`]ab`Yaabaa]X`Y`aaa``aZab^``]a_a
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+HWI-EAS443:3:52:1234:989#0/1
``aabbabaa_Xb_a_a`_a]``_`^a]aa____``_]X
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_`^)`a^ZZZ[^YUXV[^SW[]]V¥_RXY^SV[VQXURX
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I____aW^_W¥Zb_0__`b^^`_aa`¥SW[a^Z[JY¥`V^
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TATCTTTTGCCTAGGCATGAGCATGAACCAGTCTCGTGAC
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^^ba^bbbb_Z`]_]_0_ab_Q[`a`a_[`a`Sa_a_XUN
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+HWI-EAS443:3:52:155:1101#0/1
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+HWI-EAS443:3:52:1576:1401#0/1
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+HWI-EAS443:3:52:1605:1451#0/1
a_[b__aaaXa`_^a`]^W]]YY__a^a][_]_^`]-
@HWI-EAS443:3:52:1663:815#0/1
ATGAGAATGGGAGACCTTCACTACCTCCAGAGCAGAAATG
+HWI-EAS443:3:52:1663:815#0/1
aab`a_aaaX^]aZ]__a`_[a_ZU^_]W_]¥XZ[[_]_^
@HWI-EAS443:3:52:1680:2027#0/1
ATGAGAATGGGAGACCTTCACTACCTCCAGAGCAGAAATG
+HWI-EAS443:3:52:1680:2027#0/1
a_b`_GZaba__a_¥¥`a__¥__MFXU[Q`¥__Na[PT`^
@HWI-EAS443:3:52:1684:1555#0/1
CACGGTTCGAGTCTCTGAAAATATACAGAGATTTCGCTTGG
+HWI-EAS443:3:52:1684:1555#0/1
ab`^]¥b¥Z]a`a`W`aa¥aaa_Y[N¥a]_¥Y`[`¥`[Y`

@HWI-EAS443:3:52:175:578#0/1
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+HWI-EAS443:3:52:175:578#0/1
a_`a_¥`_]^[a_[]aa`]^]_^R_^_Y_YW^WU¥X¥^
@HWI-EAS443:3:52:1765:934#0/1
GAGAACTGTGATGAGAATGGGAGACCTTCACTACCTCCA
+HWI-EAS443:3:52:1765:934#0/1
]]]aaa]a¥Ya`b]YZ[M^^]][_^^^[\^^Z`_`Y^XXP
@HWI-EAS443:3:52:191:230#0/1
AGAACTGTGATGAGAATGGGAGACCTTCACTACCTCCAG
+HWI-EAS443:3:52:191:230#0/1
ab`aa``]`babbaa¥__aa`Ua`^¥`^^`X__Z^_W[^]
@HWI-EAS443:3:52:193:975#0/1
TGAAAATATACAGAGATTCGCTTGGAGAACTGTGATGAG
+HWI-EAS443:3:52:193:975#0/1
^ZHY[Y¥Za_s_]Y[RYW^_WTV[TN]ZUTR[^¥^KKZ¥N
@HWI-EAS443:3:52:200:534#0/1
GTCGCTTCAATCTGTGCCGATTTCTTCAATTAACCACC
+HWI-EAS443:3:52:200:534#0/1
^S]baJ`]]`a]Yaa^````^]X^^`XQ¥W]]]S_`__VT
@HWI-EAS443:3:52:210:1762#0/1
GAGAATGGGAGACCTTCACTACCTCCAGAGCAGAAATGAA
+HWI-EAS443:3:52:210:1762#0/1
Ya__V^_]TLZ_aa^]`][a_[Pa__U^¥]^_X]¥][X
@HWI-EAS443:3:52:218:1883#0/1
CACGGTTCGAGTCTCTGAAAATATACAGAGATTCGCTTGG
+HWI-EAS443:3:52:218:1883#0/1
aab````aa``_`a`aa`[^```a]aaa`]^`_¥¥Z_WY_^
@HWI-EAS443:3:52:226:26#0/1
GCCGATTTCTTCAATTAACCACCTTATTTCTCAAATTT
+HWI-EAS443:3:52:226:26#0/1
a_`a`_a`a^a`^`_aa¥`_¥_Z]___`_^]a`_^ZP^`^
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AGAACTGTGATGAGAATGGGAGACCTTCACTACCTCCAG
+HWI-EAS443:3:52:245:1275#0/1
__¥`_¥abX`^^^]Y]a^_a^`YXU[]][a^Z_[T]YVV^
@HWI-EAS443:3:52:267:1069#0/1
TGAGAATGGGAGACCTTCACTACCTCCAGAGCAGAAATGA
+HWI-EAS443:3:52:267:1069#0/1
abab]ab^baab`a^aaaa`aa^]`_`_aY_Z_`^__``¥
@HWI-EAS443:3:52:273:616#0/1
GAGAACTGTGATGAGAATGGGAGACCTTCACTACCTCCA
+HWI-EAS443:3:52:273:616#0/1
aaaa_aaab¥a_aa_b^^aa`_[a^^_____a^^_¥Z^¥^¥
@HWI-EAS443:3:52:335:781#0/1
GAGAATGGGAGACCTTCACTACCTCCAGAGCAGAAATGAA
+HWI-EAS443:3:52:335:781#0/1
a`aZX`aaa]_][__`_`_^_]Y¥V]Y^^]`U]Y``¥Y
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+HWI-EAS443:3:52:368:25#0/1
a_b¥`b]a`_a` `X`WXZY_] ^Z^]ZW^ZZZ_Z_XX_ZX
@HWI-EAS443:3:52:368:734#0/1
TGAGAATGGGAGACCTTCACTACCTCCAGAGCAGAAATGA
+HWI-EAS443:3:52:368:734#0/1
ab]a^a^bbaW`aa`a_aa`a]`_]_a^`^_aZ^a]V]aa_
@HWI-EAS443:3:52:419:1080#0/1
AACAAATCGTGAATGGATCTTGAAAGAGGAATCCAGCGA
+HWI-EAS443:3:52:419:1080#0/1
abb]babbb_aaa`aaaa`^aaa`_`a¥`_`^a^S]] [N_ [N_
@HWI-EAS443:3:52:439:1172#0/1
GTGCCGATTTCTTCAATTAACCACCTTATTTCTCAAAT
+HWI-EAS443:3:52:439:1172#0/1
a_aa`baabb_baaaaaa`_a` `aa`aaaa^aaa`_a`
@HWI-EAS443:3:52:475:244#0/1
GTGATGAGAATGGGAGACCTTCACTACCTCCAGAGCAGAA
+HWI-EAS443:3:52:475:244#0/1
a^b`aaX` ``aaa`__Z^U^_`X^_VPWSVW`X_]W_Y]
@HWI-EAS443:3:52:517:506#0/1
CTCTGAAAATATACAGAGATTCGCTTGGAGAACTGTGAT
+HWI-EAS443:3:52:517:506#0/1
aaaa¥WWIWWT]^XZ¥^bS_WP¥XJMX__a_R^V[aUSTX
@HWI-EAS443:3:52:52:62#0/1
TGAGAATGGGAGACCTTCACTACCTCCAGAGCAGAAATGA
+HWI-EAS443:3:52:52:62#0/1
ab`a__aba`_S[Z¥[^_¥__UW¥ZVZ_V`WX_VUVW_V
@HWI-EAS443:3:52:551:1236#0/1
AAAGGAAGAGGCAACACCCTTGGCCTCGATATCGAAACAG
+HWI-EAS443:3:52:551:1236#0/1
_[ON_a^_Q^¥`¥_YZZ`_`a¥[]X¥[Z[`]_]¥ZX`U_U
@HWI-EAS443:3:52:560:1547#0/1
TGCCGCATTTCTTCAATTAACCACCTTATTTCTCAAATT
+HWI-EAS443:3:52:560:1547#0/1
aba]b^`baaa]ab[bb_] ^W]a` `abbaaaabaaa_aa
@HWI-EAS443:3:52:568:1618#0/1
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+HWI-EAS443:3:52:568:1618#0/1
abba][aUaa`ba]^a_aa_b` `a^b)`a_aX`_V[[aTD
@HWI-EAS443:3:52:57:674#0/1
AGAAACTGTGATGAGAATGGGAGACCTTCACTACCTCCAG
+HWI-EAS443:3:52:57:674#0/1
aa_]]_a`]a_ZaUZV]_a¥QR¥^UU_XWZVZ]RMVWUU`
@HWI-EAS443:3:52:612:1412#0/1
CGCTTGGAGAACTGTGATGAGAATGGGAGACCTTCACTA
+HWI-EAS443:3:52:612:1412#0/1
Va`¥_Ya`TYaXZbb`_^aaW¥X¥`aWX^_PT`Yba_PY]
@HWI-EAS443:3:52:732:1266#0/1
TGTCATTCTAAGTGTCTCGCTGGATTCTTCAAGATC
+HWI-EAS443:3:52:732:1266#0/1
]b[aYab_a]X¥_[] [`a¥QXaa¥a`ZY__a` `WTY[¥`_`

@HWI-EAS443:3:52:744:399#0/1
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+HWI-EAS443:3:52:744:399#0/1
[`¥bYb`Z`^bVbb[aaS_IZ^]_ababb`a^aVVaaaYa
@HWI-EAS443:3:52:765:656#0/1
CTCCCATTCTCATCACAGTTTCTCCAAGCGAATCTCTGTA
+HWI-EAS443:3:52:765:656#0/1
ababbbbbbabaabbbbb`ababb`bbbbbaababababab
@HWI-EAS443:3:52:766:744#0/1
GCCGCATTTCTTCAATTAACCACCTTATTTCCCTCAAATTT
+HWI-EAS443:3:52:766:744#0/1
`bbb``bbb]bb`^`abb`a]a^aab`baa`Rbab]`baa
@HWI-EAS443:3:52:76:609#0/1
GGAGAACTGTGATGAGAATGGGAGACCTTCACTACCTCC
+HWI-EAS443:3:52:76:609#0/1
`_[^ZTaaabV`aa`a_Vaaa[¥]_[_`____^^Z^_¥WX
@HWI-EAS443:3:52:780:1563#0/1
GAAACTGTGATGAGAATGGGAGACCTTCACTACCTCCAGA
+HWI-EAS443:3:52:780:1563#0/1
a_aa_aa]_]b[Ya__ba_¥aZRY`__¥¥__Ra`^__¥
@HWI-EAS443:3:52:797:383#0/1
CTGTGATGAGAATGGGAGACCTTCACTACCTCCAGAGCAG
+HWI-EAS443:3:52:797:383#0/1
abb]bbbbba`aabbbb`bababbaaaaba¥aaaab`a_ab
@HWI-EAS443:3:52:79:73#0/1
GAGAACTGTGATGAGAATGGGAGACCTTCACTACCTCCA
+HWI-EAS443:3:52:79:73#0/1
`abYa_Yaa¥a[_b¥`¥^_aaa¥a¥TW_VXZW_W^QWUXU
@HWI-EAS443:3:52:828:855#0/1
TGCCGCATTTCTTCAATTAACCACCTTATTTCCCTCAAATT
+HWI-EAS443:3:52:828:855#0/1
SXZ__U[_OR_`_S_a`^¥ZZF¥W^¥Ta]ZOTZU_¥]a]Y
@HWI-EAS443:3:52:82:1377#0/1
ATGAGAATGGGAGACCTTCACTACCTCCAGAGCAGAAATG
+HWI-EAS443:3:52:82:1377#0/1
aabaaa`aaa`Z^^a`____aY``Z__`¥X_V^`¥_UU_¥_
@HWI-EAS443:3:52:844:1706#0/1
GAGAACTGTGATGAGAATGGGAGACCTTCACTACCTCCA
+HWI-EAS443:3:52:844:1706#0/1
`a_aZ`bbaR¥aa_`]a`_X__a_[¥]````_aaY_____`
@HWI-EAS443:3:52:861:434#0/1
GAAACTGTGATGAGAATGGGAGACCTTCACTACCTCCAGA
+HWI-EAS443:3:52:861:434#0/1
aa`XabXa_aa_a[V]aaaXa_Y]^R]V^__¥_Z]]¥]
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ATGAGAATGGGAGACCTTCACTACCTCCAGAGCAGAAATG
+HWI-EAS443:3:52:86:1032#0/1
abb_a^_abaa^b_^`aa_a__a_]``_YaYa]^a_^U^_
@HWI-EAS443:3:52:878:238#0/1
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+HWI-EAS443:3:52:878:238#0/1
aU]¥¥`baaa`a^N_`_`ba_^a]^a_]Z^aWX]¥]Y`
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TGTCGCTTTCAATCTGTGCCGATTTCTTCAATTAACCAC
+HWI-EAS443:3:52:894:766#0/1
ab`aaa`a`_a`a__^^`¥¥`aa^`a^]_`¥____]]Z
@HWI-EAS443:3:52:93:586#0/1
ATTGTCTGCAAATCGCTTGCGGATATGCCAAAGGAAACAG
+HWI-EAS443:3:52:93:586#0/1
¥`a`Z¥TXN_b`T__`ZV^`_ZTTQIQ¥SMX^^¥OYYOWP
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GTGATGAGAATGGGAGACCTTCACTACCTCCAGAGCAGAA
+HWI-EAS443:3:53:1006:645#0/1
a_a`_a_a____a`Wa]¥VYYY_`^`_]X^¥^V_X`^`_]X
@HWI-EAS443:3:53:1011:1422#0/1
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+HWI-EAS443:3:53:1011:1422#0/1
ab_aaaaa_aaaaaaaaa_aa`a`a_VZa_aa`a_aa`__
@HWI-EAS443:3:53:1027:1043#0/1
GAGAACTGTGATGAGAATGGGAGACCTTCACTACCTCCA
+HWI-EAS443:3:53:1027:1043#0/1
`ba_YX`bb_baaaa]`a]^]¥V`_a^a¥`Naa]^`^_
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TCCCATTTCTCATCACAGTTTCTCCAAGCGAATCTCTGTAT
+HWI-EAS443:3:53:1045:1610#0/1
a_T`bbaabbb`aaYabab`]`_W`baR^aa^0a_b`aa_
@HWI-EAS443:3:53:1053:1477#0/1
ATCCGCAAGCGATTTGCAGACAATGGATTGGGTGATGCCC
+HWI-EAS443:3:53:1053:1477#0/1
ab```S`YYYbba]aaa]b]]```aabZ¥XSSY``¥00TN
@HWI-EAS443:3:53:1058:703#0/1
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+HWI-EAS443:3:53:1058:703#0/1
¥a¥b`bbU[_`bababbabbbbab_b_aaa``bb`aaa`
@HWI-EAS443:3:53:105:1975#0/1
GAAACTGTGATGAGAATGGGAGACCTTCACTACCTCCAGA
+HWI-EAS443:3:53:105:1975#0/1
abbbbaabaabaaaaa`P`aaa`aab```^U^a`a`^
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+HWI-EAS443:3:53:105:554#0/1
abbb^]aaaa]a`_]_a`^aX]]`Zb`aaa]`aa[aa_V_
@HWI-EAS443:3:53:1066:593#0/1
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+HWI-EAS443:3:53:1066:593#0/1
ab]a`aab]_]a`[_`_]_TW`YZ]^_a`aa`a__Ya¥[a_
@HWI-EAS443:3:53:1076:372#0/1
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+HWI-EAS443:3:53:1076:372#0/1
abbabbbbabbbaabab_]_aabababaabaaba____aY

@HWI-EAS443:3:53:1077:598#0/1
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+HWI-EAS443:3:53:1077:598#0/1
`a`W`ZW`_bVV`a_[b`^]`^baaa_aaabbZba^a_b__
@HWI-EAS443:3:53:1085:1758#0/1
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+HWI-EAS443:3:53:1085:1758#0/1
`^a`V`[_aaTQaY`^^aQaaYU_¥`]`YZ`^^]XaVR
@HWI-EAS443:3:53:1107:980#0/1
GTCGCTTTCAATCTGTGCCGATTTCTTCAATTAACCACC
+HWI-EAS443:3:53:1107:980#0/1
a`aaa^a`__`[_`X]¥]UY^aa`a__`]`^`__`¥^_X
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+HWI-EAS443:3:53:1212:1143#0/1
aabaa`bbaa^Sba`aaH`¥`__^aYYaa_a__aW____
@HWI-EAS443:3:53:1216:1949#0/1
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+HWI-EAS443:3:53:1216:1949#0/1
`b`b`ba_b]S`_abaa`a`XDYRY_b^aa_ZS_aaaIR¥
@HWI-EAS443:3:53:1248:396#0/1
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+HWI-EAS443:3:53:1248:396#0/1
¥bYbabbbbaaa`aabb`b^aa_bbaaabaa_a[a`_aa`
@HWI-EAS443:3:53:1297:1312#0/1
GCCGCATTTCTTCAATTAACCACCTTATTTCTCAAATTT
+HWI-EAS443:3:53:1297:1312#0/1
aa[aaaaaaba¥]_baaa^¥^`_aaaaaa¥aa``¥aa_
@HWI-EAS443:3:53:1317:999#0/1
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+HWI-EAS443:3:53:1317:999#0/1
aab_]baabNa`S__bb`_[aaHVa_`^`[bZ¥a[`^`a¥
@HWI-EAS443:3:53:1340:1220#0/1
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+HWI-EAS443:3:53:1340:1220#0/1
ab____abbaba`aab`a`a_aa_aaa`aa`b__b``a`
@HWI-EAS443:3:53:1349:1884#0/1
CTTGCGGATATGCCAAAGGAAACAGTCTACCTGAAAGCTT
+HWI-EAS443:3:53:1349:1884#0/1
aaab`ab`bbab_^aaa]aabb^aa]aa`]`__aaaaZa`
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GAAACTGTGATGAGAATGGGAGACCTTCACTACCTCCAGA
+HWI-EAS443:3:53:1400:1608#0/1
a¥V_X^b`a`]`S`[^aaa¥]^¥V¥_^W_^a]WNMUTXaW
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+HWI-EAS443:3:53:1463:813#0/1
G]ZUZabaa`bZ¥^abXXXXbba`a^b`bbbX_^TJ^aba
@HWI-EAS443:3:53:1475:1976#0/1
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+HWI-EAS443:3:53:1475:1976#0/1
a_aa`aab_aaaU`a`a^__^¥aa`_`_X¥__`^^^W^^Z
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abaab_bbababbba_bbaVbbbbababbbYZ^bab`a^T
@HWI-EAS443:3:53:1563:924#0/1
GAATGGGAGACCTTCACTACCTCCAGAGCAGAAATGAAAA
+HWI-EAS443:3:53:1563:924#0/1
`^aa__S_¥`Y_`aW_¥a`_aaaaa^a_`_`_¥`a[¥^
@HWI-EAS443:3:53:1593:1983#0/1
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+HWI-EAS443:3:53:1593:1983#0/1
aaWabW`bab^`a_`¥`aa___a_Yb`abaa[_b^`__aa
@HWI-EAS443:3:53:1603:1323#0/1
GGAGAACTGTGATGAGAATGGGAGACCTTCACTACCTCC
+HWI-EAS443:3:53:1603:1323#0/1
ab^ba^`abb_babb_b`aabbaabaa[baV^_b__Ua[N
@HWI-EAS443:3:53:1616:1983#0/1
GAAACTGTGATGAGAATGGGAGACCTTCACTACCTCCAGA
+HWI-EAS443:3:53:1616:1983#0/1
^aS__`a]^`ab]ZU`aaaQT``aT`_W```^]Q^`U¥]X
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GGTTAATTGAAGAAATGCGGCACAGATTGAAAGCGACAGA
+HWI-EAS443:3:53:1661:1205#0/1
aa]baabba]]b_a`ba^b^`_`babaaaa^b_aa^`aZ
@HWI-EAS443:3:53:1753:1221#0/1
CTTGGAGAACTGTGATGAGAATGGGAGACCTTCACTACC
+HWI-EAS443:3:53:1753:1221#0/1
V_¥a`baWW`_abaa¥_QZ_`¥``bbaaaa`[aUZbaa_G
@HWI-EAS443:3:53:1771:1244#0/1
GTCGCTTTCAATCTGTGCCGATTTCTTCAATTAACCACC
+HWI-EAS443:3:53:1771:1244#0/1
^SSbZSRy[a^`]YP_NG[RL0aaaT[WOSP^^^UPWFQQ
@HWI-EAS443:3:53:271:685#0/1
CAATTAACCACCTTATTTCTCAAATTTCTGTCCCAATTG
+HWI-EAS443:3:53:271:685#0/1
`aabaabbab`aba`aaaa`a`_S]baa_ba`a`aa`a``
@HWI-EAS443:3:53:273:734#0/1
GAGAAAGCTCTTATCTCTTGTCTACTTCAAGCAGTAGTT
+HWI-EAS443:3:53:273:734#0/1
^`bZQ_bbaba]``aaaYba``¥Z¥a`b`^`_a_[`b_`
@HWI-EAS443:3:53:306:1751#0/1
CTTGAATGGAATGGTAACACGGTTCGAGTCTCTGAAAATA
+HWI-EAS443:3:53:306:1751#0/1
`^b]__`aRI_XX_Y```_]`_ab^aVZZ````¥]`[bab
@HWI-EAS443:3:53:30:1458#0/1
ATTACACTGAAGTTTCGCTTTTCAGTACTATGTTCTTTTCCA
+HWI-EAS443:3:53:30:1458#0/1
ab``aa]]¥¥[]`aaaaaaba]V_aaaa_`^aaa^XZ

@HWI-EAS443:3:53:321:2005#0/1
GCCGCATTTCTTCAATTAACCACCTTATTTCCCTCAAATTT
+HWI-EAS443:3:53:321:2005#0/1
a_¥a]aY_UZa¥X^_`^S^ZXZXT[^]_^MUM^XQT]ZYU
@HWI-EAS443:3:53:324:1048#0/1
GGGAAACAAATCGTGAATGGATCTTAAAAGAGGAATCCA
+HWI-EAS443:3:53:324:1048#0/1
¥bZH¥bbbaabbb_baaaab]]^Yb`baaaaaa[`]a[Za
@HWI-EAS443:3:53:354:515#0/1
GCGCGAAGTAGGTACAGATGCAATTGTCATTCTAAGTGTC
+HWI-EAS443:3:53:354:515#0/1
aa]a`P`a__`_Va`^`[]Q]^__`¥WY^`[¥`¥Y]]^^V
@HWI-EAS443:3:53:359:305#0/1
GCCGCATTTCTTCAATTAACCACCTTATTTCCCTCAAATTT
+HWI-EAS443:3:53:359:305#0/1
L_Z_a[ba_X]]TYW¥_UUSZWQOYabbaaW]aX_W```]
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+HWI-EAS443:3:53:367:1067#0/1
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@HWI-EAS443:3:53:367:1328#0/1
GCCGCATTTCTTCAATTAACCACCTTATTTCCCTCAAATTT
+HWI-EAS443:3:53:367:1328#0/1
a]V_a]_W^P^Y[_a^Va`_`Y^WX]]K[^UR]X¥Z¥YQU
@HWI-EAS443:3:53:412:1369#0/1
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+HWI-EAS443:3:53:412:1369#0/1
^X¥Z`¥YRXaa_RT^a¥X[RTUV[Z¥_TRY[YOUZYOWZ
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`_a_H_ba^V[abaY`aaba`_ba_``a_b`_a__a[a`_
@HWI-EAS443:3:53:453:1759#0/1
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+HWI-EAS443:3:53:453:1759#0/1
Q_a_b[Y¥ba[Z`a`R_[aaWX_XZ_``_`baZ]PU````bb
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+HWI-EAS443:3:53:453:765#0/1
S_aWQIVa`aWa`_]Z___TaZ_¥`_OZ^a[`[^PH[bbX
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+HWI-EAS443:3:53:457:77#0/1
a`b`aab_a]ababbaabba_aaQSa`_]Y[_][[ZZYa`
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+HWI-EAS443:3:53:472:834#0/1
`_¥_XS]`_]X[Wa¥`_`ZY_Y]``]^¥_¥YU¥V¥VM^`¥
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a_U^_Z_aaa_TI^`M[LX` `_aa¥` `_aabaa_Sa`a0T
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+HWI-EAS443:3:53:541:804#0/1
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¥[aa¥_WR^]0]^baaab`a` `a`_aa_`]]`a`]^
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Y_a`^a¥_X_[a`S_¥_a¥aS_ZY`a`TO_TZQSS¥YUFP

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aZ¥a` `` ` _Z` `a^Za__`V_aa] `^]a__a^`¥¥a¥` ^X
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¥Z¥]abb`_U_bab¥a]bb[V_^]_[]_a__ZO¥UWUa^
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Q_a¥a_aabbb`__aa` ` _X__`aa` ` `b`aa`_[^_W]
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G]_^a__aaW_a^`^`a`_Q]_ [¥^[[__`WXY__X_a`¥
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U` []^_baba]a¥Xa`bb__a^_^ZS__a` `]^W_Y[[Za
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a][[^a_abaa^¥_Z_aaaSY` [` `babab_[aaaa^aa_
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a`_a_T^abbabb_a`aabab]baaab`bbb_a[W^a_¥_
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aaaaaaR)`^_a_[aPZab_a¥_¥_`^____a¥aW^a¥^_`
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¥W_Y_¥`b`aab`a_V]__b`^]_X^b`¥]ZKa[Z]^`^
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+HWI-EAS443:3:54:113:1512#0/1
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¥XR[a`]OT[[^_aa`^`_V`^^Y_[Pa`^ZZZYaXV[W
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+HWI-EAS443:3:54:133:1834#0/1
^^^bbb^_a`¥`a`_]a^aa`a¥`]a_a¥`^`_aa_^^aa^
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``aaaa^^`aa]_¥_```_^_]Z^W_Y]YY_¥¥]¥XX[^X
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+HWI-EAS443:3:54:1421:966#0/1
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a`````]`_a`aZ^[^[_^Z[¥¥^T___U[WW^W[W[RT
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^H_[a¥ZZ_W_W^^^a]UJZ_^] `^]a_`aa_a¥^`¥XY_
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a` `Vaa_aaUa` __SWTa_QZ` ^` `V` `Y^[] ^X[¥^^XX
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aa¥_]¥b¥ba]bbbaa_]a_aTH^[_W`UZZa` `` `RX^
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¥aXW¥_` `¥_I^ZZaa_Z^a^^`S]PR` `` ^a]V][[ZX¥
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aaaa¥_^]_W_` _[[a`]X¥L[^X_YW^_]_] [UZZZ^^X
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ZX]N__^¥H` ^baXT_]aaP¥WZ_ZS_` ^`a]] `a_XX_U
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+HWI-EAS443:3:54:221:112#0/1
`a_^b^Iabbaa_b¥¥VW[Ya_SSR_¥[] __a` ^NWW^^Y
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+HWI-EAS443:3:54:237:142#0/1
_a__bba^bbbbbabb`bb^]a[b_aabba` `` `` [¥a[a]a
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aa_a_`^_a`^a_`a^`]__`a_]`^X]^¥^_X^_XY]YX
@HWI-EAS443:3:54:433:820#0/1
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+HWI-EAS443:3:54:433:820#0/1
[_¥_a¥¥`_bbaQ¥b`bb`]aa`aaV¥`aaaba`a¥^`aa
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+HWI-EAS443:3:54:474:1542#0/1
abb```aab`¥W_`a_`aa`aaa^`^[¥[]`a^__^)`a
@HWI-EAS443:3:54:490:1250#0/1
ATTATCTTTTGCCTAGGCATGAGCATGAACCAGTCTCGTG
+HWI-EAS443:3:54:490:1250#0/1
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GTCGCTTTCAATCTGTGCCGATTTCTTCAATTAACCACC
+HWI-EAS443:3:54:491:790#0/1
`_T`aabababa`aa^`aaa`_baa[aaa`¥aa_a`^`a_
@HWI-EAS443:3:54:492:1443#0/1
GAAAGCTCTTATCTCTTGTCTACTTCAAGCAGTAGTTGT
+HWI-EAS443:3:54:492:1443#0/1
`^[a`b__`]^`^a`^]aaa]aa`_]_`^`Y¥a[_`[
@HWI-EAS443:3:54:504:541#0/1
GAGAATGGGAGACCTTCACTACCTCCAGAGCAGAAATGAA
+HWI-EAS443:3:54:504:541#0/1
a[^]`aa`^^a[_^a`¥`_aa^[^^_a¥aZZa¥]_`^`^`
@HWI-EAS443:3:54:513:171#0/1
GAAACTGTGATGAGAATGGGAGACCTTCACTACCTCCAGA
+HWI-EAS443:3:54:513:171#0/1
aXPV_aaP]U_XTaSY[]`YSZVUWURV^X^TWUXRN¥X
@HWI-EAS443:3:54:532:1333#0/1
GGCTGTTTCGATATCGAGGCCAAGGGTGTTCCTCTTCCT
+HWI-EAS443:3:54:532:1333#0/1
a]aab¥`^QSY[] [WUQUWEUU]SX]G[QYUQY¥ZZ^SZZ

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+HWI-EAS443:3:54:533:730#0/1
PN]^[^]S[_[`__`_aYZ[^¥`_]`¥__`_¥WU]^[^]
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+HWI-EAS443:3:54:54:1303#0/1
aaUaaa`ab`[a_a`aaa``_aaaaaaaa`_`_`a`Z[^`^`
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+HWI-EAS443:3:54:620:1548#0/1
aa^]_[SabSa`a__X`aa_`^`a0_¥]T0^YX__Y]`V^^
@HWI-EAS443:3:54:63:1020#0/1
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+HWI-EAS443:3:54:63:1020#0/1
aaaaaaaa__¥_¥_]_[¥_¥^^`^[^[¥^¥]_TYYYYWW
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+HWI-EAS443:3:54:644:1255#0/1
aaaaba`aabaa`aaaa]`a`aab`a`^`^`a`_`_`^`_`
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+HWI-EAS443:3:54:669:532#0/1
abbaba_ab]aba`aabaaaaaaaaaaaa`aa_a`aa_a`_`
@HWI-EAS443:3:54:747:705#0/1
GAGAATGGGAGACCTTCACTACCTCCAGAGCAGAAATGAA
+HWI-EAS443:3:54:747:705#0/1
__a`__[^^^a]X`_Z_a^^a^`a__a^aaa^¥`aa`Y`
@HWI-EAS443:3:54:758:1725#0/1
ACTGTGATGAGAATGGGAGACCTTCACTACCTCCAGAGCA
+HWI-EAS443:3:54:758:1725#0/1
a^``[aaaa`a`aaaa``ZYX`a`a^aa_`_`^`T_Y_`
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+HWI-EAS443:3:54:759:590#0/1
aa_b_abb_b_b^V`^abbab`aZaaaa_a_a`0`aX^a`
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+HWI-EAS443:3:54:790:1889#0/1
aT¥Q^`_[¥PZ`_``a^[_UZZV[XQU]^¥RW¥]Y]UUR
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aa]aabVP¥`_¥a_UZaaa¥`b¥¥ZT_ZRTQ[UaY`G_`^`
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+HWI-EAS443:3:54:81:1212#0/1
a]aa¥b_ZZX_aa`ba_`^`[_a¥Y`X¥¥]¥X[`]R]Y[
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+HWI-EAS443:3:54:857:95#0/1
aa_b_aaa^a` `]aa^`_^aY` `aa]aa]]]aa_^ [UZZZ
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+HWI-EAS443:3:54:874:732#0/1
a_U_bbaa`_baaba_a]b]abaa_[aaaa`aaaba_`a
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+HWI-EAS443:3:54:880:1370#0/1
aV]_^_aaS_R^TOGM]ZJZH_NQHZLaR_YNFG_`O_FF
@HWI-EAS443:3:54:896:461#0/1
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+HWI-EAS443:3:54:896:461#0/1
^Z]^bb` `Za_baabbbGSa`bb_bb`aaaaYbaab_`a
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+HWI-EAS443:3:54:931:1629#0/1
abb`b_abba^a`abbbbbaaaaa[aaabbaabaa`aaa
@HWI-EAS443:3:54:968:404#0/1
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+HWI-EAS443:3:54:968:404#0/1
aaba]a` `aYb_a_____a`Z^YaX` `]W¥^^P_` ` [¥[^¥_
@HWI-EAS443:3:54:993:1079#0/1
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+HWI-EAS443:3:54:993:1079#0/1
aa[`aaa^`^b`aa^a_aa_` `]X_` `N]aa`YZ_^_]aX
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+HWI-EAS443:3:55:1031:1888#0/1
aa]aaa^]` `]a_`^¥a¥W0[[Y¥a`aWT_U`X_a` `][
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+HWI-EAS443:3:55:1082:1189#0/1
aaSa` [V`XZTX]_¥`RX]R`WP]ZYWQ_]X]¥YZ_¥VZ]
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+HWI-EAS443:3:55:1093:282#0/1
ab]bX_Wabbb[^aZ_^Uaa¥`a]]aW]] [`aaZ¥a_aY[
@HWI-EAS443:3:55:1119:374#0/1
GTCGCTTTCAATCTGTGCCGATTTCTTCAATTAACCACC
+HWI-EAS443:3:55:1119:374#0/1
`bababbb_aaba__` [a`baabba^baa`_bb`a_]a_¥
@HWI-EAS443:3:55:1152:1336#0/1
CGCTTGGAGAAACTGTGATGAGAATGGGAGACCTTCACTA
+HWI-EAS443:3:55:1152:1336#0/1
ababbb`baaababba`aba_aaaaba` `]`_a_aa_a¥_a
@HWI-EAS443:3:55:1180:1024#0/1
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+HWI-EAS443:3:55:1180:1024#0/1
aZOU`Z` ¥V¥[[V[V_]` `]YUXV¥Ua¥]¥[_Z^P`UUVZ

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abYaaaaa^aa`a¥`a`baa_^`_]Yaa`a__`VR_¥0__
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+HWI-EAS443:3:55:1195:162#0/1
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+HWI-EAS443:3:55:1249:504#0/1
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@HWI-EAS443:3:55:125:459#0/1
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+HWI-EAS443:3:55:125:459#0/1
^a^`[_]_^`^[_]`¥Z^a`a`Qa]a`^`¥¥_a^_¥_
@HWI-EAS443:3:55:1267:1340#0/1
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+HWI-EAS443:3:55:1267:1340#0/1
aa`_aaa`abba`a¥bbbbbaa]bbbbbb^babaaaaaba
@HWI-EAS443:3:55:1304:1459#0/1
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+HWI-EAS443:3:55:1304:1459#0/1
aaa_Y_]V`]a]Z`__`_]`^a_[_`_V[___]QT[R¥]¥]
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+HWI-EAS443:3:55:1352:497#0/1
Zaababb_babba_aaabba`baa`a`]a_aa`]a`_aa
@HWI-EAS443:3:55:1383:350#0/1
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+HWI-EAS443:3:55:1383:350#0/1
abaabbbbabbbaaaaababb[`aaaab`b_aaa_aaa`a
@HWI-EAS443:3:55:1404:1394#0/1
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+HWI-EAS443:3:55:1404:1394#0/1
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+HWI-EAS443:3:55:1414:1479#0/1
aa¥a^`_b`b_aaWQ¥ORaa_aa`a]Y_[[_]a_V]aaU^]
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+HWI-EAS443:3:55:1499:60#0/1
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@HWI-EAS443:3:55:1550:1157#0/1
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+HWI-EAS443:3:55:1550:1157#0/1
abaaa_bb^baa^`a`abbaa_a[_]a`aa`aa¥X`_^¥a
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+HWI-EAS443:3:55:1585:160#0/1
ab`a_aa_ab^a_a`_`__`aaZ^_¥W¥^]U^Y¥WUUWWW
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+HWI-EAS443:3:55:1612:1973#0/1
^aabaabaababb__`J_bab_bb_a`][_aZUX_Iba
@HWI-EAS443:3:55:179:1692#0/1
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+HWI-EAS443:3:55:179:1692#0/1
`^Wa_]_¥]_a__X¥[[`_`_`_][U^¥Za_`_`_VV^¥P^
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+HWI-EAS443:3:55:209:1460#0/1
_a_W¥b_X[]WZZ]__`]_baa^^a`^Z[]UX_X_Z__W
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+HWI-EAS443:3:55:212:1703#0/1
`bbb_bb¥bbbbabb]^b_[]aaaab^abaaba¥aa^_Y`
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+HWI-EAS443:3:55:213:56#0/1
a_N`]a^¥^^¥`YW_YL[X_Z]ZX^U[PQMS]MFRVRVXS
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+HWI-EAS443:3:55:241:744#0/1
PW[]__`bb^`aa^W_Z^^a_HZW¥WUZ`a`]aa_aS^_Z
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+HWI-EAS443:3:55:292:1424#0/1
_aZ¥¥]a`[¥a_U_[a`^aa^]]aa^¥`R`W¥^^[`a
@HWI-EAS443:3:55:302:461#0/1
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+HWI-EAS443:3:55:302:461#0/1
Sa[^b_^_bbbabbaba[La¥bbaaba`bbbaVbaabb
@HWI-EAS443:3:55:392:746#0/1
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+HWI-EAS443:3:55:392:746#0/1
aaaaaa`aaaaa`a___a`a_`_]`____`^a]_]`^`_`
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GCCGATTTCTTCAATTAACCACCTTATTTCTCAAATTT
+HWI-EAS443:3:55:399:1209#0/1
a_`^^U_`__`^LWWZ`Y]W[`]^_^_]`^`U__^YTZZ]_
@HWI-EAS443:3:55:414:1614#0/1
AGAACTGTGATGAGAATGGGAGACCTTCACTACCTCCAG
+HWI-EAS443:3:55:414:1614#0/1
``aa`baa__aaa`a```a¥`Y`a__````^__^Y_^Z[`

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+HWI-EAS443:3:55:427:417#0/1
ab`_aaa`a`[abaa_aa`^`_`]a`^_aa_``[a]`^_
@HWI-EAS443:3:55:452:943#0/1
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+HWI-EAS443:3:55:452:943#0/1
aaa`^a`a`a^^^a^`_a^¥^X`^a^`a^`^`_][VU]
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+HWI-EAS443:3:55:453:1150#0/1
a_0_WZU`a]X_]aaXZZ_[aW__¥NS[`]Q`YOP[V]Z
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+HWI-EAS443:3:55:489:1464#0/1
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V][aaUZbba^_Ta]]HXUJU]NM[_HXZ¥MNTLMJ_B
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+HWI-EAS443:3:55:598:614#0/1
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+HWI-EAS443:3:55:637:840#0/1
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+HWI-EAS443:3:55:641:868#0/1
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@HWI-EAS443:3:55:659:591#0/1
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+HWI-EAS443:3:55:659:591#0/1
`_aa^`aZNa`__Z__`a^`a_]`]]][^]_^_]W
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+HWI-EAS443:3:55:682:1614#0/1
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+HWI-EAS443:3:55:687:1446#0/1
[_a¥aaaba`ZZSUUV_T]b_`aa]ZV]_`[]a^`_^] ^
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+HWI-EAS443:3:55:743:1683#0/1
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@HWI-EAS443:3:55:797:1141#0/1
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+HWI-EAS443:3:55:797:1141#0/1
__¥^a¥_abR_`¥_RXV_VabY]¥]TJ¥`H_^`aIVaTSW
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+HWI-EAS443:3:55:842:997#0/1
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@HWI-EAS443:3:55:859:1697#0/1
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+HWI-EAS443:3:55:859:1697#0/1
a`aaaaaa_aaa`a_`___Z^`^Y^a`^`^aaV^`_Y``
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+HWI-EAS443:3:55:860:420#0/1
a_aa^TUL[Y_UTTZR_[¥QPX^_aWRY]VT^YZ[XT¥[W
@HWI-EAS443:3:55:903:307#0/1
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+HWI-EAS443:3:55:903:307#0/1
a`_aab`_a]^U`_]aU`_U[_^ZZaY`]¥a]]V`_ZU¥]
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+HWI-EAS443:3:55:905:1258#0/1
aaaaabaa__a_aaXa]aa^___`a_]a_^_^]W_]^^]
@HWI-EAS443:3:55:908:1092#0/1
GGAGAAACTGTGATGAGAATGGGAGACCTTCACTACCTCC
+HWI-EAS443:3:55:908:1092#0/1
aa]``aa_a`[aY_`[^[_`_Z^] ^UV[[V_¥^^TTZXW
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+HWI-EAS443:3:55:952:952#0/1
aabaaaaab`a`aa_b_aaaa^`a`^Yaa``_a_[^`^]_`
@HWI-EAS443:3:55:977:1988#0/1
TGAGAATGGGAGACCTTCACTACCTCCAGAGCAGAAATGA
+HWI-EAS443:3:55:977:1988#0/1
aa`bYaaaaa]¥_a`_]_]`aWXa_T_^_Z`_ZU^^[W
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+HWI-EAS443:3:55:983:323#0/1
aba_^`bbbbbaa_abbaabb^``aaaa_Y]`b^[a`aY]

@HWI-EAS443:3:56:100:821#0/1
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+HWI-EAS443:3:56:100:821#0/1
a_Z¥^^_____]¥U`aa_]¥Y[]`¥T^__Z]]_T¥[Z[_^
@HWI-EAS443:3:56:1016:1269#0/1
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+HWI-EAS443:3:56:1016:1269#0/1
aaaa`bbabaabaa`aaaa`a^_a`_a_a`^^`¥__`_
@HWI-EAS443:3:56:101:1716#0/1
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+HWI-EAS443:3:56:101:1716#0/1
a`_Y`a`aaaa`aa[^_a`a`]]_`a``a``a]¥_]`
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GCTTGC GGATATGCCAAAGGAAACAGTCTACCTGAAAGCT
+HWI-EAS443:3:56:1035:884#0/1
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+HWI-EAS443:3:56:1057:1728#0/1
abaU_baa`_aaU_a`^^`a__G_]YYa`_`_S]V` [
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+HWI-EAS443:3:56:1082:750#0/1
a_¥Q[]SYVXU^`_`T_^ZT__[_TNR]RRRPVNUaNR
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+HWI-EAS443:3:56:1102:103#0/1
ab_Y`babbbab`bbbbaaa_Wababba_ab_ab_aab`a
@HWI-EAS443:3:56:1122:114#0/1
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+HWI-EAS443:3:56:1122:114#0/1
a_a_aa_b_^`aa`Z_Y¥¥_^W^¥_^YY^¥¥Y_W_WW_YY
@HWI-EAS443:3:56:1125:1384#0/1
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+HWI-EAS443:3:56:1125:1384#0/1
V_Z_ab_b¥baaaba___a_aa]^Yba`Yb`_baZaa`_a
@HWI-EAS443:3:56:1158:605#0/1
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+HWI-EAS443:3:56:1158:605#0/1
aTZZ`UXabb_XVZ^]UMWaG^_aQGW^¥RH__aaWZ_H
@HWI-EAS443:3:56:1168:1238#0/1
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+HWI-EAS443:3:56:1168:1238#0/1
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@HWI-EAS443:3:56:1192:82#0/1
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+HWI-EAS443:3:56:1192:82#0/1
a_Z]_U^a`a^]]^`^^_[[YX0^^Z[U¥SU]¥]URX[Y
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+HWI-EAS443:3:56:120:1190#0/1
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@HWI-EAS443:3:56:1216:1436#0/1
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+HWI-EAS443:3:56:1216:1436#0/1
a[^`U)`Z`_L]T)`VVU_V`WT¥[QWW^]W¥UZ¥TKLKY
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+HWI-EAS443:3:56:1224:811#0/1
aaaa]aaaaaaaa_a`^a`_¥a^aaaa_a__a`_`_`a`
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+HWI-EAS443:3:56:1236:920#0/1
aaa`^`ba`bab]`_`]a_aaaaYa^aaa^a^b_^ab____
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+HWI-EAS443:3:56:1260:179#0/1
aaba_a`b^a^`_`_`_[aaa_`_^W^Y¥¥_ZY[W_V_^¥Z
@HWI-EAS443:3:56:1288:178#0/1
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+HWI-EAS443:3:56:1288:178#0/1
a_aa_^aaa¥a]^^_a`_`a¥]^ZT`__`__^]_¥^^]_Y^
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+HWI-EAS443:3:56:1311:258#0/1
abb^Y`a`ZYPPO_XVXUba`aTaaSNV]QY¥NZ]R^[NV
@HWI-EAS443:3:56:1379:1900#0/1
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+HWI-EAS443:3:56:1379:1900#0/1
a]_bYaR`b¥[b[a_U)`aY`_]`_]_b`Ra_^VWJ]__]
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+HWI-EAS443:3:56:137:147#0/1
`aaa^a¥N`Ya]S_]^[^]`_`^`Xa^`Y_aQ__a__ZYa_S
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+HWI-EAS443:3:56:137:489#0/1
aaaabaaabY`_`a]^_aY_^_a__a¥a__a_¥`_`a¥^¥^
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+HWI-EAS443:3:56:144:873#0/1
YZ¥_]_UJ]^a`¥`ZXP_Q^`_¥Va_Y_R_Y¥`X__R[R]
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+HWI-EAS443:3:56:1454:1365#0/1
aa_a¥^^b¥`b]bbb_]b`aabba`]b[b`N^b[SVb`b[

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+HWI-EAS443:3:56:1468:1237#0/1
a_aZ__`ba_bab]b_SaV_`aa^`a`b]S_a¥Y¥baa[
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+HWI-EAS443:3:56:1474:1539#0/1
ab``^ab`a`aabaa_aaba]bbaaab_`b_[b_aa^`_a
@HWI-EAS443:3:56:1573:984#0/1
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+HWI-EAS443:3:56:1573:984#0/1
a^J_`Yb`b`bb_aaba¥b_P[^`aa`baa]_aa_`aaa`
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+HWI-EAS443:3:56:1625:201#0/1
aba```abbaa^aaQT]]ba¥a_V^NWYaZ_]a_XVaYY¥¥
@HWI-EAS443:3:56:1643:221#0/1
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+HWI-EAS443:3:56:1643:221#0/1
_Xa¥__ba`_]`]TZZYb`a^T`TZZ`a_`^`aYa_[-]W
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+HWI-EAS443:3:56:1647:1093#0/1
abaaaa`b^a[WYaaa__H_^TWR[a`VS^aaUVYT^]]
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+HWI-EAS443:3:56:1729:855#0/1
aa_¥¥aabba_a__U__[a¥a¥N¥]¥¥_a¥aW_a[T_]`¥
@HWI-EAS443:3:56:1767:665#0/1
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+HWI-EAS443:3:56:1767:665#0/1
a`[^`abb_`a^babaa_]b_a`a_a`aa]a_aaaa_PZa¥
@HWI-EAS443:3:56:176:730#0/1
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+HWI-EAS443:3:56:176:730#0/1
a`^ZH¥`^aVa```¥¥^[__^¥U¥¥¥¥^[[_^_^^URX^Z]
@HWI-EAS443:3:56:1783:1443#0/1
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+HWI-EAS443:3:56:1783:1443#0/1
a``]¥Xa^a¥NZaQ¥YOX[Q[]Y^`W`]OUYY_¥TOUXVS
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+HWI-EAS443:3:56:216:796#0/1
a^_]TXZ`_aYXY[^`X[X^_a[UX[YZ^]Y]VZWYYVZP^
@HWI-EAS443:3:56:21:1515#0/1
ATTTGTTCGAACTATTCTCTGTCTGCTTTCAATCTGTGCC
+HWI-EAS443:3:56:21:1515#0/1
aaa`^X_a^]V`^`^`[^`[]^¥`]X]W__[XNXYOSWW
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+HWI-EAS443:3:56:23:362#0/1
``ba_aa`baaa`aa]V^Yaa`a^]_Z_Z_¥¥`_]__`
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+HWI-EAS443:3:56:256:1262#0/1
aaaaaaaaaaa^aaaa¥_aaa_aa_aaa__a`__aa_
@HWI-EAS443:3:56:258:952#0/1
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+HWI-EAS443:3:56:258:952#0/1
aaaaaZ`a`V]^a`a_a^`¥]``aZZ^¥_[^_^¥¥^Z_¥
@HWI-EAS443:3:56:264:656#0/1
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+HWI-EAS443:3:56:264:656#0/1
`ba`baa`aa¥`a`_HT^YZ^]_[_Z_U`ZZ^R_[[aZWU
@HWI-EAS443:3:56:27:493#0/1
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+HWI-EAS443:3:56:27:493#0/1
a`aba`aa]X]aaa`^aaaa¥`a__a^_¥U^__^^`[[
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+HWI-EAS443:3:56:302:990#0/1
a^^^]^ab¥R```aaa_a__XY___¥^a_a_[`QN]`a¥
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+HWI-EAS443:3:56:356:384#0/1
a`_bbaa`aaaaaaaa`b]WYaaa`a`b_a_aaa]]]aa`
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+HWI-EAS443:3:56:361:2041#0/1
a^RUB]^LDZ]_UaNN¥WZWW¥¥W]N[RWZX¥VRQRTL
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+HWI-EAS443:3:56:381:1556#0/1
a`bbbaaaaaa`baa`_```a]__a`a`_`^`__`[`
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+HWI-EAS443:3:56:387:1346#0/1
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@HWI-EAS443:3:56:42:1797#0/1
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+HWI-EAS443:3:56:42:1797#0/1
aaab^_a^a`Y^a_T__a`_a____]UY]UVURRWW`X^^
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GCCGCATTTCTTCAATTAACCACCTTATTTCTCAAATTT
+HWI-EAS443:3:56:456:196#0/1
a`aa`aaaa_aa`_`aaa^_^^^___`_`^_a^_^^__^
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ATAAGCTGAAACGAGAAAGCTTTATCTCTTGTCTACTT
+HWI-EAS443:3:56:459:841#0/1
aa_aaaaa]`a`baa^¥`a`_aaaRa`_`a`^¥`]`a^a_

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+HWI-EAS443:3:56:484:1305#0/1
ab`aabaahbaaaUaaa_aaa`a]_^aU__a_]_____^]
@HWI-EAS443:3:56:494:514#0/1
TGAGAATGGGAGACCTTCACTACCTCCAGAGCAGAAATGA
+HWI-EAS443:3:56:494:514#0/1
ab^a^aabaanaa`^^`_`a[_a_`^`__a_a¥^a¥^^_a`
@HWI-EAS443:3:56:517:339#0/1
AGAAACTGTGATGAGAATGGGAGACCTTCACTACCTCCAG
+HWI-EAS443:3:56:517:339#0/1
abaaaaab_baa`R`a^aaaa_a`_`a`_`_`a_[_____`
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+HWI-EAS443:3:56:51:177#0/1
aa_aaY`aa___`[^Z¥YYYYVYW_a_W____¥Y]]YVP]___
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+HWI-EAS443:3:56:535:899#0/1
aa¥aaa^I[W¥a_a¥YM^a[R][[^_X[[[^[[Z[V[URR
@HWI-EAS443:3:56:562:1087#0/1
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+HWI-EAS443:3:56:562:1087#0/1
a`aaa`aaaa`a`_]a_aa^a`_]`^^]`]^`a``¥¥_`^
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+HWI-EAS443:3:56:597:892#0/1
^`aabaanaSZ`_Y^`^`_YYV_[^`_`baa_a^a__`b`^Z
@HWI-EAS443:3:56:609:1194#0/1
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+HWI-EAS443:3:56:609:1194#0/1
aa]]Y_aa`^`Z^__^a_I__Ya``_RaW^S¥`_]_WZP¥S
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+HWI-EAS443:3:56:664:514#0/1
a_baa___aa`abbb¥ab]bb`a^a`_`Zabba_aaaa_a
@HWI-EAS443:3:56:678:79#0/1
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+HWI-EAS443:3:56:678:79#0/1
abaa``ab_b_aa^a^`aaaa]a^]¥_^[_]^_`Z^^[_]
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+HWI-EAS443:3:56:693:1117#0/1
abab_^bbb`bbaaabaanaaaaaabaaaaaa`b_aa_baa
@HWI-EAS443:3:56:724:1225#0/1
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+HWI-EAS443:3:56:724:1225#0/1
abbabbbbbbbbabbaa`aaa`baabbb_abababbabaa
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+HWI-EAS443:3:56:741:759#0/1
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+HWI-EAS443:3:56:745:1725#0/1
``aaababaaa`aa`a]ab`Y```a_`aa]__aa`a`a]
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+HWI-EAS443:3:56:78:177#0/1
ababababba_b`]Y_```_^Y¥____a`ZP^VZVZ_^
@HWI-EAS443:3:56:796:442#0/1
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+HWI-EAS443:3:56:796:442#0/1
abb`aaa¥aaa`a_a`a`aa_a`_`b^`aaa]`aaa¥_aa
@HWI-EAS443:3:56:808:1559#0/1
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abb`abb¥ZYaaaXU[`abXU]aa_aa]^`aaa__a`^`¥
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+HWI-EAS443:3:56:820:579#0/1
a```_aaba`aa_a`a`a`][^`_`a__a`a]^`_``_`_a
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+HWI-EAS443:3:56:829:971#0/1
a`_`Z`Saa__aa`^PZ_a]__`N`Y¥^^`¥HU¥_¥_¥T
@HWI-EAS443:3:56:840:1333#0/1
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Ya[bY¥bbbabZ^`_babaa`aaa__Ya`aaaabaI`^Va
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+HWI-EAS443:3:56:866:58#0/1
a[_`aba_aa`Za¥aa]Ya_a_aW_`a`^^`_b¥``_a__
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+HWI-EAS443:3:56:908:1294#0/1
a¥]^`^^`a`_aZ[a¥RU^]QRZ[^`_`a^[P[]SaW`UPT
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+HWI-EAS443:3:56:914:867#0/1
_`a`_aaa`bbbaaaaa_a_aa``aaabaaa`baa^Y`a`

@HWI-EAS443:3:56:933:980#0/1
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+HWI-EAS443:3:56:933:980#0/1
a]^_[aaGa_^^U_UYaa`[P[]_Y¥]VY^]]VVV[YV]
@HWI-EAS443:3:56:945:492#0/1
GAGCAATTGGGACAGAAATTTGAGGAAATAAGGTGGTTAA
+HWI-EAS443:3:56:945:492#0/1
aTaa_`^_b`a__aaa_`a`aaXa`^^]``^aSa^S_]]
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+HWI-EAS443:3:56:962:1507#0/1
ZZ]Za`a^P_ab__a_a¥H¥X[¥a`L[TYb`P]a[L`_`]
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+HWI-EAS443:3:57:1012:789#0/1
aaa)`a`ab_a)`a_a[a_aaaL`^^]^____^`^R^XZ
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+HWI-EAS443:3:57:1020:251#0/1
a_abaaab_`_a_]a`_a`_`aa]____`a`_`WZ^]^
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+HWI-EAS443:3:57:1060:591#0/1
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+HWI-EAS443:3:57:1075:1294#0/1
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+HWI-EAS443:3:57:1079:74#0/1
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@HWI-EAS443:3:57:1083:1114#0/1
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+HWI-EAS443:3:57:1083:1114#0/1
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+HWI-EAS443:3:57:1089:875#0/1
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@HWI-EAS443:3:57:109:1148#0/1
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+HWI-EAS443:3:57:109:1148#0/1
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+HWI-EAS443:3:57:1139:1541#0/1
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@HWI-EAS443:3:57:1171:571#0/1
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+HWI-EAS443:3:57:1171:571#0/1
V¥J^b`a`a`baUababb[PS[aaabbba[^`a_^`abb
@HWI-EAS443:3:57:1182:543#0/1
TCTCGCTGGATTCTCTTTCAAGATCCATTCCACGATTTG
+HWI-EAS443:3:57:1182:543#0/1
a`aa]abba_aaa`aaaaa````_aaa^_ZU_`a`
@HWI-EAS443:3:57:1188:1858#0/1
GAATGGGGCATCACCCAATCCATTGTCTGCAAATCGCTTG
+HWI-EAS443:3:57:1188:1858#0/1
]__X_XSZZa¥a]¥¥`a]XRU[^XaXQ]a]aa]VVVLJ^B
@HWI-EAS443:3:57:1218:1423#0/1
AGAAACTGTGATGAGAATGGGAGACCTTCACTACCTCCAG
+HWI-EAS443:3:57:1218:1423#0/1
a`aZa``]b]aa_]Y``aa`bVXR`__aZ[]]_`Z__`
@HWI-EAS443:3:57:1228:726#0/1
GAAACTGTGATGAGAATGGGAGACCTTCACTACCTCCAGA
+HWI-EAS443:3:57:1228:726#0/1
]]aa^ba]baaa[a`bbaaa_a`^_b^Za^aa^GbUY]aa
@HWI-EAS443:3:57:1261:323#0/1
GAGAATGGGAGACCTTCACTACCTCCAGAGCAGAAATGAA
+HWI-EAS443:3:57:1261:323#0/1
P`[a`^^a¥___`_a^__¥V^ZS[_U^ZV^WQS__¥V
@HWI-EAS443:3:57:1263:1093#0/1
TGCCGCATTTCTTCAATTAACCACCTTATTTCTCAAATT
+HWI-EAS443:3:57:1263:1093#0/1
aa`a_aabababb`a`baaa__a`aa`bab]Y__^X^aa
@HWI-EAS443:3:57:1277:1166#0/1
GAGAAACTGTGATGAGAATGGGAGACCTTCACTACCTCCA
+HWI-EAS443:3:57:1277:1166#0/1
]]babbZbb_____b^`aaaaa`^^`_a`bbaa_[[``_a
@HWI-EAS443:3:57:1302:31#0/1
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+HWI-EAS443:3:57:1302:31#0/1
aR[MP¥`aV¥Y^¥Z_¥]NX]SYQWYW^UWM¥_BBBBBBB
@HWI-EAS443:3:57:1303:769#0/1
GCCGCATTTCTTCAATTAACCACCTTATTTCTCAAATTT
+HWI-EAS443:3:57:1303:769#0/1
ab¥^`]bba`a`U^^a¥a[ZZ^¥Ya__a`a`^aXa[[__`
@HWI-EAS443:3:57:1307:729#0/1
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+HWI-EAS443:3:57:1307:729#0/1
`bbabbbbabaababa`a`aaaabaaa`aaa`b_a_aa
@HWI-EAS443:3:57:1312:1592#0/1
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+HWI-EAS443:3:57:1312:1592#0/1
a_a[aaaa`_a^G_]`Q`Z¥aUT^T¥XLQ^¥^aU^Q__^^
@HWI-EAS443:3:57:1340:1123#0/1
GTCGCTTTCAATCTGTGCCGCATTTCTTCAATTAACCACC
+HWI-EAS443:3:57:1340:1123#0/1
aaaa]aaa_a`_a_^b`^^^aa`a`aa¥_aa`_a]^_]]

@HWI-EAS443:3:57:1367:96#0/1
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+HWI-EAS443:3:57:1367:96#0/1
a¥`^Q¥^U`X__U_VXaaYRY^NS[_YPUSZ^XTXMMM_B
@HWI-EAS443:3:57:1374:1252#0/1
CTCGCTGGATTCTCTTTCAAGATCCATTCCACGATTTGT
+HWI-EAS443:3:57:1374:1252#0/1
ab_N¥bbbabb`S`]bab_baaa[aaaaaaPaXaa`aa`
@HWI-EAS443:3:57:1384:180#0/1
CTGGTCCAATCGCACGCAAAGAGGGCCTATTATCTTTTGC
+HWI-EAS443:3:57:1384:180#0/1
abbb_bbabb`aabababaaaaaa`ab`baab[bbbaS_
@HWI-EAS443:3:57:1412:321#0/1
GATGAGAATGGGAGACCTTCACTACCTCCAGAGCAGAAAT
+HWI-EAS443:3:57:1412:321#0/1
T]`aX_M_`[ZSza`^Z_U^^QU¥LXaZ``_R_^]¥YTV]
@HWI-EAS443:3:57:1412:679#0/1
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+HWI-EAS443:3:57:1412:679#0/1
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@HWI-EAS443:3:57:141:1337#0/1
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+HWI-EAS443:3:57:141:1337#0/1
a¥a`aaba_U_````_a`````_aZ^_a¥````_YV¥[^[^
@HWI-EAS443:3:57:1479:206#0/1
CGAGAAAGCTTATCTCTTGTCTACTTCAAGCAGTAGT
+HWI-EAS443:3:57:1479:206#0/1
^_P_UYUX]aY^a[a`a`a]]^`__[¥_a^`UVXZ]W^BB
@HWI-EAS443:3:57:1499:33#0/1
AGAAACTGTGATGAGAATGGGAGACCTTCACTACCTCCAG
+HWI-EAS443:3:57:1499:33#0/1
_aaa`abaSa_ab[^Za`baa_a[UOY_]P]`ROYUR]_
@HWI-EAS443:3:57:1551:599#0/1
CCGCATTTCTTCAATTAACCACCTTATTTCCCTCAAATTTTC
+HWI-EAS443:3:57:1551:599#0/1
Y[a_aa`_Z_b¥^^ab`a^VW[aaa^baa]¥`aaa`aaa`
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+HWI-EAS443:3:57:1629:568#0/1
abbbbbbabbbbababaaba_ba_aaaaaaba`aaba`aab
@HWI-EAS443:3:57:1641:1171#0/1
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+HWI-EAS443:3:57:1641:1171#0/1
[ab_babX¥Mba``]b_b[Z_0_¥SaaHVO^WFF`TLR_X
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CACGGTTCGAGTCTCTGAAAATATACAGAGATTCGCTTGG
+HWI-EAS443:3:57:166:66#0/1
a_bba]bb`b_aa]ab__^aa_a`[`a¥aYZZU`[Y_`_
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@HWI-EAS443:3:57:479:1043#0/1
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+HWI-EAS443:3:57:479:1043#0/1
abab[]¥aa`^a`a`^a^¥¥_[]QW`_]_`_`a^[]¥_¥[]`_`
@HWI-EAS443:3:57:566:1505#0/1
CCGCATTTCTTCAATTAACCACCTTATTTCTCAAATTT
+HWI-EAS443:3:57:566:1505#0/1
aa`babbabbaa`abaa`a^aaaaaaaaaaaaaaaaaaaa`a
@HWI-EAS443:3:57:573:151#0/1
TGCCGCATTTCTTCAATTAACCACCTTATTTCTCAAATT
+HWI-EAS443:3:57:573:151#0/1
¥a```¥KY`¥`bba`a_aa```^`aab¥aa``aaa_`P]aa
@HWI-EAS443:3:57:599:1348#0/1
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+HWI-EAS443:3:57:599:1348#0/1
ab`ba`abbbbbbabbab```aaaaab`aab_`Z_aaa
@HWI-EAS443:3:57:622:1572#0/1
GAAAATATACAGAGATTCGCTTGGAGAACTGTGATGAGA
+HWI-EAS443:3:57:622:1572#0/1
a[a`aa`baa`[]X`aaa`_a__Vsa```^[a^_`[]__aX
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CTTGGAGAACTGTGATGAGAATGGGAGACCTTCACTACC
+HWI-EAS443:3:57:627:626#0/1
`bbUTX[]]TXa`Y`Y¥_P]RRQ``^W[HVZ_¥[a]T¥^Z
@HWI-EAS443:3:57:688:2012#0/1
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+HWI-EAS443:3:57:688:2012#0/1
a]_T_S_a]XU`_`_`[a`UT^YPaZX`^_]¥[UX¥¥__W
@HWI-EAS443:3:57:714:719#0/1
GCCGCATTTCTTCAATTAACCACCTTATTTCTCAAATTT
+HWI-EAS443:3:57:714:719#0/1
[]]_`bba]]aba__ba]^`^]`a_aaaba`aaa¥```[]`aa
@HWI-EAS443:3:57:746:348#0/1
AACAAATCGTGAATGGATCTTGAAGAGGAATCCAGCGA
+HWI-EAS443:3:57:746:348#0/1
a]0_aa_T__a`¥``ba¥YP[]]¥`^Z`a`aU[V_`WV][
@HWI-EAS443:3:57:755:1196#0/1
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+HWI-EAS443:3:57:755:1196#0/1
abaaabababab`ab``ab`a_aa__a`aa```__`^¥^]a
@HWI-EAS443:3:57:782:1153#0/1
CTTGGAGAACTGTGATGAGAATGGGAGACCTTCACTACC
+HWI-EAS443:3:57:782:1153#0/1
a]^`Y`ZWT_ba]GX[`¥U^PW¥_`bQ_T^VVN_`Ytz[V
@HWI-EAS443:3:57:795:182#0/1
GCCGCATTTCTTCAATTAACCACCTTATTTCTCAAATTT
+HWI-EAS443:3:57:795:182#0/1
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@HWI-EAS443:3:57:989:690#0/1
CACGGTTCGAGTCTCTGAAAATATACAGAGATTCGCTTGG
+HWI-EAS443:3:57:989:690#0/1
_WF^_Y_Z[¥]WY_Y`YOWV[[TW^ ^]¥_¥` [T]]]Z¥
@HWI-EAS443:3:57:998:1001#0/1
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+HWI-EAS443:3:57:998:1001#0/1
a`_aabab_a`a_aa_aaaaa`a___a`a`a`_Z]__`a
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+HWI-EAS443:3:58:1022:1508#0/1
a¥^_aabbbbbbabba`aaXZ]`aaa`a`aaaa`^a`
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GCCGCATTTCTTCAATTAACCACCTTATTTCTCAAATTT
+HWI-EAS443:3:58:1102:1889#0/1
TYabb`ba]^_b`bbba_H_a^b`bbba___`b`abbb
@HWI-EAS443:3:58:1127:1426#0/1
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+HWI-EAS443:3:58:1127:1426#0/1
aaaaaUb`ab]aaa_aaa^`G^Y__R_Sa_X`^`^]_`_`_
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+HWI-EAS443:3:58:1130:1415#0/1
a`aaa`aaZY]aa_a^`_`a^]a^YV__0`^`_R]_VX__
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+HWI-EAS443:3:58:1156:1484#0/1
`aaaaabaaa_bba`aa`a`_`a`aa_a__^a`^a``UQ
@HWI-EAS443:3:58:1191:1309#0/1
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+HWI-EAS443:3:58:1191:1309#0/1
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@HWI-EAS443:3:58:1202:735#0/1
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+HWI-EAS443:3:58:1202:735#0/1
a`^W[^a_XZO_VWYSabW[aZY_[a¥¥^`RZRRT`VF^_
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+HWI-EAS443:3:58:1264:504#0/1
aaa_a`¥__a_aa`^[_`a`__`__`^^¥`_`a`___`]a
@HWI-EAS443:3:58:1277:834#0/1
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+HWI-EAS443:3:58:1277:834#0/1
abbabaaabaa_a^aab`_`a`_`baWaa_aaa`a]`a
@HWI-EAS443:3:58:1278:1100#0/1
CGCTACCTTTCTGACATGACCCTCGAGGAAATGTCACGAG
+HWI-EAS443:3:58:1278:1100#0/1
aaa`a`_a[aaa`_`[_`_V¥`]UX_UYNY[_`_VWY[[XV
@HWI-EAS443:3:58:1283:531#0/1
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+HWI-EAS443:3:58:1283:531#0/1
^^YZ^]b_X^`¥^]`X`a__^aZa`a`]`aa_¥¥W`P¥a
@HWI-EAS443:3:58:1306:1052#0/1
ACCTACTTCGCGCTACCTTTCTGACATGACCCTCGAGGAA
+HWI-EAS443:3:58:1306:1052#0/1
aaaaaaaaa`aaa__a`__`^^`_`_^ZZ`¥_¥[_
@HWI-EAS443:3:58:131:713#0/1
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+HWI-EAS443:3:58:131:713#0/1
aaaa_ZaZ0```[^a`R``[UROYTX[Z[[WU¥VZ^_^]¥
@HWI-EAS443:3:58:1340:879#0/1
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+HWI-EAS443:3:58:1340:879#0/1
a`^baaa_a[¥`]_¥[``_]`^__Xa__aa``^_U^[^a`_
@HWI-EAS443:3:58:1345:1548#0/1
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+HWI-EAS443:3:58:1345:1548#0/1
aaa_aa]a```_a^__a`a`_][Z^_] [EW_^Y^WX`_X_
@HWI-EAS443:3:58:1366:896#0/1
CTAATCGTTAAAGATTACACTGAAGTTTCGCTTTTCAGTAC
+HWI-EAS443:3:58:1366:896#0/1
`b`b`b`b`_Qaabb_]`bbaa¥ab_ab_b``^`ba`_a`a`
@HWI-EAS443:3:58:1372:1604#0/1
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+HWI-EAS443:3:58:1372:1604#0/1
_[^_MI[[aWSVLYXV]YMTZ[RNRTVPI[ZX]QVW¥NP
@HWI-EAS443:3:58:1377:1691#0/1
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+HWI-EAS443:3:58:1377:1691#0/1
aa_YU¥aXSXSZ_W¥Q[L[NTNLFLWZZXSYLQ]XH^H[Y
@HWI-EAS443:3:58:1398:216#0/1
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+HWI-EAS443:3:58:1398:216#0/1
`YS00]_ZQQ_SY[WZYTZ[QUOX¥[``]UZTU_ZW¥YY[X
@HWI-EAS443:3:58:1410:1184#0/1
TGTCGCTTTCAATCTGTGCCGATTTCTTCAATTAACCAC
+HWI-EAS443:3:58:1410:1184#0/1
a^^aa` `a_]TYU__^a^Z_] [^_¥a_]¥¥` [`ZXX^]
@HWI-EAS443:3:58:1411:730#0/1
GAGAATGGGAGACCTTCACTACCTCCAGAGCAGAAATGAA
+HWI-EAS443:3:58:1411:730#0/1
aaa`aa`Xa`ba^]a_]a]``]¥`Z^`a_aN_a^[]`_``
@HWI-EAS443:3:58:1428:684#0/1
GTGATGAGAATGGGAGACCTTCACTACCTCCAGAGCAGAA
+HWI-EAS443:3:58:1428:684#0/1
¥DVQUSU¥T^a`a_ZY[YHT[[^^¥VUNY[LWJQLYU_RR
@HWI-EAS443:3:58:1430:378#0/1
AAATCGTGAATGGATCTTGAAAGAGGAATCCAGCGAGAC
+HWI-EAS443:3:58:1430:378#0/1
a`X0¥`]`¥_]``_ZQ^_Z¥`Z_Y¥¥SZXW]^_UTO`P¥

@HWI-EAS443:3:58:1452:357#0/1
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+HWI-EAS443:3:58:1452:357#0/1
aba_a`a`a`_`aa```a`aa```aaa`_W`_`a`a^a¥
@HWI-EAS443:3:58:1462:344#0/1
GCCGCATTTCTTCAATTAACCACCTTATTTCTCAAATTT
+HWI-EAS443:3:58:1462:344#0/1
aaa_0]ba_X¥^Xaab`aa]WYUU`^`a`[¥¥`^Z^[``¥
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CGCAAGCGATTTGCAGACAATGGATTGGGTGATGCCCCAT
+HWI-EAS443:3:58:1506:559#0/1
abbbab`ba`abbaaaaa`a_baaZ_¥]aZa_¥aTQR`_`_`
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+HWI-EAS443:3:58:1512:1059#0/1
aabb`abbbba_aaaa_ba_a_aaaa`a`_`^aa[a_____`
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CTCTGTGCTTTCAATCTGTGCCGCATTTCTTCAATTAAC
+HWI-EAS443:3:58:1567:684#0/1
abbbbaabaaaa`abaaa`]b_aa[aaaa`aaaa`aaaaZ
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+HWI-EAS443:3:58:1743:943#0/1
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@HWI-EAS443:3:58:1766:1461#0/1
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+HWI-EAS443:3:58:1766:1461#0/1
V^][YJV]b]a`X^`¥ZV]Sa`_[Z`]]¥WXFLXN[P[_¥
@HWI-EAS443:3:58:1774:1105#0/1
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+HWI-EAS443:3:58:1774:1105#0/1
`b`a_ab]`aa`^b]`a`^`aaa`_aZ`a`_`a`_`X`^¥^
@HWI-EAS443:3:58:1788:402#0/1
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+HWI-EAS443:3:58:1788:402#0/1
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@HWI-EAS443:3:58:239:1954#0/1
CGATGAGGACCCCAACTGCATTTTTGACATCCTCATAAGT
+HWI-EAS443:3:58:239:1954#0/1
abaaaab```]`ab`aaa``aaaa`^aa`a_W]`_`aa_]0
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TGAGAATGGGAGACCTTCACTACCTCCAGAGCAGAAATGA
+HWI-EAS443:3:58:259:911#0/1
abaaababb`aaa`aaaaaaaa`_`_`a`a`_`_`^`_`a`_`
@HWI-EAS443:3:58:290:498#0/1
AGAAACTGTGATGAGAATGGGAGACCTTCACTACCTCCAG
+HWI-EAS443:3:58:290:498#0/1
ZU¥^^]aa[``¥b]aaa¥```]Q^`_`Y][a`_`¥YVQ[_`^X^
@HWI-EAS443:3:58:299:1417#0/1
GGAGAACTGTGATGAGAATGGGAGACCTTCACTACCTCC

+HWI-EAS443:3:58:299:1417#0/1
^]^^^[X`a^a^_]^a`a`^[XYa^XU¥`_[]Z]Y¥_
@HWI-EAS443:3:58:300:524#0/1
GCCGCATTTCTTCAATTAACCACCTTATTTCTCAAATTT
+HWI-EAS443:3:58:300:524#0/1
a__a^Y_WX`_^UX]¥H^U^YZU^]]]]SZSZX[]YWX]
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@HWI-EAS443:3:58:321:852#0/1
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+HWI-EAS443:3:58:321:852#0/1
a_]aaaab^[[`a_`^^`^^`]^_`^[[^^_aXNX]_^
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+HWI-EAS443:3:58:32:210#0/1
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@HWI-EAS443:3:58:334:191#0/1
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+HWI-EAS443:3:58:334:191#0/1
a`T`P^`_XS¥SPX_]^^_X^QSW^__`^R¥_]TLX`XZ
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+HWI-EAS443:3:58:340:1008#0/1
_a]aaaa`X_a_aa]`a^S^__X[TaW__Y_^_]^^WYS
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+HWI-EAS443:3:58:417:406#0/1
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+HWI-EAS443:3:58:422:1666#0/1
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TTTCAATCTGTGCCGCATTTCTTCAATTAACCACCTTATT
+HWI-EAS443:3:58:435:238#0/1
abbaa_aaab`aa`b`_aaa_aa^`a`^^`____]a`_a`
@HWI-EAS443:3:58:46:1582#0/1
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+HWI-EAS443:3:58:46:1582#0/1
aa]a]a]a]`a]`a`_ZQX`]Y^_^`^_____^][
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a\_\_aa[aaa`aa`\_`aaa`^a\_\_`^¥\_\_a^X`\_^ZZ`\_^  
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aa]]^^ZaX¥¥a]\_Z`Z¥RYV`^\_Y[Z[]V\_XFSWWV  
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+HWI-EAS443:3:59:726:1898#0/1  
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+HWI-EAS443:3:59:747:163#0/1  
a\_aabaa\_a[\_`a`\_a^`^`^¥^\_¥[`T`^`YZV^WRUW  
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+HWI-EAS443:3:59:776:369#0/1  
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+HWI-EAS443:3:59:789:642#0/1  
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+HWI-EAS443:3:59:812:1304#0/1  
\_^`aa¥`abab]baba^a`¥aabaa`aXa``¥`aXP[\_Z  
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\_`Y\_aYa]a`aa\_U[\_YV¥W[0^R^a]X\_\_QS¥]`\_`aaB  
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+HWI-EAS443:3:5:1540:1665#0/1  
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+HWI-EAS443:3:5:1555:367#0/1  
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¥Ya^^aa`aZVa]\_Xa^Y¥]¥`a`][\_a\_X\_ZVW]\_\_YaB  
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+HWI-EAS443:3:5:284:1245#0/1  
a^b`abaaa`bbba`b`\_^b``a```\_\_a^\_\_a\_a[aa`]  
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aa`\_a`a^`\_`\_^]a`\_a`\_S^^^\_\_\_\_]a]a`\_^W`^^  
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+HWI-EAS443:3:5:446:517#0/1  
\_]¥]^`b\_a`^a[`]Y\_ba`^a` `a` `aa\_aa` `[L]\_\_\_\_  
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+HWI-EAS443:3:5:459:399#0/1  
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+HWI-EAS443:3:5:520:485#0/1  
a]\_Z` `a`\_a^` `b`aXa]a\_\_\_\_a\_¥a`\_ `a^b\_^\_a`T  
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a\_`b]^[^`Ta[a\_`a`aa`¥X^VFX\_[¥aX\_`M¥\_`^\_  
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+HWI-EAS443:3:5:876:987#0/1  
a`Q\_aa¥aaaa^a\_Tba`aWa\_a`VTN¥a[`\_\_^\_\_\_\_a`  
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+HWI-EAS443:3:5:897:1069#0/1  
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+HWI-EAS443:3:60:1189:224#0/1  
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a\_aaaa\_\_aaT¥a\_a\_[¥`a[\_a\_[\_`^`\_\_aRX^`\_]\_¥Y  
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+HWI-EAS443:3:60:1575:842#0/1  
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^a^\_V```aba[Y\_^a^^VaT\_PYX]^a^X\_[Z¥YY[]T\_  
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+HWI-EAS443:3:60:1778:1314#0/1  
aa^^]a`\_`a`\_`\_`VU¥^]Y]Z\_\_\_\_]`^X¥]^]]\_¥  
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+HWI-EAS443:3:60:341:670#0/1  
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+HWI-EAS443:3:60:354:41#0/1  
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+HWI-EAS443:3:60:412:155#0/1  
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aa`aaZaaaaa\_a\_a\_aa^\_`\_]\_a\_\_aa`\_¥``aX^a`^  
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+HWI-EAS443:3:60:983:1590#0/1  
abaaa^a`aa^a`abaaa\_a``¥`\_\_[\_`\_\_\_\_a^Z`V^^[\_`  
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a]U]^\_XXZ\_aa\_[[a]Y]````^¥R¥¥[VSPWU\_]V]VV  
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aaa`a\_a`\_a[\_`aa`^`a`aaa`^`\_]Y^^]ZWW  
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` ` ¥ [ ` ` TYJ ^ ` \_UZ] U ¥ SWUXNOW ` ` P ^ ] Z\_RYTTOS ^ P  
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+HWI-EAS443:3:61:1246:1458#0/1  
aa^¥\_\_^aa\_\_`^\_Ya`\_a`\_aa\_\_\_\_`^]Z¥^Z]ZXZX]  
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` ` ^ ` aabb\_`¥aa^`\_[aaaaYaaaa` ` [^^^ZUZ]Y[WW  
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ab`aaabbaa`a^\_a`aa`aU`\_` ` ` ` ^a\_W\_¥S¥^UM  
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^Xab`bZYaa`S` ` \_aaaRQ]bb¥` ` ` ^]WG¥OY\_\_\_\_]]R  
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ZaZ]^`¥\_\_¥\_]UQY^ab^^^b`\_^\_^[\_a[V`¥TYY[Z  
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+HWI-EAS443:3:61:219:688#0/1  
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+HWI-EAS443:3:61:319:1083#0/1  
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a\_]`^^^¥]`^^^Y\_XP\_]]]^]SZ^^]]]]^]\_Z^XZ  
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\_SZ]`\_abb`aa`^baabba\_Z^a`aaaa\_a`\_`\_[Z^\_^  
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aba\_aa`a^W\_\_\_^a^`aaVTb\_\_\_¥a^`Z\_Z\_]^^`]U  
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¥[]a`[Z`¥][`XVZ]^Y¥`¥P]a^¥¥^a\_W^U¥UV¥ZW  
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+HWI-EAS443:3:62:1197:1233#0/1  
aa`ba\_aa\_a`aa\_a`^a]```\_]\_[X^`\_`\_aa\_aV]^^```  
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+HWI-EAS443:3:62:1223:1169#0/1  
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+HWI-EAS443:3:62:1354:1626#0/1  
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+HWI-EAS443:3:62:1361:107#0/1  
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a¥aaa`aa`¥¥\_¥\_\_baaaa¥`\_\_^`^`a\_`\_]`^¥`\_]  
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¥]bbaa]^ba\_b^ba]¥a`b^`¥aX¥\_[aba[`]`^]`\_a  
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`bY[bUa\_\_WU``\_b^\_aba\_NYWUX```\_`\_aYZS¥^`\_`a  
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aa^]]\_a\_a¥aaQaaaaba]O¥aR^a^^aaa\_^[]\_\_b``  
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abaaa``^`ba``aaa`aaaa`a¥`^aVaa^\_a\_aUZ````



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^QU`^X^TVYQ¥^V¥\_W[^`^\_\_SNV¥WWW\_[\_ZTW^UWX^S  
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aaaa`^^¥\_a\_]\_]\_aa`aaa\_Z^`\_]a\_a\_[S]ZWY``  
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a`_a_aaaa]aa^^^aaa```_]`__`a`^`a_]`^aaa
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a¥^`_X`_^]_^_X]__WZV^ZXU^^^_^]WU]ZXXZ^ZZ
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aaM`_`a[bbbaaaa^a`_a]]^_Y]`__a_a`_`¥^a_a_
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+HWI-EAS443:3:62:468:328#0/1
a[_a_```^a`__`Z__^``]_^^Z^^^]_^ZZWZ]^
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+HWI-EAS443:3:62:509:1909#0/1
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a_Y¥^VT`¥^`ZY]_^^^__^a__^_]^^`]^_X_ZZ_
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a_b`^a]a^_aa_`_a`a``_a]_]`__^_^_]_X]^_
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`_¥baa¥_]aa_aa_aaa]__Z_^`_]¥QX`Z_[RTVU^
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+HWI-EAS443:3:62:887:1034#0/1
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+HWI-EAS443:3:63:1029:1380#0/1  
a[\_]]``]]``V]\_^U^`\_\_¥[``\_\_\_\_`^¥Y\_\_`WIV¥¥]X  
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a`\_a`a`ab^¥`````]baaaa]a¥`[XTa\_\_\_````]P[a^X  
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TGAGAATGGGAGACCTTCACTACCTCCAGAGCAGAAATGA  
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ab`a`\_aaaa\_a\_\_\_````\_X`WX]^]X]\_¥\_]^^VUX\_]`  
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TGATGAGAATGGGAGACCTTCACTACCTCCAGAGCAGAAA  
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M`baV^b\_^aaab^b\_^Paaaaa^\_YU`a\_]aY`^W`SR^  
@HWI-EAS443:3:64:1478:1546#0/1  
AAACTGTGATGAGAATGGGAGACCTTCACTACCTCCAGAG  
+HWI-EAS443:3:64:1478:1546#0/1  
T¥^[0]b¥`b\_U\_`b```]Q¥bbV`Ya]\_[V`Y[Q\_][¥V\_`^  
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+HWI-EAS443:3:64:1503:1466#0/1  
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@HWI-EAS443:3:64:198:384#0/1  
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+HWI-EAS443:3:64:198:384#0/1  
a\_\_JY¥PPP^[aHI^Qa^¥R`VQ\_^`US\_Q^NZHV¥VGQN  
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+HWI-EAS443:3:64:211:356#0/1  
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+HWI-EAS443:3:64:244:1234#0/1  
``^^^aX[¥^^Y[aaaaba[]¥Sb¥¥^STGX\_]^¥^`\_\_  
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+HWI-EAS443:3:64:251:1754#0/1  
a\_abbaabab`a^]¥aaa`\_a\_aa``````a\_`^\_]^^Y¥  
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+HWI-EAS443:3:64:252:1564#0/1  
aaS¥UPY\_a`aaU[Z`a`\_VS[a`\_^`\_]`^`\_\_^SY\_XS  
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+HWI-EAS443:3:64:27:708#0/1  
aa\_X\_a`aXa\_¥a]`W^^`¥R¥W^`^^`^W^^]^^]]Y  
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+HWI-EAS443:3:64:297:641#0/1  
abbbab`X`aba\_\_`aaaaaaaaa`Y][````a`aa`````  
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abbbba``aaaaa`^`a`a\_aaaaa`\_a````aa`````]a\_\_  
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+HWI-EAS443:3:64:348:322#0/1  
aababbbaabaaaaabaaa`aaa^^`a`aa`\_a````aa^`a`  
@HWI-EAS443:3:64:363:1728#0/1  
GAAACTGTGATGAGAATGGGAGACCTTCACTACCTCCAGA  
+HWI-EAS443:3:64:363:1728#0/1  
]\_Zaaaa\_bb\_b`V\_aaa\_[aa\_\_`a\_YaX\_a]]^^aZZ`  
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+HWI-EAS443:3:64:387:542#0/1  
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+HWI-EAS443:3:64:401:1300#0/1  
aba¥\_a^¥]a`a^aa````^\_a\_\_`^`^W\_a^`\_\_```^Z^  
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[`b`a`^aababbb[bb`YX^^^`\_`abbaaaabaaa^a\_a  
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+HWI-EAS443:3:64:558:960#0/1  
aaaaabaa`[^`a`Y^\_\_`a`\_``\_`^`Y[a\_X`^W^Y  
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CGCATTTCTTCAATTAACCACCTTATTTCTCAAATTTCT  
+HWI-EAS443:3:64:592:928#0/1  
a\_\_J`\_`bababb^b^\_`\_`[``Yb\_Yaaa^aa`UT``aa`]  
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+HWI-EAS443:3:64:603:1425#0/1  
]¥\_`¥S\_aa\_]`\_]`YWY\_V]``][aa\_Z\_U`[¥aa]^[]  
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aa`aa`a`^a`\_a`\_]`\_`\_`^`^SW]^`\_`Z^^X^Z^YWX  
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+HWI-EAS443:3:64:768:560#0/1  
ab`]``\_`aba]`a]aa`aa`aaaa\_\_`a``\_`a`\_`a  
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AGGCAACACCCTTGGCCTCGATATCGAAACAGCCACTCTT  
+HWI-EAS443:3:64:778:1949#0/1  
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+HWI-EAS443:3:64:785:287#0/1  
aaabaaaaaa\_aa`^a]^`aaaaa`\_\_a```aaUR\_\_]\_  
@HWI-EAS443:3:64:78:88#0/1  
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+HWI-EAS443:3:64:78:88#0/1  
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+HWI-EAS443:3:64:813:720#0/1  
a\_^^^bbb`YFW`]]]aa]¥]W]^\_\_`P^a^]SX\_^\_\_]T  
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^aa`a^aaabbbbaabbb`abaa\_\_a``aaaba``¥\_aaa  
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+HWI-EAS443:3:65:1028:121#0/1  
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+HWI-EAS443:3:65:1049:667#0/1  
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+HWI-EAS443:3:65:1052:538#0/1  
a][``aXaa`Q[]`Za`a\_]¥YZ\_`^^a^`\_`\_\_Y\_\_\_\_]Z  
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+HWI-EAS443:3:65:1110:369#0/1  
^Z]]a^baaa`^```]`ab`]``aa`abaZaaba`aaa`]  
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+HWI-EAS443:3:65:1154:1337#0/1  
aba`aaaa`aaa`a^`a\_aZ`^`a\_``aa\_a\_X]\_`^^\_  
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+HWI-EAS443:3:65:1191:862#0/1  
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+HWI-EAS443:3:65:1219:58#0/1  
a``ZW]^`a[\_VZU]^`[]^YX][ZS][aZ^\_PSW\_`¥¥  
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+HWI-EAS443:3:65:1233:666#0/1  
a```\_`]`ababaaaaa\_``¥abZaaa`aa^aa`aa`a]]  
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+HWI-EAS443:3:65:1258:256#0/1  
aa\_b`\_\_aaa\_a\_\_¥`a\_a^``Y^^Y^^W\_¥¥\_W¥¥¥\_`^  
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+HWI-EAS443:3:65:125:1084#0/1  
\_ZUYaaU¥]aa\_a][XZU¥\_Y`\_RHX]LL[U^a\_ZVHRQ^  
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+HWI-EAS443:3:65:1286:472#0/1  
]aYSZ^^aXa^[[[PV¥Y]`aZ][```TP[]a\_GYUa]¥^  
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+HWI-EAS443:3:65:1306:520#0/1  
^\_`¥W\_]`^V\_WZ[¥^^¥a^`¥a\_`^aaa\_X]^`^^^W\_\_OR]  
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aaY]\_T`\_]Z`aa\_\_^^][ZZY[Z^^^]Y¥^^\_\_`^`\_`^  
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+HWI-EAS443:3:65:1325:405#0/1  
a]Y¥]TaYR]^`X\_W\_ZLXXP\_¥a\_\_``[aa^Z\_¥Z\_[Z^Z





+HWI-EAS443:3:65:1512:540#0/1  
abbaaa`\_babaaaba`^ba^][\_` ]`\_baW\_aa\_a]aa  
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+HWI-EAS443:3:65:1550:282#0/1  
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+HWI-EAS443:3:65:1700:1531#0/1  
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+HWI-EAS443:3:65:1725:1296#0/1  
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aa]b\_b\_^a`aaaa\_b^Z`aaa`aba`a[¥a`\_]`^]`\_\_  
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+HWI-EAS443:3:65:250:524#0/1  
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+HWI-EAS443:3:65:284:1775#0/1  
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+HWI-EAS443:3:65:309:274#0/1  
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\_`^)`]aaa\_J`a`aa`aa\_a\_a\_`a`a`\_`^X^ZW`\_]`  
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+HWI-EAS443:3:65:345:1132#0/1  
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+HWI-EAS443:3:65:431:14#0/1  
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+HWI-EAS443:3:65:831:1394#0/1
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aU¥]__a``]HW_^`]aaa_`]¥Z¥a[`¥_`]^Z`]`_¥]
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aa`aaaaa_aaaaa`a_`aa_^`_`^_a^^`Xa_^][Z
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`Z``¥_^L]YP]a]]]_`a___a¥Z`¥K¥L¥SU]¥Z^[FZ

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a`_`aaYb__]a`_`[`Y^^^]__a`a`_`aaa^Zaa]¥¥^^]S
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^a`¥`_`bbbbbbbbbbbbbb`ab`ba^`abbbb`_`abaaa
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+HWI-EAS443:3:66:1153:169#0/1
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^Z]_`aba]`_]¥[_`a__Y_V¥]`^`[aa`^`^]`aa`^T__`
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a]`_]`][aZaZa`U^X^`]SYZ`_`VU[aa[]XY[^XY^
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a¥abb]aaaaab`X^`a`aab`aWa__`¥]`^U___[___
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_bb`¥¥a` `aaaaabaaaaa]^`aRa_aa^¥aaaa`_`_`
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a`bbbbba`aaaaaa`_`aaa`a`_`aa`a`_`aa`^`__``¥
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a`abaaba`aaa`a`a_a`aaa_aa`_a`a_^^`_]
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aa`a^^a]a^aaa`_aa`_]Y]^Y``_aa_^^]^____^
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a`_`_a^`aa`aa^`_a``^`____```a^a]_`]^Y`_
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+HWI-EAS443:3:66:1393:1482#0/1
a_^bbbbbaabaaa_a`_abaaba_aa`a`_a[Ua[¥¥`^
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+HWI-EAS443:3:66:1473:778#0/1
a`_]U``Y_]``a_Wa_aa_abZa_Z¥_aa^Q^`_[Wa`
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a_T^^)`XX¥_a__`[aa_]¥`_`_]`_`^^^Z_^ZWU[

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¥ZW_a^^b`_P_¥_YZ_Pa`Z]_XU]¥Q_]WY_aXZX_a`
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Sa[XW`Z_[_]T_aaYM[a_¥YXN]VV^[PNVXR]]^YQ
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````YU[a`^Q^Y¥¥]^`\_^]UY[[^VP][^XR[S[Z[¥S  
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+HWI-EAS443:3:66:26:821#0/1  
aa[[^aba]abaabX`XT¥`\_X`\_a\_¥\_^VZ^[X^LYa`  
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aa¥Z`\_aa^\_WIZ`bbaab`¥`aa]a`a`aa`a[LY`]  
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+HWI-EAS443:3:66:340:1736#0/1  
`^a`aTW`]\_Z^]Uaaab]^¥`aa^U`¥a`\_`V]\_[\_\_]  
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+HWI-EAS443:3:66:351:1316#0/1  
a`\_`[]]a\_Y^aa`]`a`a^\_ZYTxa^U[Z`^Z]\_`^¥¥V  
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aa¥`aX^SS]^`a`\_`aba``[[`a]T¥``a`^a\_X¥a\_\_  
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aaa^¥\_]a`aa^a`a^`a`T]]`a`\_`\_Y`\_]U\_^`\_`\_`  
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+HWI-EAS443:3:66:406:1495#0/1  
ab\_\_aa]X][`\_¥\_\_P[aaaS`a`Y\_W`aa`\_`\_`^`\_`\_`  
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a`\_`aa\_aaY\_[a`a`\_]`P¥]^Y\_[[^RYU]\_Y¥]Y¥Y^^  
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¥\_Y``[``WX¥`]]`a¥]a\_a¥Z^ZXZX\_[]Q^XX\_ZJ  
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a``¥a`ab```a^aaaY``\_b`^aaaaa``a`b¥F[a`a`  
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][¥\_VQW\_`]S\_¥[W]YS`\_]\_a¥UX`]\_]`^`]\_a^W¥^]U  
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+HWI-EAS443:3:67:406:1243#0/1  
aaa^Z\_aa^a````a```^`\_WU\_\_^`\_`\_\_`\_`\_\_W\_^`]\_`  
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`\_]\_\_bba]¥a`ba``]^[aaX]]^aa[X\_[\_`^¥^\_a]¥`Z  
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\_\_[bZa^a][a]aZWaa`¥`a¥a^a```\_aa`aa\_\_`\_]`\_`



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+HWI-EAS443:3:67:742:112#0/1  
aaaaa`baXa\_^^^`\_\_````\_`^U[^U\_^]\_WW]¥X^^  
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+HWI-EAS443:3:67:761:146#0/1  
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+HWI-EAS443:3:67:767:765#0/1  
aa\_aa`aaa\_aa``a¥aaa^aW\_`^`aa`\_\_\_¥\_^VL[¥ZU  
@HWI-EAS443:3:67:784:971#0/1  
ATGAGAATGGGAGACCTTCACTACCTCCAGCAGAAATG  
+HWI-EAS443:3:67:784:971#0/1  
aaaaaababaab`\_\_aa`a\_`a^``a``\_```^a^\_Z`a  
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+HWI-EAS443:3:67:841:1501#0/1  
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+HWI-EAS443:3:67:880:798#0/1  
a\_]\_Ya`a]R`Za¥XP`¥S\_a[]`^a]\_Y]`^U^\_]`  
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@HWI-EAS443:3:67:897:526#0/1  
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+HWI-EAS443:3:68:1006:1902#0/1  
`aaa`aaa^aa`a`a`\_aa`\_`¥`^`\_a¥^`\_`^^`^`  
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+HWI-EAS443:3:68:1110:1091#0/1  
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+HWI-EAS443:3:68:1145:923#0/1  
aa]]]a]aaaa`]]]a]a\_\_`X^)`[aY\_Z\_Z`\_`\_`a`\_`\_`  
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+HWI-EAS443:3:68:1212:25#0/1  
aa`V]^\_ZQX[¥aU]]^\_aT[]VM`U¥YY]M^UZEXW¥¥`

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+HWI-EAS443:3:68:1234:322#0/1  
aaa\_a\_¥\_a^Y]a`a\_a[\_\_\_W¥^Z\_\_a^]\_aY¥]Z]W`\_`  
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+HWI-EAS443:3:68:1278:1265#0/1  
aaY`bba^`^Z]ZR^a`aaaa\_a`Z`Y^\_ZXa^[^Y`\_`  
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GAAACGAGAAAGCTCTTATCTCTTGTCTACTTCAAGCAG  
+HWI-EAS443:3:68:1287:258#0/1  
a\_aaZI\_a¥T]^`^¥Ya\_G[Z\_]\_^X¥Q^^^\_\_Z¥S]ZU\_  
@HWI-EAS443:3:68:1309:471#0/1  
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+HWI-EAS443:3:68:1309:471#0/1  
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+HWI-EAS443:3:68:1339:1819#0/1  
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aa¥\_]`\_¥`\_`^`````aZ0`aa```aa`¥T```[\_`Z]a  
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+HWI-EAS443:3:68:1366:1767#0/1  
ab`baaaabb^ba^^`aa\_¥a`ZUa\_\_a\_\_`[\_aR`^\_  
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+HWI-EAS443:3:68:1401:1034#0/1  
]\_a\_aaaa]]b`]¥`abaa\_]`0[aaaa\_^a\_]a\_[a^\_  
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+HWI-EAS443:3:68:1409:1641#0/1  
aababb\_bbaa[]`aaa¥aaaaaa`a[^`¥]U][¥`V`[a  
@HWI-EAS443:3:68:141:61#0/1  
GCCGCATTTCTTCAATTAACCACCTTATTTCCCTCAAATTT  
+HWI-EAS443:3:68:141:61#0/1  
aa`^\_aa`\_````\_a`a```]\_\_\_\_\_^\_X^```\_]^^ZW[\_Y¥  
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+HWI-EAS443:3:68:1461:1432#0/1  
ab`abab`bba]\_aaab`a\_\_`a`aa\_\_^\_a¥a\_\_`````  
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+HWI-EAS443:3:68:1475:1960#0/1  
aaaaaaaaabaaaaaaaaab\_\_a`aaaaaaaaa\_\_\_\_\_aZa\_  
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`aabb]]aaa]\_\_`^a\_aa`¥a`\_\_a\_a\_\_a^¥\_a^\_¥`\_  
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aa`aaaa\_aaaa\_a\_\_aaaa^a`\_]`\_\_aa\_\_^]]\_]`^`]  
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+HWI-EAS443:3:68:1555:1796#0/1  
^b^a`b^aaZ^bbaa]bb¥Z\_aba``]`aaaa`VUJZY`a  
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+HWI-EAS443:3:68:1577:432#0/1  
aa`TT][\_`VVR\_a\_[V¥^a^XY`^]U]X]^Y^^XX^X]  
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\_VQ\_OVa^Y^¥]^`^R\_PP¥]a[aaba\_a\_a^¥a`[]\_F  
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+HWI-EAS443:3:68:1601:807#0/1  
\_b]I]Va`a`aaabb`Yab``b¥b`b``PR]Va¥a^S^\_W  
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+HWI-EAS443:3:68:1636:1530#0/1  
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@HWI-EAS443:3:68:1652:748#0/1  
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+HWI-EAS443:3:68:1652:748#0/1  
[X¥aWa\_Q]``\_^^``^¥ba`baabaa^]a\_¥\_¥L¥`T\_  
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+HWI-EAS443:3:68:1752:1683#0/1  
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+HWI-EAS443:3:68:1775:962#0/1  
\_^^\_aa\_X^baaa\_a`Za`aa`a\_¥¥aa\_a``a^[]`X``^  
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+HWI-EAS443:3:68:259:1353#0/1  
\_aaaa`aaaa`]\_\_`aa\_`````\_aY¥^^`[¥\_a\_\_\_\_[^  
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aZ^]\_``^`Va^Z`\_\_aaba\_¥NZ[Z\_X\_]]]]XX]ZY]X  
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a[^^]]\_\_a`[^`\_¥]ZIY^`\_`\_]VYaa``\_`\_T0ZaZ¥  
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aa`\_`^Z^\_]`^babaaa^`aaa`a\_a\_a\_]¥YS[\_aZ[V`  
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+HWI-EAS443:3:68:303:1129#0/1  
]a^¥`^Ua]^\_OZMRS\_SQV`\_OWR^Y\_Y^¥W^a\_]\_`^O  
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+HWI-EAS443:3:68:341:1138#0/1  
abaa]abbaaaaa`\_]a\_]\_^``¥LX]`[[^a[SW^```^  
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a^^]a¥Yaa`]a¥^a]\_\_[WZ^`U\_a\_]^[\_]X]YR]XU]  
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+HWI-EAS443:3:68:428:227#0/1  
aa`]aaaaaa\_aa^[[``\_^[`¥^^\_]Z¥]\_\_\_\_\_[[¥\_\_  
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a]\_aaaaaY`^\_a^\_WW^\_\_^]V\_\_^[\_\_^]\_^YY^]]  
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@HWI-EAS443:3:68:453:37#0/1  
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a`S`\_U^ba]G[\_X``]`[Y^[UWXXXa[YNY[NMS¥YY  
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AGAAACTGTGATGAGAATGGGAGACCTTCACTACCTCCAG  
+HWI-EAS443:3:68:469:1684#0/1  
`a[`aaa`U`¥^\_]`^`^a\_[\_\_\_\_]`\_\_\_\_a`X\_\_VY\_]`^V

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^baaW\$aab^\$`aaaaSL`aaaa[XX]a`^Z\_aa\_[[\_a\_  
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+HWI-EAS443:3:68:535:904#0/1  
aaaa`X^aa`aa^\_a\_a[\$`^\$`U^\_Z\_\_\_\_\_Y^^\$VZYW  
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a`U\_aab\_aaa\_]^^^`U]^a`^`\$`\_aa``a`^^a`\_aa  
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@HWI-EAS443:3:68:663:740#0/1  
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+HWI-EAS443:3:68:689:83#0/1  
a\_aaa`\_aV\_a\_^aZUaY[\_`U[^\_\_Y^]\_\_Y\_Y\$]X\_YV  
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\_a`aa^`a`aaa`aaa`aaa\_aa`\_`aa`^`\_`a`\_`  
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a\_abaaaRL]aaaTS¥\_aaZPX\_\_Q\_Z[X\_aXUZ\_[VZLN  
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^[^Y`aa^Tb`aaabaa\_a``[Gb[`a`WYa¥L]a\_a`  
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+HWI-EAS443:3:70:582:181#0/1  
\_^^`^LYZZ\_a]ZOX\_`UMXTR[TZ[XYP¥Y]RZSY\_[U  
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+HWI-EAS443:3:70:670:2028#0/1  
a]X]^\_K\_[SZ`\_T¥T`\_¥`\_a`aa`aa\_\_[¥^¥Za]\_\_  
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+HWI-EAS443:3:70:685:1374#0/1  
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+HWI-EAS443:3:70:687:197#0/1  
\_[^`\_¥a^^baab^\_¥`^`\_ZT]^aaZRa`T]Z[]]H\_

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abb`bbaaabaa\_ab\_abaaa`aaaaaa\_aaaaaaaa\_`a  
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+HWI-EAS443:3:70:713:96#0/1  
a``]aa\_¥```\_^\_^a\_abb]V`a¥P\_N^[]`aQYZUU[Y  
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+HWI-EAS443:3:70:848:117#0/1  
a[`b`ab[baaa]aZ^`]PZ\_b\_\_`a\_a`a\_^^\_¥`\_Y  
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+HWI-EAS443:3:70:867:42#0/1  
a[\_\_\_]^Na\_aa\_a\_\_Yaaa]a^\_0]V]^\_I[XX^¥VV^0  
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aa`a\_b[`aaa\_`a`a\_aa`aa\_aX`a\_aa`^a\_\_a]\_^  
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a`XZaabaababab`baba`aaa`a`aabaa`a\_`a^aa\_  
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+HWI-EAS443:3:71:1122:1306#0/1  
^a\_S\_W`X\_X]aa^^YZ\_^\_ZT^N]aX`\_a\_\_aYN\_XSVW  
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aaaY\_V]`aa\_a\_\_\_YY¥]`aaZY^\_a]^^]`]^`^¥^]]^  
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a¥J`a\_aYX¥ab]]R]`\_]aa¥V^`aa^YY^a``]\_^`U  
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a\_ab\_aaa\_\_¥aZaaaa\_Za\_a`ab^a`V^a`aa]^`\_W  
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`Z]X]\_a`b`^`aYa\_[`YR[\_ZZ`a]`^`^]Y`ZV`a¥0  
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+HWI-EAS443:3:71:1234:1045#0/1  
```\_¥a^]`\_\_U]UQU^]T[U[a``\_¥^¥```aaU\_W]\_V  
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+HWI-EAS443:3:71:1252:1050#0/1
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+HWI-EAS443:3:71:1266:81#0/1
aa`a[Z`a_] [SPU`^¥S^_^[]YV^aY[SZaZ[JUYRG
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+HWI-EAS443:3:71:1300:285#0/1
aba`baabb_aa`abaaaa`_ba`aaaaabaab`a__a^^

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+HWI-EAS443:3:71:1330:298#0/1
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+HWI-EAS443:3:71:1339:1747#0/1
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+HWI-EAS443:3:71:1341:603#0/1
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aa`aba`ba`b^aaaa`a_a`a][]aa`aZa_aa_¥`Z_Z
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+HWI-EAS443:3:71:1389:1447#0/1
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+HWI-EAS443:3:71:1422:686#0/1
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ab`ababb`_aaaa`b`_`a¥a¥`aa][`_`_a__a_V^
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+HWI-EAS443:3:71:162:1452#0/1
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+HWI-EAS443:3:71:1636:1032#0/1
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II^[aaU^a`]Z`^P_]¥b]¥^_WbYaY_VXXUZ[RSdT
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T_[R`_`^`_`abb`TT`^`XaS_WU`babb_]R`^a`RYba
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aaaYa_[a`^^`a`_`_`a`^aW`_`_`_`_`_`]^a¥Y^
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¥^_b`_aaaaba`_`_aaaa_aa____a`_[a_a]YVZ^
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ab_[]^Y[]^aZXL^¥T_¥¥````[Q`Y]_¥_ZTU^X¥
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+HWI-EAS443:3:71:268:797#0/1
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``aaaaba[aaa^aaa_a__a_]_`____]_[_]Y_]]^
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a\_RV^`ZP^^\_]¥IYV[\_a``Sa[[]Y[^]OW[]`UTVXU  
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a`\_¥a]^a[¥^¥]^X\_`^\_\_YRVY^YTVX\_Z^]YY^]aW^  
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+HWI-EAS443:3:71:384:30#0/1  
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+HWI-EAS443:3:71:38:1115#0/1  
`Y`][`a\_aa\_X\_\_\_\_]baa]`\_\_]`a\_] [[]\_]\_ZWZ]^ [P  
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+HWI-EAS443:3:71:405:301#0/1  
aaa`aaaYa`aa¥a]a` `[`\_\_]\_\_\_\_]\_] ]^]]^^\_^]Y  
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+HWI-EAS443:3:71:474:152#0/1  
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+HWI-EAS443:3:71:545:506#0/1  
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+HWI-EAS443:3:71:549:171#0/1  
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+HWI-EAS443:3:71:605:976#0/1  
aabV^`^`a^a\_XZ¥Wa[]Uaa\_\_aaa`aaa`a`[``[\_\_\_\_  
@HWI-EAS443:3:71:619:672#0/1  
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+HWI-EAS443:3:71:619:672#0/1  
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a`aYaa`[[`\_`^V]aTZ\_`Ya\_`\_```\_YY¥]\_]`\_[R  
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+HWI-EAS443:3:71:755:229#0/1  
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+HWI-EAS443:3:71:784:1012#0/1  
Za`Y`¥^a`ZaXYVTL[¥S[WYX][ZUXa`\_P¥\_aZ^]a  
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+HWI-EAS443:3:71:791:1182#0/1  
^`^`^`aa]QR`]`\_a\_aa^]`a¥[\_aa^^SN[`a]]^^]\_  
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+HWI-EAS443:3:71:873:213#0/1  
a¥aXU^aaaa`SY¥a\_\_[aa`aYW\_]Y\_\_\_U\_¥0¥aU¥X]  
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+HWI-EAS443:3:71:942:1310#0/1  
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+HWI-EAS443:3:72:1030:1982#0/1  
a`¥^a^`^aa\_`^`\_¥^`\_¥`^^aVUOVXX\_`^`\_\_V\_X  
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+HWI-EAS443:3:72:1047:1720#0/1  
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+HWI-EAS443:3:72:1050:1347#0/1  
a`]^bb^^a\_Za\_JZ]\_a`¥S^\_a^]S]\_\_^J¥a^YW```  
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+HWI-EAS443:3:72:1065:1082#0/1  
a`ba``\_]baaa`Xa`¥V^Y^`]a\_`^a]]\_\_\_\_\_`W```  
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+HWI-EAS443:3:72:1225:1693#0/1  
a\_\_a\_a`a`\_a`\_Y^\_\_`\_]\_^]`^`a^\_\_\_\_[\_^]\_¥]  
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+HWI-EAS443:3:72:1234:305#0/1  
^]`^`\_YU¥``\_a^^^^a^]`a[[a\_TSUZ[[\_¥P¥XT\_\_\_\_  
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+HWI-EAS443:3:72:1273:1083#0/1  
a\_\_aX\_b``aa\_aaa^^^a`aa\_dW[``\_a`\_\_aZa¥Y]\_\_

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aa`^JY¥T`\_a]Z^\_TTWaa`\_YW]¥^\_a`¥\_W\_]\_]\_  
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+HWI-EAS443:3:72:1476:132#0/1  
a`a`aaa^aaa\_aaa^a`^\_aZa`\_a\_a`^`^]¥\_ZZ\_W]¥T  
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a`¥Xa^^`a[a\_^aTa¥\_]`[Z`R[WS¥^R]XYY]Y^VG  
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+HWI-EAS443:3:72:1743:463#0/1  
abbaa\_aaaaaa`Z\_a`^a`^`a\_a]a`a]Z`\_`]\_  
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a`\_Ua^^¥\_\_X]b``\_YS`¥ZZ]XW]aa`[[]]\_`^`X]  
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^¥`X[XYR¥`\_\_Zaa\_`bab`U0[\_]V]ZZ^^`\_\_  
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a`R\_`S\_SS[[]XKOVZ¥aNFXY¥^U[NRQY\_[TXTTRQ  
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+HWI-EAS443:3:72:353:1320#0/1  
a`a\_aa\_aaaaaaa^a`aaa```aa`a^aa`^a`\_\_^]\_  
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+HWI-EAS443:3:72:462:1076#0/1  
a^V¥YKP[^a[]\_U]^\_aT0`]a\_\_\_\_ZZY^\_a`^`V[]ZY  
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+HWI-EAS443:3:72:47:952#0/1  
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a\_aaYa`aaa`aaa\_\_a\_^a[``\_a\_\_\_\_XQ```aSV¥RU]^`Z  
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a\_aZ^\_]`^¥V]a\_^YZWWT¥¥^YVWVXXX]]YX^^^U^  
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+HWI-EAS443:3:72:699:778#0/1  
aa\_Zaaa\_U\_\_a\_V\_]`^\_Z\_```¥```W[^\_`V¥¥]Z^¥^  
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+HWI-EAS443:3:72:721:1498#0/1  
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+HWI-EAS443:3:72:962:1026#0/1  
aT¥^¥]¥`a`b`\_`\_]bZ[Y\_[aa\_¥¥R`YX`YS]`a\_  
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a[aaaa]aaa`aaaaaa`\_a`\_`aa`a^`\_\_`\_\_`^```  
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`[\_¥^\_UX\_aVa]¥P\_a`\_\_`Z^^[^\_\_¥^^]^ZSS`V  
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+HWI-EAS443:3:73:1222:766#0/1  
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]]R\_`^`aYaa\_a¥]^`^¥]aU\_`^¥LWR^\_Y`\_\_`X]^\_Z^]  
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+HWI-EAS443:3:73:1534:1328#0/1  
¥K\_\_` ` \_TR^\_\_^YYNRV[¥\_\_`X¥V¥NW[SS¥¥UWWVRR  
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\_¥\_bba]¥Z¥\_aa¥[[TT`X¥[\_^]X][JYVX^`TQO\_0J  
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aaaaa`a`aa\_a^`aaaa^a\_aa`aa\_a\_\_\_\_a¥\_\_]`\_^  
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^a¥` ` `babaaba[\_]Z\_a^ZYY\_` ` ` \_a\_`VWV`Y`\_\_Q

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`\_`aW^^aa`aaa`^^^^`a^¥``¥^\_\_¥`\_W\_^] ^¥\_  
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]^T^Z^¥¥^¥^`^b`^YFY]babab\_GY`^R]`[a¥\_¥`  
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a``aaa\_aa`\_\_a\_]\_^a^`]\_\_]^YLY¥]]^]]XZ\_] ^X  
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¥\_]ab\_baa`b`a\_ba¥a`a\_a[a\_\_a^Ya\_\_`a\_aTaaW  
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+HWI-EAS443:3:73:377:1903#0/1  
aUSVS^XDTa]\_V¥\_T]]¥[¥`Y``RKZa`Za^`Y\_\_\_\_]I  
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+HWI-EAS443:3:73:488:1289#0/1  
\_]`a^VX\_]\_¥\_`¥X\_`Z]\_[a\_Z^^¥Z`\_^ZZ\_V`¥USV  
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aab`aaaa`aa\_\_`a\_\_\_\_]\_`^Xa\_`]\_\_\_\_`]]\_`\_]  
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a^U¥^aaabb`baaaab\_OW¥aaa`aYaa`a\_a]a\_a^\_a  
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a`aaaa`aa`Y]aa\_\_a\_\_\_^Y^[Ta[\_a]^^X^]¥X¥\_  
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aaRR]\_[`a[0¥F^aa`aa^\_a\_S]YV]Z`a`\_\_Z^\_^\_[  
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+HWI-EAS443:3:73:75:1215#0/1  
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¥QP][^M¥a)```\_W\_a`a]\_a[SYR[^[Z\_VX]`][[¥  
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aaa^aaaa]a\_`aV`]]\_a\_ZZ]]]]\_Z^\_^]\_Y\_^]]]  
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GTGATGAGAATGGGAGACCTTCACTACCTCCAGAGCAGAA  
+HWI-EAS443:3:73:819:843#0/1  
aXaZa\_Z]^`a^\_¥a`a\_^`\_]]\_]]\_]^Z[Z^\_ZS  
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+HWI-EAS443:3:73:828:1678#0/1  
`aaa`baaaa]\_`a`aa`aa`aa`\_aa`]^`\_`\_  
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+HWI-EAS443:3:73:82:567#0/1  
^abbbabbbabbbb¥bbb^bb\_abaabbbbbaaaa^aaba  
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+HWI-EAS443:3:73:841:736#0/1  
aa\_aZTV`X`^aZTZP¥]\_^OS]a\_```\_[\_^`Z[QS]\_¥  
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+HWI-EAS443:3:73:874:473#0/1  
aaaab]bb\_baa]aaaa`a`aaa`a\_\_aaa\_aaa`Y\_^]  
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+HWI-EAS443:3:73:882:349#0/1  
^Y]Yaaaa^\_aa\_a[Y\_Y\_[\_¥X¥Y`X[[SY\_YVW^\_[^U  
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+HWI-EAS443:3:73:924:37#0/1  
a`a^aa`ab\_a\_`a^a\_\_\_a```]\_WVW\_\_UY`\_VR^VU[  
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a^`[aZ\_[`\_]ZU\_baaaa[]U]\_```a^`XUS^YYa`^Z  
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+HWI-EAS443:3:73:979:1848#0/1  
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+HWI-EAS443:3:74:1001:847#0/1  
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+HWI-EAS443:3:74:1040:780#0/1  
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aaaa^`]a\_W^¥\_] [Zaaa`Z]W\_a\_a]\_aa\_[\_¥¥]Z\_^  
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+HWI-EAS443:3:74:1093:1432#0/1  
aba``U]\_^ [ZZWTWaaa`][^a`aabZYY`]aa[]`bXa  
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+HWI-EAS443:3:74:1105:1194#0/1  
ab`aa [bbba`ba\_aaaabb`aaaaaa^\_`a`\_b]\_\_`a]  
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+HWI-EAS443:3:74:111:1732#0/1  
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+HWI-EAS443:3:74:1130:1015#0/1  
aaTXab`b^a\_0Zaa`aa\_Ya\_]a`^aaZ]^]\_^Z\_\_`[]  
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+HWI-EAS443:3:74:1145:1027#0/1  
[a`aaNa^X\_b[\_[aR`]aab`aZaaa`]^\_X]aYbaXWS  
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+HWI-EAS443:3:74:1145:308#0/1  
\_aS¥[PVa]`PWNas^`][\_U`\_[`^[W\_[TL]aU]YY]U  
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+HWI-EAS443:3:74:1152:559#0/1  
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+HWI-EAS443:3:74:1179:860#0/1  
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+HWI-EAS443:3:74:1269:439#0/1  
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+HWI-EAS443:3:74:130:1773#0/1
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+HWI-EAS443:3:74:1330:1972#0/1
K`aba[H^]`aa^_bbbaa_S]]`_O_]aXSaY¥aa¥¥V
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+HWI-EAS443:3:74:1365:1163#0/1
a[aVX]bX`W_a_`_`¥a]`¥`adWab_H[aa__`____
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+HWI-EAS443:3:74:1427:344#0/1
^¥]K]a^^_Z]a`_X^^`a_`_VT]P^[_YGXaW_X__X
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+HWI-EAS443:3:74:1465:836#0/1
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+HWI-EAS443:3:74:1478:802#0/1
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aa¥bZaab_aaa`b`a_b`aaa_a`b`b`__aX`]]X]
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aa`babbbaabbaabaaa`aaa_aaa`ba`X`_U¥W
@HWI-EAS443:3:74:1536:15#0/1
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+HWI-EAS443:3:74:1536:15#0/1
aWFZbb¥Q_`a]aba]aaa]`aYR_a`Y`_U`Wa[Z[___]
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a`b`abababb^bb_bbbba__a_Sbaabba_aa`a_aa
@HWI-EAS443:3:74:1592:346#0/1
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+HWI-EAS443:3:74:1592:346#0/1
a^U^SaV]`aaYZa^`a_a]aS]ZZ`a`aSU`__[]^]_
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+HWI-EAS443:3:74:1649:647#0/1
a_[Y¥`a`I^_N^YU]ZX_`^Ya[US[aa_]VU[^MYZ_
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+HWI-EAS443:3:74:1671:885#0/1
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+HWI-EAS443:3:74:1694:1454#0/1
Q_`__^ab`_X_VXX^^NaVaaYb¥XLa`a`bba`_]a
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+HWI-EAS443:3:74:1711:905#0/1
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+HWI-EAS443:3:74:1721:432#0/1
ababb`aab_b_bbaaa¥babbb¥¥_b`[b`]a]aaY`NY
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+HWI-EAS443:3:74:1752:91#0/1
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aVa_a[Y`aaa`_a_¥`¥[`a^^]YTX¥¥¥_¥ZUGRP
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+HWI-EAS443:3:74:234:307#0/1
aaa`X^a[b_`a`aa`a[_U__[[^_[_Y___Y¥¥a`¥¥`
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a¥¥^S¥RYa`XXTY_a_a^[T___^X¥[a]`R^`GPX]
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+HWI-EAS443:3:74:27:1899#0/1
aa`]]`aa_`a`Z]Zaa_`_SYVV_ZYYX_]^^XX]]^WZ
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+HWI-EAS443:3:74:324:1757#0/1
^^^`Y][X^IYS]]V]`¥^a[V^^`Y`_[]`TZ]Y^]_`_
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TGCCGCATTTCTTCAATTAACCACCTTATTTCTCAAATT
+HWI-EAS443:3:74:327:537#0/1
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+HWI-EAS443:3:74:353:1819#0/1
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abaaaaab_`aa`a__aaa]a_Y]^`^_]_^]Y]]YY^
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+HWI-EAS443:3:74:354:715#0/1
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+HWI-EAS443:3:74:371:1714#0/1
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+HWI-EAS443:3:74:666:221#0/1
a[`aaY^¥__`_]_^____`^____^__¥^Z[^_^^¥^YW
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+HWI-EAS443:3:74:684:1782#0/1
^a]YY¥bb`[I_aab^WYbXS^^a`^UY`_a]`aa]^_a_
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+HWI-EAS443:3:74:699:454#0/1
aaaabbaabaaaa`a`aa_aa_a`a_a`_a__`a`_^]^
@HWI-EAS443:3:74:716:1216#0/1
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+HWI-EAS443:3:74:716:1216#0/1
aW^aaUa^```Xaaaaa_a_aa`a`_aa^```aa^a¥aZ_
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+HWI-EAS443:3:74:749:952#0/1
aa`aaaaZa__`a¥_``[]_¥[^_a¥Y_^TX^_^_
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+HWI-EAS443:3:74:751:1602#0/1
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_a[____a_[Y0]¥SaT]_V¥_U^_]YW_^a[TZYV]__Y^
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aaa_a``aaaa_aaaa`Ua```]a_^`a``aa_^a`_G`_Z
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_^ba_babbbaaa_]baaaaa`a_aa```_Z^aa_a``^
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+HWI-EAS443:3:74:808:1728#0/1
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+HWI-EAS443:3:74:85:671#0/1
`abaa`a`a_a``a``W[aa`a`^aa[a`__^aaaR¥a]`
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+HWI-EAS443:3:74:947:995#0/1
aZa`aa_b```aa``]V¥_____a]SVa_X`¥__^_^¥
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+HWI-EAS443:3:74:966:458#0/1
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+HWI-EAS443:3:75:1027:1537#0/1
`a`ba`baa``_``_a````_[a^`a`a_a`a_____^
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+HWI-EAS443:3:75:1040:1280#0/1
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+HWI-EAS443:3:75:1111:1734#0/1
]a`_aZ¥_X`^_a¥F^`ab^`aaa_a`UaaZa``]^aUb
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+HWI-EAS443:3:75:1122:298#0/1
aaQWaab_]_``]_aa`a`aa`][G[^`¥`¥_`SN^^^_`
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+HWI-EAS443:3:75:1123:782#0/1
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+HWI-EAS443:3:75:1163:100#0/1
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+HWI-EAS443:3:75:1177:1305#0/1
^¥¥a^a`¥a¥`b`Zbb`aaa`^aaU`^¥`a]^`^Z` [
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+HWI-EAS443:3:75:1199:776#0/1
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@HWI-EAS443:3:75:1204:1066#0/1
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+HWI-EAS443:3:75:1204:1066#0/1
¥a`baabba^abbG]bT`aa`bXa`a^b_aaa¥¥]aaa

@HWI-EAS443:3:75:1221:308#0/1
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+HWI-EAS443:3:75:1221:308#0/1
abbbabbaabbaabaaabba_baa`aaa`aa¥^a_] ^a_
@HWI-EAS443:3:75:1226:1844#0/1
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+HWI-EAS443:3:75:1226:1844#0/1
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+HWI-EAS443:3:75:129:1538#0/1
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+HWI-EAS443:3:75:1326:526#0/1
aab`_aabaaaaa```aa`X]aa]^``]]R_a`a`_`_`_
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+HWI-EAS443:3:75:140:1273#0/1
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+HWI-EAS443:3:75:141:510#0/1
^_b_`¥^_`¥`_]_[`_aRI[[[]VXa^U`[]`^]aba_YY_
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+HWI-EAS443:3:75:1473:591#0/1
`a`^[X_¥¥_X__aaU_Ya_Za_^^^[a]__aaa``_b]R
@HWI-EAS443:3:75:1490:1295#0/1
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Q_bbbabbbbbbb`bbbb`baababbbbbbaabaababaa
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+HWI-EAS443:3:75:1527:703#0/1
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ab`_bbaaa^baa[aa]baa`_a_b`__`ab_aaaaW¥`_
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+HWI-EAS443:3:75:1582:470#0/1
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a_^a_]W`[¥``VU]Z_PR]_`_`_W`a_ZYaYZ^`[]¥U
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+HWI-EAS443:3:75:1640:191#0/1
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+HWI-EAS443:3:75:1683:275#0/1
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a¥`_`aaabaa¥bbS`a`[_¥`_`Waaabb`_Ya^a`_a_
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`¥`aaa_aaa`_```___]^^^_^^_^^_]]Y^X
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+HWI-EAS443:3:75:199:1157#0/1
aaabab``b`aaa]]]aaaa````a`^^`__^^`__^`_^
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aababaabbbbaba`aabaaaabaaaaaab_Y```aaaa
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+HWI-EAS443:3:75:400:1931#0/1
a`^`aa^¥ZVZ^]`R¥^VNRQ[[[_]^]Y_`_Y]R^]`^_SL
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+HWI-EAS443:3:75:402:455#0/1
_¥[¥U_WVTLWZY]T`V`_`XZ^^^UX[W_VY]NYSS¥^V
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+HWI-EAS443:3:75:408:929#0/1
`__`^a`[a__`_]`^a`^`__^^]]^`__`^`^^Y^^¥^]
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a`QV^]JV¥__`ZTZ]`^S[__VX`^`^YVW¥aVS¥^V
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RM^¥]O__T^VWa¥_`[¥Saa^__W_¥YQ]ZJ_[]^X¥NR
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+HWI-EAS443:3:75:600:1525#0/1
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+HWI-EAS443:3:75:623:774#0/1
Sa¥`_U_`a^`^a_Q¥[`¥LWU^S]U^]`a^`X`T_]XTQ
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a¥ab¥^a^a¥]a`_^¥¥^`]__¥`^^_¥[[]^`^]_[]Z
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+HWI-EAS443:3:75:678:1493#0/1
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^N]a[OXa[VYS[NWGWZ[¥][W]V^_¥^WZQZYTYYPNZR
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+HWI-EAS443:3:75:733:1294#0/1
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+HWI-EAS443:3:75:772:388#0/1
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+HWI-EAS443:3:75:983:1186#0/1
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^___a`abba]aaQ¥aabaZ^]]a[[aa`[`]`^``_`_¥
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+HWI-EAS443:3:76:1027:1853#0/1
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+HWI-EAS443:3:76:1028:219#0/1
a^¥a^)`_¥^^]Z]]X]Z_]_^`_X^_ZZY]^]]WUWZW
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_a[_Xa[___UWY_ZY__UXb[^_Z¥aaW]]^`aZ_``]¥
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a`aa^_aaaZa`¥__aa_`^^^¥`_a`aX¥a_]L]`_]
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a```_`a`S_]X__^UZ]YW^]U^U^]Z^ZW
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aW`WTZaaa][[ZZ^`_]W]_^_[`a_]W][U_^V^X^
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+HWI-EAS443:3:76:1279:281#0/1
aa^a_a`a_a`¥`]`a_]a]a`^]_]^[W_XZ_WZ^]
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@HWI-EAS443:3:76:1320:432#0/1
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@HWI-EAS443:3:76:1334:376#0/1
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+HWI-EAS443:3:76:1334:376#0/1
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@HWI-EAS443:3:76:156:1481#0/1  
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+HWI-EAS443:3:76:156:1481#0/1  
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@HWI-EAS443:3:76:1599:1570#0/1  
CTGAAAATATACAGAGATTCGCTTGGAGAACTGTGATGA  
+HWI-EAS443:3:76:1599:1570#0/1  
a`\_TW^b`ab¥aa]ZQ\_a]aaU[X¥``^Waa\_] [ZZ  
@HWI-EAS443:3:76:1696:1119#0/1  
GTTTCGAGTCTCTGAAAATATACAGAGATTCGCTTGGAGAA  
+HWI-EAS443:3:76:1696:1119#0/1  
\_RVFM[`]a\_X`^\_]S\_¥ZPP^\_XZY]XOQT¥X\_]Z^ZX  
@HWI-EAS443:3:76:1711:1118#0/1  
TGAGAATGGGAGACCTTCACTACCTCCAGAGCAGAAATGA  
+HWI-EAS443:3:76:1711:1118#0/1  
aa`a]\_aaa`\_a\_X¥`\_\_\_\_\_^]T]WW[[WZWW`YXWWYX  
@HWI-EAS443:3:76:230:1194#0/1  
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+HWI-EAS443:3:76:230:1194#0/1  
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@HWI-EAS443:3:76:246:1209#0/1  
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+HWI-EAS443:3:76:246:1209#0/1  
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+HWI-EAS443:3:76:307:1135#0/1  
a\_\_`aaaa`\_a\_\_`aZ^a`\_[Z\_^\_]\_¥\_\_YW\_¥\_QW  
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+HWI-EAS443:3:76:363:1096#0/1  
\_\_aaa`a^a\_Wa`aaaa¥`\_aa``aaa`^Z`a`\_\_^\_Z  
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+HWI-EAS443:3:76:372:357#0/1  
a``[W[^Ja^]\_S^^¥¥Wa[^T^\_VVb\_aa^^K^^TP[a\_  
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CGCATTTCTTCAATTAACCACCTTATTTCTCAAATTTCT  
+HWI-EAS443:3:76:405:1771#0/1  
¥U\_babbbbbbbbababbb^aabaVU\_`PZLRH¥]Y`\_^\_P  
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+HWI-EAS443:3:76:431:805#0/1  
^¥`a`^`a^[a\_\_\_aa\_\_a`\_\_\_a]a]aa¥\_^\_]U]^`Z\_  
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GTCGCTTCAATCTGTGCCGATTTCTTCAATTAACCACC  
+HWI-EAS443:3:76:462:144#0/1  
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+HWI-EAS443:3:76:491:1030#0/1  
`Z`X`^]W[VW^Y¥`]^U¥¥\_ZQL]QT]]][YXZVVVUVGW  
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+HWI-EAS443:3:76:535:1510#0/1  
abaa`¥\_aaaa`a\_W\_a`a]`aaaaaaa`aa¥aZVZ[a\_`  
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+HWI-EAS443:3:76:536:243#0/1  
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+HWI-EAS443:3:76:53:59#0/1  
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+HWI-EAS443:3:76:580:428#0/1  
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+HWI-EAS443:3:76:591:51#0/1  
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+HWI-EAS443:3:76:607:211#0/1  
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+HWI-EAS443:3:76:617:377#0/1  
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+HWI-EAS443:3:76:623:1726#0/1  
]\_b`R¥`abbbb`^¥`baa\_a``\_SZSX]baTb¥YVa^`¥  
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+HWI-EAS443:3:76:674:1185#0/1  
Z^a`^`a^[^a\_\_S\_a`]^\_^`\_WZW`\_`[^\_]QX¥WSZZ  
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CCCATTCTCATCACAGTTTCTCCAAGCGAATCTCTGTATA  
+HWI-EAS443:3:76:683:703#0/1  
abb`bbb`bbba\_\_\_bZ`^¥ab]\_]¥\_\_Z`[L]a\_a\_[a[  
@HWI-EAS443:3:76:695:1769#0/1  
CCGCATTTCTTCAATTAACCACCTTATTTCTCAAATTTTC  
+HWI-EAS443:3:76:695:1769#0/1  
\_aa```babbab`[``\_Z`bbbaa`aaaa`a\_`^Z\_``\_a  
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+HWI-EAS443:3:76:708:184#0/1  
abaabaaaaaaaaaaaaaaaaa``\_a\_aaa`¥\_a``[¥`]  
@HWI-EAS443:3:76:745:1565#0/1  
CGCATTTCTTCAATTAACCACCTTATTTCTCAAATTTCT  
+HWI-EAS443:3:76:745:1565#0/1  
¥`\_X¥\_\_`b\_`¥a\_b^]b`bba^`a`^\_]b`bSLS`baba  
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TGTCGCTTTCAATCTGTGCCGATTTCTTCAATTAACCAC  
+HWI-EAS443:3:76:748:1457#0/1  
ab^a\_a\_]\_a`X`\_`aW`a\_`a]^`\_\_\_\_[WZ\_\_^X]^

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+HWI-EAS443:3:76:748:838#0/1  
aabb`bbabbaaaabba`aaaaaa`a`\_^`aaa¥aa`\_\_  
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+HWI-EAS443:3:76:751:1437#0/1  
aa`^aaaa^aa`a`\_a`aa`\_a\_\_`\_\_`\_^a\_\_^\_^\_  
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TGAGAATGGGAGACCTTCACTACCTCCAGAGCAGAAATGA  
+HWI-EAS443:3:76:776:1058#0/1  
aaa\_¥`a`a`\_`\_]aaaaaa\_]Z¥]]a^`\_`\_]\_¥  
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+HWI-EAS443:3:76:782:39#0/1  
Vbaab`bbaba`bbaaa]aba¥a[a^[\_^\_aaa]aQ¥  
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GCGGCACAGATTGAAAGCGACAGAGAATAGTTTGAACAA  
+HWI-EAS443:3:76:784:1524#0/1  
^\_abbabb]^abba\_a\_^]W]]a]Zaa\_\_\_^aa`]\_\_Paa  
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+HWI-EAS443:3:76:800:1066#0/1  
a`^]aaTab]aaaa` `[`baaaa[]a`aaa\_\_\_a` `` `a  
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+HWI-EAS443:3:76:801:1243#0/1  
ab]`a[Vabbbb`\_XRZaa^baaaa`V`[aa[a\_]a`[``  
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+HWI-EAS443:3:76:836:964#0/1  
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aaa]abbabaaa\_babaaab`a[aaaaaa\_aaaa`a^\_a\_  
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TGCCGCATTTCTTCAATTAACCACCTTATTTCCCTCAAATT  
+HWI-EAS443:3:76:885:219#0/1  
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+HWI-EAS443:3:76:909:379#0/1  
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+HWI-EAS443:3:76:982:1308#0/1  
aba]aaaa\_ab¥`^^ZTZ[NY\_\_`[¥VVX¥RZ`W\_\_UU[U  
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a`ba\_aaba\_[[abbVYXa`a^aa`\_`\_aa`b\_Za\_S^R\_  
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+HWI-EAS443:3:77:105:241#0/1  
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+HWI-EAS443:3:77:1063:654#0/1  
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+HWI-EAS443:3:77:1065:34#0/1  
^b`\_`^ZU^a\_0^aaa^P`a[`ba^]a\_`a\_S]a\_a\_Y[X  
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+HWI-EAS443:3:77:1074:1494#0/1  
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aaa\_R¥`aY[V^OPX\_\_[XPT]VH[\_\_\_\_]`[ZaVMGXZOY  
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@HWI-EAS443:3:77:1209:213#0/1  
TGAGAATGGGAGACCTTCACTACCTCCAGAGCAGAAATGA  
+HWI-EAS443:3:77:1209:213#0/1  
ababaabbbba]a\_\_\_aa`a]a`[RaX\_\_a\_\_¥]`]]^]a\_

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+HWI-EAS443:3:77:1244:1478#0/1  
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abbaaa]a^^^aaa¥a`aa`a`\_\_\_aaa]\_\_\_aa^T`]]]  
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+HWI-EAS443:3:77:1284:584#0/1  
¥\_X[b`ZWZbb¥\_]0\_\_\_^¥STQV^Z^]a¥]U\_X\_bb]T`  
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PX\_`aZ`^a``[S\_Za`^a]Z^]¥Za]]ab¥E¥S[aab`^  
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abaa`\_ba\_aaaa\_a^aaaaa`]^Z``]^X\_^U¥\_]Y]\_  
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a\_ba`baaabaaab^aaa\_aaaaa\_aa`aa``¥a`\_a¥\_  
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+HWI-EAS443:3:77:137:270#0/1  
aa`aa`abaaabaaa^abaaaaa`Xa\_a\_`a\_aa¥\_]\_\_\_  
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+HWI-EAS443:3:77:1399:768#0/1  
abb```ZM[ab]``¥[`R^`ZX\_[X^]b]aZ\_a¥\_¥aa  
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+HWI-EAS443:3:77:1418:624#0/1  
aba`aa]`aW]]][UUGS]\_¥bRb`YWaa\_\_L\_T\_TWaR^`  
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a¥]Y¥bba^abaaabaabZX\_¥`bb]b¥aSVbWaaaaV^L  
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+HWI-EAS443:3:77:1435:1990#0/1  
`[aaZaWXba`aababZa¥H[`^\_R\_bTY^] []a`a^Yb  
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+HWI-EAS443:3:77:1481:1310#0/1  
Ub¥X¥a]\_\_a[Y`YbYV`\_Ua]\_[[Sba]aT[aWa\_^\_\_a  
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+HWI-EAS443:3:77:1526:1688#0/1  
^aba`baaba\_Uaaab\_\_bbW\_\_b`^\_b\_Ub^bZIU[TY¥  
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+HWI-EAS443:3:77:159:319#0/1  
\_^[\_`Y\_\_`V\_\_\_\_¥\_\_¥¥¥¥¥^U[¥¥\_¥XQSUYWYVQVX  
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+HWI-EAS443:3:77:1657:1242#0/1  
aaabbbbaabbabaaa`b`aaba`a`aa^aa^aVab^a]`  
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+HWI-EAS443:3:77:1658:822#0/1  
`bba¥abab^bb`^¥aaaa\_ab\_a\_a]\_]`\_\_\_\_]a\_Sa^  
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a\_aaa\_aa][baa`aa^aaa\_a\_a`a`a\_\_`\_^VU`\_]¥¥

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+HWI-EAS443:3:81:833:242#0/1  
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abb[`^aabaa[Y[aaa^X]\_`\_^`^[\_PaZ^`\_]`]  
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+HWI-EAS443:3:81:878:1384#0/1  
][¥aa\_^Y`a`^`^V]\_aa^aaa\_\_a\_\_`a\_¥^¥a`ZQ¥\_  
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]\_\_SaX]b\_Zaa```aba``X`^¥X`X^a`^^UVb^^]``  
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`b`\_Y\_]aYb][[^aa¥UZZ\_\_¥Z`X[[`\_b^`a\_\_V\_a^  
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a`\_a\_\_aaa`\_a\_\_\_`\_aa\_]a\_\_]``aa^]a\_\_`\_`[]  
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`YRU\_\_¥X^^\_`¥UZTY\_^^)`\_¥VXZ^]a``[\_[a``]\_  
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aaabaa]aa``[^`aaa`bbaZb]aaa\_a`aaa\_a\_\_^aa\_  
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+HWI-EAS443:3:82:153:1757#0/1  
a\_Ua[RRW^aYYZ\_] ^W[^]UR^^VXWaUaW]Z^Y]U^]  
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]¥\_¥¥WWW`\_`\_]`\_Z¥^^QZYR^)``][\_\_S^]]NXT\_[

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Vb`\_b[abaaa]aaa¥aa\_]^bb`Za\_]\_a`ba]]¥]^a`  
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¥Xb`ba\_\_`b`a`b]Ua]]aaa]`\_\_aVaab\_M`a[``  
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+HWI-EAS443:3:82:207:1101#0/1  
aa\_`a^aa[aaaa`a`a`a`\_`a`\_]Q\_\_\_^]X]\_\_\_\_¥  
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+HWI-EAS443:3:82:240:951#0/1  
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aaa`]aaaaaa`¥`a`\_S¥T\_\_^]\_\_a`\_a`\_`\_[Z`^\_  
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+HWI-EAS443:3:82:452:799#0/1  
aba`ZZ\_ab][\_`aa\_aa]`¥` ``Z`a\_\_\_\_`a\_a\_[^¥]W  
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+HWI-EAS443:3:82:455:320#0/1  
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a`¥`aa]\_^WWa]Za`a` `Y^a`a\_a`a` `^`]a\_\_`\_\_` ``  
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+HWI-EAS443:3:82:787:1033#0/1  
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a¥a`a\_a\_a\_` `\_\_\_\_^`a\_^`a`\_^`a\_^\_\_aa]^\_Z\_^\_  
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+HWI-EAS443:3:82:811:1816#0/1  
`UT¥SQ`^`\_\_aaaa`V[^S^P¥\_a\_a]^[]aaX^VZ`[\_\_\_\_  
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`aaaab`¥\_b``\_abaaa`a\_\_a`a`aa```\_aYaa```]a  
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@HWI-EAS443:3:83:1477:1225#0/1  
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aaa]a`^aaaa\_aRa]\_\_aaXaaaa\_a\_``Xa\_^V\_^`\_\_  
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+HWI-EAS443:3:83:1492:263#0/1  
abb\_b\_baa`a\_a\_\_\_aa]`Z\_\_U]aOW\_\_^`^aXY^^\_  
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+HWI-EAS443:3:83:168:815#0/1  
¥\_[Q]^¥\_a^¥W\_^WXUa]aZ`T`\_]U]UZU¥T\_ZY^^  
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+HWI-EAS443:3:83:1782:177#0/1  
aba^Z]baa]`\_\_a`aaUP¥]a\_U[``\_\_`^`^`RZ```  
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+HWI-EAS443:3:83:269:964#0/1  
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+HWI-EAS443:3:83:366:195#0/1  
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a¥^^` `` [aa`Z[`]a`a]W¥]^Z]] [¥T]]¥W[ZV]^^[  
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\_Y`]P\_`b¥b¥[Z`^¥^baba`V\_`a]]¥¥^b`ba`^^\_b  
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^`a\_^)`a`^`^`^`a\_\_\_\_]a``\_a^`\_¥\_a]^¥Y¥[V¥\_¥  
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+HWI-EAS443:3:84:1063:547#0/1  
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aaa]`^aaa\_a`aX^Z^\_Q]\_a¥^\_\_[\_^a^`¥[R[\_W¥  
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abaaaa`^ba`aaaaaa`a\_a```aaa\_a]\_\_\_\_`\_\_\_\_  
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aabaabaa`aaaaaaaabaaaa\_aaaa\_`aaaa\_a`^`  
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+HWI-EAS443:3:84:219:208#0/1  
aaa`a\_aaa\_a\_\_\_\_`aa`\_\_`]\_```\_`\_`\_`^`^\_]`^`^`

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Z\_¥X^`][`Za]a`Y\_]Zabb\_^YFY^```Z]RJZZ]^X]  
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`aa\_¥`R\_a¥WVZ]aY\_Wa][`\_ZaZ\_] [Q`X\_W` [P`a^  
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a]\_a[a^\_\_`\_^]a`\_`\_^\_\_^]\_\_H[^\_¥\_\_U\_V`X  
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+HWI-EAS443:3:84:283:764#0/1  
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+HWI-EAS443:3:84:32:1248#0/1  
a\_baaa\_aba^ab\_aJaaaaZ``a`aa`]]``\_a`^`\_`X  
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+HWI-EAS443:3:84:359:1944#0/1  
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+HWI-EAS443:3:84:391:1822#0/1  
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Z\_a`a`aaaa`\_^`^a^a\_a`a`aba`\_a\_a`^`^`¥[aa  
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¥Vab`^a^ba`Z]aZ`Z]T^\_a[]YZZW`\_a\_a^^a^]¥  
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a\_aaa``\_a`¥\_^]\_]`\_\_a`\_a`^^`\_^^```]\_XU`^^  
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aaa¥[\_`\_`aab^`a^]a\_^`aa`a¥¥[\_`\_`a¥^`^\_SO[\_`  
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a^b[aa^ab^a¥aa`b\_`aa`\_]`ZY[``\_`V\_a]Z]V\_^  
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[^^abaa\_a^^aa]\_bababaab`aba\_`baaaaa\_aYa  
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+HWI-EAS443:3:85:47:1556#0/1  
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a`a\_aabaaaaaaaaaaaaabaa```a\_\_\_\_\_a```a  
@HWI-EAS443:3:85:572:612#0/1  
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a^`Z`a```\_`\_W\_`a`[\_`\_W\_`a`^a`\_^]`^]X  
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@HWI-EAS443:3:85:903:263#0/1  
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aa[a`aa\_a`aa`a^`aa`\_a^^^X`^`\_^`\_`^X^`]  
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a`abbabb`YW\_aabab\_aaaa\_^\_H\_[a``a^\_\_a\_\_`R  
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\_a]^XaUZ`]aa`aa`baaaa¥[\_\_a¥TZa`\_]a]¥\_`Qa  
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\_bZ]W\_a^a]^`Z^\_\_\_][a]\_XTN\_\_\_a]aU\_\_Z\_]``¥  
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a`aab)``baab\_babbb^a[a`\_aa^a\_\_^¥a`^`^`a\_  
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\_aaabab\_aaaaZ````^````\_`[\_V``\_V[W\_`TUR^Y¥  
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a)`\_b`aa`aa]H]aaaaZWV^[aa\_]`]]\_`\_^Z^^Y\_G  
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aa\_aY\_] [Y^V] [Z\_\_`\_\_^^R^^^WZ^^` [^^WWW[^Y

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a\_`baba`abaa`a^baaaa\_`\_`^`\_aaaaa^^\_a]`a`  
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^`\_a\_^[aY¥¥XSbb\_`aa`ab]\_aa]a`aaaa`aa]a`a  
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¥`¥¥a^aaa¥a\_]¥`¥a^ab\_\_a`Yaa[\_abaa¥¥aaab  
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\_U`abaSaaa\_a^b```aaa\_aaaaaaaa`aa`\_^^Y)`\_`  
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aaa`aa\_aa\_a^\_a^a\_¥a`aaW\_^]\_^\_^^\_Y^]¥]]  
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a¥¥abab]ba^\_Z^X`aaaa[a\_`\_\_V^`XaY\_\_[^`\_`]  
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\_]¥¥Y¥WZaP¥[aTa][TP]aa[J[^ZRX[^VVUS]\_0]I  
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+HWI-EAS443:3:86:694:1623#0/1  
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OYa`^b¥`\_^`W`¥bbbK¥^^\_a[T`abY`^PI\_ba\_JQ  
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+HWI-EAS443:3:87:1452:1855#0/1  
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+HWI-EAS443:3:87:1477:1042#0/1  
^aabba\_Zab\_^`a\_¥]]Z`W^a\_\_W]^`a` [Ya\_]W\_^`  
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+HWI-EAS443:3:87:572:1326#0/1  
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`^`\_XX\_`^`][abP\_¥X\_X`S[``a`Y[^¥^X]VX\_[T  
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a¥` [bba`Xa`\_`\_`\_X\_\_a^\_\_a]]`\_\_\_\_`\_`\_\_\_\_U^^¥  
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`\_W`^`^`^aa`^]]¥`]]\_ZaXTP[YV``¥¥VY`^[Y¥^^

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a¥X¥a^^`[^`\_`VU\_a`\_P]\_]\_\_¥`\_\_\_\_\_¥[Ua¥\_  
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¥`aaaaba`aba`ab\_bbaabaaaa\_ababaab``a```\_  
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``\_T^a`aa[\_\_\_\_\_`\_Sa\_^^`¥\_¥¥`]\_^Z[¥W¥W¥SG  
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aY`a[U`a]\_\_`a\_\_aZO[^\_¥^¥\_\_\_\_^^N^[¥^¥\_`^  
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aa`a^aaa`aaa`aaa``\_a`\_``\_````^`\_``\_``\_`  
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a\_XR`Z]aba`a]aYa]b¥b]aaa]\_¥U\_`a\_`a``Ya\_\_  
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a]`````abbaaaa[¥a^\_a\_[`^]\_aTR]a\_\_\_\_`[^\_\_\_\_a[  
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+HWI-EAS443:3:91:1659:1493#0/1  
^baaTW`b\_[b[[]ab\_`^b\_\_¥\_\_¥[Q¥aZG\_QY]^Y  
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\_a``]W[aaVUYXWY¥``\_^][``\_]\_Za]]^aVS^^]  
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+HWI-EAS443:3:91:50:276#0/1  
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+HWI-EAS443:3:91:650:1573#0/1  
a`^^¥aab¥a\_XYaZ\_\_`U^X\_[`a^a`aaY` `a`Za\_^\_  
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+HWI-EAS443:3:91:654:608#0/1  
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XO¥_V]`bY`a^aX`aa¥S^Z]`a_^^ab]a¥WZ^^`` [
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aba`abaabaababaaaaaaaaaaaaa_b```a`aaa_aa
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_bbaa¥``[baa`_a]a_aaa_a`____]_`a_V^____]_]
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a_^^aa[SZaa^^`_a`__[¥_Z]a_]`_a[]_¥_a_]_
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+HWI-EAS443:3:91:897:1623#0/1
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aa``a`a`a`_`a`_`_]`____`][^_aZ_____]^^^
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T_bb_babbbb[aaaQZ`aaaa]`bba`aaa_``a`_```
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aa`a_abS`^aab]b_¥b[a]a__b]a__Z_`_¥]Y`^]
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+HWI-EAS443:3:92:1368:1270#0/1
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a`¥aaaaaa]baaaabaaa`_`_]aa`aaa^Wa` `__` `_
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+HWI-EAS443:3:92:1658:383#0/1
]_Y^URY`_`YU`[Ia]UW`PF_aY_Ja]N¥_^Z^LFHa`
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aa_baaabaa¥¥_]a^Z^a_a]Y_^]`a__Z]a^[_`_`_
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```a\_aaba\_`b\_[Yaa\_a``^]a`^\_a`ZZa\_\_^\_`^  
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+HWI-EAS443:3:92:259:204#0/1  
¥`bb\_bbbbbabbbbbbb¥bb\_bb`abbbb`bababbbb^  
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aa`^a`aabYa\_Z]^a^a]^\_\_a` ``¥a\_]`T¥M]^`^\_  
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Z\_]N^\_\_`X^[^a``[^ba^^`ba¥bb`Y^^I¥S``aa[a  
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a\_``¥¥a`^`\_`^`Z]^a^X]\_\_^`\_`\_`[W^`\_¥WS^Y\_  
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+HWI-EAS443:3:93:703:978#0/1  
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+HWI-EAS443:3:93:760:1629#0/1  
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+HWI-EAS443:3:93:848:1193#0/1  
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+HWI-EAS443:3:93:855:1458#0/1  
`T`Z[ab^ba``aa\_a\_\_\_\_\_][VV\_U[]^\_]¥[GZ^]  
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+HWI-EAS443:3:93:998:1799#0/1  
¥¥\_[^U[¥\_H\_b^bbVV`ba\_\_^`\_`bababaab\_a\_baYa  
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+HWI-EAS443:3:94:1064:244#0/1  
`\_b`\_a^a`Z]`\_a\_a\_aa^a[``a`\_Za^QQZZTZ¥¥[S



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T\_¥][WWZa`Z\_]^\_W¥]a`^\_SQX\_U¥ZSZ\_]\_¥Z`ZH  
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+HWI-EAS443:3:94:111:1134#0/1  
ab`ba]\_ba`a``aa\_\_`aa\_aa`a[a`\_a\_\_\_\_`a]\_`\_]  
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+HWI-EAS443:3:94:1157:1884#0/1  
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T\_ba¥bb`aa`YQWb¥T^\_W¥b^RJVFZ¥a¥PW]PI]]a  
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+HWI-EAS443:3:94:1450:607#0/1  
`^X\_\_ab\_a\_aa\_]`^`\_a^^a\_`Y^^V`XX^YYYYR0]YX  
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+HWI-EAS443:3:94:1587:576#0/1  
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+HWI-EAS443:3:94:1595:322#0/1  
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+HWI-EAS443:3:94:28:737#0/1  
`\_b^`baa\_`aaa`]``\_`^`^\_a^`\_\_^]\_^Y^V^U\_`YU

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a\_`[XX`XY`a\_VT¥\_\_^W`^`^`\_\_\_\_^^`U\_]`^X¥`]Y  
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\_\_`^a\_Z]¥\_`^ba\_`bbaaaabaaaa`aaaaWO\_aa\_\_a  
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a\_J¥^`XX^[^¥Y\_`a^`Y`\_`\_^SY]\_]\_]\_[OZ[`  
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aabaa]^`V`a]XX]X`Q^`a][X``]Q``Z^]\_`¥L]  
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\_[bbbaaZa`ba]ab`abbaaaba`````aX^Y^^]\_  
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`WTH^Z]\_N\_W[^Y^YZ^`a^YO[a`[``Y\_] [XPWDX\_  
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¥R]aaa`aa`a`\_a`\_`a`\_`aV`]\_\_]^`^\_]`]]\_`^  
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+HWI-EAS443:3:94:607:510#0/1  
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+HWI-EAS443:3:94:658:408#0/1  
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+HWI-EAS443:3:94:855:1559#0/1  
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+HWI-EAS443:3:94:856:603#0/1  
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N¥`Y`a\_\_WXaa\_RQ`[]0]\_¥`a¥a^\_\_b` `[R[b¥¥S]  
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+HWI-EAS443:3:95:1047:881#0/1  
][¥^]\_Q¥R\_b^XZ\_¥]W¥]¥V^a^S[¥a^HNU`a`¥TZ]  
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+HWI-EAS443:3:95:1102:566#0/1  
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ab^\_Z\_aaa]\_a]SZaSaa`aXLVa\_a\_a\_\_a`[N[aUZU  
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+HWI-EAS443:3:95:1254:305#0/1  
ab\_a`\_baab`b`]^a^\_aUaa]]`Z¥`a\_Y]]a][^`\_-[  
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ab` `^MZaa`bb\_Z\_bb]X`]`bb^b`]`bbb\_aabbbbaa^R  
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¥a\_T¥V^a^¥`R]a¥\_ZYa`\_¥ZY`^W^\_baba¥^aa^a`  
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a]X¥^a`a\_] [``aU`a¥\_\_\_]\_\_Y`\_\_^\_¥^\_]\_`]^WG  
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¥\_S¥^ab¥¥ba\_a`aaaZ¥`abbbba`a^aWa`^Q]  
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aa\_\_¥aa]a^aa\_a\_\_aa``\_a\_Y^\_^\_\_a`^\_^XY]a\_  
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+HWI-EAS443:3:96:1326:912#0/1  
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a\_aa^aaaaa\_aaaa\_aaaa^^`V`]¥\_\_^Y`\_`^\_V]Q]`  
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+HWI-EAS443:3:96:430:2027#0/1  
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aa]]``aaGaaa`\_\_U¥aa]``^`\_`^¥`^^aY```0\_\_V`Z  
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+HWI-EAS443:3:96:467:654#0/1  
aaU¥\_aa`]aa`]a[`aaaa\_`^[Z^`^`^^\_YV^[W[]  
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+HWI-EAS443:3:96:46:493#0/1  
abaZa^abab\_abab\_\_aaa\_`\_`YV]\_\_\_\_Y\_aRWX\_]Y[  
@HWI-EAS443:3:96:506:1147#0/1  
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+HWI-EAS443:3:96:506:1147#0/1  
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+HWI-EAS443:3:96:510:297#0/1  
¥R]^Z\_Yaba\_¥¥aaa]ba]¥^]Za`abaaRQ¥`^\_\_\_\_[Y  
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+HWI-EAS443:3:96:517:1964#0/1  
a`a`aaa]b```Saaa\_^\_a]aXaa`\_\_^PPY\_a\_`[\_\_\_\_]  
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abaaZ]^`aaN`XWaz\_aX\_Y¥\_aVRY\_¥VSU`^XW^ZFY^  
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+HWI-EAS443:3:96:555:750#0/1  
^a¥]]aaUT\_VaaXb\_\_aa`YV`^ZP`]^\_X`V^¥^¥`\_  
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+HWI-EAS443:3:96:772:1099#0/1  
ab]^a\_abab\_baaaa^a^`a\_aa]^`^`a¥ba`]^`^a^  
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+HWI-EAS443:3:96:792:1109#0/1  
]a`a`b`b]b]\_`a`aabb\_Xaaa\_a^^`aa\_`a¥b\_aZa  
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+HWI-EAS443:3:96:803:1515#0/1  
]\_U]H[`\_^]`a]^¥[^`a\_]a][\_][¥Z¥Z`a````\_a  
@HWI-EAS443:3:96:839:1770#0/1  
GATGAGAATGGGAGACCTTCACTACCTCCAGAGCAGAAAT  
+HWI-EAS443:3:96:839:1770#0/1  
^Zababaaa\_baZ\_aa`\_a`baaa\_\_Z``\_a¥\_\_^\_a\_`\_  
@HWI-EAS443:3:96:872:1613#0/1  
GCTGTTTCGATATCGAGGCCAAGGGTGTTCCTCTTCCTT  
+HWI-EAS443:3:96:872:1613#0/1  
`aaa^a`aaa`a^^````\_a`^^^X`^`[^`\_]\_aY^]^  
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+HWI-EAS443:3:96:880:827#0/1  
`aaa\_aaa\_X[`\_aUaa^a\_`a`a`a\_\_\_\_\_`\_]0^\_]Sa  
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+HWI-EAS443:3:96:892:1325#0/1  
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a`\_a[\_aaa`\_a^aa]\_`[\_S[aa\_X`]U\_0`\_\_^[PTYU  
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^¥\_aW]^aa``]Rab[Y]NR¥aIaa`]^aKI^WYWZ\_``  
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+HWI-EAS443:3:96:989:1352#0/1  
aaaa`a\_aa`\_U\_aa\_a`a```\_`W\_aY¥\_¥\_\_\_^T\_\_\_W  
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a^aa^¥aab`aa^aaaa\_W^a\_Va`\_aaaYXa```^\_a^a  
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+HWI-EAS443:3:96:99:1719#0/1  
aaaa`[abbabaabbabba`aaaaaaY^¥a```a`aa\_a  
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+HWI-EAS443:3:97:1014:1480#0/1  
aa\_aaa`aba\_]`a`¥a\_[aaa`\_`a[``aTaZ\_dW[¥V¥  
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+HWI-EAS443:3:97:1018:1679#0/1  
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@HWI-EAS443:3:97:1031:242#0/1  
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+HWI-EAS443:3:97:1031:242#0/1  
\_bZJ\_a`b\_\_a]ba]¥abZ^aWa`X\_`V`X^\_]RaYU\_`  
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+HWI-EAS443:3:97:105:464#0/1  
a^aa]aa^a¥VX¥\_\_`a[[]`¥`\_ZX^`^`]]\_ZRRX[Y  
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+HWI-EAS443:3:97:1098:757#0/1  
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+HWI-EAS443:3:97:109:1008#0/1  
a¥Ua¥^Uaa`T[R]`\_W]\_\_^Q^\_\_^U]XRNXUUUX\_ZWX  
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+HWI-EAS443:3:97:122:244#0/1  
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+HWI-EAS443:3:97:1522:1364#0/1  
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+HWI-EAS443:3:97:1616:648#0/1  
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+HWI-EAS443:3:97:163:444#0/1  
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+HWI-EAS443:3:97:1714:1828#0/1  
a\_a`\_aaa]\_]a\_]\_Ua^aaX^Uab]X¥W`^^W\_]X^^^  
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¥`bb`bbab]abbbabbbbaabb\_\_bb\_\_aaa\_^b¥Xaaa  
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abY^¥bb[S\_\_\_`[aaV[P¥^Ya`^aa\_¥aa^SU\_UMO\_ba  
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a\_¥SSaab```\_¥[\_aaa[J]^`Ra`aa\_a`^a`a`X`a  
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a^X^aab^baa`aaa`]`a]\_aaS¥^^`a^a^Z[W`\_^`  
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````¥¥ba\_a[^\_b\_]ab¥aba¥]]R`a\_aaa]``R[T`  
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+HWI-EAS443:3:97:619:384#0/1
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`^^aaZba`aXV]bba_a_a`¥0[Z[]¥a]a^aa^WW`^
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+HWI-EAS443:3:97:681:583#0/1
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CTTTGGCATATCCGCAAGCGATTTGCAGACAATGGATTGG
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+HWI-EAS443:3:97:715:665#0/1
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+HWI-EAS443:3:97:858:636#0/1
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U_`_`_`W^`¥aa`^^b^_]a_b`U^b``aa_¥Z]_b`
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+HWI-EAS443:3:99:324:983#0/1
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¥[\_^aba`a`aa`aaaaaa\_a`^a`^\_ab]aaa`a`\_ [a  
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a`a\_`a`a^aa]aa]Yaa¥`X\_]\_]`Y\_\_\_\_\_^\_a\_\_R^R  
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V¥`\_¥¥`b[\_\_\_aWZWaa`[]]aa[I\_a^a\_baa\_]Z`aU  
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+HWI-EAS443:3:9:377:376#0/1  
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\_W]¥`a^\_\_\_\_a^`^^^^`^\_W\_]\_UZ^Z]\_W[]S]Z^W  
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¥\_aaa^\_¥\_`\_^`b^\_a]aab[[^a`\_V`XRT`^¥^\_Y[Y  
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abab[^`abb\_a¥HY^`\_\_\_\_`\_[U`TV^aX\_W]`[V[^`^`  
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+HWI-EAS443:3:36:765:244#0/1  
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+HWI-EAS443:3:48:1058:1123#0/1  
aa¥`ab^G`Xaaa`bbbabb]`abaa`^Ybba¥\_\_QV`  
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+HWI-EAS443:3:5:1391:1105#0/1  
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+HWI-EAS443:3:63:1114:1338#0/1  
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+HWI-EAS443:3:68:1124:1662#0/1  
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+HWI-EAS443:3:69:1455:778#0/1  
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+HWI-EAS443:3:76:672:1497#0/1  
¥bJb]H^\_ba[babbbbbbb\_bb`Zaab`\_babbaa\_`S]b  
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+HWI-EAS443:3:95:891:1372#0/1  
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+HWI-EAS443:3:49:40:724#0/1  
[¥F¥b`bbbbbbbbba\_\_`a`\_`baa\_\_ba\_a`bb\_\_`^`b  
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+HWI-EAS443:3:50:1279:908#0/1  
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+HWI-EAS443:3:53:757:148#0/1  
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+HWI-EAS443:3:46:1623:904#0/1  
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a\_U¥b`\_aTbaSbaab`baaaaa^`^\_aaa[aaaaaa[aa  
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+HWI-EAS443:3:50:1439:719#0/1  
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+HWI-EAS443:3:89:1037:1353#0/1  
Z\_a¥``]aaK``¥a`ba`aba\_]aZa]\_b``baabbbab]\_  
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+HWI-EAS443:3:93:153:1315#0/1  
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+HWI-EAS443:3:12:310:486#0/1  
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+HWI-EAS443:3:13:1546:1077#0/1  
a^][a]a]aZ`]`a`aXHY[XW`¥^aaa`a`ZX¥XDU`T^  
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+HWI-EAS443:3:14:377:1326#0/1  
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+HWI-EAS443:3:14:79:1466#0/1  
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+HWI-EAS443:3:16:448:644#0/1  
YVbaR¥S`a`a`aa[aa`a`\_¥ZY`Xa\_```[^WPUW\_¥X^  
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+HWI-EAS443:3:18:1335:1386#0/1  
`Ua``Y¥\_\_ab`aab`\_aab\_¥a^a¥a[Q\_aaa]a\_`¥]\_  
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+HWI-EAS443:3:2:1125:628#0/1  
aaaaaa\_`a`a\_a`V`a`aaa\_``^a]\_a`a\_]a\_\_\_^  
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+HWI-EAS443:3:31:133:319#0/1  
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aab^aabaa\_aa\_`aaa`\_a`a`^^Y`a\_]``\_^^\_^^^  
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a^``\_V\_^a\_]aY]^aX\_^Z^`U¥ZWZ]VYVTV¥Y]] [Z  
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V`¥UYbZYZRbbOY^^`a\_aZaa\_a^P]]]X¥0\_Qa^\_T  
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+HWI-EAS443:3:39:490:1573#0/1  
a\_W`G\_aZ`ab^Z^aa`aSU\_]baaa\_U`YY````\_a\_Y\_\_  
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+HWI-EAS443:3:3:262:1540#0/1  
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`\_I¥a\_ba]babababaa`UbbaU`ba`abb\_bb\_\_bb`¥  
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+HWI-EAS443:3:42:771:684#0/1  
\_][^aabbabbaaba`bbbbbbbaababbabbbbbb\_`  
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+HWI-EAS443:3:44:258:51#0/1  
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+HWI-EAS443:3:44:472:1416#0/1  
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aY`b`¥TYWa`W¥][`aa]SNDUaZ\_``][Z`[[[]]SR  
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+HWI-EAS443:3:48:1017:1125#0/1  
abbaaa`\_ab\_Ya[``]\_]a\_aaa\_a\_^a^^a\_a`\_\_\_\_\_  
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+HWI-EAS443:3:48:1098:1110#0/1  
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+HWI-EAS443:3:48:1249:475#0/1  
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+HWI-EAS443:3:4:1112:399#0/1  
]OWZF^aXa`^`a]a`a`[V¥][V¥Y]RXX\_\_^[W¥¥¥

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+HWI-EAS443:3:53:417:155#0/1  
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aaa`a``aaba\_``\_\_aaY``\_^`¥^¥``\_X^Z[\_VS[K  
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+HWI-EAS443:3:57:462:39#0/1  
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+HWI-EAS443:3:57:735:1209#0/1  
aY]a0aa0bbaa`b\_a\_aaVaV\_Y`````^aba^aa````\_  
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abaaaaaa][abaa`^`\_b`\_^a^a\_a\_^\_\_\_\_a`W¥\_aa\_  
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+HWI-EAS443:3:60:1180:464#0/1  
\_X\_aQaaVaa\_a`X^L^a`\_[¥Y¥^]\_]`\_]S¥^W¥^T  
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@HWI-EAS443:3:74:344:689#0/1  
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+HWI-EAS443:3:74:374:721#0/1  
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+HWI-EAS443:3:79:231:1319#0/1  
``^`[^`^\_a`\_aaZXaa`aZ^Z]]^0^``\_`^aa\_\_aa\_¥`  
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`¥U¥][a``]\_`bZW`^^^`^`\_`[S[J¥ZZ\_Q]]^XYTY^  
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+HWI-EAS443:3:80:1097:594#0/1  
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@HWI-EAS443:3:80:924:81#0/1  
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+HWI-EAS443:3:80:924:81#0/1  
aaUbb`aab`b`aa````Za]]`\_\_a`a[a`[a\_R]XX`\_  
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+HWI-EAS443:3:82:153:1887#0/1  
^T\_a^R`aa`\_`a\_aa`\_a\_\_]\_\_^W^^`[V¥\_¥\_`¥XZ]  
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+HWI-EAS443:3:83:421:1883#0/1  
abb`bbbaabaabbaa`^a^aaa\_aa\_¥Yaa\_\_`aa`\_\_`  
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+HWI-EAS443:3:86:1420:1628#0/1  
H\_a^`^abb^``abaaba`aa`ab\_Xb¥aabab`a`\_`\_\_^  
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+HWI-EAS443:3:87:198:1730#0/1  
a`baa`^`R¥T`baa\_aI¥SY\_aNU\_`^`aY`]\_a`ZU¥^  
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GACCCATATATAGAAGAATAGACGGAAAGTGGATGAGAGA  
+HWI-EAS443:3:88:1193:1114#0/1  
a\_]SWX^\_aaaZSR[TXW\_X]`\_\_YYZ^]FZ`]``¥`QZ]  
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+HWI-EAS443:3:89:173:1915#0/1  
aa\_¥\_ba\_]\_\_a`¥`ZP\_]U`^W¥a^\_^`^^¥ZV[R^Z  
@HWI-EAS443:3:8:808:1762#0/1  
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+HWI-EAS443:3:8:808:1762#0/1  
^\_aaaaX`a\_aaY\_a`a¥`a^a`\_`\_^\_AY^\_AYY^^`\_  
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+HWI-EAS443:3:92:545:273#0/1  
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+HWI-EAS443:3:93:695:604#0/1  
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[]a\_[LZ]L^bbbabbbbababa`babbabb`abbbbbb\_b  
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+HWI-EAS443:3:97:641:45#0/1  
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+HWI-EAS443:3:98:486:1351#0/1  
aa`aa]aab`\_aaa¥W\_\_`aa`aaZG]a`a````\_]\_\_\_\_[  
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+HWI-EAS443:3:27:666:1792#0/1  
a`\_^a]\_aa`¥a`aa\_Y¥\_a\_\_`aa`\_¥`¥\_^YW`W^¥

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+HWI-EAS443:3:78:1074:1422#0/1  
K¥X¥\_VXZ\_VZZMXX`a]M[a]YO\_^UFJQ`[Y\_FYa¥PV  
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+HWI-EAS443:3:96:1561:220#0/1  
ab\_bbbbX]aaabbbb]abQ`\_abaa\_aRZ¥`aaaYb\_^`  
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+HWI-EAS443:3:85:1395:566#0/1  
aaaS\_^aa[a\_WDR\_a`^`\_X`a\_^^¥¥\_\_\_\_\_^]\_a\_]`  
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`ab¥bbb[`a\_aaab\_\_aaaYDYaaa`baab`ba\_W`0aa  
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aabba\_abb]aa]`a[aa¥[`\_a\_\_YTD¥aaX\_\_\_\_\_Y\_T  
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aa`^[a\_RR\_b`^a]\_S^aaa[aa^`aaZW][¥¥`X¥[]\_`  
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aaa`¥\_]a`^a\_\_a`\_[\_^`^^`^W\_Y^^]^\_Z\_\_^  
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\_aabababaaaa`¥\_aaaaZa`W\_a`\_\_`¥¥¥U`Z`^W  
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+HWI-EAS443:3:87:712:224#0/1  
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+HWI-EAS443:3:13:1142:1572#0/1  
a\_\_U^X]T`\_]a^\_a`aaa¥W`\_a`\_UJN``a`[\_`X^R`  
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+HWI-EAS443:3:18:1346:335#0/1  
a^\_aM`a`¥`¥^]¥V^W`YY^YVYVZ[X]^Y]]WSV]]  
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aaaa\_a\_a\_\_a`\_[¥`aY\_]\_^X¥\_\_`X¥^X\_]`\_XU][  
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]b^`a¥a^]]`YZ\_]`QR^`T`X¥N^^\_Y\_¥PZ``G`]  
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aa`aa`aa^a`aa\_a\_]`a\_W^^\_]^W`Z]XX¥^^X^ZV  
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+HWI-EAS443:3:23:439:1233#0/1  
^Ta\_aaaa^¥aX^\_] ^¥a`\_\_`^\_\_]\_\_a\_^X[`\_\_`\_  
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+HWI-EAS443:3:24:1717:1455#0/1  
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+HWI-EAS443:3:26:232:818#0/1  
aa¥`aa`aZ`a\_\_aa\_a`a]\_X\_\_\_\_\_Y`U\_X]X\_R\_X  
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+HWI-EAS443:3:27:872:1067#0/1  
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+HWI-EAS443:3:28:432:1477#0/1  
¥\_\_Z\_aa\_a\_¥Z`XVaV^X\_Q]\_\_QKW^XWYZ¥P]WQOWS  
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aabbaa\_a\_bbbabb]baa`aa`aaa``a`\_a^aaa`````  
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+HWI-EAS443:3:32:1022:848#0/1  
aaaaabbbbaa`aaab`bXaaaa`^^`\_aaa\_Y`````  
@HWI-EAS443:3:33:145:1439#0/1  
CTCCAATACCCTGGA ACTAAGAAGCAGATACTGGGCCATA  
+HWI-EAS443:3:33:145:1439#0/1  
a`bb^T\_Wabb]`\_`aba¥SVW^\_aa]a¥Z`¥[S^`a\_\_\_  
@HWI-EAS443:3:34:1301:545#0/1  
TCTGCTTCTTAGTTCCAGGGTATTGGAGTCCATGGTTTCC  
+HWI-EAS443:3:34:1301:545#0/1  
a\_aa\_aaaaaaaa`aa`Xaaa`V][``\_]\_XWW]WX  
@HWI-EAS443:3:35:512:490#0/1  
TGGCCCAGTATCTGCTTCTTAGTTCCAGGGTATTGGAGTC  
+HWI-EAS443:3:35:512:490#0/1  
aabbb]a`bbbbaaaaaaY]]aaaY]a`U¥```¥¥\_V`



@HWI-EAS443:3:36:1634:1139#0/1  
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+HWI-EAS443:3:36:1634:1139#0/1  
^U`]Waa¥\_a\_`QSa\_`a]\_`^YVTVSTTQ[UX^\_V^SJS  
@HWI-EAS443:3:36:561:1762#0/1  
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+HWI-EAS443:3:36:561:1762#0/1  
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@HWI-EAS443:3:37:570:1147#0/1  
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+HWI-EAS443:3:37:570:1147#0/1  
`bbbb[b`\_baY\_b^Ya\_ba\_¥bbaba`\_GX``¥[\_Y¥\_^  
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+HWI-EAS443:3:38:1295:1537#0/1  
aba^^^GY^^WYLOYYYZPVOY`YX¥]]NZLRRQPQ[[^T  
@HWI-EAS443:3:38:1324:152#0/1  
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+HWI-EAS443:3:38:1324:152#0/1  
`TU\_`aa\_`X\_\_\_\_\_`\_\_`]\_`Y\_W]\_YOZURWNUZV^VTV  
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abba¥^`a`ab\_\_¥`¥\_ZXR`a`\_\_]b\_[RVTL¥NZ]Y]S  
@HWI-EAS443:3:39:1244:569#0/1  
GGCCAGTATCTGCTTCTTAGTTCCAGGGTATTGGAGTCCA  
+HWI-EAS443:3:39:1244:569#0/1  
abaaZZYa^a`b`\_a\_aY[`\_^¥Z\_Z`\_Y\_V]^`^``ZYZU  
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+HWI-EAS443:3:39:135:388#0/1  
[^a^a^Tabb`a`bXa`aa^a``\_¥T¥[Ra\_^UT\_H^]``Z  
@HWI-EAS443:3:39:223:1297#0/1  
CTGGAAGTAAAGCAGATACTGGGCCATAAGGACCAGGA  
+HWI-EAS443:3:39:223:1297#0/1  
a`a¥Ua\_\_a[a[`]\_¥`\_\_\_\_\_^^^`Xa`\_`ZZ^\_^]\_YY  
@HWI-EAS443:3:3:1450:1273#0/1  
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+HWI-EAS443:3:3:1450:1273#0/1  
abbbbbbaabbaa`aaa`ba`aaaa`aaaQ^ba^a]a`\_a  
@HWI-EAS443:3:40:262:1255#0/1  
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+HWI-EAS443:3:40:262:1255#0/1  
\_abbaaYab`[abababba`\_ab\_]P\_Ra``¥\_XQKZ^a  
@HWI-EAS443:3:40:280:1362#0/1  
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+HWI-EAS443:3:40:280:1362#0/1  
`a`Y]¥Wa]`X^[^\_`\_¥Y¥Y]a\_P`X^H¥PPTTGQOY]]  
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@HWI-EAS443:3:42:1538:1597#0/1  
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+HWI-EAS443:3:42:1538:1597#0/1  
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+HWI-EAS443:3:42:453:276#0/1  
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abaaba`aa`a^aJaaab^`]aa\_\_a``[a\_`^a`a\_a[a  
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+HWI-EAS443:3:43:1485:329#0/1  
]bb¥\_aa\_Z\_ZVXU¥aabU`Zaa^]aSX[^```aYJT][  
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+HWI-EAS443:3:43:319:886#0/1  
\_¥R¥b]a`YW]WWUaZYUUXaTZ`X]aX```\_\_ZRYWR]a[  
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+HWI-EAS443:3:44:824:480#0/1  
aa`abaJa`]Y]aa`Y\_WbaYTVZ]b^U`TVaaYaXaXa\_  
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+HWI-EAS443:3:44:843:985#0/1  
ababa`aaab\_aa``aaa¥aaaa`a^````aa]\_a\_\_``@HWI-EAS443:3:45:333:1283#0/1  
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+HWI-EAS443:3:45:333:1283#0/1  
aaaa^b[a¥WNI¥\_R[\_XaVSU[W^aZ\_]RLYXPR]G]QZ  
@HWI-EAS443:3:45:767:824#0/1  
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+HWI-EAS443:3:45:767:824#0/1  
]\_bb\_`b\_aaa`a\_aaaaabbba`aaa¥¥a`a`ab`aaaa  
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+HWI-EAS443:3:46:999:775#0/1  
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@HWI-EAS443:3:47:1032:440#0/1  
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+HWI-EAS443:3:47:1032:440#0/1  
aaa\_`b`a\_a`Z`a`aa^aU\_^^[a`aY`\_\_`^V\_^X]^  
@HWI-EAS443:3:47:1499:316#0/1  
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+HWI-EAS443:3:47:88:872#0/1  
^Z^\_]\_aabb]^VR`\_`a`a^a\_[`[P`¥SPUV]XY][^  
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+HWI-EAS443:3:48:20:140#0/1  
``aaa[S`Ybaaaaaaaaaab`]T¥]^¥`U^XYVL¥¥Z[  
@HWI-EAS443:3:48:337:1340#0/1  
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+HWI-EAS443:3:48:337:1340#0/1  
a`b[X`Xb\_Y\_aa\_a\_\_a`a`Wa¥^¥a¥`\_a]a]`\_\_Sa¥  
@HWI-EAS443:3:48:358:177#0/1  
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+HWI-EAS443:3:48:358:177#0/1  
aaaaa\_aaaaaa^\_\_aa``\_Z\_[\_[Z\_`¥\_\_U^\_¥\_\_¥^  
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+HWI-EAS443:3:48:510:1955#0/1  
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aa``ab^^babaaaa\_aba`aa`KR\_a\_Y\_a`aX[]0`^`  
@HWI-EAS443:3:4:302:1194#0/1  
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+HWI-EAS443:3:4:302:1194#0/1  
a``^`\_¥aa`a`aaa\_^aXM[aaa^V]^`^\_a\_YaWaa`a`  
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+HWI-EAS443:3:4:709:1512#0/1  
Y`[RRX`]b`¥`\_PU]\_ZS[XaYaVYX\_QQ[XP\_0aYSaQ  
@HWI-EAS443:3:50:1402:926#0/1  
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+HWI-EAS443:3:50:1402:926#0/1  
^ba\_¥aaaab`bbabbbba````ba\_Uaa`¥^`a\_Za`aa  
@HWI-EAS443:3:50:717:1197#0/1  
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aaabaabaa`bb\_bbaa\_a`^aba\_aa`\_`\_a`^`aa\_  
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+HWI-EAS443:3:50:865:1407#0/1  
^\_\_X[ab]bZ`ba[LaZba\_^¥[a\_b]aabbabbbbaaab  
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+HWI-EAS443:3:51:380:213#0/1  
]b\_XZab¥[¥U]aUaba\_\_]abaaabaabaaba\_`a`a`a  
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+HWI-EAS443:3:51:636:959#0/1  
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+HWI-EAS443:3:52:702:678#0/1  
\_`a\_X]\_abab]W\_bb`a`\_^¥\_`^`aaa[aa\_]\_]\_^[[  
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+HWI-EAS443:3:54:854:90#0/1  
aba`bbbb`[\_`^[\_`bbba]a[\_`\_a\_¥\_`abaX`^`\_\_a  
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+HWI-EAS443:3:54:88:238#0/1  
aaaabbaaaaabaaaabaaa\_`¥][aaaU``\_a\_\_a^[Y¥  
@HWI-EAS443:3:55:1585:1422#0/1  
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+HWI-EAS443:3:55:1585:1422#0/1  
aa]aa`ab\_ba\_¥T¥]\_\_a\_YPaa[^a]Q[\_a]\_a]\_`V  
@HWI-EAS443:3:55:1710:605#0/1  
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+HWI-EAS443:3:55:1710:605#0/1  
abaa`\_b\_aaa`^¥\_Y\_¥\_¥\_`^a`\_ZZ\_a\_\_`¥R[Q¥Q^]  
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+HWI-EAS443:3:56:1428:974#0/1  
abaaabaaaaaba`aa`\_Xa\_U\_\_\_`[S``\_`a`\_[aUUU  
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CATGGACTCCAATACCCTGGAAC TAAGAAGCAGATACTGG  
+HWI-EAS443:3:56:497:1266#0/1  
a^ba\_`aa]a[ ]\_\_a`b]`aa¥`XR`Y]a¥`a\_`\_¥\_[H  
@HWI-EAS443:3:57:453:677#0/1  
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+HWI-EAS443:3:57:453:677#0/1  
ab`\_`a`[¥b\_bba\_aa\_a]``]a\_`Y^^aba^^\_a`a\_a  
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Y`a`\_V`¥IZ\_\_]]`aa`^]][\_`[¥TZZFYVUXUZ[Y  
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+HWI-EAS443:3:59:814:1300#0/1  
aa[abaa^aaa`¥aa\_a\_aa]aaaa^aW\_`[OJS¥P  
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+HWI-EAS443:3:5:1182:939#0/1  
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@HWI-EAS443:3:60:1337:310#0/1  
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+HWI-EAS443:3:60:1337:310#0/1  
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+HWI-EAS443:3:60:34:861#0/1  
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abbb^a]Vabaaba`a`aa\_a¥`\_\_\_\_\_`Z^`\_^\_`^¥^`  
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+HWI-EAS443:3:60:695:758#0/1  
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abb^]\_abaaaa`aaaaaa`\_`a`aa`Ya\_\_\_W\_a^`^`  
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+HWI-EAS443:3:61:1664:1933#0/1  
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+HWI-EAS443:3:61:1788:1650#0/1  
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@HWI-EAS443:3:63:1214:826#0/1  
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+HWI-EAS443:3:63:1214:826#0/1  
]abbaaa]Z`aa^``¥\_aQa¥aa¥T]`[a`\_a\_\_¥`a`\_`  
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+HWI-EAS443:3:6:1340:1099#0/1  
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+HWI-EAS443:3:72:909:2008#0/1  
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@HWI-EAS443:3:73:377:1700#0/1  
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+HWI-EAS443:3:73:377:1700#0/1  
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+HWI-EAS443:3:73:467:669#0/1  
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+HWI-EAS443:3:73:770:1491#0/1  
a\_Z]]Z^ba`P`a^Z`U`^a`aKKW`a¥`W`XWZ  
@HWI-EAS443:3:74:1332:318#0/1  
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+HWI-EAS443:3:74:1332:318#0/1  
]S\_aX\_aa\_aa¥Rbbaab\_baa\_N\_W[a`abO\_aYa\_\_\_V  
@HWI-EAS443:3:76:34:1709#0/1  
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+HWI-EAS443:3:76:34:1709#0/1  
\_bba]^¥b`¥`]baa`¥\_WT\_Wa¥`UTZ\_[[Z00^RXVNY  
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+HWI-EAS443:3:76:573:172#0/1  
V\_`bb`¥`\_\_aa`\_\_aa\_¥W`^\_bb]bb`]^`b`b`aaa  
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TGCTTCTTAGTTCAGGGTATTGGAGTCCATGGTTTCCAC  
+HWI-EAS443:3:76:82:901#0/1  
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+HWI-EAS443:3:77:285:1569#0/1  
aaQZPba`Mb`]Y^YaYa^\_[]]U¥]^\_\_\_\_`]ZR\_\_]UU¥

@HWI-EAS443:3:77:982:186#0/1  
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+HWI-EAS443:3:77:982:186#0/1  
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+HWI-EAS443:3:78:760:1453#0/1  
`a¥W```Vabbbā]bbabb```a^`Q`bbabba¥b]ba`b  
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+HWI-EAS443:3:79:1175:470#0/1  
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@HWI-EAS443:3:79:1710:341#0/1  
GGCCCAGTATCTGCTTCTTAGTTCCAGGGTATTGGAGTCC  
+HWI-EAS443:3:79:1710:341#0/1  
\_\_`]R\_babb¥ab¥^ba]bZ`a`[\_aaa`¥¥^XaaU]UZY  
@HWI-EAS443:3:79:229:97#0/1  
TAAGAAGCAGATACTGGGCCATAAGGACCAGGAGTGGAGG  
+HWI-EAS443:3:79:229:97#0/1  
a``aaaaaa\_aa^a\_``\_`\_`a\_\_`\_\_\_\_\_``X\_X\_\_^\_\_  
@HWI-EAS443:3:79:648:71#0/1  
TAAGAAGCAGATACTGGGCCATAAGGACCAGGAGTGGAGG  
+HWI-EAS443:3:79:648:71#0/1  
aa[aa^Y`\_]aZ`^`\_`][0\_^\_]\_`]^`^`^Z`Z^]Z^^  
@HWI-EAS443:3:79:717:931#0/1  
CCTCCACTCCTGGTCCTTAGTTCCAGGGTATTGGAGTCCAT  
+HWI-EAS443:3:79:717:931#0/1  
aabbabaabaaa\_¥aaaaa\_`[a`a`a\_``\_`\_`¥\_a\_\_¥\_\_  
@HWI-EAS443:3:79:847:1860#0/1  
CCCAGTATCTGCTTCTTAGTTCCAGGGTATTGGAGTCCAT  
+HWI-EAS443:3:79:847:1860#0/1  
ab\_aaaa`a]]`YY]\_\_\_a\_aab`¥`^Raa¥\_Y\_\_RWV^\_  
@HWI-EAS443:3:7:780:649#0/1  
GCCCAGTATCTGCTTCTTAGTTCCAGGGTATTGGAGTCCA  
+HWI-EAS443:3:7:780:649#0/1  
aYZXZb`aa`abaa[X`]X\_\_\_SN\_aa\_G\_]Y¥\_aU]RZ\_  
@HWI-EAS443:3:81:769:587#0/1  
TAGTTCCAGGGTATTGGAGTCCATGGTTTCCACATTCTCA  
+HWI-EAS443:3:81:769:587#0/1  
`ZaaaaWV\_\_XQZ^a\_]][XY]]XOWW]`Y\_\_ZZNWY^[\_  
@HWI-EAS443:3:82:231:625#0/1  
ATGGCCCAGTATCTGCTTCTTAGTTCCAGGGTATTGGAGT  
+HWI-EAS443:3:82:231:625#0/1  
aaQUa]ZURGa`ZV¥VWa\_[[\_[\_`YSVPLTZWZRWZPHWR  
@HWI-EAS443:3:83:1252:1613#0/1  
GGA AACCATGGACTCCAATACCCTGGAAC TAAGAAGCAGA  
+HWI-EAS443:3:83:1252:1613#0/1  
```aaaaa\_aaa^]]X`a¥¥`\_\_\_^^^Z`^\_`¥a]\_\_\_\_\_  
@HWI-EAS443:3:83:1712:232#0/1
CTCCAATACCCTGGAAC TAAGAAGCAGATACTGGGCCATA

+HWI-EAS443:3:83:1712:232#0/1
abb`bbbaaaabbababbabaaa`^`aa`aa]^W^aaa
@HWI-EAS443:3:83:741:354#0/1
GGAAGTAAGAAGCAGATACTGGGCCATAAGGACCAGGAGT
+HWI-EAS443:3:83:741:354#0/1
aa_PU]^`_T]X]X¥VPRN[U[[`¥Y_V[L¥[LO[_^_W
@HWI-EAS443:3:84:191:1784#0/1
TTATGGCCCAGTATCTGCTTCTTAGTTCCAGGGTATTGGA
+HWI-EAS443:3:84:191:1784#0/1
`T`aZZ¥]^`aTUT_a`]W^QTNT]W¥¥`Y[UXU00VPW]_
@HWI-EAS443:3:85:1439:224#0/1
GAGAATGTGGAAACCATGGACTCCAATACCCTGGAAGTAA
+HWI-EAS443:3:85:1439:224#0/1
abbaabb`baaaaY[^`a``Wa_`a``^¥_]_a`^aX``^
@HWI-EAS443:3:86:1086:157#0/1
CTTCTTAGTTCCAGGGTATTGGAGTCCATGGTTTCCACAT
+HWI-EAS443:3:86:1086:157#0/1
Y`bba`abbabbbb_b_ba]_0^_ab`bbaabaa¥aaa
@HWI-EAS443:3:86:252:778#0/1
CTAAGAAGCAGATACTGGGCCATAAGGACCAGGAGTGGAG
+HWI-EAS443:3:86:252:778#0/1
abba^abbabbaaaaaaaaaaaaaaaaaa¥Zb__a0a`_a
@HWI-EAS443:3:86:548:396#0/1
ATCTGCTTCTTAGTTCCAGGGTATTGGAGTCCATGGTTTC
+HWI-EAS443:3:86:548:396#0/1
abaabaab_aa`^aaa]a^`Waaa`_a`_`_`aa__`Z
@HWI-EAS443:3:87:1373:59#0/1
GCCCAGTATCTGCTTCTTAGTTCCAGGGTATTGGAGTCCA
+HWI-EAS443:3:87:1373:59#0/1
aYJV^aNX`_[U¥^ZM¥_¥^]_]ZRPPUUYYSVYV^QQYY
@HWI-EAS443:3:88:106:1610#0/1
GCCCAGTATCTGCTTCTTAGTTCCAGGGTATTGGAGTCCA
+HWI-EAS443:3:88:106:1610#0/1
a_U`a_PR`U`bbaa^_Z[ZQX`H^MN_S_aaa[]]¥UW
@HWI-EAS443:3:88:114:521#0/1
CCAGTATCTGCTTCTTAGTTCCAGGGTATTGGAGTCCATG
+HWI-EAS443:3:88:114:521#0/1
]_^_[H_Y`aaa_¥aa^`_TZTT_bb_ab``¥TT^_Z]^`_
@HWI-EAS443:3:88:1681:951#0/1
CTCCACTCCTGGTCCTTATGGCCCAGTATCTGCTTCTTAG
+HWI-EAS443:3:88:1681:951#0/1
abaab`bbbb`baabbbbaaba_aa]^`^¥`a`ab_ba¥a
@HWI-EAS443:3:88:531:615#0/1
TGGAAGTAAGAAGCAGATACTGGGCCATAAGGACCAGGAG
+HWI-EAS443:3:88:531:615#0/1
a`^a^abaaaa_¥__aaaa_aaa^`aa`a`Y`[T``^a
@HWI-EAS443:3:88:94:412#0/1
GGCCCAGTATCTGCTTCTTAGTTCCAGGGTATTGGAGTCC
+HWI-EAS443:3:88:94:412#0/1
`_^_a`¥_aa`aZ^a¥`a`a¥`_`¥_aZMY_¥a_¥]N^W

+HWI-EAS443:3:94:656:1131#0/1
a_^_^`^` [K^_]`_X_a]a` ``¥Y^`_`VIRaY` `a^TU
@HWI-EAS443:3:94:789:377#0/1
GCCCAGTATCTGCTTCTTAGTTCCAGGGTATTGGAGTCCA
+HWI-EAS443:3:94:789:377#0/1
a_a`abaab`aa_bb`aaa__aa`aa___a`a_a`__YU`
@HWI-EAS443:3:95:721:715#0/1
GCCCAGTATCTGCTTCTTAGTTCCAGGGTATTGGAGTCCA
+HWI-EAS443:3:95:721:715#0/1
ZQ¥a¥___XU[[a_¥ba^` `bbbb^_^aK¥` [^_b`R^]a
@HWI-EAS443:3:96:1064:488#0/1
GCCCAGTATCTGCTTCTTAGTTCCAGGGTATTGGAGTCCA
+HWI-EAS443:3:96:1064:488#0/1
a_aVPSVYVY^`_¥_]XUX_VYQVY^YUYVY_]V]YVSB
@HWI-EAS443:3:96:492:110#0/1
TTCTTAGTTCCAGGGTATTGGAGTCCATGGTTTCCACATT
+HWI-EAS443:3:96:492:110#0/1
aaaaaab`a`_`aa`X` `]__^a]]X_Z__Z`aZU_ZZ^`
@HWI-EAS443:3:98:945:17#0/1
CTAAGAAGCAGATACTGGGCCATAAGGACCAGGAGTGGAG
+HWI-EAS443:3:98:945:17#0/1
`_aS_UZT^a^]aSY`_`a¥]Ia]a]`aaYJT^Z_bSbaYa
@HWI-EAS443:3:99:1488:589#0/1
TAAGAAGCAGATACTGGGCCATAAGGACCAGGAGTGGAGG
+HWI-EAS443:3:99:1488:589#0/1
`b`b`aa`a_aa__a`a`_Z_b]aaa`S^_aaWaXa`^_a
@HWI-EAS443:3:9:1348:252#0/1
CTCCACTCCTGGTCCTTATGGCCCAGTATCTGCTTCTTAG
+HWI-EAS443:3:9:1348:252#0/1
a_a^`abaa_aRXaYa_aaPG[Q_W]T^^¥^_TQYQ[^Ya
@HWI-EAS443:3:9:30:1296#0/1
CTGCTTCTTAGTTCCAGGGTATTGGAGTCCATGGTTTCCA
+HWI-EAS443:3:9:30:1296#0/1
aa`bbbabbb[`]ababa_bbaaaaa_baa`a`^aaaa
@HWI-EAS443:3:9:78:290#0/1
GGCCCAGTATCTGCTTCTTAGTTCCAGGGTATTGGAGTCC
+HWI-EAS443:3:9:78:290#0/1
aab` `aa[Z_]W_^]_`_`aaU[^_Z^^aVYWR`Y_RLRX
@HWI-EAS443:3:9:928:702#0/1
TGAGAATGTGGAAACCATGGACTCCAATACCCTGGAACCTA
+HWI-EAS443:3:9:928:702#0/1
`baa]aaa[aaaaaaaa`aa`]a_]`^`a^^)`aa__Za_
@HWI-EAS443:3:25:1741:295#0/1
TTGAAACAACCTAGTTCAGACAATGGAACGTGCTACCCAGG
+HWI-EAS443:3:25:1741:295#0/1
NSZU¥`bV^ab_Z`a_baZWa]aba¥b_RR]S¥a]`Raa`
@HWI-EAS443:3:83:1093:635#0/1
GCTACCCAGGAGATTTTCATCGATTATGAGGAGCTAAGAGA
+HWI-EAS443:3:83:1093:635#0/1
`GQVPZRJ¥XVXZX`aVX_W`SUYZ` `Z_^ZZRULVSJSR

+HWI-EAS443:3:23:584:1267#0/1
aaabaaaabaaa^Y`a__`QU^a_]W[^W^^[Z[Z]]XP
@HWI-EAS443:3:24:1001:579#0/1
CAATGAGATACCCAATTACAGCAGACAAGAGAAAAGCTAAT
+HWI-EAS443:3:24:1001:579#0/1
abbaaab_abaabbababaabaaaaaVbbb`_abbb`aa
@HWI-EAS443:3:25:1235:1867#0/1
CAATGAGATACCCAATTACAGCAGACAAGAGAAAAGCTAAT
+HWI-EAS443:3:25:1235:1867#0/1
ab_bbbbbbbbabbbabbaabababaababbbabaa`bbb
@HWI-EAS443:3:25:264:967#0/1
CAAAAAGTAATGTGCTAATTGGGCAAGGGGACGTAGTGTT
+HWI-EAS443:3:25:264:967#0/1
abba_ab_a]abaaaaaa`a`]^`a`a_[_]`^a`_a]Z]^`
@HWI-EAS443:3:27:1057:736#0/1
AAAGGATGCAGGTGCATTGACTGAAGATCCAGAAGGAAGG
+HWI-EAS443:3:27:1057:736#0/1
aabbaaaaaaaZ`^aa`aa_a```a`aaaa_````_aaa
@HWI-EAS443:3:29:1594:439#0/1
CAATGAGATACCCAATTACAGCAGACAAGAGAAAAGCTAAT
+HWI-EAS443:3:29:1594:439#0/1
¥QRbba_Jbb^aa_^bb^aSUX^a[QX_b^¥¥`aa^U`_]
@HWI-EAS443:3:2:1567:622#0/1
GATTTCTCATTTTGGGCAAAGAAGACAAGAGATGGCCCAG
+HWI-EAS443:3:2:1567:622#0/1
a__```X_a`]`_[UR_¥__^^_]Z^]]Z_ZW^ZURVZ^
@HWI-EAS443:3:30:1753:650#0/1
CAATGAGATACCCAATTACAGCAGACAAGAGAAAAGCTAAT
+HWI-EAS443:3:30:1753:650#0/1
`bbaX¥bbababbbaabb[bb`X_a``ab_bba_aGa`¥b
@HWI-EAS443:3:32:864:1869#0/1
CAAAAAGTAATGTGCTAATTGGGCAAGGGGACGTAGTGTT
+HWI-EAS443:3:32:864:1869#0/1
¥_Y[QW^T]^`]TMX]Y_¥YUSW]^`][NYW[[WFUDKZRO
@HWI-EAS443:3:32:935:249#0/1
TGGCAATGATTTCTCATTTTGGGCAAAGAAGACAAGAGAT
+HWI-EAS443:3:32:935:249#0/1
¥^aabaS`^ZZ]Xa`_aaab`_a_abbb`_aa¥Q`_b`]
@HWI-EAS443:3:35:1719:1076#0/1
CAAGGACAAACCCTCTGGAGCAAACAAACGATCTGAGCA
+HWI-EAS443:3:35:1719:1076#0/1
`¥WZ¥X^RW`]Y^Q_]^SXYV]^W^`P__¥_a`a`[_Ta
@HWI-EAS443:3:37:1474:1543#0/1
GACGATTTCTCATTTTGGGCAAAGAAGACAAGAGATGCCC
+HWI-EAS443:3:37:1474:1543#0/1
¥XT]WQ_W`¥US¥¥``YPFMVW_`^`_`_aMI^X`^^_¥QQ
@HWI-EAS443:3:39:869:415#0/1
ATGATTCAGAGAGGAATGAACAAGGACAAACCGTCCTGA
+HWI-EAS443:3:39:869:415#0/1
aa^a^aaa`a¥bYaaaa`aa`_a`a^`_a`_MPaR¥UZ`^`

@HWI-EAS443:3:42:1469:937#0/1
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+HWI-EAS443:3:42:1469:937#0/1
abbbbbb¥Ub[`baa[aababb][IWZ[`^bbbaababbaa
@HWI-EAS443:3:46:1700:1187#0/1
CAAGGACAAACCCTCTGGAGCAAAACAAACGATCTGAGCA
+HWI-EAS443:3:46:1700:1187#0/1
aa^X^_`]^`^U_aa¥`^`RaS`¥`^^aa¥`aY[Z_TX¥S_
@HWI-EAS443:3:48:1073:1122#0/1
CAATGAGATACCCAATTACAGCAGACAAGAGAAAGCTAAT
+HWI-EAS443:3:48:1073:1122#0/1
aa]^`a]^`ab^`aTbaaaaa^^T]^YZ`W_a_aY¥aY``a`
@HWI-EAS443:3:50:1763:1594#0/1
CAATGAGATACCCAATTACAGCAGACAAGAGAAAGCTAAT
+HWI-EAS443:3:50:1763:1594#0/1
^`]^_ababbb`aa]babbZbaWb`b[aabbbbbb[baa`]a
@HWI-EAS443:3:50:246:1455#0/1
ATCATCATTCTCACTTCTCCTCCTGGAGGTACATCTGCT
+HWI-EAS443:3:50:246:1455#0/1
abbabbbbbbXbab`bbabaab``aa^¥`aa`aaaaZa`¥a
@HWI-EAS443:3:51:567:640#0/1
CAATGAGATACCCAATTACAGCAGACAAGAGAAAGCTAAT
+HWI-EAS443:3:51:567:640#0/1
aaabb_bab```_`babb`aaba_baa_ab`bba`a_a_`a
@HWI-EAS443:3:51:634:768#0/1
CAATGAGATACCCAATTACAGCAGACAAGAGAAAGCTAAT
+HWI-EAS443:3:51:634:768#0/1
Zaaabbbbbbbaabbbbababbabbbbbb`¥_bbaZa
@HWI-EAS443:3:54:276:122#0/1
AAGAAGTGGAGATCTAATGTGCGAGTCCCGCAAGCGCGA
+HWI-EAS443:3:54:276:122#0/1
_U_MUa```¥``^LWTR`S[_T_^HX^¥XLQ^QBBBBBBBB
@HWI-EAS443:3:59:215:1296#0/1
GCCTTGTTGTAATTGAATACTGGAGAATTGCCTATTCCAC
+HWI-EAS443:3:59:215:1296#0/1
aba_^aa_bZ___]a[`baZ^`]^`^`bbbaa^FW]a]QN]_
@HWI-EAS443:3:61:337:1043#0/1
CAATGAGATACCCAATTACAGCAGACAAGAGAAAGCTAAT
+HWI-EAS443:3:61:337:1043#0/1
abY`¥S_ab`]a[aba`bbb`a¥^^`[^bbaa]``a`____
@HWI-EAS443:3:63:1291:1899#0/1
TACTACTAAGACCACTGTGGACCATATGGCCAGAATAAA
+HWI-EAS443:3:63:1291:1899#0/1
¥I^bb_babaX[ba_I_b_0a`bab_a`]TLV¥HX][Wab
@HWI-EAS443:3:64:690:293#0/1
GAAAGCTATGTGCTAATTGGGCAAGGGGACGTAGTGTGG
+HWI-EAS443:3:64:690:293#0/1
¥``aab_W_aVaX_ZS]b`Z`a`aaaa_`^^[_S_[a`[
@HWI-EAS443:3:64:84:988#0/1
GTGCCTTATTCTCTCTGGAATCATGTCCATTATTCTCTT

+HWI-EAS443:3:64:84:988#0/1
a`¥baba^aa_]`aa`VX_]¥`Y``_a^^Q]a`Z`Z
@HWI-EAS443:3:67:84:476#0/1
CAATGAGATACCCAATTACAGCAGACAAGAGAAAGCTAAT
+HWI-EAS443:3:67:84:476#0/1
aaaa_aaa_a_````_a^`^X[]^`^^`_]^`^`^]
@HWI-EAS443:3:68:1656:1974#0/1
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+HWI-EAS443:3:68:1656:1974#0/1
ababbbabbbbaa_babbbabbbabbaabb`baaaaaaaaaa
@HWI-EAS443:3:68:1685:793#0/1
GCCTCTTATCGTTTGTGTTTGTCTCCAGAGGGTTTGCCTTG
+HWI-EAS443:3:68:1685:793#0/1
a_`a^aaaa_b_aaaZ```[[^`^[]X^``U¥_]R[W]__
@HWI-EAS443:3:68:715:676#0/1
GCCTTGTTGTAATTGAATACTGGAGAATTGCCTATTCCAC
+HWI-EAS443:3:68:715:676#0/1
abbbbbbabb`bababbabaaaaaabaaaYaaa_a`_a`
@HWI-EAS443:3:70:1280:1413#0/1
CATTCTATTCCACCATGTTACGGCCAGAGGTGGCCTGCA
+HWI-EAS443:3:70:1280:1413#0/1
`__[P¥a___Z¥X_Y_^```[^`^XVV¥`_NQ[GKNUKX
@HWI-EAS443:3:71:1251:595#0/1
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+HWI-EAS443:3:71:1251:595#0/1
abbbbbb_babaaabbbbabbbbabbbabb^bRaaab
@HWI-EAS443:3:73:274:469#0/1
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+HWI-EAS443:3:73:274:469#0/1
¥abbbabbaababa`bbbabaababb`aa`bbbbbaaaaa
@HWI-EAS443:3:75:94:1174#0/1
CAATGAGATACCCAATTACAGCAGACAAGAGAAAGCTAAT
+HWI-EAS443:3:75:94:1174#0/1
aTZZ¥V¥U_`b``_Y`b`aaa`KUH¥T_T]^JMWUR[[¥
@HWI-EAS443:3:76:1611:698#0/1
CACCTCNATGCAATTTTCTCATTGACTGTGAATGTGAGA
+HWI-EAS443:3:76:1611:698#0/1
`bab¥]D]babbbabab^¥`_ab¥Y`a`_0aV[^a[`R¥a
@HWI-EAS443:3:77:630:923#0/1
TTGCCTTGTTGTAATTGAATACTGGAGAATTGCTCCCACC
+HWI-EAS443:3:77:630:923#0/1
`b]ab_b¥bb_J_[bU_]XPVaU[YbNab][YaQF^RR_`
@HWI-EAS443:3:80:1679:1488#0/1
CAATGAGATACCCAATTACAGCAGACAAGAGAAAGCTAAT
+HWI-EAS443:3:80:1679:1488#0/1
Kbab_baU`bbKZWbbab¥UWa[ba^ba[LVbabbbRHwa^
@HWI-EAS443:3:84:1225:1355#0/1
CAATGAGATACCCAATTACAGCAGACAAGAGAAAGCTAAT
+HWI-EAS443:3:84:1225:1355#0/1
`[````]W^aY`Y`aa`[¥]^aa`__`^aaaaa`¥U`_`_`

@HWI-EAS443:3:85:1123:544#0/1
CAATGAGATACCCAATTACAGCAGACAAGAGAAAGCTAAT
+HWI-EAS443:3:85:1123:544#0/1
abba¥ab_bb^bababbbabb`bbaabababbaabab_aa
@HWI-EAS443:3:85:447:343#0/1
CAATGAGATACCCAATTACAGCAGACAAGAGAAAGCTAAT
+HWI-EAS443:3:85:447:343#0/1
U_a`a`^^a¥[¥a^S^baZ__`b`ZZ]a¥aT^`Yab`^Ya
@HWI-EAS443:3:88:1779:1842#0/1
GGTCCACAGTGGTCTTAGTGAGTATCTCGCGAGGGGGGGA
+HWI-EAS443:3:88:1779:1842#0/1
ab¥¥Xba_bUba^X_bTbUaS`aaaYV]``¥P]EVE^`aB
@HWI-EAS443:3:89:1058:532#0/1
AGAGCAGCTAAGACCACTGTGGACCATATGGCCATAATCA
+HWI-EAS443:3:89:1058:532#0/1
aa`baababbbaaaabaaa`_aa_``[aa_aa__a_]`W]
@HWI-EAS443:3:89:1147:1739#0/1
CAATGAGATACCCAATTACAGCAGACAAGAGAAAGCTAAT
+HWI-EAS443:3:89:1147:1739#0/1
`abbbbbbbba_`babbbbbbbbaaababbbbbbaaaaaa
@HWI-EAS443:3:8:682:1040#0/1
CAAAATGAGAAATCCTCTCAGGACAGCAGACTCTCTTGTC
+HWI-EAS443:3:8:682:1040#0/1
a`^`bbbbbb^abbbba`abaa]P`[aa`aaU[]PX_W^T
@HWI-EAS443:3:90:505:103#0/1
CAATGAGATACCCAATTACAGCAGACAAGAGAAAGCTAAT
+HWI-EAS443:3:90:505:103#0/1
a]aabab_a]`_^`^`aa_aaaaa[[]Ra_aa_]`[¥^^_
@HWI-EAS443:3:91:1117:540#0/1
TGGATCAGACTTACAGTTCTTGGAAAGGATGCAGGTGCAT
+HWI-EAS443:3:91:1117:540#0/1
aba`aaab``baaa`b_a`abba`_^aaa_a]`a`X`Z__
@HWI-EAS443:3:93:196:72#0/1
AACAAACGATGCTGGATCAGACCGAGTGATGGTCTTGGAA
+HWI-EAS443:3:93:196:72#0/1
[a`aab]baaba`aa^]U___UWaW^WaW¥_[VU_WUZYY
@HWI-EAS443:3:93:292:395#0/1
CAATGAGATACCCAATTACAGCAGACAAGAGAAAGCTAAT
+HWI-EAS443:3:93:292:395#0/1
aX^`aaaaaaaaaaaaaaaa__`a`a]`_^`_`W^[]_[]^
@HWI-EAS443:3:95:1152:171#0/1
CGGGCCGGTATTCTCACAAGAGGATTGCATGATCAAGGC
+HWI-EAS443:3:95:1152:171#0/1
X`bb`Tbbbbbbbaababbbabbbababbaabaabbbabbbba
@HWI-EAS443:3:95:883:452#0/1
CAATGAGATACCCAATTACAGCAGACAAGAGAAAGCTAAT
+HWI-EAS443:3:95:883:452#0/1
a`baa``ZabaL`babbaa`a¥bbb[``bb``aab`baa`
@HWI-EAS443:3:97:1153:873#0/1
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+HWI-EAS443:3:97:1153:873#0/1
aaababbbabba]bbbbbabbb^bbaabbabbaaaba_aaa
@HWI-EAS443:3:97:524:2011#0/1
CAATGAGATACCCAATTACAGCAGACAAGAGAAAAGCTAAT
+HWI-EAS443:3:97:524:2011#0/1
bU¥a`ZTZ`ZUY^¥]S]_V][¥_]`VT_]Za]^XUTa[
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+HWI-EAS443:3:99:1788:1502#0/1
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+HWI-EAS443:3:9:584:463#0/1
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+HWI-EAS443:3:9:736:1450#0/1
aa`a[UY_a`bbababP`_baXX```a¥a`_a]`a_^`¥a
@HWI-EAS443:3:13:1140:594#0/1
GAGGATTTCTCATTTTGGGCAANGAAGACAAGAGATGGCC
+HWI-EAS443:3:13:1140:594#0/1
aaab`a`aaa_aaaa`a`__ZD[``a`_a]_^_U^_¥Z
@HWI-EAS443:3:8:1182:1142#0/1
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+HWI-EAS443:3:8:1182:1142#0/1
ab[D[^aaaa`[_[aY]_a`]_a_Q¥¥^WHXaaQPDDU`
@HWI-EAS443:3:100:537:209#0/1
AATGATTTCTCATTTTGGGCAAGACAAGAGATATGG
+HWI-EAS443:3:100:537:209#0/1
U`V^WT[_[Y_aa^X¥_bba]HYb^aa`¥XT_I]SY^BBB
@HWI-EAS443:3:10:1193:1820#0/1
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+HWI-EAS443:3:10:1193:1820#0/1
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XaZ_a¥_XTbb`]^ba¥¥ab^H`K`]BBBBBBBBBBBB
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+HWI-EAS443:3:1:96:115#0/1
Zba^_I[a`^]SZTPXZaXVa[N_aS¥QBBBBBBBBBBBB
@HWI-EAS443:3:32:1546:1836#0/1
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+HWI-EAS443:3:32:1546:1836#0/1
``Xa^^bab_Z¥[_YT`bbaa^¥b]]¥]_IaaaXa[baa¥
@HWI-EAS443:3:35:286:931#0/1
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+HWI-EAS443:3:35:286:931#0/1
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+HWI-EAS443:3:37:867:984#0/1
_ZORMOS]_YYX_`WPDTSX¥UW^PTBBBBBBBBBBBBBB
@HWI-EAS443:3:39:316:1753#0/1
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+HWI-EAS443:3:39:316:1753#0/1
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@HWI-EAS443:3:42:1363:1914#0/1
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+HWI-EAS443:3:42:1363:1914#0/1
_RIR_a_aSR[aTSVb_a`bbaaZaaa¥¥aZ]]FS¥ZP_U
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+HWI-EAS443:3:4:291:1130#0/1
a[^aa_a_[aG]Ua_`Z`W`^`_Q_YY`¥GS_]QZBBBB
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+HWI-EAS443:3:52:634:378#0/1
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]`aa`Va^[N[`¥YZa]][`ba`bb_aa]^aaaWQZI
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¥`^``UU_ba_[H_¥babXbaa]SwwbYaVG]aVY^YRS
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+HWI-EAS443:3:98:1126:2009#0/1
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@HWI-EAS443:3:98:888:516#0/1
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+HWI-EAS443:3:98:888:516#0/1
U_`UaVJZRTY`Za`^TX_]bbbNHQ¥0¥`T¥YU_bU``
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+HWI-EAS443:3:10:1471:874#0/1
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+HWI-EAS443:3:18:1492:1235#0/1
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@HWI-EAS443:3:52:590:2005#0/1
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+HWI-EAS443:3:52:590:2005#0/1
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+HWI-EAS443:3:61:1052:1531#0/1
_X`_Z`a`[_a[X_¥aDX`_`TZXS`_`WYZVFOTYSZ
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+HWI-EAS443:3:64:619:378#0/1
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+HWI-EAS443:3:77:1371:1971#0/1
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+HWI-EAS443:3:78:1111:856#0/1
^aa`_HVW]Z]__a_¥`aaa`a`_SD¥¥]`L[VPUUN[^
@HWI-EAS443:3:79:509:1440#0/1
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+HWI-EAS443:3:79:509:1440#0/1
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a_SLW^[¥aaabb`a[abUDX`aWQaaaU`_aa`_]¥^_Z
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+HWI-EAS443:3:11:160:1823#0/1
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+HWI-EAS443:3:65:570:634#0/1
``a`_`^a^[^S_^bZbba_```_bbZ^`¥_XaY^UP_X
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+HWI-EAS443:3:36:1303:141#0/1
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+HWI-EAS443:3:36:34:184#0/1
abbabb]abab_aa_aaaaa`aa``]`X]````^``S]aa
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+HWI-EAS443:3:39:1120:1715#0/1
Zabb¥_Z_ab¥baa```a^aa^T]b^Vbaa^P]aa`a[WU
@HWI-EAS443:3:42:534:466#0/1
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+HWI-EAS443:3:42:534:466#0/1
aa_aaaaaaaaaaaaaa_a[`aa_aa]aaa_``^]^^]_`
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+HWI-EAS443:3:46:1262:2009#0/1
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+HWI-EAS443:3:49:1215:1105#0/1
¥T]__Z^¥^^WaZT[_b`]_a^YKYNVYISX]YZ]¥a¥¥
@HWI-EAS443:3:4:787:340#0/1
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+HWI-EAS443:3:4:787:340#0/1
^^bbZbbb`_TaV^J_a_T_a_]baa]TPRS^ZBBBBBBB
@HWI-EAS443:3:52:1352:1167#0/1
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+HWI-EAS443:3:52:1352:1167#0/1
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+HWI-EAS443:3:53:439:1321#0/1
^babbbbabaa````b`¥aaaabaaaaaaaa]_a_a__
@HWI-EAS443:3:58:1386:1357#0/1
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@HWI-EAS443:3:58:1580:765#0/1
GCAATGAGATACCCAATTACAGCAGACAAGAGAAAGCTAA
+HWI-EAS443:3:58:1580:765#0/1
a_`_aaaa`a_`a`aa`V`]`_]`_`^^^`_`V__^
@HWI-EAS443:3:58:338:983#0/1
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+HWI-EAS443:3:58:338:983#0/1
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@HWI-EAS443:3:63:1741:1984#0/1
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+HWI-EAS443:3:63:1741:1984#0/1
]_YaX`_^^aba^R¥`abbaaaaa_¥]^a``_X`¥`Ya]

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+HWI-EAS443:3:71:1610:1830#0/1
W`_`a_b`ZabWMMU`b^M_abb]VW¥[_`RV_^]FMV_
@HWI-EAS443:3:73:1366:1772#0/1
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+HWI-EAS443:3:73:1366:1772#0/1
aaPWP_aZR^H]^]TR¥[RV_Y[OYTQWYSR^RLXMIDT
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+HWI-EAS443:3:74:484:510#0/1
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+HWI-EAS443:3:75:1191:758#0/1
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@HWI-EAS443:3:75:382:155#0/1
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+HWI-EAS443:3:77:1100:1796#0/1
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@HWI-EAS443:3:77:1560:30#0/1
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+HWI-EAS443:3:77:1560:30#0/1
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+HWI-EAS443:3:77:643:603#0/1
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+HWI-EAS443:3:79:20:901#0/1
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+HWI-EAS443:3:7:1221:1227#0/1
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@HWI-EAS443:3:87:876:2029#0/1
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+HWI-EAS443:3:88:847:528#0/1
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+HWI-EAS443:3:94:1586:805#0/1
a_Y``T`ZN_baZXWT[G[`^XaXaUMX_^WZ^WQTMRVY
@HWI-EAS443:3:94:607:1222#0/1
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+HWI-EAS443:3:94:607:1222#0/1
aa`a¥__]Z_aaTb`aaaa`aaa`_`a^`a`aa`]`^`_Z
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@HWI-EAS443:3:99:1081:1168#0/1
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+HWI-EAS443:3:99:1081:1168#0/1
`_`ba_abb[``b`¥]bbaaabbaa]`b^a_abab__`aK
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+HWI-EAS443:3:75:920:380#0/1
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@HWI-EAS443:3:17:731:1284#0/1
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+HWI-EAS443:3:17:731:1284#0/1
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+HWI-EAS443:3:36:1102:832#0/1
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+HWI-EAS443:3:44:533:1617#0/1
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+HWI-EAS443:3:61:1185:1834#0/1
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+HWI-EAS443:3:61:1218:1360#0/1
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@HWI-EAS443:3:78:1461:571#0/1
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+HWI-EAS443:3:78:1461:571#0/1
a]]_NX]]P]RaW]`_YR[a__^W[ZX¥SH^¥P¥¥_^^]_
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+HWI-EAS443:3:79:360:2032#0/1
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+HWI-EAS443:3:84:276:1667#0/1
a_a¥`aYaa]a^¥^Wa^a`]^Z_^a`¥_G`]_`_]`Y[
@HWI-EAS443:3:91:1392:765#0/1
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+HWI-EAS443:3:91:1392:765#0/1
a`_]X_ROGP¥FTUG]]U^ZSOX^XVPQZ^[^Z¥WW]XHR
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+HWI-EAS443:3:95:283:1666#0/1
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+HWI-EAS443:3:98:1004:1968#0/1
Vb_`^_U_`^`abb`_`aRaa`_baab_G_ZMJD[]aaYD[
@HWI-EAS443:3:10:1455:137#0/1
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+HWI-EAS443:3:10:1455:137#0/1
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+HWI-EAS443:3:11:1116:808#0/1
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+HWI-EAS443:3:13:1454:1909#0/1
aa_aaa__aa`baWWaa_`X^_U`ZVYWa]_¥Z^ZODT
@HWI-EAS443:3:19:855:462#0/1
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+HWI-EAS443:3:19:855:462#0/1
L_^[_a`b`b`a__Z_bbb`_bbb`ab`_a`a]baa`baZ
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AGGATTTCTCATTTTGGGCAAAGAAGACAAGAGATGGCCC
+HWI-EAS443:3:20:115:174#0/1
aa_Z`aaaaa]]aa`a]]`a_Z^`[[`]]`¥^]ZWXWVY
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+HWI-EAS443:3:22:1557:546#0/1
`b]00S[`IOWa¥]SH]baY_S_aY`Z^U`YSYGNXPBB
@HWI-EAS443:3:22:752:1428#0/1
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+HWI-EAS443:3:22:752:1428#0/1
URS]]]TZPPUaX^¥[¥V[WW¥ON^¥WYSZYVU_]ZFR_T_`
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CTGTAATTGGGTATCTCATTGCCATCATCCACTTCTTCCT
+HWI-EAS443:3:23:1502:386#0/1
Z¥_U_ba`ab`S_a]_X`baa_Y_^V^`¥Z¥_a`X`_SZ`
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GGGCCATCTCTTGCTTCTTTGCCAAAATGAGAAATCCT
+HWI-EAS443:3:27:1088:464#0/1
a_````bb]X^]_Z]^Y]aaa¥VVTZ_]¥]aa`aZ^LS^
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+HWI-EAS443:3:27:1261:120#0/1
ab_`Ya^`ba]a[J`T__aa]__¥^SW_^`XS]`_Z`SS[
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GGCAATGAGATACCCAATTACAGCAGACAAGAGAAAAGCTA
+HWI-EAS443:3:27:648:165#0/1
a]_aaabbaa`aa¥_aa`aa_`_^`_]]`__`_`_[]_^
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TAGCTTTCTCTTGCTGCTGTAATTGGGTATCTCATTGCC
+HWI-EAS443:3:27:673:540#0/1
a¥b_abbba^a`[`aba_[[X`aaaZYPaa^`_^]^`X`
@HWI-EAS443:3:28:1434:109#0/1
AGGGGATCTCATTGCCATCATCCACTTCTGAGTGCG
+HWI-EAS443:3:28:1434:109#0/1
_Z¥`NU^QXYTU`]GPRaVTVGXVMW[Z^a`GaXOV¥ZNR

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+HWI-EAS443:3:29:227:1990#0/1
aaaa_`bWH^`b_a`aab`_[aaa_^^a_a`aaaa]a`]Z
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+HWI-EAS443:3:2:1751:754#0/1
abaaa`a`baa`baa]ab_¥`aaa_`^`^aa_YSZEX¥B
@HWI-EAS443:3:31:370:1395#0/1
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+HWI-EAS443:3:31:370:1395#0/1
`¥^_G]`bbbb`Q[a_aabbabbaba_bbaabaaaaV_a[
@HWI-EAS443:3:31:928:755#0/1
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+HWI-EAS443:3:31:928:755#0/1
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@HWI-EAS443:3:32:1350:51#0/1
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+HWI-EAS443:3:32:1350:51#0/1
aba`aaa_aQabaa[aa]___a_]a_^`]a```_Ya^_`
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+HWI-EAS443:3:32:161:1007#0/1
a``Vaaab]ababaaaaaaaaa^`a`^aaa`_]_``_a`^T
@HWI-EAS443:3:33:178:909#0/1
GGCAATGAGATACCCAATTACAGCAGACAAGAGAAAAGCTA
+HWI-EAS443:3:33:178:909#0/1
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@HWI-EAS443:3:35:296:959#0/1
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+HWI-EAS443:3:35:296:959#0/1
aaaaa`]aaa`aa``aaa_`_]`Q_`YXQH[^_[]V][_
@HWI-EAS443:3:35:59:1309#0/1
GGCAATGAGATACCCAATTACAGCAGACAAGAGAAAAGCTA
+HWI-EAS443:3:35:59:1309#0/1
V^a^_X_Z_¥`bbbaa^a`bb`W`¥_¥^INZ___¥¥`_YH
@HWI-EAS443:3:37:1326:1952#0/1
GCGGGGATACTACTAAGACCACTGTGGACCATATGGCCA
+HWI-EAS443:3:37:1326:1952#0/1
a`a`aZ```bbaba`bbbb_bb`a^¥aUZFb`abaa^b`]
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TGGCAATGAGATACCCAATTACAGCAGACAAGAGAGCATT
+HWI-EAS443:3:38:48:1271#0/1
abb__^_a¥__]^_aba`aa^```_T_X¥XTY¥a][Z]¥
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AGGATTTCTCATTTTGGGCAAAGAAGACAAGAGATGGCCC
+HWI-EAS443:3:46:1376:772#0/1
abb_abbababaaaaaaaaa`ab_`ba_```a_a_^^^_^^
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+HWI-EAS443:3:46:329:1419#0/1
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@HWI-EAS443:3:47:284:1219#0/1
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+HWI-EAS443:3:47:284:1219#0/1
SYaYTa aaaY#a____]^a_[_Z¥YVWaa____]^]]`VU_
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+HWI-EAS443:3:52:606:1860#0/1
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+HWI-EAS443:3:53:139:774#0/1
^]_aaa`[aaaaabaaaaaa`baZa_[_¥a`b`P_a_a`
@HWI-EAS443:3:53:1603:832#0/1
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+HWI-EAS443:3:53:1603:832#0/1
aa[bbbbbaabba_abbabaaababba_abb`]aa`][b`
@HWI-EAS443:3:58:1713:36#0/1
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+HWI-EAS443:3:58:1713:36#0/1
aa`_`ab`a_aa]]_`a`_a_a_XT`_^aaa`_`aZV`
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+HWI-EAS443:3:5:1242:813#0/1
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@HWI-EAS443:3:5:1486:1540#0/1
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+HWI-EAS443:3:5:1486:1540#0/1
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@HWI-EAS443:3:60:440:56#0/1
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+HWI-EAS443:3:60:440:56#0/1
a`_aab_baPa][`baa`[^a`^`aVaa^^a]N]¥]`Y`^
@HWI-EAS443:3:60:85:1063#0/1
GGCAATGAGATACCCAATTACAGCAGACAAGAGAAAAGCTA
+HWI-EAS443:3:60:85:1063#0/1
aZ`Z¥Z^a_XUWX`OGY[]_YMO¥X¥aXOOVZ[_¥PRYQ
@HWI-EAS443:3:61:1701:1934#0/1
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+HWI-EAS443:3:61:1701:1934#0/1
aa]]a_a`_`]`b__^aaaabb`ab```a`^`_```^SS`
@HWI-EAS443:3:61:653:356#0/1
GGGCCATCTCTTGTCTTCTTTGCCCAAATGAGAAATCCT
+HWI-EAS443:3:61:653:356#0/1
a_abbab_a_aaa[a`aaa`aaaa]]]``^a`^`a__MZ]
@HWI-EAS443:3:62:1144:497#0/1
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+HWI-EAS443:3:62:1144:497#0/1
aba`aaaaaa`a`[aaa`_`^`_X`_`_`^[_`_]`WZ^`_`]

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+HWI-EAS443:3:65:1452:1114#0/1
ab_UHW¥P]U¥¥Z_`]¥`^ZQ[_^_]_VVY]Z_]0`^YST
@HWI-EAS443:3:66:1230:886#0/1
GGGCCATCTCTTGTCTTCTTTGCCCAAATGAGAAATCCT
+HWI-EAS443:3:66:1230:886#0/1
I¥`b`¥a¥SZ_b[abbb`[__bbaM]aTabbbbbbb¥ab
@HWI-EAS443:3:67:367:436#0/1
AGGGTATCTCATTGCCATCATCCACTTCATTCTGAGCGCG
+HWI-EAS443:3:67:367:436#0/1
¥_bUaabaZ]`_ZaZ^abUabaS`aababb`b`[UJaaa
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+HWI-EAS443:3:68:1340:1377#0/1
a_`aaaaaaa_aaa`aba`a`aa```_____a`a`_`V__
@HWI-EAS443:3:68:574:138#0/1
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+HWI-EAS443:3:68:574:138#0/1
``]a`_P_a`aa`aaaaa_`aaaa^_Z`_`aU_____
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+HWI-EAS443:3:69:1485:34#0/1
YR¥_a]Z`````^a`^b^UZ]`Y^[YHU^`Y[]NW¥__
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+HWI-EAS443:3:6:441:846#0/1
aab^^aba[[_Yba`_aaa_aVa_^_U__a^a__a^Z__^`
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+HWI-EAS443:3:71:1237:513#0/1
`[[`aabbb`¥a^_Y^aa_]¥a_¥`_`_Vaa_`¥][S`_
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CGGGGTCACCTTTCAAAGGACAAGCGGATCATCAGTCAAG
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H__RH_]OY[aab_U`ZXS`_`_W[IOJZI_KYXUIWX_
@HWI-EAS443:3:75:561:1200#0/1
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+HWI-EAS443:3:75:561:1200#0/1
[^ab`[Y`aRV¥_]a_aaa]Y¥Z_]aaaa`aaa^P_YU[
@HWI-EAS443:3:76:1493:1902#0/1
GGCCGTAACATGGTGAATAGGAATGGCCCAACAAANAGT
+HWI-EAS443:3:76:1493:1902#0/1
a`_`^a`aa__aU_^`Wa_R_]ZMPWZX_]T_¥DD[]N
@HWI-EAS443:3:77:1325:1059#0/1
GCCTTGTTGTAATTGAATACTGGAGAATTGCCTCTGAGTG
+HWI-EAS443:3:77:1325:1059#0/1
WW]VZ`aaa_YFQVZ¥__^^¥U[J[X¥¥_¥TX]V]Z]]Q[
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+HWI-EAS443:3:77:1406:974#0/1
a```]_bb`aaab_PYbbabbaaaa_aabb`_aa]a`ab`
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+HWI-EAS443:3:79:109:731#0/1
a^WLT_``aaaZY¥`a^Z]U[_aX_`a[¥`]Y¥Y^_T^aX
@HWI-EAS443:3:79:381:499#0/1
GTGCCTTCATCTGGATCTTCAGTCAATGCACCTGCTCCTA
+HWI-EAS443:3:79:381:499#0/1
aaabaaaaaaaa_aaa`a`a```_aaa`a```^``__^_
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+HWI-EAS443:3:7:1088:1996#0/1
aa`¥`b```V¥aYGX¥``¥YTVG]RU^^YVYVS_RW[WN
@HWI-EAS443:3:7:132:1735#0/1
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+HWI-EAS443:3:7:132:1735#0/1
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+HWI-EAS443:3:81:927:916#0/1
aba]aabbaaaaaaaaaaaaaaaaaba`aaaaaa`aa``^W_
@HWI-EAS443:3:82:1514:1228#0/1
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+HWI-EAS443:3:82:1514:1228#0/1
`_T_]`aS_`a_Y¥bbX¥S¥babb`baJ`ababaKbaWab
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+HWI-EAS443:3:83:229:1135#0/1
¥YG[^`^^aSa^W`U^aaa^a_U[^¥]]QW_YXXZU_RZ^a
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+HWI-EAS443:3:84:672:521#0/1
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+HWI-EAS443:3:84:813:1715#0/1
`a__aaaaaa`b_a¥a_]b0aa]a^a_`aSbaa]a``_]`
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aaba]abab`aaaa_ab]ab_a[`[_a`aaaabaa`aX]^
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+HWI-EAS443:3:85:1207:396#0/1
^P_ZZV[VZ[aZ[XY[]^¥XVPY]WR^^_^^W¥[^^^]^¥V
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+HWI-EAS443:3:86:1128:1454#0/1
]aabbb```a^^¥Q]b_bab_`ab`bbabbab`b_`YO_[

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+HWI-EAS443:3:86:1722:1163#0/1
`babbbbababaa_bbbbbGaa_abaZ_ab`aa`_`Ia`
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+HWI-EAS443:3:87:885:873#0/1
YRQ^__M[Z``bV`XV_X¥]`Z]J`^T_NQ[U`X^HG
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`aa`abab^aaa_`a`a_a`a`__`]`a__^U_`W`^^W^
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+HWI-EAS443:3:90:38:1049#0/1
abbaZ_babb_bb`_b``aa`^aaa_````a`a`¥_a]^
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+HWI-EAS443:3:92:831:72#0/1
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@HWI-EAS443:3:94:398:676#0/1
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+HWI-EAS443:3:94:398:676#0/1
aaaa`aaa]aa_aa`_`a`_`a_a```a`_a__]`TDV__^
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+HWI-EAS443:3:95:495:827#0/1
abb]abbaaaa^ababaaaba_a[aaa`abaaaaa¥_]aa
@HWI-EAS443:3:96:1082:1793#0/1
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+HWI-EAS443:3:96:1082:1793#0/1
]aZ`_b]X^``ZI`YU`^aY`_ba]`baUaX^_aa`^]]
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+HWI-EAS443:3:99:1404:500#0/1
]bK`a_¥R[VS__aaabb`_`a`^`aXXaaaa_]ZYOFJH
@HWI-EAS443:3:9:1509:657#0/1
CCGGCCATATGGCCATAATCAAAAAGTACACATCAGGAA
+HWI-EAS443:3:9:1509:657#0/1
``ba^`[bbb`bba_`baabaabaaaaGb^¥]a`^aaaaa
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+HWI-EAS443:3:9:1767:680#0/1
TTTZX_aV`TW`Z_]_SHW^L^a_``Z__UZVa`_¥ZWLL
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+HWI-EAS443:3:14:1017:679#0/1
_```abbaa`ba[aa_X]D¥baaa`aa`^a`aa]_X_¥a`
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ATTTCTTCATACCCTTCATNTACTCTTATTTTCAGTGTTT
+HWI-EAS443:3:17:1534:913#0/1
¥Va^^^_LW¥X0¥``Y]UD0a`]a^aV`]`aTU_V`Q`a
@HWI-EAS443:3:17:549:830#0/1
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+HWI-EAS443:3:17:549:830#0/1
aaaaaVaabaa¥D[aaaaaaaa`aaa```aaa``aa__U`^
@HWI-EAS443:3:2:995:751#0/1
CACCCGTTTTCGTTTNATTACCAACTACGTCCCCTTGC
+HWI-EAS443:3:2:995:751#0/1
aa`_ab^_aaZa`aZDRba``Y``OaRa_Ha_X_R¥^_¥0
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GAGAGGATTTCTCATTTNGGGCAAAGAAGACAAGAGATGG
+HWI-EAS443:3:39:1234:1629#0/1
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@HWI-EAS443:3:46:1262:1609#0/1
AGGCCGNAGACATATGCAAGGCAGCAATAGGGTTGAGGAT
+HWI-EAS443:3:46:1262:1609#0/1
aaa``]DY¥_aaaa_¥^`[]````^¥Z`[__ZP]`]a]YY
@HWI-EAS443:3:99:305:586#0/1
CTCCGTTTTCGTTTCATTACCAACTANGTCCCCTTGCC
+HWI-EAS443:3:99:305:586#0/1
``aSa^aa_]_aY``Zab¥]`^bY¥[ZYD^aa`a```a^`
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+HWI-EAS443:3:23:1433:868#0/1
XYOR`TS_J^^a`bX¥``aXQW]PVJV¥^BBBBBBBBBBB
@HWI-EAS443:3:24:860:980#0/1
GCCCCTTTTCGTTTCATTACCAACAGTACGTCCCCTTGCC
+HWI-EAS443:3:24:860:980#0/1
`ba^b`TT_bU`T]Q]G]a_aUaUbg_`H^^XVZUa[LFZ
@HWI-EAS443:3:27:800:1032#0/1
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+HWI-EAS443:3:27:800:1032#0/1
_Y¥aa_bba^ba``aa¥[_``aa_aYD0¥J]BBBBBBBBB
@HWI-EAS443:3:29:447:778#0/1
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+HWI-EAS443:3:29:447:778#0/1
a^aaa__`a`a_a`]____a`¥[^VY[^¥^_`Z¥^]]^_]]
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+HWI-EAS443:3:32:559:1809#0/1
J_a[YU_``[^a^_¥VT][[a``][`J¥_ZUVSGUGZ[YV
@HWI-EAS443:3:33:1536:677#0/1
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+HWI-EAS443:3:33:1536:677#0/1
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+HWI-EAS443:3:33:1760:1776#0/1
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+HWI-EAS443:3:34:642:1037#0/1
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@HWI-EAS443:3:37:821:637#0/1
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+HWI-EAS443:3:37:821:637#0/1
a¥a]a`aa__a`aa]__a`U`a`abb¥a`LF_bab]TX`a
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+HWI-EAS443:3:39:1207:1358#0/1
a_TTIV^W`^VKX^aX`X¥P[Y¥`_Va¥`ZX`BBBBB
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+HWI-EAS443:3:3:1311:237#0/1
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@HWI-EAS443:3:40:1045:2040#0/1
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+HWI-EAS443:3:40:1045:2040#0/1
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+HWI-EAS443:3:49:1154:512#0/1
XN¥b_]a^___a]aaaaaba_]a]aa`RZJZ¥YZ]¥]¥
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+HWI-EAS443:3:50:1264:1953#0/1
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@HWI-EAS443:3:50:230:739#0/1
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+HWI-EAS443:3:50:230:739#0/1
ab`aaa¥YUabaaV]bb^H_V_Z¥[Taab^]_WWaaYaaZ
@HWI-EAS443:3:50:927:273#0/1
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+HWI-EAS443:3:50:927:273#0/1
^`b[bba]``ab¥b_b_bU^^S__Z¥_a__MG_Z`aZa^`
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GATGAATACTCCAGCACGGAGAGAGTGGTAGTGGGTATTT
+HWI-EAS443:3:51:663:59#0/1
abbaabbaaa_a```aXba^b`b_^OYa]BBBBBBBBBBB
@HWI-EAS443:3:58:722:1141#0/1
GGTCTGCTGTAATTGGGCATCTCATTGCCATCATCCACTT
+HWI-EAS443:3:58:722:1141#0/1
`___a^a_Z^`aaaaaaaa_a`a__aaa]a^_^`^]
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@HWI-EAS443:3:80:1628:643#0/1
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+HWI-EAS443:3:80:1628:643#0/1
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+HWI-EAS443:3:81:1767:477#0/1
a][^]bHaaUa__Qaa___Y`ZXWSUWWX_`]UTPRXHUU
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+HWI-EAS443:3:86:1333:1396#0/1
KabaVb^abb¥_bVY_V_`abaab`Kaa¥__¥aa^a^a[Y
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+HWI-EAS443:3:87:1108:1388#0/1
S_bbbbb_babbbbbbababbabbabbaa^PYZfZ`bQW
@HWI-EAS443:3:91:1553:1433#0/1
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+HWI-EAS443:3:91:1553:1433#0/1
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@HWI-EAS443:3:92:163:1030#0/1
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+HWI-EAS443:3:92:163:1030#0/1
H[¥[VT___Q_W[]ZXXX[aaUaab`YWHHH^baaaZaZY
@HWI-EAS443:3:96:195:1993#0/1
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+HWI-EAS443:3:96:195:1993#0/1
VUU_Z^`Raa^VTaVIbRbaa___`a`a^VF¥[VTGTLTB
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+HWI-EAS443:3:96:927:1496#0/1
aU`bN^aaaa_`aW```b¥JU`_a]_`_UGF]V^¥[]Y_
@HWI-EAS443:3:97:595:1518#0/1
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+HWI-EAS443:3:97:595:1518#0/1
^Y^OJQ]ZR_Y[KWQ¥¥WUWK¥ZR^LWYZGX¥TYXYaZUN
@HWI-EAS443:3:10:1041:485#0/1
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+HWI-EAS443:3:10:1041:485#0/1
SYZPY]_a_aa]]^X]aa[a__[[LQ_RKDRa_a[OW[H[
@HWI-EAS443:3:10:159:806#0/1
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+HWI-EAS443:3:10:159:806#0/1
[[Q]]`T^aa`^aa^^`]aaaaY`a`]a[BBBBBBBBBB
@HWI-EAS443:3:10:372:166#0/1
CACCGTCCATTATTCTTGTCTGCTGTAATTGGGTATCT
+HWI-EAS443:3:10:372:166#0/1
aYZ`b]a¥Y`__`[X_a_]X^`TY]]OPT[^Z^WFXQX¥
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+HWI-EAS443:3:10:90:227#0/1
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@HWI-EAS443:3:11:129:1540#0/1
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+HWI-EAS443:3:11:129:1540#0/1
R]__bbb[_a__abbaVSZ_a¥]¥_^Zb`_WUb`_aa`a
@HWI-EAS443:3:11:1366:2030#0/1
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+HWI-EAS443:3:11:1366:2030#0/1
`b`baaab`THV``[WW^`^J^[_a]YF]X_XUIN`_]
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+HWI-EAS443:3:11:1784:773#0/1
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+HWI-EAS443:3:11:253:823#0/1
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@HWI-EAS443:3:12:1242:503#0/1
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+HWI-EAS443:3:12:1242:503#0/1
`bb_abbabaaaaa_abaaaa`a^`a`^`a`aa__aZ¥
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+HWI-EAS443:3:12:1246:175#0/1
aaa^`aaaZ`__^]`a`¥[X^`X¥^Z^]]XXW`Y¥XUB
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GAGGATTTCTCATTTTGGGCAAAGAAGACAAGAGATGGCC
+HWI-EAS443:3:13:1233:1658#0/1
¥[`^`a`_`_`[`ba¥[Y`bb^a]_`^^`aba[]a`^`SY^
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AAGAGAGTCTGCTGCTCCTGAGAGGATTTCTCATTTTGGGC
+HWI-EAS443:3:13:146:769#0/1
aba[aaa`abbaU_S_aaa]`T_aTY``]aaaa`a__a]
@HWI-EAS443:3:14:1142:1483#0/1
TGCGTTTCACTGACTTCTTCGGGAGACAATAGTACGGTTC
+HWI-EAS443:3:14:1142:1483#0/1
Uaab`a``¥¥_b]a`])aa]Z]aaZa_a`]¥TG^GUDI
@HWI-EAS443:3:14:245:850#0/1
CATCCCCCTCATGTACTCTTATTTTCAGTGTGGAGGTT
+HWI-EAS443:3:14:245:850#0/1
]b¥K^^bbb^Ub_abb]abb_bab[babababbbT¥a`_`
@HWI-EAS443:3:14:70:1572#0/1
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+HWI-EAS443:3:14:70:1572#0/1
TQ^`YTP¥[SO```a¥[¥¥¥Z¥¥S^SVaSUR`b]a``RI
@HWI-EAS443:3:15:1246:1075#0/1
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+HWI-EAS443:3:15:1246:1075#0/1
Xa^^aabaaXX`aba^¥aa¥M¥^[`aa`b[a`^`][TZN

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+HWI-EAS443:3:15:1298:739#0/1
]bba^aba_`a``_Z0]b`Y``]aY]aaabV`¥a`¥a`Y^
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TGCTTTTTCGTTTCATTACCAACTACGTCCCCTTGCCC
+HWI-EAS443:3:15:1440:1063#0/1
^T_baab__[^^a`]aa^WV_[VZY[``_`V¥¥YY¥Z]WO[
@HWI-EAS443:3:17:100:1252#0/1
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+HWI-EAS443:3:17:100:1252#0/1
aI_RU`_]_[W¥M]R[Z`ZZY_S¥¥BBBBBBBBBBBBBBB
@HWI-EAS443:3:17:1049:952#0/1
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+HWI-EAS443:3:17:1049:952#0/1
ab`a`ab¥baaba`b`_aaa`a^^a`a``_a_``^a_a``
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GGCCATCTCTTGCTTCTTTGCCAAAATGAGAAATCCTC
+HWI-EAS443:3:17:1136:1134#0/1
`_aaabaaaaa_aaaaaaaa_a^a`aaaa````]a_
@HWI-EAS443:3:17:1748:284#0/1
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+HWI-EAS443:3:17:1748:284#0/1
Z`bbaaa^HZVabab^a]`[]Z^YaWaWPVYb_aTY^aTO
@HWI-EAS443:3:18:397:1336#0/1
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+HWI-EAS443:3:18:397:1336#0/1
a``^_`a¥`````aba^^^_^^^a^ab_aa_aZ]`VZaa^
@HWI-EAS443:3:19:373:165#0/1
GAGGATTTCTCATTTTGGGCAAAGAAGACAAGAGATGGCC
+HWI-EAS443:3:19:373:165#0/1
¥[a`T]]¥b^_a_Z¥^^^YY]XH]`[``_]U`ZZXXP[¥R
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+HWI-EAS443:3:1:1378:1494#0/1
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+HWI-EAS443:3:1:1442:1104#0/1
_b^D^aabbba`bbabbaba_b_aaaa¥^`aX_a_Y_`aB
@HWI-EAS443:3:22:859:1057#0/1
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+HWI-EAS443:3:22:859:1057#0/1
aYb_]_a_a_b_aaaa¥][¥Z¥_aa_[``^_]V_XDMR_Y
@HWI-EAS443:3:23:1722:1394#0/1
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+HWI-EAS443:3:23:1722:1394#0/1
abbaabbbabaabbbaaab`aa`aa`ba^a`a`a`_a^]Z
@HWI-EAS443:3:23:1752:112#0/1
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+HWI-EAS443:3:23:1752:112#0/1
aaab`bbb_b_aabaaabU[X_a`^`^`]^`a^_¥XT`_ZU
@HWI-EAS443:3:23:600:556#0/1
GGCCATCTCTTGCTTCTTTGCCAAAATGAGAAATCCTC
+HWI-EAS443:3:23:600:556#0/1
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@HWI-EAS443:3:24:149:453#0/1
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+HWI-EAS443:3:24:149:453#0/1
SP¥^^`bbY_Y`]ba]`_abb]abab`¥ab`^^a`^`a`a
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+HWI-EAS443:3:25:1387:511#0/1
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+HWI-EAS443:3:25:277:843#0/1
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@HWI-EAS443:3:26:1752:906#0/1
GAGTAAGGATGGTGGACATCCTTAGACAGAATCCAAATGA
+HWI-EAS443:3:26:1752:906#0/1
a_[¥abbbXaa_Xba`_ba__`^a`^aa`^____`Ga]^
@HWI-EAS443:3:26:916:408#0/1
GTGGACAGGGCCGAAGGTACCATGTTTCAACCTTTCAACC
+HWI-EAS443:3:26:916:408#0/1
`I^a¥_]Z]`_`Z[^YaR^¥]Y¥^W_]____[]]^ZV`WX
@HWI-EAS443:3:27:208:1868#0/1
CGGGGCCACCATCAAGGGAGCAATTTTACAATCCTGGAGC
+HWI-EAS443:3:27:208:1868#0/1
a____`ababbb`aa_aaabaab^a_baaaaaaaaa]]_`Y_
@HWI-EAS443:3:27:87:681#0/1
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+HWI-EAS443:3:27:87:681#0/1
aa^a]aa`^`^`V[ab]a[^a`^a^`]a_aa`aaa¥]`_
@HWI-EAS443:3:27:969:650#0/1
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+HWI-EAS443:3:27:969:650#0/1
aa`aababbaaba^`baaaa``aaaa_a`aaaa____]`
@HWI-EAS443:3:28:1405:196#0/1
AAATGAAGTGGAGATCTAATGTCGCAGTCCCGCACTCGC
+HWI-EAS443:3:28:1405:196#0/1
aa`abb`^`^`aabaaa[baaaaY]```a[^ZW`V^T_Z[W
@HWI-EAS443:3:28:1505:503#0/1
TCGCACTCAGAATGAAGTGGATGATGGCAATGAGATAGTC
+HWI-EAS443:3:28:1505:503#0/1
a¥`VZ¥U¥]`a[a]S^aXaa]a`TQ][SX]^¥P[XY]^PU
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+HWI-EAS443:3:28:502:1973#0/1
`Yaa`^`a¥^`¥babaT`aabbb]aaa^Y^]aaWba^[]Y

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[aab_bbbba_b]bbbb`b`ababaa`bb^b_`aaa_a^a_
@HWI-EAS443:3:28:668:1192#0/1
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+HWI-EAS443:3:28:668:1192#0/1
¥_¥_b¥^aS_^a`ZZ_bb_aV`aSa¥_]a`aaaWZ]0^
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abaabbbbbbb`[baba`Zaa]a__U_a`a^aaa_]^Za`
@HWI-EAS443:3:29:1398:394#0/1
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+HWI-EAS443:3:29:1398:394#0/1
abba`_bb`aa__^`aaaa`Za^^a_Z__a^aa¥`_Z_
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+HWI-EAS443:3:2:1626:185#0/1
aabababab`a`b`_`¥a¥ab`_Y]aX_a^Y_^[_Y^_AY
@HWI-EAS443:3:2:708:980#0/1
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+HWI-EAS443:3:2:708:980#0/1
^YZW^b¥¥^¥`a`aS0_aaaVa_^_a]Sa^_^`_]a^a
@HWI-EAS443:3:30:332:1248#0/1
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+HWI-EAS443:3:30:332:1248#0/1
a¥V`aaba]X]_abaab`aa`aW`b`_`ba__^_a[`^S]
@HWI-EAS443:3:30:508:1039#0/1
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+HWI-EAS443:3:30:508:1039#0/1
T_aZT[XZ]SZ¥^`a[^b]X_a^`^^^]ZV¥Ya`_HT`P
@HWI-EAS443:3:31:1364:864#0/1
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+HWI-EAS443:3:31:1364:864#0/1
`abb^Y`¥Z`a]aba]^_a]¥]]]]`a^Q`aa`SZ_ZL
@HWI-EAS443:3:31:458:867#0/1
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+HWI-EAS443:3:31:458:867#0/1
Y_W`_`bbaZYaaaa]_Y_ba[_Z^^]aaY`a_WY`b¥
@HWI-EAS443:3:33:1020:763#0/1
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+HWI-EAS443:3:33:1020:763#0/1
XQ_VV^W[[aa__`¥]R¥^RP[^STLPH]^VQU¥ZSS[^B
@HWI-EAS443:3:33:1354:521#0/1
ATCAGTCAAGAAAGAAGAAGAGTGCTAACGGGCAATCTC
+HWI-EAS443:3:33:1354:521#0/1
`b_U_a`^^aab]Z]_¥^YV`¥[P^X_]RWURZ`¥UP¥^
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+HWI-EAS443:3:33:462:869#0/1
ab`b_S^``ba`bbab`b_Zab]a_Z_]^Z^¥]_Y]N¥^
@HWI-EAS443:3:33:954:1692#0/1
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+HWI-EAS443:3:33:954:1692#0/1
aa_`abba_aa[_aa`baa`aa`_`__Xa__^]`a^R_
@HWI-EAS443:3:34:1236:415#0/1
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+HWI-EAS443:3:34:1236:415#0/1
abbaa^bb^b__aa_^`bb`aaaaUY^_a`aa^^]_V^P_
@HWI-EAS443:3:34:1373:160#0/1
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+HWI-EAS443:3:34:1373:160#0/1
abbaaaaaba_`abaaaa¥aaaaa`_a`````^_^Z^XXX
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+HWI-EAS443:3:34:80:1870#0/1
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@HWI-EAS443:3:35:1398:637#0/1
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+HWI-EAS443:3:35:1398:637#0/1
a¥[`aaP]`Zaa`aZWTba[a`aa^`aQaa__a^]`_`0_
@HWI-EAS443:3:35:1667:677#0/1
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+HWI-EAS443:3:35:1667:677#0/1
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+HWI-EAS443:3:36:1100:1428#0/1
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@HWI-EAS443:3:36:1183:1125#0/1
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+HWI-EAS443:3:36:1183:1125#0/1
`[_`SU_TZ^UU]]`ZX¥a^^YaVTSY]OXJZSFGXWGNU¥
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+HWI-EAS443:3:36:1201:1206#0/1
X`[_VaUS__`b]¥ZWVb`bba_U_^TZ`_`_]UWb_S¥00
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+HWI-EAS443:3:36:720:962#0/1
a_^_aYF[aa`]`aaaa`a`^U`aba`a``V[]`_]`]]_a

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+HWI-EAS443:3:36:882:65#0/1
`bba`_¥a_]a`aaa^aaaa`]WU`Z¥^`a]^_]Z]YX
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+HWI-EAS443:3:37:194:1727#0/1
aa`bY`b```babbabab`aaab`baYabXGW]_aa__a]
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+HWI-EAS443:3:39:1136:1309#0/1
]aYM[aa_b]_baa`ab_Q¥[¥I`abaaa]]¥[_a^VUGS
@HWI-EAS443:3:39:1595:1323#0/1
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+HWI-EAS443:3:39:1595:1323#0/1
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+HWI-EAS443:3:39:789:405#0/1
aaaZZ_aaa``aaaa`a`aa_`aa]W^__`[Z^__Z]^X
@HWI-EAS443:3:3:138:751#0/1
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+HWI-EAS443:3:3:138:751#0/1
¥`bIbba`S¥aaaa`a¥Xa¥a[[]_a_aaY`b^b`_b^GX
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+HWI-EAS443:3:40:619:1643#0/1
_`]a]]aabS]¥`_aaa]aa`aa][`^aa_]_a]aRW_``
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+HWI-EAS443:3:42:1172:1013#0/1
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+HWI-EAS443:3:42:1417:1849#0/1
aa`¥`bbbabaaab]]_aaaa^aaYaa`^`_a`a`a^a`_
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+HWI-EAS443:3:42:1422:1565#0/1
¥NV[R¥_T_``^¥Y`Y_aZa_]`_]`X]a`¥XR_]¥[____
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+HWI-EAS443:3:42:647:1479#0/1
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+HWI-EAS443:3:42:943:1276#0/1
R____^`aaa^abbbb_bbab`ba¥abbb^b`^bb_abb
@HWI-EAS443:3:43:1296:815#0/1
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V]`HV`a[^`^`Y`_aV[K^]U]W[aaX[N[XQ[T]^W^W
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+HWI-EAS443:3:44:1775:1271#0/1
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@HWI-EAS443:3:44:366:208#0/1
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+HWI-EAS443:3:45:399:1053#0/1
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_¥_RTVaaaa`_aa__a`_aaZa``aaY]`_`a_aa_V]UQ
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+HWI-EAS443:3:45:944:1802#0/1
S[]_¥I¥S]a`bZb^``aX[bbbb_ZWb`aaab_a]bX`U
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+HWI-EAS443:3:46:1513:375#0/1
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+HWI-EAS443:3:46:1775:967#0/1
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@HWI-EAS443:3:47:62:93#0/1
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+HWI-EAS443:3:47:62:93#0/1
aaaa_aaaaa_]aaa`_`_^_a^`_]_]_]_¥Y_ZTR
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+HWI-EAS443:3:48:1692:1113#0/1
aba`_`aaba`]aa[^¥^`a[a__`_¥^¥`_`_^[^Z^
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+HWI-EAS443:3:49:765:130#0/1
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+HWI-EAS443:3:4:1554:62#0/1
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+HWI-EAS443:3:4:682:239#0/1
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+HWI-EAS443:3:51:1616:1945#0/1
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+HWI-EAS443:3:53:661:1547#0/1
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+HWI-EAS443:3:53:667:71#0/1
Xa_¥¥_R__bbbbZ_bbXb`Zaa¥ab`[[[¥V_bb]^`b
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+HWI-EAS443:3:55:802:674#0/1
Ka`bbb`bb`Ybab^_bb`bb`b_b_[S¥a¥I¥OHYHGXH
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+HWI-EAS443:3:57:1157:1448#0/1
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¥K[_VU[_Z_V_]PZUMFYT¥BBBBBBBBBBBBBBBBBBB
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+HWI-EAS443:3:58:1449:204#0/1
aaa`a`baaYaa_a_aaa`a^^`¥^^`___]a_^__¥`Z`
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+HWI-EAS443:3:58:1598:1554#0/1
`_`[Saaa^a_]a_SZ[[_`__^`_]`a_X_^XW`]]]
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+HWI-EAS443:3:59:1106:1992#0/1
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+HWI-EAS443:3:59:1165:141#0/1
[J]]]Z^¥Z_`Ya_X_]aaaa¥X]^]a_S[VNPGQQR
@HWI-EAS443:3:59:1505:114#0/1
GTCAAATGTCCAAGCACATCCCGCATTGCTGGAAGAGT
+HWI-EAS443:3:59:1505:114#0/1
aZ_a```a_Z[¥_¥_¥`W^_VVY_V¥[Y[_WU^¥WPRWUT

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+HWI-EAS443:3:59:350:1665#0/1
_`baaabaabbba`ab_a`b^abaa]aaab]¥__^T_XTS
@HWI-EAS443:3:59:565:1426#0/1
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+HWI-EAS443:3:59:565:1426#0/1
__RXZ`b_Z_`^RTQ[0_`]abb]a`^¥[_T`R`a`XTQ`
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+HWI-EAS443:3:59:586:1342#0/1
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@HWI-EAS443:3:59:653:416#0/1
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+HWI-EAS443:3:59:653:416#0/1
aaYa_`_]_aa[][_V_]aZ[_`]_aW_¥`aVZ[^_VZ]OZ
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+HWI-EAS443:3:59:701:1387#0/1
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+HWI-EAS443:3:59:830:1889#0/1
Va_aaaRaabb[`S[Ua`_`a`bYab_`_`¥X_Z_JFON[
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+HWI-EAS443:3:5:1337:1285#0/1
a`aaa_aa_a_```a_`^_^^`_`_a]`^_^^_X^`BB
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+HWI-EAS443:3:5:1385:424#0/1
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+HWI-EAS443:3:60:169:1856#0/1
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aaa`^^abaaaaaba`baaaa__aa_____a[`_¥]_]__
@HWI-EAS443:3:60:743:751#0/1
TGGCAATGAGATACCCAATTACAGCAGACAAGAGAAAGCT
+HWI-EAS443:3:60:743:751#0/1
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@HWI-EAS443:3:62:94:1735#0/1
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a`ba_a`a`aa^aa_]aa]_S]^[]`[]^R[^`a__
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+HWI-EAS443:3:64:680:1401#0/1
a]``a^Y_``]^_]¥aZ]]aY``^a^[_^Z[¥^ZVYLQV
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+HWI-EAS443:3:65:125:1081#0/1
^N_a^^bba`aa_a`aaaa_a]abaXa_`a^`_^`^`_¥

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+HWI-EAS443:3:65:1395:81#0/1
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@HWI-EAS443:3:65:1400:1319#0/1
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+HWI-EAS443:3:65:1400:1319#0/1
`_V¥Q¥X^V`^a_]Y]_¥aaYY¥^^]_Zaaa^[_Y_W]]
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+HWI-EAS443:3:65:1722:640#0/1
_`__Y_`aaa^aa]]Y`^`_0Y]`X]_Z¥`Ma^]a_a_]`
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+HWI-EAS443:3:66:75:40#0/1
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@HWI-EAS443:3:67:1110:346#0/1
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+HWI-EAS443:3:68:1552:1491#0/1
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+HWI-EAS443:3:68:704:672#0/1
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^```_aabaa^^_aabb`aa`aa`a`_a_aaa]Z_a_`
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_bbbaZUaVV]]ababa[aaZb[Y]S¥Y¥Xbaa``¥]WZ`
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+HWI-EAS443:3:69:759:1246#0/1
aaU_b^WR¥a¥IXa`b`¥`a]]Y]`a`^Y`a`_aZ]LY`
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+HWI-EAS443:3:6:307:1414#0/1
ab^`aa[``aabaX]`b_]baaa`a^a[]T]baa`_`^a
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+HWI-EAS443:3:70:1475:1709#0/1
``[¥X`aaa`_a^Y`[Y^bWabaaabaaaaa^a]_a[U
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+HWI-EAS443:3:70:24:1880#0/1
Z^`[aaabaabb_a`U^aaa[L¥aaaaaV^`]aYVSa_
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`b_a`aaa¥]aa_a`W`____`][Za^[^Z^__]¥UUWW
@HWI-EAS443:3:71:848:200#0/1
CAAAATGAGAAATCCTCTCAGGACAGCAGACTCCACATTC
+HWI-EAS443:3:71:848:200#0/1
a^[`a]MYb^__¥RH[¥V_`a`¥R]^¥abY[_`_^0^a_]`
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aaa`bbaa`_`]a^Y`_a^`__^¥`^__]`_a_ZZ^S¥[
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+HWI-EAS443:3:73:1320:1911#0/1
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+HWI-EAS443:3:74:522:93#0/1
Y¥V]¥aa¥]^_b`ZZ_]a]^aaYa_`]R¥a_``aY[]YSR
@HWI-EAS443:3:74:614:1640#0/1
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+HWI-EAS443:3:74:614:1640#0/1
a``aXV`_X_]`_ba_baabbbbaa`aaa`aa`_b__a__
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^aab]¥`b_aa`_b`abaa`[_`_abaaa``Ya¥aXa__Y
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+HWI-EAS443:3:75:1064:1723#0/1
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+HWI-EAS443:3:75:1113:830#0/1
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+HWI-EAS443:3:75:1549:1984#0/1
a__]_¥T]``aaaU]a_R_aaa_]__VR[_P_Ra^a[0¥`
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@HWI-EAS443:3:77:1231:645#0/1
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+HWI-EAS443:3:77:1231:645#0/1
aaYDWaa`Vb`_¥YQ¥a_]Z_]a¥a__aa_T`^aU^T]_
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+HWI-EAS443:3:77:1436:440#0/1
aab^NLO_]`^ZU_^JUWYXUURZ^[_X_]YS_¥_RSPUR
@HWI-EAS443:3:77:1647:263#0/1
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aba_Xaaa^a`a]W_aa`_aa`____a^W^^____`¥^]]^
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`abaaaaaaaaaaaaaaaaaaaaa`^`aa`_`__Y_^__
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]]ba_`aaaaabaaaa`a`^aaaaaa^aaa`__`__]
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a`abbabbbabbX``baaVbb^Z^`aaaa]a_`^`^`_T
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aa_`_aaZaaaN_X¥b`U_Ya_baZ[abS`ba¥Ua]Wa¥R
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+HWI-EAS443:3:79:976:1774#0/1
a_`^^`ZbaaaYZ¥a`_]_[aX¥``_aa_]__`a_`_Ta_
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+HWI-EAS443:3:7:1278:715#0/1
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+HWI-EAS443:3:7:1647:1840#0/1
]a```aYZJS^ba^PT[]_`aaU_¥UXH_a]_`_]ZKSaB
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+HWI-EAS443:3:7:564:603#0/1
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+HWI-EAS443:3:80:550:2007#0/1
_a_a^```Y`aaa`^_ba`]aaaabaa_`a`Xa^a`_Y^a
@HWI-EAS443:3:80:613:745#0/1
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+HWI-EAS443:3:80:613:745#0/1
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+HWI-EAS443:3:80:92:710#0/1
`baaZ^baaa]Y`aaa_Y]aaaa¥`¥a`a_`^_]_[XXU^_
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+HWI-EAS443:3:81:230:1484#0/1
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+HWI-EAS443:3:81:474:957#0/1
aa_H`b_abaab`aa^[`aa_aaZ]a_`aa_Ya]]Y_^]
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+HWI-EAS443:3:81:538:673#0/1
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+HWI-EAS443:3:82:374:1708#0/1
a[Ua¥¥]]_aa]aaaabaa_`[]X^```_aa_Y__X`Z[`
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+HWI-EAS443:3:83:532:301#0/1
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+HWI-EAS443:3:84:454:1821#0/1
a`[a`aaaQY_¥`^¥_¥W___¥¥Y]¥_a_WZ^YaaaZW_
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+HWI-EAS443:3:86:1001:1618#0/1
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+HWI-EAS443:3:86:1529:265#0/1
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abaaaabbaaaabaaaab`aaaa`aaa_a_aaaa``a¥a
@HWI-EAS443:3:87:576:267#0/1
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+HWI-EAS443:3:87:576:267#0/1
I¥bb¥¥TaU_¥^aa`b`aVaV¥U_SHXH[_]_Zab¥Y`Ua
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aaa`]`aa_aaaaaaaaa`aaY``_```Z_^`__[_^^
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GAATGATTTCTCATTTTGGGCAAAGAAGACAAGAGATATG
+HWI-EAS443:3:88:969:85#0/1
aa`aaabaa`aaaaaaba`__a`_a```]a_a_¥_]_
@HWI-EAS443:3:88:999:226#0/1
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+HWI-EAS443:3:88:999:226#0/1
aa_a`_ba`a^`_]a`a`a^`_Z^`_Z_____``^_S_
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@HWI-EAS443:3:8:1523:1520#0/1
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+HWI-EAS443:3:8:1523:1520#0/1
a`^Y`aaaY]Y^_a_]_`Z___a_]_^Z`^_]_]X^YVW
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+HWI-EAS443:3:8:803:1741#0/1
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+HWI-EAS443:3:90:1107:983#0/1
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+HWI-EAS443:3:91:1350:685#0/1
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+HWI-EAS443:3:92:1345:438#0/1
ab`_]a[_]b_baabb_^abbb]_ba^a`]^`aaa_F¥`Y
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+HWI-EAS443:3:93:1299:401#0/1
aba`a`bb`aa`_] [aa_aaa¥_a0``__^]__a``]^`Wa
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+HWI-EAS443:3:94:1739:1396#0/1
aa` [`baa¥aaaa`baaaa_a`ba^a^ab`]^`¥`_aaaZ¥
@HWI-EAS443:3:94:32:67#0/1
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+HWI-EAS443:3:94:32:67#0/1
T`_TUG[OQO_V^_aa]^U¥_^^V^^a_[M[`NLTP¥YUU
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+HWI-EAS443:3:94:615:1999#0/1
a`V[a_[ab`aab_aaaaaabaa``bb_a`aaaa`__^`
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+HWI-EAS443:3:95:1684:67#0/1
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Y¥WT]_U[ba`¥Ub_bb[SPS][a]aa_bP]^`[bbOT`YJ
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aba`¥XXZZb[a¥¥F[^_a_Y__a[`]__ZT[]¥Z¥T]RP
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+HWI-EAS443:3:96:671:1094#0/1
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+HWI-EAS443:3:97:97:227#0/1
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+HWI-EAS443:3:98:1000:1251#0/1
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+HWI-EAS443:3:99:1765:1430#0/1
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+HWI-EAS443:3:99:443:332#0/1
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+HWI-EAS443:3:9:45:1872#0/1
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+HWI-EAS443:3:100:136:1720#0/1
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+HWI-EAS443:3:10:133:459#0/1
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+HWI-EAS443:3:10:495:1045#0/1
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^`_Z]_`Y_W¥SZZ``ZF[VVNQ[ZV_XY¥VGU_[UNSQS
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+HWI-EAS443:3:10:761:665#0/1
aa`Yaab]^bY]_baaaaaaaaa`aYZa_a_YVR^GS^ZT]
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+HWI-EAS443:3:10:789:1633#0/1
`Zba`_W¥a^_V]a]_WM^]_a^]]Ua`U^S^]S^SS]_S
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+HWI-EAS443:3:11:1000:349#0/1
VXa_KQRaba`^Tbaa[Xabba^UYab_]MUKVW¥H¥` [
@HWI-EAS443:3:11:1477:1855#0/1
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+HWI-EAS443:3:11:1477:1855#0/1
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+HWI-EAS443:3:11:560:1679#0/1
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^MN_UaaU`aT_X^Q¥XX`_L]V_]`]¥FOYG¥TN^X]B
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¥¥`¥]^_`_XX^a_X`_aa`X[Q`aUa^Q`XR[WVMVY
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`aaXNRRaa¥¥_¥a_XW`¥^ab¥^`_aa[ZUZQXN[P^ZY
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+HWI-EAS443:3:12:383:967#0/1
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+HWI-EAS443:3:12:561:1520#0/1
R_`a¥_^_ZZ]abXVa_aJ^aba_^b[ZFUYXaa`abaU
@HWI-EAS443:3:12:636:298#0/1
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aaa`aaW_b_aaaaaZ_a_a_`a]_`^_OY___Z]]]]^
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+HWI-EAS443:3:12:690:246#0/1
aaa_¥aaaa_____]]_`_^Z_`¥`_Z^]_VLP^Z[]]_N
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+HWI-EAS443:3:13:1331:370#0/1
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+HWI-EAS443:3:13:891:728#0/1
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+HWI-EAS443:3:14:1303:1306#0/1
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+HWI-EAS443:3:14:1414:997#0/1
abba`aa_`__`¥_]_Y¥[^^^0^_[a_`¥_````[^ZU]
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+HWI-EAS443:3:14:1779:1627#0/1
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+HWI-EAS443:3:15:1059:1774#0/1
a^`Xaa`b_bZS^a`a_U`T_Ya`____`^_a]]^^^^¥[
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X¥ab¥G_ababWT_bZ^bYVT[T¥W^`T`_b^T`abI^__
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VVVb^a__¥ZXHR[_WX¥¥¥X_`X_HU][F[ZK]SH_GX^
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_¥YX]]]`S_I¥aSRP_^ZN¥aa[`UaURZ¥JDUQ_aTP`
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+HWI-EAS443:3:16:1198:1051#0/1
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+HWI-EAS443:3:16:1718:455#0/1
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+HWI-EAS443:3:16:1754:1615#0/1
a`^¥bb__VTa^_Zaaa^T¥S`a`RKU_]`QF[X_]`a¥
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+HWI-EAS443:3:16:629:1940#0/1
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+HWI-EAS443:3:16:815:704#0/1
^^_^_¥^_]baaYb]V`Y`bUTELaSa_`W`^`_[OXU[^
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+HWI-EAS443:3:17:572:1068#0/1
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+HWI-EAS443:3:18:557:1522#0/1
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+HWI-EAS443:3:18:792:1409#0/1
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+HWI-EAS443:3:18:82:1625#0/1
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+HWI-EAS443:3:18:94:797#0/1
a`b^a`aaa^[_a^¥aaa_a_aaaa`a_aaa^YUa____
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+HWI-EAS443:3:18:999:2026#0/1
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+HWI-EAS443:3:19:1580:674#0/1
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+HWI-EAS443:3:1:1013:1823#0/1
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+HWI-EAS443:3:20:1149:1606#0/1
a__aaa_aRa]M` `TW__`a`]_^¥_GZUZY¥Q¥W_U_Y¥
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+HWI-EAS443:3:20:54:1428#0/1
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+HWI-EAS443:3:20:68:1945#0/1
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a`ZXW]Y^`YT]_aW`a`_aYYa`_V`_¥`_]`^X_]`^W
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+HWI-EAS443:3:20:912:837#0/1
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+HWI-EAS443:3:21:1210:496#0/1
aba]^ba`a_aaaba^aaa^_`^X][_]^G`__XZ^^]]V
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CAGGGCCGAAGGTACCATGTTTCAACCTTCAACCTTTTC
+HWI-EAS443:3:21:50:1125#0/1
aa`^`^`a[a][U]^_a_a]`_a`ZX`^]`^a¥V¥^^^][
@HWI-EAS443:3:21:843:1758#0/1
AAAAGAAGTCTAATGTCGCATTCCCGCACTCGC
+HWI-EAS443:3:21:843:1758#0/1
]¥¥¥_¥_a`¥a[`aaW__^_^]]^]^^`a`_ZM¥]^S¥N¥
@HWI-EAS443:3:22:1045:1391#0/1
CTGCCTTGCATATGTCTACGGCTTGGTCCTCAGTTGGATT
+HWI-EAS443:3:22:1045:1391#0/1
aSL^_Y¥TVQRN`XXZTBBBBBBBBBBBBBBBBBBBB
@HWI-EAS443:3:22:1420:1489#0/1
GGACGTAGTGTGGTAATGAAACGAAAACGGGACGCTAGC
+HWI-EAS443:3:22:1420:1489#0/1
Q_NR_[R[NZX[UV^RZTWWZXR]UG^LRRTUWOGYYFLF
@HWI-EAS443:3:22:1524:1658#0/1
AAAAGTTGAAAGTTGAAACATGGTACCTTCGGCCCTGT
+HWI-EAS443:3:22:1524:1658#0/1
aba_`XW_^¥`¥Y_]aa____a`^`^0¥`Z_^]VRSXW¥XQ
@HWI-EAS443:3:22:589:688#0/1
CAAGGAGGCACAGGATGTGATTATGGAAGTTTTTTTCCCA
+HWI-EAS443:3:22:589:688#0/1
^HV^_abb_^^]`a^]¥PPYaaYYYUBBBBBBBBBBBBBB
@HWI-EAS443:3:22:88:1372#0/1
TCCCGTTTTCGTTTCATTACCAACACTACGCCCCCTGCC
+HWI-EAS443:3:22:88:1372#0/1
abbaTJ^`_aa`b[abbaba``Ubbb[b`XMaab[Z^^_
@HWI-EAS443:3:22:903:552#0/1
CTTATTTTCGAAAAGGTTGAAAGGTTGAAACATGGTACCTT

+HWI-EAS443:3:22:903:552#0/1
^RXQKR` [ZN]U]XVV[]]]ZZWJ^aUU¥F[W]¥Y_]P¥^
@HWI-EAS443:3:23:1290:1087#0/1
GCCACAGCACACAGATTGGAGGAGTAAGGATGGGGGACAT
+HWI-EAS443:3:23:1290:1087#0/1
_Y]WVYaa`¥^`R_FY[[S]JWVNOX¥USSSQLGV]QLL[
@HWI-EAS443:3:23:1619:1176#0/1
CGGCGGAACAGGCAGTGTATTATATTGAAGTGTGGACTTA
+HWI-EAS443:3:23:1619:1176#0/1
__bbb` [Z]b_L__QUWZaY^S[BBBBBBBBBBBBBBBB
@HWI-EAS443:3:23:1691:1165#0/1
AAAAGAAGTCTAATGTCGTAGTCCCGCACTCGC
+HWI-EAS443:3:23:1691:1165#0/1
aba_bV_bb`_abb]a_]bX`_SS]]_a¥ZUN]TWT`^_W
@HWI-EAS443:3:23:1700:466#0/1
GGGACGTAGTGTGGTAATGAAAGGAAAACGGGACTCTAG
+HWI-EAS443:3:23:1700:466#0/1
aaaYP_aYaYT`_b`WRHXLO[XNOIU__S^X`YG[^WR^
@HWI-EAS443:3:23:1744:767#0/1
AGAGAATAAAAGAACTGAGAAATCTAATGTCGCAGTCCCG
+HWI-EAS443:3:23:1744:767#0/1
abT[abb]abba`a_babaZP]aVabW^a^]_UY_UP¥O[
@HWI-EAS443:3:23:244:780#0/1
AGGGGGCGTAGTGTGGTAATGAAACGAAAACGGGACTCT
+HWI-EAS443:3:23:244:780#0/1
a`aaabaa_a`_b`^aYDNa^R]abV`aaaaQ`a^_a__
@HWI-EAS443:3:23:434:951#0/1
TGCTGTAATTGGGTATCTCATTGCCATCATGCACTTCATT
+HWI-EAS443:3:23:434:951#0/1
aa`WaU^U` `SX`]bSDVaaT[[P¥RT`S]JG^T`G^_JWQ
@HWI-EAS443:3:23:555:1708#0/1
AAAAGAAGTCTAATGTCGCAGTCCCGCACTCGC
+HWI-EAS443:3:23:555:1708#0/1
_^_S__`aWF[Q_]_b`_a]_`bSY`UN_]¥GRY_^_JN
@HWI-EAS443:3:24:112:744#0/1
TTCCTGATGTGTACTTTTTGATTATGGCCATATTGTCCAC
+HWI-EAS443:3:24:112:744#0/1
¥bbb_bY_b_babaabbbb]ba`a]V`a`J^TI_U[P^W
@HWI-EAS443:3:24:1303:484#0/1
TGGTATTCTACAAGAGGGTTGCATGATCAAGGCAGTTAG
+HWI-EAS443:3:24:1303:484#0/1
Z¥[KUVa]UNX¥ba_W__WNQXQY_baa_aaa]X]aW`PZ
@HWI-EAS443:3:24:1373:1652#0/1
TCCAGATGAAGGCAGATCTGGGGTGGAGTCTGCTGTCCCTG
+HWI-EAS443:3:24:1373:1652#0/1
R_[__[a_^_WZ`_L`babb_V_P^`bbOb` `^`a^a]^a¥
@HWI-EAS443:3:24:1684:539#0/1
CTGAGAAGTTGACAATAAGTTATTCGTCATCAATGATGTG
+HWI-EAS443:3:24:1684:539#0/1
]_V`a^YZY¥DY^`T_^_P¥a^__X]GQVZ[PTa^^^]QY

@HWI-EAS443:3:24:634:1194#0/1
AAGAAGTGAAGATCTAATGTCGCAGTCCCGCCCTCGCGA
+HWI-EAS443:3:24:634:1194#0/1
[a¥ZI_YaWUR¥^[b]a`Z^^aXUaTR]_ZN¥G]MU[Y]`
@HWI-EAS443:3:25:1477:1962#0/1
AAGGTTGAAAGTTGAAACATGGTACCTTCGGCCCTGTCC
+HWI-EAS443:3:25:1477:1962#0/1
`bba_bb`ababababaa`aaaa^a`_aa__`_`^^¥UZ^
@HWI-EAS443:3:25:412:174#0/1
GAATAAAAGTACTGAGAGATCTAATGTCGCAGTCCCGCAC
+HWI-EAS443:3:25:412:174#0/1
a^aH[a`QXGSUQ`]aVaV^RO^V^`RPHR^XRYRRSYVY
@HWI-EAS443:3:26:1026:964#0/1
TATTCCGATCATTCCCATCACACTGTCGATGGATTCAATT
+HWI-EAS443:3:26:1026:964#0/1
abbbbaa_abaa`_aba`aaa_aa^aa[[aa`^``]¥`^
@HWI-EAS443:3:26:1385:282#0/1
CTGCTGTAATTGGGATCTCATTGCCATCATCCACTTCAT
+HWI-EAS443:3:26:1385:282#0/1
aWaV_bb`bbba_F¥a]^aa`_aZH`¥_XZ]RZ[aWR^
@HWI-EAS443:3:26:153:392#0/1
ATGTCGCAGTCCCGCACTCGCGAGATACGCACTAAGACCA
+HWI-EAS443:3:26:153:392#0/1
TbaS]Z_QWaabaWT^a`XabZU[_ZYGXa`]a`X[aR[
@HWI-EAS443:3:26:1651:908#0/1
ATGTCGCAGTCCCGCACTCGCGAGATAGTCACTAAGACCA
+HWI-EAS443:3:26:1651:908#0/1
`ab]abb`aYaVU`_`_aZH_Z[Qa___NRMZK___Q_GQB
@HWI-EAS443:3:26:694:1278#0/1
ATTATGGCCATATTGTCCACAGTGGTCTTAGTGAGTATCT
+HWI-EAS443:3:26:694:1278#0/1
aa`P]_Va]ZZX`OWRZZ`¥ZZKW^GBBBBBBBBBBBBBB
@HWI-EAS443:3:26:711:986#0/1
CTCTTATTTTTCAGTGTGGAGGTTTCCCGTTAGCACTTC
+HWI-EAS443:3:26:711:986#0/1
aa[ab^^bb¥abbaa¥b]a`bbbW_Lb_aa`a`]aaY`aV
@HWI-EAS443:3:27:1411:1506#0/1
CTGGATCAATCTCCTGGTTGCCTTTCTGAGAATCGCTGTT
+HWI-EAS443:3:27:1411:1506#0/1
T^]Y]`aZ]aa¥```SPXb^U[Va`a`_]`^b]]_¥¥^
@HWI-EAS443:3:27:1436:1285#0/1
GTTATTGTCAACTTCTCAGTTCCTTGGGTTTCACTGACTT
+HWI-EAS443:3:27:1436:1285#0/1
aa¥OY]]R]^ST^QFL_WW[SMMV`WDPF_ZBBBBBBBBB
@HWI-EAS443:3:27:1665:183#0/1
AAAAGAAGTGAAGATCTAATGTCGCAGTCCCGCAGTCGC
+HWI-EAS443:3:27:1665:183#0/1
]aT_NX_]bbb_Z`]PQaL_[b_ZaTN`]`OFW¥BBBBBBB
@HWI-EAS443:3:27:183:1446#0/1
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+HWI-EAS443:3:27:183:1446#0/1
Y`baabbaaab`babaaaaYa[aa_[aa]F^W__`P`
@HWI-EAS443:3:27:439:1586#0/1
AGTGTCTTACGAATCCACTGTACCGCTTCTGGGTGCCT
+HWI-EAS443:3:27:439:1586#0/1
X^Z]abbbabbba_aabaa¥Zba`V]`^QBBBBBBBB
@HWI-EAS443:3:27:764:1374#0/1
CAGTAGCCGGCGAACAGGCAGTGTATATTTAAGTGTT
+HWI-EAS443:3:27:764:1374#0/1
ab`W^aaaa^aTX_aa^[¥`^_BBBBBBBBBBBBBBBB
@HWI-EAS443:3:27:868:507#0/1
TGCCTTGCATATGTCTACGGCTTTTCTCAGTTGGATTC
+HWI-EAS443:3:27:868:507#0/1
`a`abb`aa`¥_babbb`_bb_HT]H]VRFVX^[]MRZL
@HWI-EAS443:3:27:889:318#0/1
CAGGGCCGAAGGTACCATGTTTCAACCTTTCAACCTTTTC
+HWI-EAS443:3:27:889:318#0/1
Za¥V^^`bba^^IabZT]bV_^`bV`]`ba`¥`]`VbaZ
@HWI-EAS443:3:28:526:531#0/1
GGCCATTCTATTCCACCATGTTACGGCCAGAGGGGATAC
+HWI-EAS443:3:28:526:531#0/1
a`aaba]aaabaaaa_ab`¥aaaV[[^^L[V_G_ZG]M
@HWI-EAS443:3:29:1103:1187#0/1
AAAAGAAGTCTAGAGATCTAATGTCGCAGTCCCGCACTCGC
+HWI-EAS443:3:29:1103:1187#0/1
`aaaa`a`_`_`_¥_]_b[^V^Y^_V]^¥^YXVW]B
@HWI-EAS443:3:29:726:945#0/1
AGCAGACCCATTAGCATCTCTTGTCAAATGTGCCACAGC
+HWI-EAS443:3:29:726:945#0/1
¥U_]b`X`a]L[___N¥___YUYODY^P[¥G`_Z`_`_]
@HWI-EAS443:3:2:1115:365#0/1
AAAAGAAGTGGGAGATCTAATGTCGCAGTCCCGCACTCGC
+HWI-EAS443:3:2:1115:365#0/1
aaaab`aTbaa`aa`a`a`a`^_aXZZTU^^^XX_¥
@HWI-EAS443:3:2:1166:1441#0/1
CAGGGCCGAAGGTACCATGTTTCAACCTTTCAACCTTTTC
+HWI-EAS443:3:2:1166:1441#0/1
aba`a`abbb]bb_abbaababaa`baa_aa_Raab^
@HWI-EAS443:3:2:1411:1118#0/1
AAAGAAGTGGGAGATCTAATGTCGCAGTCCCGCACTCGCG
+HWI-EAS443:3:2:1411:1118#0/1
[QIRN_[abV^L`bTQ^YaaaXXaS`TXFRaPGGMVGUB
@HWI-EAS443:3:2:188:149#0/1
AAAGAAGTGGGAGATCTAATGTCGCAATCCCGCACTCGCG
+HWI-EAS443:3:2:188:149#0/1
aa_WQ]_a`aa_]`^T^`_`_ZZXZ`_^UV]]U]WW]]]`
@HWI-EAS443:3:2:241:1167#0/1
CAGAATGAAGAGGATGATGGCAATGAGATACCCAATTACA
+HWI-EAS443:3:2:241:1167#0/1
`^]SaX^ZZ¥Gaa`[a[[T¥[TSRLWKSRL`_`_a_X][BB

@HWI-EAS443:3:2:384:626#0/1
TGGCCATATGGTCCATAGTGGTCTTAGTGAGTATCTCGCG
+HWI-EAS443:3:2:384:626#0/1
^VW]aPV_Ma`VRV¥GSUP^X_`a]Z]X` `a[`UZBBBBB
@HWI-EAS443:3:2:803:1631#0/1
GGGACGTAGTGTGGGAATGAAACGAAAACGGGACTCTAG
+HWI-EAS443:3:2:803:1631#0/1
]bbaaa¥abZ`¥bb_F[b^`Zaba`a_ba_a_a` [a^Xaa
@HWI-EAS443:3:2:863:133#0/1
GGGACGTAGTGTGGGAATGAAACGAAAACGGGACTCTAG
+HWI-EAS443:3:2:863:133#0/1
aa^XW`P[¥L_Qa`]GU^_] ^VTPY^TZOFV^ULNLRWBB
@HWI-EAS443:3:2:914:1554#0/1
GGAAAAGCACTTTTGCATCTTTTGGAAATGCCTGAAGAG
+HWI-EAS443:3:2:914:1554#0/1
aa^`_UMRW__JX`a¥¥a_a]^I^_]WPT0aUOWG]R__Z
@HWI-EAS443:3:30:1026:1062#0/1
CCCGCACTCGCGAGATACTACTAATACCACTGTGGACCA
+HWI-EAS443:3:30:1026:1062#0/1
aaYTWP[WT^ZBBBBBBBBBBBBBBBBBBBBBBBBBBB
@HWI-EAS443:3:30:129:354#0/1
CAGGGCCGAAGGTACCATGTTTCAACCTTCAACCTTTTC
+HWI-EAS443:3:30:129:354#0/1
aW¥X]a` []][[T]aZ]^YPZ^]]_RXOX¥XT_S¥QYZ¥
@HWI-EAS443:3:30:1703:1740#0/1
GCTGGATCAGACCGAGTGATGGTATCACCTCTGGACGTAA
+HWI-EAS443:3:30:1703:1740#0/1
a^_a_^G¥____`_¥¥_FKVM¥^BBBBBBBBBBBBBBBBB
@HWI-EAS443:3:30:201:681#0/1
GGAGAGAACAAAAGAACTGAGAGATCTAATGTCGCAGTCC
+HWI-EAS443:3:30:201:681#0/1
``_`]aU]L_`[__¥^^¥Z^X_^¥T¥W_SS_W¥U^S[UWX
@HWI-EAS443:3:30:304:1392#0/1
ATATGGTCCACAGTGGTCTTAGTGAGTATCTCCCGAGTGC
+HWI-EAS443:3:30:304:1392#0/1
aa_[_`W^X_Y[`UX`QP[aV[V¥T]S`SRSXDYOVKDIT
@HWI-EAS443:3:30:306:1951#0/1
CCGTAAAACAAGGTTTCTCCCAGCAGCCGGCGAACAGGC
+HWI-EAS443:3:30:306:1951#0/1
a_PZ^`aaa` `ZPPWS_S` [_¥JJ¥W_[VR_WBBBBBBBBB
@HWI-EAS443:3:30:728:1113#0/1
TGCCTTGCATATGTCTACGGCTTTTTCTCAGTTGGATTC
+HWI-EAS443:3:30:728:1113#0/1
a^abbbbbbabbabbabbabbbaa_H[TM[L¥QQT]QVDS[Y
@HWI-EAS443:3:30:76:347#0/1
AAAAGAAGTGGAGATCTAATGTCGCAGCCCCGCACTCGC
+HWI-EAS443:3:30:76:347#0/1
¥S[K_J`aZaa[_V]ba_V¥a`b]a`]H]aaa`_a_XN[
@HWI-EAS443:3:30:805:219#0/1
TGCTGTAATTGGGCATCTCATTGCCATCATCCACTTCATT

@HWI-EAS443:3:33:1393:1380#0/1
GGGGACGTAGTGTGGTAATGAAAAGAAAACGGGACTCTA
+HWI-EAS443:3:33:1393:1380#0/1
__aa___`a`R`^^M[OZVaXVa_FTKV_^HHLHKKXXYU
@HWI-EAS443:3:33:1479:684#0/1
GAATAAAAGAACTGAGAGATCTAATGTCGCAGCCCCGCAC
+HWI-EAS443:3:33:1479:684#0/1
¥QS[`TTT^]YY]_]0_XWYY]YNX_L¥^]XTOHIOYJRV
@HWI-EAS443:3:33:1501:1898#0/1
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+HWI-EAS443:3:33:1501:1898#0/1
G]b`¥¥[_¥a¥X``aaYW¥^_WWaY``_aaaVLJQGWX`T
@HWI-EAS443:3:33:1589:672#0/1
GGAGCAGCAGCAAAGGGGAGAAGTTTTATTATTTAGACAG
+HWI-EAS443:3:33:1589:672#0/1
X`WUVaZZ]Y[bIPUWWXZUR_aBBBBBBBBBBBBBBBB
@HWI-EAS443:3:33:1663:963#0/1
ATCTAATGTCGCAGTCCCGCACTCGCGAGATAATCACTAA
+HWI-EAS443:3:33:1663:963#0/1
aa`aaaa_^^`_a¥^^_W_GW¥BBBBBBBBBBBBBBBB
@HWI-EAS443:3:33:1729:797#0/1
AAAGAACTGAGAGATCTAATGTCGCAGTCCCGAACTCGCG
+HWI-EAS443:3:33:1729:797#0/1
aaaa`b¥aa_a`a]VYaa`^[Z`_`_V^X_]LKTXX^XVV
@HWI-EAS443:3:33:244:1804#0/1
AAACACTGCCTGTTCCCGCGCTACTGGGAGAAAACCTGT
+HWI-EAS443:3:33:244:1804#0/1
aabbaa``aa`[WUba_a^NPa¥`WPGQ^^][[_U_WWZU
@HWI-EAS443:3:33:362:1849#0/1
ATCTAATGTCGCAGTCCCGCACTCCCGAGATACTCACTAA
+HWI-EAS443:3:33:362:1849#0/1
a[ORT[O[X_P¥]LO]b`BBBBBBBBBBBBBBBBBBBB
@HWI-EAS443:3:33:388:1471#0/1
CAGTATTCTTGCCCCACTTCATTTGGGAAAAAACTTCC
+HWI-EAS443:3:33:388:1471#0/1
a_a[Q]a^]_baaa`_a^[^a^^SSR¥`_]UG_]ZQLUP
@HWI-EAS443:3:33:396:415#0/1
AAAACCTATTTCGAAAAGGTTGAAAGGTTGAAACATGGTA
+HWI-EAS443:3:33:396:415#0/1
a[YRR¥ZU]`[___`_^W][]¥Y_`[^V]¥Z_ZWUWW]YI]
@HWI-EAS443:3:33:546:240#0/1
AGCAAAACAAACGATGCTGGATCAGACCGAGTGATTGTAT
+HWI-EAS443:3:33:546:240#0/1
aaaa^_abaaaa`_`aa`[¥]aa^`V^[__WW¥TPXUXY
@HWI-EAS443:3:33:720:142#0/1
GAACCCCGCACTCAGAATGAAGTGGATGATGGAAATGAGA
+HWI-EAS443:3:33:720:142#0/1
a_]a`b`a`[^a[af¥`_^^`¥aRMV`¥0`VG[0¥QPSV
@HWI-EAS443:3:33:872:1356#0/1
GACAGGGCCGAAGGTACCATGTTTCAACCTTTCAACCTTT

+HWI-EAS443:3:33:872:1356#0/1
aaa[^^[aa`¥`bbP`abba`_abba`_]aaaX`^```aa
@HWI-EAS443:3:34:134:531#0/1
AAAGAAGTCTAATGTCGCAGTCCCGCCCTCGCG
+HWI-EAS443:3:34:134:531#0/1
[bbaaaaXW[¥aaV_a`aU`^Z`_baVDS^¥SUGSOBBBB
@HWI-EAS443:3:34:1562:1307#0/1
AAAGAAGTCTAATGTCGCAGTCCCGCCCTCGCG
+HWI-EAS443:3:34:1562:1307#0/1
¥`b]a`Y`aa`^_SaaZ`]__YYaBBBBBBBBBBBBBB
@HWI-EAS443:3:34:291:230#0/1
AGGGGACGTAGTGTGGTAATGAAACGAAAAGGGACTCT
+HWI-EAS443:3:34:291:230#0/1
`abba`a`UU_]`a`^JQW]TYY^O^X_Q¥FSZ¥LDRUT
@HWI-EAS443:3:34:603:626#0/1
CACTCGCGAGATACTTACTAAGACCACTGTGGACCATATG
+HWI-EAS443:3:34:603:626#0/1
ab`abbbba_T]_aaI_a_aa`]aaa_aa]a`_a^`_^]_
@HWI-EAS443:3:35:1004:1722#0/1
GTGAATTCTTCATACCCTTCATGTACTCCTATTTTCAGTG
+HWI-EAS443:3:35:1004:1722#0/1
`O]_^`ZP_aa```[_`_`^```]SX`WJ]^¥a^^Y]W_
@HWI-EAS443:3:35:1104:315#0/1
GGGATGTGCTTGGGACATTTGACACTGTCCGAATAATAAA
+HWI-EAS443:3:35:1104:315#0/1
]b[Y`S`a[¥`[S[``____]a`][[S[ZW]a00TT^^_VQ
@HWI-EAS443:3:35:1657:694#0/1
AAAAGAAGTCTAATGTCGCAGGCCCGCACTCGC
+HWI-EAS443:3:35:1657:694#0/1
aabbba`baaaba`a`aba[aaa`UPaUF^¥[[HGV^LX
@HWI-EAS443:3:35:1710:1880#0/1
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+HWI-EAS443:3:35:1710:1880#0/1
__`babbbabababa[aaZH¥bba``babaaa`UZ`Va
@HWI-EAS443:3:35:1731:1079#0/1
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+HWI-EAS443:3:35:1731:1079#0/1
abaaaa`¥baaaaa`a`aa`a`_`__Rba_a``_¥T`W_
@HWI-EAS443:3:35:235:350#0/1
AAGAAGTCTAATGTCGCAGTCCCGCCCTCGCGA
+HWI-EAS443:3:35:235:350#0/1
a]aab]^`^_Q_aaaaa¥_aY]W`^`YNP`_`YYG[¥]Z`LD
@HWI-EAS443:3:35:421:1400#0/1
CCAGCATCGTTTGTGTTTGGCCAGAGGGTTTGTCTTGTT
+HWI-EAS443:3:35:421:1400#0/1
_aU¥_XVa^Q`_^[aUQX[D[`]^^`RYUR^[G`¥FTZUI
@HWI-EAS443:3:35:421:1660#0/1
AAAAGAAGTCTAATGTCGCAGTCCCGCACTCGC
+HWI-EAS443:3:35:421:1660#0/1
_¥]aa_UYbaaT]]bUb_U`[_ZIa`]_bbOFXH`Q[[[_

@HWI-EAS443:3:36:1013:1796#0/1
TGCTGTAATTGGGGATCTCATTGCCATCATCCACTTCATT
+HWI-EAS443:3:36:1013:1796#0/1
KUb`¥SZVaVbbaGaSXXbb[Vabab¥VaXb[VLVN____]
@HWI-EAS443:3:36:1209:281#0/1
AATAAAAGAATTGAGAGATCTAATGTCGCAGTCCCGCACT
+HWI-EAS443:3:36:1209:281#0/1
_S`XV__^VS_X¥_¥a`V`____aa]`W[`]SVV_Z^QLR
@HWI-EAS443:3:36:1290:2016#0/1
AAAGAAGTCTAATGTCGCAGGCCCGCACTCGCG
+HWI-EAS443:3:36:1290:2016#0/1
^[_Z__b]XRMWaa^XU_Z[aVTHL`¥HXaaVFNaSYLM^
@HWI-EAS443:3:36:1354:175#0/1
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+HWI-EAS443:3:36:1354:175#0/1
aa]`bYabaa]`^`abaaa`a`_¥]`[_`Y¥Xa[aY]`
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+HWI-EAS443:3:36:1396:1879#0/1
aUY^__a__S]_X_OXa]Y]YX^[PYHVW[R]RVMMOFP
@HWI-EAS443:3:36:157:153#0/1
AAGAAGTCTAATGTCGCAGTCCCGCACTCGCGA
+HWI-EAS443:3:36:157:153#0/1
aa^RX_a`a_R^Y^]^ZM¥_]aVRHHF[[[¥`¥¥T_S^QP
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CTACTCGGAGAAACCTTGTTTTACGGACCAATTCTCTTTC
+HWI-EAS443:3:36:235:318#0/1
a`X`XGU`YVW[]XXZ[a]__]`_UPQ[[[SV[ZZ_Y^^_
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CGAGATACTACTAAGACCACTGCGGACCATATGGCCATA
+HWI-EAS443:3:36:248:354#0/1
aa_¥a^¥`b¥WY[UY_¥`a`a__XaY¥Ya]__[_`^`X^NJ
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TGGCAATGAGATACCCAATTACAGCAGACACGAGAATAAT
+HWI-EAS443:3:36:425:328#0/1
abb[QZWba]a`ZZaSU_YS`[¥a^^^`HH¥S`XGGSZR
@HWI-EAS443:3:36:860:1503#0/1
AGAAGTCTAATGTCGCAGTCCCGCACTCGCGAG
+HWI-EAS443:3:36:860:1503#0/1
a`a¥aaaba`^a__aaa__N_S`[YMWUaWa¥¥U_S_WY¥
@HWI-EAS443:3:37:1096:620#0/1
AGAAGTCTAATGTCGCAGTCCCTCACTCGCGAG
+HWI-EAS443:3:37:1096:620#0/1
aa^a_`^`^abaab]babb^Yababba]UaP_Ua`ba`XQ¥
@HWI-EAS443:3:37:1303:1070#0/1
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+HWI-EAS443:3:37:1303:1070#0/1
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+HWI-EAS443:3:37:1369:651#0/1
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@HWI-EAS443:3:37:1389:196#0/1
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+HWI-EAS443:3:37:1389:196#0/1
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+HWI-EAS443:3:37:1399:1700#0/1
Z__WXX^¥¥_WZ¥aU¥_aaa__¥ZXaZ¥XD[[^¥`]W]LQ
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+HWI-EAS443:3:37:1508:363#0/1
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CGTTTTCGTTTCATTACCAACTACGTCACCTTGCCCAA  
+HWI-EAS443:3:37:517:1221#0/1  
aa¥^aa`VT``[a]U`a¥TZ^a`¥]JRaGa¥XU\_```\_]  
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+HWI-EAS443:3:37:808:30#0/1  
\_``b`b`b`b`b]aa`aaa`]^a^a`Y`\_¥FT]^`Ya`Za`  
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+HWI-EAS443:3:37:983:162#0/1  
ab`b`¥a`bb```aaaaaaaaab\_`\_`\_]HMaYY`NXZ`RT  
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+HWI-EAS443:3:38:1104:723#0/1  
Z`\_b`bbabb\_W¥]ba`b^baaaa`aba]W¥WX`\_`[\_Z  
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+HWI-EAS443:3:38:144:1059#0/1  
ab]aaab\_X`aaa\_X`aaa¥a]J¥a[a\_\_\_\_\_``\_\_[UM  
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+HWI-EAS443:3:38:169:699#0/1  
`\_W\_YD[aaY^U\_¥[aa^[\_a`]^X^T^W^M`PR[^[[  
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+HWI-EAS443:3:38:378:572#0/1  
\_b\_¥Z¥aa\_VV^\_I]bb^\_aZ¥`^]^[ab`X]Za\_a\_`\_`  
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AGGGGACGTAGTGTGGTAATGAAACGAAAAAGGGACTCT  
+HWI-EAS443:3:38:469:1866#0/1  
aa]ZaaaaXa[\_a¥a\_aW^a\_\_`abX¥Wa¥WHTWV^\_V]R

@HWI-EAS443:3:38:535:448#0/1  
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+HWI-EAS443:3:38:535:448#0/1  
\_`OS^]][^^^WFZ\_a`[aZ\_\_^]Va``¥¥U¥Z[\_`]a^[  
@HWI-EAS443:3:38:628:208#0/1  
CACTCGCGAGATACTACTAAGACCACTGTGTACCATATG  
+HWI-EAS443:3:38:628:208#0/1  
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+HWI-EAS443:3:39:1569:1086#0/1  
`^V^a\_a\_] [¥]]baTTXHJ^\_¥[aU[^`YNDLQ¥Z\_a^V  
@HWI-EAS443:3:39:251:1148#0/1  
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+HWI-EAS443:3:39:251:1148#0/1  
^Vaaba`aVb`][YVM\_SY¥WaaaWR¥\_aa\_a\_]U[\_¥  
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+HWI-EAS443:3:39:554:1526#0/1  
`a`baaa`^ [a`R]]\_J]]Y]PZPDRZ`a\_Z]THYadWR¥  
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aab`^`baab[^aa`]^aaaaa`a\_aaaP[\_`]\_`\_`a  
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+HWI-EAS443:3:39:868:1537#0/1  
¥^Za`^`\_`aaabb¥b`]a¥a\_aaa`^^aYY`b`¥`ZL  
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+HWI-EAS443:3:39:903:95#0/1  
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+HWI-EAS443:3:3:1029:2035#0/1  
ITHV[[bNba\_[]IXTabaaab`\_a[^a^^KaXa``^Qa`  
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+HWI-EAS443:3:3:1039:1691#0/1  
^]Zaa`^`bbab^`]F¥ba\_`¥U`¥a]ZNVX^U\_¥\_¥S[T  
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+HWI-EAS443:3:3:109:559#0/1  
^VZ¥¥¥WUaM[J[aT]RaU\_`a\_X]aH\_T¥Y\_RL]H\_LBB  
@HWI-EAS443:3:3:1166:1265#0/1  
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+HWI-EAS443:3:3:1166:1265#0/1  
abab`a\_aTaaaaaaaaba\_\_b`a^aaa\_]\_\_¥\_\_`^Y]  
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+HWI-EAS443:3:3:1191:1636#0/1  
abaaab^^`¥ab[\_S\_a`Sa¥FVYSHZZ[Q[\_]VNRLT\_  
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+HWI-EAS443:3:3:1297:1510#0/1  
Y\_b\_\_ba\_abZbbabb`b`H`ba^b\_bbb^Tba`ba\_\_b]  
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+HWI-EAS443:3:3:1696:658#0/1  
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+HWI-EAS443:3:3:638:1988#0/1  
\_]aaaa`[bbba`aIaabb^\_^aa`\_a`a¥]aaG\_U`^^  
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+HWI-EAS443:3:40:1198:1120#0/1  
a`aaaa``aaaa`a\_aaa]`\_\_`\_¥XI[`^^`]\_\_^X^U  
@HWI-EAS443:3:40:1286:1381#0/1  
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+HWI-EAS443:3:40:1286:1381#0/1  
a\_Z]^]¥`[a`^aa^\_a``]Z`^YZTFZR¥SZZU^MNY][  
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CTTCTTTGGCCAAAATGAGAAATCCTCTCAGGACAGCAGA  
+HWI-EAS443:3:40:1327:997#0/1  
\_\_SXa[VOH]X\_UR]RORVWPP]ZV¥b¥ba¥ZY`VP\_\_T¥  
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+HWI-EAS443:3:40:1375:1058#0/1  
X`bbb`\_abbabbbbab\_bbbabbaba`[bbbaaWabbb  
@HWI-EAS443:3:40:1454:1209#0/1  
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+HWI-EAS443:3:40:1454:1209#0/1  
aaa`a]\_^\_aX^`][`\_a`\_\_`a[JH[``^^aa]V\_Z`W  
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+HWI-EAS443:3:40:146:424#0/1  
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+HWI-EAS443:3:40:1478:137#0/1  
a`[Z\_\_[U¥^UN[V¥Y¥YY]¥Z¥WTP¥VWQKPITUUWWW  
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+HWI-EAS443:3:40:214:1162#0/1  
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+HWI-EAS443:3:40:288:1128#0/1  
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+HWI-EAS443:3:40:396:423#0/1  
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+HWI-EAS443:3:42:1333:51#0/1  
^]L\_^¥`[\_V`\_]W\_a\_]a^Y`a¥Na\_a¥aa]Z^U[V^¥`  
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+HWI-EAS443:3:42:499:1532#0/1  
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+HWI-EAS443:3:42:965:493#0/1  
`b^a`^bbbab^aabaXaa`\_ab`a\_a\_]`\_aa¥\_`a[FV  
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+HWI-EAS443:3:43:1046:996#0/1  
abU]aa[aaa`a\_a[aa\_``\_[YGL]\_a`^a[\_a]\_a]^\_  
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+HWI-EAS443:3:43:1192:212#0/1  
ab¥b`\_abab¥ba`¥a¥a`¥`aa`]W\_`R``[]V^WU[U[^  
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+HWI-EAS443:3:43:1577:522#0/1  
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+HWI-EAS443:3:43:1788:89#0/1  
a\_a]G\_¥`\_aYaN\_Z¥^] []UH^UW¥UYYS¥¥GW¥YWSPST  
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+HWI-EAS443:3:43:478:1196#0/1  
[KUaV^Xa¥TUTaP]aaa\_aa^\_WZ^MH\_aXH\_]`\_aS`\_  
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ATTGGGCAAGGGGACGTAGTGTGGTAATGAAAAGAAAAC  
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aa^^`bb`\_\_abbV`a\_[]\_a]aaaPY`a\_\_\_\_]HZRTa^F  
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+HWI-EAS443:3:43:612:27#0/1  
\_Zaa¥\_aa\_\_abbbaabbb`¥]bQa\_S\_¥]\_UHVW```a  
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+HWI-EAS443:3:43:921:1596#0/1  
` `aab]\_U\_abb\_T`^`\_Yaba\_G\_X]]VUZ[QYJ^XQ\_  
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@HWI-EAS443:3:44:152:882#0/1  
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+HWI-EAS443:3:44:152:882#0/1  
ab` `aab\_ab¥b`bba¥` `abaaaP^Xaa\_\_\_\_\_^UZ\_a¥\_  
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U` [ [TSU^^\_\_\_\_OS\_aba[]]FZ]U\_G¥a`Ya[HS]\_[PR  
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aaaaaaaaa^`aaa^`^aaaaa^a` `aa[ `Z` ]\_`^^¥V  
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+HWI-EAS443:3:44:824:1959#0/1  
aababa`a\_` `aa` ]`\_a\_N\_`^\_`a\_X`a\_\_`\_a^`^R\_  
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CTTGTCTTCTTTGGCCAAAATGAGAAATCCTCTCAGGACA  
+HWI-EAS443:3:44:833:126#0/1  
aaaaUaa` `aba\_G\_¥` ` ` ` \_aaa` ` \_W\_\_\_\_\_^\_` `WW¥  
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+HWI-EAS443:3:45:1042:1018#0/1  
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aa¥¥^[\_aXF[TY\_]YYT\_]\_\_^]\_[H^R^WRQUX^]X  
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+HWI-EAS443:3:45:1649:1630#0/1  
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+HWI-EAS443:3:45:601:700#0/1  
`aH^]aab\_bab`aaaa¥aaa\_\_`\_aaaaU]aa`aU`\_\_a  
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AAAAGCACTGAGAGATCTAATGTTCGAGTCCCGCACTCGC  
+HWI-EAS443:3:46:1184:1373#0/1  
^\_\_bPG` `a\_`^`\_¥V`abaX`]SaQ\_aa` `\_]ZW^`¥^[X



@HWI-EAS443:3:46:1211:1047#0/1  
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+HWI-EAS443:3:46:1211:1047#0/1  
aaa^]Z`a#b``ZN\_TXRQ#Z\_a\_\_VW^`a#^\_^ZZ\_\_^  
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+HWI-EAS443:3:47:1040:932#0/1  
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+HWI-EAS443:3:47:1242:987#0/1  
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+HWI-EAS443:3:47:1685:1950#0/1  
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+HWI-EAS443:3:47:547:990#0/1  
aa#QOZP`[\_^WP^M#RZYFJ#N#\_HZ#avJXJFNYNNU\_  
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+HWI-EAS443:3:48:1430:1333#0/1  
\_L\_[a#Q`QT]JZ\_PXPGMaZVV[LX[#^]HLQQSONRR  
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+HWI-EAS443:3:48:1577:1551#0/1  
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+HWI-EAS443:3:48:1617:360#0/1  
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+HWI-EAS443:3:48:362:735#0/1  
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+HWI-EAS443:3:63:1291:1649#0/1  
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@HWI-EAS443:3:64:1166:1103#0/1  
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+HWI-EAS443:3:64:1166:1103#0/1  
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\_ab`bbbbbbbaababababaaaaabbab\_TYaaa`\_]a^  
@HWI-EAS443:3:64:1433:176#0/1  
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+HWI-EAS443:3:64:1433:176#0/1  
]a]``]b\_bTbaSa`aZ\_\_¥\_a\_\_[\_Z\_^`]a¥\_U`¥`U



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+HWI-EAS443:3:64:1484:871#0/1  
`Ta¥GVaUa\_]^¥Z^a`\_S^T`\_]`[Z^`^a`\_^\_\_]Xa  
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+HWI-EAS443:3:64:1603:1231#0/1  
aa`W]a\_ZR\_YR[a\_X`]^\_[¥¥\_\_`Z¥Y¥\_\_^]Y[`VWW  
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a`^YY`[`a\_a^OYH^W^`aY\_Z\_P]VW¥X`WEX¥UW^W\_  
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+HWI-EAS443:3:65:383:79#0/1  
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+HWI-EAS443:3:65:613:1696#0/1  
T¥`P`\_\_`b\_a\_QX\_ZX¥``X`\_a`XXH`a`[XQ[^^aXYR  
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+HWI-EAS443:3:66:1339:490#0/1  
aaa`aa^O^`aaa\_\_[\_¥`\_[[``\_\_`\_`\_`a¥``V`UY\_  
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+HWI-EAS443:3:66:1443:696#0/1  
\_\_T\_Z]¥`ZW\_W\_b\_¥H¥``b]^\_]¥aaa]^aa]`W`\_J  
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+HWI-EAS443:3:66:418:1375#0/1  
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¥UW^VZZa][a``][a0\_aaXN`a`]US^a^X]VYZ¥a`  
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+HWI-EAS443:3:66:824:1934#0/1  
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+HWI-EAS443:3:66:926:1037#0/1  
aaa¥aaaa\_aa\_\_\_\_`\_\_]\_a]]`U\_]\_¥¥FT]VWY^WGSZ  
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+HWI-EAS443:3:67:1694:1740#0/1  
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+HWI-EAS443:3:67:605:601#0/1  
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+HWI-EAS443:3:67:981:336#0/1  
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+HWI-EAS443:3:68:1693:526#0/1  
Y` `` `a\_`Saa`a`¥`\_Q]U\_^aa¥¥HUZ]\_R¥[XXTVZ¥  
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+HWI-EAS443:3:69:1645:1048#0/1  
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+HWI-EAS443:3:69:1725:1681#0/1  
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+HWI-EAS443:3:69:787:110#0/1  
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+HWI-EAS443:3:6:1140:98#0/1  
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+HWI-EAS443:3:6:372:1854#0/1  
a[a\_a[b\_ZRaTZ`\_a\_`^[GTa`QHL`aZG^[¥\_\_\_GUT  
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\_b\_aba`\_]UaZ¥\_``aG`Z[ ]Y`YNYFF^`^^[GT\_U\_^  
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+HWI-EAS443:3:6:631:1739#0/1  
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+HWI-EAS443:3:6:695:1055#0/1  
a¥bbbaba`aaaba```bbaaa¥a`aaa\_`^`Y\_`^`\_a\_  
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+HWI-EAS443:3:70:1042:684#0/1  
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+HWI-EAS443:3:70:506:78#0/1  
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+HWI-EAS443:3:71:1518:769#0/1  
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+HWI-EAS443:3:71:389:598#0/1  
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a`aaaabaa`baaa\_abaa`ba\_a``Ua\_aa^Z^a]\_\_`\_`  
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+HWI-EAS443:3:73:1553:971#0/1  
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+HWI-EAS443:3:73:1721:1893#0/1  
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+HWI-EAS443:3:73:264:315#0/1  
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+HWI-EAS443:3:73:430:476#0/1  
aa¥¥`^a]¥¥]a^U^UZ¥a\_]^[^aa`^`]UaX\_VX[[[XT  
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aaa\_¥`\_aWR^^[R\_\_V[\_Z`]\_]XGY`VSZ``TXZQ\_[0  
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+HWI-EAS443:3:73:765:1270#0/1  
^¥\_¥ZQ\_\_ZTZ`\_VURaZVRUZ]H\_K]VGX\_PO\_HM^`Y`  
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+HWI-EAS443:3:73:791:135#0/1  
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+HWI-EAS443:3:74:139:1804#0/1  
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+HWI-EAS443:3:74:1722:802#0/1  
[^`^]abaaW`]ab`b]]]aP]XZ\_^PDZ^V[[M¥W[ZT  
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+HWI-EAS443:3:74:217:1696#0/1  
\_NV\_[OU[YOS]WXXZ`UFT]XKXXSZQOYZJMN[[]VOF  
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+HWI-EAS443:3:74:325:1921#0/1  
^[a^[^ZZ\_\_]\_\_]Z^a[TWH^\_¥] []VJYR[[TN]¥KZZ  
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+HWI-EAS443:3:74:754:1089#0/1  
abb[F^¥ba]¥ZabS\_SX] []X\_b]a^PU^`a`TU¥P`Y`  
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+HWI-EAS443:3:75:1086:1187#0/1  
aaa`] ]^` []]aa`] [aa`a\_`\_\_\_\_a\_\_^¥` \_`` [-^^[  
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+HWI-EAS443:3:75:1138:836#0/1  
]`a^Wb^ababaab`aa`a\_a\_b\_a^NX\_a\_a¥R\_\_\_\_]F^  
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+HWI-EAS443:3:75:1217:1035#0/1  
XF\_] ]bb`] ]^[aa`a\_^aTRPPU[H[Xa[Z¥]aaMU]\_`  
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+HWI-EAS443:3:75:149:290#0/1  
a\_babb` `aaab`^`aaa`a`aa\_aa\_a\_` `Z`¥\_\_Z^\_\_  
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+HWI-EAS443:3:75:1784:1081#0/1  
^¥^aaaa`ba` `bbabab`a`\_^`aa]]] ` `YX^[^^^\_  
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I¥`\_RT¥a^^[\_ba¥a\_a\_[\_bbb` `Y[\_]F]¥\_a`¥H\_\_  
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+HWI-EAS443:3:76:1482:737#0/1  
aa^W¥S^^a` `ZZT\_`\_aa\_G¥TK[HGRW` TZN`N\_0][X  
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+HWI-EAS443:3:76:1710:1472#0/1  
a`¥T^[\_`\_b`¥P]YZN^\_a¥USJDX\_ZLTY\_aURFKNIF  
@HWI-EAS443:3:76:258:800#0/1  
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+HWI-EAS443:3:76:258:800#0/1  
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+HWI-EAS443:3:76:391:1733#0/1  
S`R¥I[XIH[^`¥\_P\_¥¥\_UR^a\_`\_`¥aa]V¥H[a^¥a`  
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+HWI-EAS443:3:76:799:874#0/1  
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@HWI-EAS443:3:77:1192:1969#0/1  
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+HWI-EAS443:3:77:1192:1969#0/1  
a\_H\_[bba]bba`bba`a\_`aba^\_`a`ab`aaa`a]`aa  
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+HWI-EAS443:3:77:1428:1153#0/1  
M^\_W¥W]aXa`X\_a¥aZVaXa`¥\_baXTa`aZZ`bVX\_G  
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+HWI-EAS443:3:77:979:107#0/1  
¥abba\_bbabab\_bb`abbabbaaba¥abb`\_\_¥ba`a]  
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`¥`^]a\_QX\_`Za`aUJ\_`\_R^P¥X¥V¥ZYSNSY]R[U]  
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+HWI-EAS443:3:79:199:1324#0/1  
\_R\_a`^ab^`\_[aMTR\_X`Z]^ZKG\_\_X]]¥a[\_¥¥YXN]  
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+HWI-EAS443:3:79:654:1341#0/1  
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+HWI-EAS443:3:79:80:618#0/1  
aabb\_Za[aa`a`Ya`aaY``\_Y\_aa\_\_`\_Y[\_\_\_\_`  
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+HWI-EAS443:3:79:899:392#0/1  
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+HWI-EAS443:3:79:983:1854#0/1  
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+HWI-EAS443:3:7:1063:1581#0/1  
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+HWI-EAS443:3:7:1258:412#0/1  
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+HWI-EAS443:3:7:1399:1305#0/1  
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+HWI-EAS443:3:7:1622:376#0/1  
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+HWI-EAS443:3:7:1695:1335#0/1  
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+HWI-EAS443:3:7:1739:1335#0/1  
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+HWI-EAS443:3:7:185:138#0/1  
aab^UbaaYD[a`aabb`X^R]a`^a\_X\_`¥\_\_\_]Z\_``  
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a\_0\_^\_a`S][`\_VVaaZ^GZ^``Z¥[[FZ``YTY^[^Z  
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+HWI-EAS443:3:7:614:1831#0/1  
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+HWI-EAS443:3:7:924:1389#0/1  
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+HWI-EAS443:3:80:281:804#0/1  
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+HWI-EAS443:3:80:840:1443#0/1  
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+HWI-EAS443:3:81:1134:1027#0/1  
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+HWI-EAS443:3:81:1212:1435#0/1  
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+HWI-EAS443:3:81:1317:1258#0/1  
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+HWI-EAS443:3:81:157:391#0/1  
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+HWI-EAS443:3:81:63:1678#0/1  
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+HWI-EAS443:3:82:516:1563#0/1  
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+HWI-EAS443:3:83:1232:34#0/1  
\_VT\_\_aa`ba]abX\_aY]H\_\_aX¥`PR\_`¥ZaUV[\_`\_XVN  
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\_\_X¥S[W\_bb\_ab`^]\_aaVb¥PZQW\_PVF]a`U]^TPW]  
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+HWI-EAS443:3:84:336:1188#0/1  
aaa¥I\_\_abaaaaabaaaa`\_\_a\_a`¥U\_Ya]`a[S\_`]  
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AGGTACCATGTTTCAACCTTTCAACCTTTTCGAAATAAGT  
+HWI-EAS443:3:84:848:547#0/1  
¥baPa`Y\_^Z\_a\_Z\_^¥Z\_¥U[\_Z]^b\_]QQZ` [ ]¥]S\_`  
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+HWI-EAS443:3:84:902:44#0/1  
¥^`a^`\_¥\_`a`\_XW`RU]\_`\_]`a^NGZN¥S^¥¥\_R¥¥[O  
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+HWI-EAS443:3:85:1066:1764#0/1  
a\_\_]` [¥[F[XR\_Y`aY\_\_VLWN]\_]^VYya^`\_[]^MEN  
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+HWI-EAS443:3:85:897:1688#0/1  
``\_¥¥^\_¥\_]a]Y^RF¥¥b`Y`\_`a`\_a\_[Ra^^`a```` [ ]  
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\_`T`Y^X¥¥¥[^[a[S[¥Z\_\_[YU¥Z¥XRWWJR[FYWLLT  
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+HWI-EAS443:3:86:1646:1784#0/1  
aa\_`[¥aa[F\_`^`aX`baa]S\_a\_\_^aaV`\_ZWT[]ZNLZ  
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+HWI-EAS443:3:86:1762:1192#0/1  
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aa\_``aa\_a^aa`aa^`\_X]aaa\_\_`Sa\_\_a\_a\_V]\_0^\_  
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+HWI-EAS443:3:88:1422:21#0/1  
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+HWI-EAS443:3:88:1465:1562#0/1  
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+HWI-EAS443:3:89:68:1705#0/1  
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+HWI-EAS443:3:92:24:493#0/1  
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a`a`\_a`T\_a`aa\_aaaaa¥aa`a`aa\_aW^\_\_¥\_¥\_¥S^  
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+HWI-EAS443:3:94:169:1195#0/1  
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+HWI-EAS443:3:99:344:263#0/1  
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a`^\_XPXOPYaT][aTOQY\_\_aVSXX\_STUG^HFDK[W[B  
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+HWI-EAS443:3:9:514:1843#0/1  
O\_SS\_]Z]]\_aGZ]OG[\_Z`]aUWW\_¥][OXZRWS^]X^  
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+HWI-EAS443:3:9:589:1353#0/1  
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+HWI-EAS443:3:9:782:883#0/1  
a^\_\_¥a`a`[a¥\_\_\_\_\_¥`]S]\_¥`¥^¥Z¥XYSW¥WWYW  
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+HWI-EAS443:3:9:808:1779#0/1  
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+HWI-EAS443:3:9:960:1819#0/1  
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+HWI-EAS443:3:14:1365:834#0/1  
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aaba]^aba`aa`aaX\_aaa`a^a`]\_¥`\_\_\_\_a\_X[\_^`S  
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+HWI-EAS443:3:18:859:449#0/1  
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¥UY`\_]`\_`\_ba^ZRNT\_a^Y^ZQQ`]X[]Ya`aV`\_W[P  
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¥US¥[`b^Ta]\_`]ba^aaba`aa`a^aa]Wa]\_ULX\_[]  
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a```¥aS\_[\_\_ba]Z]b`b\_U^`W\_]WFUXQHZU¥[G]¥  
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+HWI-EAS443:3:27:220:990#0/1  
aa\_a\_WUR]PZR^Z`a[¥^YPXa`\_`\_aJRNT^[Q\_\_XLGZ  
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a\_aa]\_aaa`V]Sa[[\_aa\_\_ZL]\_\_`\_]WY^`\_\_\_R`WO  
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¥a\_\_U`^aV]b^\_]R\_Y[TRYVRYRN[WKX]YY[RVJXP  
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+HWI-EAS443:3:38:837:1423#0/1  
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a^YU`\_a^b\_aa[\_\_\_`[\_`\_]\_`Y`a`]¥`\_RY\_[^T`^V  
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\_ba\_a\_aba¥a`aabaaaa\_aaa\_b[\_`aaZ\_aaaa`\_V  
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+HWI-EAS443:3:43:1300:426#0/1  
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+HWI-EAS443:3:43:1765:1522#0/1  
aaa`aabb`a^abb`aaba\_```aa\_a`a`\_\_a`a`\_S



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a^FW`\_¥\_\_\_\_\_¥¥[TV¥`\_^SX0\_aP`Y\_a^^a]UVT  
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+HWI-EAS443:3:44:1240:509#0/1  
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+HWI-EAS443:3:47:1152:2029#0/1  
a^IZ^aba]\_\_`¥^`Z`^]\_\_\_¥`\_¥^^\_¥^\_]W^]S]  
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+HWI-EAS443:3:49:1656:1169#0/1  
a`aa\_a\_aa`a`aaa\_`b`aa\_``\_``\_`^V\_aV^\_\_^\_T  
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+HWI-EAS443:3:49:750:617#0/1  
Va[TWbbbbXHH`babaYbbb`\_babZX¥[a]^WXZIH\_^  
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+HWI-EAS443:3:50:1427:1099#0/1  
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+HWI-EAS443:3:51:532:83#0/1  
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`][W¥Zb¥a`\_]TVT^[`aX][`\_a``[S]]`a`a]Y¥¥  
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+HWI-EAS443:3:53:1682:426#0/1  
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+HWI-EAS443:3:54:767:276#0/1  
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``bb¥T^aa\_a^`IVaa`a`T`P``aa\_\_a\_\_a``aZ  
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aa^\_`Wbbaabaabaaaabb` `aaba`bbaa^a\_aW]a]W  
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+HWI-EAS443:3:5:1328:832#0/1  
][L[^^]Z^Y^\_\_X]VVXX`RTQ¥` `Y`^aU`BBBBBBBB  
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+HWI-EAS443:3:60:1570:1453#0/1  
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+HWI-EAS443:3:60:298:1936#0/1  
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+HWI-EAS443:3:61:1519:759#0/1  
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+HWI-EAS443:3:64:187:1510#0/1  
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+HWI-EAS443:3:66:568:919#0/1  
`aaaaX\_a\_aaaa`¥`¥)``\_`\_aW]¥X]\_`\_N^`¥Q  
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a`a\_aXaaaa¥\_\_a`a\_b`\_¥aaa\_\_a^\_aaaXaR`aa]H  
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+HWI-EAS443:3:68:1200:1466#0/1  
aa\_`aaaa`aa^ZU¥a\_a`\_¥VY\_\_RZ[[¥\_\_^^Z^\_^\_]  
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+HWI-EAS443:3:68:123:324#0/1  
aa`aaaabaaaaaaaaaaaaabaaa`aaa`\_`¥[¥`\_V]\_]  
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+HWI-EAS443:3:68:1351:1611#0/1  
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+HWI-EAS443:3:68:1517:405#0/1  
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+HWI-EAS443:3:70:994:993#0/1  
a\_F]\_^a`\_a\_`\_\_`\_`\_¥¥Xa`^^`\_a\_`\_\_`^`^¥Y^  
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aa`a`^a^aa`a`\_a`a][`a`^`\_\_`[[`\_a`\_`^`Y`^`Z`^  
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+HWI-EAS443:3:73:1353:1963#0/1  
ab[`b\_\_^ba[`aSba`a`^`aaaa`]a`a`\_Sa\_X`\_`]  
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+HWI-EAS443:3:76:1201:1487#0/1  
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+HWI-EAS443:3:78:1275:1958#0/1  
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aaa`\_aaabaaa\_aa^`aaa`a`a^`aa\_a`aaaa]` [  
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a¥D^aaba`\_aUaa¥`\_a`T[a\_\_\_¥a[\_\_\_WZZZUUQ¥\_\_\_  
@HWI-EAS443:3:79:166:387#0/1  
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+HWI-EAS443:3:79:166:387#0/1  
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+HWI-EAS443:3:7:409:510#0/1  
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+HWI-EAS443:3:92:1289:640#0/1  
YX][U¥`a¥\_`¥```bba`abaT^\_bVbb`UZ[Qb[¥GQ]  
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+HWI-EAS443:3:9:1165:391#0/1  
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¥¥````^bababZRN¥aaaa]ZM\_¥^Wa`¥Y[LDX``^]B  
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__¥`_`Z`¥___Z]]Y__YZ^X¥^`_]¥FOZ[Z]^Z[D¥]Y
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ab]aa]a_ab`a`b`_`aa_`DP_a``_]`^X¥`Y]X[Y^]
@HWI-EAS443:3:58:1130:1532#0/1
GCCTTGTGTGAATNGAATACTGGAGAATTGCCTTACCA
+HWI-EAS443:3:58:1130:1532#0/1
`^`^aa`ababb^D]bab¥W]]]Y_aa^a_a^aU_a`[Z`
@HWI-EAS443:3:58:722:286#0/1
GTAATTGGGTANCTCATTGCCATCATCCACTTCATTCTGA
+HWI-EAS443:3:58:722:286#0/1
aYW¥^¥Ya]QZD[XWX_¥`^]¥]X_Y_`]]`¥[¥¥¥][^S
@HWI-EAS443:3:5:633:1597#0/1
GTCTTAGTGAGTATCTCGCGAGTGCGGGACTGCGANATTA
+HWI-EAS443:3:5:633:1597#0/1
¥¥bbaab`bb`UbQ[aYa_b`^W¥IYba¥RZ¥0]YDV_`a
@HWI-EAS443:3:61:1180:1226#0/1
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+HWI-EAS443:3:61:1180:1226#0/1
`^`^D[`a``aa`aaa`aaaa`aa^``¥V`_]_`¥WXUW
@HWI-EAS443:3:61:1717:518#0/1
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+HWI-EAS443:3:61:1717:518#0/1
a^_VSa``aa]TRDX__a_a`]aY`a^__X_VVYYXVWRN
@HWI-EAS443:3:62:1133:1853#0/1
CAAGGACAAACCCNCTGGAGCAAAACAAACGATGCTGGAT
+HWI-EAS443:3:62:1133:1853#0/1
T_`__b`_bZb]WD[bbaabb`babbabbabb`abb`
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AGGGGACGTAGTGTGGTAATGAAACGAAACGNGACTCT
+HWI-EAS443:3:62:990:1748#0/1
aa^a`¥]aU]`[_a`¥T]^UQSY¥L[¥__]LXDXQW¥]S
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+HWI-EAS443:3:63:1375:479#0/1
a`XXDWZ_LNRZLPPUUGXZVLS[Y¥YVVNQY]^VDVVVQ
@HWI-EAS443:3:64:1765:85#0/1
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+HWI-EAS443:3:64:1765:85#0/1
aaaaa`aab`^ab__a^``W[W_`X[TDT^U`UZU¥WX¥W
@HWI-EAS443:3:64:576:1221#0/1
AAAAGAAGTGGAGATCTAATGTCGCAGTCCCGCACNCGC
+HWI-EAS443:3:64:576:1221#0/1
ab[a_baba_Y_bb^]aaaaa_a_aaa^`aa^aa^DZ`a
@HWI-EAS443:3:65:1032:884#0/1
GGAGAAACCTTGTTTTANGGACCAATTCTCTTCTAGCAT
+HWI-EAS443:3:65:1032:884#0/1
WX_a`bbbb`bbabab^DZbbbb``bbab]bbbab`aaaa

@HWI-EAS443:3:65:1188:1070#0/1
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+HWI-EAS443:3:65:1188:1070#0/1
¥`_]a¥]bJaXZb_^]ZTPY]_FS0¥Q]]UDFL][WZW]
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CAGTATTCTTGCCCCACTTCATTTGGGAANACAACCTCC
+HWI-EAS443:3:65:1326:558#0/1
abaaabbabbbababababbbabbbabbb^D^aba_ba^_
@HWI-EAS443:3:65:1670:411#0/1
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+HWI-EAS443:3:65:1670:411#0/1
aaaaaa`^D^aa`__a`_Z]^_^]_`^a]aaa^aa^a__a_
@HWI-EAS443:3:65:688:879#0/1
ATTGGGCAAGGGGACGTAGNGTTGGTAATGAAACGAAAAC
+HWI-EAS443:3:65:688:879#0/1
abab^`ba_]aba_aba_YD¥`baa^`a_]aaaNU]```U
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AAAGAACTGAGAGATCTAATGTCGCAGTCCCNCACTCGCG
+HWI-EAS443:3:66:932:1628#0/1
aab`aa^aa`_aaa^aaaa`a[a]`a_¥S_VDX¥ZU_UYW
@HWI-EAS443:3:67:1258:791#0/1
GTACTTTTTGATTANGGCCATATGGTCCACAGTGGTCTTA
+HWI-EAS443:3:67:1258:791#0/1
```abbbbbbb^DT`bba^a^¥^R¥``a`\_VXaUQ]a\_  
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+HWI-EAS443:3:67:338:1682#0/1  
aa^]Z`aU\_XDQ`\_a\_VZaa`aa\_a^^`\_\_^`\_^\_Y`\_Y^  
@HWI-EAS443:3:69:566:1229#0/1  
ACGACTTACANTTCTTGAAAGGATGCAGGTGCATTGACT  
+HWI-EAS443:3:69:566:1229#0/1  
aaaaa`^^aVDWa``aa\_^`a\_¥^`\_]\_\_ZZ¥]`\_V^`Z^  
@HWI-EAS443:3:6:230:1966#0/1  
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+HWI-EAS443:3:6:230:1966#0/1  
a\_b`]Z`]baa[baba`a]`\_[D[`a0aa`^`^`^`\_\_B  
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+HWI-EAS443:3:70:1176:1566#0/1  
aba¥D^b[[\_bb^a]aaa`aUaa`aa¥[```aa¥^\_W]¥]¥  
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+HWI-EAS443:3:71:207:950#0/1  
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@HWI-EAS443:3:72:1782:442#0/1  
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+HWI-EAS443:3:72:1782:442#0/1  
a]`\_\_^W\_UT\_PT¥PUX`QUW`¥`YV[VYVUQUV^PDRVY  
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+HWI-EAS443:3:72:701:1374#0/1  
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+HWI-EAS443:3:74:619:488#0/1  
abaa\_babbaaaaa``aaaaa]\_a\_aaV\_a\_^^VDX\_\_`^`  
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+HWI-EAS443:3:75:467:546#0/1  
aaa\_G\_bbb`X`ba\_`^`^]`baa^aaaaaaaaZUDZ[`  
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+HWI-EAS443:3:76:553:1466#0/1  
abbb``^DYbabbbbaaWaaaa^a\_\_``¥aaa`a\_\_\_\_\_`\_  
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+HWI-EAS443:3:76:638:2036#0/1  
^S^a`a`aaa¥`^a^¥`]^]ZR^aWRV]YZNXRDDVYRSS  
@HWI-EAS443:3:76:80:1182#0/1  
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+HWI-EAS443:3:76:80:1182#0/1  
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AAAATGGAATTTGAACATTTTCAGTCTNTTGTCCCTAAGG  
+HWI-EAS443:3:76:948:1143#0/1  
`ZT^^`\_Zbaa`\_]a¥aaa`a\_a`\_^YDYa`^\_\_\_\_\_``\_a  
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¥\_¥¥^[[bbbbbababbbbb``WDY]¥bVQ0a`b]XLS^  
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+HWI-EAS443:3:78:1189:2025#0/1  
aa\_`W\_a\_\_`V`\_X]\_`^\_]¥¥\_``^`¥]HDO]aRNY\_\_\_\_  
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GGAAAAGCACTNTTGCATCTTTTTGGAAATGCCTCAAGAG  
+HWI-EAS443:3:78:470:735#0/1  
aaaaa`ab\_a[D¥\_\_aa`\_\_\_\_`a\_SX]\_`^\_\_\_\_]]U\_W\_  
@HWI-EAS443:3:79:787:448#0/1  
GCTCCCTTGATGGTGGCGTACATGCTAGAANGAGAATTGG  
+HWI-EAS443:3:79:787:448#0/1  
a`\_ab``a\_]\_ba¥```^R[^]]\_\_aa``YD VW\_\_a^^`  
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AGAAGTGGAGATCTAATGTCNCAGTCCCGCACTCGCGAG  
+HWI-EAS443:3:7:360:1853#0/1  
]b]ab\_a]a`P^UaI\_\_\_\_`NNDU^OZ^Pb¥¥Z\_NVF[BBB

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aa\_\_R\_Q]aS`\_a`aU\_``[Z`^\_Y\_\_^XWDZYVRU]^  
@HWI-EAS443:3:81:151:665#0/1  
CTGTAATTGGGTATCTCATTGCCATCATCCANTTCATTCT  
+HWI-EAS443:3:81:151:665#0/1  
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+HWI-EAS443:3:84:124:448#0/1  
aaaaaaaaa` `[DZ\_`a`aa¥a\_`a\_W`\_\_^^¥¥¥¥^^  
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+HWI-EAS443:3:85:1241:1800#0/1  
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+HWI-EAS443:3:85:89:791#0/1  
a]aa\_^D¥a`^\_aa\_`a`\_aa]`a]\_\_X^\_`]^\_]]\_Z^  
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@HWI-EAS443:3:86:1563:1943#0/1  
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+HWI-EAS443:3:86:1563:1943#0/1  
\_bZ¥`\_ba]bbb[D¥baYa\_aaab]aba\_^R¥\_abXQUPa  
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+HWI-EAS443:3:88:207:1599#0/1  
¥a¥bbb`abbbbabbaabX`aX¥[DUYaYa`^^`aa\_^`  
@HWI-EAS443:3:8:1094:1853#0/1  
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+HWI-EAS443:3:8:1094:1853#0/1  
aa```aaaa`a]aaaa`\_`a[DWa\_^^aSa`UYVV^U\_R  
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+HWI-EAS443:3:8:1192:1929#0/1  
\_\_ba`aa\_abaa`aa^D^\_Zaaaaa\_[]`aaYaa`]\_`aa\_  
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+HWI-EAS443:3:8:1378:1667#0/1  
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abb```aaab\_^aaaaaaa¥DZ\_aaa\_¥`\_`\_\_a`\_`]a  
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+HWI-EAS443:3:90:203:1047#0/1  
aaZ\_¥Z^\_abUPS`[aTTa^aZ[^VG^`a\_\_VDXUYU[\_^  
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+HWI-EAS443:3:91:1083:737#0/1  
aaaa^a`aYD¥]SW\_Y`¥`]Z`a^^`\_RVLMZ^¥LP`UGW  
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+HWI-EAS443:3:91:1165:376#0/1  
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+HWI-EAS443:3:92:1160:327#0/1  
aa`Ybbaaba`ba`a¥a`a^DZ``aaZ]a`^^aa\_\_\_^a`  
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+HWI-EAS443:3:94:1275:823#0/1  
]`〕`\_\_\_ZZUa]D[\_`b\_\_bbabb\_ZTZZWZ`a`a^^`TL  
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aaSUDV]aa\_]\_aa\_ba\_a\_W\_Ia^H]\_^`\_[`\_\_a`\_\_\_  
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+HWI-EAS443:3:96:975:1553#0/1  
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+HWI-EAS443:3:97:1551:742#0/1  
aa`b\_\_aa^`aa`aa`^`Y\_a\_\_MDW\_`V[V\_^\_\_\_Z^\_X  
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+HWI-EAS443:3:97:952:1980#0/1  
a`ab^aa`[DS`aaa```[abaa^a\_ab\_a\_`aa\_\_`Raa  
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+HWI-EAS443:3:98:1073:1765#0/1  
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GTATTCTACAAGAGGATTNCATGATCAAGGCAGTTAGGG  
+HWI-EAS443:3:99:592:536#0/1  
a^`a`a`^`a`^`b`^a`aZDX`aa\_^\_a\_`aZ¥aV`VY¥B

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+HWI-EAS443:3:9:370:1176#0/1  
aaaa`a\_\_aa\_]a¥DRaa\_`]\_^]\_^`\_\_[V\_`^^]\_]Y  
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+HWI-EAS443:3:100:875:1616#0/1  
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+HWI-EAS443:3:10:935:517#0/1  
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CACCCGTTTTCGTTTCATTACCAACTACGTCCCCTTGC  
+HWI-EAS443:3:11:1480:311#0/1  
`\_\_\_\_]bYbaaaa\_]\_Tabaa¥V`^`¥`b\_TSY][VV]]`B  
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GCGCGATCTGAACCTTGTCAATAGGGCAAACCAGCGACTG  
+HWI-EAS443:3:12:759:191#0/1  
a\_`\_a]\_\_\_\_\_¥`^^W^`¥¥^V¥`¥`¥U]XWWWUXVWWWUB  
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+HWI-EAS443:3:13:431:1105#0/1  
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+HWI-EAS443:3:14:1188:1818#0/1  
aaa`\_`\_0]\_\_VXH0]^YaVY\_Q]QS¥\_ZXZW^W^^ZQGGV  
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CACAGATTGGAGGAGTAAGGATGGTGGACATCCTTAGAGA  
+HWI-EAS443:3:16:1368:947#0/1  
Z^Q[^S`\_]`\_¥`aV\_S\_]¥`^Xa[K\_`[¥¥a¥S\_Z¥bWJH  
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+HWI-EAS443:3:17:733:833#0/1  
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+HWI-EAS443:3:1:684:1115#0/1  
[\_Z\_aa[\_bbbb]aa\_Z^aa^[ab`baaaba``[\_^^UaB  
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+HWI-EAS443:3:20:1112:324#0/1  
abbabbbb\_V`aU`a]b^¥`JX`aaaa^R` ``Q[¥bUa  
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CGATGGCAATGAGATACCCAATTACAGCAGACAAGAGAAA  
+HWI-EAS443:3:20:865:1547#0/1  
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+HWI-EAS443:3:20:924:1181#0/1  
[\_abbabbbbabbabbb\_Zbb]baaaa[aaa`a\_]b\_  
@HWI-EAS443:3:22:1197:2028#0/1  
ACTTCTCATT TTTGGGCAAAGAAGACAAGAGATATGGCCCA  
+HWI-EAS443:3:22:1197:2028#0/1  
a)`^Y\_¥\_\_\_\_\_^^XW\_]\_^\_Z^^^ZZ\_[^ZZX^XZ^  
@HWI-EAS443:3:22:1389:1494#0/1  
CGCCCGTTTTCGTTTCATTACCAACTACGTCCCCTTGC  
+HWI-EAS443:3:22:1389:1494#0/1  
YbW¥\_]K^bU¥Ub`] `bbb¥`] `Y\_a`VaP`VDPPS^\_HW  
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+HWI-EAS443:3:22:837:751#0/1  
¥WY]\_aYZR]]TNT\_QYZR^a` `aRGRHLX^\_TWQaZ[FU  
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+HWI-EAS443:3:23:862:1570#0/1  
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CGAGCAGTCAATTGCTGAGGCAATAATTGTGGCCATGGGA  
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+HWI-EAS443:3:26:1625:1805#0/1  
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CACCCGTTTTCGTTTCATTACCAACTACGTCCCCTTGC  
+HWI-EAS443:3:26:616:384#0/1  
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GAAGTGGATGATGGCAATGAGATACCCAATTACAGCAGTC  
+HWI-EAS443:3:27:1215:1789#0/1  
\_`b`S¥¥]^\_a`]aaa`UJ\_`\_\_a`Z]a\_a`¥Z`\_`[\_TM  
@HWI-EAS443:3:27:259:1437#0/1  
AAGGACATGATTCCAGAGAGGAATGAACAAGGACAAACCC  
+HWI-EAS443:3:27:259:1437#0/1  
a^Z\_bb^a`aaaaa`a\_YaaaaaaaaaaaaX\_aaaa]a`

@HWI-EAS443:3:27:55:1358#0/1  
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+HWI-EAS443:3:27:55:1358#0/1  
`Z`aa^Z^`a\_]\_^`]^a\_`\_`a`]`\_XW]Z^\_WW[^  
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+HWI-EAS443:3:28:828:1133#0/1  
aababb\_``\_baa```[b]^a`a`a]aaa¥a`[`¥^]U[  
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a`babbb`babbaaaaa`aaa\_b\_aa`a\_^`\_`\_`\_XDX  
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+HWI-EAS443:3:2:249:655#0/1  
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+HWI-EAS443:3:2:34:1706#0/1  
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+HWI-EAS443:3:2:792:1984#0/1  
a\_\_Oa¥`^a^GS\_I\_aSa\_^\_¥]XQUW\_UWVXVVRVBBB  
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+HWI-EAS443:3:30:1003:1620#0/1  
a``T]`¥bU`]^`^HPH]a[`RT\_\_`¥]\_Qa\_\_Z`YUMWT  
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+HWI-EAS443:3:30:1311:671#0/1  
ZP\_Z\_U\_\_baT^\_a\_KY¥Z\_QHQX]P\_\_`G\_G¥TNV^TLZ  
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+HWI-EAS443:3:30:353:313#0/1  
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+HWI-EAS443:3:30:371:732#0/1  
ab\_Z^X]XYZST]^]TQ\_] [[S\_YXJSVBBBBBBBBBBBB  
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+HWI-EAS443:3:30:580:19#0/1  
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GCGGTATCTCATTGCCATCATCCACTTCATTCTGAGTGCG  
+HWI-EAS443:3:30:641:453#0/1  
aaa`U^ab\_\_]]`]`¥]]^¥^`^ZZ`\_¥\_\_\_ZUVW[V\_W^  
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+HWI-EAS443:3:30:871:359#0/1  
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+HWI-EAS443:3:30:964:48#0/1  
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+HWI-EAS443:3:32:1688:1361#0/1  
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K\_bbbbbbababbbba`aabbbb[bbbbbbb`aba`baba  
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+HWI-EAS443:3:34:1492:1883#0/1  
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¥DTa¥a`aaaaa\_aaaaa[\_a\_\_aRU^\_Z\_V^¥¥¥V¥TY  
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+HWI-EAS443:3:35:1438:1654#0/1  
`\_`\_ba¥bbb``aa``aaPU¥W\_\_aXZM`YRYJ]\_¥¥`N\_  
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+HWI-EAS443:3:35:232:413#0/1  
aa`aaaab`aaa`aaaa`Vaa`a`^\_aa\_¥a[RY[^¥M¥  
@HWI-EAS443:3:35:526:1664#0/1  
TNCCCTTCATGTACTCTTATTTTCAGTGTGGAGGTTGC  
+HWI-EAS443:3:35:526:1664#0/1  
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+HWI-EAS443:3:36:1270:1689#0/1  
TX`a\_S\_bbbasX`Xabba[\_bbbaba`aaaaXa\_bbY¥`  
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+HWI-EAS443:3:37:494:1071#0/1  
\_TL¥]`T`Yaa[\_Y[\_Y^`\_HRZQ\_[`RWNLKNW[R^WP¥  
@HWI-EAS443:3:37:719:1969#0/1  
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+HWI-EAS443:3:37:719:1969#0/1  
¥D][\_aVa]\_aa``¥b`\_`abb`bba\_abHTaaa``aa\_\_



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+HWI-EAS443:3:38:1662:1586#0/1  
aVa^H]S^ZSbPYZYOV\_^¥Y][YVYJO`GRVJQFV`YLF  
@HWI-EAS443:3:38:609:1110#0/1  
GNGAGATCTAATGTGCGAGTCCCGCACTCGCGAGATACTC  
+HWI-EAS443:3:38:609:1110#0/1  
[DU\_Y\_aaaaaaa[aa`a`[aab\_\_H\_UaYR^`\_¥\_¥PYV  
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+HWI-EAS443:3:39:1691:1857#0/1  
]^Z^¥`a^]S]a`^ba\_\_^\_W]^`K`^[]^a]]]R`]]]SF  
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+HWI-EAS443:3:3:1102:801#0/1  
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+HWI-EAS443:3:3:810:452#0/1  
R[^¥``¥]`bY\_`b`aVb\_b\_ab\_b`[[]`\_\_aa\_aZ¥DI  
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+HWI-EAS443:3:3:856:334#0/1  
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CAAGGATTTCTCATTGTTGGCAAAGAAGACAAGAGATATG  
+HWI-EAS443:3:42:105:448#0/1  
a`Y\_\_TTa¥]^`[\_a\_W`a`a`X^¥`aZQ]^U]^[]^aXV  
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+HWI-EAS443:3:44:1530:892#0/1  
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^ba`abb^[X[ba]b`aa]abUG]W\_\_`^^Q``¥`\_\_¥EV  
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+HWI-EAS443:3:45:653:793#0/1  
[] []baZR]b\_\_bb`¥`a]XFU\_a¥a\_a]a^VW\_] ^a\_HW  
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+HWI-EAS443:3:47:1108:573#0/1  
aabb¥¥`aaa¥P\_a\_YL¥Vab^Uaaaab\_^a^J\_I` `aY  
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+HWI-EAS443:3:47:232:599#0/1  
^]a^XX^`b\_^] ` \_ ] ] \_ [W[ZBBBBBBBBBBBBBBBB  
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+HWI-EAS443:3:47:539:1545#0/1  
a\_]bbab\_abaaaabbabab\_aa]WaK^^aX` ` []WaaRY  
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+HWI-EAS443:3:48:131:168#0/1  
aY]\_`b]a`aa¥S¥a`aa`a`Y\_\_XaY]`\_aY]]Y^[P¥T  
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^[bbba`b\_\_] `]Y]Z`b¥bbabb[bbaa¥¥baaY`baYa  
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V]]X\_aa[a^a[a^ba` [¥\_aba\_aa\_\_a`\_aaS[XaTDX  
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+HWI-EAS443:3:4:1446:1102#0/1  
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+HWI-EAS443:3:50:1128:378#0/1  
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+HWI-EAS443:3:50:465:2023#0/1  
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+HWI-EAS443:3:51:1708:939#0/1  
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+HWI-EAS443:3:54:15:1561#0/1  
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+HWI-EAS443:3:56:1345:1363#0/1  
`¥a\_bab\_Xb\_a`¥^\_]b\_Xab]a`b`ab\_¥aRab\_\_a  
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+HWI-EAS443:3:58:1189:1698#0/1  
]YZ]YISYba`aaY]RX\_\_XT¥aa\_^\_a\_¥a[T]a¥\_`G]  
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+HWI-EAS443:3:59:264:1635#0/1  
R\_Ya¥¥^¥[N]Z¥P]b`^`bV[\_a¥W\_`^^`[T]^WY[Y  
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+HWI-EAS443:3:59:904:783#0/1  
^V]`\_]X\_\_P]ZZ]^\_Y^RO[[T^U]` `L[[YZDMXFM  
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+HWI-EAS443:3:60:407:295#0/1  
abb`abIaba\_bZ^`\_]`^`¥Y\_\_\_\_`^`^]V^]WS^¥V^  
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+HWI-EAS443:3:61:1168:1252#0/1  
aNR¥^\_R`\_`\_\_^PZY` [¥UXST\_¥WU^VFF^OZRWXXYG  
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+HWI-EAS443:3:61:1638:93#0/1  
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+HWI-EAS443:3:62:1515:1350#0/1  
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@HWI-EAS443:3:62:481:1913#0/1  
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+HWI-EAS443:3:62:481:1913#0/1  
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+HWI-EAS443:3:64:1260:576#0/1  
a]\_aaaa]b`\_]\_\_a¥` `^`\_¥¥\_]\_\_a]]Z` `YaRV^`^`  
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+HWI-EAS443:3:64:1641:707#0/1  
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+HWI-EAS443:3:65:904:1726#0/1  
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+HWI-EAS443:3:66:1281:886#0/1  
a`T\_ba\_aaaab^aaabaaa`[`][`a\_\_^a^a\_`]\_Z¥^  
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ATTCTGCTGTCTGAGAGGATTTCTCATTTTGGGCAAAGA  
+HWI-EAS443:3:68:239:255#0/1  
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+HWI-EAS443:3:68:442:320#0/1  
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GCCAGGGTTTGTATCAACTCTCCTTATTTTAACTTAA  
+HWI-EAS443:3:6:158:1654#0/1  
abba`XQN\_^VY¥aaaV^aa\_a]]`a`^]a`\_`^BB  
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ANAAGAAGTCTAATGTCGCAGTCCCGCACTCGC  
+HWI-EAS443:3:6:190:657#0/1  
^D¥b`[baabaaba`aaa]ba\_\_a^\_\_^¥`^¥`¥^^¥\_B  
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TGATTCCAGAGGAATGAACAAGGACAAACCCTCTGGTG  
+HWI-EAS443:3:70:1537:1766#0/1  
a\_^X¥VUP^U[S[^[YZX\_YLGWXZ]VY[\_[X[^[]]`WZ  
@HWI-EAS443:3:70:234:1263#0/1  
GAGAGGATTTCTCATTTTGGGCAAAGAAGACAAGAGATGG  
+HWI-EAS443:3:70:234:1263#0/1  
\_XYVaX[Xaaaa`¥a\_a`]0^`]U]]a[S^a\_XXSX¥¥ZG  
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GATGGCAATGAGATACCCAATTACAGCAGACAAGAGAAAG  
+HWI-EAS443:3:71:1275:161#0/1  
aaaaaaaa`a^¥]``\_]`aaaaZ``\_a`^\_\_a```\_]`\_`  
@HWI-EAS443:3:72:1353:945#0/1  
TGGGTGGGTTCACTTTCAAAGGACAAGCGGATCATCAGT  
+HWI-EAS443:3:72:1353:945#0/1  
[b]`]aa]¥aVa]aaaab\_a\_]`\_a\_aaWaa]a\_a`^^^^`  
@HWI-EAS443:3:73:1587:730#0/1  
TGCCCTTCATGTACTCTTATTTTCAGTGTGGAGGTTGC  
+HWI-EAS443:3:73:1587:730#0/1  
[a]\_H¥VX^bb¥XH¥Y\_]Y]Za\_RaaVY0^Y¥bW]]LUYB  
@HWI-EAS443:3:73:1719:246#0/1  
GGCCCGTTTTCGTTTCATTACCAACTACGTCCCCTTGC

+HWI-EAS443:3:73:1719:246#0/1  
`GUT\_\_[^^YR[Y`a[\_`]TT\_]\_TSUXUSRUZSJXYX]V  
@HWI-EAS443:3:73:324:129#0/1  
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+HWI-EAS443:3:73:324:129#0/1  
abbabbaabbab\_a\_\_aaabaaa\_a]aa\_a\_\_[^^^[[[  
@HWI-EAS443:3:73:902:846#0/1  
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+HWI-EAS443:3:73:902:846#0/1  
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@HWI-EAS443:3:74:119:1645#0/1  
GCTGCCGTTAGCACTTCTTCTTCTTCTTGACTGATGAT  
+HWI-EAS443:3:74:119:1645#0/1  
\_QPaa^^`\_UIXSVaaaa[[`^]a\_XZWSaXQWWaV[\_R  
@HWI-EAS443:3:74:165:1802#0/1  
GCTGGGTTCACTTTCAAAGGACAAGCGGATCATCAGTCA  
+HWI-EAS443:3:74:165:1802#0/1  
a\_H]baVWabaa]P]b¥`^Q[Yba]W][LU\_^¥]Ya[\_aX  
@HWI-EAS443:3:75:1716:1681#0/1  
AGGCCGTAGACATATGCAAGGCAGCAATAGGGTTGAGGAT  
+HWI-EAS443:3:75:1716:1681#0/1  
aa[b]baab\_Z`a\_a\_aaa[\_`^^^\_\_`a^`[`¥[T]\_`  
@HWI-EAS443:3:75:521:2038#0/1  
ACGTGTTTATATTGAAGTGTGCACTTAACCCAAGGGACG  
+HWI-EAS443:3:75:521:2038#0/1  
aa\_]\_abaaaab`a`[\_]`¥`abaaaaaaabaaaY``aa  
@HWI-EAS443:3:76:1138:1199#0/1  
TGCCCGTTTTCGTTTCATTACCAACTACGTCCCCTTGC  
+HWI-EAS443:3:76:1138:1199#0/1  
`aaaaab\_aaaa`SV]a`\_b`\_a`\_a\_aa`\_^Y^^]\_`U  
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ATAGTCTGCTGTCCTGAGAGGATTTCTCATTGTTGGGCAA  
+HWI-EAS443:3:78:1508:1572#0/1  
aa\_aWa`^GZ`YRSa]Sa`¥^^`^`W\_]^\_aaaY\_[VT]^  
@HWI-EAS443:3:78:1541:207#0/1  
GAGAGGATTTCTCATTGTTGGCAAAGAAGACAAGAGATGG  
+HWI-EAS443:3:78:1541:207#0/1  
aababa\_aba]bXaaaa`a]]Z]\_^\_`][a^a^^]X]^  
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+HWI-EAS443:3:78:1668:1500#0/1  
aaaa^b^aba`\_ababbab[[`aaa`a``\_\_\_^Z`ZSS  
@HWI-EAS443:3:78:938:557#0/1  
GCGTGGAGTCTGCTGTCCTGAGAGGATTTCTCATTGTTGGG  
+HWI-EAS443:3:78:938:557#0/1  
a\_a[aa\_aVZ\_a`a¥`\_aa^a^a`]\_`\_`¥\_a`\_\_\_\_]\_  
@HWI-EAS443:3:79:1692:368#0/1  
CCCGCACTCAGAATGAAGTGGATGATGGCAATGAGATAGT  
+HWI-EAS443:3:79:1692:368#0/1  
a]Yb```a^ab`ba^¥b\_abb`aa`a`a\_\_ab¥a^\_V`\_`

@HWI-EAS443:3:7:572:1214#0/1  
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+HWI-EAS443:3:7:572:1214#0/1  
aX\_^a]aaa]`V]\_]\_]a]\_\_`]W\_`^^^Z`\_^] ^YVSZ  
@HWI-EAS443:3:81:1621:69#0/1  
GATGGCAATGAGATACCCAATTACAGCAGACAAGAGAAAG  
+HWI-EAS443:3:81:1621:69#0/1  
\_bbb\_`abaa`abbbaa\_abaaa¥aa^\_[YT``^b\_aa`\_  
@HWI-EAS443:3:81:302:1401#0/1  
CGGGTGGGTTCACTTTCAAAGGACAAGCGGATCATCAGT  
+HWI-EAS443:3:81:302:1401#0/1  
\_\_bb[b`aRXaaaababb\_\_U`aY`aS]aaaa\_aaaaa`^  
@HWI-EAS443:3:81:550:464#0/1  
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+HWI-EAS443:3:81:550:464#0/1  
]bba\_\_```XI^ab`aa`babba\_a`ababaa]`aaa\_``  
@HWI-EAS443:3:83:30:1707#0/1  
GAGGACGTAGTGTGGTAATGAAACGAAACGGGACTCTA  
+HWI-EAS443:3:83:30:1707#0/1  
a^W¥\_a\_T\_¥SaP^b]]`\_\_Z¥Z`Y\_a\_UTLX\_[^`\_`W]  
@HWI-EAS443:3:84:204:1969#0/1  
ATGATTTCTCATTTTGGGCAAAGAAGACAAGAGATATGGC  
+HWI-EAS443:3:84:204:1969#0/1  
aa^aa¥\_\_\_aQ`\_YPQM^aW][\_[HXaa\_TYU\_]0`WXU`  
@HWI-EAS443:3:84:280:1882#0/1  
TAGGAATGGCCCAACAACAAGTACAGTTCATTACCCTATG  
+HWI-EAS443:3:84:280:1882#0/1  
ZbbabY`WQ\_baab`^]b^a`YaZIOY]]aaXaaYa^bZ^  
@HWI-EAS443:3:84:386:1085#0/1  
CACCCGTTTTCGTTTCATTACCAACTACGTCCCCTTGC  
+HWI-EAS443:3:84:386:1085#0/1  
aa``ab^`a``a]Ya`\_`^`\_a`Y`\_\_\_a\_\_Y\_\_^W^X]]  
@HWI-EAS443:3:86:1114:1086#0/1  
AAGTGGACAGGGCCGAAGGTACCATGTTTCAACCTTTCAA  
+HWI-EAS443:3:86:1114:1086#0/1  
aab\_a]aaaa\_Z¥]aa\_aV```a`a````a`TN[\_\_\_^`^`  
@HWI-EAS443:3:86:1234:306#0/1  
GGGGTCTGATCCAGCATCGTTTGTGTTTGTCTCCAGAGGGTT  
+HWI-EAS443:3:86:1234:306#0/1  
ab`]^a\_baaa\_ab^aaaa]aab```aaa\_`¥R\_\_\_aa`T`  
@HWI-EAS443:3:86:494:1169#0/1  
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+HWI-EAS443:3:86:494:1169#0/1  
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@HWI-EAS443:3:87:285:1308#0/1  
CACCCGTTTTCGTTTCATTACCAACTACGTCCCCTTGC  
+HWI-EAS443:3:87:285:1308#0/1  
a\_aabaaabbbbabbaabababbbbaaaabaa\_a\_a]]a`a`  
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CACCCGTTTTCGTTTCATTACCAACTACGTCCCCTTGC

+HWI-EAS443:3:87:288:1130#0/1  
aaaaaa\_Zaaaa^\_aaaa`a\_aaX¥`^`^aaa]`\_a\_]\_^`  
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+HWI-EAS443:3:88:103:1737#0/1  
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TAATGTGCGAGTCCCGCACTCGCGAGATACTCACTAAGCC  
+HWI-EAS443:3:88:130:1897#0/1  
`a`aa¥YD¥aXKa`VZ^^Z^¥a`^]]]\_SWUaa¥¥]PBB  
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+HWI-EAS443:3:88:893:50#0/1  
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GGAGAGGATTTCTCATTGTTGGGCAAAGAAGACAAGAGATG  
+HWI-EAS443:3:89:1089:821#0/1  
a\_Y^YZ\_\_\_aaaa`aaa`aaaaa[[aa[aa\_Xaa`]W\_^]  
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CACCCGTTTTCGTTTCATTACCAACTACGTCCCTTGC  
+HWI-EAS443:3:89:75:474#0/1  
`¥`a`aa`abab\_aaa`a`aaaaaa`\_a\_a]^U`]^`^`\_  
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GATGGCAATGAGATACCCAATTACAGCAGACAAGAGAAAG  
+HWI-EAS443:3:8:1051:1157#0/1  
¥\_R`\_`W`]^\WSLY¥bZ]S¥\_aYG`PGUJ]RS`a[I`X^V  
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GCTGTCTGAGAGGATTTCTCATTGTTGGGCAAAGAAGAAAG  
+HWI-EAS443:3:90:1101:848#0/1  
ab```bba[E[aaa`abaaba]aaaa\_\_a\_aaaa\_aaaa`  
@HWI-EAS443:3:90:1649:1684#0/1  
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+HWI-EAS443:3:90:1649:1684#0/1  
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AGCCCTTCATGTACTCTTATTTTCAGTGTGTTGGAGGTTGC  
+HWI-EAS443:3:90:508:657#0/1  
Yabbbbb`baa`ababb`abab`[Pb```b]^]]R^^Z  
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CACCCGTTTTCGTTTCATTACCAACTACGTCCCTTGC  
+HWI-EAS443:3:91:152:1734#0/1  
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GGGAGAGGATTTCTCATTGTTGGGCAAAGAAGACAAGAGAT  
+HWI-EAS443:3:92:1115:1669#0/1  
aa]`\_[V¥¥QZ^TZ^`[aYUWYa`^¥\_¥`Z`[V`]\_]`]]T  
@HWI-EAS443:3:92:1378:190#0/1  
AGAGGCACATCTGGGGTGGAGTCTGCTGTCCTGAGAGGAT  
+HWI-EAS443:3:92:1378:190#0/1  
abaaa¥a`baaaaaaa¥a`aaZ¥aa\_```\_`^a[a\_a^Z^



@HWI-EAS443:3:92:1433:1540#0/1  
GCCTTGCATATGTCTACGGCTTGTTCCTCAGTTGGATTTT  
+HWI-EAS443:3:92:1433:1540#0/1  
aa\_aaa`abaaba\_aa\_a^a`LS\_YOQOHWP[RYER]SU  
@HWI-EAS443:3:92:926:211#0/1  
CCCCGACTCAGAATGAAGTGGATGATGGCAATGAGATAAA  
+HWI-EAS443:3:92:926:211#0/1  
`babbbaaaaba\_aa`^bTaa`a\_]\_a^]]\_a[aS]¥][  
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CACCCGTTTTCGTTTCATTACCAACTACGTCCCCTTGC  
+HWI-EAS443:3:96:1109:546#0/1  
abba`b`bbbaaabb]abbb\_\_a^]aaaa^a`aW][\_XY\_  
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+HWI-EAS443:3:96:1411:1408#0/1  
][ba]bb`bUWaa]baa\_Wa]`a^)`a`aJGa`\_YaaG\_  
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+HWI-EAS443:3:97:939:767#0/1  
a\_a\_\_babbbba¥abb\_bbbb`b`aaabaaa`S]`aa\_¥  
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+HWI-EAS443:3:99:1716:1276#0/1  
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+HWI-EAS443:3:9:1388:1431#0/1  
[b]\_\_Ka`bbYa`ab`a`a^`a`¥a`aa\_\_a`^^^a  
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+HWI-EAS443:3:9:1598:1720#0/1  
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GGGGCCATGGTATTCTCACAAGAGGATTGCATGATCAAGG  
+HWI-EAS443:3:9:1603:499#0/1  
``]aZ^a`a]Q`a\_\_^Y\_Z``]aURU\_\_YW^^¥WNZW`B  
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GACCCGTTTTCGTTTCATTACCAACTACGTCCCCTTGC  
+HWI-EAS443:3:9:1744:1955#0/1  
Vb\_\_[\_`bb[aaab^bba\_¥\_aa]bUa`\_aXMJYW``R  
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+HWI-EAS443:3:9:50:1742#0/1  
YD[\_`^`^Y]`aaaaaabab`a`aaaa`^^`^Y]^`aa  
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+HWI-EAS443:3:9:80:309#0/1  
aab`aaaaaaabaaaaaaa`\_`aaa\_a\_\_^`^`^`^`  
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GGGTGGGTTCACTTTCAAAGGACAAGCGGATCATCAGTC

+HWI-EAS443:3:100:67:766#0/1  
\_bb^bbba`\_\_abaaa`aaaa`aa`a`\_a^aa\_aa]\_  
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+HWI-EAS443:3:100:876:872#0/1  
abbbabbababbbbaabbabba\_a`ba`aba]baaa\_a¥a  
@HWI-EAS443:3:10:1415:151#0/1  
CGGGTATCTCATTGCCATCATCCACTTCATTCTGAGTGCG  
+HWI-EAS443:3:10:1415:151#0/1  
^`aW\_\_\_\_]\_`babZO\_]aaQE[Z`^¥Za]SZa\_¥XWHZ  
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CTGATGTGTACTTTTTGATTATGGCCATATGGTCCACAGG  
+HWI-EAS443:3:11:1685:517#0/1  
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ATCCCGTTTTCGTTTCATTACCAACTACGTCCCTTGC  
+HWI-EAS443:3:11:557:755#0/1  
a`bbbaVabab]\_aa^]a`\_`^\_a\_a`a\_aW¥\_\_¥\_]^[  
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ACCCGTTTTCGTTTCATTACCAACTACGTCCCTTGCC  
+HWI-EAS443:3:11:951:617#0/1  
aba\_^Yabb`b]abaaabb^^`a\_aaaa[^\_`WTZa`a` [  
@HWI-EAS443:3:12:425:161#0/1  
CGCGATCTGAACCTTGTCAATAGGGCAAACCAGCGACTGA  
+HWI-EAS443:3:12:425:161#0/1  
G^bb¥aX¥YWXbTbb\_a]UYab]bbTK^bQ`Z]aaV\_a\_^  
@HWI-EAS443:3:12:460:836#0/1  
AGGTGGGTTCACCTTCAAAGGACAAGCGGATCATCAGTC  
+HWI-EAS443:3:12:460:836#0/1  
ab\_Wa`a0aa`\_b`aaaaaaaa[aaa```aa\_W\_aaaa^]  
@HWI-EAS443:3:12:749:1147#0/1  
GTGGGTATCTCATTGCCATCATCCACTTCATTCTGAGTGC  
+HWI-EAS443:3:12:749:1147#0/1  
aQa`aN\_```\_\_a`\_^`\_\_`¥\_]¥¥``\_^\_YS¥X¥\_W`W  
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+HWI-EAS443:3:12:945:1270#0/1  
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+HWI-EAS443:3:13:1325:996#0/1  
aaabbaaab\_ab\_aaaab`aa`a\_aaa\_]aa`\_\_aa`]aa  
@HWI-EAS443:3:13:389:657#0/1  
ATAGGAATGGCCCAACAACAAGTACAGTTCATTACCCTAT  
+HWI-EAS443:3:13:389:657#0/1  
abbbababbaaabbbbababbbb\_aaab```bbabaaaa`\_  
@HWI-EAS443:3:13:482:1111#0/1  
ACCCGTTTTCGTTTCATTACCAACTACGTCCCTTGCC  
+HWI-EAS443:3:13:482:1111#0/1  
^\_``aP``][aV\_\_\_\_aaaaa][Ya\_P]^^UVW\_\_NQ]ZU

@HWI-EAS443:3:13:684:1444#0/1  
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+HWI-EAS443:3:13:684:1444#0/1  
`Za`RXZP[MWU`aa`\_\_Y\_aQ\_\_]¥UMSNV[VP^]BBB  
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+HWI-EAS443:3:14:114:1828#0/1  
abaa^^aaa\_`aaaaaa`aaaaaa`a]aaaa^a[\_W\_a  
@HWI-EAS443:3:14:674:566#0/1  
AAAAGAAGTCTAATGTTCGAGTCCCGCACTCGG  
+HWI-EAS443:3:14:674:566#0/1  
T\_b`¥U\_aaaa\_]aa]aba`ab¥`^ab`aa][\_SN[] [F  
@HWI-EAS443:3:15:1056:157#0/1  
AGGGTATCTCATTGCCATCATCCACTTCATTCTGAGTGCG  
+HWI-EAS443:3:15:1056:157#0/1  
abbb\_bbbbbbbbaaaaaaaaa`aaaa`aaa\_aaaa]aZa  
@HWI-EAS443:3:15:106:1250#0/1  
CTCCCGTTTTCGTTTCATTACCAACTACGTCCTTGC  
+HWI-EAS443:3:15:106:1250#0/1  
`Y`aabVQ¥\_\_b]X]\_aa`a\_\_a\_\_`\_`a\_] [PW`]V`]  
@HWI-EAS443:3:15:211:851#0/1  
GGGTGGGTTCACTTTCAAAGGACAAGCGGATCATCAGTC  
+HWI-EAS443:3:15:211:851#0/1  
aa^Ja]bV^S[\_\_ba`b^X^]\_]aa\_Tba`¥`aa`abY`  
@HWI-EAS443:3:15:243:405#0/1  
GCCGTTAGCACTTCTTCTTCTTCTTACTGATGATCCGC  
+HWI-EAS443:3:15:243:405#0/1  
abbb]a`a\_[a¥aaaaa][ZT\_a`NL]Za^]][^¥S[V`^  
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ACCCGTTTTCGTTTCATTACCAACTACGTCCTTGC  
+HWI-EAS443:3:15:315:1126#0/1  
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¥babb\_aaabb^aabaaaaaabaa`aaaa^a^Z^ZXLQV  
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+HWI-EAS443:3:38:786:1195#0/1  
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+HWI-EAS443:3:47:1155:72#0/1
a]Z__JZab_[H¥a`]aaa[]__V_ZS_V__[W[QRYWLR
@HWI-EAS443:3:47:1405:555#0/1
CCTGCTGTAATTGGGTATCTCATTGCCATCATCCACTTCA
+HWI-EAS443:3:47:1405:555#0/1
aabbbbbb`bbbbbbbab]a]baabaaaaaaaa[a_baZ`
@HWI-EAS443:3:47:1732:1326#0/1
TGTGGGTTCACTTTCAAAGGACAAGCGGATCATCAGTCA
+HWI-EAS443:3:47:1732:1326#0/1
N^G]`bb`a^`bbbb_]¥bbZbY]]_G[abaa_`R^]X`_
@HWI-EAS443:3:48:1180:390#0/1
CCCCCACTCAGAATGAAGTGGATGATGGCAATGAGATACA
+HWI-EAS443:3:48:1180:390#0/1
abababbb_bbaabb``babbaabaabb`aaababaaa[`
@HWI-EAS443:3:48:257:1263#0/1
CGGGTATCTCATTGCCATCATCCACTTCATTCTGAGTGCG
+HWI-EAS443:3:48:257:1263#0/1
`¥]bSba`abbaaaaaabaaaa]a^`aaaa`a`^^^aV`
@HWI-EAS443:3:48:988:216#0/1
ACCCGTTTTCGTTTCATTACCAACTACGTCCCCTTGCC
+HWI-EAS443:3:48:988:216#0/1
aa_abXabaaa_aa`aaaa_¥_`^aa¥a``[_ZUTY]`_U
@HWI-EAS443:3:49:1364:1155#0/1
CGTTAGCACTTCTTCTTTCTTGGACTGATGATCCGCTN
+HWI-EAS443:3:49:1364:1155#0/1
YaKU_bbXabbb`aaaUZaa`bZb]M]b``baaba]b_^D
@HWI-EAS443:3:49:489:330#0/1
GGAGAGACGAGCAGTCAATTGCTGAGGCAATAATTGTGGG
+HWI-EAS443:3:49:489:330#0/1
aaa`aa`ba`_^aRP__a`Ia¥_¥_]a`V__^`[X_VF
@HWI-EAS443:3:49:567:37#0/1
GAACTGTACTTGTGTTGGGCCATTCCCTATTCCACCATGC
+HWI-EAS443:3:49:567:37#0/1
a^_WYaZ_R^bbbab_aba_`ab^`]`__a_Z]^TV]_aa
@HWI-EAS443:3:49:614:631#0/1
TGGGGACGTAGTGTGGTAATGAAACGAAAACGGGACTCT
+HWI-EAS443:3:49:614:631#0/1
`b_aaaab`a__aVbbaYT^aa[abPa`aaaHaaa¥R`]_

@HWI-EAS443:3:4:1329:1317#0/1
TGGGGCGATCTGAACCTTTGTCAATAGGGCAAACCAGCGAC
+HWI-EAS443:3:4:1329:1317#0/1
aaa_`^]_¥¥__[^Ya` `` `¥_]_Z` _[W^[¥W¥¥^VVVW
@HWI-EAS443:3:4:1612:1855#0/1
TACTACTAAGACCACTGTGGACCATATGGCCATAATCAT
+HWI-EAS443:3:4:1612:1855#0/1
aa^_[b`aaabaV_`__b]a`_¥_]_^a¥[]_V^`YV]B
@HWI-EAS443:3:4:378:419#0/1
TAATGTGCAGTCCCGCACTCGCGAGATACTCACTAAGAA
+HWI-EAS443:3:4:378:419#0/1
`^[aaUY^¥baaUGTU[[[VPZX]XQP`UY^TRQ]]_UBB
@HWI-EAS443:3:4:59:1868#0/1
GAAGTGGACAGGGCCGAAGGTACCATGTTTCAACCTTCA
+HWI-EAS443:3:4:59:1868#0/1
a]b^PQY^aaQNOJMa][[]UXJR_`^`QY_Z`UPTOMU]`
@HWI-EAS443:3:4:620:595#0/1
CGGGCCATATCTCTTGTCTTCTTTGCCAAAATGAGAAAT
+HWI-EAS443:3:4:620:595#0/1
¥bba_bVbaaaaa[[baa`aabb[Xa]aab`bbbab`baa
@HWI-EAS443:3:4:856:348#0/1
GCCCCTTTTCGTTTTATTACCAACTACGTCCCCTTGCC
+HWI-EAS443:3:4:856:348#0/1
abaaaR^a_]` `aa¥a`]b__aa]¥_aa^¥U_JVQ¥XUKD
@HWI-EAS443:3:4:950:207#0/1
CCCTTGTTGTAATTGAATACTGGAGAATTGCCTTACCA
+HWI-EAS443:3:4:950:207#0/1
H]baUQX_`Z`a_`bbbb¥¥`bbXbaa^]`H`baba¥HSb
@HWI-EAS443:3:50:1612:534#0/1
ACCCGTTTTCGTTTTATTACCAACTACGTCCCCTTGCC
+HWI-EAS443:3:50:1612:534#0/1
abaa__ba^S_`a^Za`_]_¥¥_aTa_a`^aZ_a^[`Y¥¥T
@HWI-EAS443:3:50:700:1328#0/1
CAGGCATTTCCAAAAGATGCAAAAGTGCTTTTCCAGAAC
+HWI-EAS443:3:50:700:1328#0/1
a_^_aabbbbb`abbbba`b]aaaa_aabaaa`aaa`aa
@HWI-EAS443:3:51:1082:793#0/1
GGGTGGGTTCACCTTTCAAAGGACAAGCGGATCATCAGTC
+HWI-EAS443:3:51:1082:793#0/1
O__U_W_¥¥U`Ta`bUb^a[¥R_baYbabXI`Uba__¥GQ
@HWI-EAS443:3:51:71:1000#0/1
ATCCCGTTTTCGTTTTATTACCAACTACGTCCCCTTGCC
+HWI-EAS443:3:51:71:1000#0/1
¥X¥SUa]a_U0¥a^`ba]baZVXa`_T__`][[¥]^¥aa[
@HWI-EAS443:3:52:316:1091#0/1
TGATTTCTCATTTTGGGCAAAGAAGACAAGAGATATGGCC
+HWI-EAS443:3:52:316:1091#0/1
babba`babbbababa`a]aaaaa_a`a`aa]_]`¥^`
@HWI-EAS443:3:52:665:170#0/1
GCTCTGTCTGCTGTAATTGGGTATCTCATTGCCATCATC

+HWI-EAS443:3:52:665:170#0/1
aababa`aaab`aa¥`aaaaNa_]_Z_a`]_]_]T^VT
@HWI-EAS443:3:53:111:1981#0/1
GAACAAAATGGAATTTGAACCATTTAGTCTCTTGTCCCT
+HWI-EAS443:3:53:111:1981#0/1
W_[R_bbb_]`aTaaa[¥`aab`b`^^`_aaTa¥YI^a]a
@HWI-EAS443:3:53:1369:805#0/1
ACCCGTTTTTCGTTTCATTACCAACTACGTCCCCTTGCC
+HWI-EAS443:3:53:1369:805#0/1
aa_abbabaaa`a_bbb]``^`ab`¥a`W]^Xa___0
@HWI-EAS443:3:53:994:545#0/1
TGATGGCAATGAGATACCCAATTACAGCAGACAAGAGAAA
+HWI-EAS443:3:53:994:545#0/1
`a_aaaYa]aaZZ_ab¥`^`bbaa^]ba_b`Z`abaaa`
@HWI-EAS443:3:54:1174:1226#0/1
ACCCGTTTTTCGTTTCATTACCAACTACGTCCCCTTGCC
+HWI-EAS443:3:54:1174:1226#0/1
[Y¥`aa`a`b_aaYa[aaW`aaHaa__X_Y]_^M_[]MW
@HWI-EAS443:3:54:1281:1820#0/1
AGAGAATAAAAGAACTGAGAGATCTAATGTGCGAGTCCCT
+HWI-EAS443:3:54:1281:1820#0/1
_¥Za_bbbabbbbaM`b``__ba]aaab`__a`aVT]S]
@HWI-EAS443:3:54:1413:1239#0/1
CCCCGTTTTTCGTTTCATTACCAACTACGTCCCCTTGCC
+HWI-EAS443:3:54:1413:1239#0/1
``abbbbbbbabbbbbbb`bbababb`bbbab`[a[
@HWI-EAS443:3:54:1451:1008#0/1
GCCGTTTTTCGTTTCATTACCAACTACGTCCCCTTGCCC
+HWI-EAS443:3:54:1451:1008#0/1
aab`abb`baaa`[aaba_a`^a`aa]a`UUZ__PQ^Z
@HWI-EAS443:3:54:1692:1287#0/1
CGGGCAAGGGGACGTAGTGTGGTAATGAAACGAAAACGG
+HWI-EAS443:3:54:1692:1287#0/1
ababbbbababaa_babbb`Gaabaabb`b`baba`b
@HWI-EAS443:3:54:441:1308#0/1
CTCCCGTTTTTCGTTTCATTACCAACTACGTCCCCTTGCC
+HWI-EAS443:3:54:441:1308#0/1
aaa`]W¥aaa¥`__`aaaa^a```]_aa_a_]_]¥[WSS[
@HWI-EAS443:3:55:118:1296#0/1
ACTTCCTGATGTGTACTTTTTGATTATGGCCATATGGTCC
+HWI-EAS443:3:55:118:1296#0/1
aaa`]_abaa`Y`^]aab^aa¥Xaaa`[[`__S[TGYOQ^
@HWI-EAS443:3:55:146:141#0/1
GGGATGATGGCAATGAGATACCCAATTACAGCAGACAAGA
+HWI-EAS443:3:55:146:141#0/1
_`a_aa_aaaa^```a]^`_]Y_]`__R__SY_WZ]^`¥
@HWI-EAS443:3:55:1702:509#0/1
GCCCGTTTTTCGTTTCATTACCAACTACGTCCCCTTGCC
+HWI-EAS443:3:55:1702:509#0/1
^`Y¥WW__]V_U``[W]baY LX]¥][_YQ^UVBBBBBBBB

@HWI-EAS443:3:55:381:135#0/1
CGGTCTTAGTGAGTATCTCGCGAGTGC GGGACTGCGACAT
+HWI-EAS443:3:55:381:135#0/1
aa_¥aa_aaa`¥]N_aaaa_a]^V`Xab`VY^^[a[S[_
@HWI-EAS443:3:55:64:497#0/1
GATCTAATGTGCGAGTCCCGCACTCGCGAGATACTCACTT
+HWI-EAS443:3:55:64:497#0/1
a^O[a¥Z]X^^¥QQZ¥¥XRXTFFTT¥WTS]BBBBBBBBBB
@HWI-EAS443:3:56:105:917#0/1
AGGGTATCTCATTGCCATCATCCACTTCATTCTGAGTGCG
+HWI-EAS443:3:56:105:917#0/1
ZV__V]¥¥^ZW^XRWVT]R^Q[¥ZX_U`]XX``]OZLHOO
@HWI-EAS443:3:56:1532:1988#0/1
GACAGATTGGAGGAGTAAGGATGGTGGACATCCTTAGACA
+HWI-EAS443:3:56:1532:1988#0/1
I¥`Xa¥b¥b¥X¥b¥Y¥0_Y``[QU^F_b[]_¥a`]XBBBBB
@HWI-EAS443:3:56:691:1296#0/1
AGCTAATTGGGCAAGGGGACGTAGTGTGGTAATGAAACG
+HWI-EAS443:3:56:691:1296#0/1
^`baa`abbbb`abab`baabaaba`Yaa^W_^aXWa¥FX
@HWI-EAS443:3:57:1339:405#0/1
GGGGTATCTCATTGCCATCATCCACTTCATTCTGAGTGCG
+HWI-EAS443:3:57:1339:405#0/1
]__Y[b[a_S_`ZS_]```¥^UUO__GUaa¥````T_T`
@HWI-EAS443:3:57:468:617#0/1
GGGGTATCTCATTGCCATCATCCACTTCATTCTGAGTGCG
+HWI-EAS443:3:57:468:617#0/1
`__b^aaaaaaaaaaaaa`aaaaa_aaaaaa`a`_dWa_`
@HWI-EAS443:3:59:1016:1834#0/1
CTGGATCAGACCGAGTGATGGTATCACCTCTGGCCGTAAA
+HWI-EAS443:3:59:1016:1834#0/1
`abbaabbbabaa_a¥ab_a`Qbaabba`aQ_`W¥N]^G
@HWI-EAS443:3:59:1093:378#0/1
GAATAAAAGAAGTCTAATGTGCGAGTCCCGCAG
+HWI-EAS443:3:59:1093:378#0/1
a]a]]aaaaY^YYb_aaaa`_^_U^b]`aadWTWRRY`RG
@HWI-EAS443:3:59:1358:185#0/1
GCTGTAATTGGGTATCTCATTGCCATCATCCACTTCATTA
+HWI-EAS443:3:59:1358:185#0/1
aaaa_aaa_¥^a]aaaa`_a_RP[`_aa_a_[¥`aNR__G
@HWI-EAS443:3:59:152:694#0/1
ACCCGTTTTCGTTTCATTACCAACACTACGTCCTTGCC
+HWI-EAS443:3:59:152:694#0/1
aabbb``aaa_[aaaaa`aaa`¥`aaa¥`a[T_^_YY_UW
@HWI-EAS443:3:59:1550:1609#0/1
ACCCGTTTTCGTTTCATTACCAACACTACGTCCTTGCC
+HWI-EAS443:3:59:1550:1609#0/1
_``__aba¥Z^aa_[a_dWY`^^a^`aBBBBBBBBBBBB
@HWI-EAS443:3:59:427:809#0/1
CCCCGTTTTCGTTTCATTACCAACACTACGTCCTTGCC

+HWI-EAS443:3:59:427:809#0/1
abbbbXU_b_`baabb`aaabababaaaXTZYX_VFUWU
@HWI-EAS443:3:59:456:59#0/1
CACCTTCATGTACTCTTATTTTCAGTGTGGAGGTTGC
+HWI-EAS443:3:59:456:59#0/1
a^_a[aa`^aa_[]`^^____`_^__`VZ[___Y¥N_RGWOO
@HWI-EAS443:3:59:556:1296#0/1
AAGTTATTGTCAACTTCTCAGTTCCTTGCGTTTCACTGAG
+HWI-EAS443:3:59:556:1296#0/1
`Z]T]a`aX¥a`YRSZa`Ua¥IZaa_][aaSQZY]YPYXG
@HWI-EAS443:3:59:730:752#0/1
ACCCGTTTTCGTTTCATTACCAACTACGTCCCCTTGCC
+HWI-EAS443:3:59:730:752#0/1
aa```_¥a`_a^]_]X`^]XX^YX][¥_W_VXXXVWVYY
@HWI-EAS443:3:59:979:328#0/1
TGATGGCAATGAGATACCCAATTACAGCAGACAAGAGAAA
+HWI-EAS443:3:59:979:328#0/1
abaa`aaaa`aaaa_a`__aaaaaaaa`aaaZ`^`ZU__^
@HWI-EAS443:3:5:136:1581#0/1
CGGGTTGAGGATTAGCTCATCTTTCAGTTTTGGTGGGTTC
+HWI-EAS443:3:5:136:1581#0/1
abaaababaaabaaa`aaaa`aba`aa_aa`aaVbaaU``
@HWI-EAS443:3:5:717:1977#0/1
TGATGGCAATGAGATACCCAATTACAGCAGACAAGAGAAA
+HWI-EAS443:3:5:717:1977#0/1
aabb_bbbbbbbbabbb`baaaabbab`baaab``bb`a
@HWI-EAS443:3:60:538:1016#0/1
AGGGCCATTCTTCCACCATGTTACGGCCAGAGGTGAT
+HWI-EAS443:3:60:538:1016#0/1
`U_] [babaaaa`a`ba`aaa`]Maa_T`]XLT YVG_RU
@HWI-EAS443:3:60:606:1554#0/1
CGACCGATTTTTAAGGGTTAGAGATCAAAGAGGGAACGTA
+HWI-EAS443:3:60:606:1554#0/1
aYZ`a`Z¥`a`¥[[_[_]____]`_`ZZ]_Y[^_aY`Z_
@HWI-EAS443:3:61:1416:1274#0/1
AGGGTATCTCATTGCCATCATCCACTTCATTCTGAGTGCG
+HWI-EAS443:3:61:1416:1274#0/1
_a`a_bbbba^aaa_¥X_a`abbbba`a`aaa¥]]_H^TW
@HWI-EAS443:3:61:466:1524#0/1
CGCACTGACTCAGGGCATTGATCTCCACATCATTGATG
+HWI-EAS443:3:61:466:1524#0/1
abba`aaaaaba__]^a¥][`¥^a_aaaa`_¥OY¥ZY[V[
@HWI-EAS443:3:62:1012:109#0/1
GATGATCCAGAGAGGAATGAACAAGGACAAACCCTCTGG
+HWI-EAS443:3:62:1012:109#0/1
IS`abb`aaaa_]_bbbab[[ba^b[b[`¥ba[IaSZbb
@HWI-EAS443:3:62:170:46#0/1
TTCCCGTTTTCGTTTCATTACCAACTACGTCCCCTTGCC
+HWI-EAS443:3:62:170:46#0/1
aa`_`b_aa_a]`^^_^^^¥V¥^]]VR[ZZWVXYYYY

@HWI-EAS443:3:62:1742:1842#0/1
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+HWI-EAS443:3:62:1742:1842#0/1
^b]`YHY`aaa_UR]a`Z[`a]_T_Yaa]ZR_]`^VOPOQU
@HWI-EAS443:3:63:1386:1680#0/1
ACCGTTTTTCGTTTCATTACCAACTACGTCCCCTTGCCC
+HWI-EAS443:3:63:1386:1680#0/1
a`]aPaW`^b¥`_`aa^YSa_[a_^_Z_ZZGV^XXZXZX
@HWI-EAS443:3:63:673:1348#0/1
CCATTCTATTCCACCATGTTACGGCCAGAGGTGATACCC
+HWI-EAS443:3:63:673:1348#0/1
a^^^aaba^]`aa^^_R]`_ab]^`^VGTSRBBBBBBBB
@HWI-EAS443:3:65:1350:741#0/1
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+HWI-EAS443:3:65:1350:741#0/1
aab[HWbba`aa^_`aWa_a^]baab^]`_Z¥`a_`¥`^_
@HWI-EAS443:3:65:1634:787#0/1
CGGGGTGGAGTCTGCTGTCCTGAGAGGATTTCTCATTTTG
+HWI-EAS443:3:65:1634:787#0/1
aa`^T``]b[[ab````]ZWUL_bXQQ`aX¥P_]abaW
@HWI-EAS443:3:65:518:621#0/1
GGGGTATCTCATTGCCATCATCCACTTCATTCTGAGTGCG
+HWI-EAS443:3:65:518:621#0/1
TSSSOH^aab¥`[a_b]aaaa[baaab^_`aaa`_aXaaa
@HWI-EAS443:3:65:747:331#0/1
AAAAGAAGTCTAATGTCGCAGTCCCCTGACTCGA
+HWI-EAS443:3:65:747:331#0/1
abbY`Y`abb¥^```[^b]a_¥R¥][a`^[[]¥aZP¥VTD
@HWI-EAS443:3:66:1018:1021#0/1
CCCCCGACTCAGAATGAAGTGGATGATGGCAATGAGATA
+HWI-EAS443:3:66:1018:1021#0/1
abaaaa__`aa¥VLYa^`a`X¥`U_]T¥_____^__¥X_
@HWI-EAS443:3:66:1633:105#0/1
CCCCGTTTTTCGTTTCATTACCAACTACGTCCCCTTGCC
+HWI-EAS443:3:66:1633:105#0/1
aaabba_bb_babaaabaaa`aa_aa_]a^[^_____VV
@HWI-EAS443:3:66:399:1983#0/1
TGTTGGGCCATTCTATTCCACCATGTTACGGCCAGAGGG
+HWI-EAS443:3:66:399:1983#0/1
`RQ``¥SZaa`Wba`_``baaaba[SV`b__]_V`BBBBB
@HWI-EAS443:3:66:461:1693#0/1
AGGCCATATGGTCCACAGTGGTCTTAGTGAGTATCTCGCG
+HWI-EAS443:3:66:461:1693#0/1
aZ[`_aaa`W_T````^NJPZS``_`RR_`_VaW¥¥^NZS
@HWI-EAS443:3:67:1106:198#0/1
ACTTAGTGAGTATCTCGCGAGTGGGGACTGCGACATTAG
+HWI-EAS443:3:67:1106:198#0/1
aab_^_]aa`X¥¥__`[RV_WDZR]a`X_Z]W]WWY]¥RZ
@HWI-EAS443:3:67:1238:814#0/1
GCTGGATCAGACCGAGTGATGGTATCACCTCTGGCCGTAT

+HWI-EAS443:3:67:1238:814#0/1
ababa`aabaaaa_ba¥`aaaa_aa_a`_^`____[aW_Z
@HWI-EAS443:3:67:414:679#0/1
ACCCGTTTTTCGTTTCATTACCAACTACGTCCCCTTGCC
+HWI-EAS443:3:67:414:679#0/1
a_`aa_`a`aa]_`^`a`^`_`[^`a`____]_Y_]`^Y]ZU
@HWI-EAS443:3:67:604:748#0/1
CGTTCACCTTTCAAAGGACAAGCGGATCATCAGTCAAGAA
+HWI-EAS443:3:67:604:748#0/1
H_abb`babbbbab]bbabbbbababaabbbbabbbbab
@HWI-EAS443:3:67:633:828#0/1
GGATCAATCTCCTGGTTGCCTTTCTGAGAATAGCTGTTGG
+HWI-EAS443:3:67:633:828#0/1
`_OQ_`^][aZZT[`¥EXW`HVTR]Z]a^^YBBBBBBBBBB
@HWI-EAS443:3:68:1114:1469#0/1
CTCTGCTGTAATTGGGTATCTCATTGCCATCATCCACTTC
+HWI-EAS443:3:68:1114:1469#0/1
¥aWZG^_QPY^[_b`aaZa`^UZaVab^TZ_QPa^a_`]^`
@HWI-EAS443:3:68:446:1812#0/1
TGGGTTGAGGATACTGGTAAGAGGCAATTCTCCAGTATTC
+HWI-EAS443:3:68:446:1812#0/1
aa¥aX`[^`_]`a]__YUS¥_`¥Vaaa_`^`a`_Y_^^^
@HWI-EAS443:3:69:786:504#0/1
TCCGTTTTTCGTTTCATTACCAACTACGTCCCCTTGCCC
+HWI-EAS443:3:69:786:504#0/1
aa_bababaa_aaY`]aa_a`a_a`a_Y]U]____]`^LXT]
@HWI-EAS443:3:69:981:1416#0/1
CGTCGCAGTCCCGCACTCGCGAGATACTACTAAGACCAC
+HWI-EAS443:3:69:981:1416#0/1
aaabbbbbb^b`ba`abababaaaaba`aaa`aaaXa_aaa
@HWI-EAS443:3:6:1488:1166#0/1
TGCCGTAGACATATGCAAGGCAGCAATAGGGTTGAGGATT
+HWI-EAS443:3:6:1488:1166#0/1
abI`b`bbbabaababaabb__a__`babab¥ab`abaa^
@HWI-EAS443:3:6:813:259#0/1
CTGAGAGGATTTCTCATTGTTGGCAAAGAAGACAAGAGAC
+HWI-EAS443:3:6:813:259#0/1
abb`b^aaaYaa_]Zaa``aaa]Pa__a`a`_a_a`a_`^
@HWI-EAS443:3:70:1280:636#0/1
GGGGTATCTCATTGCCATCATCCACTTCTGAGTGCG
+HWI-EAS443:3:70:1280:636#0/1
_X¥a¥abbbbabaa`aa]aab`_aa``aa]`]^][_]`
@HWI-EAS443:3:70:1606:1308#0/1
CCCCGTTTTTCGTTTCATTACCAACTACGTCCCCTTGCC
+HWI-EAS443:3:70:1606:1308#0/1
abaaaab¥_`baa``a`aaa^aaaa]aa¥]Y`YZ`X¥_[
@HWI-EAS443:3:70:485:1383#0/1
GAAGTGGACAGGGCCGAAGGTACCATGTTTCAACCTTTCA
+HWI-EAS443:3:70:485:1383#0/1
aaba_`aaaZ^_a¥aV`S[[QW]a]¥V[`a^]¥NY_Y_`a

@HWI-EAS443:3:70:609:493#0/1
TTGTGGGAGATCAATGGCCCTGAGTCAGTGCTAGTCAACA
+HWI-EAS443:3:70:609:493#0/1
aba_bbaaaaaaaaaaaaaa`a``]a`aZa````__``_`
@HWI-EAS443:3:70:976:223#0/1
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+HWI-EAS443:3:70:976:223#0/1
aa`_b_[a_]b`_a_aaaa__`V]`_`a^`]]V]]WXYXW
@HWI-EAS443:3:71:1107:120#0/1
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a[R_[¥Za]aa[aabaYZNaaaa`V^b_[Y^`b¥a[_YVF
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+HWI-EAS443:3:72:300:1360#0/1
^aaaa`a_aaa_aWa`b¥`_]``XX¥¥]__Z`]`^`a^^
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+HWI-EAS443:3:82:737:464#0/1
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+HWI-EAS443:3:83:1678:1756#0/1
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+HWI-EAS443:3:83:972:229#0/1
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+HWI-EAS443:3:85:1617:988#0/1
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+HWI-EAS443:3:85:643:907#0/1
a`L`Na`aaa`^^`Z_```_`a^^`]`¥SV`_a¥_UZZ]
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+HWI-EAS443:3:87:174:2037#0/1
YT a`[^T¥ZP]aY^Y]S0[_X¥`K^_]Sxa`[]YS_^YF
@HWI-EAS443:3:87:324:1924#0/1
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+HWI-EAS443:3:87:324:1924#0/1
`_SXaRLVaa`aa__a`abaY_a^ba_]a[]_]`a^_]S
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+HWI-EAS443:3:88:1348:111#0/1
_ba^b`ab`bbbbba`b`b_abb_a`baa`]]a^__a`]
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a_X^V^a_X^[aWI[aaaZV^]OZ^a[_a¥]U[_XSUKX¥
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abbb_`bb^ZXa[_abb¥_U[¥0_aaaXaaaaaaaa`U^^a
@HWI-EAS443:3:92:237:786#0/1
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+HWI-EAS443:3:92:237:786#0/1
aa_`_`_aa_`a]a[aaaU___a_`aN`]]`aLW¥^^^]]
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+HWI-EAS443:3:92:767:178#0/1
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^_`ZX¥a¥Za`¥PXWOU¥PXZVUZ`a__SU]N]UXU[`Z^
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aa]aab¥]aa`a_`_`aa`_`_`a_`_`_¥U^]V__^_]]]]
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a_^SaYbaa`aa`P`aabW]``]bY_a`]]]X__¥¥[H
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+HWI-EAS443:3:95:1631:673#0/1
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aa[___a]¥]a_¥Z`a`a_^`a_^`Xa__ZZ_a^^_Z^ZV
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+HWI-EAS443:3:96:469:528#0/1
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¥Z_Q_¥aa^X_]_]__W_^_]ZZ¥^[aa¥]JXZT`T^_MR
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@HWI-EAS443:3:9:761:949#0/1
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+HWI-EAS443:3:9:761:949#0/1
aba`V¥ab__a[`Zaaa_¥a_YXaaX`W]a`P¥_`R]]^
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+HWI-EAS443:3:100:1013:36#0/1
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@HWI-EAS443:3:100:1058:795#0/1
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+HWI-EAS443:3:100:1278:502#0/1
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+HWI-EAS443:3:100:1305:268#0/1
a¥^[aX`^_YYN[NNSaY^Za^`Y`^^[V]VUX_]¥ZVZB
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+HWI-EAS443:3:100:1437:1924#0/1
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AGTGAGTATTGACCGATTTTTAAGGGTTAGAGATCAAAGA
+HWI-EAS443:3:100:1525:1743#0/1
`]P]baW^Ya^[DIZWYbba][UY`YH[[UPWW¥DQ[BBB
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+HWI-EAS443:3:100:1607:748#0/1
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+HWI-EAS443:3:100:167:1131#0/1
T_bba`a`_bb``U``_^^ab````S_aaa^_]U]a`¥MO

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U_a_YaZ¥_Z^a```N^__a`^`bbb`[``aa^`SRJY^B
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+HWI-EAS443:3:100:1721:246#0/1
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+HWI-EAS443:3:100:172:464#0/1
a`aa_a]_aa_a`a`_a`__`_^Z``^^^_X^_Z^^
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+HWI-EAS443:3:100:190:35#0/1
_ba_aZ^aZW^`b__a_JWaa_] [`¥`RR]]W]^`VB
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¥VWVY[[^_QS¥¥[_]¥[RZ^_[^^^Z[]_U]VRXVBB
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+HWI-EAS443:3:100:298:651#0/1
a`_bba_aaaaQa`]aa¥aZ^]Z___ZU^V`HZ_G^BBB
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+HWI-EAS443:3:100:346:189#0/1
a[_WZ¥H]aZ^LP]Z¥__^[^[_Y_UW_]_X]UNTWBBB
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a`aaaa_aab_a__aaaa__`_a`_`^^`^aZ^]^^]V_^
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+HWI-EAS443:3:100:403:856#0/1
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+HWI-EAS443:3:100:404:1108#0/1
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ab\_^babab\_^`[]aaaa`¥ab¥a^aaa`^^`a^aY\_]`B  
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aa`a`aa`a`baabaaaa]^¥aa\_a¥YKX`^aaXN¥`U\_  
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+HWI-EAS443:3:100:898:606#0/1  
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¥bb[^\_\_`b\_YZaaa`a\_aa\_aaa\_aa]a`aaa```aa]\_  
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+HWI-EAS443:3:10:1241:1183#0/1  
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+HWI-EAS443:3:10:1296:1416#0/1  
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+HWI-EAS443:3:10:150:1508#0/1  
a`baaa\_\_aaaa¥aaa\_aaaa`\_\_\_\_\_[]aW\_\_\_\_\_^^`  
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+HWI-EAS443:3:10:1515:1341#0/1  
`a`]aaa\_aaaa```\_a\_]\_^\_a^XT\_]ZW^Z\_\_V]]]^  
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a`\_\_a\_w[\_Xa`]``R`\_Ua`¥U`\_\_YY\_^SXUU¥UU  
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+HWI-EAS443:3:10:253:1191#0/1  
^¥baaa\_a^[S[]a`^Za¥[^^[\_Q\_`\_[WY[]\_S^W[¥  
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+HWI-EAS443:3:10:266:326#0/1  
[\_¥U\_U¥\_^^]aaa`aZ\_a[\_aP][][]a\_NN^N¥^P[`Z`\_  
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+HWI-EAS443:3:10:293:468#0/1  
a)^^¥\_QR[\_^\_V^^]¥Y]^V`\_\_a^Z\_YYXX]UYYYVV  
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+HWI-EAS443:3:10:424:62#0/1  
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+HWI-EAS443:3:10:447:1463#0/1  
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+HWI-EAS443:3:10:483:1690#0/1  
a[\_Y\_YRS\_W`YY\_Z\_Q]^][Z[\_V^WWZ]^VZWZUZW^  
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\_[Z¥^^a`ab^\_]` `[aa\_a^a`[\_aW[^`^^¥USSUW

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````^a`bb`babaaaba`baba`aaabb^aa`bZ¥aaa\_  
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+HWI-EAS443:3:10:592:996#0/1
^`S]SaU]U`bb`Y`````_aab]Maa]LP]¥``_a`_J^^
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+HWI-EAS443:3:10:61:1339#0/1
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+HWI-EAS443:3:10:772:1245#0/1
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+HWI-EAS443:3:10:784:493#0/1
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¥¥Waa¥]¥`^_^HW]_`_`VZaU[[[_Ua^^`G`S]_^]Z
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+HWI-EAS443:3:10:813:1768#0/1
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`_X^a][[^__bXX]a][YU¥Z]NP[ZGOW]R[Z[U[SN[
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+HWI-EAS443:3:11:1185:1538#0/1
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+HWI-EAS443:3:11:1265:894#0/1
^Ybbbaa`a`aa`_`a_a_¥`][_¥a^]ZS[[__U^¥`^
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+HWI-EAS443:3:11:1317:1652#0/1
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+HWI-EAS443:3:11:1397:1065#0/1
^ba`aa^`bba`aaaababbaa_aaab_`_`_]`aX`_Y
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+HWI-EAS443:3:11:142:1145#0/1
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`^^_aa^aa`___`_a`aaa`^_]a^^`_]Z`]ZZ_R
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+HWI-EAS443:3:11:1714:1173#0/1
a_a¥_a]Q¥]aX_[ZT`[_a`^PZ^__^^V]`^VXV^X¥_
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+HWI-EAS443:3:11:172:922#0/1
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+HWI-EAS443:3:11:178:1566#0/1
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+HWI-EAS443:3:11:184:197#0/1
ab^aabaa_b_aaaa`aaa__a_]___`a[W]__^^^]`^`
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+HWI-EAS443:3:11:202:483#0/1
a_`QU``U]R`YVY]UXZa^^¥¥¥]_]WZNR_W^^]VX
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+HWI-EAS443:3:11:208:36#0/1
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a_bb` ``¥aab_aaa]_aaa__R^^_a^_]__^^R_]_¥_
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+HWI-EAS443:3:11:230:1360#0/1
SXaU`_^`_aXT[_a[_`_^`_[aUa` `M^`¥GX[`T`X¥
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a_baaaa[a`X]_^_]a^`Z^P^][^aW]O__^][][]
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aa`abaaabY^`a`a^a`]]WU^][^Y¥[T_^UU_^BB
@HWI-EAS443:3:11:36:764#0/1
CCCGCACTCAGAATGAAGTGGATGATGGCAATGAGATACC
+HWI-EAS443:3:11:36:764#0/1
a`_^a^V]a`]a_aaTK¥Wa^]`]LS_a^VZ__Y]RP^_^
@HWI-EAS443:3:11:393:1225#0/1
CCGCACTCAGAATGAAGTGGATGATGGCAATGAGATACCC
+HWI-EAS443:3:11:393:1225#0/1
aaaaaaaa`aaaa` ``_^a^`_aZaa_WW` ``^`]V_a_]`
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AATGTCGCAGTCCCGCACTCGCGAGATACTCACTAAGACC
+HWI-EAS443:3:11:393:688#0/1
a]_bPX]baUY^a`a`WX]a[aaT]T^JZN`^WWZ_[S_U
@HWI-EAS443:3:11:394:1126#0/1
GTACTTTTTGATTATGGCCATATGGTCCACAGTGGTCTTA
+HWI-EAS443:3:11:394:1126#0/1
a_a`bbaaba`aaa`__a`_U^_] [X]]¥]` `R]_NX__[
@HWI-EAS443:3:11:437:537#0/1
CACTCGCGAGATACTCACTAAGACCACTGTGGACCATATG
+HWI-EAS443:3:11:437:537#0/1
aaa`__¥`R`¥`¥a`a]^ [Z`aU`_`WPTPZ]]^^Z^ZQZ
@HWI-EAS443:3:11:445:88#0/1
GTCCCAAGCACATCCCGCATTTGCTGGAACAGTGCCTTA

+HWI-EAS443:3:11:445:88#0/1
a`a`_]__a_a¥a__¥_]__¥¥¥`_W¥ZW¥V¥^S^SUW¥V¥
@HWI-EAS443:3:11:486:411#0/1
CTCCTCCTGGAGTGACATCTGCTCCCAGCACGTCCCTTG
+HWI-EAS443:3:11:486:411#0/1
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@HWI-EAS443:3:11:49:1426#0/1
TCTCTTTCTAGCATGTACGCCACCATCAAGGGAGCAATTT
+HWI-EAS443:3:11:49:1426#0/1
a^aaaaababaaaaa^aa_a`_[a]^¥Z`_a__]`_`¥a^
@HWI-EAS443:3:11:508:161#0/1
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+HWI-EAS443:3:11:508:161#0/1
RRN_ZK_S_]PZYVW¥`_VZN]]ZSW¥]XS[Z_R[LBBB
@HWI-EAS443:3:11:537:747#0/1
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+HWI-EAS443:3:11:537:747#0/1
a]a`aaaa]aaZ^_a_aaU__`^__^U_Za¥_¥W]NVN
@HWI-EAS443:3:11:567:111#0/1
CCCCTTTTCGTTTTATTACCAACTACGTCCCCCTTGCCC
+HWI-EAS443:3:11:567:111#0/1
``ab`_`aaaa`a``aaaa_a`a_a_____ZXUR]]Z]ZZZ
@HWI-EAS443:3:11:594:1140#0/1
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+HWI-EAS443:3:11:594:1140#0/1
^b`VROYUM]]T`R]¥[¥[V¥a_aFDS`a^FLFNPLXBBB
@HWI-EAS443:3:11:60:464#0/1
TGGTCCACAGTGGTCTTAGTGAGTATCTCGCGAGTGCGGG
+HWI-EAS443:3:11:60:464#0/1
_a]GV¥^__¥`bb]`baaa¥``]]````¥`Z_TV¥U¥_W]X
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+HWI-EAS443:3:11:635:817#0/1
`¥b`aaaaaaaa]aaaU`aaaUaa¥V`a___a]a`_V`_^
@HWI-EAS443:3:11:638:634#0/1
CGCACTCAGAATGAAGTGGATGATGGCAATGAGATACCCA
+HWI-EAS443:3:11:638:634#0/1
abab_bbbaZ[bba¥aQbaa`^`_`aa`a_]a_``]__X_a
@HWI-EAS443:3:11:647:1258#0/1
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+HWI-EAS443:3:11:647:1258#0/1
aaa_baaaaaaaaa`aa¥aa_]`b`_`aa^aa`_a_]`
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CTAATGTCGCAGTCCCGCACTCGCGAGATACTCACTAAGA
+HWI-EAS443:3:11:675:654#0/1
ab`P`aX[aaaaa¥a[S]`a]URa]YF[QV¥_[^QU`_¥U
@HWI-EAS443:3:11:678:987#0/1
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+HWI-EAS443:3:11:678:987#0/1
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+HWI-EAS443:3:11:682:610#0/1
aaa`^^^aaa`aaa_aaa_aW__a_aT__`^_^_ZU_¥_
@HWI-EAS443:3:11:693:1450#0/1
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+HWI-EAS443:3:11:693:1450#0/1
a`baa`^aWYbSS]aY¥^`_^¥Z_Y]``_]T[___YT[^_
@HWI-EAS443:3:11:73:828#0/1
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+HWI-EAS443:3:11:73:828#0/1
aaa`^aaaaab^aa`aaa]aaaa_^a[aa`Y`¥a_^__`W
@HWI-EAS443:3:11:757:1719#0/1
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+HWI-EAS443:3:11:757:1719#0/1
¥^]bTLVZb^]_ba`YV^XZaaYUS[QOFVa]aaZU¥W__
@HWI-EAS443:3:11:771:1267#0/1
GTCCCGTTTTCGTTTTATTACCAACTACGTCCCCTTGC
+HWI-EAS443:3:11:771:1267#0/1
a]a¥^b`a_]aa^`___`Xa_[a_]_W¥`^_UZ_U^¥X`U
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+HWI-EAS443:3:11:779:902#0/1
abbaaab`b_aa`aabbaaa`a_aY[a_a_``^`__
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GAATAAAAGAAGTCTAATGTCGCAGTCCCGCAC
+HWI-EAS443:3:11:790:40#0/1
a[^¥`__`TX^)^X_¥X]^U_XY]]]UUYYYYSPUXXYXB
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+HWI-EAS443:3:11:793:1138#0/1
a_aaaa^aa`aa`a_a`^a_^_]_^_]_Z]__¥Z_^Z`_
@HWI-EAS443:3:11:811:206#0/1
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+HWI-EAS443:3:11:811:206#0/1
[FQaVX^bR_`a[S]^`_^`_¥^W^`_¥`__XY^_^_]X
@HWI-EAS443:3:11:814:1240#0/1
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+HWI-EAS443:3:11:814:1240#0/1
`b`ba`bb`babaaa_abaaaa_a_aa¥^^]L[¥¥]^Z` [
@HWI-EAS443:3:11:840:1285#0/1
GTCCCGTTTTCGTTTTATTACCAACTACGTCCCCTTGC
+HWI-EAS443:3:11:840:1285#0/1
a^aaab`aaa]`[a```a`aa_a¥_a`^a^a]X_XX]]__
@HWI-EAS443:3:11:843:747#0/1
ATAAAGTGGCTGTTCCGCCGCTACTGGGAGAAACCTT
+HWI-EAS443:3:11:843:747#0/1
aa`aa`aa`aaa¥`Xa``¥`_`a¥^[KT[^UTNN]BBBB
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GAGTATTGACCGATTTTTAAGGGTTAGAGATCAAAGAGGG

+HWI-EAS443:3:11:873:527#0/1
`¥`V[a`_^`¥¥`_]Y[`_Z¥__`^]X]]¥T[]_Z]
@HWI-EAS443:3:11:884:739#0/1
GGGTTTGTCTTGTTCATTCTCTCTGGAATCATGTCCAT
+HWI-EAS443:3:11:884:739#0/1
aaaPaa_P_aaaa]aY¥aaY_`^`a__^_¥]a`_]^^`
@HWI-EAS443:3:11:923:463#0/1
GTCCCGTTTTTCGTTTCATTACCAACTACGTCCCCTTGC
+HWI-EAS443:3:11:923:463#0/1
a`_`_bVa¥`^a¥`_`a`a__`_Z`_^`_]ZXXXY]U
@HWI-EAS443:3:11:942:1251#0/1
ACTTGTGTTGGGCCATTCTATTCCACCATGTTACGGCC
+HWI-EAS443:3:11:942:1251#0/1
a`_W[QaaY`a^Y`_`aaaa`a`^aTLX`a¥`_Z`a¥B
@HWI-EAS443:3:11:965:197#0/1
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+HWI-EAS443:3:11:965:197#0/1
aab[aaaaa^a____`]a```]a¥_XV`W_N^NZ_¥]]QNB
@HWI-EAS443:3:11:96:1694#0/1
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+HWI-EAS443:3:11:96:1694#0/1
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+HWI-EAS443:3:11:991:82#0/1
aaba`a_aaaaaa`_`_^_a`¥[a_¥aYWS¥¥¥T¥WT¥BB
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+HWI-EAS443:3:12:1002:634#0/1
_`Z`]SP^Q[VLX¥RVNOMMNW[VUWRSUUTSUSBBBBB
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+HWI-EAS443:3:12:1014:1145#0/1
¥ab[^^_aZb^Y¥[ab_[bbabY`aUN^[`a^`XZa^a^a
@HWI-EAS443:3:12:1030:1448#0/1
TTCTAGCATGTACGCCACCATCAAGGGAGCAATTTTACAA
+HWI-EAS443:3:12:1030:1448#0/1
abb`ba[Vb^a`_ULb^a_a_aaa[aaa]XY__Y`][a_
@HWI-EAS443:3:12:1036:1394#0/1
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+HWI-EAS443:3:12:1036:1394#0/1
aaaaaaaa`baaaaa`_abaaaYV`[aY^]]XZ_]^^]^X
@HWI-EAS443:3:12:1047:443#0/1
ATCTGCTCCCAGCACGTCCCTTGGGTTAAGTGCAACACTT
+HWI-EAS443:3:12:1047:443#0/1
aaa`b`_^_¥_]¥¥`V^_Y[^X_]V[R`]]_O]X¥]V]UV^
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+HWI-EAS443:3:12:1065:1713#0/1
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+HWI-EAS443:3:12:1088:1560#0/1
aaa`_a`a__^V`_aaa_]a`_a_RRUNZXMMBBBBB
@HWI-EAS443:3:12:1097:838#0/1
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+HWI-EAS443:3:12:1097:838#0/1
VYUW¥`_`_]b]`U`a[ZY[]bb]_baa`HVWaaaVaaQaa
@HWI-EAS443:3:12:1098:886#0/1
GGGGACGTAGTGTGGTAATGAAACGAAAACGGGACTCTA
+HWI-EAS443:3:12:1098:886#0/1
`baa_aa_aa^a_aaa]_`a__`a[`__`_G]a_]V_Y]^
@HWI-EAS443:3:12:1099:1914#0/1
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+HWI-EAS443:3:12:1099:1914#0/1
¥NUa\$¥UX`[]^`^^^`^a`_]`^YXXR^WM[W^]TY[[B
@HWI-EAS443:3:12:117:1357#0/1
GAACAAGGACAAACCCTCTGGAGCAAACAAACGATGCTG
+HWI-EAS443:3:12:117:1357#0/1
¥WUZWU]bab`bb_`^`b`^W^¥Va]YYa[^aaZZb¥a_
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+HWI-EAS443:3:12:1205:106#0/1
abaaaa`aabaaa`a`a^a__`a][`]^WYV^_^]Y]]
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+HWI-EAS443:3:12:1206:1083#0/1
aab```Zaabaa`aaa`aaa`aa_]_```XN[Z^^Z[]TV
@HWI-EAS443:3:12:1214:1425#0/1
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+HWI-EAS443:3:12:1214:1425#0/1
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+HWI-EAS443:3:12:1219:550#0/1
aabT]__¥OX`a]P¥aa``aY_a]Za^]J^XX¥Z_a_S[[
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+HWI-EAS443:3:12:1221:854#0/1
¥_bbbabbbba_ab`bbab`abaaa`abaaa_aaZ`__`a
@HWI-EAS443:3:12:1247:1328#0/1
TGCAGGTGCATTGACTGAAGATCCAGATGAAGGCACATCT
+HWI-EAS443:3:12:1247:1328#0/1
aa^abb]b`¥baa`¥bbabbaa`^aaa`aaaa_aa^`_Q_
@HWI-EAS443:3:12:126:1358#0/1
GTGGCGTACATGCTAGAAAGAGAATTGGTCCGTAAAACAA
+HWI-EAS443:3:12:126:1358#0/1
a_aaaZ¥`aaa`a`^_P__a[]_aa]X]X^^^^¥aZR`Y
@HWI-EAS443:3:12:1271:566#0/1
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+HWI-EAS443:3:12:1271:566#0/1
a_`a_aa`a`aa_aa_`a]a^_a_[__X__^`_][_]
@HWI-EAS443:3:12:1278:803#0/1
TCCCGTTTTCGTTTCATTACCAACTACGTCCCCTTGCC
+HWI-EAS443:3:12:1278:803#0/1
[`a^aS[bbZb[`VXV`ab¥[_TYaaa^aaY]^__a]¥`]
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GTTGCCCGTTAGCACTTCTTCTTCTTTCTTGACTGATGAT
+HWI-EAS443:3:12:128:595#0/1
aa_aaYQPNZY[ZQ_Z^Y^^V[_`_][[_aZ`ZV_YZ_BB
@HWI-EAS443:3:12:1306:337#0/1
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+HWI-EAS443:3:12:1306:337#0/1
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+HWI-EAS443:3:12:1344:608#0/1
ab_aaa^aabb]SX_`^a_a^W`aa`aaa]¥^]_a^_`]^
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+HWI-EAS443:3:12:1356:1096#0/1
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+HWI-EAS443:3:12:1373:798#0/1
a`_`a`aba_a^`_`a_a_]a`^__a`])Y¥RZ^^]X
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+HWI-EAS443:3:12:1402:820#0/1
a__baabbbabbbbaa`[a__b]`bb`b__b`a`TaaQa`
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+HWI-EAS443:3:12:1405:606#0/1
a`aa`_`aaaaaaaa^`_`a]_]`_]XZ[Z[^¥^U^]¥
@HWI-EAS443:3:12:1415:876#0/1
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+HWI-EAS443:3:12:1415:876#0/1
aab_¥bb]b^HXa^X^^ab_`aa_`Za_aa^aa`a^_a]a
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+HWI-EAS443:3:12:1437:541#0/1
`b]b`Xabaaaa[_`baaa]UYa]a[[]]ZZ_W[_]Za0`
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+HWI-EAS443:3:12:1500:710#0/1
aaaab`abbab_aa_aaaa`]^`a_a_a`_a]^X¥_`^U
@HWI-EAS443:3:12:1509:1845#0/1
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+HWI-EAS443:3:12:1509:1845#0/1
aa`aa_`V^aaa^^`_`aa]`][[¥Z_`_RTRRY^TTRZB

+HWI-EAS443:3:12:264:1293#0/1
a`baabaaaa_a`a`_aaaa_a`____`_a^^a]a_____a¥
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+HWI-EAS443:3:12:276:1913#0/1
a^]bZaaaa`a]TNa¥a`a_]a]_YVa_a_a^`aX_a`
@HWI-EAS443:3:12:277:658#0/1
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+HWI-EAS443:3:12:277:658#0/1
aaa^[a]S^a_a`Z^a`a_[aaY]_^^^UM_^¥^]`W^]]
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+HWI-EAS443:3:12:277:89#0/1
abaa_aabaa_^aaaaaaa_a`__`_`aaa^^]_Y^^_]XX
@HWI-EAS443:3:12:309:762#0/1
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+HWI-EAS443:3:12:309:762#0/1
aba`^aaaa_aba`aabab^`__`aaa]a[[____`_]U
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+HWI-EAS443:3:12:350:1201#0/1
abaaaa`aa`aba`W`aaa`aX`aaaa`^aa^_]`Z
@HWI-EAS443:3:12:357:696#0/1
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+HWI-EAS443:3:12:357:696#0/1
____[LMZYU¥Y[Y¥Z`]T¥[aU]]^a_P^[]`TWWXX__U
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+HWI-EAS443:3:12:361:2000#0/1
T`b¥^a`a`[aaabb^a^aaaY^a¥^_aa`]`aa_a_Z
@HWI-EAS443:3:12:362:1138#0/1
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+HWI-EAS443:3:12:362:1138#0/1
abbbba`aabba`bbbbabbbbaabaababaaabaaaa
@HWI-EAS443:3:12:378:309#0/1
AAAGAAGTGAAGATCTAATGTCGCAGTCCCGCACTCGCG
+HWI-EAS443:3:12:378:309#0/1
aaaa]¥aba^aa`_]aa]V¥]Z__`_]`^Y¥^_X`]T¥
@HWI-EAS443:3:12:379:1621#0/1
CAGTGGTCTTAGTGAGTATCTCGCGAGTGCGGGACTGCGA
+HWI-EAS443:3:12:379:1621#0/1
ab_¥abNbab`^Zaa]ab`__`]^_aaUUZ`aa_¥__a_`
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CCCGTTTTCGTTTTATTACCAACTACGTCCCCTTGCCC
+HWI-EAS443:3:12:410:856#0/1
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@HWI-EAS443:3:12:414:1006#0/1
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+HWI-EAS443:3:12:414:1006#0/1
``aaa^]``W_aa_^`Yaa`^a_`UXZ^__aa`^]``a

+HWI-EAS443:3:12:723:1285#0/1
aaaaaaa]aaabba]baaa¥_a`_a`_`__^`_N`]a^^
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+HWI-EAS443:3:12:743:1512#0/1
^XXO^X_Z¥a][W_b_a_bb]aa¥a`aa_U_ZZ`X_`]^a
@HWI-EAS443:3:12:74:1114#0/1
CCCCTTTTTCGTTTTATTACCAACTACTCGTCCCCTTGCCC
+HWI-EAS443:3:12:74:1114#0/1
abaa`aaaab_a`_a_aaaaa`_`a_a`_]a`_]WUZ]]
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aba^aaa_R_a_b`aabaaa_aZ[`a_a^^aa[[Y]Z_
@HWI-EAS443:3:12:755:305#0/1
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+HWI-EAS443:3:12:755:305#0/1
aaaaaba`ba`ab`YZ`aaa`_Wa_¥aZR^[_^`RVV^
@HWI-EAS443:3:12:756:250#0/1
GGTGGACATCCTTAGACAGAATCCAAGTGGAGCAAGCC
+HWI-EAS443:3:12:756:250#0/1
a^H¥]]ab]^]aa]`¥`]]`adWTZ_Va__YZZ[``_^YY
@HWI-EAS443:3:12:757:1415#0/1
GGGAGATCAATGGCCCTGAGTCAGTGCTAGTCAACTTA
+HWI-EAS443:3:12:757:1415#0/1
¥W¥b`_Saba`aYa]_`a`aVaa_U___¥]UUZ`^`]]^_
@HWI-EAS443:3:12:770:826#0/1
GATCTAATGTGCGAGTCCCGCACTCGCGAGATACTACTA
+HWI-EAS443:3:12:770:826#0/1
TaXaa__Z`¥`]]`bb^Z[_]aWVX`^`¥]____]M^[_Y__
@HWI-EAS443:3:12:778:721#0/1
ATAAAAAGAACTGAGAGATCTAATGTGCGAGTCCCGCACTC
+HWI-EAS443:3:12:778:721#0/1
aab`_a_Paa`[]_a[^`aa_aaaUI_Va[RZW[``^URY
@HWI-EAS443:3:12:806:1287#0/1
AAAGAACTGAGAGATCTAATGTGCGAGTCCCGCACTCGCG
+HWI-EAS443:3:12:806:1287#0/1
abaaaa_aa`aa`a``aa`aa^]U`aXXY^Z]W]¥_¥W]
@HWI-EAS443:3:12:80:437#0/1
GGTCCGTAAAACAAGTTTTCTCCAGTAGCCGGCGGAACA
+HWI-EAS443:3:12:80:437#0/1
a^^`ab[a]aa```]`aW`¥a]^^^a`T_`^Va¥]^^¥Y[B
@HWI-EAS443:3:12:821:283#0/1
AATTCTTCATACCCTTCATGTACTCTTATTTTCAGTGTTT
+HWI-EAS443:3:12:821:283#0/1
a_bbabbbbaa`babb`bbbbbab^bbbbabaa``_baab
@HWI-EAS443:3:12:828:778#0/1
AGGGGACGTAGTGTGGTAATGAAACGAAAACGGGACTCT
+HWI-EAS443:3:12:828:778#0/1
a_¥^`_aaL]bZ^T]__WGY[ZPZa]`[a^SFV`]GZ¥_R

@HWI-EAS443:3:12:829:735#0/1
CATTATTCTCTGTCTGCTGTAATTGGGTATCTCATTGCC
+HWI-EAS443:3:12:829:735#0/1
]aa`aa`]aababa_a]¥]^V`aaa`X`a]a``````__
@HWI-EAS443:3:12:840:113#0/1
CCCCTTTTCGTTTCATTACCAACTACGTCCCCTTGCCC
+HWI-EAS443:3:12:840:113#0/1
aaabaabaab_ab_aaaa`a`_a`_a]FZ¥X]^]Y]]Y]
@HWI-EAS443:3:12:875:247#0/1
AACAAACGATGCTGGATCAGACCGAGTGATGGTATCACCT
+HWI-EAS443:3:12:875:247#0/1
`aaaaa]aa`a`_a`_¥a`^U¥`^`Ua^W]¥Q¥¥W^TBB
@HWI-EAS443:3:12:881:1828#0/1
GAACTGTAAGTCGTTTGGTTGCCTTGTGTAATTGAATAC
+HWI-EAS443:3:12:881:1828#0/1
`a_a_baa`a`_M_abaa_aaaaa[`_Z_a`^`a_WaS
@HWI-EAS443:3:12:897:1912#0/1
GAATGAACAAGGACAAACCCTCTGGAGCAAAACAAACGAT
+HWI-EAS443:3:12:897:1912#0/1
aaa_abbbbaa_Va`abab^ba^`^_aabaY_0^aaY`__
@HWI-EAS443:3:12:906:859#0/1
AAAAGAAGTCTAATGTCGCAGTCCCGCACTCGC
+HWI-EAS443:3:12:906:859#0/1
U`a`abb^aa_____Y]`aaaab_]a[b_[]^Z^`[`YQZQ
@HWI-EAS443:3:12:922:372#0/1
AGAAGAGCTCCAGATTGTAATAATTGCTCCCTTGATGGTG
+HWI-EAS443:3:12:922:372#0/1
abaaa`aaaa``]`]`aa_a`_`a`_`_a^Y]``a`^__Ya
@HWI-EAS443:3:12:953:409#0/1
AAAGAAGTCTAATGTCGCAGTCCCGCACTCGCG
+HWI-EAS443:3:12:953:409#0/1
[FW¥aa`aaXa_Y]XS^`[¥aUOW_U[PF[¥R¥RUZ[^WB
@HWI-EAS443:3:12:986:18#0/1
GAACTGAGAGATCTAATGTCGCAGTCCCGCACTCGCGAGA
+HWI-EAS443:3:12:986:18#0/1
aaaaaaaaaba_]a`]aaX]Z^^aYY]^^^[]`_¥a¥_W^W
@HWI-EAS443:3:13:1012:2012#0/1
ATCTAATGTCGCAGTCCCGCACTCGCGAGATACTCACTAA
+HWI-EAS443:3:13:1012:2012#0/1
a[aaa`a_W^XR`N[`a^¥Y_TW_X¥W_W¥¥UU¥YTY¥¥
@HWI-EAS443:3:13:1025:1537#0/1
CGCACTCAGAATGAAGTGGATGATGGCAATGAGATACCCA
+HWI-EAS443:3:13:1025:1537#0/1
]_^ab_b_bU^¥`MSV^_YV]baba]¥Q^aa_¥QXQX]_a
@HWI-EAS443:3:13:1045:237#0/1
ATGGCCATATGGTCCACAGTGGTCTTAGTGAGTATCTCGC
+HWI-EAS443:3:13:1045:237#0/1
_bWaa]^`RUV]P`Z`ZX]U^ZNPU^U¥U^PVW[PSBBBB
@HWI-EAS443:3:13:1050:597#0/1
TGGACCATATGGCCATAATCAAAAAGTACACATCAGGAAG

+HWI-EAS443:3:13:1050:597#0/1
`Xaaa_ab`bba[^a^_`a^_`a`aYa`a`a`Z]aa`_a
@HWI-EAS443:3:13:1058:1945#0/1
GGGTTCACITTTCAAAGGACAAGCGGATCATCAGTCAAGA
+HWI-EAS443:3:13:1058:1945#0/1
aa_XTaaQaZaY`_`_]`^^Z_`_`Z_a_[S`^¥^^_S`^^_
@HWI-EAS443:3:13:106:446#0/1
GGGACGTAGTGTGGTAATGAAACGAAAACGGGACTCTAG
+HWI-EAS443:3:13:106:446#0/1
`ZW_baW^`Q_`abaZ]a^`OY_Z`T`[^_`^`¥UX^]_^
@HWI-EAS443:3:13:1070:1614#0/1
GGGGACGTAGTGTGGTAATGAAACGAAAACGGGACTCTA
+HWI-EAS443:3:13:1070:1614#0/1
a__a_]a^^SZ¥¥_`^`XW¥X_^^`X^_Z^`SXX^RUBBBB
@HWI-EAS443:3:13:1089:1087#0/1
AAAAGAAGTCTGAGATCTAATGTCGCAGTCCCGCACTCGC
+HWI-EAS443:3:13:1089:1087#0/1
abaaa__[abaaa`^__aaaaa]a]aaa¥`_`^¥]X`XZ]^
@HWI-EAS443:3:13:114:1465#0/1
CTCTTGCTCTTTGCCAAAATGAGAAATCCTCTCAGGA
+HWI-EAS443:3:13:114:1465#0/1
aab]aa_aaab`_`^aa[^ZZ¥^_`_`]aaaa]`a_a_[[`
@HWI-EAS443:3:13:1158:602#0/1
TTCCTGATGTGACTTTTTGATTATGGCCATATGGTCCAC
+HWI-EAS443:3:13:1158:602#0/1
abbbba[^babaa_bbbb_YZbaaaa`a_`_NZYSMWY]B
@HWI-EAS443:3:13:1177:1235#0/1
CTGCTGCTCTGAGAGATTTCTCATTTTGGCAAAGAAGA
+HWI-EAS443:3:13:1177:1235#0/1
Y¥Q_`_W¥¥^a¥_Sa`]V`aRWY[abbb`^_WS_a`L`Y
@HWI-EAS443:3:13:1186:115#0/1
ATGAAGTGGATGATGGCAATGAGATACCCAATTACAGCAG
+HWI-EAS443:3:13:1186:115#0/1
^aaa_aWb^Y`R[a`[_]`a^`V¥^`¥X_Z___ZX^XV^
@HWI-EAS443:3:13:118:1119#0/1
AATCTGTGTGCTGTGGCACATTTCCAAGAGAGATGCTAAT
+HWI-EAS443:3:13:118:1119#0/1
Z_]a^_Z_]¥[Z[XZ¥abZ_a`_`Z_`]Za`UaLaaa_`_`_
@HWI-EAS443:3:13:1210:76#0/1
GAATAAAAGAAGTCTAATGTCGCAGTCCCGCAC
+HWI-EAS443:3:13:1210:76#0/1
a`]bSb_X[Q_]b]a_X[QQ`_`[Y`_`_`W¥UY¥PZ[RPL
@HWI-EAS443:3:13:1219:570#0/1
TGCTGCTCTGAGAGATTTCTCATTTTGGCAAAGAAGAC
+HWI-EAS443:3:13:1219:570#0/1
abbbbaaabababbaaba`aaaaabaaaa_a`_`aa`a`_
@HWI-EAS443:3:13:1246:146#0/1
CAATTACAGCAGACAAGAGAATAATGGACATGATTCCAGA
+HWI-EAS443:3:13:1246:146#0/1
a`bbbb`abaaa`_`a_aaa__aa_`aa_¥`_`_`_]_Y^_^

@HWI-EAS443:3:13:1342:1074#0/1
GGTGCATTGACTGAAGATCCAGATGAAGGCACATCTGGGG
+HWI-EAS443:3:13:1342:1074#0/1
a_N`[[[_a`X[^]aXKKU]^]VUXYYRKTMTS¥¥_BB
@HWI-EAS443:3:13:1388:1727#0/1
GTCCCCGTTTTCGTTTCATTACCAACTACGTCCCCCTTGC
+HWI-EAS443:3:13:1388:1727#0/1
`[baab_ab`ab]^a_ab_a`aaa`aa`_^`]W¥_____

@HWI-EAS443:3:13:1389:190#0/1
GAAGTGGATGATGGCAATGAGATACCCAATTACAGCAGAC
+HWI-EAS443:3:13:1389:190#0/1
`_ab^`a_aa`^^¥T`_`a`_Z^W^`_`_`_Z__^`^X
@HWI-EAS443:3:13:1416:588#0/1
GAGAATAAAAGAACTGAGAGATCTAATGTCGCAGTCCCGC
+HWI-EAS443:3:13:1416:588#0/1
a`a]aaaaaaaa_aZaa`a^`_`_aa_aaZ[^]_a]XY_]`
@HWI-EAS443:3:13:1421:1556#0/1
GAAACCTTGTTTTACGGACCAATTCTCTTTCTAGCATGTA
+HWI-EAS443:3:13:1421:1556#0/1
aa^b][`aa¥aaaaY]aa]UaZVYL^[____¥`Z`[[`_V_
@HWI-EAS443:3:13:1460:333#0/1
AGGGGACGTAGTGTGGTAATGAAACGAAAACGGGACTCT
+HWI-EAS443:3:13:1460:333#0/1
^aa_aab_a__V_P^aaSO`a`_a_[¥WQWYT^aa[X_XZ
@HWI-EAS443:3:13:1477:1499#0/1
AAAGAAGTGAAGATCTAATGTCGCAGTCCCGCACTCGCG
+HWI-EAS443:3:13:1477:1499#0/1
aaba_a_a`baa_a`aa^`a`T__`aXX_Y]TUW^X_R_
@HWI-EAS443:3:13:1488:701#0/1
TGGTGGGTTCACTTTCAAAGGACAAGCGGATCATCAGTC
+HWI-EAS443:3:13:1488:701#0/1
[`aP`bbabaaabbb¥`__`]aaa`abaaa`_`_aa]`a`W
@HWI-EAS443:3:13:149:211#0/1
GGTGGGTTCACTTTCAAAGGACAAGCGGATCATCAGTCA
+HWI-EAS443:3:13:149:211#0/1
ab_baa_aba_aaaaaa]a`_`a^aa`a_a_a^a_a^^`
@HWI-EAS443:3:13:1593:965#0/1
ATGGCAATGAGATACCCAATTACAGCAGACAAGAGAATAA
+HWI-EAS443:3:13:1593:965#0/1
aabb`aaabaa_a`___a`a_a^`^aa^`_`_`_a^]a`_
@HWI-EAS443:3:13:1641:202#0/1
AAAGAAGTGAAGATCTAATGTCGCAGTCCCGCACTCGCG
+HWI-EAS443:3:13:1641:202#0/1
`a`_`_a__aaa_a__S____`_ZV^Q^_YUUVZTWWBBBBB
@HWI-EAS443:3:13:1668:1548#0/1
GAATAAAAGAACTGAGAGATCTAATGTCGCAGTCCCGCAC
+HWI-EAS443:3:13:1668:1548#0/1
a^abbbba_aab_bb_bbb^baabbaa`^a^Yaa_aY]¥
@HWI-EAS443:3:13:1706:98#0/1
TACGCCACCATCAAGGGAGCAATTTTACAATCCTGGAGCT

+HWI-EAS443:3:13:1706:98#0/1
abab[W] []a¥GT`¥PY^YKZ^a]aa_Z^¥¥GPP_^W`VY
@HWI-EAS443:3:13:178:2021#0/1
TAAGGATGTCCACCATCCTTACTCCTCCAATCTGTGTGCT
+HWI-EAS443:3:13:178:2021#0/1
a_^aa^aUS_`Z]^SPX[VY^a__^P]^`YGS^Z_PSPLUU
@HWI-EAS443:3:13:180:304#0/1
GAATAAAAGAAGACTGAGAGATCTAATGTCGCAGTCCCGCAC
+HWI-EAS443:3:13:180:304#0/1
a_`baba_a`aaaabaa`_a_aa`ab___a``_^_a]`[a
@HWI-EAS443:3:13:188:1373#0/1
CAAACGATGCTGGATCAGACCGAGTGATGGTATCACCTCT
+HWI-EAS443:3:13:188:1373#0/1
aa]a`T^Waa^`aaX_a___YDWSP_Z¥_ZW_UPXN^BBB
@HWI-EAS443:3:13:197:1391#0/1
GCGAGATACTACTAAGACCACTGTGGACCATATGGCCAT
+HWI-EAS443:3:13:197:1391#0/1
`aa]ba`aaabaa_aabaabaa]a^`aa_]````_```Z
@HWI-EAS443:3:13:210:550#0/1
GGAGTCTGCTGTCCTGAGAGGATTTCTCATTTTGGGCAA
+HWI-EAS443:3:13:210:550#0/1
aba^^baabaaQX__b_aa^__^aa_aa_aa`_a_a___`
@HWI-EAS443:3:13:217:1223#0/1
GGGACGTAGTGTGGTAATGAAACGAAAACGGGACTCTA
+HWI-EAS443:3:13:217:1223#0/1
a^]Z]aa^aaV¥¥a`]V]^]XU^¥VYVX]^ZZ^]YS[ZVV
@HWI-EAS443:3:13:241:447#0/1
CCGTTTTCGTTTCATTACCAACACTACGTCCCCTTGCCCA
+HWI-EAS443:3:13:241:447#0/1
a``Y`bbba__W^^U`b`a]Y`a[aa^_¥Z]Xaaa`YPOY
@HWI-EAS443:3:13:242:436#0/1
ATGGCAATGAGATACCCAATTACAGCAGACAAGAGAATAA
+HWI-EAS443:3:13:242:436#0/1
aaabaaYabaaaa`a`b`aaa`a`aaa`_a`aaa___aa
@HWI-EAS443:3:13:254:831#0/1
CTAATGTGCTAATTGGGCAAGGGGACGTAGTGTGGTAAT
+HWI-EAS443:3:13:254:831#0/1
aba`b`ba`Y^aaaaaaa_ba`a^`a¥_aWa^`a_OVZ^
@HWI-EAS443:3:13:257:319#0/1
GGATTTCTCATTTTGGGCAAAGAAGACAAGAGATATGGCC
+HWI-EAS443:3:13:257:319#0/1
_a¥`__bb`[aaaaaaa`a¥aa]Waaaa`a`a`_a`_T¥0
@HWI-EAS443:3:13:267:574#0/1
GTGAATTCTTCATACCCTTCATGTACTCTTATTTTCAGTG
+HWI-EAS443:3:13:267:574#0/1
`^`YL`Xaa`aa¥W¥`aa`^aaYY]a`a^^````¥[```
@HWI-EAS443:3:13:292:2001#0/1
CAAGCCGTAGACATATGCAAGGCAGCAATAGGGTTGAGGA
+HWI-EAS443:3:13:292:2001#0/1
aaa]aaT_¥¥_a__a^_aa_^`^^_]Y_^]]WUVS]XSX

@HWI-EAS443:3:13:303:490#0/1
AAAAGAAGTCTAATGTTCGAGTCCCGCACTCGC
+HWI-EAS443:3:13:303:490#0/1
aaa_`aa`aaaa`_ab_aaZ_____Z_]¥]aX_]____
@HWI-EAS443:3:13:31:148#0/1
CTGAAATGGTTCAAATCCATTTTGTGTATAACATTGTG
+HWI-EAS443:3:13:31:148#0/1
a_b^_T_]a^`^a¥S]a[a`^aa`^[]]P_T_]_]`[`Wa
@HWI-EAS443:3:13:336:884#0/1
CCCGTTTTTCGTTTCATTACCAACTACGTCCCCTTGCCC
+HWI-EAS443:3:13:336:884#0/1
aaab_aa`ab^`_aa^aa`a¥_`_`a__U^]_`¥UY_X_
@HWI-EAS443:3:13:33:1194#0/1
AGAGAATAAAAGAAGTCTAATGTTCGAGTCCCG
+HWI-EAS443:3:13:33:1194#0/1
ba`¥a^Z``_aa`aaaa]a^`aaaaaa_aaaaa^a`_]`
@HWI-EAS443:3:13:37:1728#0/1
AATAAAAGAAGTCTAATGTTCGAGTCCCGCACT
+HWI-EAS443:3:13:37:1728#0/1
aXbabbbWaaab_¥^ba`aaabbb`abSb[_[^a`^a_[Z
@HWI-EAS443:3:13:408:869#0/1
GGGTTAGAGATCAAAGAGGGAACGTACTATTGTCTCCCGA
+HWI-EAS443:3:13:408:869#0/1
^V_a`Z]_ZS`^^]ZZ`_]Z`¥XXa_a¥]¥YV__V^ZR[
@HWI-EAS443:3:13:41:1353#0/1
CGCGAGATACTACTAAGACCACTGTGGACCATATGGCCA
+HWI-EAS443:3:13:41:1353#0/1
aa][¥[H]^`^`a`a_aZ_aa__^ZY_^_Z_]W]]¥
@HWI-EAS443:3:13:427:360#0/1
TGCTGTAATTGGGTATCTCATTGCCATCATCCACTTCATT
+HWI-EAS443:3:13:427:360#0/1
`ba^b]ZZaaaaa]_`a]Z``Va_¥^`_a^_]Z^`^Z_]`
@HWI-EAS443:3:13:444:387#0/1
CCGCACTCGGAGATACTACTAAGACCACTGTGGACCAT
+HWI-EAS443:3:13:444:387#0/1
aaabZb`aaaaab[^`_aaa``aa`a_]a]¥aW¥^`_`_`
@HWI-EAS443:3:13:454:246#0/1
CTCACTAAGACCACTGTGGACCATATGGCCATAATCAAAA
+HWI-EAS443:3:13:454:246#0/1
abbbaa__^`a¥ba^[¥]`]aa`aab]_`aT_`TF[a`a
@HWI-EAS443:3:13:454:577#0/1
AAAGAAGTCTAATGTTCGAGTCCCGCACTCGCG
+HWI-EAS443:3:13:454:577#0/1
a_Za`aaaaaaaaaab_a`a`_]`aa]`_`_`_`_]`
@HWI-EAS443:3:13:488:1071#0/1
GGGACGTAGTGTGGTAATGAAACGAAACGGGACTCTAG
+HWI-EAS443:3:13:488:1071#0/1
`aaZ^_SZb]aQ]`aHS]^`¥Y_a^MVZXFZZ`]ZV]Y_B
@HWI-EAS443:3:13:496:276#0/1
GAAGTCTAATGTTCGAGTCCCGCACTCGCGAGA

@HWI-EAS443:3:13:625:586#0/1
CATCATTTCTCACTTCTCCTCCTGGAGTGTACATCTGCTC
+HWI-EAS443:3:13:625:586#0/1
_`Zabababbbababaaaa`a_baa`_`^a_aaaa^`a`Z[
@HWI-EAS443:3:13:62:1625#0/1
TGAGTATCTCGCGAGTGC GGGACTGCGACATTAGATCTCT
+HWI-EAS443:3:13:62:1625#0/1
aaaaP^QXUY`PUH]Z``¥V_VU^QV]IXU]YZSN]U_XL
@HWI-EAS443:3:13:633:1470#0/1
GTGCTAACGGGCAACCTCCAAACACTGAAAATAAGAGTAC
+HWI-EAS443:3:13:633:1470#0/1
`_abbababaa`aa^_aaaaaaaa`a`]aaaa^`a_V`]
@HWI-EAS443:3:13:652:960#0/1
CATTATTCTCTTGTCTGCTGTAATTGGGTATCTCATTGCC
+HWI-EAS443:3:13:652:960#0/1
abY^^]]ROY][¥R[^^_]HR[UP^a]G^WX¥[TUUBB
@HWI-EAS443:3:13:674:1003#0/1
ATAAAAAGAACTGAGAGATCTAATGTCGCAGTCCCGCACTC
+HWI-EAS443:3:13:674:1003#0/1
aa^^aaa`a`aaa_aaa__`a_aa¥__]__X]__^^R^Z_
@HWI-EAS443:3:13:687:639#0/1
GAGCTCCAGGATTGTA AAAATTGCTCCCTTGATGGTGGCGT
+HWI-EAS443:3:13:687:639#0/1
``ab_abaaaabbb`^`abaaaaaa]a`a]aa`Taa_b_
@HWI-EAS443:3:13:712:242#0/1
CCCGTTTTCGTTTTATTACCAACTACGTCCCCTTGCCC
+HWI-EAS443:3:13:712:242#0/1
abaa]ZXV]b_aa_a`aaa_aVU`aaa¥_]XU]^X]V[YQ
@HWI-EAS443:3:13:712:278#0/1
AGCACTTTTGCATCTTTTTGGAAATGCCTCAAGAGTTGGT
+HWI-EAS443:3:13:712:278#0/1
aaaa__a_ab`aa_aaaa_a`W¥_a`_`_Za]^]_aUP
@HWI-EAS443:3:13:721:41#0/1
GTCCCCTTTTTCGTTTTATTACCAACTACGTCCCCTTGCC
+HWI-EAS443:3:13:721:41#0/1
`LW[[aPT]¥[aWVWZX[R[¥SX]X^YY]XWVTXWVWWW
@HWI-EAS443:3:13:734:1297#0/1
CCCGTTTTCGTTTTATTACCAACTACGTCCCCTTGCCC
+HWI-EAS443:3:13:734:1297#0/1
`Xb_`aa_a`VX]a`V^aX[aaWa_`bYNPX_Z_]`^_YMY
@HWI-EAS443:3:13:736:38#0/1
GCGAGATACTACTAAGACCACTGTGGACCATATGGCCAT
+HWI-EAS443:3:13:736:38#0/1
aaa^a_`_`^`^X__`^^V¥]]_Z^^]]^Z^]^ZWX]Z
@HWI-EAS443:3:13:756:342#0/1
AAACGACTTACAGTTCTTGAAAGGATGCAGGTGCATTGA
+HWI-EAS443:3:13:756:342#0/1
aaa``[Va]¥__`^_Z^a``[a[`_`^a_`_U`]]^]_`
@HWI-EAS443:3:13:764:1288#0/1
ATGGACATGATTCCAGAGAGGAATGAACAAGGACAAACCC

+HWI-EAS443:3:13:764:1288#0/1
aaaa`aaaa[aaa`a`_aaaa_`aa`a`^_]aa`]]
@HWI-EAS443:3:13:764:483#0/1
AAAGAAGTCTAATGTCGAGTCCCGCACTCGCG
+HWI-EAS443:3:13:764:483#0/1
[`UWPOU¥XUU¥^T^XaS¥a_G[Y_^_I]T__NGOPGTY[
@HWI-EAS443:3:13:774:989#0/1
ATGGCAATGAGATACCCAATTACAGCAGACAAGAGAATAA
+HWI-EAS443:3:13:774:989#0/1
UYbba_aa`¥^Xa`^aaa]a^aabaaba`aaaaaaaa__
@HWI-EAS443:3:13:815:608#0/1
GTCCCGTTTTCGTTTCATTACCAACTACGTCCCCTTGC
+HWI-EAS443:3:13:815:608#0/1
a_a`b_aaaab_aa_`a`a`_a`_a_a`__^^]_^_^]
@HWI-EAS443:3:13:85:1867#0/1
AGAGAATAAAAGAAGTCTAATGTCGAGTCCCG
+HWI-EAS443:3:13:85:1867#0/1
aaa`[babbaba`aa`aaaaaaabaaa^^Y`a_Xaa`]
@HWI-EAS443:3:13:862:1490#0/1
GATTAGCTCATCTTTTCAGTTTTGGTGGGTTCACTTTCAA
+HWI-EAS443:3:13:862:1490#0/1
`^babbabXbaaaaL`b_aba``]aaa^a^[RXa`Z__a
@HWI-EAS443:3:13:878:1907#0/1
AGCAGACAAGAGAATAATGGACATGATTCCAGAGAGGAAT
+HWI-EAS443:3:13:878:1907#0/1
aa]_b_a¥`a[UFT[X_`a_[`¥^^^]Q[[_Y¥]^`^`P
@HWI-EAS443:3:13:879:742#0/1
CAAGGACAAACCCTCTGGAGCAAAACAAACGATGCTGGAT
+HWI-EAS443:3:13:879:742#0/1
]_X_a`^^W^a`a`a`a]__W^]Xa`UT_¥U`¥^_¥YU
@HWI-EAS443:3:13:880:652#0/1
AATGTCGAGTCCCGCACTCGCGAGATACTACTAAGACC
+HWI-EAS443:3:13:880:652#0/1
aabb]`baaa[[_^^^Y^`_]a^`]¥¥¥`U^SY¥^^¥WWW
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+HWI-EAS443:3:13:884:1978#0/1
V_`bbb_aabUbaaba`aababY[a_bbX]a[[^`Y]
@HWI-EAS443:3:13:893:512#0/1
ACAGTGGTCTTAGTGAGTATCTCGCGAGTGGGGACTGCG
+HWI-EAS443:3:13:893:512#0/1
aaaZ]aa_aaa_a[aa`aa]^P¥¥ZZ^^¥`a¥VZ`V[
@HWI-EAS443:3:13:91:1055#0/1
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+HWI-EAS443:3:13:91:1055#0/1
a__J^ab_`aaaaZ][¥Z]aa]N[a__`__S^TKZ[¥`]
@HWI-EAS443:3:13:923:1328#0/1
GAACAAGGACAAACCCTCTGGAGCAAAACAAACGATGCTG
+HWI-EAS443:3:13:923:1328#0/1
`[_`baaSZ]]_aZPUaUa^_abaa^a^_aaX`a_Za]Z_

@HWI-EAS443:3:13:94:1158#0/1
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+HWI-EAS443:3:13:94:1158#0/1
`¥baaaaa_`^ba`aaY``_Va_a_dNa_[T_R¥¥[^Y¥
@HWI-EAS443:3:13:951:619#0/1
AAAAGAAGTCTAATGTCGCAGTCCCGCACTCGCG
+HWI-EAS443:3:13:951:619#0/1
_abbbba_baaaaaaaaa_aa_aa`^`^a``_a^^a____
@HWI-EAS443:3:13:951:894#0/1
AAAAGAAGTCTAATGTCGCAGTCCCGCACTCGCG
+HWI-EAS443:3:13:951:894#0/1
ab`aa_`¥aaa`_a]`_a`[aa¥````_`^U_^_]¥^X
@HWI-EAS443:3:13:970:99#0/1
GTTGCTTCTCCCAACCATTGTGAATTCTTCATACCCTT
+HWI-EAS443:3:13:970:99#0/1
a]``[Z`T^¥QXXF^`^^S^^VZ]MT^_Za[QT]VQTY^S
@HWI-EAS443:3:13:994:551#0/1
AAAAGAAGTCTAATGTCGCAGTCCCGCACTCGCG
+HWI-EAS443:3:13:994:551#0/1
aaW_baa]baba]^`_`aa`aa]`a`__]__][[]]_]
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GAGAATAAAAGAAGTCTAATGTCGCAGTCCCGC
+HWI-EAS443:3:13:995:193#0/1
`a_RT_¥V^¥_]¥[X]__U__^Z_^V¥`NTTT]SFJV0YY
@HWI-EAS443:3:13:995:936#0/1
GAATAAAAGAAGTCTAATGTCGCAGTCCCGCAC
+HWI-EAS443:3:13:995:936#0/1
aXaaaaaaaaaaa_aaa_a`a`_aaaaa]_Z`a`Z__W^_]Y
@HWI-EAS443:3:14:1017:420#0/1
AAAAGAAGTCTAATGTCGCAGTCCCGCACTCGCG
+HWI-EAS443:3:14:1017:420#0/1
`aba`^a_aaaaaaa`_aaa`a¥]a¥aaU__V_¥Z^_V¥X
@HWI-EAS443:3:14:1057:1450#0/1
CCCGTTTTTCGTTTCATTACCAACTACGTCCCCTTGCCC
+HWI-EAS443:3:14:1057:1450#0/1
a____L¥`a_a]`^`^__aaa_a`^]`^`aX¥Y]]]VTY]^X]
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+HWI-EAS443:3:14:1086:758#0/1
¥¥]Y¥¥[Z__]P[X¥`^a``a]^XU¥Z[]]Y¥¥[[VT¥[[
@HWI-EAS443:3:14:1121:1784#0/1
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+HWI-EAS443:3:14:1121:1784#0/1
`a¥]J__^b_``__`¥```aVP`aW`¥a_VR][GSSZXOL
@HWI-EAS443:3:14:1125:676#0/1
GGTGGGTTCACTTTCAAAGGACAAGCGGATCATCAGTCA
+HWI-EAS443:3:14:1125:676#0/1
a`Y_a`]X^¥R¥_XR[^_W`_V^^X_V__]X]_V^^YXX
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+HWI-EAS443:3:14:1162:166#0/1
a_aa_`Z`a`Z_V__W`^__¥^¥U^WW[^VWW[^RV¥RR
@HWI-EAS443:3:14:1212:344#0/1
GCTGCTGCTCCACCAGAACAGAGTAGGATGCAATTTTCCT
+HWI-EAS443:3:14:1212:344#0/1
a)`^^`RS][S]ZT[W^[_`__KZ__U¥_[PV¥¥_¥¥UY
@HWI-EAS443:3:14:1216:95#0/1
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+HWI-EAS443:3:14:1216:95#0/1
aaaaa`_]aabaa¥aa]aa^`aa_`^`_`_`a^Z`_]`
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+HWI-EAS443:3:14:1218:864#0/1
aa`_]`^a^a`aaYU]]Wa_Y]a_Z`a`ZZ`aa`^a__¥U
@HWI-EAS443:3:14:1221:1261#0/1
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+HWI-EAS443:3:14:1221:1261#0/1
a]TZ`aU^RUa^PYa_`X^W¥YU¥^]VYU^U_`X^X`^a
@HWI-EAS443:3:14:1259:435#0/1
GCGAGATACTACTAAGACCACTGTGGACCATATGGCCAT
+HWI-EAS443:3:14:1259:435#0/1
a_`WSX_U_a`XT`X]a_`a`R`^M^SZ¥]`_]XMYX_U_
@HWI-EAS443:3:14:1260:402#0/1
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+HWI-EAS443:3:14:1260:402#0/1
abba`abbab_b`aaaaaa`aaba_a_a_a`ababa`_a
@HWI-EAS443:3:14:1299:1680#0/1
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+HWI-EAS443:3:14:1299:1680#0/1
XL^RS`SZW]S^aa]]X¥X¥^¥W^¥Z^RDLY[XWYVVVNQ
@HWI-EAS443:3:14:1301:443#0/1
GAACAAGGACAAACCCTCTGGAGCAAAACAAACGATGCTG
+HWI-EAS443:3:14:1301:443#0/1
^[\`^^^_Z^^]_]IT`_a_[L[[]`X[aaa_a`^RYa
@HWI-EAS443:3:14:1328:669#0/1
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+HWI-EAS443:3:14:1328:669#0/1
`a_aLa]_`b`ba[^_T]X^`[U[^[^Y]``]`^^a`^`^
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+HWI-EAS443:3:14:1369:1606#0/1
`aaaa`a]a`a_a`_¥__a^_¥_X__X_Z_]`__^V
@HWI-EAS443:3:14:1387:1648#0/1
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+HWI-EAS443:3:14:1387:1648#0/1
Y]baababaabbbaa_bbaba`_aWaa^Y`^MZ_]^[aR_
@HWI-EAS443:3:14:1392:212#0/1
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+HWI-EAS443:3:14:1392:212#0/1
aaa`a_a¥``_Za^__^a`¥`a_a`_¥UW__¥_^^_SV

@HWI-EAS443:3:14:1418:346#0/1
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+HWI-EAS443:3:14:1418:346#0/1
aabaabbbbbbbbabbaabbababbaba`^¥_baa`X_
@HWI-EAS443:3:14:1440:339#0/1
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+HWI-EAS443:3:14:1440:339#0/1
a`ab`a`aaa`a^aa^aa`aaaY^___`]`X_^``X_`^X
@HWI-EAS443:3:14:1476:292#0/1
CACTAAGACCACTGTGGACCATATGGCCATAATCAAAAAG
+HWI-EAS443:3:14:1476:292#0/1
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@HWI-EAS443:3:14:1511:1505#0/1
AAAAGTGCTTTTCCAGAAGTGGGAATTGAATCCATCGAC
+HWI-EAS443:3:14:1511:1505#0/1
aa`^bZb`aaa``__aW__aa`a^X_ba`a^a^_]_Y_]X
@HWI-EAS443:3:14:1543:899#0/1
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+HWI-EAS443:3:14:1543:899#0/1
aaaZa[[X]_`ZYY[`aZRY^`]`YX_[_W[¥TQY]VYT[
@HWI-EAS443:3:14:1554:322#0/1
GTCCCCTTTTCGTTTCATTACCAACTACGTCCCCTTGCC
+HWI-EAS443:3:14:1554:322#0/1
a`aab^`aa`b_`_^_aaa_¥a_W__`X_^X]¥X]_¥X
@HWI-EAS443:3:14:1556:370#0/1
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+HWI-EAS443:3:14:1556:370#0/1
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@HWI-EAS443:3:14:1565:17#0/1
GAATAAAGAAGTCTAATGTCGCAGTCCCGCAC
+HWI-EAS443:3:14:1565:17#0/1
a__^`¥[`a¥`^`_`_^]^^U^]]`^¥_]VXVYYSOQBB
@HWI-EAS443:3:14:1612:1434#0/1
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+HWI-EAS443:3:14:1612:1434#0/1
aaba``aa__a^]XaaaH¥`^`¥^¥G`G^_]G^_]G]RR
@HWI-EAS443:3:14:1643:876#0/1
AAAAGAAGTCTAATGTCGCAGTCCCGCACTCGC
+HWI-EAS443:3:14:1643:876#0/1
_`a_a`Yaa__XQR_Qa¥_``¥¥_¥^VRVWT¥Y¥WWWVW
@HWI-EAS443:3:14:1646:750#0/1
TGAATGTGAGAGGATCAGGGTTGAGGATACTGGTAAGAGG
+HWI-EAS443:3:14:1646:750#0/1
ab`[aaX^^a^a`YXSQ[]`W_ZWY_^^YTZ]VPW[]TQX
@HWI-EAS443:3:14:169:568#0/1
GGGACGTAGTGTGGTAATGAAACGAAAACGGGACTCTAG
+HWI-EAS443:3:14:169:568#0/1
aaa¥aa_^aab_bbaU`aaabaaa_a_aa`__¥Y¥_]`
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ACCAATTCTCTTTCTAGCATGTACGCCACCATCAAGGGAG

+HWI-EAS443:3:14:1723:262#0/1
^\a`a[aYa`¥Z`^aWaa`^a]a¥`]]`0^`S_¥a
@HWI-EAS443:3:14:1724:827#0/1
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+HWI-EAS443:3:14:1724:827#0/1
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@HWI-EAS443:3:14:1725:1291#0/1
CCGTTTTTCGTTTCATTACCAACTACGTCCCCTTGCCCA
+HWI-EAS443:3:14:1725:1291#0/1
aaaaabb`b`aa`aba``_ba`_aa`aa^_]¥^^`_¥^Z_
@HWI-EAS443:3:14:190:353#0/1
GTCCATTATTCTTGTCTGCTGTAATTGGGTATCTCATT
+HWI-EAS443:3:14:190:353#0/1
a_aa`_`_`_a^_a`_]`__^ZVTX_^[¥^N¥YUYVY¥Z
@HWI-EAS443:3:14:194:813#0/1
CCCGTTTTTCGTTTCATTACCAACTACGTCCCCTTGCCC
+HWI-EAS443:3:14:194:813#0/1
aaaa_`aab^a``aaaaa^Y_```Y_a^_`_`_Y^^^V
@HWI-EAS443:3:14:199:420#0/1
AGAGAATAAAAGAACTGAGAGATCTAATGTGCGAGTCCCG
+HWI-EAS443:3:14:199:420#0/1
a_QabaabZ`Ya`_aa`Q¥`bb^bb`Uab[abbaa]`^ab
@HWI-EAS443:3:14:200:1154#0/1
AGAGAATAAAAGAACTGAGAGATCTAATGTGCGAGTCCCG
+HWI-EAS443:3:14:200:1154#0/1
abb`abbbbab`U_abb```b_aaba_aa_aba^_UXaa`
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CTAATGTGCGAGTCCCGCACTCGCGAGATACTCACTAAGA
+HWI-EAS443:3:14:207:58#0/1
abaabb^aba]a``a¥aaZ_```¥`]aW^^Z^¥X¥Y]S¥W
@HWI-EAS443:3:14:215:434#0/1
CAATGTGATGGGAATGATCGGAATACTGCCCGACATGACC
+HWI-EAS443:3:14:215:434#0/1
a]]ba_b]aa``a``b]_]baa_aa`aaZ_]`a`^_`a]Z
@HWI-EAS443:3:14:221:926#0/1
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+HWI-EAS443:3:14:221:926#0/1
abba`VJ^QYaa_aaZ[YTba^WaaaaYY¥`Zaa[`Za`X
@HWI-EAS443:3:14:293:1879#0/1
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+HWI-EAS443:3:14:293:1879#0/1
`P_GYT]`[TWNRT]_`XYV]VLTVHXWYWWR]]]]S^PB
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a]aaaa_aaa`aa`_`a_a`_`_]```W`]a][`_`^^Y^
@HWI-EAS443:3:14:309:1310#0/1
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+HWI-EAS443:3:14:309:1310#0/1
a`a[`aXYZQZa`X¥¥Y¥X[``^`_`Y_U`]_WS[¥Y]^Q

@HWI-EAS443:3:14:313:1013#0/1
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+HWI-EAS443:3:14:313:1013#0/1
a`b_^[_P[]aa¥]a`]Zaa¥[W`_QZ`N_]aZ[M[V`¥[
@HWI-EAS443:3:14:326:1215#0/1
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+HWI-EAS443:3:14:326:1215#0/1
Z¥a``_a_aa`b_ZY`bbbaab]_`Z]aZ_a[DZ]``Za^
@HWI-EAS443:3:14:385:854#0/1
GTCCCGTTTTCGTTTTATTACCAACTACGTCCCCCTTGC
+HWI-EAS443:3:14:385:854#0/1
aaaZ`¥_aaaa`a`a_aX¥^]a__aa_a]^]a_`_SY_`
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+HWI-EAS443:3:14:396:1057#0/1
¥L¥aab_]`baaabbbb_a`]ba_aab_a_a_a`¥¥_^[
@HWI-EAS443:3:14:416:1742#0/1
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+HWI-EAS443:3:14:416:1742#0/1
aaa^X_¥^aa_UX^`¥__a_Z__a_a¥_``___¥Z`[W¥
@HWI-EAS443:3:14:420:1529#0/1
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+HWI-EAS443:3:14:420:1529#0/1
^SL_]YTU]S`_¥XV_¥^XUVVTY_Y¥RYV^Z]Y_XV]XY
@HWI-EAS443:3:14:421:1727#0/1
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+HWI-EAS443:3:14:421:1727#0/1
aaaY¥a``¥a¥^X`]a___X]ZX`^Y_] ^V^`X^V_X
@HWI-EAS443:3:14:436:1507#0/1
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+HWI-EAS443:3:14:436:1507#0/1
]baKa_¥YX]a`[¥Vaa`U]aYWR]RX]a[^`^a_[V_^
@HWI-EAS443:3:14:447:115#0/1
AGTATTCTTGCCCCACTTCATTTGGGAAAACAACTTCCA
+HWI-EAS443:3:14:447:115#0/1
aaS_aa`a_a_W_]¥¥]_`U^YX_^WZ¥]^WX]X]WZ
@HWI-EAS443:3:14:470:1055#0/1
ATCTAATGTCGCAGTCCCGCACTCGCGAGATACTCACTAA
+HWI-EAS443:3:14:470:1055#0/1
^`aa_Zaa_aaaa^^`aa_[H^Z¥`_a¥`¥[_¥[¥a_¥_a
@HWI-EAS443:3:14:487:403#0/1
GTCCCGTTTTCGTTTTATTACCAACTACGTCCCCCTTGC
+HWI-EAS443:3:14:487:403#0/1
aR]ab^_``^L^`_Y__`¥Z^[a_^S^^WOYR`WRVVY
@HWI-EAS443:3:14:489:15#0/1
ATGGTACCTTCGGCCCTGTCCACTTCAGAAATCAAGTTAA
+HWI-EAS443:3:14:489:15#0/1
Y`b_Yba_^aaaZ[R][a[[Ya^[_]a_[_`[LZ`]X]]^
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+HWI-EAS443:3:14:495:169#0/1
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+HWI-EAS443:3:14:507:906#0/1
abaaa`aa_aaaa`aaaa`_a_a``_Za`ZZ_RaXa`_Z
@HWI-EAS443:3:14:517:1697#0/1
TGCTGTAATTGGGTATCTCATTGCCATCATCCAATTTCATT
+HWI-EAS443:3:14:517:1697#0/1
[^V]YVab_bb`Y`_]_¥__ZX¥]^`XaX¥`^^a]Z_aa
@HWI-EAS443:3:14:526:1490#0/1
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+HWI-EAS443:3:14:526:1490#0/1
a`^_aaaaaa[^`_`a`¥¥_`^_aa__a__]`_`X_^]
@HWI-EAS443:3:14:550:1466#0/1
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+HWI-EAS443:3:14:550:1466#0/1
aabaaaaaaaaaaaaaaaa`aaaab`aaaab``_]__a`]¥_a
@HWI-EAS443:3:14:571:1992#0/1
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+HWI-EAS443:3:14:571:1992#0/1
a`aaWZ[^`a^VR¥¥_YYa]^`^`^`[¥VZY]U_^RSYY[^`
@HWI-EAS443:3:14:602:1732#0/1
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+HWI-EAS443:3:14:602:1732#0/1
aaba``aaba`¥aaaHaX^a__a^`XaWaaa``Q¥a[¥`]
@HWI-EAS443:3:14:615:324#0/1
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+HWI-EAS443:3:14:615:324#0/1
abaaa`aaaab`__aa_a`a`^a``^`X]Z]`]]_]X
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+HWI-EAS443:3:14:618:1100#0/1
aab]`_¥^`a¥¥aa]Y^¥`a]^`a__a`YVZ¥PY]RVYR¥
@HWI-EAS443:3:14:624:1827#0/1
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+HWI-EAS443:3:14:624:1827#0/1
ab`aa`aa¥[¥aYaLaa`_]a`ZVaa]¥`Q[GGPRN_ZG
@HWI-EAS443:3:14:679:1809#0/1
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+HWI-EAS443:3:14:679:1809#0/1
`[X`a`a_a^XZ¥RQbaa_b^aYaR`^[_aZUa^_^]S]]
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+HWI-EAS443:3:14:683:1828#0/1
R__babZ_a_abab¥Ia`abababbbabbaaa`aZa_a^a
@HWI-EAS443:3:14:684:1127#0/1
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+HWI-EAS443:3:14:684:1127#0/1
`aab¥`_aaa^YN]a`^`a_YZaaaa[R[X]NZTPX

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+HWI-EAS443:3:14:686:1313#0/1
aaabbbbaabbb`bababba`b`aababaab]_¥a`a
@HWI-EAS443:3:14:687:1575#0/1
ACAAGCCGTAGACATATGCAAGGCAGCAATAGGGTTGAGG
+HWI-EAS443:3:14:687:1575#0/1
¥` [W]¥NWYQO^ZZLUXGT]^aaV¥]V[BBBBBBBB
@HWI-EAS443:3:14:688:279#0/1
AAAAGAAGTGAAGATCTAATGTCGAGTCCCGCACTCGC
+HWI-EAS443:3:14:688:279#0/1
aaa_aaa`aaaa`_`¥a` `` `W___`^¥__¥W¥¥Y¥^¥
@HWI-EAS443:3:14:691:1377#0/1
AAGAAGTGAAGATCTAATGTCGAGTCCCGCACTCGCGA
+HWI-EAS443:3:14:691:1377#0/1
]_aaba`aa_a`__aaa^adWa¥Y_[WW_[^UNV^Q_QBB
@HWI-EAS443:3:14:710:384#0/1
GGATGGTGGACATCCTTAGACAGAATCCAAGTGAAGACA
+HWI-EAS443:3:14:710:384#0/1
^abbb_[[bb_baaa`bb`a`baaaaaba_ab_aaaa^b
@HWI-EAS443:3:14:863:214#0/1
TCCTGATGTGTACTTTTTGATTATGGCCATATGGTCCACA
+HWI-EAS443:3:14:863:214#0/1
aaaaa_aa_a_]Vaaaa`_a` `` __XX_^)^Y]ZYW]W^
@HWI-EAS443:3:14:868:1156#0/1
CCCGTTTTCGTTTCATTACCAACTACGTCCCCTTGCCC
+HWI-EAS443:3:14:868:1156#0/1
aaba¥aaaabaaa`bb`ba`a[aba`b_a^` `` __a`¥^
@HWI-EAS443:3:14:892:1744#0/1
GACCAATTCTTTCTAGCATGTACGCCACCATCAAGGGA
+HWI-EAS443:3:14:892:1744#0/1
a^ababaXR[_aa]b_aKT_¥W`]^`]` _[¥Y__^]W]
@HWI-EAS443:3:14:896:454#0/1
CACGTCCCTTGGGTTAAGTGAACACTTCAATATAAACAC
+HWI-EAS443:3:14:896:454#0/1
` `a`X`aab^b`b[a` `aYaaaaaa`b` `a_baaa_a` `U
@HWI-EAS443:3:14:913:1316#0/1
GTCCATTATTCTTTGTCTGCTGTAATTGGGTATCTCATT
+HWI-EAS443:3:14:913:1316#0/1
a]aa`_aa`a`a`Y]]aa_^]`^Z]^__^]W`W^^X_Z¥
@HWI-EAS443:3:14:913:1477#0/1
AGAGAATAAAAGAACTGAGAGATCTAATGTCGAGTCCCG
+HWI-EAS443:3:14:913:1477#0/1
abaaaa`_`aaaaaaa`[aab`^a`^aaa_a___aZ`a]^
@HWI-EAS443:3:14:917:1439#0/1
AAAGAAGTGAAGATCTAATGTCGAGTCCCGCACTCGCG
+HWI-EAS443:3:14:917:1439#0/1
aa` `b_]aa__a` `aa[_]V__ [aa_____Z^_[PV`]_
@HWI-EAS443:3:14:923:942#0/1
CGCACTCAGAATGAAGTGGATGATGGCAATGAGATACCCA

+HWI-EAS443:3:14:923:942#0/1
aaaaaaaaaba_aa__a^aa`aa_`_`__aa_a__a_`[`
@HWI-EAS443:3:14:93:1018#0/1
GGCGATCTGAACCTTGTCAATAGGGCAAACCAGCGACTGA
+HWI-EAS443:3:14:93:1018#0/1
aabba^]¥¥_``aaaY]a__`a_]`_Zaa]a`a`a`a_]U
@HWI-EAS443:3:14:946:120#0/1
AAAGAAGTCTGAGAGATCTAATGTTCGAGTCCCGCACTCGCG
+HWI-EAS443:3:14:946:120#0/1
aaa`¥a¥`b`¥]_`_]_a]aa¥]]][aQT]¥`]VYSV]X^
@HWI-EAS443:3:14:955:958#0/1
AGAGAATAAAAGAAGTCTGAGAGATCTAATGTTCGAGTCCCG
+HWI-EAS443:3:14:955:958#0/1
aa__T[_bab^bb]aba`_`ba`a_]Y]b^^a`^`a`^aX_
@HWI-EAS443:3:14:98:1974#0/1
GTCCCGTTTTTCGTTTTATTACCAACTACGTCCCTTGC
+HWI-EAS443:3:14:98:1974#0/1
a_baba[`aa`UZ`aaaaaaaa`aa`aaSY`Z`]^X_
@HWI-EAS443:3:15:1001:440#0/1
CCCGCACTCGCGAGATACTACTAAGACCACTGTGGACCA
+HWI-EAS443:3:15:1001:440#0/1
`_`_a`^bbY0_[bbababaaaab^a`^Xaab`^¥a`aa
@HWI-EAS443:3:15:1017:1283#0/1
CTCGGTCTGATCCAGCATCGTTTTGTTTTGCTCCAGAGGGT
+HWI-EAS443:3:15:1017:1283#0/1
aaaaaYa`a`X__a]¥a_a`¥`Z`_`Z__¥Q[Z[a[VV
@HWI-EAS443:3:15:1038:555#0/1
AAGCACTTTTGCATCTTTTTGGAAATGCCTCAAGAGTTGG
+HWI-EAS443:3:15:1038:555#0/1
`bba`aaaaaaaa_a^aaaaab_aa_aaa^a^__a`a`^`_`^
@HWI-EAS443:3:15:1063:929#0/1
AAAGAAGTCTGAGAGATCTAATGTTCGAGTCCCGCACTCGCG
+HWI-EAS443:3:15:1063:929#0/1
`aa[Va`aa_a`[^_`aa`aaV]_`^`aR¥__`^V]__`]V]
@HWI-EAS443:3:15:1069:1880#0/1
GAGAGATCTAATGTTCGAGTCCCGCACTCGCGAGATACTC
+HWI-EAS443:3:15:1069:1880#0/1
ab`a^^_T`ab`b`_b]a_NZ_aa¥[¥R[aZ¥`b`_`baaa
@HWI-EAS443:3:15:1120:599#0/1
AAAGAAGTCTGAGAGATCTAATGTTCGAGTCCCGCACTCGCG
+HWI-EAS443:3:15:1120:599#0/1
aabaab`bba[aaaa^aaaab_aa`a`^`Z_aa_^_]a^^`
@HWI-EAS443:3:15:1127:1912#0/1
CTCTTGTCTTCTTTGCCAAAATGAGAAATCCTCTCAGGA
+HWI-EAS443:3:15:1127:1912#0/1
aa_b`^`ab^b_Y^`^`bbb^`^`bbbbb`bb`[^`abbaa
@HWI-EAS443:3:15:1135:1111#0/1
AGAAAGAAGAGCTCCAGGATTGTAATAATTGCTCCCTTGAT
+HWI-EAS443:3:15:1135:1111#0/1
Vbb_ba`a[ab]b_Y_bbbbbbaa`a]aaa_a`^`_ba]aa

@HWI-EAS443:3:15:1152:213#0/1
GACACTGTCCAAATAATAAACTTCTCCCCTTTGCTGCTG
+HWI-EAS443:3:15:1152:213#0/1
_`bbb]aW_P^^aaa`Raaaaa`_`XL[]_Q__Y_^_] [
@HWI-EAS443:3:15:1177:764#0/1
CTGTAATTGGGTATCTCATTGCCATCATCCACTTCATTCT
+HWI-EAS443:3:15:1177:764#0/1
`bbbbbbb`¥`¥b`^`^abab`Raa``aV^]`aa``baZ^
@HWI-EAS443:3:15:1182:1140#0/1
AAAAGAAGTCTGAGATCTAATGTCGCAGTCCCGCACTCGC
+HWI-EAS443:3:15:1182:1140#0/1
abbbbbbbbbbbbbbaabbabbaba`ab`aa``a`aaaa_
@HWI-EAS443:3:15:1204:728#0/1
TGATGTTGACCAAAGTTTGATTATCGCTGCTAGAAACATA
+HWI-EAS443:3:15:1204:728#0/1
[b^a```^Y[^][LWX`bb_bZ`X^____`^^`]ZVRY^a
@HWI-EAS443:3:15:1244:617#0/1
CTGCTGTAATTGGGTATCTCATTGCCATCATCCACTTCAT
+HWI-EAS443:3:15:1244:617#0/1
_XSa]]LFM_XTOMV`a]X[X[¥QNRYS]ZMUJ[[_LSX
@HWI-EAS443:3:15:1248:1312#0/1
CACTGACTCAGGGCATTGATCTCCCACATCATTGATGAC
+HWI-EAS443:3:15:1248:1312#0/1
abba`aabbba[]I^abY]`a_aa_aa^aa_a^__`aa`^
@HWI-EAS443:3:15:125:1223#0/1
ATGGCAATGAGATACCCAATTACAGCAGACAAGAGAATAA
+HWI-EAS443:3:15:125:1223#0/1
aaaaaa`aa_a`aaaaaaaa`_a`_a``aa__a`_`a`
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AAGTGCTTTTCCAGAAGTGGGAATTGAATCCATCGACAA
+HWI-EAS443:3:15:1271:1117#0/1
[QYSa[`abb`^`^abbabbaba^aa`_aaa_baabb]aa
@HWI-EAS443:3:15:1311:1960#0/1
ATTTTACAATCCTGGAGCTCTTCTTCTTCTTTTGTTA
+HWI-EAS443:3:15:1311:1960#0/1
][_¥¥a``baZ[MFT¥a_¥KV`Zbb[G¥^S]W`abbb`a
@HWI-EAS443:3:15:1322:1145#0/1
AGAGAATAAAAGAACTGAGAGATCTAATGTCGCAGTCCCG
+HWI-EAS443:3:15:1322:1145#0/1
W`aa_X¥H_¥R`bba``[¥`ba`ab`abb`abWbb]^WQU
@HWI-EAS443:3:15:1330:1662#0/1
GAATAAAAGAACTGAGAGATCTAATGTCGCAGTCCCGCAC
+HWI-EAS443:3:15:1330:1662#0/1
aaaaaaaaaaaa^aaaaa``_aa_aa^__^`a^X^^`_]X
@HWI-EAS443:3:15:1353:385#0/1
GCTAGAGTCCCGTTTTCGTTTCATTACCAACTACGTCC
+HWI-EAS443:3:15:1353:385#0/1
abbaa_a^a]¥aaaaa[b__a_aaa`__`^a`_a^a_¥_
@HWI-EAS443:3:15:1358:1408#0/1
GGAATAGGAATGGCCCAACAACAAGTACAGTTCATTACCC

+HWI-EAS443:3:15:1358:1408#0/1
aa¥a_a^a` `` ` ^ ` __ ` _ [^ ` U _] _ Z ^ Z __] _ [[W
@HWI-EAS443:3:15:1370:511#0/1
GACAGAATCCAAGTGAAGCAAGCCGTAGACATATGCAA
+HWI-EAS443:3:15:1370:511#0/1
` ` ¥ X ^ T b a N _ ` R a Z b _ `] ^ _ [a a ` P [b]] b _ Z a ` a ¥ W ` _ ^
@HWI-EAS443:3:15:1435:737#0/1
AAAAGAAGTGAAGATCTAATGTCGCAGTCCCGCACTCGC
+HWI-EAS443:3:15:1435:737#0/1
aaba` P ¥ _ b a ` b a a _ Y _ b a ` a ` T Z ` ^ ` [Z a _ a a _ ¥] ` _ _]
@HWI-EAS443:3:15:1447:194#0/1
GTCCCGTTTTCGTTTTATTACCAACTACGTCCCTTGC
+HWI-EAS443:3:15:1447:194#0/1
aYb ` ^ b _ a a a] b ` ` b a ` a a _ a _ a ` P ` Y a ` U T _] S H X _ ¥ V]
@HWI-EAS443:3:15:1456:800#0/1
GTCCCGTTTTCGTTTTATTACCAACTACGTCCCTTGC
+HWI-EAS443:3:15:1456:800#0/1
aaaaabaabaabaab ` ` a a a `] ` a ` a _ a ` _ a ^ ^ ^ Z ^ ` a ^
@HWI-EAS443:3:15:145:434#0/1
CATGATTCCAGAGGAATGAACAAGGACAAACCCTCTGG
+HWI-EAS443:3:15:145:434#0/1
S ` T a a _ _ b _ W U F ^ ` [_ b ^] U _] a `] M V b Z] ^ X V ¥] Y Y P
@HWI-EAS443:3:15:1520:983#0/1
CCCCGTTTTCGTTTTATTACCAACTACGTCCCTTGC
+HWI-EAS443:3:15:1520:983#0/1
abbb ` b b b b a a b b a a b b b b ` ` a _ b a b a ` ` ` a ` _ a a ` b a V]
@HWI-EAS443:3:15:1555:744#0/1
ATAAAAGAAGTGAAGATCTAATGTCGCAGTCCCGCACTC
+HWI-EAS443:3:15:1555:744#0/1
_ a a ¥ a a a a b a _ Z Z ` ¥ ^ _ a _ a ` ¥ ^ a ` _] [¥ ^ P `]] _ S Q Y _]
@HWI-EAS443:3:15:1578:566#0/1
GAAGAGCAACAGCTATTCTCAGAAAGGCAACCAGGAGATT
+HWI-EAS443:3:15:1578:566#0/1
abbaabaaa ` a a [` ` a ` _ ` _ ` a _ a _ ` _ _ _ a ¥] _ ` a] a _] `
@HWI-EAS443:3:15:1588:1770#0/1
GAGAATAAAAGAAGTGAAGATCTAATGTCGCAGTCCCGC
+HWI-EAS443:3:15:1588:1770#0/1
_ a ¥ a a] ` ` ` a b b b a `] W b b ` Z a _] b K a a N P Z U ^ _ ¥ P X H Y P
@HWI-EAS443:3:15:160:150#0/1
AAGTGGATGATGGCAATGAGATACCCAATTACAGCAGACA
+HWI-EAS443:3:15:160:150#0/1
aaa ` _ a a ^ b a a a a a a _ a a _ a a _ a ` _ a ` ^ ` ^ a `] X _ _ Z _
@HWI-EAS443:3:15:1635:724#0/1
AAAGAAGTGAAGATCTAATGTCGCAGTCCCGCACTCGCG
+HWI-EAS443:3:15:1635:724#0/1
abbb ^ ¥ H _ ^ a b b b a b T a a a ` ^ X _ ` _ ` ` a Z ` _ [U X W X [_ []
@HWI-EAS443:3:15:1640:1228#0/1
CTGTGGCACATTTCCAAGAGAGATGCTAATGGGTCTGCTG
+HWI-EAS443:3:15:1640:1228#0/1
aabb ` ` b a] _ b b b a ` ` b b a a b a a b ` b ` ` b a a b W a ` ` ^ a a

@HWI-EAS443:3:15:1672:148#0/1
GATTCCAGAGAGGAATGAACAAGGACAAACCCTCTGGAGC
+HWI-EAS443:3:15:1672:148#0/1
`_`aSV`b`a^b`aaabaa`a`ba`WZa_TUU_G]a^^`P
@HWI-EAS443:3:15:1697:1422#0/1
TAATTGGGTATCTCATTGCCATCATCCACTTCATTCTGAG
+HWI-EAS443:3:15:1697:1422#0/1
aaaaaaa_^aa^aX```a^V_a[``_V][Ya^Y_``X`^]¥
@HWI-EAS443:3:15:1698:759#0/1
ATAAAAGAAGACTGAGAGATCTAATGTCGCAGTCCCGCACTC
+HWI-EAS443:3:15:1698:759#0/1
a``¥a_`_¥Vbaabab_ZX_b[a`U_SZ`_¥SHPaSTLYU
@HWI-EAS443:3:15:1707:690#0/1
TCTCTTTCTAGCATGTACGCCACCATCAAGGGAGCAATTT
+HWI-EAS443:3:15:1707:690#0/1
a]b]abaU`ab_aaaaa`U[[a]¥_SV`[a`¥`a^aX_Z_
@HWI-EAS443:3:15:1719:823#0/1
CTCAGGGCCATTGATCTCCACATCATTGATGACGAATAA
+HWI-EAS443:3:15:1719:823#0/1
`bbbbabaabaaaaaaaaa___`aa_`a`aaaa^Wa``a`_
@HWI-EAS443:3:15:1728:129#0/1
GTCCCGTTTTTCGTTTTATTACCAACTACGTCCCTTGC
+HWI-EAS443:3:15:1728:129#0/1
a`aa`b`bbb¥baaa_`baa¥0aa]a^aa^`Z[W^]`])`W
@HWI-EAS443:3:15:1745:1956#0/1
ATAACATTGTGGGATCTTGTGACCATTGAATTTTACAAT
+HWI-EAS443:3:15:1745:1956#0/1
aabaaaaaaaa_][_aaaaZ]]_])`aaa``_aaa`aa_a
@HWI-EAS443:3:15:1769:627#0/1
GTTTGTGTTTGTCCAGAGGGTTTGTCTTGTTCATTCTC
+HWI-EAS443:3:15:1769:627#0/1
a^^`a`ZZaa_a_]W`¥a`XW__¥RPF[]`[WP^`¥XMX
@HWI-EAS443:3:15:1775:1889#0/1
GGGGACGTAGTGTGGTAATGAAACGAAAACGGGACTCTA
+HWI-EAS443:3:15:1775:1889#0/1
abbbab^aa`a`abbSabb_[a^F_aaa_F_```^a__a
@HWI-EAS443:3:15:1788:941#0/1
ATAAAAGAAGACTGAGAGATCTAATGTCGCAGTCCCGCACTC
+HWI-EAS443:3:15:1788:941#0/1
abbbba_X_`babbbbbb]ab^Y]b`[_UVa[GXa_ZaH__
@HWI-EAS443:3:15:184:688#0/1
AAAGAAGACTGAGAGATCTAATGTCGCAGTCCCGCACTCGCG
+HWI-EAS443:3:15:184:688#0/1
abbaYa_a]aaaa`aa`aaaa]a]]`^Y```_]_Wa^^N[V
@HWI-EAS443:3:15:186:208#0/1
GGGTGGAGTCTGCTGTCCTGAGAGGATTTCTCATTTTGGG
+HWI-EAS443:3:15:186:208#0/1
abbWa`aa_a`aaaa¥a__a`aaa___`__`__`_^`^¥_
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@HWI-EAS443:3:15:421:1987#0/1
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+HWI-EAS443:3:15:421:1987#0/1
`[a_a_aaZ__VR¥Ya_`]QU]RZ[^_a_``ZX_WV¥]RX
@HWI-EAS443:3:15:454:1798#0/1
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+HWI-EAS443:3:15:454:1798#0/1
abbabab]^¥_¥aaaaaPaa`abaY_Waab`TV^_aX]_
@HWI-EAS443:3:15:45:2044#0/1
TGGGTATCTCATTGCCATCATCCACTTCATTCTGAGTGCG
+HWI-EAS443:3:15:45:2044#0/1
aaaaW``aaaa_aaaa__a__`a_`_X`a]_`^Y]X]S`
@HWI-EAS443:3:15:501:214#0/1
GAGGATTTCTCATTTTGGGCAAAGAAGACAAGAGATATGG
+HWI-EAS443:3:15:501:214#0/1
Y]ba[V_aaaaa`U^`W^aa`0`____]X`]Ma^_¥]`]__
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AAAGAAGTGAAGATCTAATGTCGCAGTCCCGCACTCGCG
+HWI-EAS443:3:15:50:1518#0/1
aa^^VZ`WQW_URWa_aS_a`a[¥`YG_YaL]^_] [KKT
@HWI-EAS443:3:15:532:212#0/1
CTTCTGATGTGTACTTTTTGATTATGGCCATATGGTCCA
+HWI-EAS443:3:15:532:212#0/1
`ba__a^a`_b`a``aab`^Z`_aW]_ZPXTT_NZUV
@HWI-EAS443:3:15:543:385#0/1
TTACTATCAACTGGATCAATCTCCTGGTTGCCTTTCTGAG
+HWI-EAS443:3:15:543:385#0/1
abaaa^T¥GYNZ^Xb` []^`U^`aP^`HPXUR`]a``aY_
@HWI-EAS443:3:15:612:1150#0/1
GGCGATCTGAACCTTGTCAATAGGGCAAACCAGCGACTGA
+HWI-EAS443:3:15:612:1150#0/1
``ba]^aZSUWU^a¥Z]``aWTSY][0_a]U^]]`_[[[Y
@HWI-EAS443:3:15:614:237#0/1
GGAAATGTGCCACAGCACACAGATTGGAGGAGTAAGGATG
+HWI-EAS443:3:15:614:237#0/1
aaabb¥b[aaaaaab`a`_[aa[__aa[___]aR`_a^^]_
@HWI-EAS443:3:15:624:1824#0/1
CAGTCCCGCACTCGCGAGATACTACTAAGACCACTGTGG
+HWI-EAS443:3:15:624:1824#0/1
Ta[F^ba]b_W^TWXTa_^]^aUaR¥T`ZX_a_S]T^^`W
@HWI-EAS443:3:15:672:597#0/1
GAGATCTAATGTCGCAGTCCCGCACTCGCGAGATACTCAC
+HWI-EAS443:3:15:672:597#0/1
abZ`_a]baab¥ba`]b[aabX^T¥a`a_a_a[___V___[Z
@HWI-EAS443:3:15:674:1902#0/1
AAAGAAGTGAAGATCTAATGTCGCAGTCCCGCACTCGCG
+HWI-EAS443:3:15:674:1902#0/1
a[bab`a^`a`aba`Y^^aa`]b`a[YIU`aY`]`¥aaY^
@HWI-EAS443:3:15:676:1746#0/1
TAGTACGTTCCCTCTTTGATCTCTAACCTTAAAAATCGG

+HWI-EAS443:3:15:676:1746#0/1
a_¥]aa_G]a¥^]Z`^bba_a`[aa`MU]_`a^aa`a¥__
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TGAAGTGGGGGCAAGAATACTGACATCAGAGTCACAGCTG
+HWI-EAS443:3:15:719:232#0/1
aba_aVaaaa`_aaa`aa_``_]`^`^a¥___^^ZX_
@HWI-EAS443:3:15:727:690#0/1
CCCCACTCAGAATGAAGTGGATGATGGCAATGAGATACC
+HWI-EAS443:3:15:727:690#0/1
ababbbaaa`a]abaZabNaa_``YVaaV__`_a```a``
@HWI-EAS443:3:15:779:1045#0/1
AAAAGAAGTGGAGATCTAATGTCGCAGTCCCAGTCCG
+HWI-EAS443:3:15:779:1045#0/1
¥`^¥`^`^`]a`XZY^abXab_`_a``V[RUWWLX]aYV
@HWI-EAS443:3:15:783:688#0/1
ATTCCCCAGTTCTGGAAAAGCACTTTTGCATCTTTTGGGA
+HWI-EAS443:3:15:783:688#0/1
abb`b[aba`a`_]Z]`ZZ`X]¥_Z`_aaaYaXTXY[¥a
@HWI-EAS443:3:15:793:1862#0/1
GGCATTTCAAAAAGATGCAAAAGTGCTTTTCCAGAACTG
+HWI-EAS443:3:15:793:1862#0/1
a`_SY]]¥W[_WWK]RP[Y¥PU]`HWG[UR]O]]^W[]^^
@HWI-EAS443:3:15:830:691#0/1
CGCACTCGCGAGATACTCACTAAGACCACTGTGGACCATA
+HWI-EAS443:3:15:830:691#0/1
aab_babbaa`aaaa`aa`aab`aa]_a^`]a]`]a__a
@HWI-EAS443:3:15:839:543#0/1
TGCTGTAATTGGGTATCTCATTGCCATCATCCACTTCATT
+HWI-EAS443:3:15:839:543#0/1
]Xa¥a__Za^_a¥LVSUW``RQSUDU`aaY[HTTNVWOLS
@HWI-EAS443:3:15:850:219#0/1
GGGGACGTAGTGTGGTAATGAAACGAAAACGGGACTCTA
+HWI-EAS443:3:15:850:219#0/1
abb`^`b`ab]b^aaa]^`_¥``_]_W_]aG]]^UX^^XX
@HWI-EAS443:3:15:860:1296#0/1
GTCCCGTTTTCGTTTCATTACCAACTACGTCCTTGC
+HWI-EAS443:3:15:860:1296#0/1
a`aa`a]_a``a_```aa`aaaa`_a`_a_]Z_a__^]]_
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+HWI-EAS443:3:15:866:174#0/1
ZN_aaaabaa`_YVZaaaa`_a_a^S^a[a____[_RP
@HWI-EAS443:3:15:89:1026#0/1
CTCGCGAGATACTCACTAAGACCACTGTGGACCATATGGC
+HWI-EAS443:3:15:89:1026#0/1
a]b¥Z¥X_W^^QTaa]]a`[Xa¥[UY]V_]a]Z_W[a^]
@HWI-EAS443:3:15:907:24#0/1
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@HWI-EAS443:3:15:920:693#0/1
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+HWI-EAS443:3:15:920:693#0/1
aba`V_]Q_TWQZ¥Y]a_¥^aa`ULW^¥OQLVTOSX]L^S
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CAGGTGCATTGACTGAAGATCCAGATGAAGGCACATCTGG
+HWI-EAS443:3:15:923:552#0/1
]bb`]bbbb]aabbabbbaa_aaa`aababaa]_baZaba
@HWI-EAS443:3:15:924:600#0/1
CGCACTCGCGAGATACTCACTAAGACCACTGTGGACCATA
+HWI-EAS443:3:15:924:600#0/1
abb_PZX_¥Y`^]Y]bba[S^a`]YQPLLaMb]R`]HUaL
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GCGGGATGTGCTTGGGACATTTGACACTGTCCAAATAATA
+HWI-EAS443:3:15:960:396#0/1
aaba`__b`a___a]`^____`_`_]_]`_¥YWW^____X`
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CTCGCGAGATACTCACTAAGACCACTGTGGACCATATGGC
+HWI-EAS443:3:16:1006:577#0/1
]ba`UX_baU`ba`aabbaabbZ`bSa¥aa]W¥a_[]`
@HWI-EAS443:3:16:105:382#0/1
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+HWI-EAS443:3:16:105:382#0/1
aaaabaaaa_^]`a_`¥a]¥a_a^^aa_^a`^^^]X]][]
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+HWI-EAS443:3:16:1126:1404#0/1
a]Z^U[baabaaa`aaaaab_a`_aa_X`]`¥`a¥`_^`_`
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+HWI-EAS443:3:16:1157:1677#0/1
aaabbab^`a__`a¥aa`aaaaaaa`a^aaa`Uaa```aa
@HWI-EAS443:3:16:124:77#0/1
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+HWI-EAS443:3:16:124:77#0/1
abbaaababbZbaabaaaaabaabaaaaaaa_aaV¥_
@HWI-EAS443:3:16:1255:320#0/1
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+HWI-EAS443:3:16:1255:320#0/1
ab`abaaaababb`aa_baaaaaaaaaaaa_YaZa`]_a
@HWI-EAS443:3:16:1260:645#0/1
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+HWI-EAS443:3:16:1260:645#0/1
HWNW]V`aa¥[]¥¥XX^`]NRZY[^V`QXFXOYRNTZ
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CTCAGAATGAAGTGGATGATGGCAATGAGATACCCAATTA
+HWI-EAS443:3:16:1314:207#0/1
``a_][]`_¥NQb[a_aTZYRaa``][aYXXP`U]OYY_X_
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+HWI-EAS443:3:16:1336:1406#0/1
`]HWaZaa_aaa_[Y^a`_`_^ZX_`__[VZ^]]XIJNUX
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GAATAAAAGAACTGAGAGATCTAATGTCGCAGTCCCGCAC
+HWI-EAS443:3:16:1393:618#0/1
aS_]`aa][OU¥`^^^]`_^]`_V¥^_X]_VUNXUTNR
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+HWI-EAS443:3:16:1463:1091#0/1
aaaaa`bba_``aaaaa[¥`_`a¥a_aaXJX^`_¥`^U[
@HWI-EAS443:3:16:1484:1188#0/1
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+HWI-EAS443:3:16:1484:1188#0/1
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@HWI-EAS443:3:16:1521:1588#0/1
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+HWI-EAS443:3:16:1521:1588#0/1
`abbba`aaabb[baaaa_aaaaaaaaaaW_`a¥a_aa¥`a
@HWI-EAS443:3:16:152:1363#0/1
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+HWI-EAS443:3:16:152:1363#0/1
aaa`_]aa_`[a`aZ``aa`aW__`]XNX¥aT`¥_W^WW
@HWI-EAS443:3:16:1533:1236#0/1
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+HWI-EAS443:3:16:1533:1236#0/1
abaaa`aabaab`_`[_ba`aaZaa_aa]]_X¥_X`XU_¥
@HWI-EAS443:3:16:1551:489#0/1
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+HWI-EAS443:3:16:1551:489#0/1
_ZaaZa_Y¥`]XHV¥]¥¥`^`^^^Y¥^^U¥ZY^VYY[ST
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+HWI-EAS443:3:16:1555:2001#0/1
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+HWI-EAS443:3:16:1557:1820#0/1
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@HWI-EAS443:3:16:1558:122#0/1
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+HWI-EAS443:3:16:1558:122#0/1
a`aaa_aaa_a_aa_¥_`]`^`^`^_a^^]UY_X]UXZZX^
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aa__VX`Z____`^aW]^Z^^W[`T_^XPWTZWV^WVWRW]

+HWI-EAS443:3:16:364:1517#0/1
abaR`ab`aaa`_P_aa`a^^`_]____[`W_Z_YW_]]
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+HWI-EAS443:3:16:381:872#0/1
a][[aaaaaaa]aaW`a___aa`^_^`_a___^^___^`
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+HWI-EAS443:3:16:385:1918#0/1
aaaaa_aba¥___`_a___`_^a`[_a_Y__¥V]^Z___`_`
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GTCCCGTTTTCGTTTTATTACCAACTACTCGTCCCTTGC
+HWI-EAS443:3:16:398:235#0/1
aaaa`b^]]_aaZ`_a___`_^`_`_a`[_¥aY^UVRWRRW
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GTCCCGTTTTCGTTTTATTACCAACTACTCGTCCCTTGC
+HWI-EAS443:3:16:418:51#0/1
a¥`a`a_aaa`b^`_]Ua_aZ¥___`_^]]ZWZY¥T¥U¥U
@HWI-EAS443:3:16:43:799#0/1
ATGAAGGCACATCTGGGGTGGAGTCTGCTGTCCTGAGAGG
+HWI-EAS443:3:16:43:799#0/1
a___`X[[aa`¥aa_ZZY¥W[_Z___`¥`_]U___W^W]U^`
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CAAAATGAGAAATCCTCTCAGGACAGCAGACTCCACCCCA
+HWI-EAS443:3:16:448:272#0/1
aa[aS¥a_aaba`aaaaaaaa`aa`a^[\`^`Z^`_ZZ`
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GCTAGAGTCCCGTTTTCGTTTTATTACCAACTACTCGTCC
+HWI-EAS443:3:16:449:1886#0/1
`bab`a_Ua[[a___^`aY_^]]aa_a]Za^¥aG_a`TTT¥
@HWI-EAS443:3:16:483:895#0/1
AAAGAAGTGGAGATCTAATGTCGCAGTCCCGCACTCGCG
+HWI-EAS443:3:16:483:895#0/1
VGW¥`^`a[¥¥`^babbaaa`ab]^__[]`]]]__a_a
@HWI-EAS443:3:16:489:546#0/1
CCGCACTCGCGAGATACTACTAAGACCACTGTGGACCAT
+HWI-EAS443:3:16:489:546#0/1
aa¥`]baabaaaa`¥aaa`_`X`aa`^`a___aa`a`
@HWI-EAS443:3:16:493:1168#0/1
ATCTAATGTCGCAGTCCCGCACTCGCGAGATACTACTAA
+HWI-EAS443:3:16:493:1168#0/1
Xabb[_]a^a`b¥XP__^VOZRZ^V]__¥¥X]^YQ[ZWZ[
@HWI-EAS443:3:16:517:981#0/1
AAAAGAAGTGGAGATCTAATGTCGCAGTCCCGCACTCGC
+HWI-EAS443:3:16:517:981#0/1
aaX`^P]`aV_N¥`XY[`__`Q`_`U^H`_aYa]^X]X]
@HWI-EAS443:3:16:547:1657#0/1
GTTCTCAGTTGGATTCTGTCTAAGGATGTCCACCATCCT
+HWI-EAS443:3:16:547:1657#0/1
aaabbY^Z_aaYI^aaa`]__`aZ[^__`_]ZR`^a]SYY

@HWI-EAS443:3:16:553:460#0/1
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+HWI-EAS443:3:16:553:460#0/1
a_`aaaa^_aaa`_a]``a^_]``_aW`]^]]_]]^]]Y_
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+HWI-EAS443:3:16:560:949#0/1
Y[_Zbba`XYY`aaaab[aabaab`Yaa`abaaaa`ab`_
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GTTCTTGAAAGGATGCAGGTGCATTGACTGAAGATCCAG
+HWI-EAS443:3:16:599:736#0/1
a^^^]_aa^_a`ZZa`_a`Q_]¥^__`¥____`¥^¥_¥¥_
@HWI-EAS443:3:16:627:1016#0/1
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+HWI-EAS443:3:16:627:1016#0/1
a^Z[H^T_YaYa]a^V[_`a```_0^Y]a`XPYYYYVWWQ
@HWI-EAS443:3:16:69:709#0/1
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+HWI-EAS443:3:16:69:709#0/1
`¥[Z¥U¥IPbba[Y¥Tbbb_]`bQb¥Y¥[]`¥VYN¥JR_
@HWI-EAS443:3:16:711:1106#0/1
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+HWI-EAS443:3:16:711:1106#0/1
aV¥¥^a^_V[^a¥[^TS_^____¥¥¥`U¥W_WT^S_YWUB
@HWI-EAS443:3:16:781:926#0/1
GAGAGATCTAATGTTCGAGTCCCGCACTCGCGAGATACTC
+HWI-EAS443:3:16:781:926#0/1
_b^]] [Z`a_aaa¥^aaaaUUaa^a^a[``_`W_Q¥WQYS
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+HWI-EAS443:3:16:79:1650#0/1
`bb[Qs^[Z_YWK_¥aa]aXXXaaa_aa_]```a`^`__`
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CAGCGATAATCAAACCTTTGGTCAACATCATCTTTCTCAC
+HWI-EAS443:3:16:837:1565#0/1
UR_`b`_]_^``aab``bbVb¥bbb`b^[a_]¥aa_aZH`a
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+HWI-EAS443:3:16:841:1992#0/1
aba`aab_aaaa_``_a_aa`a_`^`_Y_^^]_U_WPJVW
@HWI-EAS443:3:16:850:1573#0/1
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+HWI-EAS443:3:16:850:1573#0/1
ab_babababbbbababaa^__`ba_a`a_a¥_¥¥^¥a^_
@HWI-EAS443:3:16:858:1469#0/1
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+HWI-EAS443:3:16:858:1469#0/1
aaaaa¥_aaa_a_a`____`aa]¥Ya_a`¥Wa]`^TR[]¥[
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@HWI-EAS443:3:17:1056:1335#0/1
CTTCCTGATGTGACTTTTTGATTATGGCCATATGGTCCA
+HWI-EAS443:3:17:1056:1335#0/1
ab`baaaaa`_b_aaaaaba]_`aa__a`_aXN]VW^`
@HWI-EAS443:3:17:1068:1143#0/1
ATGGTATTCTCACAAGAGGATTGCATGATCAAGGCAGTTA
+HWI-EAS443:3:17:1068:1143#0/1
aabaUabaa`a¥ab`a_aa^_aaaaaa__a_``]``GX]
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+HWI-EAS443:3:17:1069:1892#0/1
_^^ab`__ab^^`aaaababaabaaa__aa_]_PQXMPUZ
@HWI-EAS443:3:17:1093:1533#0/1
ACCCCGCACTCAGAATGAAGTGGATGATGGCAATGAGATA
+HWI-EAS443:3:17:1093:1533#0/1
aa]a_aa_a`a_a[_aaZU^SaX¥^`_¥^_^^]^__[Z[Z
@HWI-EAS443:3:17:1114:185#0/1
CTGAGAGATCTAATGTGCGAGTCCCGCACTCGCGAGATAC
+HWI-EAS443:3:17:1114:185#0/1
abaababbaaababbabbba`a`bXaaaaa^b`^¥
@HWI-EAS443:3:17:1115:1443#0/1
TCGTCATCAATGATGTGGGAGATCAATGGCCCTGAGTCAG
+HWI-EAS443:3:17:1115:1443#0/1
`b`_aaaZ_a`aP¥_Uaaaa¥_¥]a¥`Y_][][]^_U^]Z
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+HWI-EAS443:3:17:1128:640#0/1
abbaaabbaabaaa_aaa`aa`a`a`aaa¥¥a_a_a^``
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GTCCCGTTTTCGTTTTATTACCAACTACGTCCCTTGC
+HWI-EAS443:3:17:1189:1421#0/1
aaaa_b_abaab_ab_aaaa_a__aaaa___[WUZ_^Y^
@HWI-EAS443:3:17:1199:702#0/1
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+HWI-EAS443:3:17:1199:702#0/1
abaaa__aababaXa`aaa`a___`[_`^^__a^]a][a_
@HWI-EAS443:3:17:1212:693#0/1
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+HWI-EAS443:3:17:1212:693#0/1
aaaa_VVaZ`W][ZSQV^X]SVQ[_[XVYTP[Z[ZUW¥RM
@HWI-EAS443:3:17:1233:435#0/1
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+HWI-EAS443:3:17:1233:435#0/1
abbaa¥]S¥¥`aab_RaaaX`_`a_]`a¥a_a`aa`Z_^U
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+HWI-EAS443:3:17:1233:605#0/1
aaaa`¥a^aaa_a`aa]ba`b`_^]aa_]X^_YR___`X
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+HWI-EAS443:3:17:1241:1021#0/1
abba`b`ba`a`S_a_aa¥aa¥]¥a]aaa`[]`]a[`a
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GATCTAATGTCGCAGTCCCCGACTCGCGAGATACTCACTA
+HWI-EAS443:3:17:1291:971#0/1
aba^Y_]a`Z___a`[]^]W¥^X^[]^[]¥YNQ^ZPZ[
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CTCGCGAGATACTCACTAAGACCACTGTGGACCATATGGC
+HWI-EAS443:3:17:1294:254#0/1
^^`_aa^aaaa`aa__abaa`]`^aa^a¥]YYN_aY`_Y
@HWI-EAS443:3:17:1299:293#0/1
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+HWI-EAS443:3:17:1299:293#0/1
abaa¥aaaaaaaa`¥a`_aaV_a`a]_¥]`]^]]UU_
@HWI-EAS443:3:17:1370:535#0/1
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+HWI-EAS443:3:17:1370:535#0/1
a`_b_aa]a_aaaY^`_____ZFYZ_]`PW]^SV^]]WYY
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+HWI-EAS443:3:17:1374:58#0/1
^Y¥V`^a¥V`¥a_bORRY¥a]VT^V][WXYOS`_`LDH]J
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+HWI-EAS443:3:17:1387:49#0/1
aa_abXaba_b_aa^`_`__a^Ua_[_^]XXYYX^X^GY
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+HWI-EAS443:3:17:1409:893#0/1
Xab_aOW^`aaa[ZOZ^^]Z^XQOZZa]`^`^aa^^]^
@HWI-EAS443:3:17:1422:721#0/1
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+HWI-EAS443:3:17:1422:721#0/1
[[aa`¥]b`bbba`a`aaaaXT`QV`a_a[_V_VWS^][VY
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+HWI-EAS443:3:17:1435:1020#0/1
abbXbbabbaa`¥aa`a`a_aa`_`[a_aaa`ZU__`[^_
@HWI-EAS443:3:17:1442:263#0/1
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+HWI-EAS443:3:17:1442:263#0/1
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@HWI-EAS443:3:17:1484:769#0/1
TGAAGATCCAGATGAAGGCACATCTGGGGTGGAGTCTGCT
+HWI-EAS443:3:17:1484:769#0/1
a_R[T¥ba_X`]_]_0^`a`aXT`V^aaa`P`ZV_XZV`Z]
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+HWI-EAS443:3:17:1489:2012#0/1
^aab`_`bbabaabbb^`ba_a`^`b_aa_aa___a^`^^

+HWI-EAS443:3:17:1725:713#0/1
aba`_`a_aT¥_XaZa_R[Z]aY` ``_R_NZQLX__^] ^U
@HWI-EAS443:3:17:1726:1173#0/1
GTCCCGTTTTTCGTTTCATTACCAACTACTCGTCCCCTTGC
+HWI-EAS443:3:17:1726:1173#0/1
aZX]_bXV_a^a_]M]a[[M[YZWY`_^W^]ZVVVWXXP
@HWI-EAS443:3:17:1773:1802#0/1
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+HWI-EAS443:3:17:1773:1802#0/1
abbaY]_P`a_aaaa^_Ya_W_`]_]`a_^ZZ_`¥]__II
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+HWI-EAS443:3:17:183:652#0/1
a`aaaa`aa__`a_`_`¥`^ [¥¥[_`V_^V¥ZZ[^W¥¥¥
@HWI-EAS443:3:17:189:67#0/1
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+HWI-EAS443:3:17:189:67#0/1
aaa`a_`aaaaY`aaa__b`__`_____PPWU]_aW_WX
@HWI-EAS443:3:17:215:1176#0/1
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+HWI-EAS443:3:17:215:1176#0/1
aaaaaaaa^ab^a_a]aa`_`aa^`Y¥__Y___YUW_^
@HWI-EAS443:3:17:217:789#0/1
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+HWI-EAS443:3:17:217:789#0/1
aaaaaaaa¥aa]_^aaa`a`a`]_`_`_` [WZW]]___Y
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+HWI-EAS443:3:17:229:1858#0/1
a^`W¥`aZ¥^`]X]]SWa_aXRaaZTXaa____Za[T`____
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@HWI-EAS443:3:17:28:293#0/1
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+HWI-EAS443:3:17:28:293#0/1
Za[`VaZ¥^¥[^a`¥ZN^_YZaaaaaa]R__aa^SV^_
@HWI-EAS443:3:17:292:1351#0/1
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+HWI-EAS443:3:17:292:1351#0/1
ab`]a^a`b`_aaaZ`¥a^]Y]_`_] [QTX]U^¥] [^V
@HWI-EAS443:3:17:297:299#0/1
CCGTTTTCGTTTCATTACCAACTACTCGTCCCCTTGCCCA
+HWI-EAS443:3:17:297:299#0/1
abbaababb_ba`_aaaa]_a`aa`a_`¥^_^`_`Y^__
@HWI-EAS443:3:17:383:839#0/1
TGGCCATGGTATTCTCACAAGAGGATTGCATGATCAAGGC
+HWI-EAS443:3:17:383:839#0/1
abbbaz¥`¥[aaaa_aaaaa`a`_`_a^`_a^X`_]_

@HWI-EAS443:3:17:41:1060#0/1
GCGAGATACTCACTAAGACCACTGTGGACCATATGGCCAT
+HWI-EAS443:3:17:41:1060#0/1
aa_`a`[\`aaaaaaaa`aa^]\`^`Y]]a``a``___`U
@HWI-EAS443:3:17:452:143#0/1
CAGATGTGCCTTCATCTGGATCTTCAGTCAATGCACCTGC
+HWI-EAS443:3:17:452:143#0/1
_¥ZOX_S_]¥`_ba]Q_ba¥U^¥PXa`dWVbU`aa_]__bW
@HWI-EAS443:3:17:465:620#0/1
AAAGAAGTGAAGATCTAATGTGCGCAGTCCCGCACTCGCG
+HWI-EAS443:3:17:465:620#0/1
aa_``aaa`[\`aa_____a`_a]_V__`X__]^_N]Y_^Z_
@HWI-EAS443:3:17:472:1947#0/1
AAAAGAAGTGAAGATCTAATGTGCGCAGTCCCGCACTCGCG
+HWI-EAS443:3:17:472:1947#0/1
aa[aa`[\`¥a`a_____aa__R`ZY`SBBBBBBBBBBBB
@HWI-EAS443:3:17:487:665#0/1
AAGGATGCAGGTGCATTGACTGAAGATCCAGATGAAGGCA
+HWI-EAS443:3:17:487:665#0/1
aa`_]_]aaaa_Va_``^`a_aa_^^`¥__^`_¥a__¥_]_
@HWI-EAS443:3:17:48:1977#0/1
CTCGCGAGATACTCACTAAGACCACTGTGGACCATATGGC
+HWI-EAS443:3:17:48:1977#0/1
aa``aabba`b`_abaaaaa`a_a`]Y]]`a``_a]Y_]_
@HWI-EAS443:3:17:49:1960#0/1
GCCGTAGACATATGCAAGGCAGCAATAGGGTTGAGGATTA
+HWI-EAS443:3:17:49:1960#0/1
aa^`S_baX]]^`[b`a[W¥¥[aZ[\`_]RRYQXU_ULZVY]
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GTCTTAGTGAAGTATCTCGCGAGTGCAGGACTGCGACATTA
+HWI-EAS443:3:17:503:813#0/1
`abaaa`[aaa_aa`]^a_P]`X^Z`_ZM^_]¥_Y¥_
@HWI-EAS443:3:17:517:772#0/1
GAATGAAGTGGATGATGGCAATGAGATACCCAATTACAGC
+HWI-EAS443:3:17:517:772#0/1
ZLY^`¥``^a`Y``OV^a[]]aaQZ^__WOU]_YV_X_^[]
@HWI-EAS443:3:17:534:68#0/1
CATTATTCTCTGTCTGCTGTAATTGGGTATCTCATTGCC
+HWI-EAS443:3:17:534:68#0/1
_MaYZ_a^`]¥Ta_UWaRYa^Z^_____T[___[UY_S SZ]
@HWI-EAS443:3:17:577:1862#0/1
AAAGAAGTGAAGATCTAATGTGCGCAGTCCCGCACTCGCG
+HWI-EAS443:3:17:577:1862#0/1
^^^YP^`bW`Ibaa[HWZYX]T`¥`_[bHVZaXaGU_aX¥_
@HWI-EAS443:3:17:597:719#0/1
ATTGAATACTGGAGAATTGCCTCTTACCAGTATCCTCAAC
+HWI-EAS443:3:17:597:719#0/1
```a`aa`[abaJa\_a\_\_Za\_a```Y`\_^`[Z^a[S`\_aU  
@HWI-EAS443:3:17:610:99#0/1  
TGGGCCATTCTATTCCACCATGTTACGCCAGAGGTGAT

+HWI-EAS443:3:17:610:99#0/1  
`abaa`\_baaaba\_a`ba\_Taa`aaaa`ZaZ^^\_TZWZ  
@HWI-EAS443:3:17:614:95#0/1  
AAAGAACTGAGAGATCTAATGTCGCAGTCCCCTCGACTCGCG  
+HWI-EAS443:3:17:614:95#0/1  
aaaa``\_aaa`a`\_^`a`\_aU\_Y^\_\_U]]Z¥YYUXZ\_WV  
@HWI-EAS443:3:17:675:954#0/1  
TAATGTCGCAGTCCCCTCGACTCGCGAGATACTCACTAAGAC  
+HWI-EAS443:3:17:675:954#0/1  
[[^ab\_\_[\_]]abZ`^`]XX^X\_WM]WOV`R]JVSTXZY\_  
@HWI-EAS443:3:17:694:317#0/1  
CACTCGCGAGATACTCACTAAGACCACTGTGGACCATATG  
+HWI-EAS443:3:17:694:317#0/1  
abaabbbbaaaa`aaaa\_aaaaaaaaa\_\_` `` `¥^]`^a  
@HWI-EAS443:3:17:706:540#0/1  
GAGAGAATAAAGAACTGAGAGATCTAATGTCGCAGTCCC  
+HWI-EAS443:3:17:706:540#0/1  
aaa\_aaaa`a[aaa`¥aa\_a\_a` `a` [ `aa^`a\_\_`Y^^]  
@HWI-EAS443:3:17:706:779#0/1  
CTAATGTGCTAATTGGGCAAGGGGACGTAGTGTGGTAAT  
+HWI-EAS443:3:17:706:779#0/1  
a[I[^a\_[^\_¥\_\_Ya\_b^]Q\_a^V^Va]`a[aZa^WHUY]  
@HWI-EAS443:3:17:730:542#0/1  
CTAATGTCGCAGTCCCCTCGACTCGCGAGATACTCACTAAGA  
+HWI-EAS443:3:17:730:542#0/1  
abbbab]]M\_bb`aaa` `]a`aaaa`a^`^\_aa^^`aa^`  
@HWI-EAS443:3:17:747:270#0/1  
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+HWI-EAS443:3:17:747:270#0/1  
abaaaaaaaa\_\_` `a` [ ]\_Z^a]`a[ `S[\_]]\_][SY  
@HWI-EAS443:3:17:783:1703#0/1  
GGGACGTAGTGTGGTAATGAAACGAAACGGGACTCTA  
+HWI-EAS443:3:17:783:1703#0/1  
ab\_b[\_` ]I^P`VbabV`U\_a^bbX\_\_aaaT¥S^`^`X]  
@HWI-EAS443:3:17:811:1517#0/1  
CATATCTCTTGTCTTCTTTGCCAAAATGAGAAATCCTCT  
+HWI-EAS443:3:17:811:1517#0/1  
a\_aba` ]`b`a`\_¥aaVa`abba`aaaa`aaabaaaa]\_  
@HWI-EAS443:3:17:829:1029#0/1  
CAATCCCCAGTTCTGGAAAAGCACTTTTGCATCTTTTTG  
+HWI-EAS443:3:17:829:1029#0/1  
T`\_S[R`\_aXYZaN¥Z¥[b\_0¥^`QT^[T`G`^JZ^R`Z\_  
@HWI-EAS443:3:17:829:343#0/1  
CTCACTAAGACCACTGTGGACCATATGGCCATAATCAAAA  
+HWI-EAS443:3:17:829:343#0/1  
^[\_]abba`\_Y\_aTaab` `` `a[X]`¥^¥\_]]`\_a[Z` `  
@HWI-EAS443:3:17:866:896#0/1  
GTCCCCTTTTCGTTTCATTACCAACACTACGTCCCCTTGC  
+HWI-EAS443:3:17:866:896#0/1  
a\_aaab\_aaa`a^\_\_^¥^a` ]Y` \_[ `\_\_`^^V^UZ[]W]Z

@HWI-EAS443:3:17:884:1161#0/1  
GTGGGTTCACTTTCAAAGGACAAGCGGATCATCAGTCAA  
+HWI-EAS443:3:17:884:1161#0/1  
`G\_`^`a`aa`^^^U]`]^a[[^a`^¥[\_]^a]¥]X  
@HWI-EAS443:3:17:933:1121#0/1  
AGCACTTTTGCATCTTTTGGAAATGCCTCAAGAGTTGGT  
+HWI-EAS443:3:17:933:1121#0/1  
`WaXZaa`[`aWaZ\_[a\_a`\_a^Xa\_a\_a`\_`^a\_\_X\_\_]R  
@HWI-EAS443:3:17:97:1193#0/1  
CAAGGGAGCAATTTTACAATCCTGGAGCTCTTCTTTCTTC  
+HWI-EAS443:3:17:97:1193#0/1  
a)`^[\_]\_a`aY[a^`^\_`X[[¥[^[ZU^]^^YZ^^^[\_]^  
@HWI-EAS443:3:17:990:1425#0/1  
GTCCCCTTTTCGTTTCATTACCAACTACGTCCCCTTGC  
+HWI-EAS443:3:17:990:1425#0/1  
a]aaabababUa`baYaa`aa\_aa^a\_[aa`][\_]`X^]]  
@HWI-EAS443:3:18:100:1653#0/1  
CTTCATTTGGGAAAACAATTCATAATCACATCCTGTGC  
+HWI-EAS443:3:18:100:1653#0/1  
QYH\_\_[\_]¥[\_]¥W`\_¥`a`^YX`aa\_\_Zbb`^a^`]ZW\_\_  
@HWI-EAS443:3:18:1018:497#0/1  
ATGGACATGATTCCAGAGAGGAATGAACAAGGACAAACCC  
+HWI-EAS443:3:18:1018:497#0/1  
a`bbaXS`a`¥`\_a`a]b[a]\_`abZXG^aaa[\_^a\_ZG^  
@HWI-EAS443:3:18:1023:1360#0/1  
GTGGATGATGGCAATGAGATACCCAATTACAGCAGACAAG  
+HWI-EAS443:3:18:1023:1360#0/1  
`¥`a\_a]`^\_]`\_`^`\_a`^^¥\_\_`^^`\_]]]`^^]^^W  
@HWI-EAS443:3:18:1024:1994#0/1  
GAATAAAAGAAGACTGAGAGATCTAATGTCGCAGTCCCGCAC  
+HWI-EAS443:3:18:1024:1994#0/1  
Z¥bb¥bb¥¥`baa¥[I\_HXabbbaaa^`a`\_Y[aaYa``Q  
@HWI-EAS443:3:18:1037:1231#0/1  
AAAGAAGTGGAGATCTAATGTCGCAGTCCCGCACTCGCG  
+HWI-EAS443:3:18:1037:1231#0/1  
aaa`¥aaa`a`\_`a`]`\_`\_\_\_U^Y]^\_X^^UUWMMW¥XZYX  
@HWI-EAS443:3:18:1039:293#0/1  
ATTCTCTGTCTGCTGTAATTGGGTATCTCATTGCCATCA  
+HWI-EAS443:3:18:1039:293#0/1  
^`]b¥Y¥baZaaaaa^][`b]Y\_`P`][\_VWW`\_TX^X^`  
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ATCATTCTCACTTCTCCTCCTGGAGTGTACATCTGCTCC  
+HWI-EAS443:3:18:1073:501#0/1  
a`\_`\_aaba^abaaaaa\_ab`^¥`\_aaa[aa`\_`a`^^Z  
@HWI-EAS443:3:18:1093:1573#0/1  
GAATAAAAGAAGACTGAGAGATCTAATGTCGCAGTCCCGCAC  
+HWI-EAS443:3:18:1093:1573#0/1  
a`aaaaaaa`aaaa`aa`aaaa`\_\_\_a`Y\_`\_]`\_`^`  
@HWI-EAS443:3:18:1116:159#0/1  
TCCTGATGTGACTTTTTGATTATGGCCATATGGTCCACA



@HWI-EAS443:3:18:1264:483#0/1  
GAGAATAAAAGAACTGAGAGATCTAATGTCGCAGTCCCGC  
+HWI-EAS443:3:18:1264:483#0/1  
`ab`abaaabbababaaabaaa\_baaab\_aaa`a^^^`\_  
@HWI-EAS443:3:18:1284:948#0/1  
AAAAGAACTGAGAGATCTAATGTCGCAGTCCCGCACTCGC  
+HWI-EAS443:3:18:1284:948#0/1  
¥a`\_U\_babbbb`\_`a`bbaaba`\_`aa`\_aa^^WVZ`R  
@HWI-EAS443:3:18:1333:205#0/1  
AAAGAACTGAGAGATCTAATGTCGCAGTCCCGCACTCGCG  
+HWI-EAS443:3:18:1333:205#0/1  
^a]\_V\_aaaa\_aaaaYaa\_] ^VYYYYU]VX^NYVYNVX[  
@HWI-EAS443:3:18:1340:1371#0/1  
TTCTGAAGTGGACAGGGCCGAAGGTACCATGTTTCAACCT  
+HWI-EAS443:3:18:1340:1371#0/1  
aa]`X`aaS\_a^aY\_YN¥YS¥UYV^V]^YV[ZYN\_[RKX  
@HWI-EAS443:3:18:1348:948#0/1  
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+HWI-EAS443:3:18:1348:948#0/1  
a`bbaabbaaaaab`aaa`a^`^aaaa^S\_a\_\_X\_\_a¥  
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+HWI-EAS443:3:18:1366:1420#0/1  
a`S][¥KYH^[\_`¥QWaZNVNN\_] ^ZQY][NRYLNS\_RLU  
@HWI-EAS443:3:18:1404:916#0/1  
GTTTTCGTTTCATTACCAACTACGTCCCCTTGCCCAAT  
+HWI-EAS443:3:18:1404:916#0/1  
``aaa¥`^X^aa`baZ\_a`\_`aa\_\_a^^\_]¥`\_`WYW]\_¥  
@HWI-EAS443:3:18:1411:1793#0/1  
CCCGTTTTCGTTTCATTACCAACTACGTCCCCTTGCCC  
+HWI-EAS443:3:18:1411:1793#0/1  
a`ab`aba`b[aabbaaaa¥abaaa`b`a]^`\_\_\_\_\_U\_]`  
@HWI-EAS443:3:18:1424:269#0/1  
GAAGGGTATGAAGAATTCACAATGGTTGGGAGAAGAGCAA  
+HWI-EAS443:3:18:1424:269#0/1  
`a`bba^baY`abb`ab\_a\_a`¥a`¥aa¥`X\_\_U`]aW^W  
@HWI-EAS443:3:18:1434:1586#0/1  
GGGCAAGGGGACGTAGTGTGGTAATGAAACGAAAACGGG  
+HWI-EAS443:3:18:1434:1586#0/1  
V\_`bb`bbWZ^`a`Yb`ba¥XXaZ^^b]X`[]ab\_\_a`  
@HWI-EAS443:3:18:1437:1132#0/1  
CAAGAGAATAATGGACATGATTCCAGAGAGGAATGAACAA  
+HWI-EAS443:3:18:1437:1132#0/1  
abb\_^]\_aabVP\_`bYa^a`aZV\_\_^P\_Zaa\_\_a¥^ZZ\_^  
@HWI-EAS443:3:18:1510:1843#0/1  
TCCCGTTTTCGTTTCATTACCAACTACGTCCCCTTGCC  
+HWI-EAS443:3:18:1510:1843#0/1  
aa\_`a\_aaa]\_Y\_a^`\_`^^`aZaV\_\_^^W[Z^¥^ZRZZ  
@HWI-EAS443:3:18:1521:1053#0/1  
CTGTAATTGGGTATCTCATTGCCATCATCCACTTCATTCT

+HWI-EAS443:3:18:1521:1053#0/1  
¥a`aa\_bb``aabaabbabbabZaaabba]b\_ba^aaa`a  
@HWI-EAS443:3:18:1527:1127#0/1  
AAAGAAGTCTAATGTCGAGTCCCGCACTCGCG  
+HWI-EAS443:3:18:1527:1127#0/1  
aaab^a\_ba`a`\_]\_aZa`aa^]\_^`a¥]]Z^ZUY]VR^]  
@HWI-EAS443:3:18:1529:290#0/1  
ATGTCGAGTCCCGCACTCGCGAGATACTACTAAGACCA  
+HWI-EAS443:3:18:1529:290#0/1  
]¥YHZ¥`\_XS0^R^`UZ`X`WZUZUV¥YRRX¥T¥GT¥V  
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ATGTCGAGTCCCGCACTCGCGAGATACTACTAAGACCA  
+HWI-EAS443:3:18:152:823#0/1  
aaa`^a`]][^aY^0[¥`R]¥¥Y[[^Y^¥`\_][Y`^^^][¥  
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+HWI-EAS443:3:18:1532:379#0/1  
aaaa````\_aab^aa`]]`a\_abXZa[`[YZ\_\_][RUNZU[W  
@HWI-EAS443:3:18:1592:758#0/1  
CCGCACTCGCGAGATACTACTAAGACCACTGTGGACCAT  
+HWI-EAS443:3:18:1592:758#0/1  
abbbbbbbbabaaaa\_\_aaaXaa``\_\_a\_aaNa\_\_¥Y\_\_  
@HWI-EAS443:3:18:1649:550#0/1  
GAATAAAGAAGTCTAATGTCGAGTCCCGCAC  
+HWI-EAS443:3:18:1649:550#0/1  
\_T¥aY]¥^`R\_Y]aaYab\_]GZ```[`SP[]¥YKDHQVWU  
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TATAAACACTGCCTGTTCCGCCGCTACTGGGAGAAACCT  
+HWI-EAS443:3:18:1664:1055#0/1  
`b`¥\_\_\_^`a]¥`\_¥\_aa[`[aa^]WOYX[U]]][BBBBB  
@HWI-EAS443:3:18:1687:1382#0/1  
AGTGAGTATTGACCGATTTTTAAGGGTTAGAGATCAAAGA  
+HWI-EAS443:3:18:1687:1382#0/1  
[¥[`UV`\_a\_[YV[¥W^`a\_XXS]]]V¥U\_\_``]QH``bX  
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AAAAGAAGTCTAATGTCGAGTCCCGCACTCGCG  
+HWI-EAS443:3:18:1697:753#0/1  
`babaaa`aba`````\_aa`aa^[a\_\_\_^]V]X^^]]]\_V  
@HWI-EAS443:3:18:1733:250#0/1  
CCGCACTCAGAATGAAGTGGATGATGGCAATGAGATACCC  
+HWI-EAS443:3:18:1733:250#0/1  
W\_]bbbZb`bb\_bbaUa`bb¥abXaaa¥^abaa\_YG^^[P  
@HWI-EAS443:3:18:1753:322#0/1  
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+HWI-EAS443:3:18:1753:322#0/1  
aaa`aa][`U``\_YQ]a]\_^aZ\_\_^S¥]\_\_][WSU\_^^\_]`  
@HWI-EAS443:3:18:175:1365#0/1  
AGGCATTTCCAAAAGATGCAAAAAGTGTCTTTTCCAGAACT  
+HWI-EAS443:3:18:175:1365#0/1  
a`\_aa`\_`a\_a`\_a\_\_^]\_^`^^`\_]`Z\_^\_]\_\_`[\_`\_]`



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^X` [a^`a` ]]b\_¥\_KS\_bXbaa`a^YZa`^X`a[]YRS  
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CAACATCATCATTTCTCACTTCTCCTCCTGGAGTGTACAT  
+HWI-EAS443:3:18:198:2031#0/1  
U^[aa^a`T\_¥S\_Z^^`\_[XY]b\_ZWaaa`a¥]H]Wba\_Z  
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CAGTGGTCTTAGTGAGTATCTCGCGAGTGCGGGACTGCGA  
+HWI-EAS443:3:18:206:122#0/1  
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GTCGCAGTCCCGCACTCGCGAGATACTCACTAAGACCACT  
+HWI-EAS443:3:18:249:942#0/1  
aT^`^^[LY[YY^V`P[^¥[PPTQVUU[VUV^¥USSVVWT  
@HWI-EAS443:3:18:26:726#0/1  
GACATTTGACACTGTCCAAATAATAAACTTCTCCCCTTT  
+HWI-EAS443:3:18:26:726#0/1  
a¥[\_]^a][Z]^`]XY[^\_¥¥[]U[NZ\_¥[]T\_¥\_] [U^  
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ATGCAATCCTCTTGTGAGAATACCATGGCCACAATTATTG  
+HWI-EAS443:3:18:288:1160#0/1  
```aaa``\_a\_\_\_\_]^]aX^^a\_\_`^YFS\_\_^]`]W\_^^^  
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+HWI-EAS443:3:18:303:41#0/1
abbb_aababaaa[aaaa^aa¥aaa_aa]____U^_Y_^
@HWI-EAS443:3:18:303:859#0/1
AGGGGACGTAGTGTGGTAATGAAACGAAAACGGGACTCT
+HWI-EAS443:3:18:303:859#0/1
_aaaaabb¥Z]^a_abaSL^¥TX`a__ZX``Z__^SFSX^
@HWI-EAS443:3:18:321:1799#0/1
CTGCCTTGCATATGTCTACGGCTTGTTCCTCAGTTGGATT
+HWI-EAS443:3:18:321:1799#0/1
aY]aa_a`a_a`_¥^a^`_`_]`_WDKOLVVVVQSXFRBBB
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GTCCCCTTTTCGTTTTATTACCAACTACGTCCCCTTGC
+HWI-EAS443:3:18:324:262#0/1
a_aaa_N]^`aab^aaaaaa`a`a__`aa__]V[_]_]V]_
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+HWI-EAS443:3:18:328:967#0/1
TTba_a`_aa^_]_bbbbaaa_^baa_a]baaaa]aa[a`
@HWI-EAS443:3:18:347:1399#0/1
ATCTGGGGTGGAGTCTGCTGCTCCTGAGAGATTCTCATT
+HWI-EAS443:3:18:347:1399#0/1
aabbaaXQZ_XY[U_`_POLYa^_¥`a`_]_]_a^_¥`__^
@HWI-EAS443:3:18:355:294#0/1
TGTCGCAGTCCCGCACTCGCGAGATACTCACTAAGACCAC

+HWI-EAS443:3:18:355:294#0/1
__`aaa^¥aaaa`a[Y¥a__]V_[[¥_Z`¥^]`^`¥YG¥^¥
@HWI-EAS443:3:18:396:1004#0/1
GGAGAGACGAGCAGTCAATTGCTGAGGCAATAATTGTGGC
+HWI-EAS443:3:18:396:1004#0/1
aaa]`^a¥`a_a_aZVU_Y`__Y[_a_]_a__QQVRUY
@HWI-EAS443:3:18:438:649#0/1
GAATAAAAGAAGTCTGAGAGATCTAATGTCGCAGTCCCGCAC
+HWI-EAS443:3:18:438:649#0/1
a_M`]aaab^]a]V¥]`^]a^``__aV`````U[^U`PU¥
@HWI-EAS443:3:18:449:220#0/1
CCACTGTGGACCATATGGCCATAATCAAAAAGTACACATC
+HWI-EAS443:3:18:449:220#0/1
a```^]W```_`a__a`__^^YRZTQ_]__[_U]X]]WXV
@HWI-EAS443:3:18:527:201#0/1
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+HWI-EAS443:3:18:527:201#0/1
aaaaaaaaabb_aaaaaaa]_a_aaR`]_^_]¥]Y]X^
@HWI-EAS443:3:18:536:1594#0/1
GCCGGCTACTGGGAGAAACCTTGTTCACGGACCAATTCT
+HWI-EAS443:3:18:536:1594#0/1
abb^ba`bY`S^`]a_aa`___`Q`a`_]a`[T[_`]]`_`
@HWI-EAS443:3:18:573:875#0/1
GGATTTCTCATTGTTGGGCAAAGAAGACAAGAGATATGGCC
+HWI-EAS443:3:18:573:875#0/1
`b_Ya`aa`a`_aaa`aa^aaa`V¥_`aWq^`_Xa^^^
@HWI-EAS443:3:18:576:1619#0/1
GGGTTCTGCTCGCTGGTTGCCCTATTGACAAAGTTCAGAT
+HWI-EAS443:3:18:576:1619#0/1
a]^M^baa¥aQ`aa^Za^_aaZ`VY¥]aXaG_^_Z_]`
@HWI-EAS443:3:18:593:575#0/1
CTGTAATTGGGTATCTCATTGCCATCATCCACTTCATTCT
+HWI-EAS443:3:18:593:575#0/1
aaaVS_Y_[X`]`]^]^[^]__`¥ZZ__a]^^^U[_VVY
@HWI-EAS443:3:18:670:423#0/1
CTTCTTTCTTGACTGATGATCCGCTTGTCTTTTAAAAGT
+HWI-EAS443:3:18:670:423#0/1
abbbbbbbbababbbbb`aabababaa`abbbbaaa]
@HWI-EAS443:3:18:718:352#0/1
CGTTTTCGTTTCATTACCAACTACTGCCCTTGCCCAA
+HWI-EAS443:3:18:718:352#0/1
`b`aba^b_aaaabaa`a`aU__^aZ`^XZ^^YV_UQT[`
@HWI-EAS443:3:18:72:1122#0/1
TGTCTGCTGTAATTGGGTATCTCATTGCCATCATCCACTT
+HWI-EAS443:3:18:72:1122#0/1
aaa`]baab^W[a`aa_a```aaa`aaa_`^a]Z¥`_
@HWI-EAS443:3:18:74:1946#0/1
ATGGAGAGAATAAAAGAAGTCTGAGAGATCTAATGTCGCAGT
+HWI-EAS443:3:18:74:1946#0/1
]VZYU¥XZ_Y^_Z¥¥]aa`Z]¥`a`Y`Y`]`OWYDY___[U

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+HWI-EAS443:3:18:755:1619#0/1
aa_aaaa`T[_Za[W]a_[[_¥^`RZP[¥_¥T[Z^¥Q
@HWI-EAS443:3:18:766:712#0/1
GGAAAATTGCATCCTACTCTGTTCTGGTGGAGCAGCAGCA
+HWI-EAS443:3:18:766:712#0/1
_U`aUS^]¥[^__`[____]`^U`)]XS_]^[^]]W[VW_US
@HWI-EAS443:3:18:814:92#0/1
CTCCCCAAGAAGTCAGTGAAACGCAAGGAAGTGAAGAAGTT
+HWI-EAS443:3:18:814:92#0/1
aababb`aba`a^a`baa_a`^a`_ba]^Zaa_a`_aW_
@HWI-EAS443:3:18:814:966#0/1
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+HWI-EAS443:3:18:814:966#0/1
aaaaaaaaaaaa¥][ZR^_a`_¥MZ_a_]WZZ^YW¥]V]S
@HWI-EAS443:3:18:81:1784#0/1
AAAAGAAGTGAAGATCTAATGTCGCAGTCCCGCACTCGC
+HWI-EAS443:3:18:81:1784#0/1
abaaY`aaa_a_a¥]aaa__`_]`_a`_Y`Y_]`_`ZVZV
@HWI-EAS443:3:18:822:347#0/1
TCGCGAGATACTCACTAAGACCACTGTGGACCATATGGCC
+HWI-EAS443:3:18:822:347#0/1
ab`baa`_a_aa_a`aaaa`_V``]^_`^a^]_`_`_¥
@HWI-EAS443:3:18:833:1406#0/1
GGAGGTTGCCGTTAGCACTTCTTCTTCTTCTTCTGACTGA
+HWI-EAS443:3:18:833:1406#0/1
aaa_[R^X]ab^Z^YU_VX__`^a`^[^a`[_^Z_¥_Z_
@HWI-EAS443:3:18:840:789#0/1
AAAGAAGTGAAGATCTAATGTCGCAGTCCCGCACTCGCG
+HWI-EAS443:3:18:840:789#0/1
aZ_XNO[_^`_]^[`_`_`[¥X[¥_[R¥`XR[¥N[UW^WW
@HWI-EAS443:3:18:868:816#0/1
GGAATAGGAATGGCCCAACAACAAGTACAGTTCATTACCC
+HWI-EAS443:3:18:868:816#0/1
X_V¥ab_Z_bY^`YQS]I¥W]^V`V^UF_PT¥aaWI¥[JS
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+HWI-EAS443:3:18:869:218#0/1
`aaababbbbaabaaaabaa``aaaaaaaaaaa]a^_``^
@HWI-EAS443:3:18:944:1299#0/1
ATTTTACAATCCTGGAGCTCTTCTTCTTCTTCTTGTTA
+HWI-EAS443:3:18:944:1299#0/1
abaaababaa``^`_Xa^a^]aZ``a^`^^`__`_`_`^]a
@HWI-EAS443:3:18:944:1811#0/1
TGCTGTAATTGGGTATCTCATTGCCATCATCCACTTCATT
+HWI-EAS443:3:18:944:1811#0/1
aa`^b_aa^b[a`^b_F_XaX_`]¥a^WaSZ]a_`¥`_`^_
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+HWI-EAS443:3:18:948:46#0/1
abababbababbaaaaaaaaab_aaaa`a_``aa_`¥Y__
@HWI-EAS443:3:18:968:222#0/1
CAAGGGACGTGCTGGGAGCAGATGTACACTCCAGGAGGAG
+HWI-EAS443:3:18:968:222#0/1
``UaZaS^bZba_baaW_[V__WUW¥¥V^NNUMaBBBBBB
@HWI-EAS443:3:18:994:429#0/1
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+HWI-EAS443:3:18:994:429#0/1
aaa_a`aaaaab`a``aaaa^`a_`a^`aa_aU`^``¥_`^
@HWI-EAS443:3:19:1032:933#0/1
AAAAGAAGTGGAGATCTAATGTCGCAGTCCCGCACTCGC
+HWI-EAS443:3:19:1032:933#0/1
^bbbaa`_baaababaaaaaaa]`_``^¥_a_aR____¥
@HWI-EAS443:3:19:1059:727#0/1
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+HWI-EAS443:3:19:1059:727#0/1
aa^]b_``aaa__aaaa]`_^`^`¥`¥_[Z`¥¥[____`]^
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+HWI-EAS443:3:19:1062:787#0/1
____]Y]¥[a[FWU_XUbXX^aRN[a][Z]Y[¥Y_[¥¥FLL
@HWI-EAS443:3:19:1072:874#0/1
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+HWI-EAS443:3:19:1072:874#0/1
aa``[bba_`aaaa]ba`^aaaa_`aa^``aaa_a_aH_Y
@HWI-EAS443:3:19:1076:130#0/1
GGCACATCTGGGGTGGAGTCTGCTGTCCTGAGAGGATTTC
+HWI-EAS443:3:19:1076:130#0/1
`baaa``aa`aa]Naa^aS¥_`^`^aU^Z_aR_¥a`X¥`[W
@HWI-EAS443:3:19:112:1618#0/1
GTACTTTTTGATTATGGCCATATGGTCCACAGTGGTCTTA
+HWI-EAS443:3:19:112:1618#0/1
a]a`a_``_¥aa^[MJJ]]PX]XP_R``[[[]SLXMRW¥Z¥
@HWI-EAS443:3:19:1138:279#0/1
GCTGTCCTGAGAGGATTTCTCATTGTTGGCAAAGAAGACA
+HWI-EAS443:3:19:1138:279#0/1
a`ab`__aa_a_aa^__`^`__`a_a_``_]`_`^`_]`_`^Y^
@HWI-EAS443:3:19:1150:457#0/1
GCAGACAAGAGAATAATGGACATGATTCCAGAGAGGAATG
+HWI-EAS443:3:19:1150:457#0/1
]a`ba_b`bbaababbabaa^bbabaa^aXbaa_`a_a_a
@HWI-EAS443:3:19:1163:936#0/1
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+HWI-EAS443:3:19:1163:936#0/1
a__`Z_b`ab_b]a_`^abY_N^a`a_abYaab][aab_`
@HWI-EAS443:3:19:1201:1430#0/1
AAAGAAGTGGAGATCTAATGTCGCAGTCCCGCACTCGCG
+HWI-EAS443:3:19:1201:1430#0/1
aaba`aaaaaaa_a`]aa``a^`^`_`T__]_[U[]¥_]]

@HWI-EAS443:3:19:1215:1465#0/1
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+HWI-EAS443:3:19:1215:1465#0/1
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@HWI-EAS443:3:19:1227:2019#0/1
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+HWI-EAS443:3:19:1227:2019#0/1
`a^^Y]TZ^^W^^_¥H]ab``ZU^a_WZa_¥^`Y_ZR_^W
@HWI-EAS443:3:19:1244:1998#0/1
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+HWI-EAS443:3:19:1244:1998#0/1
a¥`aab`aX[¥aaa^SX[`SN¥ZZP^TQJN¥Q^U]NV_B
@HWI-EAS443:3:19:1265:1741#0/1
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+HWI-EAS443:3:19:1265:1741#0/1
aaba`bbba`baaa`aab^aaaa`aaa`_aa^a__^^`
@HWI-EAS443:3:19:1275:1478#0/1
GTCCCGTTTTCGTTTCATTACCAACTACTGCCCTTGC
+HWI-EAS443:3:19:1275:1478#0/1
^JX^P¥_]¥aaaQba`abaaaY`aR_a_a^a_Ya^a_0_S
@HWI-EAS443:3:19:1297:312#0/1
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+HWI-EAS443:3:19:1297:312#0/1
_Y`a¥¥bbabbbbaaabab^^a`aabbaa_a^`aa[a]a
@HWI-EAS443:3:19:1305:816#0/1
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+HWI-EAS443:3:19:1305:816#0/1
aaaaaaaa`_a_aaU[aZ^¥UXZ[_^^Z`WZ¥¥Z[^V¥¥^
@HWI-EAS443:3:19:1317:752#0/1
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+HWI-EAS443:3:19:1317:752#0/1
[[NX[___^WR^_Z___¥XY^¥V¥_O]]X¥a¥[]WW[_][H^
@HWI-EAS443:3:19:1331:419#0/1
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+HWI-EAS443:3:19:1331:419#0/1
aaa`abbabaabaaa`baa_baaa¥]_a`_a`aa`ZW¥__
@HWI-EAS443:3:19:1435:1025#0/1
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+HWI-EAS443:3:19:1435:1025#0/1
``aa`_a_aaaba_^a`__]Z¥¥YQNNUZUR_W^QWQNB
@HWI-EAS443:3:19:1513:1149#0/1
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+HWI-EAS443:3:19:1513:1149#0/1
abbbbaaaaaabb__^`a`a^a_[`a_aVQXT`^_Ua_S_B
@HWI-EAS443:3:19:1554:720#0/1
AAAAGGACAAGCGGATCATCAGTCAAGAAAGAAGAAG
+HWI-EAS443:3:19:1554:720#0/1
U^¥]¥VI`SV¥_ba]^`_^Y_^`a^Z^)``aZ]b^ORZ¥]
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CAACAAGGCAACCAAACGACTTACAGTTCTTGAAAGGAT

+HWI-EAS443:3:19:1584:298#0/1
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@HWI-EAS443:3:19:1595:567#0/1
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+HWI-EAS443:3:19:1595:567#0/1
a`bbaba`b]b`b^aU¥`aY`aa_`^^`Y`____[_]SZ
@HWI-EAS443:3:19:159:1304#0/1
GGGGACGTAGTGTGGTAATGAAACGAAAACGGGACTCTA
+HWI-EAS443:3:19:159:1304#0/1
`a`_aba_a```X`[aI_a^_baW^^aaa_^aY¥]]_^W
@HWI-EAS443:3:19:1645:628#0/1
CTTTGCTGCTGCTCCACCAGAACAGAGTAGGATGCAATTT
+HWI-EAS443:3:19:1645:628#0/1
abbbbabbbaba`bbbb`abbab_ababab]baabTbabbb
@HWI-EAS443:3:19:1647:1511#0/1
TGGGTATCTCATTGCCATCATCCACTTCATTCTGAGTGCG
+HWI-EAS443:3:19:1647:1511#0/1
aaa`Ua^^a`aa[a^Y^^[_`X_a^_a]_`a[`[VXW`V[
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+HWI-EAS443:3:19:164:1263#0/1
a__baaba`baaba`¥]a^`ab`]a`Y_```¥`a___aaa
@HWI-EAS443:3:19:1689:1823#0/1
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+HWI-EAS443:3:19:1689:1823#0/1
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@HWI-EAS443:3:19:173:103#0/1
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+HWI-EAS443:3:19:173:103#0/1
aaaaaa_aZ^^a`^^¥`^^Y_¥[V[[[[VWWWVV¥WYYU
@HWI-EAS443:3:19:1740:346#0/1
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+HWI-EAS443:3:19:1740:346#0/1
aaabZ¥^aba]aa^`^aaaab]a^Y`a_^ZW[V_]`^]`^V^
@HWI-EAS443:3:19:1765:1244#0/1
GCTGTCTGAGAGATTTCTCATTGTTGGGCAAAGAAGACA
+HWI-EAS443:3:19:1765:1244#0/1
a`aa_aa`_b`a__a`__^]aa`a_`^^`_]a_^_`^V_
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+HWI-EAS443:3:19:1772:179#0/1
]b^¥Z]P^_bb`b_HYb`aabTN`M`b¥X¥N_^TLXQ]N_
@HWI-EAS443:3:19:195:1738#0/1
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+HWI-EAS443:3:19:195:1738#0/1
`a_VaT^_[WUX]_U]ba^_bbb¥bbbbbb`a```^GX`_a
@HWI-EAS443:3:19:21:387#0/1
AAAGAAGTGGAGATCTAATGTCGCAGTCCCGCACTCGCG
+HWI-EAS443:3:19:21:387#0/1
aa`aaaaaaa`aaaa`aa`ab^aaaaa[[[]`aY`^]]]_

@HWI-EAS443:3:19:293:689#0/1
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+HWI-EAS443:3:19:293:689#0/1
aZ_^W_YZ`aaa`a`R]__]\`a___a__a`X]__a^^[ZT
@HWI-EAS443:3:19:294:962#0/1
GGGGACGTAGTGTGGTAATGAAACGAAAACGGGACTCTA
+HWI-EAS443:3:19:294:962#0/1
aaa]U_aZ[a[a^aa_V__`_`aaQ___`a[^_^Y^^]_
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GTTTGTATCAACTCTCCTCCTTATTTTAACTTGATTTCTG
+HWI-EAS443:3:19:313:455#0/1
S`V¥`]F¥Waa^HOU]S`_WOXLLV`YWX`^XMTXRYW
@HWI-EAS443:3:19:334:2006#0/1
AAAAGAAGCTGAGAGATCTAATGTCGCAGTCCCGCACTCGC
+HWI-EAS443:3:19:334:2006#0/1
aaaa[_`_`_`^a___]aa```ZW_T```Y^__¥Z¥Y[TW
@HWI-EAS443:3:19:348:1559#0/1
ATAAAAAGAACTGAGAGATCTAATGTCGCAGTCCCGCACTC
+HWI-EAS443:3:19:348:1559#0/1
^_b`WYRZ_ZPW`[^aZb`]b]a^`U`]IX[_R_`[RGO
@HWI-EAS443:3:19:356:1249#0/1
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+HWI-EAS443:3:19:356:1249#0/1
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+HWI-EAS443:3:19:357:1308#0/1
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+HWI-EAS443:3:19:371:1440#0/1
aaaa``][aab¥aaaa_aaa`Q[_`_a`a`WU__`_`¥^_
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GAATGTGAGAGGATCAGGGTTGAGGATACTGGTAAGAGGC
+HWI-EAS443:3:19:379:697#0/1
a_aaa^b_aZa`a`_`aaaSa`^a_____Xa_aa`¥^^][
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+HWI-EAS443:3:19:380:914#0/1
a_¥U_^[Y`Y_S^]XRJWUQXVS[[^ZH]JY^^UJJGWYB
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ACATTGTGGGATCTTGTGACCATTGAATTTTCACAATTTTC
+HWI-EAS443:3:19:390:79#0/1
aaaaa`^aa`_a¥`Xa[_`_^_____a_S_a``^^_^]_XW[
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+HWI-EAS443:3:19:391:1221#0/1
aba`abbbba`bbbbbbbabbbabbbbaabaaabbaaa
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+HWI-EAS443:3:19:400:1367#0/1
a`a`XY¥[`aa``[[_Y``__a_S[T____^]X[^^^
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+HWI-EAS443:3:19:433:547#0/1
a`aaa`_¥a_^a`WW]a^U^P[[J^JX_P]a]¥T` [TDX
@HWI-EAS443:3:19:443:252#0/1
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+HWI-EAS443:3:19:443:252#0/1
a_aaa_a`a¥`_aaX^¥__U__^]_R^^^_X_]X]]YY^U
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ATTCCAGAGAGGAATGAACAAGGACAAACCCTCTGGAGCA
+HWI-EAS443:3:19:473:101#0/1
aba¥T_a^aXab]`_aaa`_aa_¥_a]_UVZ^__`_0_V]
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+HWI-EAS443:3:19:485:610#0/1
`P_]` `TR`¥`¥` [YUZ^^[^WX[XR¥NXZXTTRWBBBB
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+HWI-EAS443:3:19:502:68#0/1
aab^^Ybbbabbbaba_bba`baUa_a^bb`^aa]U^a`a
@HWI-EAS443:3:19:513:1367#0/1
CGCACTCGCGAGATACTACTAAGACCACTGTGGACCATA
+HWI-EAS443:3:19:513:1367#0/1
aa`^aabaaaa`_aa`aaa`aa^aaaa_]`Za`a¥]`
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GCTGTAATTGGGTATCTCATTGCCATCATCCACTTCATTC
+HWI-EAS443:3:19:517:1697#0/1
aaa`_b`^aa^a0`]a_a`¥a_aa`^aa¥_]` `____^_^
@HWI-EAS443:3:19:539:1555#0/1
CTATTGACAAAGTTCAGATCGCCCCTAACTGCCTTGATCA
+HWI-EAS443:3:19:539:1555#0/1
a^J_]`¥¥a^a[_ZZ_a_]__^U¥]U]`X` [[FR`XZLL]
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+HWI-EAS443:3:19:540:638#0/1
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@HWI-EAS443:3:19:616:1729#0/1
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+HWI-EAS443:3:19:616:1729#0/1
`Uba¥]^aY`a[a_a¥`^aaaa^a¥`a`¥`^a¥`]_UYW_
@HWI-EAS443:3:19:619:557#0/1
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+HWI-EAS443:3:19:619:557#0/1
abbbababbabbaaaaba`aaa`aa_a__aaa_a``_]`_`
@HWI-EAS443:3:19:61:1506#0/1
GAACTGTACTTGTGTTGGCCATTCTTCCACCATGT
+HWI-EAS443:3:19:61:1506#0/1
aba`V]`baaaaba`^aYa]aaaaaaaa]a_aaaa_

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+HWI-EAS443:3:19:628:768#0/1
aa^aaaaaaaa_aaa]¥a__`^a`^`_a_¥```¥`^¥`_`
@HWI-EAS443:3:19:630:1146#0/1
AAGGCAACCAAACGACTTACAGTTCTTGGAAAGGATGCAG
+HWI-EAS443:3:19:630:1146#0/1
aa¥U_bb`)]`b`^aa`a`a`a_a`a`a`X`aa¥¥a_[a
@HWI-EAS443:3:19:640:157#0/1
TACGCCACCATCAAGGGAGCAATTTTACAATCCTGGAGCT
+HWI-EAS443:3:19:640:157#0/1
a¥_U][`Y`]Uaa`)]L][¥`_`a`a[aa_¥`U_]W^]`
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+HWI-EAS443:3:19:663:1231#0/1
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ATCAAGGGAGCAATTTTACAATCCTGGAGCTCTTCTTCT
+HWI-EAS443:3:19:677:557#0/1
^ba]^`a^Tba_]_]`Uaaa^^¥][a`T¥Z^^^[[a^`R^
@HWI-EAS443:3:19:711:1155#0/1
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+HWI-EAS443:3:19:711:1155#0/1
aZQW]^a[aaa`_]_]a`aaa]_a]a`¥`_ZQZ]_X][`]
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+HWI-EAS443:3:19:775:1035#0/1
a`baa^^aa`aa^aa_aa`_aa`_¥¥a`_ZY¥Z`TV¥Y¥¥
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+HWI-EAS443:3:19:800:154#0/1
ab^_`Z^]`^FWV`_`_PX`_`La`LQVZP`TLRN_XEXF][^
@HWI-EAS443:3:19:80:1310#0/1
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+HWI-EAS443:3:19:80:1310#0/1
aaWW[¥WTL[T¥a_]_]`^Q_a`]TZaUZ^`[_]]`[X[H_X
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+HWI-EAS443:3:19:848:569#0/1
_a`abbb¥^ba^a¥^b_W_b]`bb¥b`a_b_aba_aa`a^
@HWI-EAS443:3:19:857:368#0/1
CATCAAGGGAGCAATTTTACAATCCTGGAGCTCTTCTTTC
+HWI-EAS443:3:19:857:368#0/1
aaabbaab_aaabababbbbaaaa`aa`^`aXaW`_`_`a¥^
@HWI-EAS443:3:19:869:1529#0/1
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+HWI-EAS443:3:19:869:1529#0/1
aaaa`aaaV`Z^`_Q[`¥¥`¥`_¥¥`^¥^W¥UWXRTQV¥¥
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+HWI-EAS443:3:19:875:1133#0/1
aaabUaaa_aaabaaaaa`_aaa¥_aa`a_^`a]]_`^`_
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AGAGAATAAAAGAACTGAGAGATCTAATGTCGCAGTCCCCG
+HWI-EAS443:3:19:879:790#0/1
aaabaaa_b`ab_a`baa[aaa`_`^aab]___aa]¥_¥_
@HWI-EAS443:3:19:897:1832#0/1
CCCCTTTTTCGTTTCATTACCAACACTACGTCCCCCTTGCCC
+HWI-EAS443:3:19:897:1832#0/1
aaaa_aaaaa]aa`aa_a^¥aa`_`_`]]]_X^_Z^^]
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ATGCCCATATGGTCCACAGTGGTCTTAGTGAGTATCTCGC
+HWI-EAS443:3:19:897:517#0/1
`^bbabb`aa^_¥]a_a[UYa`a`_J_`^]aa^¥XX_ZUU
@HWI-EAS443:3:19:897:990#0/1
CGTTTTTCGTTTCATTACCAACACTACGTCCCCCTTGCCCCA
+HWI-EAS443:3:19:897:990#0/1
abaaaaab^aaabaaaa_aaaaaa_a`^`^_W]^`^`_
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+HWI-EAS443:3:19:910:1393#0/1
`U_RV¥0a¥_¥Z`_S_a`aaa[¥X^SXNV`]`[_`^Z_N_
@HWI-EAS443:3:19:924:1035#0/1
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+HWI-EAS443:3:19:924:1035#0/1
a`aa`a`a`a`_`_`_`_a`_`^aa`_`]^`_¥_`^X]^`^Y]VY
@HWI-EAS443:3:19:928:1104#0/1
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+HWI-EAS443:3:19:928:1104#0/1
aaaa_aaba_a`aRa`_a_aa_____aU`^^_`^Z`^^^^`
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+HWI-EAS443:3:19:939:1598#0/1
`]aba¥aa^aa[``a_a`a`a]aa^_]T`[_`_W^a^Q_¥
@HWI-EAS443:3:19:941:976#0/1
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+HWI-EAS443:3:19:941:976#0/1
a`a]UQZWaaaa`_`^`_`aa_aaZ]^`[^a¥¥^^]¥R¥¥_WW
@HWI-EAS443:3:19:966:1264#0/1
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+HWI-EAS443:3:19:966:1264#0/1
`]_T`_[XZ`^¥VZX]aaaa_]a_W]_a`_¥P[ZZZYS
@HWI-EAS443:3:19:97:1987#0/1
CTGTAATTGGGTATCTCATTGCCATCATCCACTTCATTCT
+HWI-EAS443:3:19:97:1987#0/1
a`^S^`^YYYVR¥`a`^^`^`aaa`_`[^¥^]¥¥]`^XS¥
@HWI-EAS443:3:1:1023:1328#0/1
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+HWI-EAS443:3:1:1023:1328#0/1
aaaUaJ[aaa`P[R^W^aQV^`^`Q`¥Na¥`_`^`aaUBBBBB

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`a` [aS]U`aVaaa^UU[a^¥a^J]a` ¥UZZWBBBBBBB
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+HWI-EAS443:3:1:1111:565#0/1
a`ba_a_X`b`^``aaaa_¥`_]W`_`__Z^_U]_^`^`BB
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+HWI-EAS443:3:1:1153:619#0/1
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+HWI-EAS443:3:1:1198:1272#0/1
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+HWI-EAS443:3:1:1214:1391#0/1
aa`a`ba`bab¥Xa_Xaab_aa``Zaa_X[`_a`0`Xaa`
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+HWI-EAS443:3:1:1215:1586#0/1
a^X_SQ_aa[_V^a_^_[aHH`_aa`¥a_aU`_U_WBBBB
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+HWI-EAS443:3:1:1232:264#0/1
`b^HU`Z^`_a_Za]a____`[[]__`^^]_¥]^^Z]BBBB
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+HWI-EAS443:3:1:1243:796#0/1
aaa_bbbbaa_bba]¥bba``aaaaabbbaa]`¥[^_baYUB
@HWI-EAS443:3:1:1271:1380#0/1
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+HWI-EAS443:3:1:1271:1380#0/1
aa`baaT_babaa_a^baabb^X`_ab_V`WaWaW_Q]BB
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+HWI-EAS443:3:1:1296:262#0/1
abb`bX[]aa]a[aaaba_`___aa]aa`_a` [`P`aaBB
@HWI-EAS443:3:1:1380:1221#0/1
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+HWI-EAS443:3:1:1380:1221#0/1
aWaZ¥VLQ]_^`_] []]]_ZTWT_VWUWWZVBBBBBBB
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+HWI-EAS443:3:1:1404:551#0/1
a`aY`]¥` `b_aa^Y__a[DTaa`SWa_W_]`_Y`YYBBB
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+HWI-EAS443:3:1:324:1230#0/1
aba¥_ba`bbaa¥b``aX¥a¥a`aaa_`a_aYR`__^BBB
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+HWI-EAS443:3:1:409:1586#0/1
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+HWI-EAS443:3:1:417:380#0/1
`_a`b`_`aWa_aa_aa^¥_aa_`_`^aYaa]^X^`¥__BBB
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aa_¥a]JX`^`_TXV_aa]]_`^`_]Z[VY_]U]_BBBBBB
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+HWI-EAS443:3:1:433:696#0/1
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+HWI-EAS443:3:1:451:1402#0/1
a[aaaab`a`a`baa`^`_0aa_baXN`VaaUX^BBBBB
@HWI-EAS443:3:1:504:631#0/1
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+HWI-EAS443:3:1:504:631#0/1
^bb[aaaaaaaa_aY`[a__a[aa[`a¥`[__XNSBBBB
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+HWI-EAS443:3:1:517:651#0/1
^[¥`bb¥SX^Ta`aa]J]baab¥a]a_aTX]RUYaX]_BB
@HWI-EAS443:3:1:556:1096#0/1
GCGAGATACTACTAAGACCACTGTGGACCATATGGCCAT
+HWI-EAS443:3:1:556:1096#0/1
aaa`a_aa_aa_aaaaa^_Ya_a`Q`____^^`^`^]VBB
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+HWI-EAS443:3:1:611:1576#0/1
ab_^baY^bab¥aaba_`^^aS[[M[_^baVVTX¥RX^BB
@HWI-EAS443:3:1:616:535#0/1
ATCCTTTCCAAGAACTGTAAGTCGTTTGGTTGCCTTGTG
+HWI-EAS443:3:1:616:535#0/1
`bb`aaaaXa`a_[^ab_`a`0`b`__aa¥aa]¥^__`aB
@HWI-EAS443:3:1:632:287#0/1
GAATAAAAGAAGACTGAGAGATCTAATGTCGCAGTCCCGCAC
+HWI-EAS443:3:1:632:287#0/1
a]_a`a_____Y``^`_`_V_`__aUVYL¥^VWUBBBBB
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+HWI-EAS443:3:1:645:799#0/1
a^_^bX_aa¥a¥__^__a_]¥__Ya]__]_WX]YUYBBB
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CCCCACTCAGAATGAAGTGGATGATGGCAATGAGATACC
+HWI-EAS443:3:1:648:503#0/1
aaab`b_babbaabba`b_a_aaba`aa¥^aaa`aa`a¥B
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+HWI-EAS443:3:1:670:34#0/1
a[_`aWLS[`] [¥VU_WPX]Z]OZYVMVYS]XYUVTBBBB
@HWI-EAS443:3:1:747:755#0/1
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+HWI-EAS443:3:1:747:755#0/1
^^_ab^Q[baaa`Y` `aa[a¥a_aaa[]^SPSPG_V^^BB
@HWI-EAS443:3:1:786:1203#0/1
CTTCCTGATGTGTACTTTTTGATTATGGCCATATGGTCCA
+HWI-EAS443:3:1:786:1203#0/1
ab`` `^b`¥aNa[[a_b`bbbabaaa]TTYaY_VM[TBBB
@HWI-EAS443:3:1:798:1315#0/1
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+HWI-EAS443:3:1:798:1315#0/1
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+HWI-EAS443:3:1:879:519#0/1
aaa]a][` [Y]a^_^UPU¥¥UZZ^^]X_¥V[WW]¥]]BBB
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aa`a`aYbbbbbaaa`Y`a^ab^`_`aabXX^UTV_PTS[BB
@HWI-EAS443:3:1:964:831#0/1
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+HWI-EAS443:3:1:964:831#0/1
^^`^` `]XZa[`` [aa_aa]a^]aa`^aa` `YVY]` [0BB
@HWI-EAS443:3:20:1004:534#0/1
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+HWI-EAS443:3:20:1004:534#0/1
N`ZQT` `aa]aXHZaa^¥XQU^a`^P]¥SY]WGQ_OU
@HWI-EAS443:3:20:1065:1292#0/1
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+HWI-EAS443:3:20:1065:1292#0/1
aa`_Z`aa__a`_a`a_a^]a¥^`__a_a_aa]`S_ZY__
@HWI-EAS443:3:20:1079:1360#0/1
GGTGGTTCACTTTCAAAGGACAAGCGGATCATCAGTCA
+HWI-EAS443:3:20:1079:1360#0/1
ab]aaa_]`_aaaa^U`]Zaa_Z]`_]a]`[_^_a__0_`
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+HWI-EAS443:3:20:1084:1279#0/1
ZQ¥S`N_abZ`b`aaaaa_S` `aa` `a^U_a` ``]]^__Q

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+HWI-EAS443:3:20:1148:2011#0/1
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+HWI-EAS443:3:20:1188:1745#0/1
aabbbbaaaaaababbbbaaabbabbbabaaabbaab[a
@HWI-EAS443:3:20:1193:290#0/1
AACTGAGAGATCTAATGTGCGAGTCCCGCACTCGCGAGAT
+HWI-EAS443:3:20:1193:290#0/1
ab`X[Ta_baaa_]abb`_Y]¥aQ]aaa`Z[``]_a``QV
@HWI-EAS443:3:20:1196:977#0/1
TTGTAATTGAATACTGGAGAATTGCCTTTACCAGTATCC
+HWI-EAS443:3:20:1196:977#0/1
`aXV````_ZS`a``aZ`bY^^^[a¥Wab`_a`b_^_``^
@HWI-EAS443:3:20:1243:289#0/1
GGAAAAGCACTTTTGCATCTTTTGGAAATGCCTCAAGAG
+HWI-EAS443:3:20:1243:289#0/1
¥a^bb_ab^abb`_aaa_bbbbbba`_abb^`aaa`b]`
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TAATGTCGAGTCCCGCACTCGCGAGATACTCACTAAGAC
+HWI-EAS443:3:20:1263:365#0/1
`]b__X```a_V[Y]a]XX]YSW^^`X]VU¥^YLT[]YP
@HWI-EAS443:3:20:1264:336#0/1
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+HWI-EAS443:3:20:1264:336#0/1
aabb^`aabbba[aba`aaaabYaaa`a][Ra[¥[^¥]U
@HWI-EAS443:3:20:1287:1012#0/1
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+HWI-EAS443:3:20:1287:1012#0/1
abb`abbabb_aaabbaabaabbababaa`aaaaa`_
@HWI-EAS443:3:20:1312:1503#0/1
TTGAGGATTAGCTCATCTTTCAGTTTTGGTGGGTTCACTT
+HWI-EAS443:3:20:1312:1503#0/1
aaaYa_`aa_^Z`Y`^Z^aa^]^_aa^_ZYa^aS[]XVZ]
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+HWI-EAS443:3:20:1312:920#0/1
`_a^a^_a^`_aaa`_`a_]_Z]^`^`_Z__Z__XW
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GAATAAAAGAAGTGAAGATCTAATGTCGAGTCCCGCAC
+HWI-EAS443:3:20:132:206#0/1
aX_VUX¥`aNPUa¥¥VW__aaZYU¥XLPX¥TVHHXXG]PU
@HWI-EAS443:3:20:1343:942#0/1
TGCTGTAATTGGGTATCTCATTGCCATCATCCACTTCATT
+HWI-EAS443:3:20:1343:942#0/1
`¥JaZY`Na`aaaU_`____`_UZ_ZZ^^^X_Y__G^^`
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TGCTGTAATTGGGTATCTCATTGCCATCATCCACTTCATT

+HWI-EAS443:3:20:1360:159#0/1
abaaa]]Xbab¥[V`a`b_[aa_[]]a[`aYX`_a`U^`
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CAATAGTACGTTCCCTCTTTGATCTCTAACCCCTAAAAAT
+HWI-EAS443:3:20:1372:1589#0/1
¥¥_[[S^a¥^a_PHIWO_]`^`N`_`aSYa¥a]XZ` `][` [¥
@HWI-EAS443:3:20:1372:756#0/1
TGCCTTGTTGTAATTGAATACTGGAGAATTGCCTCTTACC
+HWI-EAS443:3:20:1372:756#0/1
WF^aV¥a]a`^XZ_^`_^baaaaY`aYV]U[VZZO[``XS
@HWI-EAS443:3:20:137:323#0/1
TCCCGTTTTTCGTTTCATTACCAACTACGTCCCCTTGCC
+HWI-EAS443:3:20:137:323#0/1
aaQ[¥U`aa`ZXaaUW_W`Z]X`a`VJ]¥K[[]`¥TQ[]
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+HWI-EAS443:3:20:1407:328#0/1
_P__bQR^]R[]N[^a_ZYRTY[U[RP_^BBBBBBBBBBB
@HWI-EAS443:3:20:1460:1388#0/1
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+HWI-EAS443:3:20:1460:1388#0/1
aa` `a_aaa[aa`__aa^`[aQa]`aY^aL]S]VU¥¥NIE
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+HWI-EAS443:3:20:147:856#0/1
a_bbbbabbbZa_`b`aa]_a`aabab¥aa`aa_a`a]____
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+HWI-EAS443:3:20:1494:668#0/1
a[[N[^U` `aaaZ`¥TN_¥a[N¥XW_^^^VYPVTLTYST
@HWI-EAS443:3:20:149:836#0/1
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+HWI-EAS443:3:20:149:836#0/1
a`ab`aab[abaab[a_abaN`a` `^a` ` `__aa_`^WUY
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+HWI-EAS443:3:20:1524:696#0/1
]J_`bbbb]ab]bab`ba¥`^`aaaabaaaW_aaba_
@HWI-EAS443:3:20:155:1201#0/1
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+HWI-EAS443:3:20:155:1201#0/1
abbab`babaa_aaa^aV]aaaaaa_`a[`a`U`Y^Y_`
@HWI-EAS443:3:20:1560:749#0/1
GTCTGCTGTAATTGGGTATCTCATTGCCATCATCCACTTC
+HWI-EAS443:3:20:1560:749#0/1
¥0_aa^a` `]`aa`_]Za`Z_X`¥a[Z`¥R[[YV]V¥YV
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+HWI-EAS443:3:20:1617:1286#0/1
aba_Wa`_b_aabRaaaaa]a_^`b_XUV]U___]__Z^^]

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aa`baaaaa_aXa``^`]¥`W^XV]^a`_X]]_^^_R_
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+HWI-EAS443:3:20:1631:1784#0/1
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@HWI-EAS443:3:20:1634:754#0/1
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+HWI-EAS443:3:20:1634:754#0/1
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+HWI-EAS443:3:20:1664:1446#0/1
aaaabab_aabaaa`[a_aa]a_aa]0[]_^^_S_____^
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+HWI-EAS443:3:20:1672:1455#0/1
UYb[baaabbaa[ZU¥b`]UNQ¥Rbbb_aVL[[Z]aGV`^
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+HWI-EAS443:3:20:1689:153#0/1
aab`a`a^_X_b__a`[b___X_`_`Y]^]Y_VY^X¥YXY
@HWI-EAS443:3:20:1702:404#0/1
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+HWI-EAS443:3:20:1702:404#0/1
a_b^bb`aaa¥a[___a¥aa_b¥`aa_`a`_¥a¥U¥_Y`__
@HWI-EAS443:3:20:18:943#0/1
ACAGCAGACAAGAGAATAATGGACATGATTCCAGAGAGGA
+HWI-EAS443:3:20:18:943#0/1
aa`aa]¥OZ¥ZXV[NX]Z^¥^TQ¥aV^¥PQNZ]WTUPNUV
@HWI-EAS443:3:20:213:1244#0/1
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+HWI-EAS443:3:20:213:1244#0/1
`b¥`aaa`b^W`a```X[a[a_Z]]a¥`N[^ZYFZY_[-
@HWI-EAS443:3:20:218:1734#0/1
ATACTACTAAGACCACTGTGGACCATATGGCCATAATCA
+HWI-EAS443:3:20:218:1734#0/1
`a``^a_a`a^S`_abaS_[[`a_a_^_]]Za_^VY^]]]
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+HWI-EAS443:3:20:261:340#0/1
a[_a_^Z``^^`Y```_a_____```^]__^XRYVVTZVV[
@HWI-EAS443:3:20:264:1636#0/1
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+HWI-EAS443:3:20:264:1636#0/1
`a`a¥Z^a`¥aa`bUababTaZWa^aa`U_]a__aY_Z`^
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+HWI-EAS443:3:20:27:126#0/1
a¥a`[___]^___]_^`_]_^]___]^[^]^W]]W^^X]XZ
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+HWI-EAS443:3:20:286:1497#0/1
¥__^X][O[ZTJ^YTGv_a_V]URX_SF^_]NY^ZX¥_^ZU
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+HWI-EAS443:3:20:29:1016#0/1
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+HWI-EAS443:3:20:342:60#0/1
a__a^`a`_^`^a_a_U_W_Y_^`_XR_]^_ZZXZZ^X^
@HWI-EAS443:3:20:359:1508#0/1
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+HWI-EAS443:3:20:359:1508#0/1
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+HWI-EAS443:3:20:375:184#0/1
a¥ZaSa_a]¥WS`_U^¥UWM]^UWWWWSUSUPUT¥SBBB
@HWI-EAS443:3:20:385:458#0/1
AATGCGGGATGTGCTTGGGACATTTGACTGTCCAAATA
+HWI-EAS443:3:20:385:458#0/1
`XZa]ba^`a^aa[0___]_aa`_____¥`^]^^^__
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+HWI-EAS443:3:20:399:1594#0/1
`bbababab_]aaa`aaXaa`a_Ya_a__a`a`_Xa__
@HWI-EAS443:3:20:39:1110#0/1
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+HWI-EAS443:3:20:39:1110#0/1
^O^ba_VV]aa^Y]]]_¥^¥¥]WS[^_^_][VRX[XZQS00
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+HWI-EAS443:3:20:477:619#0/1
`ab`^_^aZ_a^X]VQV^a`a`W^`¥^T^X`]P]^_V`_¥
@HWI-EAS443:3:20:487:202#0/1
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+HWI-EAS443:3:20:487:202#0/1
`bbZN]_]¥¥]`Xaa`I^a`[^aZR^VJ¥SXV`¥X]VVUK
@HWI-EAS443:3:20:571:626#0/1
GTCTGCTGTAATTGGGTATCTCATTGCCATCATCCACTTC
+HWI-EAS443:3:20:571:626#0/1
a_aa```^MX_`aa`X`_^_]_^]___^_Y_]_^]_^Y

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+HWI-EAS443:3:20:605:1338#0/1
¥U_]_aa`[`a_a][aaa`a`Z`^`a_T_a_[_X_¥^U[_
@HWI-EAS443:3:20:645:119#0/1
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+HWI-EAS443:3:20:645:119#0/1
a_J¥[YaaVPUIX`Z`_`^X[[ZUXRW[[]WNQY]TZXU¥
@HWI-EAS443:3:20:651:172#0/1
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+HWI-EAS443:3:20:651:172#0/1
abaaaaa_abaaaaa_aa`aa^[`a]¥ZZ__[____Z^W[[
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aa``bb`_`_`aaaa`aabT__aa[`_¥____S_¥¥`
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+HWI-EAS443:3:20:674:814#0/1
aa¥a`[``__a[X^bab]aab^)`Ra]Yaa]a`¥aaM^^
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+HWI-EAS443:3:20:680:1408#0/1
a]aaa_Raaab¥_`HY¥XZ_¥)``_`_a_`[YUZ[NJUZ
@HWI-EAS443:3:20:688:204#0/1
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+HWI-EAS443:3:20:688:204#0/1
aab`aaaa^)^aaa`aaa__a¥)``_`[¥^____^¥¥Y^¥]
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+HWI-EAS443:3:20:68:1764#0/1
a`b__W¥a`Y^`babb_aa`b]`ab_a`````_`a`]^R
@HWI-EAS443:3:20:694:1382#0/1
CTGCTGCTGAGAGATTTCTCATTGTTGGGCAAAGAAGA
+HWI-EAS443:3:20:694:1382#0/1
aaa]¥aUYb_a__[]`aX]^__[[`_`W]^^^U]^^]_^
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+HWI-EAS443:3:20:702:1022#0/1
aaaaa^aaba[aaZa`a``_`^aa`_Yaa```Z``_``^
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+HWI-EAS443:3:20:725:766#0/1
Y[_]aba_bZ`XV¥a__¥L[[_]abaSaa`aa`_aT]a_`_
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+HWI-EAS443:3:20:738:693#0/1
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+HWI-EAS443:3:20:772:360#0/1
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+HWI-EAS443:3:20:777:633#0/1
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+HWI-EAS443:3:20:790:418#0/1
a^bb^bab]abaaaa_a`baaaaa``aaa¥a`a^_aa]`
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GTCCCGTTTTCGTTTCATTACCAACTACGTCCCTTGC
+HWI-EAS443:3:20:827:230#0/1
aG]TY^GSY__]SVR¥__]] [W]YU_¥W^^]YUUUVUUWU
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+HWI-EAS443:3:20:837:860#0/1
`b_` [ba^a_¥¥]ZW``]]Y``abaa]a_aa]aa`aaa¥_
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+HWI-EAS443:3:20:840:231#0/1
a]a`^^`^^_Y_]¥_^T¥Y^]]_] ^[]_W[YWY^Y[YZWY
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+HWI-EAS443:3:20:849:1181#0/1
a`_a_a`aa_aa_``aaaaaW_a¥_¥¥_] ^_^^¥WVWU¥
@HWI-EAS443:3:20:86:1315#0/1
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+HWI-EAS443:3:20:86:1315#0/1
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+HWI-EAS443:3:20:890:642#0/1
aaaaa`a`baaa^aaaZa`_aa^__^`aX^V]__X__]X]
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+HWI-EAS443:3:20:915:1118#0/1
W_bb```aaa¥b``¥aa[_]T¥^Z`_W_b_```aa^aa_Za]
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+HWI-EAS443:3:20:925:756#0/1
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+HWI-EAS443:3:21:1132:105#0/1
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+HWI-EAS443:3:21:1151:283#0/1
aa_aa`a`a[`aa_a[`aXa`aa^a_`_]_Y]Y]_Z_¥_
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+HWI-EAS443:3:21:1165:844#0/1
abbaaa]Va^bTa``_0_a`aa`_Yaa`¥X¥[OU]`__a^
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+HWI-EAS443:3:21:1175:69#0/1
aaab]_a^¥b`aa_aa^X[ZY]0__^[Y_Y_]¥S`XSV]¥
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+HWI-EAS443:3:21:1208:201#0/1
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+HWI-EAS443:3:21:1238:1192#0/1
aabbaaaabaaaaaaaaaaa`aaa__`]`]_a^`¥_`^^¥_
@HWI-EAS443:3:21:1248:565#0/1
GCAGTGTGAGCAGACCCATTAGCATCTCTCTTGAAATGT
+HWI-EAS443:3:21:1248:565#0/1
aa`a[a_aa_a_¥_¥_¥_``[__¥WW^¥UW^`__[_`UNU
@HWI-EAS443:3:21:1260:1888#0/1
GAGAATAAAAGAACTGAGAGATCTAATGTCGCAGTCCCGC
+HWI-EAS443:3:21:1260:1888#0/1
aYUO_S`^a`^Z_[_a`Y`aXQ`_a_a`RW¥]_Z[YGUUV
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+HWI-EAS443:3:21:1318:1234#0/1
a`^aaabbbabba¥aa`aaaaZa]a^a_aSa^^aY[`]
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+HWI-EAS443:3:21:1332:837#0/1
¥^]_aZaa`aaaa`P]X_aaYaaYVG¥Y`a`_Y]aX]^Y
@HWI-EAS443:3:21:134:633#0/1
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+HWI-EAS443:3:21:134:633#0/1
¥`^bbbab`Yabbb^ab_¥_S`aaa[]_a`X`_[DTZ__]
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+HWI-EAS443:3:21:1360:1032#0/1
]JY^aa_Y_``a¥^]Q¥aZ[[V]_^PX[X]Y]XZUVSSR

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+HWI-EAS443:3:21:1398:244#0/1
^bW_]ab)`a`ba[Iba`baa]`[a_aaaW_b_ab[PU[^
@HWI-EAS443:3:21:1400:1492#0/1
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+HWI-EAS443:3:21:1400:1492#0/1
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+HWI-EAS443:3:21:1409:362#0/1
a]___a^)`¥aa^`^_YY_W`Y__`VYXX_YV_^_X^X
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+HWI-EAS443:3:21:1434:874#0/1
a^a_¥U^PaaaY`¥_aX`_a^¥M^^^YZZU]`[]^¥YW
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+HWI-EAS443:3:21:1447:1470#0/1
_^^_a]]aaaa]__^a_a^_`^`¥`_Y^^R^¥VNNWY
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+HWI-EAS443:3:21:1456:349#0/1
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+HWI-EAS443:3:21:1502:744#0/1
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+HWI-EAS443:3:21:1507:941#0/1
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+HWI-EAS443:3:21:1525:296#0/1
`[_Vaaa`a^^ZXa`_`^^Z^^_XRZWY]^Y]Y]]YY^
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+HWI-EAS443:3:21:1526:171#0/1
aaaaa`a^baaaa^^__aa`aaZT[V__WVXQYQUSYVQJ
@HWI-EAS443:3:21:1627:1713#0/1
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+HWI-EAS443:3:21:1627:1713#0/1
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+HWI-EAS443:3:21:1671:716#0/1
a_XPW[[[]SJ[TWQ]NSTOPY`NT[ZTGQ¥W^MDVX]Y¥
@HWI-EAS443:3:21:1730:1764#0/1
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+HWI-EAS443:3:21:1730:1764#0/1
aaa¥_aa^YVXR][[U^_NYXXS]U^`_]`_][M^W^XX]
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+HWI-EAS443:3:21:1768:1795#0/1
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@HWI-EAS443:3:21:1773:776#0/1
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+HWI-EAS443:3:21:1773:776#0/1
`¥` `_a` `]`_`__^^`_`__^`^]`_`_]YXV]_XY]XYXX
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ab¥bba`ba¥`aaaa¥aaaa`a¥`X`^]_aaa_a^` `a__
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+HWI-EAS443:3:21:181:731#0/1
aa[^]_]Ra`Z]`a`_¥^¥_`aWWZ_YVT_OZ^[WY]Z
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@HWI-EAS443:3:21:223:1946#0/1
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+HWI-EAS443:3:21:223:1946#0/1
aaa` `]WY_`U_a_Y` [a`_R¥]_XY^Z_`[^¥SOP[S
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+HWI-EAS443:3:21:279:650#0/1
`aabX`aaa`ba`baaa`aaaa`aaaaR^a^^_]`_`^`
@HWI-EAS443:3:21:285:1287#0/1
AAGGGTATGAAGAATTACAATGGTTGGGAGAAGAGCAAC
+HWI-EAS443:3:21:285:1287#0/1
_¥_a^OT^]`X`a` `a^a^]`aa^_¥Z[^¥Z¥Y]_`_`_`

@HWI-EAS443:3:21:28:1511#0/1
AAAAGAAGTCTAATGTCGCAGTCCCGCACTCGC
+HWI-EAS443:3:21:28:1511#0/1
ab`aa_aaaa_`aa_aa¥aaa]`_a__X]_a[___]^_^_
@HWI-EAS443:3:21:304:28#0/1
CGGCTACTGGGAGAAACCTTGTTCACGGACCAATTCTCT
+HWI-EAS443:3:21:304:28#0/1
ababaaW_`]a[a`a^R^[^^W`_]U]_]V_]_]`R_]Z
@HWI-EAS443:3:21:313:443#0/1
AGACCACTGTGGACCATATGGCCATAATCAAAAAGTACAC
+HWI-EAS443:3:21:313:443#0/1
ZV`baaaHRNW_`a¥JUHXa__aPMGGRU_S^_aFHX_LG
@HWI-EAS443:3:21:318:1589#0/1
TTCATTACCAACTACGTCCCCTTGCCCAATTAGCACAT
+HWI-EAS443:3:21:318:1589#0/1
aaabaabaabaaaaaa`^a^aa__`_^`a`]^XPX_]_^
@HWI-EAS443:3:21:322:1203#0/1
GAGAGGATTTCTCATTGGGCAAAGAAGACAAGAGATAT
+HWI-EAS443:3:21:322:1203#0/1
aWOW]SY_XVaUYaa^¥[WFYUUYUP_JHX[]NU¥RX]^_
@HWI-EAS443:3:21:412:935#0/1
ATGATGGCAATGAGATACCCAATTACAGCAGACAAGAGAA
+HWI-EAS443:3:21:412:935#0/1
abaaabaa_aaaa`aabaaaa`aaaa_a`_]a`aa`
@HWI-EAS443:3:21:425:879#0/1
TCCCGTTTTCGTTTCATTACCAACTACGTCCCCTTGCC
+HWI-EAS443:3:21:425:879#0/1
[b[`bVvaz]a`I`XVYT[Z[``aaVR`^UGWGSYNFVWE
@HWI-EAS443:3:21:428:1698#0/1
CTGCTGAATTGGGTATCTCATTGCCATCATCCACTTCAT
+HWI-EAS443:3:21:428:1698#0/1
aa^X[0]^Z]SQ¥M[_`_^[NVYU_`_^XL[`]TS__U
@HWI-EAS443:3:21:452:1016#0/1
GGGAGATCAATGGCCCTGAGTCAGTGCTAGTCAACACTTA
+HWI-EAS443:3:21:452:1016#0/1
a`^`]¥[_a^Y]Z¥^^][W^a`W_a[_ZNWUX^_VU_Z
@HWI-EAS443:3:21:453:353#0/1
TCTGTCTAAGGATGTCCACCATCCTTACTCCTCCAATCTG
+HWI-EAS443:3:21:453:353#0/1
aab^aaa`aa`^¥U_a`^^`ZZ_Z`^U¥_`XW^[_^Z^_
@HWI-EAS443:3:21:470:1498#0/1
TTGCCTTACCAGTATCCTCAACCCTGATCCTCTCACAT
+HWI-EAS443:3:21:470:1498#0/1
_¥Xa^¥a`abbbbaa¥``aaabb_aaa^[_aa`_``a_aa
@HWI-EAS443:3:21:508:1192#0/1
GTCCCGTTTTCGTTTCATTACCAACTACGTCCCCTTGC
+HWI-EAS443:3:21:508:1192#0/1
aaaaaa¥ababa_`_aaaaaaa^a`_a_Z]`^_^^XZ^
@HWI-EAS443:3:21:549:878#0/1
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@HWI-EAS443:3:21:732:660#0/1
CTAATGTCGAGTCCCGCACTCGCGAGATACTCACTAAGA
+HWI-EAS443:3:21:732:660#0/1
abaa]bVb`aaaUaaaa]__a__^]_¥W¥¥^_^Z[Y[^
@HWI-EAS443:3:21:736:964#0/1
GAGAATAATGGACATGATTCCAGAGAGGAATGAACAAGGA
+HWI-EAS443:3:21:736:964#0/1
a`b`ab]baa`ba`a_aa]_`a_a`^^^¥a__^^`Y^
@HWI-EAS443:3:21:79:109#0/1
ACAAGGACAAACCCTCTGGAGCAAACAAACGATGCTGGA
+HWI-EAS443:3:21:79:109#0/1
aabbb`baba_```aaaa`a_]a_a¥a_a^ZVU[^]`^Y
@HWI-EAS443:3:21:802:1892#0/1
AAAAGAAGTGGAGATCTAATGTCGAGTCCCGCACTCGC
+HWI-EAS443:3:21:802:1892#0/1
aba`a_a[^aa^`_Y_```_^]SS¥^WUZXU[^]UUUX
@HWI-EAS443:3:21:829:48#0/1
CGAGATACTCACTAAGACCACTGTGGACCATATGGCCATA
+HWI-EAS443:3:21:829:48#0/1
abaaaaaa`a`a_a`aa`aXa^^][^__^`XR^Z]
@HWI-EAS443:3:21:849:1098#0/1
AAGAAGTGGAGATCTAATGTCGAGTCCCGCACTCGCGA
+HWI-EAS443:3:21:849:1098#0/1
_aZ`_aa_a_____Y`_aaY]a`_X]RR[RWXUWXRXX
@HWI-EAS443:3:21:868:1631#0/1
CATTACCAACACTACGTCCCCTTGCCCAATTAGCACATTA
+HWI-EAS443:3:21:868:1631#0/1
aaaaaa_aa[aX__`^V`]a_[]YY^^_VX_OV^O]RW^
@HWI-EAS443:3:22:1005:845#0/1
AAAAGAAGTGGAGATCTAATGTCGAGTCCCGCACTCGC
+HWI-EAS443:3:22:1005:845#0/1
abaaaaa`aaa_aa```aa`ab^`_```YW`^^YV¥__Z]
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+HWI-EAS443:3:22:1008:517#0/1
ababbbba`bababbbbaaab^bb_aaa_aaaaaa`[Wa
@HWI-EAS443:3:22:1024:752#0/1
AAAGAAGTGGAGATCTAATGTCGAGTCCCGCACTCGCG
+HWI-EAS443:3:22:1024:752#0/1
`ZZ`a_aa_YV[]R¥UX`_YUVP RRY]BBBBBBBBBBBBB
@HWI-EAS443:3:22:1027:219#0/1
ATCCTTACTCCTCCAATCTGTGTGCTGTGGCACATTTCCA
+HWI-EAS443:3:22:1027:219#0/1
`b`^b^¥`b`[a__aaa`aaV__]]`a__`¥`U^aa`^]`^
@HWI-EAS443:3:22:1034:1162#0/1
GGCTTGTTCCTCAGTTGGATTCTGTCTAAGGATGTCCACC
+HWI-EAS443:3:22:1034:1162#0/1
ababa[`aa`aaZY]a^`a`bab`_[__a`aU^S_]a^U`
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GGTGGTTCACTTTCAAAGGACAAGCGGATCATCAGTCA

+HWI-EAS443:3:22:1059:1013#0/1
a^T_`a]aa^¥a`^Z]`aa^W]Y¥Y]¥Y`¥¥^Y^`W^¥
@HWI-EAS443:3:22:1092:265#0/1
GTGGCGTACATGCTAGAAAGAGAATTGGTCCGTAAAACAA
+HWI-EAS443:3:22:1092:265#0/1
a^_QZb`aaaa__a`_aYa]_a_W]V]^^[^Z¥[^UZ]
@HWI-EAS443:3:22:1112:201#0/1
CCCCTTTTCGTTTTATTACCAACTACTGCCCCCTTGCCC
+HWI-EAS443:3:22:1112:201#0/1
a```Xaaaab_aa```ab_^aa[``_a`^]]W`_¥Z¥^W
@HWI-EAS443:3:22:1142:67#0/1
CTTGTCCTTTTGAAAGTGAACCCACCAAACTGAAAGATG
+HWI-EAS443:3:22:1142:67#0/1
X`abVKUababbb`a¥^a_babababaa]a^bbba_a`
@HWI-EAS443:3:22:1156:197#0/1
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+HWI-EAS443:3:22:1156:197#0/1
aa`_`b_aaaa^aa_aa`a^__`^`Y`_]`YUVZU^^[Z
@HWI-EAS443:3:22:1165:843#0/1
CTTGAAAGGATGCAGGTGCATTGACTGAAGATCCAGATG
+HWI-EAS443:3:22:1165:843#0/1
abbaabba¥`abbbab`]]abaababbbbaa`]abaaa
@HWI-EAS443:3:22:1213:192#0/1
TCCCGCACTCGCGAGATACTACTAAGACCACTGTGGACC
+HWI-EAS443:3:22:1213:192#0/1
`a^Xa[_Ua¥¥K_W`W]WU_]^[_ZXUXWY]]TNTVKP]^
@HWI-EAS443:3:22:1216:892#0/1
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+HWI-EAS443:3:22:1216:892#0/1
a`[_`a_Z]_¥b^a]]_ROS[[[¥OT_VTXSWZ`]UYWZ_ZT
@HWI-EAS443:3:22:1228:303#0/1
CCATCACATTGTCGATGGATTCAATTCGCCAGTTCTGGAA
+HWI-EAS443:3:22:1228:303#0/1
`_aba]_abb_U`aaaa¥^baY`aaaURV```a]Saa_aa
@HWI-EAS443:3:22:1240:1323#0/1
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+HWI-EAS443:3:22:1240:1323#0/1
aa`abbbab`bbab_abbaabbaa_aa_aaaa_aaa`a[_
@HWI-EAS443:3:22:1272:1332#0/1
ATTCCGATCATTCCCATCACATTGTCGATGGATTCAATTC
+HWI-EAS443:3:22:1272:1332#0/1
aa`_`a`a_a_]`Y`__a^a__]V^X]]]]ZU]]^ZY
@HWI-EAS443:3:22:1320:67#0/1
CCCCGCACTCAGAATGAAGTGGATGATGGCAATGAGATAC
+HWI-EAS443:3:22:1320:67#0/1
aaaab_a`b`_b_ab`_aaQba``a^^^`U__^aP]V`]N
@HWI-EAS443:3:22:1352:753#0/1
CCCTAACTGCCTTGATCATGCAATCCTCTTGTGAGAATAC
+HWI-EAS443:3:22:1352:753#0/1
aa_Ua__a`X^a`]]aaa[a`_V```]_[_`_a^[_`_]`¥V

@HWI-EAS443:3:22:1359:562#0/1
CGATGCTGGATCAGACCGAGTGATGGTATCACCTCTGGCC
+HWI-EAS443:3:22:1359:562#0/1
aba`b_bbba_M`aaaaa` `[b_` ` _[``Za_Q`^`_`¥^
@HWI-EAS443:3:22:1374:546#0/1
GCTGTCCTGAGAGATTTCTCATTTTGGGCAAAGAAGACA
+HWI-EAS443:3:22:1374:546#0/1
a`ba`_`aa_a_aa]a`a`Y`aa`a`¥]`__a`___Y`
@HWI-EAS443:3:22:1377:1382#0/1
GTCCCCTTTTCGTTTTATTACCAACTACGTCCCCCTTGC
+HWI-EAS443:3:22:1377:1382#0/1
`a`VT^¥[_`_b_a___aaa[¥]M^Y]_]O`YRSXOIDK]
@HWI-EAS443:3:22:137:446#0/1
TGCTAATTGGGCAAGGGGACGTAGTGTGGTAATGAAACG
+HWI-EAS443:3:22:137:446#0/1
`a`a`_`aa`aaa`_aa`_Y` ``]`_ZaY`a`X^^]UR`^MY
@HWI-EAS443:3:22:1389:634#0/1
GCTGTCCTGAGAGATTTCTCATTTTGGGCAAAGAAGACA
+HWI-EAS443:3:22:1389:634#0/1
aaa`_`_]`aaa`a^¥aa`¥aX_aa`_aR____]_]_^_[]`
@HWI-EAS443:3:22:1443:535#0/1
AAAAGAAGTCTGAGATCTAATGTCGCAGTCCCGCACTCGC
+HWI-EAS443:3:22:1443:535#0/1
`ba`_`_`a`abaa_b`a_ba`ab__b]aa]]]V_____Z^V
@HWI-EAS443:3:22:1447:526#0/1
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+HWI-EAS443:3:22:1447:526#0/1
a`_`UH^¥[R^`V[PaYUa]a]ZP[a`^P][RV`¥PWXQG
@HWI-EAS443:3:22:1449:561#0/1
AAAGAAGTCTGAGATCTAATGTCGCAGTCCCGCACTCGCG
+HWI-EAS443:3:22:1449:561#0/1
aXO]Z_]_R[``a[]Y_aX` ``]TXVUXVKVUUNUTBBBBB
@HWI-EAS443:3:22:1462:1126#0/1
GAGAATAAAGAAGTCTGAGATCTAATGTCGCAGTCCCGC
+HWI-EAS443:3:22:1462:1126#0/1
``babbbaabbaa`aabaaaa_ba_aa`_a`^a[[^__[
@HWI-EAS443:3:22:1488:758#0/1
CACTCGCAGATACTACTAAGACCACTGTGGACCATATG
+HWI-EAS443:3:22:1488:758#0/1
aaaaab` ``aabV[b¥^aaa]a__aa_a^¥a`^ZZ]Z^``
@HWI-EAS443:3:22:1490:1141#0/1
GGAAGTTGTTTTCCCAAATGAAGTGGGGCAAGAATACTG
+HWI-EAS443:3:22:1490:1141#0/1
aa]`aU[_S]a`V^[_X__a] [_X`] `¥YPYVW[UZVMTY
@HWI-EAS443:3:22:1516:1166#0/1
TCCTGATGTGTACTTTTTGATTATGGCCATATGGTCCACA
+HWI-EAS443:3:22:1516:1166#0/1
^`_W¥`^YY¥¥¥VZ¥`_aa`aa`_¥]^UUXVUERSVQTHT
@HWI-EAS443:3:22:1546:1427#0/1
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+HWI-EAS443:3:22:1546:1427#0/1
`aaaaba`aaaaaaa`_bba`a¥_a_a_W¥____¥[M[¥¥[
@HWI-EAS443:3:22:1561:292#0/1
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+HWI-EAS443:3:22:1561:292#0/1
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@HWI-EAS443:3:22:1588:1816#0/1
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+HWI-EAS443:3:22:1588:1816#0/1
aa``¥U^`a`[^`T]R]_a`^WFY`GNUX^S_N¥U]VP
@HWI-EAS443:3:22:1608:1831#0/1
ATCCGCTTGTCTTTTGAAGTGAACCCACAAAAGTAA
+HWI-EAS443:3:22:1608:1831#0/1
Y]MM_a`_aaba^Q_]_W_`^JNZMHSYOH¥^__QJUY[
@HWI-EAS443:3:22:163:693#0/1
CTCACTAAGACCACTGTGGACCATATGGCCATAATCAAAA
+HWI-EAS443:3:22:163:693#0/1
`ab`abb``^bbb`__UUU^ab]YY^]¥`^OXV_VZW]`a
@HWI-EAS443:3:22:1643:2000#0/1
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+HWI-EAS443:3:22:1643:2000#0/1
aa_UR`X]a]`a_`^X`a`^Z]U[Z_^PTPZTXGPRZTZ
@HWI-EAS443:3:22:1688:589#0/1
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+HWI-EAS443:3:22:1688:589#0/1
aaaaa`a_aaa_aa_a]ba_aaYZ`]_]WXTXX]X^YXX
@HWI-EAS443:3:22:169:1284#0/1
CACTTTCAAAAAGGACAAGCGGATCATCAGTCAAGAAAGAA
+HWI-EAS443:3:22:169:1284#0/1
aba^^a^[aR¥_aab^ZYaaa^V^`Ya`aW`Kaa_aa`]`
@HWI-EAS443:3:22:1731:572#0/1
ATAAAAAGAAGTCTGAGATCTAATGTCGCAGTCCCGCACTC
+HWI-EAS443:3:22:1731:572#0/1
_VYT_WT¥^Z``X`[^`V_``_`XT¥RYZOSTSSQTZSY
@HWI-EAS443:3:22:1738:1284#0/1
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+HWI-EAS443:3:22:1738:1284#0/1
aabb_a``_ba^a``_`b``_aaa^V`[Z_bYa[baaa`W
@HWI-EAS443:3:22:1741:489#0/1
AATCCAAGTCTGAGGAACAAGCCGTAGACATATGCAAGGCAG
+HWI-EAS443:3:22:1741:489#0/1
aaa_W`_Yaaa]W_`¥_[aHVa^_a¥H]^]V]R[]VXW]^
@HWI-EAS443:3:22:1750:1629#0/1
CAGCACGTCCCTTGGGTTAAGTGCAACACTTCAATATAAA
+HWI-EAS443:3:22:1750:1629#0/1
[_b_^R^XPZ`ab]]a^a_a[G]^U]G[Va_T__a``_¥`
@HWI-EAS443:3:22:1760:901#0/1
CTCGGTCTGATCCAGCATCGTTTTGTTTTGCTCCAGAGGGT
+HWI-EAS443:3:22:1760:901#0/1
aaba`_bbbaabbbbbbbbabbbabb_Ya_`^``baa_

@HWI-EAS443:3:22:1765:99#0/1
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+HWI-EAS443:3:22:1765:99#0/1
abU`ZU]`_____Z]aX_R^]^[MhMZ#Z]]VXXZXPWXV
@HWI-EAS443:3:22:1791:977#0/1
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+HWI-EAS443:3:22:1791:977#0/1
abbabb_#aabbab`a_aa#Z_a``UZ#N#`_]a`aWaa_a
@HWI-EAS443:3:22:221:36#0/1
CAGTGGTCTTAGTGAGTATCTCGCGAGTGCGGGACTGCGA
+HWI-EAS443:3:22:221:36#0/1
`baSa#V`a_]`T`]_XTZ^^X[[_UZr_^__][SXZURZV
@HWI-EAS443:3:22:289:901#0/1
AAAAGAAGTGGAGATCTAATGTCGCAGTCCCGCACTCGC
+HWI-EAS443:3:22:289:901#0/1
``]ba_babbaabaaabba[aa]aaaa__aa]#` []aaa
@HWI-EAS443:3:22:32:1646#0/1
TGGTGGGTTCACTTTCAAAGGACAAGCGGATCATCAGTC
+HWI-EAS443:3:22:32:1646#0/1
`b_G_b`]ba`aWWab__`^aXa`^]a`b_`aaaa`Y`
@HWI-EAS443:3:22:338:733#0/1
AAAGAAGTGGAGATCTAATGTCGCAGTCCCGCACTCGCG
+HWI-EAS443:3:22:338:733#0/1
^]aaaa_`__`a[`aaaa`ba_a_`_`X]_YX___T`__
@HWI-EAS443:3:22:385:1475#0/1
GGCAAGGGGACGTAGTGTGGTAATGAAACGAAAACGGGA
+HWI-EAS443:3:22:385:1475#0/1
`^a^_a^aaa`a^_`]aYa`^V__^S__aQ[Y^^_GTRWY
@HWI-EAS443:3:22:430:976#0/1
GCAGACAAGAGAATAATGGACATGATTCCAGAGAGGAATG
+HWI-EAS443:3:22:430:976#0/1
aaba`aaaaaaa`abaaa`aaa``a`_a^^`_`^a__a^`
@HWI-EAS443:3:22:458:574#0/1
GCATCCTTTCCAAGAAGTGAAGTCGTTTGGTTGCCCTTGT
+HWI-EAS443:3:22:458:574#0/1
`Z` [TOVa#M[X#_LPV^US]W]WXSXQYZVY^WTQR^OZ
@HWI-EAS443:3:22:495:406#0/1
GGATTAGCTCATCTTTCAGTTTTGGTGGGTTCACTTTCAA
+HWI-EAS443:3:22:495:406#0/1
a`aaa_a__^V[]_`a^`]_]`X`S_Z^]UUTZ]_]V]]
@HWI-EAS443:3:22:496:1259#0/1
GTTTTCGTTTCATTACCAACTACGTCCCCTTGCCCAAT
+HWI-EAS443:3:22:496:1259#0/1
`aaaa`ba_a[aaaa``aaa`_`a__Z^X_a^#V__W]^_
@HWI-EAS443:3:22:496:1992#0/1
CAATAACAAAAGAGAAGAAAGAAGAGCTCCAGGATTGTAA
+HWI-EAS443:3:22:496:1992#0/1
a^``#aa^aaaa_`a`_`a`_a____a^a____#_#]_Z^^
@HWI-EAS443:3:22:525:266#0/1
GAAGTGGAGATCTAATGTCGCAGTCCCGCACTCGCGAGA

+HWI-EAS443:3:22:525:266#0/1
a^`^¥aaa]_`^¥_a_[`a¥__aa_W[¥¥¥`WSU¥_^^¥^W
@HWI-EAS443:3:22:55:431#0/1
GCAGTCAATTGCTGAGGCAATAATTGTGGCCATGGTATTC
+HWI-EAS443:3:22:55:431#0/1
aa]J¥abbaaaba``aaaaaaaaaa]Y_``_`^TaLWZ_N
@HWI-EAS443:3:22:565:644#0/1
GGTCAACATCATCATTCTCACTTCTCCTCCTGGAGTGTA
+HWI-EAS443:3:22:565:644#0/1
aaG[aa_a¥[_]M^a^`Naa_[G_]`ZQW^`]¥_H¥W¥
@HWI-EAS443:3:22:578:366#0/1
GCGAGATACTACTAAGACCACTGTGGACCATATGGCCAT
+HWI-EAS443:3:22:578:366#0/1
a`bVb]Z^_b`a`abba```a`^]¥a_a__]a__aaGa¥^
@HWI-EAS443:3:22:587:1494#0/1
CTAATGTCGCGAGTCCCGCACTCGCGAGATACTACTAAGA
+HWI-EAS443:3:22:587:1494#0/1
aaaa]_Zbaaaa^ab]X`]_aaaa``^¥a`[Ua__aaZ_
@HWI-EAS443:3:22:599:1543#0/1
CTCGCGAGATACTACTAAGACCACTGTGGACCATATGGC
+HWI-EAS443:3:22:599:1543#0/1
`_aZaa`_aa_____``_a__`¥_^]]_^^]_]_]_[¥W
@HWI-EAS443:3:22:610:913#0/1
GTCCCGTTTTCGTTTTATTACCAACTACGTCCCCTTGC
+HWI-EAS443:3:22:610:913#0/1
`a]LYa]``^^_QWP`W_¥[W`_¥¥^¥[a`TKWW]XYKZ¥
@HWI-EAS443:3:22:632:88#0/1
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+HWI-EAS443:3:22:632:88#0/1
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@HWI-EAS443:3:22:646:76#0/1
AAAAGAAGTGAAGATCTAATGTCGCGAGTCCCGCACTCGC
+HWI-EAS443:3:22:646:76#0/1
abbaaababbaabaaaa__ab]`aaaaY_____`W]^]_`^
@HWI-EAS443:3:22:688:1516#0/1
GGATTTCTCATTTTGGGCAAAGAAGACAAGAGATATGGCC
+HWI-EAS443:3:22:688:1516#0/1
a_a_`__^_]_aS¥^_aaa_aa^____]`[^_^]V`ZVZ¥X
@HWI-EAS443:3:22:692:856#0/1
GTCCCGTTTTCGTTTTATTACCAACTACGTCCCCTTGC
+HWI-EAS443:3:22:692:856#0/1
a_a`aa^aaaaa_`__`_aa`a`[a^`_^_Y]_]_]V^X
@HWI-EAS443:3:22:699:1164#0/1
ATGATGGCAATGAGATACCCAATTACAGCAGACAAGAGAA
+HWI-EAS443:3:22:699:1164#0/1
aa`]ba`aabaab`]bbbabba`a_aa_``^P^_```_a
@HWI-EAS443:3:22:723:215#0/1
ATTTTACAATCCTGGAGCTCTTCTTTCTTCTTTTGTTA
+HWI-EAS443:3:22:723:215#0/1
¥¥_b_bba]_]`V[XX¥¥_ZPY_WT]`¥_[Za`]SU__

@HWI-EAS443:3:22:745:574#0/1
GGCCCAACAACAAGTACAGTTCATTACCCTAAGGTATATA
+HWI-EAS443:3:22:745:574#0/1
aaaaa`a_aaWb`_Ua¥aa^`_a`_`[_a`[_TNY^`_^
@HWI-EAS443:3:22:75:703#0/1
GAGGTTGCCCGTTAGCACTTCTTCTTTCTTGACTGAT
+HWI-EAS443:3:22:75:703#0/1
_Z^bRaaaaaa^a]aaaaaaa`aaa__`_`a`a_]_`Y_
@HWI-EAS443:3:22:760:26#0/1
AAAAGAAGTCTAATGTCGCAGTCCCGCACTCGC
+HWI-EAS443:3:22:760:26#0/1
aa`aaRWN_WYWTSFHUV^QY_[VWU[_SWGW]YGWUVUW
@HWI-EAS443:3:22:769:1022#0/1
ATCAAACCTTTGGTCAACATCATCATTCTCACTTCTCCTC
+HWI-EAS443:3:22:769:1022#0/1
¥[ba```abbb`_aaa`a_ba``aaabaab`aaabaaaa
@HWI-EAS443:3:22:833:1503#0/1
CCGTAACAAGGTTTCTCCAGTAGCCGCGGAACAGGC
+HWI-EAS443:3:22:833:1503#0/1
___^bbbbbba`[a]bbb```baa`_`baa]`aa^aZ`¥^^
@HWI-EAS443:3:22:838:1043#0/1
AAACGACTTACAGTTCCTGGAAAGGATGCAGGTGCATTGA
+HWI-EAS443:3:22:838:1043#0/1
aaa`_`_`_a`_`[a`a_]`^`_`^`^`^V`_`^]Z^_
@HWI-EAS443:3:22:865:673#0/1
GAGAATAAAGAAGTCTAATGTCGCAGTCCCGC
+HWI-EAS443:3:22:865:673#0/1
a^aVZ¥a`^`[M^^^a¥`^a^`¥_YV`_UX^¥]_RXX[VU
@HWI-EAS443:3:22:890:1548#0/1
AGAAGTCTAATGTCGCAGTCCCGCACTCGCGAG
+HWI-EAS443:3:22:890:1548#0/1
`a`a_a`a_]`^]a`a``aaU]__Z_T`_]__[[YN`^^^U
@HWI-EAS443:3:22:908:402#0/1
GAGAGAATAAAGAAGTCTAATGTCGCAGTCCC
+HWI-EAS443:3:22:908:402#0/1
V_babbababaa]baabbabbbbabbbbZ¥aabb`_`a`
@HWI-EAS443:3:22:937:336#0/1
TGTGCCATGGTATTCTCACAAGAGGATTGCATGATCAAG
+HWI-EAS443:3:22:937:336#0/1
aaU]a`a¥P[_TVJ[XTV___XRFV[VR_¥RYZTP^N_UB
@HWI-EAS443:3:23:1010:250#0/1
AATAAAGAAGTCTAATGTCGCAGTCCCGCACT
+HWI-EAS443:3:23:1010:250#0/1
abbbbbbaababaa_abaa`aa`bb`_`aaaaY_Z^`^¥X]
@HWI-EAS443:3:23:1025:1119#0/1
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+HWI-EAS443:3:23:1025:1119#0/1
ababbb]`]aZ`b`X`¥bb]Y`a`a`a`a`aa`_`a[a`_]`
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CTGTCCTGAGAGGATTTCTCATTTTGGGCAAAGAAGACAA

+HWI-EAS443:3:23:1033:1239#0/1
UXXZ¥WVWR^ab[M^[[V`[] [bb[ZIK[]UaR_bbaZ¥Z
@HWI-EAS443:3:23:1035:1035#0/1
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+HWI-EAS443:3:23:1035:1035#0/1
ab`b`[_V]U]¥Y)`a`aa__`^`^Y_aX_YWU]XaZPX
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+HWI-EAS443:3:23:1061:970#0/1
a`J[bM__ab`b`a]bYba^bbZ`_U`_SYUZ`U]_aY[N
@HWI-EAS443:3:23:1068:1614#0/1
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+HWI-EAS443:3:23:1068:1614#0/1
abbaa`aba`aa___b__a]a_a`[Va`WP[abX_]aaaR
@HWI-EAS443:3:23:1084:1483#0/1
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+HWI-EAS443:3:23:1084:1483#0/1
`bababaabba_ababb`baaa`aa_aa`aa_aa`_`__`
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+HWI-EAS443:3:23:1090:545#0/1
aa`abbabababbbbababbaa_aa]¥Xaa`_VR^WSa[S
@HWI-EAS443:3:23:1113:1632#0/1
AAAAGAAGTCTAATGTCGCAGTCCCGCACTCGC
+HWI-EAS443:3:23:1113:1632#0/1
aab_aaaaaabaa_a[^aaaaa_`__a_¥`N]___Z^] ^U
@HWI-EAS443:3:23:111:434#0/1
GAGTAAGGATGGTGGACATCCTTAGACAGAATCCAACTGA
+HWI-EAS443:3:23:111:434#0/1
aaa`aaaa`a` `[a`aaaaabaa` ``aaaa`a]a` `a`a
@HWI-EAS443:3:23:1124:73#0/1
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+HWI-EAS443:3:23:1124:73#0/1
abbb]`_Wa`baba_bbZaZNXV`_]_¥`S¥Z`_]`aW`_Y
@HWI-EAS443:3:23:1125:1264#0/1
AGGGGACGTAGTGTGGTAATGAAACGAAAACGGGACTCT
+HWI-EAS443:3:23:1125:1264#0/1
^`abaa`aX_b]` `aYa]Z_RRVa^F[WZ^^FW_ZTTXNX
@HWI-EAS443:3:23:114:933#0/1
CTGCTGTAATTGGGTATCTCATTGCCATCATCCACTTCAT
+HWI-EAS443:3:23:114:933#0/1
aaaaaa[]aaaaa^^aaa`aa` `` `aa^^V[`` [¥a___`
@HWI-EAS443:3:23:1155:1357#0/1
CCCGTTTTCGTTTCATTACCAACTACGTCCCCTTGCCC
+HWI-EAS443:3:23:1155:1357#0/1
`_U`_¥_JQaPa`a[`¥YYaa¥a¥a`aPWL]G^`VR^[O_
@HWI-EAS443:3:23:1191:134#0/1
GAATAAAGAAGTCTAATGTCGCAGTCCCGCAC
+HWI-EAS443:3:23:1191:134#0/1
a]LQ[]VSa`PZV]LN[___T_^]Z^ZLWNR[PTWZ]XWQ

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+HWI-EAS443:3:23:1208:1256#0/1
aYO_]b[Yaa_Z_ZX]S¥XR[ZQ¥YX]Z¥S^VX^¥_[YVH
@HWI-EAS443:3:23:1230:2022#0/1
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+HWI-EAS443:3:23:1230:2022#0/1
a`a_ab`aaaa`aa]aa`a]aa_____a]_N]V]XY[W[
@HWI-EAS443:3:23:1276:1378#0/1
TGAAGGGTATGAAGAATTCACAATGGTTGGGAGAAGAGCA
+HWI-EAS443:3:23:1276:1378#0/1
ab^P^]]XaabZ[_`aa`b]`Y[a[_aa`XS[]]¥_GVDV
@HWI-EAS443:3:23:1298:558#0/1
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+HWI-EAS443:3:23:1298:558#0/1
R[`Za^¥W¥¥`[^¥`^a_]JY]ZR]]ZWGY_]`TQO¥VYS
@HWI-EAS443:3:23:1312:1348#0/1
AGGCAATAATTGTGGCCATGGTATTCTCACAAGAGGATTG
+HWI-EAS443:3:23:1312:1348#0/1
aaabab``aaa`_YW]_YVUY_^R]YYZ`][L]a[X]U
@HWI-EAS443:3:23:131:192#0/1
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+HWI-EAS443:3:23:131:192#0/1
aZb`aaaa^^¥_aa_aaaa`a^¥aZ¥`ZZ^_`WT^[`Y^
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+HWI-EAS443:3:23:1321:1875#0/1
]aa^aaaa`aXa^_aa_aa¥a_]a_W_a_ZZ^Y¥_]W[
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+HWI-EAS443:3:23:1346:1617#0/1
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@HWI-EAS443:3:23:1371:915#0/1
AGAAGTCTAATGTCGAGTCCCCGACTCGCGAG
+HWI-EAS443:3:23:1371:915#0/1
`a`ba_bbbba_aaaaab___a^bZ¥¥`^^^_]S¥a_^
@HWI-EAS443:3:23:1384:660#0/1
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+HWI-EAS443:3:23:1384:660#0/1
abaaaaaaaa`a`aa`^^^___G]X`^`a^W[]]_W__^UZ
@HWI-EAS443:3:23:1401:1576#0/1
CGCTGGTTTGCCTATTGACAAAGTTCAGATCGCCCCTAA
+HWI-EAS443:3:23:1401:1576#0/1
_[U_a]T_P`¥^]]`b`]¥[__Y_]_^aUX_X¥[Z¥_W
@HWI-EAS443:3:23:1430:235#0/1
CTCGGAGATACTACTAAGACCACTGTGGACCATATGGC
+HWI-EAS443:3:23:1430:235#0/1
ababbbabbaaaa]a¥aaaa`^_a`a_]a`a^_U``a`_¥
@HWI-EAS443:3:23:1464:851#0/1
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@HWI-EAS443:3:23:311:381#0/1
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+HWI-EAS443:3:23:311:381#0/1
`¥¥_aUa_`¥`babbbbaababX`baaa]]b_abWaa`]^
@HWI-EAS443:3:23:353:665#0/1
GCTAATGTGCTAATTGGGCAAGGGGACGTAGTGTGGTAA
+HWI-EAS443:3:23:353:665#0/1
aaa_`aba`]^b]b_XVbaa0X`aZF_aGX[Q^Y___NGa
@HWI-EAS443:3:23:358:1715#0/1
CACTTCTCCTCCTGGAGTGACATCTGCTCCCAGCACGTC
+HWI-EAS443:3:23:358:1715#0/1
ababX¥`bbbaabaa_U`abaaaa`aa_aaaaQXaa¥YX
@HWI-EAS443:3:23:364:967#0/1
CTTCCTGATGTGACTTTTTGATTATGGCCATATGGTCCA
+HWI-EAS443:3:23:364:967#0/1
abbbbababba`aaabbaabb]babaa`aaaXa`Ya`_`a
@HWI-EAS443:3:23:392:87#0/1
GCCCTGAGTCAGTGCTAGTCAACACTTATCAATGGATAAT
+HWI-EAS443:3:23:392:87#0/1
abaabbbb`aaa_aaa__^`a_a_aa^a`__aa`_`_`__
@HWI-EAS443:3:23:39:373#0/1
ATCCGCTTGCTTTTTGAAAGTGAACCCACCAAAACTGAA
+HWI-EAS443:3:23:39:373#0/1
aaaaaaaa[[_¥`aaa_a`X_] [T^U^_____W^^]^
@HWI-EAS443:3:23:464:1855#0/1
GTCTTCTTTGCCAAAATGAGAAATCCTCTCAGGACAGCA
+HWI-EAS443:3:23:464:1855#0/1
^X[`]XZZV`_Y`aU¥_Q_]V[^]VZX[[VXX^XY`_Za
@HWI-EAS443:3:23:487:72#0/1
CGTTTTCGTTTCATTACCAACTACGTCCCCTTGCCCAA
+HWI-EAS443:3:23:487:72#0/1
`b`aaaab`aa`_aa¥`a`_a`_a__Y^^Z^Z_]`]]^X
@HWI-EAS443:3:23:48:212#0/1
TGAAGGCACATCTGGGGTGGAGTCTGCTGCTCCTGAGAGGA
+HWI-EAS443:3:23:48:212#0/1
aaaa_bba`_a`_`aaY¥a`ZZU__a`a[ZZ_^`]`_W__
@HWI-EAS443:3:23:514:1031#0/1
CATCTGCTCCCAGCACGTCCCTTGGGTTAAGTGCAACACT
+HWI-EAS443:3:23:514:1031#0/1
[Y^aaba[]X`0D¥V[aV_`[Q_a`YJSa`aY_Ta]H_ZR
@HWI-EAS443:3:23:524:583#0/1
GAATAAAAGAACTGAGAGATCTAATGTCGCAGTCCCGCAC
+HWI-EAS443:3:23:524:583#0/1
]¥I[¥`bU^^W`_QTU`abaabab[bX`]aa`_Y^[KV^
@HWI-EAS443:3:23:52:70#0/1
ACCTTGTTTTACGGACCAATTCTCTTTCTAGCATGTACGC
+HWI-EAS443:3:23:52:70#0/1
aaaaabY]a`a`aa`_`X`aa`_a¥`_`__^`__WUW_]`
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TGGTATTCTACAAGAGGATTGCATGATCAAGGCAGTTAG

+HWI-EAS443:3:23:978:787#0/1
abYaa`aa_aaa_____`a^`_`_`a[_]_]a_[aW¥_a^_
@HWI-EAS443:3:23:993:1236#0/1
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+HWI-EAS443:3:23:993:1236#0/1
`bababVaaaa_X]a^I`^`N]`PR`_`YY`aaY_aH[
@HWI-EAS443:3:24:1043:1055#0/1
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+HWI-EAS443:3:24:1043:1055#0/1
aabbbb`a`b_abaa`a_____a`_`aa^aa¥[]a`_ZZa
@HWI-EAS443:3:24:1046:944#0/1
CCCGCACTCAGAATGAAGTGGATGATGGCAATGAGATACC
+HWI-EAS443:3:24:1046:944#0/1
abbbabbbbbb`bbba`baabaabaaaaaaaaabba`aa¥`
@HWI-EAS443:3:24:1055:1369#0/1
CAACTCTCCTTATTTTAACTTGATTTCTGAAGTGGAC
+HWI-EAS443:3:24:1055:1369#0/1
a`Yaa`aaaaaaaa`_]`X`aa_aaa__`a`a`a`_Ya_`¥
@HWI-EAS443:3:24:1068:1218#0/1
CGATCTGAACTTTGTCAATAGGGCAAACCAGCGACTGAAC
+HWI-EAS443:3:24:1068:1218#0/1
]bb^Yab`bVbb_^^^]_^¥WZ__`Y`_W^VPZZF[aa`U
@HWI-EAS443:3:24:107:695#0/1
GAGTAAGGATGGTGGACATCCTTAGACAGAATCCAACCTGA
+HWI-EAS443:3:24:107:695#0/1
VH_a[`b^`^a`_W[_ba`abba`b_X^_aa_b]T¥_a_]`
@HWI-EAS443:3:24:1093:50#0/1
TCCCTCTTTGATCTCTAACCCCTTAAAAATCGGTCAACT
+HWI-EAS443:3:24:1093:50#0/1
aaaa_`_`_a^aa_]`^aZ¥[_`_]_^_^¥_^Z[^_^]Z_
@HWI-EAS443:3:24:1094:1130#0/1
GGTGGAGTCTGCTGTCTGAGAGATTCTCATTGTTGGGC
+HWI-EAS443:3:24:1094:1130#0/1
aa¥aaabTa_aa^a¥_`_a¥_¥`_____a_^¥_¥a^^_[]`
@HWI-EAS443:3:24:1104:1503#0/1
AAAGAAGTGGAGATCTAATGTCGAGTCCCGCACTCGCG
+HWI-EAS443:3:24:1104:1503#0/1
abb^aaaaababaaa`aaaab_a`^`]YT_a¥`¥[_Z^__
@HWI-EAS443:3:24:1128:1025#0/1
CTGCTCCCAGCACGTCCCTTGGGTTAAGTGCAACACTTCA
+HWI-EAS443:3:24:1128:1025#0/1
ab_bab]Zbbbbaa_aaaS_M_a]^¥^^Za`_aaaYaa_]`
@HWI-EAS443:3:24:1132:1614#0/1
ATCTAATGTCGAGTCCCGCACTCGCGAGATACTCACTAA
+HWI-EAS443:3:24:1132:1614#0/1
ababaaab[]baaa__`_`¥[[]aaa_a`__a__V_S_`a
@HWI-EAS443:3:24:1157:978#0/1
CAGTGGTCTTAGTGAGTATCTCGCGAGTGGGGACTGCGA
+HWI-EAS443:3:24:1157:978#0/1
abbaab`bbb`aaaba`abaa_aaa]_Ya[aa`^Uaa_]`

@HWI-EAS443:3:24:1163:821#0/1
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+HWI-EAS443:3:24:1163:821#0/1
_`aa`Z¥a__Y]]Z_¥VabV[a_QYO¥]^`aZVVLXJ
@HWI-EAS443:3:24:1176:875#0/1
CGCACTCGCGAGATACTCACTAAGACCACTGTGGACCATA
+HWI-EAS443:3:24:1176:875#0/1
abbbbabbbb`bbbaabaaaabb_aabbabbaaaaaaaaa
@HWI-EAS443:3:24:122:1581#0/1
GCCCGTTAGCACTTCTTCTTTCTTGACTGATGATCCG
+HWI-EAS443:3:24:122:1581#0/1
aa`a`^Z^`a`a`a`aa`a``_`^a__aa`aaa_¥_Z_`]
@HWI-EAS443:3:24:1234:527#0/1
GAATAAAAGAACTGAGAGATCTAATGTCGCAGTCCCGCAC
+HWI-EAS443:3:24:1234:527#0/1
`bb__aS¥`[UU_aaaaa]]`a]__ZH`YP]ZNH`_[^N
@HWI-EAS443:3:24:1261:757#0/1
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+HWI-EAS443:3:24:1261:757#0/1
aabbbbbbbZbbabab`bb]aababab_`a`a_b_a]
@HWI-EAS443:3:24:1327:848#0/1
TGGATCAATCTCCTGGTTGCCTTTCTGAGAATAGCTGTTG
+HWI-EAS443:3:24:1327:848#0/1
abbbbabbbb¥abbabba__a`^]aaaaabaaaa```S¥]
@HWI-EAS443:3:24:1330:1268#0/1
CTGTAATTGGGTATCTCATTGCCATCATCCACTTCATTCT
+HWI-EAS443:3:24:1330:1268#0/1
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@HWI-EAS443:3:24:1348:532#0/1
GTCCCGTTTTCGTTTTATTACCAACTACGTCCCTTGC
+HWI-EAS443:3:24:1348:532#0/1
aaaaaa_aaa_a`aa_aaaa_`^a`^a```^`^]_^_`^VNU
@HWI-EAS443:3:24:136:313#0/1
AAAAGAACTGAGAGATCTAATGTCGCAGTCCCGCACTCGC
+HWI-EAS443:3:24:136:313#0/1
a_bba¥abaa`aaaa`aaaa[aaa``Za`a]a_a^`__
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AAAGAACTGAGAGATCTAATGTCGCAGTCCCGCACTCGCG
+HWI-EAS443:3:24:1371:444#0/1
aa^b`aQbabab[^_U`a¥aaZ]`Z__Z_Y]Q¥^N_TV¥_
@HWI-EAS443:3:24:1377:1269#0/1
GAGGATCAGGGTTGAGGATACTGGTAAGAGGCAATTCTCC
+HWI-EAS443:3:24:1377:1269#0/1
a`a`a``aa_a_a`aaa_^]W`__]_^¥^X`WZY__W]YX
@HWI-EAS443:3:24:1396:1894#0/1
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+HWI-EAS443:3:24:1396:1894#0/1
_babaa_baaaaab`aab¥baa``baab`U__baG`[UV
@HWI-EAS443:3:24:1414:240#0/1
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+HWI-EAS443:3:24:1414:240#0/1
ab`bb`_abbbaaHaa^aT`a`a]]`_][__ZW^]]`YX^_
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+HWI-EAS443:3:24:1418:868#0/1
aaaabbbb_aa^^`^b_babZZ`a^a]P^_]a¥XV_UW
@HWI-EAS443:3:24:1420:769#0/1
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+HWI-EAS443:3:24:1420:769#0/1
aa]ZUa]a`b_Z`a_`^a__`¥`V^`¥`¥^a_[^S]UW[U
@HWI-EAS443:3:24:1437:1726#0/1
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+HWI-EAS443:3:24:1437:1726#0/1
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+HWI-EAS443:3:24:1438:551#0/1
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@HWI-EAS443:3:24:1452:1694#0/1
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+HWI-EAS443:3:24:1452:1694#0/1
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a]_aa^SSWa`YY[aa`aa`___`aa_a]]_[^^a^^^_
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+HWI-EAS443:3:24:1520:14#0/1
]a^a¥`a`a`a`aa]]`a`X`^^^ab_baZa^¥_a¥a_
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+HWI-EAS443:3:24:1541:1263#0/1
aaaT¥]^`aa_W_¥`[¥QX^Z¥^Y_T[^`G^T[INRV
@HWI-EAS443:3:24:1582:472#0/1
GTCCCGTTTTTCGTTTCATTACCAACTACTGCCCTTGC
+HWI-EAS443:3:24:1582:472#0/1
a`a`ababba^b`a`bbab__a`_a_aa_a_Y_]`^^_Y
@HWI-EAS443:3:24:159:805#0/1
AAAAGAAGACTGAGAGATCTAATGTCGCAGTCCCGCACTCGC
+HWI-EAS443:3:24:159:805#0/1
abb_^`aaaaaaaaaaaaa`aa^a_a_a^`_a^aX^^`^`
@HWI-EAS443:3:24:1666:1044#0/1
GTCCCGTTTTTCGTTTCATTACCAACTACTGCCCTTGC
+HWI-EAS443:3:24:1666:1044#0/1
abaaabababababb`bbaa_aa]a`aa_]`_]`_`_X
@HWI-EAS443:3:24:1690:824#0/1
AAAGAAGACTGAGAGATCTAATGTCGCAGTCCCGCACTCGCG
+HWI-EAS443:3:24:1690:824#0/1
aba_^`bab^bbaa`b_b__^a`aaWN]_Z`_Y_UU^a

@HWI-EAS443:3:24:1711:1472#0/1
ATTGTCGATGGATTCAATCCCCAGTTCTGGAAAAGCACT
+HWI-EAS443:3:24:1711:1472#0/1
abbaaaabababbaGaYW`MX]X[]_a_aa]]^`_aT]J^
@HWI-EAS443:3:24:1734:983#0/1
CTCTCTGGAATCATGTCCATTATTCTTGTCTGCTGTAA
+HWI-EAS443:3:24:1734:983#0/1
``V_aabb]ba__bb]`aabaaba^b[bbb_T_bJa_aY_
@HWI-EAS443:3:24:1753:931#0/1
AAAAGAAGTCTGAGATCTAATGTCGCAGTCCCCGCACTCGC
+HWI-EAS443:3:24:1753:931#0/1
JWbaa`V`U`b]b]^Mbaba`b[aaUbIH[bb¥¥bS[bZ
@HWI-EAS443:3:24:1761:467#0/1
AAAAGAAGTCTGAGATCTAATGTCGCAGTCCCCGCACTCGC
+HWI-EAS443:3:24:1761:467#0/1
ababbabaab`bbaaaSaaaab_a__`a]ZUZa`X_]aU
@HWI-EAS443:3:24:177:1075#0/1
GTCCCGTTTTTCGTTTCATTACCAACTACGTCCCCTTGC
+HWI-EAS443:3:24:177:1075#0/1
aaba]bZaaabbUa^aaaaa````a_aa`_^`_]`_^[X
@HWI-EAS443:3:24:1783:1177#0/1
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+HWI-EAS443:3:24:1783:1177#0/1
a]X__`^aVaa`X¥aaSN^`]Uaa^aaababaP¥K`^^aY
@HWI-EAS443:3:24:185:222#0/1
CCTGATGTGTACTTTTTGATTATGGCCATATGGTCCACAG
+HWI-EAS443:3:24:185:222#0/1
aaZ]SaaRSI`^`OSQa`_____]NU`^_X[VMXGYXLU¥M
@HWI-EAS443:3:24:186:84#0/1
TTGGGTATCTCATTGCCATCATCCACTTCATTCTGAGTGC
+HWI-EAS443:3:24:186:84#0/1
abbba`aaaa`ab_]_aa`_a_aaa`aa]]_a¥`_]_W_Z
@HWI-EAS443:3:24:194:587#0/1
CCCGTTTTTCGTTTCATTACCAACTACGTCCCCTTGGCC
+HWI-EAS443:3:24:194:587#0/1
ababaabbabaaabba`ba`a`]aaa_aa_aaaa_^`_]a
@HWI-EAS443:3:24:229:108#0/1
ATCTAATGTCGCAGTCCCCGCACTCGCGAGATACTCACTAA
+HWI-EAS443:3:24:229:108#0/1
abb`_Q___aaa]a_a`a`aY_X`__¥H^^[_¥^XVP^U^
@HWI-EAS443:3:24:270:570#0/1
GATGAAGGCACATCTGGGTGGAGTCTGCTGTCCCTGAGAG
+HWI-EAS443:3:24:270:570#0/1
_babaabbbbaaaaa`abaZZaaa_aaaaa__``aa[a_a
@HWI-EAS443:3:24:284:385#0/1
GAATGAAGTGGATGATGGCAATGAGATACCCAATTACAGC
+HWI-EAS443:3:24:284:385#0/1
a]Vbba_a]aY^`a`_`a__]_aaa_^a^a]a__]_]a^_
@HWI-EAS443:3:24:288:229#0/1
TAAAAGAAGTCTGAGATCTAATGTCGCAGTCCCCGCACTCG

+HWI-EAS443:3:24:288:229#0/1
¥a^¥Za` `b[bb^`^aabb_aaXT]^aZR`aaX[L_Y]W
@HWI-EAS443:3:24:340:937#0/1
AAAAGAAGTCTAATGTCGAGTCCCCGACTCGC
+HWI-EAS443:3:24:340:937#0/1
aabbbaaaababaaaaa`ab^b`aa_X` ``_aaa]^`__
@HWI-EAS443:3:24:349:208#0/1
AAAGAAGTCTAATGTCGAGTCCCCGACTCGCG
+HWI-EAS443:3:24:349:208#0/1
_b`Wabb¥]]`¥^a``a``a`aaaa¥V` ``[_R[RX[ZU
@HWI-EAS443:3:24:371:1836#0/1
GTCCCGTTTTCGTTTCATTACCAACTACGTCCCCTTGC
+HWI-EAS443:3:24:371:1836#0/1
aUbb_^]`aaZY__`ba_b_````a_ab_S_```_]a
@HWI-EAS443:3:24:393:1272#0/1
GCGGGATGTGCTTGGGACATTTGACTGTCCAAATAATA
+HWI-EAS443:3:24:393:1272#0/1
^bbaa]]^Zaa`a`aa[aaaaaa¥_aa` `Xa_`a`_`a`a
@HWI-EAS443:3:24:423:1892#0/1
GGCGATCTGAACCTTGTCAATAGGGCAAACCGACTGA
+HWI-EAS443:3:24:423:1892#0/1
YYba^ab__aW[[a_W_babUQT[]_Z_VP]¥PJ_ZLYV]
@HWI-EAS443:3:24:430:132#0/1
CCGCACTCAGAATGAAGTGGATGATGGCAATGAGATACCC
+HWI-EAS443:3:24:430:132#0/1
abaa_S_``a`aba]bbSbbb¥aaS` `a`Z^baaY[a^QX
@HWI-EAS443:3:24:433:862#0/1
AAAAGAAGTCTAATGTCGAGTCCCCGACTCGC
+HWI-EAS443:3:24:433:862#0/1
abbbababbbb`bbbaabbbababaaaa`abbaaa]a`_
@HWI-EAS443:3:24:472:1724#0/1
AAAAGAAGTCTAATGTCGAGTCCCCGACTCGC
+HWI-EAS443:3:24:472:1724#0/1
abaaa` `b_a`]aVa^YaaaaaXaZ^`UU____^[a]YG^
@HWI-EAS443:3:24:484:1993#0/1
AGAGAATAAAAGAAGTCTAATGTCGAGTCCCCG
+HWI-EAS443:3:24:484:1993#0/1
aa`T_ba`b`baZa_a`aU^ab^aaaaa`Q`a`b_Y_Z_X
@HWI-EAS443:3:24:48:1860#0/1
CCCGTTTTCGTTTCATTACCAACTACGTCCCCTTGGCC
+HWI-EAS443:3:24:48:1860#0/1
``a__bbabbbbbbbbbbbbbbbbbbb`abb__aa``
@HWI-EAS443:3:24:523:595#0/1
CTGCTGTCTGAGAGGATTTCTATTTTGGGCAAAGAAGA
+HWI-EAS443:3:24:523:595#0/1
aaababab`ababbabaaa_aaabbaa`baa_[babbbba
@HWI-EAS443:3:24:541:1347#0/1
GGGTATCTCATTGCCATCATCCACTTCTGAGTGCGG
+HWI-EAS443:3:24:541:1347#0/1
aS¥Haaaa``aa_]`]aaaa_a` `a_[aa_^` `XaX__

@HWI-EAS443:3:24:557:297#0/1
CACTCGCGAGATACTCACTAAGACCACTGTGGACCATATG
+HWI-EAS443:3:24:557:297#0/1
ZY`^_PT¥[R^RW¥Za`^YVVZ`^U^NXF]OXYSWHS]_
@HWI-EAS443:3:24:560:276#0/1
CTGATGTGACTTTTTGATTATGGCCATATGGTCCACAGT
+HWI-EAS443:3:24:560:276#0/1
aabbabababbbbbbabbbaaba`a]]`_aa[^P
@HWI-EAS443:3:24:623:1271#0/1
GGCAAGGGGACGTAGTGTGGTAATGAAACGAAAACGGGA
+HWI-EAS443:3:24:623:1271#0/1
]abbbbabaaab]ab`a_abaW`^`¥ba``aUa`_a`]
@HWI-EAS443:3:24:624:83#0/1
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+HWI-EAS443:3:24:624:83#0/1
aX`VsaoDXYS^]_XUXTVWNP^UXBBBBBBBBBBBBBB
@HWI-EAS443:3:24:638:431#0/1
ATCAAGGGAGCAATTTTACAATCCTGGAGCTCTTCTTCT
+HWI-EAS443:3:24:638:431#0/1
aaa^W_b]a¥bbVbba^a`_`^U`¥¥a`YY`a`_`^`Wa
@HWI-EAS443:3:24:664:1620#0/1
CGCACTCAGAATGAAGTGGATGATGGCAATGAGATACCCA
+HWI-EAS443:3:24:664:1620#0/1
ababbbbababbababbaabbaaa`abbbbaa`ba`_b
@HWI-EAS443:3:24:673:658#0/1
GTACTTTTTGATTATGGCCATATGGTCCACAGTGGTCTTA
+HWI-EAS443:3:24:673:658#0/1
aP[Ya_a`aa`_Wa¥Y¥aY[FWU]YR_a^_]Y`aZW^^X
@HWI-EAS443:3:24:678:118#0/1
AATAAAAGAACTGAGAGATCTAATGTCGCAGTCCCGCACT
+HWI-EAS443:3:24:678:118#0/1
`bbbaabbaabaaa^a`a`aa_aa`_a__a]^^^_]Y
@HWI-EAS443:3:24:68:633#0/1
ATCAACTCTCCTTATTTTAACTTGATTTCTGAAGTGG
+HWI-EAS443:3:24:68:633#0/1
abaaab``aaaaaaaaaaaa`a`a`a^__a`^^^`_]Y
@HWI-EAS443:3:24:71:910#0/1
GAATAAAAGAACTGAGAGATCTAATGTCGCAGTCCCGCAC
+HWI-EAS443:3:24:71:910#0/1
`^W[a^_a`^`^`aaaS_Z[a`^aaaYYY_K^Z]U]¥¥R[
@HWI-EAS443:3:24:728:424#0/1
TGGCAATGAGATACCCAATTACAGCAGACAAGAGAATAAT
+HWI-EAS443:3:24:728:424#0/1
aaaabbbb_a`¥`a_aaaa`aaa`aaa`]aQa]b`_`aa`
@HWI-EAS443:3:24:729:1896#0/1
TGCTGTAATTGGGTATCTCATTGCCATCATCCACTTCATT
+HWI-EAS443:3:24:729:1896#0/1
`]Y`U[S`a^U]XQPR`X`_PZaa`X[PZPZRV]R[ZU
@HWI-EAS443:3:24:738:918#0/1
GGTTCACCTTTCAAAGGACAAGCGGATCATCAGTCAAGAA

+HWI-EAS443:3:24:738:918#0/1
aV`bab`_ab_Y`baab¥aaaaaa^_aa^^`¥ZW_`____
@HWI-EAS443:3:24:750:1102#0/1
CAGTCCCCTCGACTCGCGAGATACTACTAAGACCACTGTGG
+HWI-EAS443:3:24:750:1102#0/1
`aa`bbbababba`bbabab``aaabab^`````a``[XZa
@HWI-EAS443:3:24:781:1652#0/1
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+HWI-EAS443:3:24:781:1652#0/1
a`aa`baa``[UWNT][_]XS^`NRV`TXS_ZKS`SJPPS
@HWI-EAS443:3:24:784:1920#0/1
CGTAAAACAAGTTTCTCCCAGTAGCCGGCGAACAGGCA
+HWI-EAS443:3:24:784:1920#0/1
[[U`_abV`b`Uba`bb¥]L¥b`aaa_b__[V¥baaPJSb
@HWI-EAS443:3:24:78:1188#0/1
GAATAAAGAAGACTGAGAGATCTAATGTTCGCAGTCCCAC
+HWI-EAS443:3:24:78:1188#0/1
aaaaba]a_aa^[ba_aaa]aaYS¥a]a_a^[U____[^__
@HWI-EAS443:3:24:816:1301#0/1
CAATCCCCAGTTCTGGAAAAGCACTTTTGCATCTTTTTG
+HWI-EAS443:3:24:816:1301#0/1
T¥baZa^`b`````b`_b``aab_abbabb_ab¥a¥bbaa`
@HWI-EAS443:3:24:820:588#0/1
AATAAAGAAGACTGAGAGATCTAATGTTCGCAGTCCCAC
+HWI-EAS443:3:24:820:588#0/1
__a`a`ab``]_bbaaabaaba`^aa^``¥a¥a`a^^`
@HWI-EAS443:3:24:840:1297#0/1
CCCGTTTTCGTTTCATTACCAACTACGTCCCCTTGCCC
+HWI-EAS443:3:24:840:1297#0/1
`a[RJ[Pa_[R`][^[[[_]NL]^W[^ZP[]Y_RNVVYB
@HWI-EAS443:3:24:860:1215#0/1
TACGGACCAATTCTTTCTAGCATGTACGCCACCATCAA
+HWI-EAS443:3:24:860:1215#0/1
Z`R¥aZV^_RYQ¥¥Q^YZ__YOY]X`Y^`Y`a]VUVa`]
@HWI-EAS443:3:24:909:739#0/1
AAGAAGTGAAGTCGTTTGGTTGCCTTGTTGTAATTGAAT
+HWI-EAS443:3:24:909:739#0/1
aaabaabaab`babaaaab__aba`aaaaab_b``_a`aa
@HWI-EAS443:3:24:993:1757#0/1
GGGCCATTCTATTCCACCATGTTACGGCCAGAGGTGATA
+HWI-EAS443:3:24:993:1757#0/1
^ba`T`a]_b__b^aaaaaaa`^abaaa^T`¥S]VLU]VY
@HWI-EAS443:3:25:1013:1031#0/1
AAAGAAGTGAAGTCTAATGTTCGCAGTCCCACCTCGCG
+HWI-EAS443:3:25:1013:1031#0/1
abbb[baa`abbaaabaaba`_`abaa¥_a_aa[`¥a_`^`
@HWI-EAS443:3:25:1033:1820#0/1
GGCCATGGTATTCTCACAAAGAGATTGCATGATCAAGGCA
+HWI-EAS443:3:25:1033:1820#0/1
_`b^a_a^U`Y`¥V^¥W_Z[[_aYWW][YT__U__]¥UYW

@HWI-EAS443:3:25:1060:295#0/1
CGCGAGATACTCACTAAGACCACTGTGGACCATATGGCCA
+HWI-EAS443:3:25:1060:295#0/1
a`bbb`ba^__bb`bbbbb_¥aabbbaa^^]_aaa``a[^`
@HWI-EAS443:3:25:106:968#0/1
CCCCAAATGAGAAATCCTCTCAGGACAGCAGACTCCACCC
+HWI-EAS443:3:25:106:968#0/1
abbbba`bb¥_U^`a``ababaa]_ab]b_aaa_aaaa^a
@HWI-EAS443:3:25:1090:939#0/1
AGGGGACGTAGTGTGGTAATGAAACGAAAACGGGACTCT
+HWI-EAS443:3:25:1090:939#0/1
abbbb[bbaba_bbbb`X^aa_aa`^`^abb]^`aaa`_`
@HWI-EAS443:3:25:1119:839#0/1
GAACTGAGAGATCTAATGTGCGAGTCCCGCACTCGCGAGA
+HWI-EAS443:3:25:1119:839#0/1
`]^`HZa`YS[¥_VX¥]a`ZVNV]QN^YQNYVT¥XU¥_VZT
@HWI-EAS443:3:25:112:1880#0/1
GGCGGAACAGGCAGTGTATATTGAAGTGTGCACTTAA
+HWI-EAS443:3:25:112:1880#0/1
^aa__`a^aX]b]^X]Ia¥UZV]aJZ`OFSV]DDEO¥¥`_
@HWI-EAS443:3:25:1132:1201#0/1
TGCTAACGGGCAACCTCCAAACACTGAAAATAAGAGTACA
+HWI-EAS443:3:25:1132:1201#0/1
abaaba`aaa`Z^_a`a`a`_a`_a`^`^^`^^`^`Xa^^
@HWI-EAS443:3:25:1138:1399#0/1
CAATTACAGCAGACAAGAGAATAATGGACATGATTCCAGA
+HWI-EAS443:3:25:1138:1399#0/1
^Ubbbabba``ab`a¥¥`^`b`¥`Sa``abaa_]`]Wa¥
@HWI-EAS443:3:25:1138:1860#0/1
CTGTAATTGGGTATCTCATTGCCATCATCCACTTCATTCT
+HWI-EAS443:3:25:1138:1860#0/1
ab_OR¥``_URT¥¥b`ab_baba`aab^`W¥T^`V`a¥Z[
@HWI-EAS443:3:25:115:1057#0/1
GTCCCCTTTTCGTTTCATTACCAACTACGTCCCCTTGC
+HWI-EAS443:3:25:115:1057#0/1
aS`W`a0^`_`VaU^^^^`_^ZQPVVZUTY]VGMZVYRUU[
@HWI-EAS443:3:25:1196:1735#0/1
ATCTAATGTCGAGTCCCGCACTCGCGAGATACTCACTAA
+HWI-EAS443:3:25:1196:1735#0/1
a¥[_ba`]NOY_a¥FZQUPYT_YXNVXJZQMWRNVTLQX[
@HWI-EAS443:3:25:1208:1424#0/1
CAAACCTTTGGTCAACATCATCATTCTCACTTCTCCTCCT
+HWI-EAS443:3:25:1208:1424#0/1
aabbababab`b`__babb``baaaabbaaa`abaaa`a_
@HWI-EAS443:3:25:1228:1241#0/1
TCCCCTTTTCGTTTCATTACCAACTACGTCCCCTTGCC
+HWI-EAS443:3:25:1228:1241#0/1
aaa`a`aa`¥`_`aaaaaaaa_aa^a`_`___]_^_¥^^]_]`
@HWI-EAS443:3:25:1257:1096#0/1
AGTGTCAAATGTCCCAAGCACATCCCGCATTTGCTGGAAC

+HWI-EAS443:3:25:1257:1096#0/1
a]bbbbba`bbbabbbbab`abb`bbbbbbbababaaa
@HWI-EAS443:3:25:1274:575#0/1
GAGATACCCAATTACAGCAGACAAGAGAATAATGGACATG
+HWI-EAS443:3:25:1274:575#0/1
a¥`W`^^`Ya_aa___a_V` ``¥Xa__Z0]^S`Y_X]]X
@HWI-EAS443:3:25:1325:1452#0/1
CAGAATGAAGTGGATGATGGCAATGAGATACCCAATTACA
+HWI-EAS443:3:25:1325:1452#0/1
_`abbbb`aaabbbbbbbbabbbabbbabb`bbabb_b
@HWI-EAS443:3:25:1465:1342#0/1
ATCCAGATGAAGGCACATCTGGGGTGGAGTCTGCTGCCT
+HWI-EAS443:3:25:1465:1342#0/1
^`bbbbba_`babbbabbabba]__a`a[aaaaa[```
@HWI-EAS443:3:25:1480:521#0/1
CATTGTGGGATCTTGTGACCATTGAATTTTCACAATTTCC
+HWI-EAS443:3:25:1480:521#0/1
abbbbbba` `bbbbbbb_abb^bbbabbb^babbb`¥
@HWI-EAS443:3:25:1483:429#0/1
TGGAAATGTGCCACAGCACAGATTGGAGGAGTAAGGAT
+HWI-EAS443:3:25:1483:429#0/1
`bbbaX`aR¥^_b`^Zaaa_¥_aUY]H]_aXSYR[T_]^[
@HWI-EAS443:3:25:1547:107#0/1
CGCACTCGCGAGATACTACTAAGACCACTGTGGACCATA
+HWI-EAS443:3:25:1547:107#0/1
]bK`bb_ababbbba^bK[bb_a` `¥`aaba]aba]V_ab
@HWI-EAS443:3:25:1599:681#0/1
CCGCTTGTCTTTTGAAGTGAACCCACCAAACTGAAAG
+HWI-EAS443:3:25:1599:681#0/1
a]`bbbbbaabbbbbbbabaaabaaabWbbba`bbbbba
@HWI-EAS443:3:25:1661:241#0/1
CAGGTGCATTGACTGAAGATCCAGATGAAGGCACATCTGG
+HWI-EAS443:3:25:1661:241#0/1
ab¥¥b`babbbb`ababbabaabababb_ab^bZab^bb]
@HWI-EAS443:3:25:168:777#0/1
CCATTATTCTTGTCTGCTGTAATTGGGTATCTCATTGC
+HWI-EAS443:3:25:168:777#0/1
aUabbbbbbbbbbbabbabba`^aba^bb^`ba`aaa`Xa
@HWI-EAS443:3:25:1697:1350#0/1
CAATTACAACAAGGCAACCAACGACTTACAGTTCTTGGA
+HWI-EAS443:3:25:1697:1350#0/1
aa_` `bb`aaV[VX^bb`ZXS^ab`bbbab¥bR]¥`S^^_
@HWI-EAS443:3:25:174:55#0/1
AGAATGAAGTGGATGATGGCAATGAGATACCCAATTACAG
+HWI-EAS443:3:25:174:55#0/1
aba`baaaa]b_aaaa_aa_` `aa`a__a^_a_W`]__`a
@HWI-EAS443:3:25:1773:1334#0/1
AGAATGAAGTGGATGATGGCAATGAGATACCCAATTACAG
+HWI-EAS443:3:25:1773:1334#0/1
Y]`bbbb^_bbbbba`¥b¥aabbbba`__¥_ab]b`a^b

+HWI-EAS443:3:25:342:698#0/1
abbaa_^^aaa^aaaaaaaaa_Z_aaZ^a`^¥T¥__R¥
@HWI-EAS443:3:25:387:1169#0/1
CTCGGTCTGATCCAGCATCGTTTGTTCCTCCAGAGGGT
+HWI-EAS443:3:25:387:1169#0/1
aabba^aa]baababb¥`b`aaa_aaa^]_^a_a`a__W
@HWI-EAS443:3:25:400:610#0/1
CAACCCTGATCCTCTCACATTACAGTCAATGAGGAAAAT
+HWI-EAS443:3:25:400:610#0/1
abbba_bbbabbbbbbbbbbaaba`b`abab_bbaW_b
@HWI-EAS443:3:25:419:712#0/1
GGAAAAGCACTTTTGCATCTTTTTGGAAATGCCTCAAGAG
+HWI-EAS443:3:25:419:712#0/1
aa]a]ON]UFNPJLTZ[YaQVZ^R[_]TS[_Y]V_^V]X]
@HWI-EAS443:3:25:428:649#0/1
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+HWI-EAS443:3:25:428:649#0/1
_`^`aaaaYa__¥a`_[[aXa`¥NWX`¥S]¥V¥a___ZZV
@HWI-EAS443:3:25:485:259#0/1
GAAATGGTTCAAATTCATTTTGTGTATAACATTGTGGG
+HWI-EAS443:3:25:485:259#0/1
a_a¥`^`][`_`¥¥^¥¥____¥[^a^____ZTX_¥_[]Y]
@HWI-EAS443:3:25:53:1275#0/1
CCCCTTTTCGTTTCATTACCAACTACGTCCCCTTGCCC
+HWI-EAS443:3:25:53:1275#0/1
aba`X¥_`a]Ya¥baaab_]`P_`Z`a¥]a_`VGNV_^V
@HWI-EAS443:3:25:576:1719#0/1
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+HWI-EAS443:3:25:576:1719#0/1
aab_Zaaa¥]¥aaa_NQ`_a`a`____a_a^^a[XT^a^XW
@HWI-EAS443:3:25:576:272#0/1
CTGCTGTAATTGGGTATCTCATTGCCATCATCCACTTCAT
+HWI-EAS443:3:25:576:272#0/1
^`b`b]_b`b`baa[abbbbbbbba_abab]Za``b`[aa
@HWI-EAS443:3:25:595:540#0/1
CTGTAATTGGGTATCTCATTGCCATCATCCACTTCATTCT
+HWI-EAS443:3:25:595:540#0/1
ab]_bbbbbabababbbabbbbaabbbabbbba``abaa
@HWI-EAS443:3:25:598:1749#0/1
CAAAATGAGAAATCCTCTCAGGACAGCAGACTCCACCCCA
+HWI-EAS443:3:25:598:1749#0/1
abbbbaababa[ab^ab¥`a_[`_a[[a_`_`_`[____
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CCGCACTCGGAGATACTACTAAGACCACTGTGGACCAT
+HWI-EAS443:3:25:59:698#0/1
ababaaa^]_a`aa`aa_]aaa``_a``__VZUPa]]^
@HWI-EAS443:3:25:615:1553#0/1
TCTGCTGTAATTGGGTATCTCATTGCCATCATCCACTTCA
+HWI-EAS443:3:25:615:1553#0/1
abbabab_babaaaa]baaaaaa`baa_ab_`aaaa_a`

@HWI-EAS443:3:25:645:1185#0/1
CCCCAGTTCTGGAAAAGCACTTTTGCATCTTTTTGGAAAT
+HWI-EAS443:3:25:645:1185#0/1
aabbbaabbb`_bb¥`_bbabaaaa`aa`babba`Tbaaa
@HWI-EAS443:3:25:66:516#0/1
GCTGGATCAGACCGAGTGATGGTATCACCTCTGGCCGTAA
+HWI-EAS443:3:25:66:516#0/1
a^aba`Xbb`abb`_a_baXbaZa^]a_a`¥``a_a`U_`
@HWI-EAS443:3:25:687:458#0/1
GGAAAAGCACTTTTGCATCTTTTTGGAAATGCCTCAAGAG
+HWI-EAS443:3:25:687:458#0/1
a__^¥^VG[V^^UN[LV]^^^[]_X]PRNNVXYX^Y]X]
@HWI-EAS443:3:25:691:1388#0/1
GGATTTCTCATTTTGGGCAAAGAAGACAAGAGATATGGCC
+HWI-EAS443:3:25:691:1388#0/1
aUVX__^[] [YV__ZU_]_X¥X¥X¥Y]]^W^]SY]S]WXX
@HWI-EAS443:3:25:694:1622#0/1
CAATCCCCAGTTCTGGAAAAGCACTTTTGCATCTTTTTG
+HWI-EAS443:3:25:694:1622#0/1
_a`bbbaaa^`aaa_a`bb``aa``__aa`aaa`a`a`]
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+HWI-EAS443:3:25:700:463#0/1
N_[X`aS`W^X¥]aa_bbabb` ``^a]]Z^U[_`aa`a_^
@HWI-EAS443:3:25:71:279#0/1
CTGCTGCTCCTGAGAGGATTTCTCATTTTGGGCAAAGAAGA
+HWI-EAS443:3:25:71:279#0/1
abbbb`bbbbbbb`ba_abaaa`_bbba`abaaa`aZ`aa
@HWI-EAS443:3:25:763:734#0/1
CTTGTGACCATTGAATTTTACAATTTCCAGTTCCTGAT
+HWI-EAS443:3:25:763:734#0/1
abbb`ababbbbbbbbbbb`b^`babaaaa`aaa`aaWa
@HWI-EAS443:3:25:778:1699#0/1
AATAAAAGAAGTCTGAGAGATCTAATGTCGCAGTCCCGCACT
+HWI-EAS443:3:25:778:1699#0/1
abaa]Z_` [`aaaa`aaa]^aa` ```_`[^a`Y__Z]¥S[]
@HWI-EAS443:3:25:793:1340#0/1
CTGCATGGCCAGGTTTGTATCAACTCTCCTCCTTATTTT
+HWI-EAS443:3:25:793:1340#0/1
a`bb`]aTaa^]]U_Y_¥a_aa¥aa^_P_]`]__UYa_^
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+HWI-EAS443:3:25:802:1886#0/1
ababbaaaa`_aa_aVaa`_`aa¥aa__¥`]a_¥`_¥¥¥
@HWI-EAS443:3:25:818:1215#0/1
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+HWI-EAS443:3:25:818:1215#0/1
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@HWI-EAS443:3:25:821:463#0/1
AAAGAAGTCTGAGAGATCTAATGTCGCAGTCCCGCACTCGCG

+HWI-EAS443:3:25:821:463#0/1
abbaaaabbababaaaaaab¥_aaaa¥_``_a[````_`
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+HWI-EAS443:3:25:831:215#0/1
`aab[aabb`HWZW`U`¥aa]aaaaSba`ZHQ_^VaV_a
@HWI-EAS443:3:25:833:401#0/1
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+HWI-EAS443:3:25:833:401#0/1
aXZa¥¥a¥`RZ]a`^`aY^_]a^[ababa`ab`ZaVZX_`
@HWI-EAS443:3:25:845:675#0/1
TGCTGTAATTGGGTATCTCATTGCCATCATCCACTTCATT
+HWI-EAS443:3:25:845:675#0/1
_aaaaaaYb___a`baZX`a__a]`a_a_`¥YV_^[Z`_
@HWI-EAS443:3:25:849:613#0/1
CAGAGGGTTTGTCTTGTTCATTCTCTCTGGAATCATGT
+HWI-EAS443:3:25:849:613#0/1
Z_aba`¥W_^aab`bbbabbbab`bbb_[ab__bbabbb
@HWI-EAS443:3:25:857:1081#0/1
CGTTTTCGTTTCATTACCAACTACGTCCCCTTGCCCAA
+HWI-EAS443:3:25:857:1081#0/1
abbbbbbbbbbb`bbabbbbaabbbbbbaaa`aaaa`a`
@HWI-EAS443:3:25:884:581#0/1
CTAATGTGCTAATTGGGCAAGGGGACGTAGTGTGGTAAT
+HWI-EAS443:3:25:884:581#0/1
abbbbbabbbbbbbbabbbabba]_ab`aaababbb]aa]
@HWI-EAS443:3:25:88:1061#0/1
TTCTCATTGTTGGCAAAGAAGACAAGAGATATGGCCCAGC
+HWI-EAS443:3:25:88:1061#0/1
_bba___abaa^`_Sa^a`a]`bb`^[Z[]a[W]aa`^`[
@HWI-EAS443:3:25:913:783#0/1
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+HWI-EAS443:3:25:913:783#0/1
a_bb¥b_bb__Zaaa¥]a]a^]]_TWVY^aa_]a_¥PS
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TGTGCCACAGCACACAGATTGGAGGAGTAAGGATGGTGA
+HWI-EAS443:3:25:953:594#0/1
abab_U_abbbaa`ba`aabaaaa_a^aaa`_``T`_`
@HWI-EAS443:3:25:955:941#0/1
CTGTCTAAGGATGTCCACCATCCTTACTCCTCCAATCTGT
+HWI-EAS443:3:25:955:941#0/1
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+HWI-EAS443:3:25:956:1092#0/1
abbbbabbbabbbbbbbbbb`abbababbbababaaaa
@HWI-EAS443:3:25:98:1862#0/1
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+HWI-EAS443:3:25:98:1862#0/1
aaaaba`^aXa]^Wa`_L^X`UaZ_SV[_UPTWYRST[Y

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+HWI-EAS443:3:26:1015:1407#0/1
ZbbaU¥baab`a`_]_aa`¥`aa^]`a_]aYKO[T^]a
@HWI-EAS443:3:26:1059:179#0/1
AGTACATGAAGGTATGAAGAATTCACAATGGTTGGGAGA
+HWI-EAS443:3:26:1059:179#0/1
abababbaaabbaZbabaaa`abaaa`aa`aaZ`^^_¥`^
@HWI-EAS443:3:26:1060:422#0/1
GCCTCGCGAGATACTACTAAGACCACTGTGGACCATAT
+HWI-EAS443:3:26:1060:422#0/1
a_TTVVS_a`a`^XSU_ZNYTTW`Y___U]TW]^ZUGT^X
@HWI-EAS443:3:26:1071:212#0/1
GGAGTCTGCTGTCCTGAGAGGATTTCTCATTTTGGGCAA
+HWI-EAS443:3:26:1071:212#0/1
aa_a]_aa^aa^^_a[[_]_]`¥`^`_`___Z^_VY]Y
@HWI-EAS443:3:26:1075:1954#0/1
GGGTTCACTTTCAAAGGACAAGCGGATCATCAGTCAAGA
+HWI-EAS443:3:26:1075:1954#0/1
¥WSMFS_QOOL`Y[Q[VWZZSS]Y¥ZQVYYTVW[QRZ]X]
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GTCCCCTTTTCGTTTCATTACCAACTACGTCCCCTTGC
+HWI-EAS443:3:26:1106:1170#0/1
aN_]`bX^aa_a__`aa]`_^a`_a_Y^][XY_XY^]_W
@HWI-EAS443:3:26:1130:1080#0/1
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+HWI-EAS443:3:26:1130:1080#0/1
abaabbaa_aabbbbbbbbababaaabbaaababa`baa_
@HWI-EAS443:3:26:1131:826#0/1
AAAAGAAGTGAAGATCTAATGTCGCAGTCCCGCACTCGC
+HWI-EAS443:3:26:1131:826#0/1
abbabaabbabbaaaabbabb`[a`aa``_`a`___^a_
@HWI-EAS443:3:26:1136:1728#0/1
CGAGCAGTCAATTGCTGAGGCAATAATTGTGGCCATGGTA
+HWI-EAS443:3:26:1136:1728#0/1
abb`[aaabbbbaaa_ab__abbabaaaa_a`^XZF[`QX
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+HWI-EAS443:3:26:1141:77#0/1
`bba`b_ab_babbbR`aaa`bZa__aaH_a`^U^]^^
@HWI-EAS443:3:26:1145:1038#0/1
CTCACTAAGACCACTGTGGACCATATGGCCATAATCAAAA
+HWI-EAS443:3:26:1145:1038#0/1
a^]`bb^`^]ab`¥`aT¥`a]_Va_aa_^VVYY[____
@HWI-EAS443:3:26:1161:1117#0/1
GTCCATTATTCTTGTCTGCTGTAATTGGGTATCTCATT
+HWI-EAS443:3:26:1161:1117#0/1
aa_bbbbaaaaaabab__`aaaa^^`aa``[M[`Y`^]]^
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GGCGTACATGCTAGAAAGAGAATTGGTCCGTAACAAGG

+HWI-EAS443:3:26:1173:785#0/1
aaab`a]Y`b[¥_a^a^a¥aNaaaaXW`¥a[_¥R^^^]]_
@HWI-EAS443:3:26:1181:159#0/1
TCCTGATTATCCATTGATAAGTGTGACTAGCACTGACTC
+HWI-EAS443:3:26:1181:159#0/1
aRabaaaVabTQ[a_[`aa^_L_S¥aa_]_aa_Za__X^W
@HWI-EAS443:3:26:1187:444#0/1
GGGGACGTAGTGTGGTAATGAAACGAAAACGGGACTCTA
+HWI-EAS443:3:26:1187:444#0/1
`Z]aX_a__aYb_aa[R^^_`^_a^]`^`^^_][S]V_X
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+HWI-EAS443:3:26:1261:417#0/1
aba_aa`aaaaa_a_baaa`_a__`a^_a_XaX`^`^`
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GTCCCGTTTTTCGTTTCATTACCAACTACGTCCCTTGC
+HWI-EAS443:3:26:1319:917#0/1
a_`_ab]R__abW[a]_aaa][__^_a^`_U]XYZX]_W
@HWI-EAS443:3:26:1323:2014#0/1
CGTTTTTCGTTTCATTACCAACTACGTCCCTTGCCCAA
+HWI-EAS443:3:26:1323:2014#0/1
a_`abbb¥Saabb`abaaababaabaa_b]a`^`_a_aa`
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ATTGGGCAAGGGGACGTAGTGTGGTAATGAAACGAAAAC
+HWI-EAS443:3:26:1366:849#0/1
abb`^aaa`^^aa`_a`_a_]`^aaaV]_`¥_aaW^Z`^]G
@HWI-EAS443:3:26:1386:1331#0/1
ATGGCAATGAGATACCCAATTACAGCAGACAAGAGAATAA
+HWI-EAS443:3:26:1386:1331#0/1
a]ba]aa``[F`aaa_aaa_a`]]`_`a`]a`__`_`^`^`
@HWI-EAS443:3:26:138:52#0/1
GGGTGGAGTCTGCTGTCCTGAGAGGATTTCTCATTTTGGG
+HWI-EAS443:3:26:138:52#0/1
ab_]aa_a^_a__a^___`]]`^`Z]]_V^YY_]¥^^
@HWI-EAS443:3:26:1402:202#0/1
AATAAAAGAACTGAGAGATCTAATGTCGCAGTCCCGCACT
+HWI-EAS443:3:26:1402:202#0/1
a^[Ybbb`JaaZUZ_Waa[^XbXX_^F[TTXNQYF¥^U]U
@HWI-EAS443:3:26:1454:863#0/1
ATCCCTCTCAGCGACATCTCCGTGCTTGGGGTCATGTCGG
+HWI-EAS443:3:26:1454:863#0/1
Zbbba`]]`abaa`X^ab]^aaaZ^]a]]^]TK¥^`]¥__`
@HWI-EAS443:3:26:1587:1295#0/1
CTAATGTCGCAGTCCCGCACTCGCGAGATACTCACTAAGA
+HWI-EAS443:3:26:1587:1295#0/1
abbbbbbab]bbbbbbba^bbbbba````aa`a``¥aaa]a
@HWI-EAS443:3:26:1590:1311#0/1
CTCGCGAGATACTCACTAAGACCACTGTGGACCATATGGC
+HWI-EAS443:3:26:1590:1311#0/1
aab`]bbbbab`b^`a`^bbbaaa`a`]Za`a_aa`Vaa]U

@HWI-EAS443:3:26:1617:317#0/1
GAAGATCCAGATGAAGGCACATCTGGGGTGGAGTCTGCTG
+HWI-EAS443:3:26:1617:317#0/1
Q_`[\`IW_b`a_YXabaa`aab`aaaabRaa``_¥a`Vaa
@HWI-EAS443:3:26:161:874#0/1
CATCACTCGGTCTGATCCAGCATCGTTTGTGTTTGCTCCAG
+HWI-EAS443:3:26:161:874#0/1
abbbbbabba_aaY]aabaa_Z_ab__a`X_aa¥a____`_
@HWI-EAS443:3:26:1650:766#0/1
GCAGACCCATTAGCATCTCTCTTGAAATGTGCCACAGCA
+HWI-EAS443:3:26:1650:766#0/1
aa]a[b[]a`^ab`abb^WW^bbabbbaaaa^aVU^aaaU_
@HWI-EAS443:3:26:1666:1795#0/1
AAAGAAGTGGAGATCTAATGTGCGAGTCCCGCACTCGCG
+HWI-EAS443:3:26:1666:1795#0/1
aaaa_aaa`a^_S^a_baaaa^`¥`_aZ]]NaU]R^`]U_
@HWI-EAS443:3:26:1731:132#0/1
AGCAGACAAGAGAATAATGGACATGATTCCAGAGAGGAAT
+HWI-EAS443:3:26:1731:132#0/1
_a_ab`__abab_ab`aa`]Waa__XZ[^W]W_]Y]W
@HWI-EAS443:3:26:186:134#0/1
GTATCTCATTGCCATCATCCACTTCATTCTGAGTGCAGGGG
+HWI-EAS443:3:26:186:134#0/1
a_a`^`____[]a`HG_0^^Z^U]VVV]U[R[UVXV¥`XY
@HWI-EAS443:3:26:188:507#0/1
CACAATGGTTGGGAGAAGAGCAACAGCTATTCTCAGAAAG
+HWI-EAS443:3:26:188:507#0/1
ababaabbaaabaabaabaaba`a_aaa```a__`aaaa
@HWI-EAS443:3:26:20:1998#0/1
GACGAGCAGTCAATTGCTGAGGCAATAATTGTGGCCATGG
+HWI-EAS443:3:26:20:1998#0/1
_¥aYaUaba[bba]a`baYUZUaaa`[`ZT]UTW__[FLB
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GGGACGTAGTGTGGTAATGAAACGAAAACGGGACTCTAG
+HWI-EAS443:3:26:225:58#0/1
aba[_b^_a^a_aa_Q^`^`Y`aW_^^Y^¥^Z^]X]^YWS
@HWI-EAS443:3:26:24:1293#0/1
CTGATGTGACTTTTTGATTATGGCCATATGGTCCACAGT
+HWI-EAS443:3:26:24:1293#0/1
a``aaaaaaaaaaaaa`aaba`_aaaT¥XT]S^`YVZ¥V
@HWI-EAS443:3:26:24:1332#0/1
GTCCCCTTTTTCGTTTCATTACCAACTACGTCCTTGC
+HWI-EAS443:3:26:24:1332#0/1
`ababaabbbbaab`_aabaa`babaab`a`aaa^[aY_
@HWI-EAS443:3:26:261:1014#0/1
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+HWI-EAS443:3:26:261:1014#0/1
aUUY^YQVa[`]^S]`_a_]__Ya^QZ¥PZ_¥Z[Z`VN]R
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GGCACATCTGGGGTGGAGTCTGCTGCTCCTGAGAGGATTC

+HWI-EAS443:3:26:262:1101#0/1
aab_[[]_ZW_^K^_Y^SZ]a_[V_bTVZ]aaZY]UXY
@HWI-EAS443:3:26:263:349#0/1
GGCAAGGGGACGTAGTGTGGTAATGAAACGAAAACGGGA
+HWI-EAS443:3:26:263:349#0/1
YbbUI_ba^abb]U_Y_ZbS]LR]VHTaa¥aHX_`^Y^`0
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GGGGACGTAGTGTGGTAATGAAACGAAAACGGGACTCTA
+HWI-EAS443:3:26:390:1299#0/1
````[baNab¥a]aaZN\_]V`aaa\_\_\_a\_\_\_`\_U\_]¥X\_  
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AGGGGACGTAGTGTGGTAATGAAACGAAAACGGGACTCT  
+HWI-EAS443:3:26:391:265#0/1  
`bbbb`ba^ba^bYbbb\_\_a¥Y¥aaa`a`baYaaaSO[[^  
@HWI-EAS443:3:26:39:1907#0/1  
AAAGAAGTGGAGATCTAATGTCGCAGTCCCGCACTCGCG  
+HWI-EAS443:3:26:39:1907#0/1  
a`X]Za\_\_\_\_\_[\_Y`]^]^Y`U\_]V\_^\_X`]`X\_U]U  
@HWI-EAS443:3:26:413:64#0/1  
AAAAGAAGTGGAGATCTAATGTCGCAGTCCCGCACTCGC  
+HWI-EAS443:3:26:413:64#0/1  
aa\_ab[aabaabaaaa\_a``a\_\_a\_\_a\_\_^\_]¥GV]]`^  
@HWI-EAS443:3:26:416:1944#0/1  
ATAGGGTTGAGGATTAGCTCATCTTTTCAGTTTTTGGTGGGT  
+HWI-EAS443:3:26:416:1944#0/1  
a`a`\_`U`\_aaa\_\_\_\_\_`a]\_`\_^\_\_\_\_\_¥¥\_\_^Z^YXZ  
@HWI-EAS443:3:26:433:473#0/1  
CTTCTGATGTGTACTTTTTGATTATGGCCATATGGTCCA  
+HWI-EAS443:3:26:433:473#0/1  
aabbabaZ`b\_b]babaaab`]baab^aaa`\_]^VZTV]U  
@HWI-EAS443:3:26:437:1008#0/1  
ATTTCCAAAAAGATGCAAAAGTGCTTTTCCAGAAGTGGGG  
+HWI-EAS443:3:26:437:1008#0/1  
Z`aa¥a^^`VZb¥Vaba`abbTbaa^^`bab`baabaaaa  
@HWI-EAS443:3:26:447:998#0/1  
ATTCTCTTTCTAGCATGTACGCCACCATCAAGGGAGCAAT  
+HWI-EAS443:3:26:447:998#0/1  
abbbabaaabaaaaaaa\_baaaaaa^\_a``[aaaa\_a`  
@HWI-EAS443:3:26:448:569#0/1  
CCCGTTTTCGTTTCATTACCAACTACGTCCCCTTGCCC  
+HWI-EAS443:3:26:448:569#0/1  
aaa\_[Ya`\_aX`\_aaaa^a[XY¥[\_\_X\_QP[S¥^Y^R[Z  
@HWI-EAS443:3:26:454:225#0/1  
GTGGAGTCTGCTGTCCTGAGAGGATTTCTCATTTTGGGCA  
+HWI-EAS443:3:26:454:225#0/1  
a`ab`a`aabaaa]\_\_`a\_`a`\_\_aa\_]```\_a`\_ZW^  
@HWI-EAS443:3:26:461:177#0/1  
CGTAGACATATGCAAGGCAGCAATAGGGTTGAGGATTAGC  
+HWI-EAS443:3:26:461:177#0/1  
a\_MYbbaa^aa^a`````¥`]^^\_ZN¥WZ\_a`\_[^\_W`ZS



@HWI-EAS443:3:26:498:1021#0/1  
CTGGGGTGGAGTCTGCTGTCCTGAGAGGATTTCTCATTTT  
+HWI-EAS443:3:26:498:1021#0/1  
a`WW]^LWP\_WUP]^`RXTaZNUZ\_RUXOUZ[^a`\_XVa`  
@HWI-EAS443:3:26:52:1590#0/1  
GACTCAGGGCCATTGATCTCCCACATCATTGATGACGAAT  
+HWI-EAS443:3:26:52:1590#0/1  
Y\_\_Y`abaa`Z\_VZ]^`a[P¥`¥U\_^]I[a]\_\_YX[W  
@HWI-EAS443:3:26:537:554#0/1  
AGAACCCCGCACTCAGAATGAAGTGGATGATGGCAATGAG  
+HWI-EAS443:3:26:537:554#0/1  
]^¥^`aa\_a`a`a`aa`aa[``^aa[``\_^`\_]^\_^  
@HWI-EAS443:3:26:549:210#0/1  
GAAGAAGTGCTAACGGGCAACCTCCAAACACTGAAAATAA  
+HWI-EAS443:3:26:549:210#0/1  
a\_```abZb`aba`aaZ`a¥`a`a`\_^Z^`^`\_`[[^\_\_\_\_]  
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GCTGGATCAGACCGAGTGTATGGTATCACCTCTGGCCGTAA  
+HWI-EAS443:3:26:579:630#0/1  
`bbabT[abb]aa\_`¥^aaaa\_Xa¥Z^`\_aU^[Y\_`Q\_^  
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AAAGAAGTGGAGATCTAATGTCGCAGTCCCGCACTCGCG  
+HWI-EAS443:3:26:581:1179#0/1  
ab`b`]a`aa\_baaaaab`aa^aaaa¥`\_a\_``^¥\_\_`\_  
@HWI-EAS443:3:26:60:1481#0/1  
CCCGCACTCAGAATGAAGTGGATGATGGCAATGAGATACC  
+HWI-EAS443:3:26:60:1481#0/1  
a\_\_aaa\_]ba^``\_aXZ`Y[ZVWUPZ]]Z\_U]ZW\_`X[]  
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GTCAGTATTCTTGCCCCACTTCATTTGGGAAAACAATT  
+HWI-EAS443:3:26:613:909#0/1  
aY\_X]^]G\_a^aS^¥a^]]U¥W¥[Y¥VY[UGY`\_]X[]X  
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aa``aab`ab^baa``abaaa\_a\_aaa\_a\_`\_aT¥`\_`\_\_\_\_  
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`V[aabaaaa\_a^``aa``]^`\_aa`\_a^``\_`\_]`\_][^  
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+HWI-EAS443:3:26:738:1485#0/1  
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+HWI-EAS443:3:26:789:1350#0/1  
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a`a[^`\_a\_bZT0\_ababab[P[`X``ab¥¥N^`\_`\_`\_RB  
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a\_0][WZQG[YV\_YV^ZL¥WY[SX]XOM[XV¥XOMXWSXB  
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+HWI-EAS443:3:26:851:449#0/1  
\_Y^`ZSS]^`^`]^`aaa\_\_\_`a]a^[\_^^`\_\_aZ[^\_`]]Y  
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+HWI-EAS443:3:26:915:78#0/1  
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+HWI-EAS443:3:26:922:1985#0/1  
`a`a`ab\_\_a\_b\_``a¥aaaa]\_\_a^¥X\_]][[]]¥Z]]  
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a`bb`Ya]¥ba`\_`a^aa^^^]aaaaa[^\_```]a`aa  
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+HWI-EAS443:3:27:1013:1880#0/1  
abb`aaaaa`a`a^`\_a``aYa^\_`\_¥\_\_¥W\_[^W\_YZW  
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+HWI-EAS443:3:27:1021:1629#0/1  
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+HWI-EAS443:3:27:1023:507#0/1  
^[R^NWU^`a[\_]\_a¥US[Z^¥^Z^]SL]a]]PXHMR`[a  
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a`a`Z`^^`a\_[Pa\_^\_\_\_`\_W]`]YY`^`\_]^U^^`^X¥  
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+HWI-EAS443:3:27:1654:987#0/1  
aa\_aabab`Ra`\_`aaa\_\_a[^a^`\_]Q]^Z\_SQPNR¥0  
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+HWI-EAS443:3:27:166:1798#0/1  
aaa`a``\_aaa`\_^[aZa`\_a``Xaaa¥aa]a`S]\_`^``  
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¥[Pa\_a`aaa\_ab`\_\_`\_\_`[\_]\_¥aWaa\_\_Y\_a^ZaZV\_  
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]][`a\_ab\_[¥[a\_a``a¥FX`K[VaMR\_Y\_\_U]¥0[RRU  
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+HWI-EAS443:3:27:222:605#0/1  
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+HWI-EAS443:3:27:251:224#0/1  
`¥`aaa`\_aaaa\_a\_a`a\_\_`````]`\_\_a\_\_W]]\_]Y]Z  
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+HWI-EAS443:3:27:296:684#0/1  
abaa^`abaaaa````aa`aa`aa\_\_aZaa[]Ya\_\_\_\_``¥  
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+HWI-EAS443:3:27:420:173#0/1  
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+HWI-EAS443:3:27:442:1233#0/1  
\_\_ZN]aWU\_\_\_aaaaab`ba\_a`aa^Uaa`^]¥a¥\_U^UT  
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aaa\_`a\_`aa`a`\_`]a\_aaaa\_`\_\_\_\_\_``\_\_\_\_\_WZ^]\_\_\_  
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+HWI-EAS443:3:27:545:1410#0/1  
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+HWI-EAS443:3:27:655:812#0/1  
aaaaaaaaaa\_aa`aa`a\_a`a\_\_a`a`````\_`W^\_\_^`  
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+HWI-EAS443:3:27:670:1276#0/1  
abbbba`abbbbaaabaabba\_aa\_aa\_`^]a`a^  
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CCAGAACAGAGTAGGATGCAATTTTCCTCATTGACTGTGA  
+HWI-EAS443:3:27:691:1013#0/1  
aaaaaba`aaa^a\_]`^a`a`````a\_\_\_`aa`````\_`V\_^  
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+HWI-EAS443:3:27:692:662#0/1  
^\_^`^]`^a^^aaa\_[`aa`[[aX[Y\_aa^¥U¥\_`\_ZPQZ¥  
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+HWI-EAS443:3:27:792:730#0/1  
a\_`aa\_aa]a\_\_\_\_\_S\_^\_ZYIS^¥]¥¥^¥W¥WWW^¥¥¥¥¥  
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+HWI-EAS443:3:27:803:1938#0/1  
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+HWI-EAS443:3:27:821:1008#0/1  
abbb]bab]`a\_a\_U\_bb`\_Xa`a¥a`````^^\_\_\_\_\_a  
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+HWI-EAS443:3:27:826:752#0/1  
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+HWI-EAS443:3:27:831:120#0/1  
a`\_b]a`aa]TU¥]]`\_\_\_\_\_^W\_]^^V\_YUYVYYYYVY  
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][I[Y\_VSa`Zaa\_a`aa\_Z`^Ka`\_aa`a]\_Wa`a\_`¥  
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+HWI-EAS443:3:27:874:200#0/1  
a\_a^aa^Vaa`\_[\_YU`]¥\_\_\_Y^^\_\_^^X^^\_]^V\_^X^  
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+HWI-EAS443:3:27:895:322#0/1  
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+HWI-EAS443:3:27:90:256#0/1  
a`Z^¥X`baabaaa`aaaaaa\_aa`\_Z^\_U\_N¥^\_\_^  
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+HWI-EAS443:3:27:924:1099#0/1  
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+HWI-EAS443:3:27:94:1015#0/1  
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¥a\_b`b]` `bbbbbbaa`[[a]bb`b^aTbaaa`\_aY`\_a^a  
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+HWI-EAS443:3:28:1040:1880#0/1  
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Xb\_\_aV[^Y`Y`IS`aa]b`Y`abbaa`\_`^aa`aab`^`\_  
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aaaa`aaaaa¥a```^[a\_^[P[[^¥^[[¥^[^`^^^¥¥  
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+HWI-EAS443:3:28:1206:1159#0/1  
a`ba¥GTa`a\_\_\_\_`¥W^^ZRa`^¥`\_]`\_\_^^Va^\_Y]\_Y  
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+HWI-EAS443:3:28:1227:1269#0/1  
¥`\_a^R`aSa]aQUa\_`]aa¥]`aYaaa\_`¥`XY`¥\_\_Z  
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a¥^[`b`Xaaa`][`\_W]¥RTa\_Y\_\_^`V^R[`V\_VU  
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+HWI-EAS443:3:28:1364:1310#0/1  
abbab\_babbaaaaaaaaaabbaaa```ba[aa\_a`\_a\_\_  
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+HWI-EAS443:3:28:1365:1685#0/1  
abbaaaaaaaaa\_aa``aaaaaaaa`a\_`\_]`^`a\_\_\_\_OVU^¥\_  
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+HWI-EAS443:3:28:1390:124#0/1  
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+HWI-EAS443:3:28:1419:1431#0/1  
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+HWI-EAS443:3:28:1425:1066#0/1  
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aaa`abbbab`aba\_aba\_aba^TUaa`a\_R`aXa`\_\_Z\_  
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+HWI-EAS443:3:28:1434:677#0/1  
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aY` `^aaaaab\_a\_X]` `aaaaaaaa\_]a`aa]Y^S` []¥  
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+HWI-EAS443:3:28:1498:272#0/1  
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+HWI-EAS443:3:28:1615:239#0/1  
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a`aaaaaab^aaa`aaa\_Xaa`\_aWZ\_W\_]VVU[V^S  
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+HWI-EAS443:3:28:1785:1474#0/1  
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+HWI-EAS443:3:28:197:249#0/1  
a`a\_bbbaaa]bba\_babaaa^b\_b```\_`aa\_a`a\_Z^`\_  
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GGGCGATCTGAACCTTGTCAATAGGGCAAACCAGCGACTG  
+HWI-EAS443:3:28:245:774#0/1  
a`\_baaaba]aW][a\_a\_¥aa`aa^a`aa`\_]`^````\_  
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+HWI-EAS443:3:28:264:255#0/1  
aa````\_RW`\_]baa`a``aa`a\_]\_\_a\_W\_]`^V^^`^WZ  
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+HWI-EAS443:3:28:26:282#0/1  
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¥¥W`\_\_¥WQTVT\_Z]QZ\_UaZ¥[XI[``\_]P\_Z`^`UDSV  
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+HWI-EAS443:3:28:324:675#0/1  
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+HWI-EAS443:3:28:332:95#0/1  
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aaHN\_\_ZTWV¥JNVW^ZZRMU¥^` [[\_PTYX]XU\_]XU^U  
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aabbba\_bbbbbbaabb`a^aabaabbaabaaaaaa¥aa`  
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+HWI-EAS443:3:28:461:822#0/1  
aaaa`\_a`\_`aaaa\_\_a`a`\_`^`\_a\_\_U\_\_a¥^NZ¥^¥W  
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+HWI-EAS443:3:28:468:1212#0/1  
a]P¥a` `aaaaaZ`\_aaaa`aa` `Z^Z`\_`^X^^Xa\_[X\_W  
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+HWI-EAS443:3:28:526:1291#0/1  
aZI` `XXX]aab`aZW`a`Xaa^aYaaZZ` `]`P^Ya^YVP  
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+HWI-EAS443:3:28:530:470#0/1  
`¥U¥¥`\_`[\_`^a`\_]`\_`aaab` `W^a`¥`a\_Q¥S\_a^^]`\_`  
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+HWI-EAS443:3:28:536:1292#0/1  
aababb]^abbba`a`aaaaaaaa`a`\_`aa]R`\_a`¥[[`\_`

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^`a`abb^babaVXY[baY^^ZV`\_`W^\_Y^aa]aaaW]Y  
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Z]\_aabbb]¥a`\_[\_ababaaa^a[a`XPa\_^Y`Q`[aYa  
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a\_TLY\_S[[S`\_`¥]NX\_`\_`\_Y¥^[\_[U[Z[]UNPV^]  
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+HWI-EAS443:3:28:731:162#0/1  
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GTCCCCTTTTCGTTTCATTACCAACACTACGTCCCCTTGC  
+HWI-EAS443:3:28:741:1919#0/1  
¥D]]¥\_T`¥]\_VW[[a`]X`a^a^`a`¥`\_V[`]XQUYT  
@HWI-EAS443:3:28:81:409#0/1  
GGTATCTCATTGCCATCATCCACTTCATTCTGAGTGCGGG  
+HWI-EAS443:3:28:81:409#0/1  
][U``bbbabb`a[`aa¥\_ba\_baa`¥aaaa\_W^Paa^Y^  
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CTGTCCACTTCAGAAATCAAGTTAAAATAAGGAGGAGAGT  
+HWI-EAS443:3:28:832:1909#0/1  
aa]V^`aa`\_`aa[a^U`\_`\_`aa]a`\_¥\_\_`\_S\_^\_]V  
@HWI-EAS443:3:28:844:115#0/1  
AATAAAAGAACTGAGAGATCTAATGTCGCAGTCCCGCACT  
+HWI-EAS443:3:28:844:115#0/1  
Obbba`a`¥b`b]^`\_¥ab]b`¥ab\_T`\_b\_¥]Z\_¥]H]Z  
@HWI-EAS443:3:28:894:1185#0/1  
ACTCACTAAGACCACTGTGGACCATATGGCCATAATCAAA

+HWI-EAS443:3:28:894:1185#0/1  
Yaba\_bab\_Y¥b`b`a¥T\_b^baabZV\_bVa`^`^Taab^  
@HWI-EAS443:3:28:991:1013#0/1  
CTTTCCAAGAACTGTAAGTCGTTTGGTTGCCTTGTGTAA  
+HWI-EAS443:3:28:991:1013#0/1  
abaab`bbabaababab\_aa`aaaa[a```aa^aa`\_a`  
@HWI-EAS443:3:28:996:166#0/1  
TAAAAGAACTGAGAGATCTAATGTCGCAGTCCCGCACTCG  
+HWI-EAS443:3:28:996:166#0/1  
]¥`abZXZ\_b\_TVa]aZ\_^`ab¥T\_`]YGTLRVKZQZRD  
@HWI-EAS443:3:29:1018:1032#0/1  
GGCCATATGGTCCACAGTGGTCTTAGTGAGTATCTCGCGA  
+HWI-EAS443:3:29:1018:1032#0/1  
a`bb\_Z¥WY]`a^Za^V^bVa^XV^[\_Z^a\_\_ZZBBBBB  
@HWI-EAS443:3:29:1074:86#0/1  
AACAAGGACAAACCCTCTGGAGCAAAACAAACGATGCTGG  
+HWI-EAS443:3:29:1074:86#0/1  
aaaa\_abaaa`\_\_]\_aS`a`¥[\_`¥¥^W`^`NZ\_\_`N¥`¥  
@HWI-EAS443:3:29:1077:234#0/1  
TGCATCCTTTCCAAGAACTGTAAGTCGTTTGGTTGCCTTG  
+HWI-EAS443:3:29:1077:234#0/1  
aaaabaaaa\_\_aaaa\_]\_aa]`\_\_]\_a]]`aa^\_\_]^^^\_  
@HWI-EAS443:3:29:1079:497#0/1  
CGCCACCATCAAGGGAGCAATTTTACAATCCTGGAGCTCT  
+HWI-EAS443:3:29:1079:497#0/1  
abaabbabbabbbb`baababbabaaaa\_a\_`a`a`a¥a  
@HWI-EAS443:3:29:1090:176#0/1  
TGAAGGCACATCTGGGGTGGAGTCTGCTGTCTGAGAGGA  
+HWI-EAS443:3:29:1090:176#0/1  
abaaaba¥`a`Xbaaaa^aa^a[^ab\_^`X`[\_]JZ\_\_W  
@HWI-EAS443:3:29:1119:1740#0/1  
AAAAGAACTGAGAGATCTAATGTCGCAGTCCCGCACTCGC  
+HWI-EAS443:3:29:1119:1740#0/1  
aba`]`aaa\_a]a\_`aY\_`aaa]]]`aUW\_\_`]-¥¥]]¥\_  
@HWI-EAS443:3:29:1122:1517#0/1  
AAACGACTTACAGTTCTTGAAAGGATGCAGGTGCATTGA  
+HWI-EAS443:3:29:1122:1517#0/1  
``\_`Z]^b^Z^^aY`]]¥XVY¥SVOU[¥``\_Yaa\_¥T`^  
@HWI-EAS443:3:29:1135:1942#0/1  
CGCCCCTAACTGCCTTGATCATGCAATCCTTGTGAGAA  
+HWI-EAS443:3:29:1135:1942#0/1  
ababbabbbb`a\_a`aaaUb\_aabaa\_[\_baa`aa`^\_  
@HWI-EAS443:3:29:1138:418#0/1  
AAAGAACTGAGAGATCTAATGTCGCAGTCCCGCACTCGCG  
+HWI-EAS443:3:29:1138:418#0/1  
^[Z[JZ]W[¥aba]`a^]aabaXaa^aZQ[a`VaaSHNJ]  
@HWI-EAS443:3:29:1148:858#0/1  
TGCTGTAATTGGGTATCTCATTGCCATCATCCACTTCATT  
+HWI-EAS443:3:29:1148:858#0/1  
^`a]Y^U¥b^¥¥`PYZGXa¥\_\_^XHTZ]`RG¥aZ^¥]^ZX





+HWI-EAS443:3:29:1385:240#0/1  
a\_\_a`\_`\_a]a`¥a^`0`a^`VV^^\_]W]^[]Y^QBB  
@HWI-EAS443:3:29:13:1447#0/1  
GTCTGCTGCTCCTGAGAGGATTTCTCATTTTGGGCAAAGAA  
+HWI-EAS443:3:29:13:1447#0/1  
a`baaaaZ^aaaa¥aaa`aaaaaaRaa`a\_\_`aa`Z[^  
@HWI-EAS443:3:29:1419:906#0/1  
GCGAGATACTCACTAAGACCACTGTGGACCATATGGCCAT  
+HWI-EAS443:3:29:1419:906#0/1  
a\_]¥aabaabba\_baa`\_\_\_a\_aa\_a`a]\_^aa\_aa\_[` [  
@HWI-EAS443:3:29:1428:157#0/1  
CTGCTGTAATTGGGTATCTCATTGCCATCATCCACTTCAT  
+HWI-EAS443:3:29:1428:157#0/1  
abba\_b[`abbaaa^aa[a]`a`^\_a¥a`aa`\_`aV]`  
@HWI-EAS443:3:29:142:177#0/1  
AAGAAGTGAAGATCTAATGTCGCAGTCCCGCACTCGCGA  
+HWI-EAS443:3:29:142:177#0/1  
aaaaaaaa`aaa\_aa\_aa¥```\_`Y¥^T`¥\_Y¥Y¥^B  
@HWI-EAS443:3:29:1439:469#0/1  
GGGACGTAGTGTGGTAATGAAACGAAAACGGGACTCTAG  
+HWI-EAS443:3:29:1439:469#0/1  
ab[]aab\_¥]bXa`]GV^^^Paa[[I^\_[PV^]NR¥¥`\_ [  
@HWI-EAS443:3:29:1455:832#0/1  
GCGAGATACTCACTAAGACCACTGTGGACCATATGGCCAT  
+HWI-EAS443:3:29:1455:832#0/1  
a]^`aaZ]]VZY`¥`a^YU`\_\_XXOS¥V^\_AZ``]XBBB  
@HWI-EAS443:3:29:1470:502#0/1  
ATACTGGTAAGAGGCAATTCTCCAGTATTCAATTACAACA  
+HWI-EAS443:3:29:1470:502#0/1  
¥abb¥`\_`bb\_¥`Sb`b`^P^^aaabb`aaabaaa\_aa  
@HWI-EAS443:3:29:1473:359#0/1  
GCGAGATACTCACTAAGACCACTGTGGACCATATGGCCAT  
+HWI-EAS443:3:29:1473:359#0/1  
aaa\_a\_aX]VU\_¥aZ]U\_]R]Y]UV`X\_V]¥R\_0SYOVBB  
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AAAGAAGTGAAGATCTAATGTCGCAGTCCCGCACTCGCG  
+HWI-EAS443:3:29:1479:1576#0/1  
ab\_aaaaaaaaa`^`aaa`^^aa`¥¥`a[`R]^ZU][  
@HWI-EAS443:3:29:1490:324#0/1  
GGGTTAGAGATCAAAGAGGGAACGTACTATTGTCTCCCGA  
+HWI-EAS443:3:29:1490:324#0/1  
\_a`Z\_¥X[[\_¥QY]Xa[]^]VV¥`Y`[`¥^U[^U]YYWBB  
@HWI-EAS443:3:29:1494:458#0/1  
AATTGGGCAAGGGGACGTAGTGTGGTAATGAAACGAAAA  
+HWI-EAS443:3:29:1494:458#0/1  
UWZVOZ¥^`a\_aaa[[]a[¥N\_aa`NHGYUI^[MQ\_[BB  
@HWI-EAS443:3:29:1524:1358#0/1  
GCGAGATACTCACTAAGACCACTGTGGACCATATGGCCAT  
+HWI-EAS443:3:29:1524:1358#0/1  
a\_a\_\_^a`Y`[`S^\_\_]\_ZZ]^Y^XWX]X¥\_\_\_^¥T]Y]]

@HWI-EAS443:3:29:1548:801#0/1  
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+HWI-EAS443:3:29:1548:801#0/1  
abbbaabb`b`baabaaa\_ba[bb^\_a^aa^\_\_^[¥]a\_  
@HWI-EAS443:3:29:1569:1058#0/1  
AAAGAAGTCTAATGTCGCAGTCCCGCACTCGCG  
+HWI-EAS443:3:29:1569:1058#0/1  
]`ab]a\_a]ba[aaa^a`ba[`]X]XU¥S\_[`Z[W\_\_UB  
@HWI-EAS443:3:29:159:1697#0/1  
CAGTGGTCTTAGTGAGTATCTCGCGAGTGCGGGACTGCGA  
+HWI-EAS443:3:29:159:1697#0/1  
a\_\_¥¥VZbP\_`]Y\_aa¥a`\_[`XXLTRNRYNR[^[BBBB  
@HWI-EAS443:3:29:1606:1327#0/1  
TAAGACCACTGTGGACCATATGGCCATAATCAAAAAGTAC  
+HWI-EAS443:3:29:1606:1327#0/1  
Y[VZQ¥]¥^`TEVX]a^P\_[WR][X[[SOXRYYV\_] [BBB  
@HWI-EAS443:3:29:160:1664#0/1  
CTGTAATTGGGTATCTCATTGCCATCATCCACTTCATTCT  
+HWI-EAS443:3:29:160:1664#0/1  
aa`WX\_aa`a`]\_\_Y^aaa``aaa`aa]aa^`\_\_a\_\_[\_W  
@HWI-EAS443:3:29:1614:1140#0/1  
ATTACAACAAGGCAACCAAACGACTTACAGTTCTTGAAAA  
+HWI-EAS443:3:29:1614:1140#0/1  
aaaa\_aa¥`\_a`^^¥RZ``]\_\_R`\_`^Y`]]]\_¥^`X^Z  
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+HWI-EAS443:3:29:1623:800#0/1  
abaa`\_`aab`a`]`\_\_`a\_a\_a`\_`aW\_a\_aaaaa`  
@HWI-EAS443:3:29:1628:275#0/1  
CCATATCTTGTCTTCTTTGCCAAAATGAGAAATCCTC  
+HWI-EAS443:3:29:1628:275#0/1  
S\_a\_\_V]W`\_¥`T¥\_\_`a`]ZR]W^\_\_I¥aabZIUF[JXB  
@HWI-EAS443:3:29:1630:544#0/1  
GGGTAGAGATCAAAGAGGGAACGTACTATTGTCTCCCGA  
+HWI-EAS443:3:29:1630:544#0/1  
aaa)`aa`baa\_\_\_\_\_a\_a`^`^a]`^`\_a`\_]V`]XX\_X  
@HWI-EAS443:3:29:167:1147#0/1  
CTCGCGAGATACTCACTAAGACCACTGTGGACCATATGGC  
+HWI-EAS443:3:29:167:1147#0/1  
a^a\_`Y¥^\_] ]^^\_]`\_W`\_`a] ^Y] ^] ^`]X\_UYY^  
@HWI-EAS443:3:29:1740:2033#0/1  
GTCGCAGTCCCGCACTCGCGAGATACTCACTAAGACCACT  
+HWI-EAS443:3:29:1740:2033#0/1  
]M]aaa^Xaaaa`YV[¥PTP\_^^¥STUUQ¥\_¥[YS^]BB  
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ATGGCCATATGGTCCACAGTGGTCTTAGTGAGTATCTCGC  
+HWI-EAS443:3:29:1754:160#0/1  
aS``¥^aa`a`]`¥PN]U\_^W]\_¥W`aYUU[[^W¥XBBBBB  
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GCCCTGAGTCAGTGCTAGTCAACACTTATCAATGGATAAT

+HWI-EAS443:3:29:1789:847#0/1  
a`\_a\_[abaaaa\_Y¥^`\_^a\_\_a[`a\_]UW\_a`a\_aZBB  
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+HWI-EAS443:3:29:182:1018#0/1  
aaab^aa`b\_`baaaa`Za`ba¥Xa`a\_a¥^¥\_`^^¥^UU  
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+HWI-EAS443:3:29:191:769#0/1  
\_[LZWSZa]`¥a`]]\_aaZV]a^a\_a^T[`aa\_^T]^]U¥  
@HWI-EAS443:3:29:209:1187#0/1  
GTCCCGTTTTCGTTTTATTACCAACTACGTCCCTTGC  
+HWI-EAS443:3:29:209:1187#0/1  
a[b`\_b\_[`]a\_Z`¥`]PZ`a\_WTZ]¥^`XDZa`aRW^`  
@HWI-EAS443:3:29:216:1021#0/1  
GGATGGTGGACATCCTTAGACAGAATCCAAGTGGAGGAACA  
+HWI-EAS443:3:29:216:1021#0/1  
\_\_bU`a^``\_]H]]aaZXQ^\_^^¥U]U¥^a^]]W]\_Zaab  
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TGGTGGGTTCACTTTCAAAGGACAAGCGGATCATCAGTC  
+HWI-EAS443:3:29:228:1812#0/1  
^¥aY[baaaa``b\_abab\_a\_^]bb``bb]aa``\_ba]Ya  
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GAATAAAAGAAGACTGAGAGATCTAATGTCGCAGTCCCGCAC  
+HWI-EAS443:3:29:232:950#0/1  
a^a¥aaaa¥\_a``Z^¥a\_^^\_]\_V`\_Y\_¥a\_^W^\_\_W¥BB  
@HWI-EAS443:3:29:247:355#0/1  
TGCCCGTTAGCACTTCTTCTTCTTCTTGGACTGATGATCC  
+HWI-EAS443:3:29:247:355#0/1  
\_``]¥b\_¥`^`\_ZXY¥\_USaX^aZ¥a`U`]Z¥]]aa`\_`]  
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TGCTGTAATTGGGTATCTCATTGCCATCATCCACTTCATT  
+HWI-EAS443:3:29:277:419#0/1  
Z\_\_[\_]\_^```\_[Va\_^\_X]^^^[\_]X\_X]TNU\_Y\_]X  
@HWI-EAS443:3:29:296:250#0/1  
CTGCTGCTCTGAGAGGATTTCTCATTGCGCAAAGAAGA  
+HWI-EAS443:3:29:296:250#0/1  
a`]a`aU^aX]YY¥^WUM¥¥V[ZZZ`^`[Y[^[[``\_]Y¥  
@HWI-EAS443:3:29:306:1902#0/1  
GAATAAAAGAAGACTGAGAGATCTAATGTCGCAGTCCCGCAC  
+HWI-EAS443:3:29:306:1902#0/1  
^T^``VI\_\_UXaa]`UX`\_abU[Z[QPZJ[ZTTa`^F\_¥`  
@HWI-EAS443:3:29:306:480#0/1  
AAAGAAGACTGAGAGATCTAATGTCGCAGTCCCGCACTCGCG  
+HWI-EAS443:3:29:306:480#0/1  
a\_Z\_\_aaaaaa\_a\_``aa^aa\_a```\_W¥\_[]^[\_U\_]BB  
@HWI-EAS443:3:29:30:113#0/1  
GTGCAACTTCAATATAAAACTGCCTGTCCGCCGGCT  
+HWI-EAS443:3:29:30:113#0/1  
a]aa`a^`\_aaa\_\_\_\_\_a\_¥\_\_`\_¥a¥¥\_¥¥\_]`^¥¥^YWB

@HWI-EAS443:3:29:332:1673#0/1  
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+HWI-EAS443:3:29:332:1673#0/1  
aa`ab`\_\_¥a^`^W\_¥`¥\_Z`¥\_X`¥ZS¥V¥¥W^¥WXZB  
@HWI-EAS443:3:29:345:645#0/1  
CATCTCTCTTGAAATGTGCCACAGCACACAGATTGGAGG  
+HWI-EAS443:3:29:345:645#0/1  
`\_`aa`aa\_aa[\_a]\_`¥`\_aaaa`[\_`aaaa^\_¥\_U\_\_\_\_  
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GTCGCAGTCCCGCACTCGCGAGATACTCACTAAGACCACT  
+HWI-EAS443:3:29:390:468#0/1  
aRa\_\_aaMaaa``\_]\_PX^¥]S¥¥UWZYWS^¥¥I[P¥^]¥B  
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CTTCCTGATGTGTACTTTTTGATTATGGCCATATGGTCCA  
+HWI-EAS443:3:29:442:562#0/1  
aabbbbb^a\_a`\_aabbbbbbaabaaa^\_aaa]``XXG^aB  
@HWI-EAS443:3:29:458:909#0/1  
CTCAGAATGAAGTGGATGATGGCAATGAGATACCCAATTA  
+HWI-EAS443:3:29:458:909#0/1  
aaaQ`Yba]ZaX^\_a\_aV[\_`\_a\_]WP\_`\_]\_\_\_\_`a[]]B  
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+HWI-EAS443:3:29:49:1265#0/1  
aba`X]aabababa`aa`aa^Xa`aaaa^Z]\_\_¥\_a^]]  
@HWI-EAS443:3:29:51:1934#0/1  
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+HWI-EAS443:3:29:51:1934#0/1  
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+HWI-EAS443:3:29:522:461#0/1  
aaba\_ababb[a`aabaaaaba`a`aba`[\_a`\_]`^`a\_\_  
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CAGGTGCATTGACTGAAGATCCAGATGAAGGCACATCTGG  
+HWI-EAS443:3:29:549:1715#0/1  
\_^]W[IYbaZ]W0\_babaaJa^^`]P]b¥ZRba`aZR¥a\_  
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+HWI-EAS443:3:29:554:1435#0/1  
ab`^UVa\_bbXaV\_aaab^aa\_\_b\_`b\_`[U¥\_`^]`^`[¥  
@HWI-EAS443:3:29:556:159#0/1  
GTCTTAGTGAGTATCTCGCGAGTGC GGGACTGCGACATTA  
+HWI-EAS443:3:29:556:159#0/1  
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@HWI-EAS443:3:29:578:1059#0/1  
GTCCCGTTTTTCGTTTCATTACCAACTACGTCCCCTTGCC  
+HWI-EAS443:3:29:578:1059#0/1  
a`a\_aa^`\_a``Y\_\_\_\_```\_`a^```\_a^YU`ZaXV]Y]  
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GTCCCGTTTTTCGTTTCATTACCAACTACGTCCCCTTGCC

+HWI-EAS443:3:29:649:1953#0/1  
aab¥\_]TQT\_Q[`a`SL]a\_a`\_a\_U`\_URa``\_VVP]  
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+HWI-EAS443:3:29:690:1171#0/1  
`bbbabbabXbbab`aab\_baaa`aaaaa\_\_\_a`\_^aa  
@HWI-EAS443:3:29:695:333#0/1  
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+HWI-EAS443:3:29:695:333#0/1  
]a`babaabaa`baaaa\_a^aaa^]a`]a\_^¥Z^a\_\_YV  
@HWI-EAS443:3:29:726:290#0/1  
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+HWI-EAS443:3:29:726:290#0/1  
a[`aaaa`a`\_a^aa`\_W\_\_¥\_¥^`\_¥\_[U¥T^\_W\_Y\_^  
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+HWI-EAS443:3:29:72:1133#0/1  
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CCCCTTTTCGTTTTATTACCAACTACGTCCCCCTTGCCC  
+HWI-EAS443:3:29:747:1504#0/1  
aba`aaabb\_aaaaa`aa`a\_\_`\_`\_`\_]`^\_`V^^\_[Z  
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+HWI-EAS443:3:29:763:1450#0/1  
^ZZ]aa\_0[ZOTZTWZ¥`Z\_]PY\_VX\_[[NZTX]ZN]BBB  
@HWI-EAS443:3:29:788:90#0/1  
AAAGAAGTGAAGATCTAATGTCGCAGTCCCCGACTCGCG  
+HWI-EAS443:3:29:788:90#0/1  
\_`TTTT`[bb`^\_a]`[[]\_\_FNb\_aaS]^Y¥U[PZa\_]`  
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+HWI-EAS443:3:29:839:966#0/1  
abbab`ab^ab\_a`abT`a^`aaYa^`aa^`^\_]\_^]Y  
@HWI-EAS443:3:29:840:258#0/1  
TGCTGTAATTGGGTATCTCATTGCCATCATCCACTTCATT  
+HWI-EAS443:3:29:840:258#0/1  
aaabb[aaaaaaaYba^`\_a\_aa^]`\_\_a\_]`a`\_`W¥`]  
@HWI-EAS443:3:29:848:651#0/1  
TGGTCCGTAACAAGTTTTCTCCAGTAGCCGGCGGAAC  
+HWI-EAS443:3:29:848:651#0/1  
aaa]aabaaa]aZa`aS^a\_a`]\_\_`W\_\_\_\_]a`]`\_W¥¥  
@HWI-EAS443:3:29:906:839#0/1  
GATGCAGGTGCATTGACTGAAGATCCAGATGAAGGCACAT  
+HWI-EAS443:3:29:906:839#0/1  
aaaa`aa`[aaaaaaa`aaab\_\_a`\_\_`\_`\_`\_aa\_\_X`V\_^  
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CAGAATGAAGTGGATGATGGCAATGAGATACCCAATTACA  
+HWI-EAS443:3:29:917:1655#0/1  
`bbbab`Z]Mzb`\_b^[]W]W^`baaW\_¥baa`]\_aa\_



+HWI-EAS443:3:2:1157:415#0/1  
abbabbbbbbbaab^a]bbaa`aaaaa\_Xa]aa\_aaa^a  
@HWI-EAS443:3:2:1157:922#0/1  
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+HWI-EAS443:3:2:1157:922#0/1  
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+HWI-EAS443:3:2:1164:874#0/1
ab]aaaaa[^`a_]^U^a[X_] [SX¥_a^]_Sa^^¥ZU^_
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+HWI-EAS443:3:2:1166:1651#0/1
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+HWI-EAS443:3:2:1177:936#0/1
a_HUUa_PR¥``PKXR^WT¥_a¥`[[[_W_aW]WZ`BBB
@HWI-EAS443:3:2:119:1017#0/1
AAAGAAGTGAAGATCTAATGTGCGAGTCCCGCACTCGCG
+HWI-EAS443:3:2:119:1017#0/1
a`_RZ¥_aaab__b_`^aa_a^`_`a_U` [Y`aIZZUUVV
@HWI-EAS443:3:2:1206:548#0/1
CCGTTTTCGTTTCATTACCAACTACTCGTCCCCTTGCCCA
+HWI-EAS443:3:2:1206:548#0/1
a_SPbb`¥b```[aUaaa¥[_¥a^ [¥G`]`0_^__aRQ]X
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CGCACTCGCGAGATACTCACTAAGACCACTGTGGACCATA
+HWI-EAS443:3:2:1213:972#0/1
aa]a_bbba`aa[`aXab`aaa_`a__a`_`]PZ¥VV__`
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+HWI-EAS443:3:2:1241:1270#0/1
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@HWI-EAS443:3:2:1243:2043#0/1
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+HWI-EAS443:3:2:1243:2043#0/1
aZPK_H[Xb]_aaZ¥SVY_^X[R^_____]_UBBBBBBBB
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GTCCCGTTTTCGTTTCATTACCAACTACTCGTCCCCTTGCC
+HWI-EAS443:3:2:1311:684#0/1
^V^T[^V]a__M`UFZW¥__]___ZU__^]TTUZULV¥U
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+HWI-EAS443:3:2:1339:2035#0/1
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+HWI-EAS443:3:2:1343:1129#0/1
ab_abab`aa``b[^U¥``VY_XRX_]^[]YS]^[_WVU^

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+HWI-EAS443:3:2:138:91#0/1
aaaXaa_``_] ^X`]a_^^`U]^a]]^X^]¥X^TTBB
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+HWI-EAS443:3:2:1406:1289#0/1
aaaaaa_baaaaaaa_a__`aa`__[aXS¥]a]__WGZZY
@HWI-EAS443:3:2:1465:506#0/1
GTCCCCGTTTTCGTTTTATTACCAACTACGTCCCCCTTGC
+HWI-EAS443:3:2:1465:506#0/1
a^_]`b^_a`_a^_aX`____]`¥Y`X`X`XXXWUY]_U
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+HWI-EAS443:3:2:1477:180#0/1
a^a^a^_^^_^^_]WY`Y_] ^YXY]^]^UX]XYYVSRV
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+HWI-EAS443:3:2:1522:66#0/1
[^`^_a^aW[T^ZZ[^`^P]XZa_]`[a_a[KM¥LXQaBB
@HWI-EAS443:3:2:1549:88#0/1
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+HWI-EAS443:3:2:1549:88#0/1
a^b_Ya¥V¥_a_^ [SOW` `^^X`_V`]ZXUZV^ZXWZB
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+HWI-EAS443:3:2:1551:1500#0/1
aaabb¥`]`ab^bab` `baaaaab]_aZT_bb]NRZ_^Sa
@HWI-EAS443:3:2:1587:1327#0/1
GAGAAATGATGATGTTGACCAAAGTTTGATTATCGCTGCT
+HWI-EAS443:3:2:1587:1327#0/1
aOUTZRYaV¥aMJ¥W` `ROTZRZ]UU^_U^^^XVXW^[BB
@HWI-EAS443:3:2:1606:1218#0/1
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+HWI-EAS443:3:2:1606:1218#0/1
aaa`a` `^aba^aaYYUa_` `a^UUY^_TRZW_UZ¥XU¥U
@HWI-EAS443:3:2:1623:1685#0/1
AACAAGGACAAACCCTCTGGAGCAAAACAAACGATGCTGG
+HWI-EAS443:3:2:1623:1685#0/1
a` `baa]^ [aa[PXV` ¥` ZTT]T[XY]G__]NVZ[¥P¥` B
@HWI-EAS443:3:2:1627:454#0/1
AATCAAACCTTGGTCAACATCATCATTTCTCACTTCTCCT
+HWI-EAS443:3:2:1627:454#0/1
aaa^aaa^aaaa^__`^`^`^`^` `__W`Z`^X`[X_
@HWI-EAS443:3:2:1633:139#0/1
CATATCTCTTGTCTTCTTTGCCAAAATGAGAAATCCTCT
+HWI-EAS443:3:2:1633:139#0/1
ababb¥b`bba`^aa^baaa_` [`_aaa]`a_a` `^]`V_
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+HWI-EAS443:3:2:1638:196#0/1
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+HWI-EAS443:3:2:1651:236#0/1
ab_GR`bWZ¥aaabT]aa_]aa`_^R^`_Z_TW`UX¥_NR
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+HWI-EAS443:3:2:1679:1509#0/1
MaaS`U`Ua`S_] [a^_aa_a`_]aMEW[X_Z[^]]PUB
@HWI-EAS443:3:2:1703:1236#0/1
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+HWI-EAS443:3:2:1703:1236#0/1
[L_bb_a[bbb]^a]aab_abb] `b`aa^^TUb__Y[Y^M
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+HWI-EAS443:3:2:1717:886#0/1
abaab`babba`abbbbbbbaabbb[a_b`ba^a`a__aa`
@HWI-EAS443:3:2:1720:214#0/1
GTCCCGTTTTCTTTTATTACCAACTACGTCCCCTTGC
+HWI-EAS443:3:2:1720:214#0/1
a[JU¥a][ZIVVW_^MM[TTUWU^^YSVXSQFJGVQTUBB
@HWI-EAS443:3:2:1737:306#0/1
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+HWI-EAS443:3:2:1737:306#0/1
] `a`bab^bbaaaba]ba]aa¥[`U`]NWVSZY^]^[`X
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+HWI-EAS443:3:2:173:1741#0/1
X_aa]abUb_baaa_bb`abbaababb_VWaab_Xa]b^^
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+HWI-EAS443:3:2:1743:1357#0/1
aaa`^^aa^] `Xaa`XVbaaa]baY_a]_R_] [¥]__TL
@HWI-EAS443:3:2:209:1558#0/1
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+HWI-EAS443:3:2:209:1558#0/1
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+HWI-EAS443:3:2:218:1414#0/1
abbQI¥baaa¥T_`__VZ` [¥`]a] `aK]a[M` [^_`¥W
@HWI-EAS443:3:2:248:990#0/1
AATGTCGCAGTCCCGCACTCGCGAGATACTCACTAAGACC
+HWI-EAS443:3:2:248:990#0/1
a_^`YUZQaaR`XSR[0][ZTYV]^QW_¥JESGRVBBBBB
@HWI-EAS443:3:2:250:1136#0/1
CTGTCTGAGAGGATTTCTCATTTTGGGCAAAGAAGACAA
+HWI-EAS443:3:2:250:1136#0/1
aabaaaab`bbbbaaaaaaaabab`aaa`a`_`a`a`a`_`a`_`

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+HWI-EAS443:3:2:250:592#0/1
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GAGAGATCTAATGTCGCAGTCCCGCACTCGCGAGATACTC
+HWI-EAS443:3:2:258:519#0/1
a[SU__a[^_aS`^]]__¥XH_N_LLNNTTXUUXUUXYUB
@HWI-EAS443:3:2:298:1114#0/1
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+HWI-EAS443:3:2:298:1114#0/1
aaaaaaa^aa__`]aa`a___a]V]aUW¥a`_`]a[`HY]
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+HWI-EAS443:3:2:29:1907#0/1
a_T_[`]_a]Q__[_X_[[^\[¥`aa^][^\[¥^]^[Y]^X
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AGGGGACGTAGTGTGGTAATGAAACGAAACGGGACTCT
+HWI-EAS443:3:2:342:430#0/1
ababb`aT_VYbaa`H¥a]a[`b_]W_^¥H[_aWR^VU
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+HWI-EAS443:3:2:355:1901#0/1
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@HWI-EAS443:3:2:405:793#0/1
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+HWI-EAS443:3:2:408:462#0/1
^bbaaUY^_aa_a_a_Xaaba`aX[S`0aU]ZaQN_Q¥_
@HWI-EAS443:3:2:412:1672#0/1
AAAAGAAGTCTAATGTCGCAGTCCCGCACTCGC
+HWI-EAS443:3:2:412:1672#0/1
aaaba_aaaaa^a`aU_abaa`Z_```YY^]_U`]UY_¥^
@HWI-EAS443:3:2:415:845#0/1
GTTCACTTTCAAAGGACAAGCGGATCATCAGTCAAGAAA
+HWI-EAS443:3:2:415:845#0/1
a`aa`ba`aaa_]aa^a`aa^`[¥`Z`^`^`]_^____
@HWI-EAS443:3:2:435:1050#0/1
GTTTGTCTTGTTCATTCCTCTCTGGAATCATGTCCATTA
+HWI-EAS443:3:2:435:1050#0/1
aTa_a^]Y`a`P`a_Z_]`X_W^[[]`]]^]XXX^^^]
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AAAAGAAGTCTAATGTCGCAGTCCCGCACTCGC

+HWI-EAS443:3:2:512:1161#0/1
abaabaaWa_baaa`]\`aaa_a_\`_\`aX_Y¥_¥_[]_\`]
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+HWI-EAS443:3:2:535:1504#0/1
aaaabaa_aaaa_\`a`Za`aaa__a`_aQZ^]a]YZ^XaU
@HWI-EAS443:3:2:617:771#0/1
CACCATCAAGGGAGCAATTTTACAATCCTGGAGCTCTTCT
+HWI-EAS443:3:2:617:771#0/1
a`aaa]]aZ]aa_a_a¥aaa^aZ`^_Z_X`]Z^U^UZ_V]
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+HWI-EAS443:3:2:678:1496#0/1
]a_bbbbababbb`ba`bbbaabab`]`aabbab_Z]¥GUa
@HWI-EAS443:3:2:67:266#0/1
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+HWI-EAS443:3:2:67:266#0/1
aa^OV^W]Z]Y¥¥W¥_R^^`\`T]`YLOMQNMJJ]O]UBBB
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+HWI-EAS443:3:2:684:1090#0/1
aaaaaaaaabab^aa`_abaab`__Z_a[NY^^¥¥¥_¥`Q_
@HWI-EAS443:3:2:712:1165#0/1
GGTGGTTCACTTTCAAAGGACAAGCGGATCATCAGTCA
+HWI-EAS443:3:2:712:1165#0/1
U`Z^Y^PYab`]a¥Q`_URa[RJ`_`W`aV]U[SY]aSG^
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+HWI-EAS443:3:2:730:299#0/1
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+HWI-EAS443:3:2:730:699#0/1
aaaa`a`aa__a__^`_a__[_`]a_]__`_`_`[^Y^]`^
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GTCCCGTTTTTCGTTTCATTACCAACTACGTCCTTGC
+HWI-EAS443:3:2:736:729#0/1
a¥VZ_aXY]N¥aPZZUTVYXYWX]YUV`VX_YZUUUX^]B
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+HWI-EAS443:3:2:756:170#0/1
]b¥`W]`aYY_YP¥_S¥_UEW^]XSSUW¥¥T¥¥U¥UPBBB
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+HWI-EAS443:3:2:767:411#0/1
abaa`a`a`aaa`a_a_aa`a__`__XX]^_]O]^V
@HWI-EAS443:3:2:770:1968#0/1
GAGAATAAAAGAAGTCTGAGAGATCTAATGTCGCAGTCCCGC
+HWI-EAS443:3:2:770:1968#0/1
ab^`b`bbbaaaYa`bababa_abbab_a_ab¥IP_`^]

@HWI-EAS443:3:2:770:38#0/1
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@HWI-EAS443:3:2:781:852#0/1
CAGTCCCGCACTCGCGAGATACTCACTAAGACCACTGTGG
+HWI-EAS443:3:2:781:852#0/1
aa`aaaaaaa_aaaaa_````Wa¥_^`_`a`X¥]]_`^`X
@HWI-EAS443:3:2:782:779#0/1
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+HWI-EAS443:3:2:782:779#0/1
aabaa`a¥a`aa_a`_`aa`ab^`_`__aVR]_`]]Y]V_V
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`aaabb`_aabTbaaaabbaaaba__a_aa¥]^`^`a_X
@HWI-EAS443:3:2:890:767#0/1
GCCCTGAGTCAGTGCTAGTCAACACTTATCAATGGATAAT
+HWI-EAS443:3:2:890:767#0/1
¥^a_`ba_`^`^`a¥a]aXT¥aZ_R^`a_SX¥a_0[`_XZ
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+HWI-EAS443:3:2:897:831#0/1
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+HWI-EAS443:3:2:933:1258#0/1
a`Ub]`H`ba`a`]a[`____a]]^]`W¥Z[a^SXSNNZZB
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+HWI-EAS443:3:2:949:1349#0/1
ab_ab_aaaRbaba`_]a`¥aa`ba`__^YGX^_a``¥a^
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GTCCCGTTTTTCGTTTCATTACCAACTACGTCCCTTGC
+HWI-EAS443:3:2:95:288#0/1
a¥a_¥]Y_`_]`]T__U]_[`^Y_ZV¥PV¥M[NLWVVVYZB
@HWI-EAS443:3:2:976:244#0/1
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+HWI-EAS443:3:2:976:244#0/1
aaaa_aaaa____]a^a^a^^^`_`ZX_^_X^Y^]]XUYX
@HWI-EAS443:3:2:996:351#0/1
CTTGTGACCATTGAATTTTCACAATTTCCAGTTCCTGAT
+HWI-EAS443:3:2:996:351#0/1
aa_ZT`_WP`a_XYQY`aa__Z[SY`_`[[Y[`[VROV]UB
@HWI-EAS443:3:30:1010:1287#0/1
GAACCCCGCACTCAGAATGAAGTGGATGATGGCAATGAGA
+HWI-EAS443:3:30:1010:1287#0/1
```a]a`bba\_`]^`^`Z^\_]X\_UZZZ\_¥Y`[¥]]¥^]ZV  
@HWI-EAS443:3:30:1041:1352#0/1  
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+HWI-EAS443:3:30:1041:1352#0/1  
aa^aaaa`aa`aaa`aa\_`^`aa\_a^``^^^]aV]Y]]  
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+HWI-EAS443:3:30:1056:1318#0/1  
a`H¥Xa^`\_\_[aZ][\_`¥[[`Wa`Z^[a[\_V`TBBBBBB  
@HWI-EAS443:3:30:1081:1165#0/1  
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+HWI-EAS443:3:30:1081:1165#0/1  
aa`abaaaT]a]]`\_aa]`X\_```^`aW[\_\_\_¥WU^¥\_  
@HWI-EAS443:3:30:1110:1946#0/1  
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+HWI-EAS443:3:30:1110:1946#0/1  
a\_`aRU\_a\_]QUTU]\_[`¥[`YZ\_]a^[TVV\_\_VSVQNL  
@HWI-EAS443:3:30:1127:1862#0/1  
AAAGAAGTGCAGATCTAATGTCGCAGTCCCGCACTCGCG  
+HWI-EAS443:3:30:1127:1862#0/1  
]\_¥^`ba`aa\_b\_aVU¥\_U]a]]`Ub]Q[TYO^[U\_]YFV  
@HWI-EAS443:3:30:112:423#0/1  
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+HWI-EAS443:3:30:112:423#0/1  
abbaa`\_a\_aa`b]Z[Yaa`aaaa\_\_a^`Z]`Ya`aRU\_  
@HWI-EAS443:3:30:1137:638#0/1  
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+HWI-EAS443:3:30:1137:638#0/1  
`Y]Ua`aa```]a]a`aa`aa\_\_`aaaTY```\_]¥¥X]]  
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+HWI-EAS443:3:30:1141:836#0/1  
``baaa[abbab\_bbab`baaaaa^a\_aa`````\_]`^\_U\_  
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+HWI-EAS443:3:30:1186:1588#0/1  
a`a\_aa\_]R¥U]¥[WY`\_V\_¥¥W¥UV^UWWUZS[XUWWV^  
@HWI-EAS443:3:30:1209:75#0/1  
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+HWI-EAS443:3:30:1209:75#0/1  
^Z]P\_Z^`X\_aaa\_¥\_¥U]^]]WM[ZTVKSUZ[QSNBBB  
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+HWI-EAS443:3:30:1264:486#0/1  
aa`[\_a[¥^Ub^abaP`\_[WX\_¥VSS]^]Q\_^^XNWWOWQ  
@HWI-EAS443:3:30:1296:1190#0/1  
AAGAAGTGCAGATCTAATGTCGCAGTCCCGCACTCGCGA  
+HWI-EAS443:3:30:1296:1190#0/1  
W\_UU\_[ab\_^^W¥aba`aab`b^ab^QZa]]`^^^X]U¥  
@HWI-EAS443:3:30:1308:193#0/1  
TCCCGTTTTTCGTTTCATTACCAACTACGTCCCCCTTGCC  
+HWI-EAS443:3:30:1308:193#0/1  
YZ`\_a\_`^aW`\_`Y\_`a`a\_N\_\_V^¥\_\_WUW¥V[RSP¥BB

@HWI-EAS443:3:30:1321:1053#0/1  
CTGCTGTAATTGGGTATCTCATTGCCATCATCCACTTCAT  
+HWI-EAS443:3:30:1321:1053#0/1  
a#U\_aa]^`bb\_`^\$aaaa`UX\_a\_aaaa\_aaaa^`^^`  
@HWI-EAS443:3:30:1334:495#0/1  
GAATAAAAGAAGTCTAATGTCGCGAGTCCCCGCAC  
+HWI-EAS443:3:30:1334:495#0/1  
[OV\_X[M^]]V]Z`LL\$#[^YU]NUBBBBBBBBBBBBBBB  
@HWI-EAS443:3:30:1352:1342#0/1  
CTAGCACTGACTCAGGGCCATTGATCTCCCACATCATTGA  
+HWI-EAS443:3:30:1352:1342#0/1  
\_[]\_a\_S^aaa\_X][P`Y[]P[T#R[^[QUU`\_]]\$UQSV  
@HWI-EAS443:3:30:1370:1438#0/1  
ATGTGCCACAGCACAGATTGGAGGAGTAAGGATGGTGG  
+HWI-EAS443:3:30:1370:1438#0/1  
\$M`[]\_bab[ab`T^UP\_S^\$TT^V]X`aYa`^aMDTX  
@HWI-EAS443:3:30:1377:1839#0/1  
CTGCTGTCTGAGAGGATTTCTCATTGCGCAAAGAAGA  
+HWI-EAS443:3:30:1377:1839#0/1  
`^aaaa\_\_[a`\_\_^aaa`aa\_````\_`\_]a]aa^^\_W^\_  
@HWI-EAS443:3:30:1427:1048#0/1  
GTCGTTTGGTTGCCTTGTGTAATTGAATACTGGAGAATT  
+HWI-EAS443:3:30:1427:1048#0/1  
a[X`\_]``]\_\_`\_]`^WQX\$Z]^X\_Y[[W[\_\_\_X]X]Y\$  
@HWI-EAS443:3:30:1471:320#0/1  
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+HWI-EAS443:3:30:1471:320#0/1  
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GTCCCGTTTTCGTTTTATTACCAACTACGTCCCCTTGCC  
+HWI-EAS443:3:30:1487:947#0/1  
aZ`]Yb^a^\_\_aQ`^]Z\$[^YR`YMX]\_ZX[G\$^SNXXXU  
@HWI-EAS443:3:30:1505:1501#0/1  
TCCCGTTTTCGTTTTATTACCAACTACGTCCCCTTGCC  
+HWI-EAS443:3:30:1505:1501#0/1  
Ubb\$#P]ba\_\_abb`aabb`^bZab]\_aabXaa]`\_[\_Ya  
@HWI-EAS443:3:30:151:331#0/1  
CGTTTTCGTTTTATTACCAACTACGTCCCCTTGCCCAA  
+HWI-EAS443:3:30:151:331#0/1  
ab^]aW^a^\_a`\_\_^`^`\_\_aX]a\_WU]]Z\_XPP^W]XW  
@HWI-EAS443:3:30:1520:384#0/1  
GGTGCATTGACTGAAGATCCAGATGAAGGCACATCTGGGG  
+HWI-EAS443:3:30:1520:384#0/1  
a`Y\_U[aaaa^a`aa\_`\_VY^a\_]a\_\_\_^U\_``\_WW\_^X\_  
@HWI-EAS443:3:30:1539:1385#0/1  
CTGCTGTAATTGGGTATCTCATTGCCATCATCCACTTCAT  
+HWI-EAS443:3:30:1539:1385#0/1  
[P\_[ROLUHV^`\_\_WWZZVT`a`\$XTVX]0^Z^\_U\_YBBB  
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+HWI-EAS443:3:30:1552:496#0/1  
\_a]\_Z`Xbaaab`X]`\_aa\_a`\_^\_\_\_\_SVZ^aZT¥^VaWa  
@HWI-EAS443:3:30:1578:790#0/1  
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+HWI-EAS443:3:30:1578:790#0/1  
`^\_aaaa]`baabb^aaaa`aZaaa^a`\_`\_aa`¥UU]^  
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AAAGAAGTCTGAGAGATCTAATGTCGCAGTCCCGCACTCGCG  
+HWI-EAS443:3:30:1598:244#0/1  
XaSa\_VXa[\_aWUaaZabZbb^L\_SWYXTVQ\_¥WTZM¥V`  
@HWI-EAS443:3:30:159:1517#0/1  
AAAAGAAGTCTGAGAGATCTAATGTCGCAGTCCCGCACTCGCG  
+HWI-EAS443:3:30:159:1517#0/1  
`¥Z]V\_aa\_U\_¥¥]XWaa\_a]S\_[^^`¥XL[``V`U¥S^T\_  
@HWI-EAS443:3:30:1601:749#0/1  
GGATGATGGCAATGAGATACCCAATTACAGCAGACAAGAG  
+HWI-EAS443:3:30:1601:749#0/1  
abS\_aWX]^T``aa\_\_`a`\_^`\_a`\_Z^¥P^\_¥0]YXX^  
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CACTCGCGAGATACTACTAAGACCACTGTGGACCATATG  
+HWI-EAS443:3:30:1605:1606#0/1  
aa`ba[aa\_]a`^a^aa`a```N`^`V^R\_\_VWUX]¥  
@HWI-EAS443:3:30:161:349#0/1  
ATGGCAATGAGATACCCAATTACAGCAGACAAGAGAATAA  
+HWI-EAS443:3:30:161:349#0/1  
a`a`a`aaa``\_a\_\_\_\_`\_`^`\_\_\_\_^]X\_\_Z¥\_]ZZ^U  
@HWI-EAS443:3:30:162:1250#0/1  
CGAGATACTACTAAGACCACTGTGGACCATATGGCCATA  
+HWI-EAS443:3:30:162:1250#0/1  
a¥^^YR¥`\_aaa\_a[V^aa`\_YWR\_X^aaY]¥^^]Z¥VV  
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+HWI-EAS443:3:30:1639:650#0/1  
ab`a^b`bb`babbaXaab^\_aa`\_`^aZ\_aa`0]WZWY  
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ATCTAATGTCGCAGTCCCGCACTCGCGAGATACTACTAA  
+HWI-EAS443:3:30:1694:1331#0/1  
\_W`a\_^`\_NPaa`]RZ¥aYUHSPY`¥[VNRZ\_ZRUURUX^  
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GAATAAAGAAGTCTGAGAGATCTAATGTCGCAGTCCCGCAC  
+HWI-EAS443:3:30:1736:288#0/1  
aaaa\_a`ba\_aabaaaaY]Sa\_\_aaX[`S^a\_]W[WYZW  
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AAAGAAGTCTGAGAGATCTAATGTCGCAGTCCCGCACTCGCG  
+HWI-EAS443:3:30:1736:314#0/1  
aaaba¥\_baabaaaa]ba^aa\_[`]X^[YP[`] [VNV¥P¥  
@HWI-EAS443:3:30:187:360#0/1  
CCCGTTTTCTTTTCATTACCAACTACTCGTCCCTTGCCC  
+HWI-EAS443:3:30:187:360#0/1  
^a`ba\_abb\_babb]aaaa`a`abba\_`^`^V\_\_[¥\_



@HWI-EAS443:3:30:190:1586#0/1  
GTCGCAGTCCCGACTCGCGAGATACTACTAAGACCACT  
+HWI-EAS443:3:30:190:1586#0/1  
aWb`bbUZbba[`T`W`]a¥\_[a[a`]aa^aa^\_\_]\_¥[  
@HWI-EAS443:3:30:222:552#0/1  
GTTAGCACTTCTTCTTTCTTGACTGATGATCCGCTTG  
+HWI-EAS443:3:30:222:552#0/1  
a\_a[aa\_a\_a\_aaaaaa\_a\_aa\_\_a\_a\_^`\_\_^^¥^^\_  
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GGCGATCTGAACCTTGTCAATAGGGCAAACCAGCGACTG  
+HWI-EAS443:3:30:234:1856#0/1  
V\_b\_^Z`b00V`W\_]XTI\_`YNRXUW[``T`V[SWU`Z\_\_  
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+HWI-EAS443:3:30:247:417#0/1  
abaa`Uaaa]aa`aaXa¥NZ¥`a`WX``U\_\_\_\_^`]`^`WY]  
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+HWI-EAS443:3:30:271:727#0/1  
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+HWI-EAS443:3:30:281:843#0/1  
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@HWI-EAS443:3:30:286:216#0/1  
AAAATGAGAAATCCTCTCAGGACAGCAGACTCCACCCAG  
+HWI-EAS443:3:30:286:216#0/1  
¥SUI¥bba[aba\_X^RZ``abaaYa`[]H[Z\_¥a]XLZY¥  
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TGCTGTAATTGGGTATCTCATTGCCATCATCCAATTTCATT  
+HWI-EAS443:3:30:307:1174#0/1  
a\_baaa^[abaaYG]`a\_\_`\_\_\_\_`a\_\_\_\_a]`a\_\_]`^]Y\_]`  
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+HWI-EAS443:3:30:335:360#0/1  
\_aabbbbaaaabaa\_aab\_aaaaa`aa^a\_aa`]a``[``a  
@HWI-EAS443:3:30:344:1315#0/1  
GGCGTACATGCTAGAAAGAGAATTGGTCCGTAACAAGG  
+HWI-EAS443:3:30:344:1315#0/1  
aba\_^bba\_bbaa`^Y[`bb]b\_\_a\_`aa]`a\_aa`aa`\_  
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GGTGGTTCACTTTCAAAGGACAAGCGGATCATCAGTCA  
+HWI-EAS443:3:30:346:201#0/1  
ab\_aab\_aaaa`aaa`aaaa`\_``\_aa`^`aa``^a]W`  
@HWI-EAS443:3:30:360:1285#0/1  
CGGCTACTGGGAGAAACCTTGTGTTTACGGACCAATTCTCT  
+HWI-EAS443:3:30:360:1285#0/1  
aa\_a`a^YT^^Z[[aa]a^\_WY`\_\_\_\_[\_Z\_^`Z\_]^[VW  
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+HWI-EAS443:3:30:366:643#0/1  
ababaa`babaaa^a]`\_`R¥Z]`[\_`aX^\_WX]Z``^PU  
@HWI-EAS443:3:30:372:923#0/1  
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+HWI-EAS443:3:30:372:923#0/1  
a`aaaa]WX`]\_V^¥`\_`R\_NZFRSWWW[WSXUUWWQWVQ  
@HWI-EAS443:3:30:412:1004#0/1  
ATGTCCACCATCCTTACTCCTCCAATCTGTGTGCTGTGGC  
+HWI-EAS443:3:30:412:1004#0/1  
aaa\_aa`ba]aaa\_aaa`aaaa`\_\_`a\_\_^^]^^[N^U^  
@HWI-EAS443:3:30:412:293#0/1  
GTTCCCTCTTTGATCTCTAACCTTAAAAATCGGTCAATA  
+HWI-EAS443:3:30:412:293#0/1  
^\_bbbaaaa`a`^aa`a^aa`\_\_\_\_^`]\_\_\_\_\_¥]Z`]^Z\_  
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CGAGATACTCACTAAGACCACTGTGGACCATATGGCCATA  
+HWI-EAS443:3:30:420:1342#0/1  
aa\_`aaababaaabX\_\_abaa`aX`\_`abY\_\_\_\_`\_`\_aW\_  
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+HWI-EAS443:3:30:423:1612#0/1  
G]bb`a^`¥a`^\_a`]Y[[`\_YW]^`ba\_H[VI\_\_\_\_[ZU¥  
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+HWI-EAS443:3:30:471:1655#0/1  
`Ubb`^`b`aaab]abbSa`aS¥HbabY^ba\_b^¥Wa\_^  
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+HWI-EAS443:3:30:477:1964#0/1  
ab\_a^S\_b`K\_aa]FZa`\_aabRN¥a`a\_YU`YSQ^`YHX  
@HWI-EAS443:3:30:485:981#0/1  
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+HWI-EAS443:3:30:485:981#0/1  
abbbbb\_aaaab\_bb\_b^baaZaaa`\_abX]aaa\_K[[¥^  
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AAAGAAGTCTAATGTCGCAGTCCCGCACTCGCG  
+HWI-EAS443:3:30:513:523#0/1  
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CTGAGAGATCTAATGTCGCAGTCCCGCACTCGCGAGATAC  
+HWI-EAS443:3:30:553:1296#0/1  
ab^WababaaabbaaVaabb`V`a¥S¥H`\_`P`\_`^`¥RZZ  
@HWI-EAS443:3:30:561:246#0/1  
GCAACACTTCAATATAAACACTGCCTGTTCCGCCGGCTAC  
+HWI-EAS443:3:30:561:246#0/1  
aaaa`aaa^aaaaa`a^\_``Z``^]^^]\_^VX^YY  
@HWI-EAS443:3:30:569:1996#0/1  
GCGAGATACTCACTAAGACCACTGTGGACCATATGGCCAT  
+HWI-EAS443:3:30:569:1996#0/1  
ab]\_bbabb`bbba`aabbbb`RRZYaaaa\_a\_\_]X^\_Y

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+HWI-EAS443:3:30:581:864#0/1  
[aY]Vab¥Z`\_^`\_[a]¥aa]W¥a`aU]^]^^V^¥]^Z  
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AGAGAATAAAAGAACTGAGAGATCTAATGTCGCAGTCCCG  
+HWI-EAS443:3:30:588:1264#0/1  
a\_^aabaabba\_aaaaaa`aaaaa`aaa^a¥aa]]\_\_^V  
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GATGATCCGCTTGTCTTTTGAAGTGAACCCACCAAAC  
+HWI-EAS443:3:30:588:1892#0/1  
0¥`b\_Z\_\_Ua]a¥]a\_Yaaa]ab\_UX^`[Z\_b]b\_\_`aaR  
@HWI-EAS443:3:30:598:1469#0/1  
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+HWI-EAS443:3:30:598:1469#0/1  
aSS^W`]XQNQ]SWVG\_[[TYZ^SMa]`MR`W\_]XSFO\_R  
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+HWI-EAS443:3:30:614:349#0/1  
]SWb¥WX][]^\_S`\_a]R]a\_UR[`¥\_VU`]PTYLSWXQT  
@HWI-EAS443:3:30:626:1765#0/1  
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+HWI-EAS443:3:30:626:1765#0/1  
aT]a`X[N¥a`\_`Z^a[`a\_`a^``aa\_\_`\_Y\_\_\_WYTY  
@HWI-EAS443:3:30:630:1270#0/1  
GAATTGCCTCTTACCAGTATCCTCAACCCTGATCCTCTCA  
+HWI-EAS443:3:30:630:1270#0/1  
\_V¥ZZ`\_aY``\_[aaa]\_a`^``aZa\_aa`X^[][\_`^`  
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GGACGTAGTGTGGTAATGAAACGAAAACGGGACTCTAGC  
+HWI-EAS443:3:30:65:1545#0/1  
aa`a\_\_a\_XWYaaa]aa[[`aa]\_]``¥U[[V]]`[WOW  
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CTGCTGTAATTGGGTATCTCATTGCCATCATCCACTTCAT  
+HWI-EAS443:3:30:668:397#0/1  
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+HWI-EAS443:3:30:673:404#0/1  
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+HWI-EAS443:3:30:72:1457#0/1  
a``aYRWR`a\_b`\_¥X¥`]0¥a]\_]Y\_a¥a\_^`\_¥ZI`\_^  
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+HWI-EAS443:3:30:740:1154#0/1  
aaba aaa``a¥a\_`\_]`ab`aaY`¥`\_\_]\_\_`U\_N\_Y^UY]  
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+HWI-EAS443:3:30:741:2012#0/1  
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+HWI-EAS443:3:30:753:292#0/1  
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ATCCTCAACCCTGATCCTCTCACATTCACAGTCAATGAGG
+HWI-EAS443:3:30:797:263#0/1
aa]a_]aba`ZOZWR]TWX]V]UR`^WZNG]PX`SWY¥WR
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GAACTGAGAGATCTAATGTCGCAGTCCCGCACTCGCGAGA
+HWI-EAS443:3:30:813:33#0/1
YZ]]¥a]a`aa^T[^¥YX¥[_VXVSTSWYP¥ZUTROB
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+HWI-EAS443:3:30:836:682#0/1
aaaa^a`baab`a`_aaaa]````¥]`Z^_`_]_T[X_
@HWI-EAS443:3:30:845:654#0/1
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+HWI-EAS443:3:30:845:654#0/1
aa^baab`bbbbbb`a`baabb^a`a`_`_a]_R_[]Z
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+HWI-EAS443:3:30:882:1756#0/1
`YO`_`a`aa`ab`ab_a¥a]_a`_`Ta]_]_aa^¥X_]`^
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TCGTTTCATTACCAACTACGTCCCCTTGCCCAATTAGC
+HWI-EAS443:3:30:925:1502#0/1
aa`_]`abbaabbabYa`aabba]`_]`a`^_a__aa[[_Z_
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+HWI-EAS443:3:30:943:1804#0/1
a_b^Q^abYa`X^¥UXb^[_ZaZW]`a[^PYNPXU`]U]_
@HWI-EAS443:3:31:1028:972#0/1
GTCCCGTTTTTCGTTTCATTACCAACTACGTCCCCTTGC
+HWI-EAS443:3:31:1028:972#0/1
_PaYY_OUW][a`[[QZ]ZYY[_`Y`W¥]]^PX]ZYPMZW
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+HWI-EAS443:3:31:1066:1546#0/1
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@HWI-EAS443:3:31:106:251#0/1
CGCGAGATACTCACTAAGACCACTGTGGACCATATGGCCA
+HWI-EAS443:3:31:106:251#0/1
abb]_a`_a`_aa^]`_`aa`^^W^W]`a^^_Z^^¥^U

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+HWI-EAS443:3:31:1075:1601#0/1
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GGGACGTAGTGTGGTAATGAAACGAAAACGGGACTCTAG
+HWI-EAS443:3:31:107:514#0/1
^aa__ba[_[_¥b`_VX_¥_[¥a¥^WYa`^_V¥Y][Z][H
@HWI-EAS443:3:31:1101:1315#0/1
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+HWI-EAS443:3:31:1101:1315#0/1
aaaaaaaaa^_]a`ZR`W`_]_]_N__^ZV]]`_X_X^X
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+HWI-EAS443:3:31:110:260#0/1
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@HWI-EAS443:3:31:1111:784#0/1
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+HWI-EAS443:3:31:1111:784#0/1
abb¥Q__Y^_aa`^^`[_¥]]^YNY`Y[^[VY`Xa_^¥[V
@HWI-EAS443:3:31:1147:1429#0/1
TATTGACAAAGTTCAGATCGCCCCTAACTGCCTTGATCAT
+HWI-EAS443:3:31:1147:1429#0/1
``aaYXV_¥I]_`a]TZaZYQX_`^`^^]NWW¥¥`¥Xa¥
@HWI-EAS443:3:31:1147:1977#0/1
CTAATGTCGCAGTCCCGCACTCGCGAGATACTCACTAAGA
+HWI-EAS443:3:31:1147:1977#0/1
ab_¥`b]b^ba]`baaa`U_`aa¥a_aa_a¥___SZa_P^
@HWI-EAS443:3:31:1196:683#0/1
TGAGAAATGATGATGTTGACCAAAGTTTGATTATCGCTGC
+HWI-EAS443:3:31:1196:683#0/1
ababababbabbaabaaaaaa[_a¥aaaaa`a``a_`aY
@HWI-EAS443:3:31:120:2006#0/1
AGAGAATAAAAGAACTGAGAGATCTAATGTCGCAGTCCCG
+HWI-EAS443:3:31:120:2006#0/1
T]¥T]aUaa`a]aaa`a``a`aY``a_`[_XaGaa_U`VaV
@HWI-EAS443:3:31:124:588#0/1
CAACACTTCAATATAAACACTGCCTGTTCCGCCGGCTACT
+HWI-EAS443:3:31:124:588#0/1
a¥[[_`bb¥aZ_Y`b_Wabaaaa_Taa`ab_]bX[[]
@HWI-EAS443:3:31:1250:240#0/1
ACCACTGTGGACCATATGGCCATAATCAAAAAGTACACAT
+HWI-EAS443:3:31:1250:240#0/1
aaaaabaYaa[_`aaa_a]^_^_`__^``a__YX]GUP_X
@HWI-EAS443:3:31:1266:1433#0/1
CATGTCGGGCAGTATTCCGATCATTCCCATCACATTGTGCG
+HWI-EAS443:3:31:1266:1433#0/1
abbaaa_Z_bb^S_bbaaaa`aba]aaaaa`aaaa`a_
@HWI-EAS443:3:31:1272:1202#0/1
GAATAATGGACATGATTCCAGAGAGGAATGAACAAGGACA

@HWI-EAS443:3:31:158:1973#0/1
TTCAATTACAACAAGGCAACCAAACGACTTACAGTTCTTG
+HWI-EAS443:3:31:158:1973#0/1
`abb`aabb`a_aU[`aa`^`a`_S^`_`][`YX]]a^]G
@HWI-EAS443:3:31:1620:837#0/1
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+HWI-EAS443:3:31:1620:837#0/1
aaa`baaaa_baaa`aaaaaU`a]a¥]a^a^ZVZY^__¥U
@HWI-EAS443:3:31:1648:525#0/1
GCACCTTTTGCATCTTTTTGGAAATGCCTCAAGAGTTGGTG
+HWI-EAS443:3:31:1648:525#0/1
`XaVa¥a_a_aPD¥``]T][V^ZT`RPV]Y)`Y_UZZWUZ
@HWI-EAS443:3:31:1675:869#0/1
GTCCATTATTCTTGTCTGCTGTAATTGGGTATCTCATT
+HWI-EAS443:3:31:1675:869#0/1
T^_b`bbX`b^aSa`T^bbbaa^`aba^Za`K`ZQY`b`a
@HWI-EAS443:3:31:1693:1541#0/1
TGCTGTAATTGGGTATCTCATTGCCATCATCCACTTCATT
+HWI-EAS443:3:31:1693:1541#0/1
aa`ba^aabbab][aa_a`a`_a`_a_a___a````_`^
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GAGAATAAAAGAACTGAGAGATCTAATGTCGAGTCCCGC
+HWI-EAS443:3:31:1698:1348#0/1
G[Y[^bbbabZZ[Y^[[Ub[YYWZ^[b]SZ¥[YZNISS¥K
@HWI-EAS443:3:31:1778:1719#0/1
GGGACGTAGTGTGGTAATGAAACGAAAACGGGACTCTAG
+HWI-EAS443:3:31:1778:1719#0/1
ab`US]WU¥Za]_`aUXZ]_]`G[^Z^_]`^Y_UVXYXX]
@HWI-EAS443:3:31:1783:998#0/1
GAGCTAATCCTCAACCCTATTGCTGCCTTGCATATGTCTA
+HWI-EAS443:3:31:1783:998#0/1
`Z_`]`_`U^````^^^bY`[`V]][]aV^]Xa`_`a_`^`^
@HWI-EAS443:3:31:1786:1947#0/1
AAGAACTGTAAGTCGTTTGGTTGCCTTGTGTAATTGAAT
+HWI-EAS443:3:31:1786:1947#0/1
ab`[`_abZbaaaWU^`b_a^_]_W]^a`^`^`_Y]^R[]`
@HWI-EAS443:3:31:183:16#0/1
GCGGGATGTGCTTGGGACATTTGACACTGTCCAAATAATA
+HWI-EAS443:3:31:183:16#0/1
¥]^]ZN[¥V]XF[_`_YX[YW_`¥V]]]WY^YS¥SYNY¥
@HWI-EAS443:3:31:200:1708#0/1
CCCGTTTTCGTTTCATTACCAACTACGTCCCCTTGCCC
+HWI-EAS443:3:31:200:1708#0/1
abb^U`aaba`__aaa`aaaa]aaa^^a[^aa`a_[W^__
@HWI-EAS443:3:31:232:1754#0/1
CACTCGCGAGATACTCACTAAGACCACTGTGGACCATATG
+HWI-EAS443:3:31:232:1754#0/1
aaa`a[____[^OW`_a____a`V_`_`_XMOM]^`_`^VRWX
@HWI-EAS443:3:31:244:914#0/1
CATATCTCTTGTCTTCTTTGCCAAAATGAGAAATCCTCT

+HWI-EAS443:3:31:244:914#0/1
`XW0¥][[X]`¥a_abW_] ^Y`aWSJZY_aa^_V`_` ^]
@HWI-EAS443:3:31:245:428#0/1
GAGAGAATAAAAAGAACTGAGAGATCTAATGTCGCGATCCC
+HWI-EAS443:3:31:245:428#0/1
`¥]abY^baa_baaaaaaH`ba`a`a¥`a]`_aa]]_--]
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TGAAGATCCAGATGAAGGCACATCTGGGGTGGAGTCTGCT
+HWI-EAS443:3:31:249:2036#0/1
]O]bW` `a`a]¥]X_Za`_^]aa`PXMTJF[TY_Z_SNaW
@HWI-EAS443:3:31:251:908#0/1
CGCGAGATACTCACTAAGACCACTGTGGACCATATGGCCA
+HWI-EAS443:3:31:251:908#0/1
aabb`_¥_aaab_bab`]`baabab_a]`a]Q]a_] ^aaa
@HWI-EAS443:3:31:289:1725#0/1
GAGAAATCCTCTCAGGACAGCAGACTCCACCCAGATGTG
+HWI-EAS443:3:31:289:1725#0/1
`aab]baabababbaaaaaZab`^`a`bbbbbaa`^a]_V]
@HWI-EAS443:3:31:309:1871#0/1
ATCTAATGTCGCGATCCCGCACTCGCGAGATACTCACTAA
+HWI-EAS443:3:31:309:1871#0/1
a¥a[a__VUa¥_PRS¥_aWZKZS[R^SUSQUUWVSU_BBB
@HWI-EAS443:3:31:314:399#0/1
AGATCCAGATGAAGGCACATCTGGGGTGGAGTCTGCTGTC
+HWI-EAS443:3:31:314:399#0/1
]¥_aba` `aRaa` `¥`aaa`_` `Y[`WZZ_]N_¥_¥¥_WW
@HWI-EAS443:3:31:316:177#0/1
GAAAGAAGAGCTCCAGGATTGAAAATTGCTCCCTTGATG
+HWI-EAS443:3:31:316:177#0/1
aa]ba[aa`aaaa`aa`_a__ `__a`^` `^]]]Y_¥^_
@HWI-EAS443:3:31:330:1534#0/1
AAAAGAACTGAGAGATCTAATGTCGCGATCCCGCACTCGC
+HWI-EAS443:3:31:330:1534#0/1
`b¥_X`aa`ab_aXa_a`_a` `^a[`a^] `a¥a]_Y`¥^
@HWI-EAS443:3:31:336:992#0/1
ATCAACTCTCCTCCTTATTTAACTTGATTTCTGAAGTGG
+HWI-EAS443:3:31:336:992#0/1
ZR_^ [^^`ab` `baa`a^^_a`_]aa`ZZa`aaa]X_¥]`
@HWI-EAS443:3:31:33:632#0/1
CCCGTTTTCGTTTTATTACCAACTACGTCCTTCCCC
+HWI-EAS443:3:31:33:632#0/1
aaaa¥Y`_]` [__WLW^ [__]^¥Z¥W^]VLSW[¥BBBBBB
@HWI-EAS443:3:31:34:1061#0/1
TGGGTTCACTTTCAAAGGACAAGCGGATCATCAGTCAAG
+HWI-EAS443:3:31:34:1061#0/1
abaa^abbaaa_aaabaa`aaaZaaa`_` ```` `a`]` ` ^[
@HWI-EAS443:3:31:353:227#0/1
GCCCCAAAATGAGAAATCCTCTCAGGACAGCAGACTCCACC
+HWI-EAS443:3:31:353:227#0/1
abbabababbbbaabaabbababaaaaaaa`a`a__

@HWI-EAS443:3:31:353:588#0/1
TGGTCTTAGTGAGTATCTCGCGAGTGC GGGACTGCGACAT
+HWI-EAS443:3:31:353:588#0/1
]```baa^`a`[_`ba¥X`^Z`a_VPP^_XZV_^][V^`^]
@HWI-EAS443:3:31:355:228#0/1
CCCCGTTTTCGTTTTATTACCAACTACGTCCCCCTTGCCC
+HWI-EAS443:3:31:355:228#0/1
aaab_`aaab[aaaaaaaaaaaa_a_aa`¥]_^_]Y]]¥V
@HWI-EAS443:3:31:370:1757#0/1
GAGGAACAAGCCGTAGACATATGCAAGGCAGCAATAGGGT
+HWI-EAS443:3:31:370:1757#0/1
abaaaba`aZaba_a_aaa`a__a_US]a____]Z^`X_0
@HWI-EAS443:3:31:469:2045#0/1
GGGGACGTAGTGTGGTAATGAAACGAAAACGGGACTCTA
+HWI-EAS443:3:31:469:2045#0/1
ab_bbb`_a`]`_a`Uaaa][baa__`aa__YY`^^^Y_
@HWI-EAS443:3:31:474:719#0/1
GAACAAGGACAAACCCTCTGGAGCAAAACAAACGATGCTG
+HWI-EAS443:3:31:474:719#0/1
a`a_WWWZ_a^0^]aaaa_[_]`a]¥W`^_Z¥a`__`_`
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GTTTTCGTTTTATTACCAACTACGTCCCCTTGCCCAAT
+HWI-EAS443:3:31:510:895#0/1
aL]Z]aYSX`YW_]_[_YYY^____][VWZ[BBBBBBBBBB
@HWI-EAS443:3:31:533:105#0/1
CTCCCCTTTGCTGCTGCCACCAGAACAGAGTAGGATGC
+HWI-EAS443:3:31:533:105#0/1
aaabbabaaa^aa^`aaZ`a]`_`a____^a__S__^^W_W
@HWI-EAS443:3:31:535:532#0/1
GCGGGATGTGCTTGGGACATTTGACTGTCCAAATAATA
+HWI-EAS443:3:31:535:532#0/1
aabbaabbabaaaab_aabaaaaaaaaa`a`X`aaaa`
@HWI-EAS443:3:31:601:1538#0/1
GTCCCCTTTTTCGTTTTATTACCAACTACGTCCCCCTTGC
+HWI-EAS443:3:31:601:1538#0/1
¥¥`a¥Xabbba`IaT_``aaaa`ab`ab`_`a¥_Y^]
@HWI-EAS443:3:31:630:1056#0/1
TGGTATTCTACAAGAGGATTGCATGATCAAGGCAGTTAG
+HWI-EAS443:3:31:630:1056#0/1
WWRNa]__¥__`Z`ba]_¥`_aWYU`a`]`Y`X_HV`Y
@HWI-EAS443:3:31:665:2010#0/1
CCCCGTTTTCGTTTTATTACCAACTACGTCCCCCTTGCCC
+HWI-EAS443:3:31:665:2010#0/1
aa^QQ^P¥S[OZ__SZYJ_[_Y]_NU¥YJFNVU^WRFVSB
@HWI-EAS443:3:31:668:327#0/1
GACCGATTTTTAAGGGTTAGAGATCAAAGAGGGAACGTAC
+HWI-EAS443:3:31:668:327#0/1
`_aaaaabbbaaa^aaWabbbaaaaaaaaaaaa`_a_a[a^
@HWI-EAS443:3:31:670:1016#0/1
TGCTGTCCTGAGAGGATTTCTCATTTTGGGCAAAGAAGAC

+HWI-EAS443:3:31:670:1016#0/1
aab`a^abaa]aaaaQ]a_aa`aaaa`a`aaa___^`a_
@HWI-EAS443:3:31:693:1268#0/1
CCGTTTTCGTTTCATTACCAACTACGTCCCCTTGCCCA
+HWI-EAS443:3:31:693:1268#0/1
abaa`bbaaabbbbbbaabbbbaabbaabbaabbbb[
@HWI-EAS443:3:31:732:39#0/1
CACTCGCGAGATACTACTAAGACCACTGTGGACCATATG
+HWI-EAS443:3:31:732:39#0/1
abbbbbbbbabbaaaaaa`baaaa`aa^^Z¥X__[_^_^]
@HWI-EAS443:3:31:754:106#0/1
ATCTAATGTCGAGTCCCGCACTCGCGAGATACTACTAA
+HWI-EAS443:3:31:754:106#0/1
aaaabaab_aaaaa___`¥_¥_^¥_]_V^[¥WTVV¥WWZW
@HWI-EAS443:3:31:788:645#0/1
TCCCGTTTTCGTTTCATTACCAACTACGTCCCCTTGCC
+HWI-EAS443:3:31:788:645#0/1
aabbb¥_bbab^a`aa`aba`aa_a`a`^`^____^¥V
@HWI-EAS443:3:31:814:794#0/1
CAAGGACAAACCCTCTGGAGCAAAACAAACGATGCTGGAT
+HWI-EAS443:3:31:814:794#0/1
abbbbbbbbabbbbbbaab`b_aabb`abaaaa`b`a
@HWI-EAS443:3:31:822:1964#0/1
CTTCATACCCTTCATGTACTCTTATTTTCAGTGTGGAG
+HWI-EAS443:3:31:822:1964#0/1
aa_bbabbaZ`^aaaa]`aa`_`a^^`baab_a_a`a]
@HWI-EAS443:3:31:828:1776#0/1
TCGTTTCATTACCAACTACGTCCCCTTGCCCAATTAGC
+HWI-EAS443:3:31:828:1776#0/1
aba`aabbbabaaba[aa`baYX`aaa]_^_a^WY^TD
@HWI-EAS443:3:31:843:939#0/1
TCCCGTTTTCGTTTCATTACCAACTACGTCCCCTTGCC
+HWI-EAS443:3:31:843:939#0/1
I_aa_[_W_b^Uabb`b`abababbaa]a`aXY¥]a_U_`
@HWI-EAS443:3:31:856:967#0/1
AGTGGTCTTAGTGAGTATCTCGCGAGTGGGACTGCGAC
+HWI-EAS443:3:31:856:967#0/1
`_MOWZ`_]_ZWR^_aR^`]]][¥VZVZZY_]YRSY¥]SP
@HWI-EAS443:3:31:874:983#0/1
AAGAAGTGGAGATCTAATGTCGAGTCCCGCACTCGCGA
+HWI-EAS443:3:31:874:983#0/1
`a`aaaa_a_aaaa`aaaa^`aa`a¥^aa¥`V]¥____]Z
@HWI-EAS443:3:31:880:1851#0/1
ATTTTACAATCCTGGAGCTCTTCTTTCTTCTTTTGTTA
+HWI-EAS443:3:31:880:1851#0/1
^]X[`baaa`_¥VR`_RVZaaa_¥b`a¥a__`]XS¥Z
@HWI-EAS443:3:31:935:461#0/1
CTAATGTGCTAATTGGGCAAGGGGACGTAGTGTGGTAAT
+HWI-EAS443:3:31:935:461#0/1
abbabb¥babbbbbbaaaaaabaa_ab_ab_a]b`aR``_`

@HWI-EAS443:3:31:960:1841#0/1
CAAACGATGCTGGATCAGACCGAGTGATGGTATCACCTCT
+HWI-EAS443:3:31:960:1841#0/1
aabbba`a`aa_`a_bb¥aba[a^T`a__`U___^Z]]_W
@HWI-EAS443:3:31:967:166#0/1
ATTCCGATCATTCCCATCACATTGTCGATGGATTCAATTC
+HWI-EAS443:3:31:967:166#0/1
``_bb```a^b]a¥XYX[]^aaa_]a`^b_YT^SXZ^¥0
@HWI-EAS443:3:31:974:1271#0/1
ATTATGGCCATATGGTCCACAGTGGTCTTAGTGAGTATCT
+HWI-EAS443:3:31:974:1271#0/1
aaaWZ]aabZHZ`¥`[_^]VM¥[J__aX¥PZXTNX_BB
@HWI-EAS443:3:31:983:1519#0/1
ACCAGAACAGAGTAGGATGCAATTTTCCTCATTGACTGTG
+HWI-EAS443:3:31:983:1519#0/1
aaaba`aaaa`_]a`a_`aa`_aa_`__`a`a```^`_`Z_
@HWI-EAS443:3:31:993:1525#0/1
CCCGTTTTCGTTTCATTACCAACTACGTCCCCTTGCCC
+HWI-EAS443:3:31:993:1525#0/1
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@HWI-EAS443:3:32:1055:1165#0/1
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+HWI-EAS443:3:32:1055:1165#0/1
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@HWI-EAS443:3:32:1055:224#0/1
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+HWI-EAS443:3:32:1055:224#0/1
aa^V_V[`a[a`aZT_]T_UZV^]V¥X]YY]]YY]Y^XYX
@HWI-EAS443:3:32:1079:942#0/1
ACTGAAGATCCAGATGAAGGCACATCTGGGGTGGAGTCTG
+HWI-EAS443:3:32:1079:942#0/1
abaaabaaaaa¥V`a__`¥``__¥a¥P[_T_^Y[_^]
@HWI-EAS443:3:32:1093:1980#0/1
GTGGATGATGGCAATGAGATACCCAATTACAGCAGACAAG
+HWI-EAS443:3:32:1093:1980#0/1
`Y^¥a_Yba^X`]R^¥__W`[a^^`_[^X`_``_]a^^Z
@HWI-EAS443:3:32:1100:19#0/1
CATTACCAACTACGTCCCCTTGCCCAATTAGCACATTA
+HWI-EAS443:3:32:1100:19#0/1
aaaabaabb`baaa`a`_`_`¥X][VY```^_`W`V``^¥
@HWI-EAS443:3:32:1105:1461#0/1
CACTCGCGAGATACTACTAAGACCACTGTGGACCATATG
+HWI-EAS443:3:32:1105:1461#0/1
abaababbabaa`ababaabbaaaaaa^^[aUa]a^`__a
@HWI-EAS443:3:32:110:334#0/1
GAGAATAAAAGAAGACTGAGAGATCTAATGTCGCAGTCCCGC
+HWI-EAS443:3:32:110:334#0/1
a^aX`V`aYZZ¥__¥[]Va__^`^____V^V^_`X[¥^WW
@HWI-EAS443:3:32:1167:898#0/1
GTCCATTATTCTTGTCTGCTGTAATTGGGTATCTCATT

+HWI-EAS443:3:32:1167:898#0/1
aZ`OLUVZZZ^SFVS]OLOPKITROTYZYZ[OWUBBBBBB
@HWI-EAS443:3:32:1186:1332#0/1
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+HWI-EAS443:3:32:1186:1332#0/1
___a^a`aaa`Vaa`___`aaZJX_U^ZXY`_[Y[U]_^Z
@HWI-EAS443:3:32:1196:872#0/1
TGTCGCAGTCCCGCACTCGCGAGATACTACTAAGACCAC
+HWI-EAS443:3:32:1196:872#0/1
aa]a`aaa`_a`^X¥[^Z^_[^^^UY^¥¥¥¥[YTY`P^_
@HWI-EAS443:3:32:1208:385#0/1
ATAACATTGTGGGATCTTGTGACCATTGAATTTTCACAAT
+HWI-EAS443:3:32:1208:385#0/1
abba`aabbaaaaaabab`aa__aaaa_aab```abaa
@HWI-EAS443:3:32:1216:382#0/1
CACATTGTCGATGGATTCAATTCCCCAGTTCTGGAAAAGC
+HWI-EAS443:3:32:1216:382#0/1
abbabbbaa]baabaaa`baba`^^^_aaaaa`__Y_a_
@HWI-EAS443:3:32:1227:1628#0/1
GGTGGGTTCACTTTCAAAGGACAAGCGGATCATCAGTCA
+HWI-EAS443:3:32:1227:1628#0/1
abQb`a]_bbba`aab¥^aa`a]^`^RU_Xaa_[__a`
@HWI-EAS443:3:32:1246:155#0/1
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+HWI-EAS443:3:32:1246:155#0/1
`]b]G0a_VR[aaaaYaa^WRF[KPV``Z^¥W[Q]_Q`a_
@HWI-EAS443:3:32:1298:1217#0/1
CTGTAATTGGGTATCTCATTGCCATCATCCACTTCATTCT
+HWI-EAS443:3:32:1298:1217#0/1
ab`W`aaaaab_abab`abW`baaa^aaa[]`baaaa_ba
@HWI-EAS443:3:32:1313:1175#0/1
ATAAAAAGAAGTCTAATGTCGCAGTCCCGCACTC
+HWI-EAS443:3:32:1313:1175#0/1
aab`aaaa`aa`a`a`aaaaa]Z```_]^_¥_RH¥^_
@HWI-EAS443:3:32:1328:1315#0/1
GTGCAACTTCAATATAAACTGCCTGTTCCGCCGGCT
+HWI-EAS443:3:32:1328:1315#0/1
`V]Paa_a`a`a`a`__a__^__¥_¥¥`¥__U`U__B
@HWI-EAS443:3:32:1353:1459#0/1
ATGTCGCAGTCCCGCACTCGCGAGATACTACTAAGACCA
+HWI-EAS443:3:32:1353:1459#0/1
aaa````ba_aa_^`_`a`_a`¥^^^¥`V_¥`^`X]_aa
@HWI-EAS443:3:32:1381:271#0/1
GTTCTGATTATCCATTGATAAGTGTGACTAGCACTGAC
+HWI-EAS443:3:32:1381:271#0/1
a`b]```aabaabT]`aaa`a`^a¥a`_a]W^`_V_Ya]``
@HWI-EAS443:3:32:139:1988#0/1
AAAGAAGTCTAATGTCGCAGTCCCGCACTCGCG
+HWI-EAS443:3:32:139:1988#0/1
a[[]W^`_`^UaY]WWW`[]XW^Q¥VRX]^¥S[X_X]VYW

@HWI-EAS443:3:32:139:427#0/1
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+HWI-EAS443:3:32:139:427#0/1
aabb`]`_]aRZaa`bba_`abZa_S¥_`SWJPY]_ZI[N
@HWI-EAS443:3:32:1418:1069#0/1
CTCTGATGTCAGTATTCTTGCCCCACTTCATTTGGGAAA
+HWI-EAS443:3:32:1418:1069#0/1
aaaabaaaa`b_XZ_b`^Yaa]W¥[^[a__]_`[]W¥]ZY
@HWI-EAS443:3:32:1445:1192#0/1
ATCATTTCTCACTTCTCCTCCTGGAGTGTACATCTGCTCC
+HWI-EAS443:3:32:1445:1192#0/1
aa`aa^_]¥^`]YU[¥a[¥]^PV^U_[_YY]STQ¥[Y[
@HWI-EAS443:3:32:145:714#0/1
GAATAAAAGAACTGAGAGATCTAATGTCGAGTCCCGCAC
+HWI-EAS443:3:32:145:714#0/1
]a`bbbbabbbbbbbbaabbbbb`babaa_aba_aU_
@HWI-EAS443:3:32:1549:249#0/1
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+HWI-EAS443:3:32:1549:249#0/1
ab^`ab`ba_abaabaa`a`a_aa¥a__aY¥`a¥_¥¥a_a
@HWI-EAS443:3:32:1586:1759#0/1
CGTTTTCGTTTTATTACCAACTACGTCCCCTTGCCCAA
+HWI-EAS443:3:32:1586:1759#0/1
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@HWI-EAS443:3:32:1595:445#0/1
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+HWI-EAS443:3:32:1595:445#0/1
abaaaaaba¥ab`bba]aaa`aa_`__`^a_a__]YG^Z`
@HWI-EAS443:3:32:1598:1350#0/1
ATTTGGGAAAACAACCTCCATAATCACATCCTGTGCCTCC
+HWI-EAS443:3:32:1598:1350#0/1
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@HWI-EAS443:3:32:1638:1615#0/1
CTGCTGTAATTGGGTATCTCATTGCCATCATCCACTTCAT
+HWI-EAS443:3:32:1638:1615#0/1
aab^bbaabbbbb¥aa`a`aaaa^S`a__a¥__W_a_`a
@HWI-EAS443:3:32:163:1602#0/1
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+HWI-EAS443:3:32:163:1602#0/1
a_`_aU¥ZW`M_`^U__U]KYWYPWRVV¥UU¥W[U^XZW
@HWI-EAS443:3:32:1647:1200#0/1
CTGAAATGGTTCAAATCCATTTTGTGTATAACATTGTG
+HWI-EAS443:3:32:1647:1200#0/1
a_TTSaZ^J`[aaXSX]UNOX[[VX]]NHa]]QGY_¥Ta_
@HWI-EAS443:3:32:164:306#0/1
CTAATGTGCTAATTGGGCAAGGGACGTAGTGTGGTAAT
+HWI-EAS443:3:32:164:306#0/1
aZU]``¥^ba]aVLYXaaa¥`^VXX_aUYYU_X]]^NLJR
@HWI-EAS443:3:32:1650:1085#0/1
AATGAAGTGGATGATGGCAATGAGATACCCAATTACAGCA

+HWI-EAS443:3:32:1650:1085#0/1
`b`baba]¥X^W`R_aaZV]¥_Z[^`VQOFTXbTaT¥VZ¥
@HWI-EAS443:3:32:1661:818#0/1
CAAACCTTTGGTCAACATCATCTTTCTCACTTCTCCTCCT
+HWI-EAS443:3:32:1661:818#0/1
J_ba¥```_¥T_ba`aa^baVa_[]S_`¥N`_`X`¥[[]]
@HWI-EAS443:3:32:1671:401#0/1
CCCGTTTTTCGTTTCATTACCAACTACGTCCCCTTGCCC
+HWI-EAS443:3:32:1671:401#0/1
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@HWI-EAS443:3:32:1689:1460#0/1
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+HWI-EAS443:3:32:1689:1460#0/1
ab]_]bbbbaa^X``a`abab`a_`a_bbaaV_TbHbYba
@HWI-EAS443:3:32:1703:143#0/1
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+HWI-EAS443:3:32:1703:143#0/1
`OQ]T¥MQZ[YV SX^L]`¥UQRUPLNU[VRZSLFNTNTLB
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+HWI-EAS443:3:32:1719:225#0/1
abaa``bbaaaaZU`abaaaa`Uaa_aa]_Y`[^`[_V_¥
@HWI-EAS443:3:32:1738:212#0/1
GAGAATAATGGACATGATTCCAGAGAGGAATGAACAAGGA
+HWI-EAS443:3:32:1738:212#0/1
aaa`aaaaaaa`_`^`_a]W^_]_Z__ZW]Z^]ZY__[]
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+HWI-EAS443:3:32:174:55#0/1
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@HWI-EAS443:3:32:1763:1253#0/1
GCAAGGGGACGTAGTGTGGTAATGAAACGAAAACGGGAC
+HWI-EAS443:3:32:1763:1253#0/1
a[[_¥_ab_¥]TUYP_Xaaa0_¥^PRR`S`¥]_LLYaGZY
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+HWI-EAS443:3:32:210:88#0/1
abaabb`bbbb^XXbbb_ba`GaVa`a`_`¥X_W¥aQ__`
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+HWI-EAS443:3:32:214:799#0/1
abaaaba_] [ba_aa^aaaaaa_T`_a]a`a_a`a^^_a¥
@HWI-EAS443:3:32:306:1431#0/1
GCACTCGGAGATACTACTAAGACCACTGTGGACCATAT
+HWI-EAS443:3:32:306:1431#0/1
a_J_bbbba^a^aaaaaaaaa``¥[a`]Ya¥]`b¥`S^
@HWI-EAS443:3:32:307:1705#0/1
GAAAGAAGAGCTCCAGGATTGTAATAATTGCTCCCTTGATG
+HWI-EAS443:3:32:307:1705#0/1
a_`] `ab]XZa_aa`^]P`_aXH]^^[[]_]a_X_`^TYW

@HWI-EAS443:3:32:315:1524#0/1
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+HWI-EAS443:3:32:315:1524#0/1
^aaUVXU]Y]Zb]``T^`Xa^N]Y¥¥^`[^`^_NXJ]YSU
@HWI-EAS443:3:32:340:940#0/1
GGTTCACCTTTCAAAGGACAAGCGGATCATCAGTCAAGAA
+HWI-EAS443:3:32:340:940#0/1
^MZ_a]_a_aZZZ``aa`^`a_[_OW[^_a``[____[¥[
@HWI-EAS443:3:32:343:1137#0/1
GGTCTTAGTGAGTATCTCGCGAGTGC GGGACTGCGACATT
+HWI-EAS443:3:32:343:1137#0/1
[a_abab]¥a`_aabb_a]] [YT^`]^`^ZJ[^`Z[^`RaZRX
@HWI-EAS443:3:32:343:1986#0/1
CATTTCTCACTTCTCCTCCTGGAGTGTACATCTGCTCCCA
+HWI-EAS443:3:32:343:1986#0/1
abaaabaaba_ab]b`Xa^Y]X[]Y^Wa`¥^[^V_Ua`¥U
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TTCAATATAAACTGCCTGTTCCGCCGGCTACTGGGAGA
+HWI-EAS443:3:32:346:1403#0/1
[abbbb^`][babbabaab_abbaaaa``^abRS[^`X[P
@HWI-EAS443:3:32:349:361#0/1
AAAAGAAGTGAAGATCTAATGTCGCAGTCCCGCACTCGC
+HWI-EAS443:3:32:349:361#0/1
aa[a_aaa`_]aa`]^`a[^`X`[^`^]U^U^VWQ]W_Y_
@HWI-EAS443:3:32:392:1311#0/1
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+HWI-EAS443:3:32:392:1311#0/1
]^_baLYT]Ta_ba_Y^^bbbb__¥abb^[_`b_THV`b[
@HWI-EAS443:3:32:514:665#0/1
TCAACATCATCTTTCTCACTTCTCCTCCTGGAGTGTACA
+HWI-EAS443:3:32:514:665#0/1
aabaaa_aaa``a`a_``P__``VZ``_]_]X¥VV`]
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+HWI-EAS443:3:32:524:1551#0/1
aa`bbbbbab]aaaaab`aabaaa`aaa___aa_]_aa_a
@HWI-EAS443:3:32:541:1174#0/1
GATGAAGGCACATCTGGGGTGGAGTCTGCTGTCCTGAGAG
+HWI-EAS443:3:32:541:1174#0/1
aa¥`¥V_ab_a`_``_¥]_Q_R¥_Y_¥_QVXGY¥WY¥TS
@HWI-EAS443:3:32:547:1361#0/1
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+HWI-EAS443:3:32:547:1361#0/1
aab_b¥P_bb_0Xa`a]aaV¥aaa¥baaaSYUaY^RUZaa
@HWI-EAS443:3:32:573:169#0/1
GTCTGATCCAGCATCGTTTGTGTTTGTCTCCAGAGGGTTTGT
+HWI-EAS443:3:32:573:169#0/1
a[a^a_^^`[^`_``^Z`aX```^Z`^^_^_]X^]WW
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+HWI-EAS443:3:32:604:1372#0/1
¥[baa]a¥XWab`´`aR_a^^U]^¥]__[[FU[a^[Y`_¥
@HWI-EAS443:3:32:60:1328#0/1
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+HWI-EAS443:3:32:60:1328#0/1
_Xa_Xa`^UZ¥a`a¥__^S`^_¥SWUWX_U__¥W^ZW¥¥^
@HWI-EAS443:3:32:653:1090#0/1
GTGGATGATGGCAATGAGATACCCAATTACAGCAGACAAG
+HWI-EAS443:3:32:653:1090#0/1
`NU_]XZR_NOY`YXS^OQLZQY¥^XT[[U^___V[^__[
@HWI-EAS443:3:32:661:758#0/1
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+HWI-EAS443:3:32:661:758#0/1
`baba`aaaa_abaa^aaaaa¥aaa[_Z^Y¥]__^¥T^X_
@HWI-EAS443:3:32:668:188#0/1
CACTCGCGAGATACTACTAAGACCACTGTGGACCATATG
+HWI-EAS443:3:32:668:188#0/1
aabaaa`baaa`a`^aaaaa`a__aa`_W[¥_]a]U`V]
@HWI-EAS443:3:32:679:1220#0/1
GAATAAAAGAACTGAGAGATCTAATGTCGCAGTCCCGCAC
+HWI-EAS443:3:32:679:1220#0/1
_P]¥__`_¥Z^aX`QZ`[X_a`V_T[Z`QYUNN[[`URH]
@HWI-EAS443:3:32:685:1959#0/1
TCGCGAGATACTACTAAGACCACTGTGGACCATATGGCC
+HWI-EAS443:3:32:685:1959#0/1
Sab_a`^`_¥_bbbb```_U`b_UabbYaab`U_S]a_bb
@HWI-EAS443:3:32:687:93#0/1
AAAGCACTTTTGCATCTTTTGGAAATGCCTCAAGAGTTG
+HWI-EAS443:3:32:687:93#0/1
J¥]S__`bbaaV_OW¥QOY`SY^`[F`ZP_¥RP^^SaYQ_
@HWI-EAS443:3:32:689:901#0/1
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+HWI-EAS443:3:32:689:901#0/1
TRVMP[X^WWZXZHUV]_TTW]]¥[¥¥W¥YY¥T¥VLWSVQ
@HWI-EAS443:3:32:694:26#0/1
GGCCATTCTATTCCACCATGTTACGGCCAGAGGTGATAC
+HWI-EAS443:3:32:694:26#0/1
``aabaabaaaaaaa`aaa`aaZ`_a_¥VVYXRZ[PYS
@HWI-EAS443:3:32:695:327#0/1
AAACAAACGATGCTGGATCAGACCGAGTGATGGTATCACC
+HWI-EAS443:3:32:695:327#0/1
aaa]abb[_aa`][X^¥[Xa_PZ^V`_QN]_`^X_X`_]]
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ACCTTGTTTTACGGACCAATTCTCTTTCTAGCATGTACGC
+HWI-EAS443:3:32:721:1775#0/1
`a___Z^aa`aa`_a`_aaa_a```_a_a]```aa_U^_^a
@HWI-EAS443:3:32:748:1838#0/1
GGAAAAGCACTTTTGCATCTTTTGGAAATGCCTCAAGAG
+HWI-EAS443:3:32:748:1838#0/1
`^`^bbbbbbaY^a_ab`_aaaa[aaaaab`aaa[arFX^_

@HWI-EAS443:3:32:768:1044#0/1
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+HWI-EAS443:3:32:768:1044#0/1
ab_baaabaaaa_`aaaaaaaaaaaa`a__`[[N]^`
@HWI-EAS443:3:32:76:817#0/1
GCTGTAATTGGGTATCTCATTGCCATCATCCACTTCATTC
+HWI-EAS443:3:32:76:817#0/1
ab`¥aaba`_`XV_aa_W_aaaa^` `[]a`aaZYM[¥a
@HWI-EAS443:3:32:773:1275#0/1
TGCTGTCCTGAGAGGATTTCTCATTTTGGGCAAAGAAGAC
+HWI-EAS443:3:32:773:1275#0/1
`¥`_baabbbaa` `aaaaba`a`^a]`a`^^a]^_aaaa
@HWI-EAS443:3:32:820:599#0/1
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+HWI-EAS443:3:32:820:599#0/1
Z^[]`aa` `__`a]aW_a` `[]¥WX`U[^]UV¥¥
@HWI-EAS443:3:32:854:1004#0/1
AGCAGACCCATTAGCATCTCTTGGAAATGTGCCACAGC
+HWI-EAS443:3:32:854:1004#0/1
__^aXaa]aaa¥`aaaa`a^ZZ_XT__Z][aT¥LZ`aaV`
@HWI-EAS443:3:32:876:286#0/1
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+HWI-EAS443:3:32:876:286#0/1
abaabba`bba` `abaabaaaa^`aa_a`a`a`^__aa`_
@HWI-EAS443:3:32:928:601#0/1
CGTTTTCGTTTCATTACCAACACTACGTCCCCTTGCCCAA
+HWI-EAS443:3:32:928:601#0/1
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@HWI-EAS443:3:32:948:1777#0/1
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+HWI-EAS443:3:32:948:1777#0/1
]_UK[_`]a_a`_UP__[^R]LTPY[ZUON^^_N_T_LYO
@HWI-EAS443:3:33:1019:834#0/1
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+HWI-EAS443:3:33:1019:834#0/1
a_aaab`aaaa`aa` `aa_a`^__V^^]]YVOYVUVQV
@HWI-EAS443:3:33:101:530#0/1
GGGAGATCAATGGCCCTGAGTCAGTGCTAGTCAACACTTA
+HWI-EAS443:3:33:101:530#0/1
aaaab`[]abaaab_a_aa`V`_aY¥RY¥¥R_Z`U`S[[_
@HWI-EAS443:3:33:1101:357#0/1
CATTTCTCACTTCTCCTCCTGGAGTGTACATCTGCTCCCA
+HWI-EAS443:3:33:1101:357#0/1
ab[ZV`]b¥b_]_ba`aaaX`_aU[_V`_NQLNU_T__
@HWI-EAS443:3:33:1133:1280#0/1
AAGAAGTGAAGATCTAATGTCGCAGTCCCGCACTCGCGA
+HWI-EAS443:3:33:1133:1280#0/1
aa__aaa_aaaa_¥`a`_aW`_]_SWX¥TTW¥WUQU¥_
@HWI-EAS443:3:33:1144:1806#0/1
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+HWI-EAS443:3:33:1144:1806#0/1
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+HWI-EAS443:3:33:1152:958#0/1
U^`^^aaabb^W^a`b_``[OYaa_¥S^`]aONU¥[QX]`
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+HWI-EAS443:3:33:1158:430#0/1
`a`aabaaaa_aaa`aa`_`aa_aa[___Y^_XVY¥X
@HWI-EAS443:3:33:1160:461#0/1
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+HWI-EAS443:3:33:1160:461#0/1
abb]bbabaa`_]b``aba`bb[a`aaa¥aVYVYTX[ZTYTY
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+HWI-EAS443:3:33:1165:1682#0/1
aa`a`_a^a__`_¥^_a__Y^]`^`BBBBBBBBBBBBBB
@HWI-EAS443:3:33:1185:484#0/1
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+HWI-EAS443:3:33:1185:484#0/1
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@HWI-EAS443:3:33:1194:141#0/1
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+HWI-EAS443:3:33:1194:141#0/1
a¥ZX`¥UN^]__`P`W[_aa_¥``VWT¥_BBBBBBBBBBBB
@HWI-EAS443:3:33:120:1070#0/1
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+HWI-EAS443:3:33:120:1070#0/1
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@HWI-EAS443:3:33:1230:1599#0/1
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+HWI-EAS443:3:33:1230:1599#0/1
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+HWI-EAS443:3:33:1242:1128#0/1
`b`U_a_abaaaaa`aaa_a_`__a`][^YaU`_]VU_^
@HWI-EAS443:3:33:1250:1876#0/1
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+HWI-EAS443:3:33:1250:1876#0/1
WUZI[a_`b`^]W_¥ZRQn^`ZTVWWT]BBBBBBBBBB
@HWI-EAS443:3:33:1253:570#0/1
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+HWI-EAS443:3:33:1253:570#0/1
]ba^[¥YX]aba]aTaba0_WX`W_^GR`_W¥^[P`]YQ`
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+HWI-EAS443:3:33:1254:885#0/1
_a_W__bbbbab`_____babaaaZZ`aabbaa`_]¥Z^aa

@HWI-EAS443:3:33:1277:2025#0/1
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+HWI-EAS443:3:33:1277:2025#0/1
abababaab_aba__aa`a`_```aaa`W`^_YZM]^`^]Y
@HWI-EAS443:3:33:1298:158#0/1
CTGCTGTAATTGGGTATCTCATTGCCATCATCCACTTCAT
+HWI-EAS443:3:33:1298:158#0/1
a^aa^[_`¥a_¥^¥¥aa`¥UWZZ¥Z`^_`_]OWFYT¥RS]V
@HWI-EAS443:3:33:1307:1074#0/1
GAAGAAGAAGTGCTAACGGGCAACCTCCAAACACTGAAAA
+HWI-EAS443:3:33:1307:1074#0/1
aabbabbbb`aabb`aaaaaa_a_`a_a_^]_X]^a`
@HWI-EAS443:3:33:1341:1870#0/1
ATCTAATGTCGAGTCCCGCACTCGCGAGATACTCACTAA
+HWI-EAS443:3:33:1341:1870#0/1
a`babbab¥_abbaZ_bUa`ZaZ`]a__SZ``G^QUQ¥`]]
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GCTGTAATTGGGTATCTCATTGCCATCATCCACTTCATTC
+HWI-EAS443:3:33:1349:1199#0/1
aaabaabbaaa`baaaa]a`aaa`a¥a_a_`Q__¥_a^¥
@HWI-EAS443:3:33:1365:344#0/1
GCACTCGCGAGATACTCACTAAGACCACTGTGGACCATAT
+HWI-EAS443:3:33:1365:344#0/1
aaa`ab`ab`a`a```a`_`a_a`^`___`V_UYY^^]^`^_
@HWI-EAS443:3:33:1392:1538#0/1
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+HWI-EAS443:3:33:1392:1538#0/1
ab__aZab`b`aba`_bbbabab`ba_abaaa]^`_]aXa`
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+HWI-EAS443:3:33:1417:1996#0/1
aab^aaN]]aaaZJ[TYZZ]T`WJTTN¥MW[TQQV[YR_[
@HWI-EAS443:3:33:1421:927#0/1
GATGCAGGTGCATTGACTGAAGATCCAGATGAAGGCACAT
+HWI-EAS443:3:33:1421:927#0/1
^^`b^Z^a`T_aba_a]^b`b`_`[_`^`b_]a_¥_VNVDQU
@HWI-EAS443:3:33:1427:48#0/1
GTTCACCTTCAAAGGACAAGCGGATCATCAGTCAAGAAA
+HWI-EAS443:3:33:1427:48#0/1
a¥aa_aaaa_aaa`aa```^`]a`]_W__]_^UX]Z_Z_]]
@HWI-EAS443:3:33:1439:1962#0/1
ACTCGGTCTGATCCAGCATCGTTTGTGTTTGTCTCCAGAGGG
+HWI-EAS443:3:33:1439:1962#0/1
a`_a__Q_]Y_¥_¥¥`_WZaY__`U^^__TWQTYTWWW¥
@HWI-EAS443:3:33:1446:504#0/1
GGACGTAGTGTGGTAATGAAACGAAAACGGGACTCTAGC
+HWI-EAS443:3:33:1446:504#0/1
a`^ab__¥Ta]aaaV]^`¥¥_`R`WMR_RV[SKMXVXVYY
@HWI-EAS443:3:33:146:706#0/1
GGAGAATTGCCTCTTACCAGTATCCTCAACCCTGATCCTC

+HWI-EAS443:3:33:146:706#0/1
aUQ[^X][^a¥NWaVXaaX[M^T__Z[SZY¥VV]]Z¥NQ_
@HWI-EAS443:3:33:1477:650#0/1
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+HWI-EAS443:3:33:1477:650#0/1
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@HWI-EAS443:3:33:1493:1331#0/1
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+HWI-EAS443:3:33:1493:1331#0/1
aaaa`a¥ab`_b`_a_a`a`Y_^`¥¥W^_TNVW¥WWW
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+HWI-EAS443:3:33:1525:1056#0/1
¥Z[^¥_^_¥_] [aa__aaZ]]PPO¥X^WT¥`TXQR[[JZ
@HWI-EAS443:3:33:1526:402#0/1
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+HWI-EAS443:3:33:1526:402#0/1
a^P`b` [aZ_aabaa` `abaa[^]X_Y[_TTZ[WIMV_
@HWI-EAS443:3:33:1542:1194#0/1
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+HWI-EAS443:3:33:1542:1194#0/1
a_]a`b]`W`aaT`a_a`[^`V^_]_]_[X[ULPK]YYYY
@HWI-EAS443:3:33:1564:1189#0/1
GCAGTGTGAGACCCATTAGCATCTCTCTTGAAATGT
+HWI-EAS443:3:33:1564:1189#0/1
aa_S¥_¥Z_a` `]OYWX[_ZVYOW[^¥]V]^T_U^¥ZZU
@HWI-EAS443:3:33:1607:1707#0/1
GATGTGCTTGGGACATTTGACACTGTCCAAATAATAAAC
+HWI-EAS443:3:33:1607:1707#0/1
aaYa0a` [`[^¥¥` `a`a_a^V^a^^0`^^^RKO^^YVWD
@HWI-EAS443:3:33:1659:1993#0/1
CAAAGTTCAGATCGCCCCTAACTGCCTTGATCATGCAATC
+HWI-EAS443:3:33:1659:1993#0/1
a_^^[P¥abbbb` [Iab_[a_a`aa_a^bXXUQW^_GaQ
@HWI-EAS443:3:33:1663:461#0/1
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+HWI-EAS443:3:33:1663:461#0/1
^`J_]b¥ZaUbSa`V¥TaR[Y`Z^¥`TN¥K[VMSVGSQNT
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CTCACTAAGACACTGTGGACCATATGGCCATAATCAAAA
+HWI-EAS443:3:33:1711:757#0/1
aaba` `bbbabbbba_bbb`]a`babb`aTZb_Y[_MV_bb
@HWI-EAS443:3:33:1717:218#0/1
GTCCCCTTTTTCGTTTTATTACCAACTACGTCCCCTTGCG
+HWI-EAS443:3:33:1717:218#0/1
aa____a]`aa]`_a`_aa`^]_^_X_V]^_WXXVOYXXYV
@HWI-EAS443:3:33:1747:483#0/1
TGAAGATCCAGATGAAGGCACATCTGGGGTGGAGTCTGCT
+HWI-EAS443:3:33:1747:483#0/1
ababbabb]`b`]ba`]YQX_`TX^]J[aX_ZG_VT_[TX

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+HWI-EAS443:3:33:206:609#0/1
aaaba`aaa_a_`a`aa`a`aaaa^_]`ZT^V^^^ZV`Y
@HWI-EAS443:3:33:243:861#0/1
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+HWI-EAS443:3:33:243:861#0/1
ZV]a^baaaaa]a)`aaaaa_a`^^¥`a`WQY_[^T`Z
@HWI-EAS443:3:33:257:972#0/1
GCCTCGGAGATACTACTAAGACCACTGTGGACCATAT
+HWI-EAS443:3:33:257:972#0/1
abaaababa]]_`__aaa`[[_`^a^Z`_^X`]^V__Y_W
@HWI-EAS443:3:33:262:567#0/1
GGGACGTAGTGTGGTAATGAAACGAAAACGGGACTCTAG
+HWI-EAS443:3:33:262:567#0/1
aaaXbaZab^aVaa_S^`a_X`_U`__aTK^]WQMUTW¥Y
@HWI-EAS443:3:33:265:1193#0/1
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+HWI-EAS443:3:33:265:1193#0/1
`__Z_Xa]abaa_a`babba`aa`]`[¥_aaV[_^`_`¥_
@HWI-EAS443:3:33:265:137#0/1
ATCATTCTCCTTCTCCTCCTGGAGTGATCATCTGCTCC
+HWI-EAS443:3:33:265:137#0/1
aaaLZ`ab`a`a`_`aa`_]_¥`¥`¥`[SU¥¥WVW¥¥
@HWI-EAS443:3:33:309:304#0/1
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+HWI-EAS443:3:33:309:304#0/1
abbVbabbbaba]`aba^aS_aaaa`¥a`aZ`^aa`aa^
@HWI-EAS443:3:33:310:1746#0/1
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+HWI-EAS443:3:33:310:1746#0/1
UX¥`aaba`_`a_a_^[_`ab_a`aY¥XV_^¥WWN]Y¥¥ZY
@HWI-EAS443:3:33:328:20#0/1
GAATAAAGAAGTCTAATGTCGCAGTCCCGCAC
+HWI-EAS443:3:33:328:20#0/1
a`a^`a]``[a`a]^`a]__`a^^aX^]]^¥G[W¥QS]W
@HWI-EAS443:3:33:32:954#0/1
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+HWI-EAS443:3:33:32:954#0/1
]_T¥Z[_`SH[PXXV]YOW]ZS[X_]YNX]OZTXSV[S^
@HWI-EAS443:3:33:333:343#0/1
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+HWI-EAS443:3:33:333:343#0/1
_]X__^b]Q]aa`_X¥baa`^`aa_Z^baaaa`^^`a¥UZ
@HWI-EAS443:3:33:357:184#0/1
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+HWI-EAS443:3:33:357:184#0/1
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@HWI-EAS443:3:33:362:876#0/1
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+HWI-EAS443:3:33:362:876#0/1
a__aaa_aUa_a¥^X_a`¥_G¥P`]_XW¥¥¥USWW¥WV¥^
@HWI-EAS443:3:33:372:340#0/1
TGTCGCAGTCCCGCACTCGCGAGATACTACTAAGACCAC
+HWI-EAS443:3:33:372:340#0/1
aa]aa`aa¥a__a__¥`][[Z[YXZOXZ[VV¥¥¥UUU¥S
@HWI-EAS443:3:33:375:1530#0/1
TTGGGTATCTCATTGCCATCATCCACTTCATTCTGAGTGC
+HWI-EAS443:3:33:375:1530#0/1
`_aaaSabbab]a`]aa^`ba`baaaa^aa_aW____W^`
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+HWI-EAS443:3:33:386:1195#0/1
^L_]`_P__a`^`]__^[_`_] ^`^¥QY_____]X_ZTX]W¥
@HWI-EAS443:3:33:390:956#0/1
GTTGCCCGTTAGCACTTCTTCTTCTTCTTCTTGACTGATGAT
+HWI-EAS443:3:33:390:956#0/1
a¥_a`ab^PZa]baaaaaa`a`^a`^`_S_W_^`^aX
@HWI-EAS443:3:33:397:1826#0/1
AGAGAATAAAAGAACTGAGAGATCTAATGTGCGCAGTCCCG
+HWI-EAS443:3:33:397:1826#0/1
aaaaabbbb`a]_`aaYaYaY`_aa`_a_Y_KDTORYX]V
@HWI-EAS443:3:33:405:1816#0/1
GTCCCGTTTTCGTTTTATTACCAACTACGTCCCCTTGC
+HWI-EAS443:3:33:405:1816#0/1
a]ba_b^a^_aY]^^a`_S`W[___a^T^a`ZUX^_ZGTTS
@HWI-EAS443:3:33:42:1261#0/1
GTTTGGTTGCCTTGTTGTAATTGAATACTGGAGAATTGCC
+HWI-EAS443:3:33:42:1261#0/1
a_a`a`^`_aa`_a_a`^baa__aa`^_a__^[_`_¥Z`^
@HWI-EAS443:3:33:436:50#0/1
GTTTCACTGACTTCTTCGGGAGACAATAGTACGTTCCTC
+HWI-EAS443:3:33:436:50#0/1
a_aaaaaaaaaa_a`a```_a^`_`_X^Y]ZWX]ZZWZZ
@HWI-EAS443:3:33:440:1210#0/1
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+HWI-EAS443:3:33:440:1210#0/1
a`R`_[GX]]`a`^_] ^]a``]_aa`_`_`XV[_^_[-`_`
@HWI-EAS443:3:33:446:615#0/1
GAAGTGGATGATGGCAATGAGATACCCAATTACAGCAGAC
+HWI-EAS443:3:33:446:615#0/1
aW`^Y`__a¥` [U^__a` [V`_`X_W_^X^]]^]Y
@HWI-EAS443:3:33:534:1715#0/1
CTCTTATTTTCAGTGTGGAGGTTGCCCGTTAGCACTTC
+HWI-EAS443:3:33:534:1715#0/1
`^Z^abaaaa^`_ [¥`aaa_[`PW¥X[_a[]SPTY¥_]SU
@HWI-EAS443:3:33:539:215#0/1
CGATGGATTCAATTCCCCAGTTCTGGAAAAGCACTTTTGC
+HWI-EAS443:3:33:539:215#0/1
abbabbaa`abaaaaa```_aaa`^`aa`^`^]__¥`]

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a[`a`U`aa`]^]aaaa¥aaW[_VWW_a`TSSYRV¥^R
@HWI-EAS443:3:33:569:1469#0/1
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+HWI-EAS443:3:33:569:1469#0/1
aa]aa`^`¥aaa[¥[a`aaa]__[a`_`_a]_N[Z]^V^_
@HWI-EAS443:3:33:592:776#0/1
CCTGTCCACTTCAGAAATCAAGTTAAAATAAGGAGGAGAG
+HWI-EAS443:3:33:592:776#0/1
a`aa[aaa`aaaa^^^¥`_XSS`a`a__^`]Y[[¥¥^Y_]`
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+HWI-EAS443:3:33:637:1255#0/1
ababa[aaaabR_ab`a_aaaaaaa_``^^_H_^^]V^]
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+HWI-EAS443:3:33:646:428#0/1
a`]`baaaa`abaX`S_aaaaa^`¥UW_`ZZ¥W[^__W__`
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+HWI-EAS443:3:33:676:1529#0/1
a]bab``aaaa_`_ab_N]aaaa^a`_aa^M^]_^]UY_
@HWI-EAS443:3:33:682:991#0/1
GTCCCCTTTTCGTTTCATTACCAACTACGTCCCCTTGCC
+HWI-EAS443:3:33:682:991#0/1
a`bbbb_`aaaa]aaaa`a¥aaa`_a`_a`XU]^`V]U^`
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+HWI-EAS443:3:33:693:1187#0/1
aaaab`b_K]aaaba`ba`a_aa`_`^_a`^`_`_`_`^`
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CCCCTTTTCGTTTCATTACCAACTACGTCCCCTTGCCC
+HWI-EAS443:3:33:735:1471#0/1
abba^aaba`aaaa``aaa¥aaa`aa_]_WMXLT]XZZ`
@HWI-EAS443:3:33:742:363#0/1
GGACGTAGTGTGGTAATGAAACGAAAACGGGACTCTAGC
+HWI-EAS443:3:33:742:363#0/1
aaaba^`aRb^abaQ_a`aaab`_`^aY_^^X^Y]^Y_U`
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GCACTCGCGAGATACTACTAAGACCACTGTGGACCATAT
+HWI-EAS443:3:33:759:710#0/1
abbbababaab[a_ab``aaaa`aa`a`_]¥_]_]`_a_`
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CTGTAATTGGGTATCTCATTGCCATCATCCACTTCATTCT
+HWI-EAS443:3:33:78:1965#0/1
aa]XV`¥]^][Sa`b^ba__Zbba^`_`_aaa_¥a`_`_`_`
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+HWI-EAS443:3:33:805:1285#0/1
`b_a`aa`a_a`^Wa_a`a____Wa^`¥]Q¥^WWPLT¥W¥S
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+HWI-EAS443:3:33:809:1595#0/1
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@HWI-EAS443:3:33:817:463#0/1
CGAGATACTCACTAAGACCACTGTGGACCATATGGCCATA
+HWI-EAS443:3:33:817:463#0/1
abbbabaababab`]`aabbaa`^a`]`aaaa_]a`^X`Z¥
@HWI-EAS443:3:33:81:893#0/1
GTCCCCTTTTCGTTTCATTACCAACTACTGCCCCCTTGC
+HWI-EAS443:3:33:81:893#0/1
a[``[`_a_aaa]ZaWH¥]Xaaa¥`^^ZaaXU^Za^TIKX
@HWI-EAS443:3:33:872:498#0/1
GAAGTGGGAATTGAATCCATCGACAATGTGATGGGAATG
+HWI-EAS443:3:33:872:498#0/1
aaaabbabbaabaaaaa_`a`aa_`a`]`a¥_]V`_`^]__
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+HWI-EAS443:3:33:877:771#0/1
]Z__[_`a_aa^a`aa`^^aY``Z___V¥Za`ZR[R[_[^
@HWI-EAS443:3:33:959:773#0/1
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+HWI-EAS443:3:33:959:773#0/1
[[`a_b`^`]aa__a`_¥S^^`U^][V]_Y_SX[[¥S`^
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+HWI-EAS443:3:33:987:1028#0/1
aa]ba^aaaa_a```aaaaa¥a_a`[^¥``VU[W¥_¥¥^
@HWI-EAS443:3:33:99:897#0/1
GAAGTGGAGATCTAATGTCGCAGTCCCGCACTCGCGAGA
+HWI-EAS443:3:33:99:897#0/1
`_aba_^aabbaaabaab_b]ba__b`a¥_H¥X^WVXZ[Y
@HWI-EAS443:3:34:1000:1076#0/1
GTCCCCTTTTCGTTTCATTACCAACTACTGCCCCCTTGC
+HWI-EAS443:3:34:1000:1076#0/1
a_`aaa`a`aa_a`aaa`a`_^^^_]```Y^YX[YXRX
@HWI-EAS443:3:34:1006:550#0/1
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+HWI-EAS443:3:34:1006:550#0/1
abbaaabababaaaaabaab`aaaa_``Y^W^^¥¥¥^^
@HWI-EAS443:3:34:1014:1409#0/1
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+HWI-EAS443:3:34:1014:1409#0/1
^]¥aa`^OY`[[^VXGJOX`¥XMG^V^]^BBBBBBBBB
@HWI-EAS443:3:34:1016:797#0/1
CATTCCCATCACATTGTCGATGGATTCAATCCCCAGTTC
+HWI-EAS443:3:34:1016:797#0/1
a`_`_^^ab_`]`^bab_aaa_]`YZZ]YU]¥VPSOXR

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+HWI-EAS443:3:34:1058:42#0/1
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@HWI-EAS443:3:34:1074:1472#0/1
AAAAGAAGTCTGAGATCTAATGTTCGAGTCCCGCACTCGC
+HWI-EAS443:3:34:1074:1472#0/1
^]a]X__^¥U`bTU[^baa`aa__aa^aa`a_]WJ[XU
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+HWI-EAS443:3:34:1078:1922#0/1
aaa`V]]_^¥TY[Z`^¥^XX¥`Y^[BBBBBBBBBBBBBB
@HWI-EAS443:3:34:1088:1861#0/1
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+HWI-EAS443:3:34:1088:1861#0/1
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+HWI-EAS443:3:34:1090:969#0/1
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+HWI-EAS443:3:34:1103:1871#0/1
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+HWI-EAS443:3:34:1158:422#0/1
_babbbbbbbbabbb`bbabaabbbbaaaba`aa`^_V[
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+HWI-EAS443:3:34:1186:314#0/1
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@HWI-EAS443:3:34:1203:439#0/1
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+HWI-EAS443:3:34:1203:439#0/1
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@HWI-EAS443:3:34:1223:491#0/1
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+HWI-EAS443:3:34:1223:491#0/1
``ab^`a_bbbbabYWaba]aUbVN^__`b`_`^`_Z`]
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+HWI-EAS443:3:34:1298:105#0/1
a`_bbaabaaa`aa_aa_aa^aaaa^a_]a`V_`XX^B
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+HWI-EAS443:3:34:1298:925#0/1
U_^aX]Xaa`bWF[_b[_`babbbXHX_dWS][_aa_T_
@HWI-EAS443:3:34:1388:1274#0/1
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+HWI-EAS443:3:34:1388:1274#0/1
^W_^aaaaaa`_aa_`]¥a[^Z^`U_U^`_X^]TTVBBB
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+HWI-EAS443:3:34:1398:1445#0/1
aaa`aabababbababaaaaYbaaa`aaa__`a`_^W]ZL
@HWI-EAS443:3:34:13:894#0/1
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+HWI-EAS443:3:34:13:894#0/1
Va¥FZ][_`aa`[_`_]`XUVPPLUL[BBBBBBBBBBBB
@HWI-EAS443:3:34:1412:1342#0/1
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+HWI-EAS443:3:34:1412:1342#0/1
_W]^ZW[_ZW`_¥^`X]aa]aa^_ZZaZ^^a`PLUUJU]B
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+HWI-EAS443:3:34:1413:689#0/1
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+HWI-EAS443:3:34:1416:139#0/1
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@HWI-EAS443:3:34:1435:1000#0/1
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+HWI-EAS443:3:34:1435:1000#0/1
¥a``aaW¥_aa^`P¥````ab]S^`a`]UaZ`¥`XVYFS^_
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+HWI-EAS443:3:34:1437:243#0/1
a`¥^ba`b_b_a`bbaaa`aaa_a_^`¥TW^MYXRZBB
@HWI-EAS443:3:34:1479:862#0/1
GAGAGATCTAATGTCGCAGTCCCGCACTCGCGAGATACTC
+HWI-EAS443:3:34:1479:862#0/1
`¥]^YMPQZ¥`]a[]X```VVVTGWNPNVXVZSBBBBBB
@HWI-EAS443:3:34:1492:853#0/1
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+HWI-EAS443:3:34:1492:853#0/1
¥``U¥W`ZY]aV_a^[_aWaZUU]^YZ[V][[]BBBBBB
@HWI-EAS443:3:34:1517:1329#0/1
GTTGAGGATTAGCTCATCTTTCAGTTTTGGTGGTTCCT
+HWI-EAS443:3:34:1517:1329#0/1
]I¥`]^W_a^^_ZZY`_ZZ_]W¥P_____YZQ_BBBBBB

@HWI-EAS443:3:34:1534:1360#0/1
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+HWI-EAS443:3:34:1534:1360#0/1
`U`_]_X]X^`VY[HS_]¥]_^_^_X¥VZ]WPDOVSLT
@HWI-EAS443:3:34:1534:884#0/1
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+HWI-EAS443:3:34:1534:884#0/1
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+HWI-EAS443:3:34:1552:309#0/1
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+HWI-EAS443:3:34:160:1869#0/1
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+HWI-EAS443:3:34:1677:1062#0/1
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`TZ¥Y¥¥_aa_U_]a]`_`0^_W`_TM]^¥WLLWBBBBB
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abb_^_bbbbbaabbaaab_ab_a`abZFW_^]Yaa[`
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`a_¥^^Y_aa^Z^`aaaaaaaaaaaaa¥b`a`aW[_]_]`

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aaabbVa_]__U_]a_a_`_`_]a]```_Y]]VYVWU
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+HWI-EAS443:3:34:504:1028#0/1
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+HWI-EAS443:3:34:605:1351#0/1
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+HWI-EAS443:3:34:630:1355#0/1
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+HWI-EAS443:3:34:653:1200#0/1
¥¥SSSM_a_Z¥T_Z¥a_TVU¥_]J¥S_¥¥V][X]Z]L]Z`
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aa_`aaaa^a`aa_`_a^^][X]X¥_]¥^WZ^ZRRUZ
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+HWI-EAS443:3:34:817:1845#0/1
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+HWI-EAS443:3:34:871:897#0/1
a^[`a`Za`^WV¥][_XVY]_[_]U^`_][^`_`YZ

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¥¥XXPaYYaRRZab]a`P_Y^[Y`XU¥^W_RV^]XTZ[US
@HWI-EAS443:3:34:880:358#0/1
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+HWI-EAS443:3:34:880:358#0/1
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a`aaaabaaaaaa`aaa_aaa`_aa]`aa`_U]Y^Y]W]
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+HWI-EAS443:3:34:918:1894#0/1
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+HWI-EAS443:3:34:928:1713#0/1
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+HWI-EAS443:3:34:936:315#0/1
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+HWI-EAS443:3:34:972:721#0/1
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+HWI-EAS443:3:34:99:1128#0/1
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+HWI-EAS443:3:35:1029:416#0/1
aaaaaa`b`aa`a_` [` ^`¥__U` ____ [^^a_` ` _ZZ_UR
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+HWI-EAS443:3:35:1173:1584#0/1
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+HWI-EAS443:3:35:1410:1665#0/1
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+HWI-EAS443:3:35:1435:1159#0/1
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+HWI-EAS443:3:35:1435:1480#0/1
`ba¥U_ba[`_Y`_aU`]`]a`Y`__`^V`a`_`P]Qa[a
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+HWI-EAS443:3:35:1436:587#0/1
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+HWI-EAS443:3:35:1462:266#0/1
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+HWI-EAS443:3:35:1513:1297#0/1
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+HWI-EAS443:3:35:1532:900#0/1
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+HWI-EAS443:3:35:1571:1344#0/1
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^`a`^`^`b^T_ba_b`_aaaa````WZS]^`_`aa`]]_L_
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`a]_a`_aabb`QX`¥a`__b¥a__aUbaa]a`_aGa`^
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@HWI-EAS443:3:35:1645:703#0/1
GGTGGGTTCACTTTCAAAGGACAAGCGGATCATCAGTCA
+HWI-EAS443:3:35:1645:703#0/1
aa_aaa_a__aaa`_````_]^_¥W[]````_____Xa
@HWI-EAS443:3:35:1675:2044#0/1
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+HWI-EAS443:3:35:1675:2044#0/1
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+HWI-EAS443:3:35:1680:633#0/1
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+HWI-EAS443:3:35:1696:1411#0/1
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@HWI-EAS443:3:35:1775:850#0/1
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+HWI-EAS443:3:35:1775:850#0/1
a[`¥aRa^__¥`T`_ZP[[ST_YWU¥W`^`V¥^WWWZWV
@HWI-EAS443:3:35:1789:631#0/1
AGTGTGGAGGTTGCCGTTAGCACTTCTTCTTCTTCT
+HWI-EAS443:3:35:1789:631#0/1
aaR`]]^`a`V`Z^]LPZLXGTVXP^^VR[VQYWYGV
@HWI-EAS443:3:35:19:1191#0/1
GACCGATTTTTAAGGTTAGAGATCAAAGAGGGAACGTAC
+HWI-EAS443:3:35:19:1191#0/1
a`a`Y`aaaWQS¥`Y`aaX`^`_]P]__`_^]X]_Y__
@HWI-EAS443:3:35:228:425#0/1
ACTCACTAAGACCACTGTGGACCATATGGCCATAATCAAA
+HWI-EAS443:3:35:228:425#0/1
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@HWI-EAS443:3:35:271:1256#0/1
AAAAGAAGTGAAGATCTAATGTCGCAGTCCCGCACTCGC
+HWI-EAS443:3:35:271:1256#0/1
[_T_^ZV_aaa`^aaaaaaaaZa[aXYQ`a_[]GYU`^]
@HWI-EAS443:3:35:271:260#0/1
AGGGGACGTAGTGTGGTAATGAAACGAAACGGGACTCT
+HWI-EAS443:3:35:271:260#0/1
ababa`ab]__U`_a`aY_ZXT`a`G^TS^`XX_]SYV[X
@HWI-EAS443:3:35:277:977#0/1
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+HWI-EAS443:3:35:277:977#0/1
``aa^T¥aaaaa`__aa`aaaW_``¥Qaba¥a`^aVa

@HWI-EAS443:3:35:285:634#0/1
ATCTAATGTCGCAGTCCCGCACTCGCGAGATACTCACTAA
+HWI-EAS443:3:35:285:634#0/1
L]_¥___OR_^)] [`a^__U] `a` `WNURJ]XOW_SN` [
@HWI-EAS443:3:35:309:435#0/1
ATCTAATGTCGCAGTCCCGCACTCGCGAGATACTCACTAA
+HWI-EAS443:3:35:309:435#0/1
aba^a¥¥bVa[` `^_baa]ZD¥_` [aMMVGVVYU[XUS[H
@HWI-EAS443:3:35:322:1147#0/1
CTCAGAATGAAGTGGATGATGGCAATGAGATACCCAATTA
+HWI-EAS443:3:35:322:1147#0/1
a_b`aZ] `a` _SRa_____ [` ___Y¥Y]^ [UT ` `a[VX]_`
@HWI-EAS443:3:35:33:416#0/1
GGAGTAAGGATGGTGGACATCCTTAGACAGAATCCAAGT
+HWI-EAS443:3:35:33:416#0/1
aaaa`_]aaaaaa^aa^`_`aa__` `S^^aY¥`_`_]_`
@HWI-EAS443:3:35:355:77#0/1
CGCACTCGCGAGATACTCACTAAGACCACTGTGGACCATA
+HWI-EAS443:3:35:355:77#0/1
aaa¥a_aaaa^a^X_`__Y^`_^_]^^X`VUOPYUV]YVV
@HWI-EAS443:3:35:35:2006#0/1
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+HWI-EAS443:3:35:35:2006#0/1
_] ^ `aaa^aY^aa]aa^a^`Y]¥X[`V¥]^]¥SYUY
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+HWI-EAS443:3:35:381:557#0/1
`_] ^^aUGZ]¥^[¥_ ^XUTa__`YYXUX]^XZSRT^_]LW
@HWI-EAS443:3:35:414:1251#0/1
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+HWI-EAS443:3:35:414:1251#0/1
M¥YXQ¥a_Y^aa]b`¥`_ba¥` `VZMaS^_b^YW¥_aaY
@HWI-EAS443:3:35:41:582#0/1
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+HWI-EAS443:3:35:41:582#0/1
U__b_]a¥R_aa_Z_ abbbbaa_ abaa_ ^b`_Za`]a`¥
@HWI-EAS443:3:35:454:1068#0/1
CTTTGCTGCTGCTCCACCAGAACAGAGTAGGATGCAATTT
+HWI-EAS443:3:35:454:1068#0/1
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+HWI-EAS443:3:35:458:1967#0/1
_Ya`aab]bbaaa` `a^` `^^aaaaaaa`ba`bbaaaba`
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+HWI-EAS443:3:35:477:1105#0/1
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+HWI-EAS443:3:35:498:145#0/1
aa`bbaa`baaaa^__`aa^aaVY__]Z``b]`^_^_R^
@HWI-EAS443:3:35:52:565#0/1
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+HWI-EAS443:3:35:52:565#0/1
a_Z[X[]¥^W_X[¥``ZWI[TVQ¥^_SVVTV_^[Z_Z[[G
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+HWI-EAS443:3:35:560:1797#0/1
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@HWI-EAS443:3:35:562:1765#0/1
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+HWI-EAS443:3:35:562:1765#0/1
^ba`Z^_bbVba]`ab_bbbbaababbaabbaa_aaa_ab
@HWI-EAS443:3:35:595:539#0/1
GCTGAGGCAATAATTGTGGCCATGGTATTCTCACAAGAGG
+HWI-EAS443:3:35:595:539#0/1
aba`a_`abaabaaa`_aaa`_WTYG¥Y¥`X]T`U_[Y__
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+HWI-EAS443:3:35:599:931#0/1
a`U`]R^b_^`¥_ba`_aa``a`aa__a]``aa_V_a¥W
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+HWI-EAS443:3:35:611:85#0/1
abaabb`aaaaaa``aaa_a``_]`U``_aaZ[HX`_[RX
@HWI-EAS443:3:35:612:1237#0/1
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+HWI-EAS443:3:35:612:1237#0/1
^_babbbbaabbb`^V^a`a__baaab``__W^]`aaZaa
@HWI-EAS443:3:35:625:422#0/1
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+HWI-EAS443:3:35:625:422#0/1
a]a[`_bbabXa[ba`b_bb`abbbaaZHzaQaSaaL]`
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+HWI-EAS443:3:35:642:514#0/1
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@HWI-EAS443:3:35:657:1248#0/1
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+HWI-EAS443:3:35:657:1248#0/1
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@HWI-EAS443:3:35:688:853#0/1
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+HWI-EAS443:3:35:688:853#0/1
a^aa`aZa``a`^[_aaa_a___U__a`_a_Ya`_`^X]`
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ACTCGGAGATACTCACTAAGACCACTGTGGACCATATGG
+HWI-EAS443:3:35:872:964#0/1
aabb^aaaaaa[`aaaaaaaa¥aaa`aa[a`_aaaYa_a¥

@HWI-EAS443:3:35:87:986#0/1
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+HWI-EAS443:3:35:87:986#0/1
abaaa`aaabb_aa]V_abbab`aY[[Ta_JU[____a`V
@HWI-EAS443:3:35:889:1151#0/1
TGCTGTAATTGGGTATCTCATTGCCATCATCCACTTCATT
+HWI-EAS443:3:35:889:1151#0/1
aababVaaa`Z_aU]aaaaa`^^_¥a[a^a¥U^`[UJ[]
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CCCAAGCACGGAGATGTCGCTGAGAGGGATAAGAGTCAGC
+HWI-EAS443:3:35:892:1349#0/1
abaaaabaa`a_a`__¥a_`_`_¥a[^UV__¥^_Y¥_¥]
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+HWI-EAS443:3:35:943:1778#0/1
aaaab^b_`a`aaaabaa¥a^aZ¥WbV_b_a¥a_aZ[V^
@HWI-EAS443:3:35:980:290#0/1
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+HWI-EAS443:3:35:980:290#0/1
aa`aaaaaaaa_`^^_a`a`^____W^a_¥ZGXYWV¥
@HWI-EAS443:3:35:996:1118#0/1
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+HWI-EAS443:3:35:996:1118#0/1
a^ab__FZaa^U[_¥^XXa[`[[a__aG`X¥U]``_aZQ
@HWI-EAS443:3:36:1057:129#0/1
GCGAGATACTACTAAGACCACTGTGGACCATATGGCCAT
+HWI-EAS443:3:36:1057:129#0/1
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+HWI-EAS443:3:36:1114:60#0/1
ab¥`_`[_ab`abb_aa[a]abY]¥a`Z[]T¥`^a`_
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aaaaaaaaaaaa¥Paa_WMSW_`]OQ_[S¥TSJ[QOOSXTU
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+HWI-EAS443:3:36:1184:1576#0/1
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@HWI-EAS443:3:36:1192:1278#0/1
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+HWI-EAS443:3:36:1192:1278#0/1
aaaa`baa`aa`_aaaaa_a_b¥a^a`_]`^a`_]_^
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CGTTTTCGTTTCATTACCAACTACGTCCCCTTGCCCAA
+HWI-EAS443:3:36:1193:1132#0/1
a`^abbbaaaa`bbaaabaaaa`aaaa^aaa_`]]`aa[R
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@HWI-EAS443:3:36:1400:1875#0/1
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+HWI-EAS443:3:36:1400:1875#0/1
_aaaabaabbbbaa[`abbbb`^aaY#a_baa``_bba`X`
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+HWI-EAS443:3:36:1435:600#0/1
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@HWI-EAS443:3:36:1449:1330#0/1
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+HWI-EAS443:3:36:1449:1330#0/1
abaabaaa`]abaaba[bbaabaabb__`aaa__a``a^a
@HWI-EAS443:3:36:1462:873#0/1
CACCTGCATCCTTTCCAAGAACTGTAAGTCGTTTGGTTGC
+HWI-EAS443:3:36:1462:873#0/1
`aa`a_]R_]a#a][N_a`Z`Y_bQ[R_]_0[Z`a^X`]
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+HWI-EAS443:3:36:1464:1148#0/1
Z^bb`]`baa`^bbaba`ab`a`_aa^bUbw_a`^a_W^
@HWI-EAS443:3:36:1468:965#0/1
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+HWI-EAS443:3:36:1468:965#0/1
`b`b]bb`X0^`a_^_ba`aaa^`\$SRaaaY]`][a_[T
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+HWI-EAS443:3:36:1488:1645#0/1
aabbbaY^bb`Ybbaab[a_aa`_]a`b_aa#]ba`b
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+HWI-EAS443:3:36:1549:1064#0/1
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+HWI-EAS443:3:36:1581:1019#0/1
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+HWI-EAS443:3:36:1590:1896#0/1
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+HWI-EAS443:3:36:1593:245#0/1
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@HWI-EAS443:3:36:1616:560#0/1
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+HWI-EAS443:3:36:1616:560#0/1
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+HWI-EAS443:3:36:163:1024#0/1
aabbaa`a^]a_`a^`a^a`__`[]Y^_[[Y¥RVX[PU[`
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+HWI-EAS443:3:36:1657:308#0/1
aaaa^b`ab^b_aaaY`a`a]aa_a_[_aV`[_]]`^Y_
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+HWI-EAS443:3:36:1658:558#0/1
aaa`ab`aba^a^`[aa`a_`_`Yaa[_`a]QL[U[ZV]
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^RW```aaa^_`V^`[V_aUXW_YR¥_[[XTKRF^MOYS_
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+HWI-EAS443:3:36:1733:1041#0/1
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+HWI-EAS443:3:36:1767:160#0/1
`ba`_Rababb^aaaaaaaa¥bb_a__aa_[WSLFF[]U]_
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+HWI-EAS443:3:36:1776:1064#0/1
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GTCCCCTTTTCGTTTCATTACCAACTACGTCCCCTTGC
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a`baab`_`aaa]_^`_]`_aaa```aa^aa_X^^_aYU^^
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+HWI-EAS443:3:36:27:1996#0/1
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@HWI-EAS443:3:36:287:1188#0/1
CGCACTCGCGAGATACTACTAAGACCACTGTGGACCATA
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+HWI-EAS443:3:36:345:1902#0/1
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@HWI-EAS443:3:36:358:39#0/1
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+HWI-EAS443:3:36:358:39#0/1
aba¥ab[abbaa`ababa`aaa`_aa`_aa`_`aYYX[a[

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aa`aa[abaaaaa_Y```__^ab_[aRa_`_`_Z_X¥¥a
@HWI-EAS443:3:36:380:179#0/1
GGTGGGTTCACTTTCAAAGGACAAGCGGATCATCAGTCA
+HWI-EAS443:3:36:380:179#0/1
aaG``aXaaa^```a`_a__[]`_^`^_Z]]_^[`]Y[Y
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+HWI-EAS443:3:36:398:1157#0/1
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+HWI-EAS443:3:36:401:887#0/1
a`a_ba`a`a_aaa```aaaVaaa_a_T`]J^``aa^^aU
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+HWI-EAS443:3:36:404:1828#0/1
^__Z¥^Saba_a``bababbabX_]a_QVbb`Z^Xa¥b_b
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+HWI-EAS443:3:36:422:474#0/1
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@HWI-EAS443:3:36:433:1473#0/1
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+HWI-EAS443:3:36:433:1473#0/1
a^W]`]b_ab`^a`b__J``a_`^X^`[V^¥__`]]NR^a
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+HWI-EAS443:3:36:460:755#0/1
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+HWI-EAS443:3:36:465:238#0/1
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+HWI-EAS443:3:36:479:728#0/1
abbaaaaaZ]UV__Waaa_aY```_`____X__a^`¥_a^
@HWI-EAS443:3:36:490:23#0/1
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+HWI-EAS443:3:36:490:23#0/1
a^`a`_`¥aa]_a^`^[X_Z_^^¥`^Z_Y[W^¥V¥¥Q¥¥U
@HWI-EAS443:3:36:50:1231#0/1
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+HWI-EAS443:3:36:50:1231#0/1
`^baaaabbbbbbbbab____``baaab_Z¥baa]a^S_`^`
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+HWI-EAS443:3:36:65:222#0/1
ZZ¥^Y^`^`b¥[b_`a`^`aaUa_aa`0`_a__[_V]S¥R
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GGGCGATCTGAACCTTTGTCAATAGGGCAAACCAGCGACTG
+HWI-EAS443:3:36:662:828#0/1
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+HWI-EAS443:3:36:669:13#0/1
_¥¥aa]`_R^_TW___S_]`^WW]``^_[[¥XRX^]YWU
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+HWI-EAS443:3:36:698:1818#0/1
aa_aaaaaaaaa`aaaaaa`Waaa^b^a_`___aaZaZ^
@HWI-EAS443:3:36:728:1801#0/1
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+HWI-EAS443:3:36:728:1801#0/1
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@HWI-EAS443:3:36:730:816#0/1
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@HWI-EAS443:3:36:745:367#0/1
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+HWI-EAS443:3:36:745:367#0/1
^`_U__baba^ba`aaa_aab_ab]aa`_aP¥[`^`N[]
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aJ_]aaYa``YW[]WZZ^__¥^`Z^]_[_^]W^ZSNSWQ
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+HWI-EAS443:3:36:833:1556#0/1
a_RR_W_¥R^^SW`b]`_abbY`U`_JX_]ILUFHa`¥J
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+HWI-EAS443:3:36:841:1727#0/1
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_Yaa^_L]]^^^HY][`]V[]]¥_NZ¥U]¥`VQRXURTV^
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+HWI-EAS443:3:36:889:1029#0/1
a^bbbb_^a`aaabaaaaaaba¥aa_aa^Y^^a`XPJ]
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aaZ_]a[aaaa__aaaa^_`a]_^_`aaW_]`_`_]S`^^
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+HWI-EAS443:3:36:992:1404#0/1
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@HWI-EAS443:3:37:1065:852#0/1
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+HWI-EAS443:3:37:1065:852#0/1
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+HWI-EAS443:3:37:1131:1070#0/1
ab_abbbaaab`bbabaabaa`aaaa`_Zaa_aa_a```
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+HWI-EAS443:3:37:1133:850#0/1
aa]__aa`a`_ba`^_a__a`_]^^WLXY¥QYZ]Z_X
@HWI-EAS443:3:37:116:258#0/1
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+HWI-EAS443:3:37:116:258#0/1
aabbab_b^baa]aab^aU^¥a`a`T^_U¥`^`V[^¥FYX

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+HWI-EAS443:3:37:1177:1120#0/1
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+HWI-EAS443:3:37:1196:671#0/1
`[UZU¥aa`^aaaabaY`a[aaa`]X^X^FHVX_aaa`]¥
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+HWI-EAS443:3:37:1210:1008#0/1
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+HWI-EAS443:3:37:1210:1043#0/1
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+HWI-EAS443:3:37:1223:399#0/1
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_aaaaaaaaab`bab_aaaa`abaaaa^_aXa]`Z``a]_
@HWI-EAS443:3:37:123:1639#0/1
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+HWI-EAS443:3:37:123:1639#0/1
ab``^aab]]^¥^aaa_``POa`a_]X[a`VK_`a¥XS¥
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+HWI-EAS443:3:37:1260:1614#0/1
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+HWI-EAS443:3:37:1311:466#0/1
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+HWI-EAS443:3:37:1388:241#0/1
a__W_a[__aZa_]`^Y[U[YXX^W_TYXGYUUR¥WWTWV
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+HWI-EAS443:3:37:1457:1610#0/1
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+HWI-EAS443:3:37:1494:339#0/1
a`a]^bXaab_``bVbb`S`bbb]bba`ZDO_S¥aRaba]
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+HWI-EAS443:3:37:149:1859#0/1
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+HWI-EAS443:3:37:1509:1586#0/1
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+HWI-EAS443:3:37:1547:1678#0/1
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+HWI-EAS443:3:37:1636:434#0/1
a_TP[]X¥[Za]_J¥_G^aUXb^]`^Y`bNL[`R¥Q¥BBB
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+HWI-EAS443:3:37:1644:1616#0/1
Z[_¥^a_^[`b`aa`_bbbZ_bbbbbU^Q[ab``^a_a`

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aba````aaa`Y[_]^a]`_]RZ[`a`Z^V]X]]¥`Z____
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+HWI-EAS443:3:37:169:330#0/1
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+HWI-EAS443:3:37:244:511#0/1
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+HWI-EAS443:3:37:25:668#0/1
Y¥K¥]^`aaa[aaaaaab]abb_aaaaY_aa]^0^]a_`
@HWI-EAS443:3:37:269:1976#0/1
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+HWI-EAS443:3:37:269:1976#0/1
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+HWI-EAS443:3:37:293:467#0/1
a_]`^_aa`^`a`_`_`a[_a^`XKVZ]UaU_J_^^^_a
@HWI-EAS443:3:37:316:72#0/1
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+HWI-EAS443:3:37:316:72#0/1
`]]`a`````¥^¥]^¥Y__VQ¥R`__[^LNLZZWVUYQY]
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a^^¥_ZZ¥^^abb^Z]UY_aZX`^WZ]^`^QVW¥¥ZR^[`M
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+HWI-EAS443:3:37:42:381#0/1
]_Q]]¥TL[aa^_RYPVa`[R]]R][¥¥LP¥`_¥_]_[[]
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+HWI-EAS443:3:37:453:139#0/1
aVb`Q¥bbaUa[ab_``[a^``aaaaYF¥H[^_I_`a`_`_`
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+HWI-EAS443:3:37:499:447#0/1
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¥¥a^a`]^__^_U]W]a_Y_OWa`a^`^UHSSU_]¥YU[Y
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+HWI-EAS443:3:37:573:939#0/1
a¥aaaa`aaaab_aaaaaaaaa¥abaa]]JU^]aaaa_TT^
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+HWI-EAS443:3:37:583:1903#0/1
aab_baaaaba`aa_bbaa`a¥``a_[X^0__a__a`[Z^
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+HWI-EAS443:3:37:619:392#0/1
a_]a`b`_`Y``aaa``a_a`_`_a``MMY^T_a__Y]_
@HWI-EAS443:3:37:649:1012#0/1
CTGGGAGAAACCTTGTTTTACGGACCAATTCTCTTTCTAG
+HWI-EAS443:3:37:649:1012#0/1
`_]_aaaZLaab`ab[aaa`aaa`aaaa[¥baaaa```^]
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+HWI-EAS443:3:37:667:761#0/1
`ba]bb[`aaaa¥[_a]aa`_aaa`a¥]]UX^T_a__WP]`
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+HWI-EAS443:3:37:719:1584#0/1
]¥ababb`^`PT^bbaZaa_Z`bb_[`_Z]a_`a^Z_b__
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AAAAGAGAAGAAAGAAGAGCTCCAGGATTGTAATAATTGCT
+HWI-EAS443:3:37:726:496#0/1
^TXbbab`b^^`ab`aaaa`baa^aaa[YUa¥T^`]Z`_
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+HWI-EAS443:3:37:748:1351#0/1
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+HWI-EAS443:3:37:764:2045#0/1
_a`U_T`bbbb`aa^bbabaaaYaaa_V]_a^V` [¥P¥`
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+HWI-EAS443:3:37:797:1467#0/1
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+HWI-EAS443:3:37:808:352#0/1
aa[`aaaaa```_a^aa`Y`__``a`W`PY^YY_^^`X_
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+HWI-EAS443:3:37:872:1119#0/1
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+HWI-EAS443:3:37:896:995#0/1
a_]¥aa¥`a`^`Z^^a_Za`¥[¥` [¥__LKX_Q_^Z_^[[
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+HWI-EAS443:3:37:924:1201#0/1
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+HWI-EAS443:3:37:934:611#0/1
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@HWI-EAS443:3:37:938:1765#0/1
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+HWI-EAS443:3:37:938:1765#0/1
ab_Va¥a`a_U¥aa^`a`]aaa__Y¥`bTbaaVY^]a``
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+HWI-EAS443:3:37:939:1280#0/1
^a_``aa]^^]baaVab]ZZa][Y][_] ^Pa¥Z]W__U_S
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+HWI-EAS443:3:38:1023:1153#0/1
a`¥UO[XR]X_K¥S¥[_`^W]VULM`aBBBBBBBBBBBBB
@HWI-EAS443:3:38:1043:45#0/1
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+HWI-EAS443:3:38:1043:45#0/1
a`¥aa¥_Y]_S`aab`aba]a`]]^]]W_^P`Ya``[a_V
@HWI-EAS443:3:38:1063:1458#0/1
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+HWI-EAS443:3:38:1063:1458#0/1
ZV^OJR]_abaabba`R`b]Z^ab``[_`_¥P[THMY¥ZXU
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+HWI-EAS443:3:38:1063:1953#0/1
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+HWI-EAS443:3:38:1104:1658#0/1
Xa_[bb__abb``aa`a`ZR_]a_a```P[_^_a_a`aP
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+HWI-EAS443:3:38:1133:1739#0/1
aaba^X¥b`bUQT_]X`_`Z^[VUa_`[LFSLTNWW_S]_
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+HWI-EAS443:3:38:1192:1386#0/1
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+HWI-EAS443:3:38:1215:1160#0/1
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+HWI-EAS443:3:38:1225:838#0/1
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+HWI-EAS443:3:38:1235:270#0/1
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+HWI-EAS443:3:38:1278:1050#0/1
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+HWI-EAS443:3:38:1298:931#0/1
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+HWI-EAS443:3:38:1336:1588#0/1
YO^¥S_V_U][^X]LRQ_[TU]¥_VXVWLVPYSYJXTJMJ
@HWI-EAS443:3:38:133:1444#0/1
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+HWI-EAS443:3:38:133:1444#0/1
aabb____W_Sba^a`ba¥aabb`a`_a^^`aaaa]
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@HWI-EAS443:3:38:1378:893#0/1
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+HWI-EAS443:3:38:1378:893#0/1
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+HWI-EAS443:3:38:1395:896#0/1
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+HWI-EAS443:3:38:1401:528#0/1
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+HWI-EAS443:3:38:1428:942#0/1
aaaaa_^aaa_aaW]__¥aa]`[^`a]Z``XSXY`¥_]X
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+HWI-EAS443:3:38:1433:673#0/1
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+HWI-EAS443:3:38:1435:256#0/1
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@HWI-EAS443:3:38:1476:777#0/1
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+HWI-EAS443:3:38:1476:777#0/1
^Tababab^Z^[a[bab`a`bUZa_ab__PR[R[WYYX[¥
@HWI-EAS443:3:38:1484:673#0/1
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a`a`aaaaaaaZ^^aa`_a`__`aa``XYX]^`^XX^YYY
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+HWI-EAS443:3:38:1495:1669#0/1
aaabaaaabb`_a^a_a_aX`_a`^a`aVXY]]VY]]^V
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+HWI-EAS443:3:38:150:857#0/1
[aa__VMYZ`a]UYa_`^`_0_T_Y__Q_aa]_a¥W^`_R
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+HWI-EAS443:3:38:1656:568#0/1
a`^`aaabaa`_aaVba_`a`aa_`]]`aa`VR^X^]`W^_Y
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+HWI-EAS443:3:38:1675:141#0/1
a_ZSX_a`^`]ZUUURZ^V¥V^^_¥XUVYVUVIPMYXXVLK
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@HWI-EAS443:3:38:1789:1346#0/1
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+HWI-EAS443:3:38:1789:1346#0/1
V^[¥X[`b`^`a____abbbb_WX_¥b`^`ZV`VaYXZ¥ZL
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+HWI-EAS443:3:38:18:122#0/1
¥b]^`baba^Sa`ab_aaa`^`aaaa`a¥_a¥_Z_^]`^`__
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+HWI-EAS443:3:38:219:761#0/1
abbbabaaa`baaa`baabaabaaa_aa`^`]^`a_a`a_a_
@HWI-EAS443:3:38:289:1731#0/1
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+HWI-EAS443:3:38:289:1731#0/1
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+HWI-EAS443:3:38:307:1518#0/1
a^ba^`aabb_`^`Y`^`a]a`_aaaaX¥[TRUVVU^YR]]V
@HWI-EAS443:3:38:318:1830#0/1
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+HWI-EAS443:3:38:318:1830#0/1
_`a`bbbbba_b^aba¥Y`ba^_bbb_a^`_`^a^aaVaa[

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+HWI-EAS443:3:38:371:1458#0/1
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abb^K]`a]¥Za_¥_aa[aa_Vb^`a_Y_YTU[Q_U_¥¥T
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+HWI-EAS443:3:38:406:732#0/1
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+HWI-EAS443:3:38:457:2037#0/1
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+HWI-EAS443:3:38:465:929#0/1
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+HWI-EAS443:3:38:487:670#0/1
a_a`^`^`_XaYY[___S[Y¥¥I[YSSSU¥¥[PFV[PRUWP
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+HWI-EAS443:3:38:508:1783#0/1
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+HWI-EAS443:3:38:533:1176#0/1
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@HWI-EAS443:3:38:53:682#0/1
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+HWI-EAS443:3:38:53:682#0/1
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_aaaaba`aaaaZa`a`_a¥`a^`_Y^WWW^V[ZYZZW
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+HWI-EAS443:3:38:568:1703#0/1
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@HWI-EAS443:3:38:621:838#0/1
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+HWI-EAS443:3:38:621:838#0/1
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+HWI-EAS443:3:38:633:667#0/1
aaaaaa_a`aa__a`a`aaaa_```a¥V_¥X`¥^`¥¥
@HWI-EAS443:3:38:648:869#0/1
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+HWI-EAS443:3:38:648:869#0/1
a[W^a`Ubb``_aa¥XN_a`aa_a``[XJV_]_`V^]_ZV
@HWI-EAS443:3:38:668:1647#0/1
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+HWI-EAS443:3:38:668:1647#0/1
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@HWI-EAS443:3:38:730:1191#0/1
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+HWI-EAS443:3:38:730:1191#0/1
`^^_bWL_b^`a`a¥_ZXX^bbaaa_a_^aYa`ZZ]]a`]
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+HWI-EAS443:3:38:752:1082#0/1
abbWaaaa`XSXa_`Y]`a`aaa_aa^aVZX`¥[Y¥]TW
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+HWI-EAS443:3:38:753:737#0/1
^bU[X^a_P`bbU`aab`aa_`a_T]`_a[_a¥aa_^_W
@HWI-EAS443:3:38:76:1283#0/1
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+HWI-EAS443:3:38:76:1283#0/1
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@HWI-EAS443:3:38:798:822#0/1
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+HWI-EAS443:3:38:798:822#0/1
_NZ¥RW_SZZ_TZY`_TWP[S]_Q]]Y[TVTQLS¥Y__^
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+HWI-EAS443:3:38:812:568#0/1
aaa]Y`b[aa__VV`ab_aa`a_XRZ]]`¥^^[`]_a^[¥
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_N_aaa_a`V`Z`M^^[WVZ^]_____YWU[^TLY]XV
@HWI-EAS443:3:38:897:287#0/1
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+HWI-EAS443:3:38:897:287#0/1
aabaaaabbaaaaaaaaaa]`aa`a`_]aUX`^^_]^[^]]T
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+HWI-EAS443:3:38:910:922#0/1
]a`````^X`Z]Q¥]^WWZTa]M__¥XZVQUU^TSBBBB
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+HWI-EAS443:3:38:920:403#0/1
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+HWI-EAS443:3:38:94:1680#0/1
K[`_¥PXabbb`¥_¥_`babbab_TVb_ba¥UV¥Q¥__`N
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+HWI-EAS443:3:38:997:1473#0/1
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+HWI-EAS443:3:39:1002:1105#0/1
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+HWI-EAS443:3:39:1020:605#0/1
a_`aaaabbababaabbaaaa`a_aa^^a`U^[`_`^[[
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+HWI-EAS443:3:39:1038:217#0/1
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+HWI-EAS443:3:39:105:1103#0/1
``aaa`]ba_^Zaa__a[RZ`aW_[^¥]T`_VZY¥^`Z[
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+HWI-EAS443:3:39:1073:513#0/1
ZZ_bb`¥`Y_[bbba_bbaaaaa_`]aa`^ZZ]``^^aZ
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+HWI-EAS443:3:39:1074:74#0/1
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@HWI-EAS443:3:39:1094:1472#0/1
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+HWI-EAS443:3:39:1094:1472#0/1
YabbZ`_a`_]bbZaabYaRTb^aaa`]`_a_aa_[a[]`
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+HWI-EAS443:3:39:1152:1331#0/1
a`]^^aa]]_[a_`aaa]_ZX¥aa_WT¥`Z`UU_a_`X[Z
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+HWI-EAS443:3:39:1177:922#0/1
ZbaXY¥baZ^bYa`aaY]^Uaa`_`Z[`¥PV][][SQ¥]
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+HWI-EAS443:3:39:1209:271#0/1
aa[aaaaaa^W^a`aaa`a]_`_`U_`]^^^`_UW
@HWI-EAS443:3:39:1215:247#0/1
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+HWI-EAS443:3:39:1215:247#0/1
[`Va]`ba[_b^S`bbb_R[_¥a]bb[WH_¥¥Y[]YWUZ]
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+HWI-EAS443:3:39:1236:1376#0/1
aa`_bbbbbb]bb`aabbaba^aaaaaZa_a¥W_a```_a^
@HWI-EAS443:3:39:1244:1239#0/1
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+HWI-EAS443:3:39:1244:1239#0/1
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@HWI-EAS443:3:39:1295:1067#0/1
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+HWI-EAS443:3:39:1295:1067#0/1
abbaba`bbaaaba]aa¥``]]]_`a`Yaa[DR`a]_a_
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+HWI-EAS443:3:39:1325:1442#0/1
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+HWI-EAS443:3:39:1334:1787#0/1
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@HWI-EAS443:3:39:1389:636#0/1
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+HWI-EAS443:3:39:1389:636#0/1
^ET__`LVY`^`W]T]¥XPVUZYNZOJSYVRRSVBBBBBB
@HWI-EAS443:3:39:1441:227#0/1
GTGGGAGATCAATGGCCCTGAGTCAGTGCTAGTCAACACT
+HWI-EAS443:3:39:1441:227#0/1
a_aaa_a`a^a_a`^¥¥¥X^Y`YX¥^T[SWWLLSTZXUWRW

@HWI-EAS443:3:39:1466:502#0/1
AATGTCGCAGTCCCGCACTCGCGAGATACTCACTAAGACC
+HWI-EAS443:3:39:1466:502#0/1
``^_XH_ab`N^aa`_V]UZP¥]`^UY¥_[MMVQXYRXU
@HWI-EAS443:3:39:1500:1171#0/1
AAAGAAGTGAAGATCTAATGTCGCAGTCCCGCACTCGCG
+HWI-EAS443:3:39:1500:1171#0/1
aaaa`abbaaa`a`aa_aaZ¥Z```[^`^SYY_]¥SYY
@HWI-EAS443:3:39:1502:1422#0/1
CGCACTCAGAATGAAGTGGATGATGGCAATGAGATACCCA
+HWI-EAS443:3:39:1502:1422#0/1
``_^_]`^abab`VY^J``¥[`ZR¥`¥Z]_aW`BBBBBBB
@HWI-EAS443:3:39:1552:842#0/1
ATAGGGTTGAGGATTAGCTCATCTTTTCAGTTTTGGTGGGT
+HWI-EAS443:3:39:1552:842#0/1
ab_a`aYbbabbaaaa]a_`_`[aa]U`^¥T]X_Y`[aW
@HWI-EAS443:3:39:1619:1745#0/1
CTGTAATTGGGTATCTCATTGCCATCATCCACTTCATTCT
+HWI-EAS443:3:39:1619:1745#0/1
aabaa^bbb`_`^aaaa`_`a`_¥`a_a``UUY_^_^¥`XX
@HWI-EAS443:3:39:1640:285#0/1
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+HWI-EAS443:3:39:1640:285#0/1
a_`ZYZZ`^a]XaZ`XbaUU]K[aaZaYXXFRLSJWRRS
@HWI-EAS443:3:39:1644:787#0/1
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+HWI-EAS443:3:39:1644:787#0/1
abbabab`ababbbbabaaaaaaaa`_a_Y`_a`a`a`aX
@HWI-EAS443:3:39:1650:500#0/1
GGAGAAACCTTGTTTTACGGACCAATTCTTTCTAGCAT
+HWI-EAS443:3:39:1650:500#0/1
abaaabaaa`ab`aab_^]`^ZaX^abaaaaY`_a`Z^`^
@HWI-EAS443:3:39:165:1312#0/1
TAAACTGCCTGTTCCGCCGCTACTGGGAGAAACCTTG
+HWI-EAS443:3:39:165:1312#0/1
Zaa_aaa_W]`^`[^`baab_R`_]_a^T`XPLGY^`^G]R
@HWI-EAS443:3:39:1662:407#0/1
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+HWI-EAS443:3:39:1662:407#0/1
aaa`][aaaaa_]_]aaaYaT¥^^`_¥^Y^`NVWXWOWPD
@HWI-EAS443:3:39:1690:1224#0/1
GGCAAGGGGACGTAGTGTGGTAATGAAACGAAACGGGA
+HWI-EAS443:3:39:1690:1224#0/1
aa_]¥a_]_]`^V]a)`[¥a]GUZTML_]YNRVZ]VZUZL
@HWI-EAS443:3:39:1733:1160#0/1
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+HWI-EAS443:3:39:1733:1160#0/1
abba¥^abaaaa^abba_a``_]``XZa^V[^a]Y]ZW
@HWI-EAS443:3:39:1761:1081#0/1
GTCCCGTTTTGTTTTATTACCAACTACGTCCTTGCC

+HWI-EAS443:3:39:1761:1081#0/1
`]]`Yb_aaa_b^aa`a^_]`¥_aY_``_XVV`RVVVRU
@HWI-EAS443:3:39:1773:529#0/1
ACTCACTAAGACCACTGTGGACCATATGGCCATAATCAAAA
+HWI-EAS443:3:39:1773:529#0/1
¥ababb`bbbabb^`ab`baa]_W__^bb`¥Va_aSX]``
@HWI-EAS443:3:39:179:1730#0/1
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+HWI-EAS443:3:39:179:1730#0/1
aXSY`[ZP_`^Y_[a__`YY_```_]X^_VVYa¥ONWNJS
@HWI-EAS443:3:39:183:1002#0/1
TAATGTGCTAATTGGGCAAGGGGACGTAGTGTGGTAATG
+HWI-EAS443:3:39:183:1002#0/1
_QQ]YS`WX]R][^SY__[_]ZRQ¥aUL¥[_VVBBBBBBB
@HWI-EAS443:3:39:248:738#0/1
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+HWI-EAS443:3:39:248:738#0/1
a[aaa`aa`aaa^^`aaaT¥`_`_`_`[^__^_[^MW`_`_`
@HWI-EAS443:3:39:287:1613#0/1
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+HWI-EAS443:3:39:287:1613#0/1
`ba]aaaaba__aaaa_a`Z_PKWZ__^a`¥W__¥¥Y_[
@HWI-EAS443:3:39:294:1230#0/1
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+HWI-EAS443:3:39:294:1230#0/1
__X]^^aZ`U[aRXbaZGYZYb`XS¥_`b_¥¥WZQGR_]`
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+HWI-EAS443:3:39:319:164#0/1
`bbbaaba_abZbaaba]`_¥_^¥_]Y^`[GZ[YRTY^W
@HWI-EAS443:3:39:345:1109#0/1
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+HWI-EAS443:3:39:345:1109#0/1
^aa]Xaa```a___`aaa_a`W`_aa`Z^a`Q^Z_¥¥^_¥
@HWI-EAS443:3:39:36:1357#0/1
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+HWI-EAS443:3:39:36:1357#0/1
aaa`aa`S_¥QUX¥`X^[Y¥_]P[[]RT¥¥]PRT_`RUYZY
@HWI-EAS443:3:39:439:1197#0/1
CAAGGACAAACCCTCTGGAGCAAACAAACGATGCTGGAT
+HWI-EAS443:3:39:439:1197#0/1
a`¥VSa_]a[¥_aZ`^_]RXW]_X¥_¥^V^ZTWWZZUWW
@HWI-EAS443:3:39:483:1045#0/1
CCCCGTTTTGTTTTATTACCAACTACGTCCCCTTGCCC
+HWI-EAS443:3:39:483:1045#0/1
a`[XW__a`^Z_a¥¥```R¥Z^]_Z¥L^SX`[[`_OL
@HWI-EAS443:3:39:511:1257#0/1
GTCCCCTTTTTGTTTTATTACCAACTACGTCCCCTTGCC
+HWI-EAS443:3:39:511:1257#0/1
a```ab`aa^^]]`a`X]X]a``V_`[[`UR__`_XTXN

@HWI-EAS443:3:39:549:753#0/1
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+HWI-EAS443:3:39:549:753#0/1
aa`ab]``aaa_aaaa``]``Y``[V[^UVX^_^]]Y
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GGCCATATCTCTTGTCTTCTTTGCCAAAATGAGAAATCC
+HWI-EAS443:3:39:554:750#0/1
]babWZ^Y`bba`_Zb`ba`a_V]a`ZG_IZRY`_aa^`V
@HWI-EAS443:3:39:559:231#0/1
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+HWI-EAS443:3:39:559:231#0/1
aaaab`_a_P`¥^^]`a[_^U^^^^¥V^]VVVV¥^WWWQ
@HWI-EAS443:3:39:570:1096#0/1
TTTGGTTGCCTTGTGTAATTGAATACTGGAGAATTGCCT
+HWI-EAS443:3:39:570:1096#0/1
aa[]_¥W`_``a_aa_a`^^`Xa_U[]_U]X]^Y_^Y
@HWI-EAS443:3:39:575:1443#0/1
TTAGGGACAAGAGACTGAAATGGTTCAAATCCATTTTGT
+HWI-EAS443:3:39:575:1443#0/1
`b^RIQ¥Y`___Y`[^¥¥]R`a`Y_b^ZV^^XaVWVX[_
@HWI-EAS443:3:39:592:62#0/1
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+HWI-EAS443:3:39:592:62#0/1
a`Y¥___^^^PQPRV][RSTUQ]VQVYVYSGTYYYVSVY
@HWI-EAS443:3:39:595:1877#0/1
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+HWI-EAS443:3:39:595:1877#0/1
L_¥bb`bbb`bb``aabbbbaabbbbbbab`a`baaaX__
@HWI-EAS443:3:39:60:620#0/1
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+HWI-EAS443:3:39:60:620#0/1
UKa_W`aa_aZZWbZZ[[_`[RT_U[^¥R[IUWRXOMTD
@HWI-EAS443:3:39:622:425#0/1
AATTGGGCAAGGGGACGTAGTGTGGTAATGAAACGAAAA
+HWI-EAS443:3:39:622:425#0/1
__ab`^[a`aba^a_a`Y^aX`_^]aV¥[XNM^__^ZZ_[
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TGCTGTAATTGGGTATCTCATTGCCATCATCCACTTCATT
+HWI-EAS443:3:39:623:1711#0/1
¥¥`aa_a`abaY`^aaa`aa_WPY``aaa``0aa`_``^
@HWI-EAS443:3:39:623:574#0/1
GAGAAATCCTCTCAGGACAGCAGACTCCACCCAGATGTG
+HWI-EAS443:3:39:623:574#0/1
aaaabbbaaaaaaaaaa`^a`^``_`____`^[W_¥¥¥^¥UU
@HWI-EAS443:3:39:627:378#0/1
CTAATGTCGCAGTCCCGCACTCGCGAGATACTCACTAAGA
+HWI-EAS443:3:39:627:378#0/1
aaaa`a]aaa`aY^a[^aYZT]TZ]S]ZQTXSW¥Y[^^^V
@HWI-EAS443:3:39:645:749#0/1
CATCATTTCTCACTTCTCCTCCTGGAGTGACATCTGCTC

+HWI-EAS443:3:39:645:749#0/1
aaba``aba`aaaaa¥__a_]PY[^`¥_Y`_a¥^Y¥Y
@HWI-EAS443:3:39:64:599#0/1
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+HWI-EAS443:3:39:64:599#0/1
``abbbbaa_a__ba]a_bbbbaa`aa_L]ab`¥¥¥Z`_
@HWI-EAS443:3:39:650:839#0/1
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+HWI-EAS443:3:39:650:839#0/1
ab`Z_aba``V_bbab`a`aa_aaaYV^^JL`_aa]^aS
@HWI-EAS443:3:39:656:769#0/1
CTTGTGACCATTGAATTTTCACAATTTCCCAGTTCCTGAT
+HWI-EAS443:3:39:656:769#0/1
_S_WR`X`a_a_a_X`Z¥`_a]V¥^Y^_[YVZ^_V¥[^
@HWI-EAS443:3:39:706:1101#0/1
GTCCCGTTTTCGTTTTATTACCAACTACGTCCCTTGC
+HWI-EAS443:3:39:706:1101#0/1
`ababbaabbab^aaaa`a_aaaa_`aaY__a__^YY
@HWI-EAS443:3:39:749:1518#0/1
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+HWI-EAS443:3:39:749:1518#0/1
UR_[`Z¥V¥Z``Z^¥Z`[XYZ`LZT`]`[_QZXXVV¥_N
@HWI-EAS443:3:39:74:1678#0/1
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+HWI-EAS443:3:39:74:1678#0/1
aa_X_¥`b¥]W][R`¥]XOX]TH^QZH^ZNZHSWZ_]U
@HWI-EAS443:3:39:752:899#0/1
GTCATGTGCGGCAGTATTCCGATCATTCCCATCACATTGT
+HWI-EAS443:3:39:752:899#0/1
`ab_aaab_`^`aaaXaaaa`a]`aaa[¥¥V`a__a_V
@HWI-EAS443:3:39:755:778#0/1
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+HWI-EAS443:3:39:755:778#0/1
abaa¥ab`Xa¥a`ab`X_]aZ[a`_^Z`a¥¥^`Z^_^_W
@HWI-EAS443:3:39:772:621#0/1
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+HWI-EAS443:3:39:772:621#0/1
_aaa[`bbba``baa`[bba_baabaZ^a`[S[_^]^^^U
@HWI-EAS443:3:39:77:78#0/1
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+HWI-EAS443:3:39:77:78#0/1
aaaa]aa`aa``a`Z[]__Y^`_^`_UY]]X]XVY]XY
@HWI-EAS443:3:39:80:1940#0/1
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+HWI-EAS443:3:39:80:1940#0/1
aba`abbbabbabababaaaaabZaaba`abaZ¥^aa^YTP
@HWI-EAS443:3:39:832:1426#0/1
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+HWI-EAS443:3:39:832:1426#0/1
YFV¥]X`Wa^Xa_]]Z`a¥XZ[aPUG]_[DKZ_TULYRR

@HWI-EAS443:3:39:840:1127#0/1
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+HWI-EAS443:3:39:840:1127#0/1
]]baaa[`baaaaabb`a`a`a_aa^Y^`ZR^aaa]`VU
@HWI-EAS443:3:39:855:565#0/1
GAAAAGCACTTTTGCATCTTTTTGGAAATGCCTCAAGAGT
+HWI-EAS443:3:39:855:565#0/1
a`````aa^a^Ya__aa`_`a`_`^U]T_]`_G^_Z]^`W
@HWI-EAS443:3:39:877:1234#0/1
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+HWI-EAS443:3:39:877:1234#0/1
aaabaa^baa^]UYaa¥aXXXaaa^`^Y¥UU¥WW^_V]XT
@HWI-EAS443:3:39:880:1595#0/1
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+HWI-EAS443:3:39:880:1595#0/1
a^]_ab`a`_`aa^L`^`_a^aW_WVZ^`_a0^UaU_YRV
@HWI-EAS443:3:39:922:1443#0/1
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+HWI-EAS443:3:39:922:1443#0/1
a`^W_aTXYXRZZ]_ba^]W_baaa^Z_QQYX]W`NWOOF
@HWI-EAS443:3:39:932:1249#0/1
GCTGTAATTGGGTATCTCATTGCCATCATCCACTTCATTC
+HWI-EAS443:3:39:932:1249#0/1
_a`^]`^abb```¥`a`a]^a^`aaaa`b_ba¥_a`]^a[R
@HWI-EAS443:3:3:1052:788#0/1
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+HWI-EAS443:3:3:1052:788#0/1
`Z`W___a]0[[_`__SI^_YQ[]¥YVWaa¥RZVGY¥W__B
@HWI-EAS443:3:3:1060:1100#0/1
TGCTGTCCTGAGAGGATTTCTCATTTTGGGCAAAGAAGAC
+HWI-EAS443:3:3:1060:1100#0/1
_X_b`Ta]Y_`a`^`0_``¥^Y[`aa__a¥[Y^`^`^[_Y
@HWI-EAS443:3:3:1092:271#0/1
AAAGAAGTCTAATGTCGCAGTCCCGCACTCGCG
+HWI-EAS443:3:3:1092:271#0/1
a]Yba¥R^]_Z^aZ^G_____aY^aXZ_LFLRXW^NVRZBB
@HWI-EAS443:3:3:1093:1926#0/1
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+HWI-EAS443:3:3:1093:1926#0/1
a`_a_```a`a`_W__W``YS^¥_[ZW¥WYWYWUSUGZBB
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+HWI-EAS443:3:3:1096:1639#0/1
ab^_[a`¥_]`_`_b_]aS`_`¥[N[___U`_NVX]__TUB
@HWI-EAS443:3:3:1144:145#0/1
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+HWI-EAS443:3:3:1144:145#0/1
`a_aZaaZa^WT]^`T_a`a¥^a``aaXY[]^[[NWR¥B
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+HWI-EAS443:3:3:1155:455#0/1
a` ``a_a¥a_aaaW_[V_aQ¥¥_^UYYZW¥W]V^TNTS[B
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GCCATTCTATTCCACCATGTTACGGCCAGAGGTGATACC
+HWI-EAS443:3:3:1156:636#0/1
a`a`aaa_aaaa__`¥¥_aa_____`_]^^Y^Z¥W^U¥ZQB
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+HWI-EAS443:3:3:1215:784#0/1
aaaabab_baaab__`^`a]^_a_Z]^_[_[a¥a¥^ZS¥W
@HWI-EAS443:3:3:1243:496#0/1
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+HWI-EAS443:3:3:1243:496#0/1
a`b`R¥a]^`]Wa^`b_]_YabW^`¥a_PZY_`]YQVX`UV
@HWI-EAS443:3:3:1244:1764#0/1
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+HWI-EAS443:3:3:1244:1764#0/1
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@HWI-EAS443:3:3:1334:1645#0/1
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+HWI-EAS443:3:3:1334:1645#0/1
ab`a`^a[`Nb[`_`a]b^ba`_aZ^a¥a__XU[XN^BBB
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+HWI-EAS443:3:3:1373:110#0/1
a`aa_`a]aaaU`a]^`^a_ZaaVZZ_Z_YWYWW¥UYBBB
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+HWI-EAS443:3:3:1388:1390#0/1
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@HWI-EAS443:3:3:1394:67#0/1
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+HWI-EAS443:3:3:1394:67#0/1
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@HWI-EAS443:3:3:139:991#0/1
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+HWI-EAS443:3:3:139:991#0/1
`bbbbbbbaabbbbaabaababb__ab_a¥^R`X^N_XBBB
@HWI-EAS443:3:3:1402:463#0/1
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+HWI-EAS443:3:3:1402:463#0/1
aa````R^Kbaaa`````a[ba^]UXbUN¥Raaa_ZU¥XB
@HWI-EAS443:3:3:1408:1270#0/1
GAATAAAAGAACTGAGAGATCTAATGTCGCAGTCCCGCAC
+HWI-EAS443:3:3:1408:1270#0/1
`^`aa^`_]`Y_a_`aZa`^aa^`aV^]]^`¥YY^VRXB
@HWI-EAS443:3:3:1416:721#0/1
ATTCAATCCCCAGTTCTGGAAAAGCACTTTTGCATCTTT
+HWI-EAS443:3:3:1416:721#0/1
V``X[L[``_`b_`X`_]`[`ba`a`R`a_aaa`IT`Ka]a

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+HWI-EAS443:3:3:1418:198#0/1
aaba]Z`^]aaaaZSS]aaa¥__a__a`[]aQ__` `[US^
@HWI-EAS443:3:3:1422:787#0/1
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+HWI-EAS443:3:3:1422:787#0/1
ab_]bbaaW`babaa`abbaaabbaa``¥Waa`aWY^_`
@HWI-EAS443:3:3:1460:630#0/1
TGAGAAATCCTCTCAGGACAGCAGACTCCACCCAGATGT
+HWI-EAS443:3:3:1460:630#0/1
abbababbaabaa``aaaaa`ab`aa_`a¥_ZV``¥^_¥
@HWI-EAS443:3:3:1471:439#0/1
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+HWI-EAS443:3:3:1471:439#0/1
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+HWI-EAS443:3:3:1480:1615#0/1
aba_`aaaa[ab_aYbabb_^aaa_^a^aaZa]]^`a_
@HWI-EAS443:3:3:1480:662#0/1
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+HWI-EAS443:3:3:1480:662#0/1
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+HWI-EAS443:3:3:1520:431#0/1
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@HWI-EAS443:3:3:1525:1253#0/1
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+HWI-EAS443:3:3:1525:1253#0/1
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@HWI-EAS443:3:3:1549:710#0/1
ATCCAGCATCGTTTGTGTTTCTCCAGAGGGTTTGTCTTG
+HWI-EAS443:3:3:1549:710#0/1
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+HWI-EAS443:3:3:261:1043#0/1
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+HWI-EAS443:3:3:262:812#0/1
^¥bZTZ^]_a_b_[a` `b`_Za`aab`_]aa`a`_R`
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+HWI-EAS443:3:3:377:1179#0/1
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a_bba^a` `aa`]_^`_a¥` ` `_]S]_VV]_]_]_RL
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@HWI-EAS443:3:3:399:155#0/1
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+HWI-EAS443:3:3:399:155#0/1
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ab^_aaaaaaaa`_aaaaa_____a`____aa_^]__`
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_`_aaX`__`_)¥]_XTZV)`aaaV`_`_W[FR]U¥NR[
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+HWI-EAS443:3:3:973:1526#0/1
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+HWI-EAS443:3:40:1037:879#0/1
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+HWI-EAS443:3:40:1287:1587#0/1
Z_WWV[_]T`_U_]P_Y]a_]ZY¥H¥¥a¥VUPHXO_¥a`
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+HWI-EAS443:3:40:1309:1695#0/1
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+HWI-EAS443:3:40:1315:587#0/1
_`^[[_T_bb_b`^[]`__ba_`UHP¥DY``aa_`ZROX
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+HWI-EAS443:3:40:1363:632#0/1
aab][aa``a^a^a`_^¥_a`^^^```VV^]_`Y_^]_
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`Z_PI`aaW¥^`^]aa_Ya^`b`NX_[a¥YP^X`PZP¥^
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¥_¥a`¥Z¥H__`bW`a^SaY`aONU`a_FLMW¥_¥^^]X
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+HWI-EAS443:3:40:1553:97#0/1
a`_¥_¥Z¥_¥__ZYY^]Y^¥_^¥YWUG[HVYVW¥YWYWIW
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+HWI-EAS443:3:40:1642:1201#0/1
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+HWI-EAS443:3:40:1675:1594#0/1
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+HWI-EAS443:3:40:1693:241#0/1  
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+HWI-EAS443:3:40:169:1101#0/1  
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+HWI-EAS443:3:40:1701:172#0/1  
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aa\_X\_U]ZV[]a]K\_aYaV]V]ZXU\_¥[^¥WV\_a¥RZ\_N]  
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ATCTAATGTCGCAGTCCCGCACTCGCGAGATACTCACTAA  
+HWI-EAS443:3:40:276:1219#0/1  
a[^`\_Z]aaJ[^[]`¥`a[T\_\_\_^]Y^TPYRYZ`ZWJY[Y]  
@HWI-EAS443:3:40:352:1618#0/1  
AAAGAACTGAGAGATCTAATGTCGCAGTCCCGCACTCGCG  
+HWI-EAS443:3:40:352:1618#0/1  
aa^`[]]a`aX¥[a\_\_\_`aaa¥Z^Z`aYYaaZRUL¥¥aTaR  
@HWI-EAS443:3:40:35:1397#0/1  
CGTTTTCGTTTCATTACCAACTACGTCCCTTGCCCAA  
+HWI-EAS443:3:40:35:1397#0/1  
ab^`abbb`aabb`a\_aaa\_a^aba¥^aa[^`^U^a^¥W]  
@HWI-EAS443:3:40:404:867#0/1  
GTTCCGCCGGCTACTGGGAGAAACCTTGTTTTACGGACCA  
+HWI-EAS443:3:40:404:867#0/1  
a`\_`\_`\_`\_]W^`WLZ\_YNYUQaV[UUZU[V`WXUWUUUY  
@HWI-EAS443:3:40:423:164#0/1  
CTCGCGAGATACTCACTAAGACCACTGTGGACCATATGGC  
+HWI-EAS443:3:40:423:164#0/1  
aa``baaa`a`\_\_aaaaYaaa``\_\_^^^]]\_\_UTZ¥]]]

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+HWI-EAS443:3:40:444:175#0/1  
aaTL¥¥KXX`V`¥^Y`a¥STPBBBBBBBBBBBBBBBBBBB  
@HWI-EAS443:3:40:463:1069#0/1  
GTCCCGTTTTCGTTTCATTACCAACTACGTCCCCTTGC  
+HWI-EAS443:3:40:463:1069#0/1  
aX\_\_ZXY\_a\_`T\_¥]`\_\_]`XXXOP]YWGJUUX\_^Y^OVRY  
@HWI-EAS443:3:40:46:684#0/1  
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+HWI-EAS443:3:40:46:684#0/1  
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CATTATTCTCTTGTCTGCTGTAATTGGGTATCTCATTGCC  
+HWI-EAS443:3:40:502:481#0/1  
`\_aY` `` `¥\_a`aZaa\_\_^\_ZX^\_a¥XXMZ\_\_\_\_`^SY\_]X  
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GAACTGTACTTGTGTTGGGCCATTCTCATTCCACCATGT  
+HWI-EAS443:3:40:50:1137#0/1  
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+HWI-EAS443:3:40:532:2006#0/1  
`]S¥` `aaa`\_aU[]aabaaa` `\_[[H\_Z[P^\_¥`\_a\_Z`Y  
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+HWI-EAS443:3:40:544:1034#0/1  
`^^\_Wab\_Q`]aaaaaa`a`Zb\_`XXT`\_\_Z^H^T`Z`¥  
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+HWI-EAS443:3:40:582:1970#0/1  
a`a[`aaaaVba]^R\_a[aaTa^\_a¥¥a\_VU`Y^YaGaW  
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+HWI-EAS443:3:40:583:166#0/1  
aaaaaaaaaaaa`aa`aa` `\_^a` `¥`W`U`^^[`¥^\_W\_T  
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+HWI-EAS443:3:40:586:1151#0/1  
¥aaXa¥¥bb\_[ba`b`[aH\_\_aaaa\_baZ\_Y\_M\_YS`ba  
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+HWI-EAS443:3:40:607:258#0/1  
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+HWI-EAS443:3:40:613:105#0/1  
a]babb]aaabbaa]bbbbaaa`a\_a^YW`^a`Z^V]ZX¥  
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+HWI-EAS443:3:40:622:1382#0/1  
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+HWI-EAS443:3:40:629:1218#0/1  
[ab]`bZbZ``aZ]\_aa^[U]a[VSYHV[Q]MVZ^`X\_  
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+HWI-EAS443:3:40:662:1685#0/1  
[V\_V\_a`bWU\_[`abaaaVb]]`a]Rababaa[b\_a\_]\_a  
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+HWI-EAS443:3:40:665:954#0/1  
a`b\_\_aaa`bb\_\_`abaaa^`aa`[Wa\_\_\_aSaWaW`\_\_  
@HWI-EAS443:3:40:679:1094#0/1  
CAGTGGTCTTAGTGAGTATCTCGCGAGTGGGGACTGCGA  
+HWI-EAS443:3:40:679:1094#0/1  
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+HWI-EAS443:3:40:679:180#0/1  
a`¥`\_]\_Y[[^^[^][YTRS[WSYWRNYNNSSBBBBBBB  
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+HWI-EAS443:3:40:742:560#0/1  
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@HWI-EAS443:3:40:788:1396#0/1  
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+HWI-EAS443:3:40:788:1396#0/1  
aaaaaaaa`a`````a`````\_`ZaZ\_Y`a\_\_\_a\_`X^\_`]  
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+HWI-EAS443:3:40:797:222#0/1  
^PJU`¥SSTa]b\_aI`\_`b`^^Z¥¥ZO¥]QWaaT`[\_YRZ  
@HWI-EAS443:3:40:827:1434#0/1  
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+HWI-EAS443:3:40:827:1434#0/1  
a`a`aaaa]\_aa\_a^\_a\_\_`\_\_\_^\_\_```\_\_\_`^a\_^  
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+HWI-EAS443:3:40:931:95#0/1  
abb`^\_b`b[b^¥bbaa¥\_TZaa`\_`\_\_\_]Z\_a]`^]\_\_^  
@HWI-EAS443:3:40:951:614#0/1  
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+HWI-EAS443:3:40:951:614#0/1  
^^bbVXYabaabaab\_abaabaa\_XaV¥a`\_]\_YH^\_[[]\_  
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+HWI-EAS443:3:40:996:1712#0/1  
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+HWI-EAS443:3:42:1007:2001#0/1  
aVZV`bbaXb\_aaa\_b\_QYUZbbaXbX¥\_bbaS^aaSaa\_  
@HWI-EAS443:3:42:1028:1179#0/1  
GGGGACGTAGTGTGGTAATGAAACGAAAACGGGACTCTA  
+HWI-EAS443:3:42:1028:1179#0/1  
\_a]\_^`b\_aa[``b]a\_aaV0[bbaa^Z\_]X[]¥^¥[^N[  
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+HWI-EAS443:3:42:1035:1159#0/1  
aab\_baYV¥\_aaaY``a^\_a\_¥aa^`a[\_]\_]Y¥Z`\_`]  
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aabb`abbab^a`a\_a``¥Ua¥`¥ZL]Y`aaZ^^`\_`S¥^  
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GTGGAATAGGAATGGCCCAACAACAAGTACAGTTCATTAC  
+HWI-EAS443:3:42:1052:812#0/1  
a`aa`aabbaaab`aaaaa\_\_ba`aaa^a`aa`\_`baaa\_  
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+HWI-EAS443:3:42:1059:981#0/1  
\_\_b\_ab\_aaa`b`\_a]aa````a\_\_a\_a`Y\_Y\_\_]X]^  
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+HWI-EAS443:3:42:106:473#0/1  
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+HWI-EAS443:3:42:1100:1669#0/1  
a\_aPabU`[YX`0\_]\_]\_NZ`\_^\_\_X`\_aZ\_\_YVUY]]¥^Y  
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+HWI-EAS443:3:42:1101:973#0/1  
abb`baaa``aaaaa\_a`\_aa`aaWa`\_\_Z`\_`\_\_aW\_\_^  
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+HWI-EAS443:3:42:1104:355#0/1  
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+HWI-EAS443:3:42:1120:1311#0/1  
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+HWI-EAS443:3:42:1144:1932#0/1  
\_Y^V]¥ZX[]S¥Y]`XSa\_]TQ]`^][\_`^¥Y^[UTV]XUX  
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V\_ba`WZ\_VZ^VZ\_WW`L]Va\_SZH\_V\_]\_ZT0`X\_a`a  
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+HWI-EAS443:3:42:1195:1429#0/1  
Z\_^]\_U\_X[^`aab`a\_Z]^]YWQUY\_LaXUO[F[MYaZT  
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+HWI-EAS443:3:42:120:641#0/1  
a[aa\_aaaa[\_`a\_`aa`¥`a\_`a^`\_\_\_\_Y\_¥^V]H[  
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+HWI-EAS443:3:42:1230:396#0/1  
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+HWI-EAS443:3:42:1248:538#0/1  
S¥^Z¥^\_\_`\_`[\_`^aaa`\_\_`\_`\_]a`aa^b`a\_a`Z`]  
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+HWI-EAS443:3:42:1259:1333#0/1  
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+HWI-EAS443:3:42:1281:1786#0/1  
aba`aaaa`aab`b```aaaaaaaaaab\_aaa\_`\_aa`a]  
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+HWI-EAS443:3:42:1298:972#0/1  
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+HWI-EAS443:3:42:1302:912#0/1  
Y^`V[\_Y[¥]P\_`bbaZ`bW[`abaX¥\_`^\_I]\_¥[W¥`a  
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+HWI-EAS443:3:42:1310:1110#0/1  
a`TZ¥ZX^^]X¥\_\_`ZZUTS¥V¥X\_N]\_VGQZV\_^TUK  
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+HWI-EAS443:3:42:1324:1365#0/1  
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+HWI-EAS443:3:42:1376:1678#0/1  
`^bZaa\_U\_YVW\_Y]^aS]^a`^`^`a^V\_`^`R[aZ¥P[  
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+HWI-EAS443:3:42:1392:1949#0/1  
^X¥RW]aWL[aZ`^`a¥S]^Xaa[^]]¥M[a`T]S`a\_[U  
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+HWI-EAS443:3:42:1409:1692#0/1  
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+HWI-EAS443:3:42:1429:1019#0/1  
aa`aaba\_a\_a[^X\_a`^aaZ`^ZV^\_`¥¥`^\_V\_\_\_Y^V  
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+HWI-EAS443:3:42:143:1335#0/1  
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+HWI-EAS443:3:42:1456:1390#0/1  
ababb\_\_a]¥`aZX^a\_YR^Z\_a¥¥\_\_a]¥]V]VWZ\_\_a  
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+HWI-EAS443:3:42:1509:1232#0/1  
a`\_a`abaa`^b[\_abaa]\_a\_`aaaa`\_YW^a\_a]a\_\_  
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+HWI-EAS443:3:42:1567:388#0/1  
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+HWI-EAS443:3:42:1568:791#0/1  
¥\_]\_^`bX¥\_a\_abb`bbbaaab[``abaZaa^a\_baaa`  
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CAATCCCCAGTTCTGGAAAAGCACTTTTGCATCTTTTGTG  
+HWI-EAS443:3:42:1587:1291#0/1  
aa]^`bb^]b¥aaa`aa¥^b\_¥^a\_bb[¥`[`ZP\_aa`a^  
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+HWI-EAS443:3:42:1590:1781#0/1  
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@HWI-EAS443:3:42:166:1991#0/1  
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+HWI-EAS443:3:42:166:1991#0/1  
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+HWI-EAS443:3:42:1689:604#0/1  
aaa`\_a\_a\_\_^`Z\_`¥¥`aY^`T`\_Y^`¥¥`¥WVU^^¥\_Y  
@HWI-EAS443:3:42:1716:1542#0/1  
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+HWI-EAS443:3:42:1716:1542#0/1  
H]S`U¥`\_`bab\_]aab`abb]aa`a`aa]a`^¥Raa\_a¥  
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+HWI-EAS443:3:42:1747:1330#0/1  
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+HWI-EAS443:3:42:252:2038#0/1  
a``a]`aa```\_]a[`aa^T\_a\_]`[^`^`V`^`\_XS[a\_a  
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+HWI-EAS443:3:42:275:196#0/1  
aL¥^¥YY\_Z]VUZLFS\_a¥VT[^RP¥YLZNS[]]¥PX\_[Z[  
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+HWI-EAS443:3:42:292:405#0/1  
aaaabaa`aaaaaaa`a`a`a`a`a\_aa`a`a`\_a]\_`  
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+HWI-EAS443:3:42:304:1059#0/1  
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+HWI-EAS443:3:42:312:618#0/1  
aaa`aaaa\_\_aa\_a¥\_\_a^ZG^[[Z`]U¥[Y¥[VUZ[¥\_¥

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+HWI-EAS443:3:42:318:743#0/1  
\_¥bbb\_ba^` `babbb`Z^W` [bab^b[ ` \_a` ]a` `Y^\_  
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GAACTGTACTTGTGTTGGGCCATTCCCTATCCACCATGT  
+HWI-EAS443:3:42:333:1994#0/1  
aaa\_^`P¥\_bb[T\_U]\_aaaaY]a^`^]a\_\_baaab¥GX  
@HWI-EAS443:3:42:336:147#0/1  
GCCATATCTCTTGTCTTCTTTGCCCAAATGAGAAATCCT  
+HWI-EAS443:3:42:336:147#0/1  
`Z[T\_^[U^\_aa]NN^` \_^VTZFTQPO[\_Z\_WQTWZVV  
@HWI-EAS443:3:42:354:917#0/1  
AGCACGTCCCTTGGGTTAAGTGCAACACTTCAATATAAAC  
+HWI-EAS443:3:42:354:917#0/1  
^]]ba\_¥`ZU` `aaaZX]]XUa` `a` `aX` ` `X` `\_\_a\_\_\_\_  
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+HWI-EAS443:3:42:359:1400#0/1  
aaaaaaabbbbabaabbaYaaaa[PZYaba\_aPU\_aZ^a  
@HWI-EAS443:3:42:384:1896#0/1  
GGAGTCTGCTGTCCTGAGAGGATTTCTCATTTTGGGCAAA  
+HWI-EAS443:3:42:384:1896#0/1  
S\_`YUaTaab`abbaU`ab`ab`\_`aa`Ta]ab\_F]]^bba  
@HWI-EAS443:3:42:393:529#0/1  
CAGTGGTCTTAGTGAGTATCTCGCGAGTGC GGACTGCGA  
+HWI-EAS443:3:42:393:529#0/1  
a`aaaaZ`baXa`bb` `b` `^]UT[MWZ\_XX\_^[UX` `^V  
@HWI-EAS443:3:42:39:535#0/1  
ATTTTACAATCCTGGAGCTCTTCTTTCTTCTTTTGTTA  
+HWI-EAS443:3:42:39:535#0/1  
aabb`]aa[a`b^^¥R\_\_`\_a`] `aa`a`\_a]aa^` `]a]  
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CCGTTTTCGTTTCATTACCAACTACGTCCCCTTGCCCA  
+HWI-EAS443:3:42:448:1733#0/1  
a` ` \_bbbbbaabbbbabbabbab`babaababa\_]aaa¥  
@HWI-EAS443:3:42:469:639#0/1  
GGTTCACCTTTCAAAGGACAAGCGGATCATCAGTCAAGAA  
+HWI-EAS443:3:42:469:639#0/1  
a\_^a` ` `aaaaaaaa^a` `\_]` ` `\_\_^` ` ` `^\_Z^\_]^^\_  
@HWI-EAS443:3:42:488:1044#0/1  
AGGATGTCCACCATCCTTACTCCTCCAATCTGTGTGCTGT  
+HWI-EAS443:3:42:488:1044#0/1  
`abab`\_b\_^`YY`\_`bbbb`\_]aaba^aa`¥¥[\_\_\_\_P  
@HWI-EAS443:3:42:499:1458#0/1  
GTCCCCTTTTTCGTTTCATTACCAACTACGTCCCCTTGC  
+HWI-EAS443:3:42:499:1458#0/1  
\_U`]a`Y\_^aXa]¥a`¥a]XX]aa`]\_`^[]X\_Q]Z]VV\_  
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+HWI-EAS443:3:42:530:64#0/1  
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+HWI-EAS443:3:42:531:253#0/1  
a``\_ab\_aaa`aaaa`a`a\_[Z]`aa\_`^\_X^V[^\_Q\_W  
@HWI-EAS443:3:42:635:1338#0/1  
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+HWI-EAS443:3:42:635:1338#0/1  
ab`bbbabab^[Waab\_ab`ab`abb\_ab`aa[aaaabY  
@HWI-EAS443:3:42:640:1560#0/1  
GGAGTCTGCTGTCCTGAGAGGATTTCTCATTTTGGGCAAA  
+HWI-EAS443:3:42:640:1560#0/1  
a`S`[ZZa[PVW[XZXPY[`XV[a`Z`^[]``\_[HZW¥YY  
@HWI-EAS443:3:42:656:535#0/1  
GACCGATTTTAAAGGGTTAGAGATCAAAGAGGGAACGTAC  
+HWI-EAS443:3:42:656:535#0/1  
^aa¥^\_bbbb`Y`¥`aab\_abaa``aaa]``b¥a`a]^\_  
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+HWI-EAS443:3:42:716:458#0/1  
aab`\_aaa¥]`¥\_ZZWaa`^HRXYZX[MXV^[RV\_`\_]U\_  
@HWI-EAS443:3:42:722:535#0/1  
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+HWI-EAS443:3:42:722:535#0/1  
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+HWI-EAS443:3:42:736:176#0/1  
aba`a\_aaa\_a`a`\_Xaa`aaYa\_`a\_¥\_¥\_WTZ\_¥`\_¥`  
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+HWI-EAS443:3:42:737:895#0/1  
]¥bb``\_abb\_b\_X\_¥¥¥baba]aa``Za\_]\_Za^b^W`\_  
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+HWI-EAS443:3:42:753:1595#0/1  
]a```a\_U`baa\_baUababaZbaXaabaXSY`\_a]\_\_a  
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+HWI-EAS443:3:42:765:1103#0/1  
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GGACATGATTCCAGAGAGGAATGAACAAGGACAAACCTC  
+HWI-EAS443:3:42:776:1378#0/1  
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AAAGAAGTGCAGATCTAATGTCGCAGTCCCGCACTCGCG  
+HWI-EAS443:3:42:826:764#0/1  
[MaaIW\_¥aaa^[]`ab]``b^^`\_a\_G`\_Xa`\_\_a\_\_Y`

@HWI-EAS443:3:42:86:428#0/1  
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+HWI-EAS443:3:42:86:428#0/1  
aababbaaaaa`aaaaa]aa`aaa\_a]a\_Y`a^]V`aZ\_  
@HWI-EAS443:3:42:877:1173#0/1  
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+HWI-EAS443:3:42:877:1173#0/1  
\_`Xa[bb^0aa`Pa`a\_bSUa^^^`\_]\_\_`\_`a`]^aZ  
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+HWI-EAS443:3:42:88:1387#0/1  
a`ba[[b^T`¥]V^aNP]]WZ\_a\_H\_`\_X\_¥R]^X]ZXX  
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+HWI-EAS443:3:42:898:1767#0/1  
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+HWI-EAS443:3:42:925:1167#0/1  
aabaWZRVYaUaa]Zaa\_^LSSGZLX]X]\_¥PUXGXXT]T  
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+HWI-EAS443:3:42:925:270#0/1  
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+HWI-EAS443:3:42:929:658#0/1  
abY`]^aaaaa`aaa^]aa\_aa[Y`\_^`\_¥aYa\_  
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GGGCGATCTGAACCTTGTCAATAGGGCAAACCGACTG  
+HWI-EAS443:3:42:932:999#0/1  
\_a`aUY[^¥a^`aa¥]\_b¥`Y`b[\_`ba`\_^a[^¥a¥`  
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+HWI-EAS443:3:43:1001:1185#0/1  
aa^`]`K¥\_UU\_\_`ZaZ^`^`a\_¥^^`^aT]^YU\_¥^Y\_U  
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AAAGAAGTGAAGATCTAATGTGCGAGTCCCGCACTCGCG  
+HWI-EAS443:3:43:1002:1573#0/1  
aa^^`baaab\_a`aa\_`babaY]`\_\_aY\_\_aY`^\_¥`¥WU  
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+HWI-EAS443:3:43:1011:1162#0/1  
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+HWI-EAS443:3:43:102:876#0/1  
aaab¥`aX]a¥a`[^`^`0a\_X`ZS`a^V\_\_ZPYRV\_YV[  
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+HWI-EAS443:3:43:10:1886#0/1  
¥\_Z[SYa`^¥^[WV^^]a\_] [[^U[XP^[^THYPZYR]X  
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+HWI-EAS443:3:43:1124:1443#0/1  
^¥X]¥Za`ab`aWa`^\_]TXQaYY\_]Xa\_``][YU[¥^YL  
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CCCCGCACTCAGAATGAAGTGGATGATGGCAATGAGATAC  
+HWI-EAS443:3:43:1192:1082#0/1  
abbabb\_bbabbaabba`a^baabbaaaba`ba`aaa`¥  
@HWI-EAS443:3:43:1194:298#0/1  
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+HWI-EAS443:3:43:1194:298#0/1  
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+HWI-EAS443:3:43:1195:354#0/1  
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+HWI-EAS443:3:43:1239:481#0/1  
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@HWI-EAS443:3:43:1240:1654#0/1  
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+HWI-EAS443:3:43:1240:1654#0/1  
P]G]\_YV¥W\_Xa\_V^TU\_NX\_T¥TT[\_^]OZa¥ab\_a][  
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+HWI-EAS443:3:43:1279:226#0/1  
R``a``\_U\_\_bb`X`a]`¥a`¥¥`^`¥`¥\_\_THV]`\_V  
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+HWI-EAS443:3:43:1287:1021#0/1  
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+HWI-EAS443:3:43:1303:1800#0/1  
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+HWI-EAS443:3:43:1309:410#0/1  
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GTCCATTATTCTTGTCTGCTGTAATTGGGTATCTCATT  
+HWI-EAS443:3:43:1311:111#0/1  
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+HWI-EAS443:3:43:1321:884#0/1  
RXa\_`W`aaabbbb`a`a`ab¥bbbaba[`ba¥Y\_a`]X  
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+HWI-EAS443:3:43:1329:520#0/1  
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@HWI-EAS443:3:43:1362:701#0/1  
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+HWI-EAS443:3:43:1362:701#0/1  
ab¥^`ababaa`aaa¥aaa¥a`a`\_¥`\_Zaaa]`\_`\_\_\_W  
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+HWI-EAS443:3:43:1377:905#0/1  
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+HWI-EAS443:3:43:1396:1155#0/1  
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+HWI-EAS443:3:43:1461:1237#0/1  
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@HWI-EAS443:3:43:14:92#0/1  
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+HWI-EAS443:3:43:14:92#0/1  
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TAAGGATGTCCACCATCCTTACTCCTCCAATCTGTGTGCT  
+HWI-EAS443:3:43:1510:1269#0/1  
`¥`\_`aa^]\_¥^^aa^a^\_]^[aaaaZ^R]a`a^¥T[Y[V  
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+HWI-EAS443:3:43:1510:164#0/1  
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+HWI-EAS443:3:43:1517:277#0/1  
]\_`^a`\_`bbab^a¥a\_ba`ba]`\_¥a\_Y]\_]¥[ZZ]Y[Q  
@HWI-EAS443:3:43:1527:713#0/1  
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+HWI-EAS443:3:43:1527:713#0/1  
a][\_W`]aa\_b\_a¥X\_a`^[]a\_a[V[Y]VXTSUY[VJ  
@HWI-EAS443:3:43:1550:506#0/1  
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+HWI-EAS443:3:43:1550:506#0/1  
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+HWI-EAS443:3:43:1554:1004#0/1  
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TGGTGGCGTACATGCTAGAAAGAGAATTGGTCCGTAAAAC  
+HWI-EAS443:3:43:1556:541#0/1  
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CAGCATCGTTTGTGGTCCAGAGGGTTTGTCTTGTTTC  
+HWI-EAS443:3:43:1559:2040#0/1  
aaba`¥¥b[b`b\_¥]a`]a[W\_a\_aaaR`aa]UZ]¥^\_^\_  
@HWI-EAS443:3:43:1609:397#0/1  
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+HWI-EAS443:3:43:1609:397#0/1  
[bV\_babab]\_b^[ba`Z``a\_babW`aaa[b¥`b¥X]\_a  
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GAACAAGGACAAACCCTCTGGAGCAAAACAAACGATGCTG  
+HWI-EAS443:3:43:1641:772#0/1  
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+HWI-EAS443:3:43:1643:1716#0/1  
aaaa`bbabbabaabbbbab`baababaaaa^^¥ab\_^`  
@HWI-EAS443:3:43:1644:377#0/1  
TGTCCATTATTCTTGTCTGCTGTAATTGGGTATCTCAT  
+HWI-EAS443:3:43:1644:377#0/1  
aaaa`abbaba`a\_baba\_aa^aa`\_\_aaa`\_Y\_a]\_Z``  
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+HWI-EAS443:3:43:1659:1274#0/1  
ab\_Z`a¥^`^Z^a``^ba`\_`\_a^a^^]a`a^^`\_]`\_¥^  
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CTCTCTGGAATCATGTCCATTATTCTTGTCTGCTGTAA  
+HWI-EAS443:3:43:1663:573#0/1  
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@HWI-EAS443:3:43:1712:635#0/1  
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+HWI-EAS443:3:43:1712:635#0/1  
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TAATGTGCAGTCCCGCACTCGCGAGATACTACTAAGAC  
+HWI-EAS443:3:43:1715:649#0/1  
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@HWI-EAS443:3:43:1717:1941#0/1  
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+HWI-EAS443:3:43:1717:1941#0/1  
a^aa``^ZW\_]aa`[`¥^]^^Y¥¥aXaaa¥WR[[\_\_\_\_[WL  
@HWI-EAS443:3:43:1735:1165#0/1  
GAATGAACAAGGACAAACCCTCTGGAGCAAAACAAACGAT  
+HWI-EAS443:3:43:1735:1165#0/1  
aaa`a`aaaaa\_^a`]a\_\_a[aa][^^¥YX[W^^XT¥]X

@HWI-EAS443:3:43:17:1327#0/1  
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+HWI-EAS443:3:43:17:1327#0/1  
aaab`aZaba``\_aaaaaaaa^aa`aaaa`]Z^V\_`\_^X  
@HWI-EAS443:3:43:195:1456#0/1  
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+HWI-EAS443:3:43:195:1456#0/1  
aabaabab[bbbbbbbbbbb`b\_baaababaaMaaaab`  
@HWI-EAS443:3:43:249:1115#0/1  
CCTGATGTGACTTTTTGATTATGGCCATATGGTCCACAG  
+HWI-EAS443:3:43:249:1115#0/1  
abb\_]\_``a`aaaaaba]aaaa\_Z]a`\_N[[LYX¥VQGVX  
@HWI-EAS443:3:43:256:576#0/1  
GTTTCATTACCAACTACGTCCCCTTGCCCAATTAGCAC  
+HWI-EAS443:3:43:256:576#0/1  
a\_aaaaaaaa`a^a\_Xa\_\_^^`\_]^[^\_]`^Y[X]X]  
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GAGGATTTCTCATTTTGGGCAAAGAAGACAAGAGATATGG  
+HWI-EAS443:3:43:259:749#0/1  
aaaa`aaaaaaaa`X\_a`[\_a`a`a\_\_a\_a^`^\_\_  
@HWI-EAS443:3:43:309:339#0/1  
CTTCTTTGCCAAAATGAGAAATCCTCTCAGGACAGCAGA  
+HWI-EAS443:3:43:309:339#0/1  
abbbabbababbababbabb`bba`abaaba¥FYaa`aa\_  
@HWI-EAS443:3:43:331:1117#0/1  
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+HWI-EAS443:3:43:331:1117#0/1  
a\_Zaaaaaa`a`\_a[\_\_a`\_a`a^S¥^`^¥Z[U\_\_a^V  
@HWI-EAS443:3:43:337:1912#0/1  
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+HWI-EAS443:3:43:337:1912#0/1  
RR[S\_`¥\_]¥YS\_VQ\_U¥^Z]Q\_Y`b`VZVWQV`Y`^V[a  
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+HWI-EAS443:3:43:368:931#0/1  
a`aaa`aa`^a`\_a`aaa`aaa`\_`^^`\_a`\_]W  
@HWI-EAS443:3:43:405:503#0/1  
GGGGACGTAGTGTGGTAATGAAACGAAAACGGGACTCTA  
+HWI-EAS443:3:43:405:503#0/1  
\_`bb\_a\_P]`¥a[aa^G¥`a\_aaR][X`\_]`[[PR[WV  
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+HWI-EAS443:3:43:434:1916#0/1  
\_QW\_]WT¥V¥\_¥Y[`XN\_]¥\_¥^`\_]UXI[ZRK¥\_WUL]R  
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+HWI-EAS443:3:43:438:1363#0/1  
aa`X^]`a`\_]\_\_¥¥a\_T¥\_\_\_\_[¥^¥¥\_W¥U\_`[`]\_ZUQ  
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+HWI-EAS443:3:43:43:439#0/1  
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+HWI-EAS443:3:43:441:1382#0/1  
a^aa`aaaa^aaa\_\_]a[a`¥a¥`\_V`\_Y`^¥Z[ZWW  
@HWI-EAS443:3:43:441:658#0/1  
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+HWI-EAS443:3:43:441:658#0/1  
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+HWI-EAS443:3:43:446:1251#0/1  
^\_¥ZS\_]WR]¥YZ]SU`Xa]\_T¥OXWO[Y]ZU\_QTXZ]W  
@HWI-EAS443:3:43:449:1657#0/1  
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+HWI-EAS443:3:43:449:1657#0/1  
^^\_b`aaa`baa\_a`aaaa¥a```[[`\_`^a^ZU]^Z  
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TAAAAGAAGACTGAGAGATCTAATGTCGCAGTCCCGCACTCG  
+HWI-EAS443:3:43:455:1661#0/1  
ab`\_`aab`b``[\_X`a\_aaaaaU\_a¥\_]¥``WU]N[UZS  
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+HWI-EAS443:3:43:457:142#0/1  
aaaaaabaa\_aaa`a`Z`\_a`a```\_`a]\_]\_^```\_¥¥^  
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+HWI-EAS443:3:43:501:557#0/1  
a^ZXLX```aaa`a^][`[a\_]aa`TV`^P^a`a¥[]aa  
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+HWI-EAS443:3:43:546:460#0/1  
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+HWI-EAS443:3:43:566:1578#0/1  
aaaaaaaa`aab`aaaa`a\_¥a\_\_`\_W¥\_\_¥¥\_¥^`^W`  
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+HWI-EAS443:3:43:595:346#0/1  
^S¥ZZ`\_AY]\_^\_aUaba^]X^`a]USTa`^UU]YH\_[S¥  
@HWI-EAS443:3:43:627:1344#0/1  
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+HWI-EAS443:3:43:627:1344#0/1  
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+HWI-EAS443:3:43:639:356#0/1  
`aabaaaabaaaaa`aabaaa`]\_aa^aa\_^^^\_\_V  
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+HWI-EAS443:3:43:655:1534#0/1  
XYbab`WWabbbb\_a\_W[b\_abbba`\_a`aab\_\_[baab`  
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+HWI-EAS443:3:43:66:809#0/1  
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a]aaabaaabab\_aaaaa¥H¥]a`a`aa^a^\_Z^¥[W[]  
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+HWI-EAS443:3:43:686:1456#0/1  
aXH[\_¥Y\_a[ba[]ab\_]Vaaa[VQ`\_NN\_LU^\_[\_a`a`  
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+HWI-EAS443:3:43:691:1562#0/1  
a\_]XUUXa\_Z`¥^aWaZVVO`ZU¥V\_\_TW[P]\_U]VW¥Y¥  
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ab\_ab`baaab\_aaXaab]¥^a\_a`\_a^^\_[\_]\_W\_\_^[Z  
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+HWI-EAS443:3:43:714:712#0/1  
\_abW[bababaa`ab`abaa\_a\_a[DX`ba\_\_\_`aaaa`\_  
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+HWI-EAS443:3:43:721:1060#0/1  
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+HWI-EAS443:3:43:728:1914#0/1  
ababa\_]\_]\_````^\_S^]\_`YKZ]Z^V]UUZVQYT]HZQ  
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`baZaUUUbKZ[aa\_0`¥`\_bbb[bZVvb^ab[````ba``  
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+HWI-EAS443:3:43:742:204#0/1  
a]bbab`a\_baa]aW`a\_aaaaa\_Ya\_Z^`\_\_Y^R\_^ZU  
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+HWI-EAS443:3:43:759:86#0/1  
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+HWI-EAS443:3:43:778:759#0/1  
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+HWI-EAS443:3:43:807:1381#0/1  
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+HWI-EAS443:3:43:823:869#0/1  
aa```Y]`\_a^J[`]¥`\_a`\_\_a\_\_\_\_]\_]\_\_^`\_^\_  
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T\_aXXaTabbaU[K`R[\_[Z\_ba[`U\_^a`RHN¥aY]Z^Z  
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+HWI-EAS443:3:43:868:687#0/1  
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]Z^aaZR]`¥SZ]RL]TZLY]]X\_[]Y^Z¥¥[PFMYU  
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+HWI-EAS443:3:43:904:1757#0/1  
aYab¥aa¥¥a\_b`a^aaa\_a`\_\_\_\_]aaaa\_a^`T]\_^\_^^  
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+HWI-EAS443:3:43:92:1181#0/1  
```a\_aaaaa\_\_aa`aa^]]W``\_a\_\_\_\_Y¥^\_\_\_\_[\_Y  
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+HWI-EAS443:3:43:937:1101#0/1
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+HWI-EAS443:3:43:938:1417#0/1
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+HWI-EAS443:3:43:96:352#0/1
aa`aaabbb__bbba`^aaaaabaaa_]_aaa` `]`aa__
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CGCACTCGCGAGATACTACTAAGACCACTGTGGACCATA
+HWI-EAS443:3:43:973:579#0/1
aa_a`aaaaa`a`a^a]_` `aa`a^__`_aV`_^_]Y[^
@HWI-EAS443:3:43:979:299#0/1
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+HWI-EAS443:3:43:979:299#0/1
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+HWI-EAS443:3:43:998:89#0/1
a`bba`aa_baab`aba_^a`a]` `^a^^^_X__^Z[
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+HWI-EAS443:3:44:1012:1015#0/1
a`aaabb` `b` `a`¥_]`aaa__a^aa` `¥_[__` `¥¥
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+HWI-EAS443:3:44:1023:686#0/1
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+HWI-EAS443:3:44:1024:1398#0/1
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+HWI-EAS443:3:44:1029:942#0/1
aabbb`b^^^]`baa_]_]`a_^`aaaaaa_aYX]`aN^
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+HWI-EAS443:3:44:1052:622#0/1
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+HWI-EAS443:3:44:115:1391#0/1
a_aRRU^` `[X`YSa_aSHNZ`PYXQ^`X_NNY`P^VQVQ
@HWI-EAS443:3:44:1164:251#0/1
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+HWI-EAS443:3:44:1164:251#0/1
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@HWI-EAS443:3:44:1176:47#0/1
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+HWI-EAS443:3:44:1176:47#0/1
a`_`__`a` `^`^`a^__^_]`^_XXZ^`_^_XZ^T]ZZZ
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+HWI-EAS443:3:44:1190:947#0/1
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+HWI-EAS443:3:44:119:565#0/1
¥¥QX[`a¥ZR^bbbaabbbb_a`b][`aa`^``]Z][H
@HWI-EAS443:3:44:120:1316#0/1
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+HWI-EAS443:3:44:120:1316#0/1
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+HWI-EAS443:3:44:1236:236#0/1
[_bb]_X`_]`abbb]a]Wb[_bab`^`_aaaaaaaa¥^^a
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+HWI-EAS443:3:44:1236:823#0/1
a`b^ab`^`a^]_`a]`aa¥`_^]Waa__^`¥V[_[¥¥Y
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+HWI-EAS443:3:44:1237:1587#0/1
_N__[_`_]`[aVa^a_N`aaXPRWPZ¥__UZZRPU]VYYG
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+HWI-EAS443:3:44:1253:400#0/1
a^a`a`]aaaaaaaa__aaa`[_`_a`_]`_]_Z^^_^^¥S
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`_`_`_`[aaa_a`^`^a`^`^]]Y]__`_]_WXXXYVWWW
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+HWI-EAS443:3:44:1286:505#0/1
T_bbYbbaba^a^`_a_bbbbbbbbbbb`ba`a[[[_aR` [
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+HWI-EAS443:3:44:1342:954#0/1
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+HWI-EAS443:3:44:1354:1032#0/1
ab_bbabaabbbbaa_babaaaa`ba`aa^aa]`¥a`_`_`
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+HWI-EAS443:3:44:1363:1124#0/1
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a_a_aaaaab`baa`_]_aaa^¥_`Za]a__^^Z^]]^¥¥T
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+HWI-EAS443:3:44:1439:964#0/1
]¥a`^`_`_Z^bbba^¥`aaa_Z_X_¥``_`[_aaa`aa`a
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+HWI-EAS443:3:44:1440:924#0/1
aa`__aa``_]aa`a`UUa_]a_a_aaba_`_`]^ZNXWX
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+HWI-EAS443:3:44:1443:24#0/1
abaa`[b_aa^b_aaaa_`]aa^`¥__`^^V[a]_^^_]
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+HWI-EAS443:3:44:1482:966#0/1
`a¥¥Yb^¥¥`a`a``Yb¥bbZ]`a[aa¥aa]]baab`_
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+HWI-EAS443:3:44:1488:1454#0/1
a¥aa¥aa_Z]_`Yaa`Z__`T^¥[_aXRX][^SJVYVTNN
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+HWI-EAS443:3:44:1523:1512#0/1
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@HWI-EAS443:3:44:1534:1657#0/1
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+HWI-EAS443:3:44:1534:1657#0/1
aTa]`[FYaaa_]a^^¥_`_]_]RR]]R^V_Z_]^U]U^
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+HWI-EAS443:3:44:1556:1101#0/1
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+HWI-EAS443:3:44:1570:1780#0/1
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+HWI-EAS443:3:44:1573:1532#0/1
a[aa_aa]`^a_Y[^`aab`XZF^`aYbW`^V```a_aR[
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+HWI-EAS443:3:44:1594:1399#0/1
aaaab`aa^a_aa^_b]___^`a]a^aaXa^)`W_[]^YX
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+HWI-EAS443:3:44:1611:771#0/1
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+HWI-EAS443:3:44:1658:1613#0/1
`¥`^_aaaaa`_]a`Z_[Y^_Va^^`_UPZ^]_WWWV_V
@HWI-EAS443:3:44:1662:1302#0/1
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+HWI-EAS443:3:44:1662:1302#0/1
`bb`bb_a_baa`bVa^Za]`aaa`_`_a_a_]¥_Va`¥__
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+HWI-EAS443:3:44:1662:1743#0/1
a_a`_aaaa^¥aa^`^^`__^`Za`¥``Z¥]¥]¥ZZXXZR
@HWI-EAS443:3:44:167:1486#0/1
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+HWI-EAS443:3:44:167:1486#0/1
^W]Y[]^_aaa`ZSY``_^`_`_`_a`_`R^¥R_YUTN
@HWI-EAS443:3:44:1703:837#0/1
GTGGGTTCACTTTCAAAGGACAAGCGATCATCAGTCAA
+HWI-EAS443:3:44:1703:837#0/1
a_aaa^Z]`_aa`_`__a^^_]`[_`^^W]`X]`XX_
@HWI-EAS443:3:44:1711:1329#0/1
AAAAGAACTGAGAGATCTAATGTCGCAGTCCCGCACTCGC
+HWI-EAS443:3:44:1711:1329#0/1
¥U¥¥aaa¥¥`_a`X¥X`__`_W¥``]ZVTXX¥[[VYPXY
@HWI-EAS443:3:44:171:285#0/1
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+HWI-EAS443:3:44:171:285#0/1
ab[S¥¥^[PZ_aSa_VTa[]M^a_a_HY[`Z¥^_SFHZa^
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+HWI-EAS443:3:44:185:126#0/1
aaaa_a^a`Y`_`__aa]abUVUZUWZU[]YY]XU]XRV
@HWI-EAS443:3:44:197:1009#0/1
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+HWI-EAS443:3:44:197:1009#0/1
a¥Ybaa`Z`_`abab_aaaaa_a]`aaUa[`^¥^aaaa`a
@HWI-EAS443:3:44:214:1329#0/1
AAAAGAACTGAGAGATCTAATGTCGCAGTCCCGCACTCGC
+HWI-EAS443:3:44:214:1329#0/1
a`[a]a`^¥`aaaZaaaaa]aY]_a`]Z``WOY__¥_ZY

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+HWI-EAS443:3:44:228:1580#0/1
¥R¥[WY]TYRQ_RT¥V_X__XFOUVYZ^YTOVR][_]XVJ
@HWI-EAS443:3:44:255:75#0/1
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+HWI-EAS443:3:44:255:75#0/1
a]bbaabaaaYabaaa`_aa_]a__aZa]]a]^Y]aXQQ
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AAAAGAAGTCTAATGTCGCAGTCCCGCACTCGC
+HWI-EAS443:3:44:272:1074#0/1
aaa]`_a_a```a`¥`_a¥S_aY¥¥¥^`Y¥¥WW¥¥W¥Y]Y
@HWI-EAS443:3:44:304:826#0/1
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+HWI-EAS443:3:44:304:826#0/1
a__aaaaabaaa`aaaaaaa`^aaaa__]aa¥^`^____
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GTCCATTATTCTTGTCTGCTGTAATTGGGTATCTCATT
+HWI-EAS443:3:44:324:799#0/1
a`bbababaaaaaa`^`aa_aa]`aaaa`R`a¥]_`^a
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GGCGTACATGCTAGAAAGAGAATTGGTCCGTAACAAGG
+HWI-EAS443:3:44:331:919#0/1
aaa__^^`_a¥`_`__^^¥_¥a^_¥_T¥W_W____`N_¥`¥
@HWI-EAS443:3:44:366:476#0/1
AGTCTGCTGTCTGAGAGGATTTCTCATTTTGGGCAAAGA
+HWI-EAS443:3:44:366:476#0/1
aba`a`aab_ababab`aaXaaa^a`aaaaaa__a``a`
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+HWI-EAS443:3:44:371:1786#0/1
aabababaaaX``_aaa[aa`aa`[`a`aa¥`aa`a_a]`
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ATTCTTGCCCCACTTCATTTGGGAAAACAACTTCCATAA
+HWI-EAS443:3:44:375:1923#0/1
`bbab`bbaabbaba`baa``][`ab_aa]a_^^`_a_
@HWI-EAS443:3:44:391:1169#0/1
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+HWI-EAS443:3:44:391:1169#0/1
aaa`abaaaaaaaab_aaba`aa^a_``^____]_W`]^`^W
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+HWI-EAS443:3:44:402:1575#0/1
a`aZ`^]`^UaZZZ`S____¥aWN¥¥^UJPP[HUFRSWWH
@HWI-EAS443:3:44:411:286#0/1
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^[_T¥]]____^]]_aaRVYZ`¥^a^Z[`P¥_¥^]SZTQOY
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a`_Taaaa`ababaY`aa`]a_a`_a_a^`a`a__`_aa
@HWI-EAS443:3:44:477:985#0/1
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+HWI-EAS443:3:44:477:985#0/1
aa`_]aba¥Y`a`_aa]aa`]aa^a]¥`a`]a_a__a``a
@HWI-EAS443:3:44:487:525#0/1
CATCTGGGGTGGAGTCTGCTGTCCTGAGAGATTCTCAT
+HWI-EAS443:3:44:487:525#0/1
a`aaa`baaYa__aa_a_aab_^_aa`a^ba_``a__]^_
@HWI-EAS443:3:44:525:563#0/1
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+HWI-EAS443:3:44:525:563#0/1
a`_`_a^_a``b¥a___aaa`_^]¥___a`^^Z]_Z^_Y
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+HWI-EAS443:3:44:531:1073#0/1
aaaaaaab`babaaba``aaaa`_aa_ab¥___`[^X]
@HWI-EAS443:3:44:544:1418#0/1
CAATCCCCAGTTCTGGAAAAGCACTTTTGCATCTTTTTG
+HWI-EAS443:3:44:544:1418#0/1
Y¥`_`a_b_bbbababbaaba^¥W`_ababa^aaabbbbab
@HWI-EAS443:3:44:588:615#0/1
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+HWI-EAS443:3:44:588:615#0/1
VZ[¥a``¥[aZa^a_ZZ_a]a___X_a^Z^__[W^^__¥W
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+HWI-EAS443:3:44:611:1329#0/1
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@HWI-EAS443:3:44:643:945#0/1
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+HWI-EAS443:3:44:643:945#0/1
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+HWI-EAS443:3:44:64:312#0/1
`YS¥Q]aYWa`X¥^]Y]^`¥JR_`]`W[^ZVYGW^[`_]_
@HWI-EAS443:3:44:680:131#0/1
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+HWI-EAS443:3:44:680:131#0/1
a`_aaRa__a[aaaYaaa__]___a_^¥`_^_X^]__UW
@HWI-EAS443:3:44:680:1481#0/1
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+HWI-EAS443:3:44:680:1481#0/1
a^`aa`bbbabbb_b_ababbaba¥__`baa`bb`baaaU
@HWI-EAS443:3:44:684:1086#0/1
GCACTCGCGAGATACTCACTAAGACCACTGTGGACCATAT
+HWI-EAS443:3:44:684:1086#0/1
a_[]baaaba_[^a¥a__aaaa`¥W]`a`^a]`__[^``

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+HWI-EAS443:3:44:686:328#0/1
abbaaa`aa`aaa`^`_`a`_aU`_`a]a`^]`_`^
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+HWI-EAS443:3:44:68:218#0/1
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+HWI-EAS443:3:44:697:1674#0/1
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@HWI-EAS443:3:44:718:928#0/1
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+HWI-EAS443:3:44:718:928#0/1
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+HWI-EAS443:3:44:720:697#0/1
a_a`aaaa`a]a`_a_a_aa`^`___aa`_]`^]`^^`_`Z
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+HWI-EAS443:3:44:765:1416#0/1
a`_aaa`ba]a`ab`a]__a`a``YI[_U`_R]`a]]]Y
@HWI-EAS443:3:44:781:989#0/1
GCCCTGTCCACTTCAGAAATCAAGTTAAAATAAGGAGGAG
+HWI-EAS443:3:44:781:989#0/1
aaaa]X^a_XU`_]_¥QU[QZRWUa¥YNT^][PR^^`aYV[
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+HWI-EAS443:3:44:796:1107#0/1
aa`a`^a_a^aa`^`_`a`RX`]`X^U]UXYUY]]XY
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+HWI-EAS443:3:44:799:382#0/1
abaaabaa]aaba[``^`aa`_a¥_aU_Y¥[SS`¥[_U
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+HWI-EAS443:3:44:829:1486#0/1
aababbb`b`baaaaaaaaaaaaaaaaaYa[`a`^^``___[
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CCTTGATCATGCAATCCTCTTGTGAGAATACCATGGCCAC
+HWI-EAS443:3:44:859:213#0/1
aaabbaaaaaaaaa`a`_aaaaa^a_a`_a`]]`[¥¥ZY_Y
@HWI-EAS443:3:44:890:913#0/1
GTCGCAGTCCCGCACTCGCGAGATACTACTAAGACCACT
+HWI-EAS443:3:44:890:913#0/1
ZORXRZ]V_a_W`HZUSW¥TZZ¥`_S[_QW[XX¥¥`¥SVT
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+HWI-EAS443:3:44:906:1155#0/1
a^[^]Z`bbaTaaV^_a_aab_[____aU[_]_ZW¥a^]]_
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+HWI-EAS443:3:44:906:1834#0/1
a)`a_aaaaaaaaa_``_SMP`^_XX^_Z_]X^_UKKK
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+HWI-EAS443:3:44:914:1960#0/1
`b`Y`]baaZU`Z[a]`RV[]aU]^Xaa_a][¥¥H`[^a_
@HWI-EAS443:3:44:967:1190#0/1
TGGTGGCGTACATGCTAGAAAGAGAATTGGTCCGTA AAC
+HWI-EAS443:3:44:967:1190#0/1
a]bWaa``_a_a`a¥a_a_^_a¥`Y``a^_Y¥Y_¥_¥_`N
@HWI-EAS443:3:44:984:1988#0/1
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+HWI-EAS443:3:44:984:1988#0/1
ababaababbbabbbbababbbb_abb`babaa_b^a
@HWI-EAS443:3:44:992:1105#0/1
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+HWI-EAS443:3:44:992:1105#0/1
[UXWaa```W`a`_aaaa¥¥]`a]Q`____[NX_PSVV
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+HWI-EAS443:3:44:995:1669#0/1
ab`¥aaa_abab^]Wbaab¥aa_a_a`aaU][a^a_]__
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+HWI-EAS443:3:45:1044:959#0/1
^RUaYY¥UO_MRUOP¥U[MS^[HSZWSY¥VKNWXBBBBBB
@HWI-EAS443:3:45:1047:374#0/1
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+HWI-EAS443:3:45:1047:374#0/1
TXXX`U_V^[YPYVPQVQPQZFVXXJX¥KT¥ZYBBBBBB
@HWI-EAS443:3:45:1056:270#0/1
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+HWI-EAS443:3:45:1056:270#0/1
`Q¥P^RQXT[_]X¥^QU]]_^_WV]NYTPV[¥_ZRNOSXV
@HWI-EAS443:3:45:106:1680#0/1
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+HWI-EAS443:3:45:106:1680#0/1
ab```Ya`abb]bZb`RV[a^a_[_a`aab]b`U^`P`bb
@HWI-EAS443:3:45:1118:1866#0/1
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+HWI-EAS443:3:45:1118:1866#0/1
a`b^b``WW]RK]a`baa_a^_b¥XZWa[_Q]Y`a_aXWY
@HWI-EAS443:3:45:1128:714#0/1
CTCGGTCTGATCCAGCATCGTTTTGTTTGTCTCCAGGGT
+HWI-EAS443:3:45:1128:714#0/1
a_bb][abba`aa`aa`aa[aaa__aa_a`a[¥a¥_aaS

@HWI-EAS443:3:45:1146:528#0/1
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+HWI-EAS443:3:45:1146:528#0/1
aab`aaa_a_ba`aabaaaaaa¥^a`X^`__aa`^_aa
@HWI-EAS443:3:45:1155:874#0/1
AGGGGACGTAGTGTGGTAATGAAACGAAAACGGGACTCT
+HWI-EAS443:3:45:1155:874#0/1
aababa_bYT_ababaaQ^¥`[`a`U__`_`Qa_`[[¥]_
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+HWI-EAS443:3:45:1158:1510#0/1
a]Vaaaa_baabaa`a]a^Z`a^aa_^a]]^a`_Y^_V_^
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+HWI-EAS443:3:45:1242:74#0/1
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+HWI-EAS443:3:45:1277:380#0/1
ab_b`abbab`bbba`aabaaY_a_ba`b^aaab`b^`a
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+HWI-EAS443:3:45:1297:613#0/1
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+HWI-EAS443:3:45:1324:370#0/1
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+HWI-EAS443:3:45:1339:717#0/1
[P`aa_`aaa¥]_X0^[^`W_Z__`^]X`]^Y^X_]`GZZ
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+HWI-EAS443:3:45:1362:823#0/1
abab_`a`b`_`aX_a_^aa]_a^aa`__`T____^__X[
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+HWI-EAS443:3:45:1381:339#0/1
`X0_^a__b`__^baaZaX[[ab_YX__Z_^abaa^aa^¥
@HWI-EAS443:3:45:1399:1130#0/1
GTCCCCTTTTCTTTTATTACCAACTACGTCCCCTTGCC
+HWI-EAS443:3:45:1399:1130#0/1
aS¥^`]U``[Z_`[_^_a[_^U__Z_V[ZR^Y]VUV^Y_U
@HWI-EAS443:3:45:13:492#0/1
CATTATTCTCTGTCTGCTGTAATTGGGTATCTCATTGCC
+HWI-EAS443:3:45:13:492#0/1
¥_¥¥`bbba`__Z¥X^`¥`_[Z^a]ZX_Z_W[U``aZXY^
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GAGAATAAAGAAGTCTAATGTCGCAGTCCCGC

+HWI-EAS443:3:45:1484:1499#0/1
aaa`aaaa`aa`a^aaaaa`_^a`_a^_]`_`YX^]]
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GTACTTTTTGATTATGGCCATATGGTCCACAGTGGTCTTA
+HWI-EAS443:3:45:1492:1155#0/1
``^`aaaaa`_____``^X`XTW[TVWYVNNNJRYGVVWS
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+HWI-EAS443:3:45:1504:1047#0/1
a[``[`¥`R^Sa_P]aW`a[[Wa__YSY^`^Ya_]a]]_`
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ATGGCAATGAGATACCCAATTACAGCAGACAAGAGAATAA
+HWI-EAS443:3:45:153:1325#0/1
T[]N^¥b¥X^a¥`Z[Yb¥SZW^_Y`^aUa_P¥`¥^ab]Z]
@HWI-EAS443:3:45:1546:1770#0/1
ATGCAAGGCAGCAATAGGGTTGAGGATTAGCTCATCTTTC
+HWI-EAS443:3:45:1546:1770#0/1
aab`aab_aa¥`_``aaaN_Y_a_^`_`_`_`W_`_`]
@HWI-EAS443:3:45:1567:625#0/1
AAAGAAGTCTAATGTTCGAGTCCCGCACTCGCG
+HWI-EAS443:3:45:1567:625#0/1
__b]]`ab_aa`ba`aaa_bSZa^^`SY[^^]`_^Z^Y¥
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+HWI-EAS443:3:45:1640:656#0/1
abaa_a^^^`]Vaa¥TZ[`¥a[aa]NY¥a`_`aZ_ZV[_Z
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+HWI-EAS443:3:45:165:179#0/1
^bbaHXbb`aVPaa]a`Z[]P[aX`aRb`bb^PVa^`]
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+HWI-EAS443:3:45:1667:765#0/1
`aaa`ab]aaa`aaaa`a`_aa__`__¥_]a__^]U[]^
@HWI-EAS443:3:45:1679:1466#0/1
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+HWI-EAS443:3:45:1679:1466#0/1
a__bba`aab[bb`aaaab_a`_a[Ya__`__¥a^Q^S^N
@HWI-EAS443:3:45:1688:445#0/1
AGAAGTCTAACGGCAACCTCCAAACTGAAAATAAGA
+HWI-EAS443:3:45:1688:445#0/1
aba_b¥baa`] ^aaa`_`_`_a_____^¥__aa^`_^`_`_a^
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+HWI-EAS443:3:45:1711:1597#0/1
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@HWI-EAS443:3:45:172:341#0/1
TCCCGTTTTCGTTTCATTACCAACTACGTCCCCTTGCC
+HWI-EAS443:3:45:172:341#0/1
a`aab_abbbb_ab_a`baaa`a_a`aaaa]`_____^`_^`

@HWI-EAS443:3:45:1788:1148#0/1
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+HWI-EAS443:3:45:1788:1148#0/1
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@HWI-EAS443:3:45:179:1308#0/1
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+HWI-EAS443:3:45:179:1308#0/1
abaaa_aa`a_aaa`aa`aa`_`M`^`aa`_a_aaa`a[
@HWI-EAS443:3:45:199:1390#0/1
AGCAGACCCATTAGCATCTCTTTGGAAATGTGCCACAGC
+HWI-EAS443:3:45:199:1390#0/1
aba^aaaa]a_N[`[a_[bab_aaa`baa`^ab^_Saaa
@HWI-EAS443:3:45:211:580#0/1
GGACAAACCCTCTGGAGCAAACAAACGATGCTGGATCAG
+HWI-EAS443:3:45:211:580#0/1
aabaaaaaaaaaaaa_aa_aa``aaaa_a__a_aa]^¥Ua_
@HWI-EAS443:3:45:282:819#0/1
AACATCATCATTTCTCACTTCTCCTCCTGGAGTGTACATC
+HWI-EAS443:3:45:282:819#0/1
a`aaaYaa`aaaa[__a]_a^`a`a`__`a¥YUa¥_^^_Y
@HWI-EAS443:3:45:302:90#0/1
ATTTTCCTCATTGACTGTGAATGTGAGAGGATCAGGGTTG
+HWI-EAS443:3:45:302:90#0/1
aabaa`b_a^a`^V^a]YSZU`a]YD00b[kVW]Z``U]Y
@HWI-EAS443:3:45:385:867#0/1
GCTGGATCAGACCGAGTGATGGTATCACCTCTGGCCGTAA
+HWI-EAS443:3:45:385:867#0/1
a`Z__V_Za_YZ]R]_K^X`]a¥]YQTMOWT[X`¥[¥RXV
@HWI-EAS443:3:45:397:548#0/1
CTGCTGTCCTGAGAGGATTTCTCATTTTGGGCAAAGAAGA
+HWI-EAS443:3:45:397:548#0/1
UWbab_a^^b]_[_¥_````[^b`bab¥`¥YU]ba¥aaV¥
@HWI-EAS443:3:45:408:1269#0/1
GAGGATTAGCTCATCTTTCAGTTTTGGTGGGTTCACTTTC
+HWI-EAS443:3:45:408:1269#0/1
a`bb```YabYYZ¥a`¥a^X]Z``VV¥R_b[HZZPSR`PJ
@HWI-EAS443:3:45:418:903#0/1
AAAGAAGTCTGAGAGATCTAATGTGCGAGTCCCGCACTCGCG
+HWI-EAS443:3:45:418:903#0/1
Y`_YU[L_V¥__`SY`aa[`ba^TUa¥N`a_ab]`R]`H`
@HWI-EAS443:3:45:439:501#0/1
AAAGAAGTCTGAGAGATCTAATGTGCGAGTCCCGCACTCGCG
+HWI-EAS443:3:45:439:501#0/1
a`_`aa`aaaaWa_aaa`aa`_[a`a`UTZ¥QaY[¥_¥¥`
@HWI-EAS443:3:45:441:204#0/1
GTCCCCTTTTTCGTTTCATTACCAACTACGTCCTTGC
+HWI-EAS443:3:45:441:204#0/1
aabaabaabbabaaa`aaabaaa`_a_a```^Z^]`¥XS
@HWI-EAS443:3:45:445:1922#0/1
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+HWI-EAS443:3:45:445:1922#0/1
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@HWI-EAS443:3:45:475:1757#0/1
GATCTAATGTGCGAGTCCCGCACTCGCGAGATACTCACTA
+HWI-EAS443:3:45:475:1757#0/1
abbabbbb_Z]Za]``_`^aaa^aUa_a_`Z`XaQa`
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CATCACTCGGTCTGATCCAGCATCGTTTGTGTTTGTCTCCAG
+HWI-EAS443:3:45:510:1117#0/1
a`b`aa`_a`]a_]_____a[_a_a^_aa^^``[^]^YY¥
@HWI-EAS443:3:45:515:695#0/1
CCGTTTTCGTTTCATTACCAACTACGTCCCCTTGCCCA
+HWI-EAS443:3:45:515:695#0/1
a`_Q¥[[_a`¥`a`_a`^aa_YXZY^S]P`_[PSRL]Z
@HWI-EAS443:3:45:524:303#0/1
AAAGAAGTCTAATGTGCGAGTCCCGCACTCGCG
+HWI-EAS443:3:45:524:303#0/1
_[aa]a`bbbbbaabaaba^aa^aaZ]`aa[[`^^`a`
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+HWI-EAS443:3:45:563:936#0/1
aXUXZZ^N`_¥[W¥¥¥^WWY_NN¥UWWWQXZUUSWUV
@HWI-EAS443:3:45:608:1098#0/1
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+HWI-EAS443:3:45:608:1098#0/1
abbb`_`bbbb`baaababb_aaaab^_____]`^Z^
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AGAGAATAAAAGAAGTCTAATGTGCGAGTCCCG
+HWI-EAS443:3:45:60:1200#0/1
`aab^ababa__`a`aa`Z`baa^`aabb`aa¥aaZ]^_S
@HWI-EAS443:3:45:675:242#0/1
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+HWI-EAS443:3:45:675:242#0/1
_]`Z`]_bb_] [a``b^`WSR_a_RaaVa^[a^`¥]`a]
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+HWI-EAS443:3:45:675:74#0/1
a`ba_``_a_]¥^`W`a`X[_^`^_¥^Z__Z]YXT¥^¥U
@HWI-EAS443:3:45:677:1448#0/1
CGTTTTCGTTTCATTACCAACTACGTCCCCTTGCCCAA
+HWI-EAS443:3:45:677:1448#0/1
aabbaaba_b_bbabbMbbGbbbb`bb_aa`ba`_a`
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+HWI-EAS443:3:45:689:886#0/1
]aaa_¥¥Y¥[a]__aU`a__a^_aa]Za_S_]_a¥aa_
@HWI-EAS443:3:45:693:515#0/1
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+HWI-EAS443:3:45:693:515#0/1
a_a`¥`_UbQaXa`ZaXX¥_aaabUZRaZW``]`aa¥XaX

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+HWI-EAS443:3:45:695:541#0/1
`bab`a`abbbbabaabaab¥]a`b^[_a_a`a_a`a
@HWI-EAS443:3:45:698:892#0/1
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+HWI-EAS443:3:45:698:892#0/1
aZbabbbaaaba_`aaa_a]`[_`___aa`a]a`_aY`R[
@HWI-EAS443:3:45:734:1244#0/1
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+HWI-EAS443:3:45:734:1244#0/1
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@HWI-EAS443:3:45:747:861#0/1
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+HWI-EAS443:3:45:747:861#0/1
a]a`aZ`Z^)``a^^[_`_`^`^`^¥^a^]_Y]_]_YY_]`
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+HWI-EAS443:3:45:799:484#0/1
ab_bbbaab`abbaaabbbaaaa`¥`a`bb`bb`baaba_
@HWI-EAS443:3:45:813:366#0/1
GGGACGTAGTGTGGTAATGAAACGAAACGGGACTCTA
+HWI-EAS443:3:45:813:366#0/1
aaaa__b__b_a_aaaVY__a^`^L^)``_P¥^`XKX[[Z
@HWI-EAS443:3:45:827:910#0/1
CAGCACACAGATTGGAGGAGTAAGGATGGTGGACATCCTT
+HWI-EAS443:3:45:827:910#0/1
abbaabbabbaaaaa^a`_]`aaa``^aa_a`^X^^¥a``
@HWI-EAS443:3:45:864:1725#0/1
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+HWI-EAS443:3:45:864:1725#0/1
a`aa_aaaa`aa^`````^`_]_^[_a]RY]_V_¥YY¥Y
@HWI-EAS443:3:45:865:604#0/1
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+HWI-EAS443:3:45:865:604#0/1
aba¥_]aUS_XIZbababa`]b_aaaaTT[]a_`__^_X
@HWI-EAS443:3:45:875:322#0/1
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+HWI-EAS443:3:45:875:322#0/1
aabbbbb^bbabb_aabbaba_ba`b^aaa````aa_a`a_
@HWI-EAS443:3:45:887:547#0/1
GTCCCCTTTTCGTTTCATTACCAACTACGTCCCCTTGC
+HWI-EAS443:3:45:887:547#0/1
a_]WQ_JYTVHU¥ZVJVXWWLU][KZ[V[^NTRXNUWYV
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GCTCCCTTGATGGTGGCGTACATGCTAGAAAGAGAATTGG
+HWI-EAS443:3:45:917:615#0/1
a`]Y^_aaaa¥]aZ^a`^VSZ^_a^`_a¥R[`]`^`ZT]_
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+HWI-EAS443:3:45:918:1393#0/1
a`aa_Ya_]_a^a_aXaMS_[¥^`YJVZ^^YFQV[QUUUWV
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+HWI-EAS443:3:45:982:1859#0/1
a`^¥_a^aa``X`^`a`aaZ___a[_Z¥^_^Z[¥ZZW_
@HWI-EAS443:3:45:993:384#0/1
GAGAATAAAAGAACTGAGAGATCTAATGTCGAGTCCCGC
+HWI-EAS443:3:45:993:384#0/1
a`^`aba`a_]a_babab``]^a`aa^`_Ua]YZ¥_`^
@HWI-EAS443:3:46:1029:1036#0/1
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+HWI-EAS443:3:46:1029:1036#0/1
ababaaa`baaaa^aaaa_a``a`a`a`_¥__a``^__
@HWI-EAS443:3:46:1030:1031#0/1
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+HWI-EAS443:3:46:1030:1031#0/1
aZZW_a[_``_V`__^`^_]ZVR^X^]]Y]Y]]VMPU
@HWI-EAS443:3:46:1033:763#0/1
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+HWI-EAS443:3:46:1033:763#0/1
abba`aabbbaba`bbbbaaaa`aaaba``_``__a_`^`
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+HWI-EAS443:3:46:1039:1502#0/1
aabb_baaaababbbbaa`babab]baaaaaba^aaaaaa
@HWI-EAS443:3:46:104:1338#0/1
CTGCTGTCCTGAGAGGATTTCTCATTGTTGGCAAAGAAGA
+HWI-EAS443:3:46:104:1338#0/1
`_¥Z_aZ`a¥`_`^_a`^a_a`ab``¥X¥[``a`¥Y^W]
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TCCCGTTTTCGTTTCATTACCAACTACGTCCCCTTGCC
+HWI-EAS443:3:46:109:970#0/1
ab`bb__baab_aaaabaaa]a_aaaaa_a^__^__[_]
@HWI-EAS443:3:46:1116:1886#0/1
CTGCTGTCCTGAGAGGATTTCTCATTGTTGGCAAAGAAGA
+HWI-EAS443:3:46:1116:1886#0/1
`aaaaa^_aaa`aa`aa`aa^a^`aaaaa]_^````_^_
@HWI-EAS443:3:46:1130:112#0/1
GATACCATCACTCGGTCTGATCCAGCATCGTTTGTTCG
+HWI-EAS443:3:46:1130:112#0/1
a`a`_``a`^`^a`][_`^Z[[^ZV_[aV]_`YZY^V
@HWI-EAS443:3:46:1147:612#0/1
CTCACTAAGACCACTGTGGACCATATGGCCATAATCAAAA
+HWI-EAS443:3:46:1147:612#0/1
Y¥¥aXJV_b``XXX]Xab]_YUUAZaNAT_VaLZYF^baa
@HWI-EAS443:3:46:1164:1867#0/1
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+HWI-EAS443:3:46:1164:1867#0/1
aaaaaa]a]a_a]a`aabaa]aa`aa]^`_aZ`V[^VUU]

@HWI-EAS443:3:46:1278:753#0/1
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+HWI-EAS443:3:46:1278:753#0/1
aab_`^aT]_aa`__`_a_a^`]_aV_`[_aaa_^YYa^
@HWI-EAS443:3:46:1299:1464#0/1
TAATGTGCGAGTCCCCTCGACTCGCGAGATACTCACTAAGAC
+HWI-EAS443:3:46:1299:1464#0/1
a_`^^a^a`X_`[V_U[_R]UTY¥YZ^US]^[[TX_U
@HWI-EAS443:3:46:1302:1247#0/1
GAACCCCGCACTCAGAATGAAGTGGATGATGGCAATGAGA
+HWI-EAS443:3:46:1302:1247#0/1
`^_¥]`b`¥]`^¥[`^YZ]]_aP]]U_`YZ[[P¥TU^K¥S
@HWI-EAS443:3:46:1313:51#0/1
CGTACATGCTAGAAAGAGAATTGGTCCGTA AAAACAAGGTT
+HWI-EAS443:3:46:1313:51#0/1
`ba`]babaaaa]__bababaaa`]^_b^^__a_`^`Z_
@HWI-EAS443:3:46:1344:1227#0/1
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+HWI-EAS443:3:46:1344:1227#0/1
a`a_[]`^]_[_]Y_^T_``¥X^Q^W]ZTY¥¥[¥^¥¥YYV
@HWI-EAS443:3:46:1353:392#0/1
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+HWI-EAS443:3:46:1353:392#0/1
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@HWI-EAS443:3:46:1365:1980#0/1
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+HWI-EAS443:3:46:1365:1980#0/1
aabaaPbaaaa`_`aaabV[R¥a_N_^_^W_U_¥W_YYV
@HWI-EAS443:3:46:1384:1932#0/1
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+HWI-EAS443:3:46:1384:1932#0/1
aaaRa[aa_aaa¥]ZX]baaTR]`a`aa[aU__T`S^Z
@HWI-EAS443:3:46:1386:1328#0/1
AAAGAACTGAGAGATCTAATGTGCGAGTCCCCTCGACTCGCG
+HWI-EAS443:3:46:1386:1328#0/1
a`a`^^`bab__aaaaaaaa^____`W^`_¥YLZYW¥V[
@HWI-EAS443:3:46:1394:138#0/1
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+HWI-EAS443:3:46:1394:138#0/1
^a`ZS_a^_X^PGNZaXQZ_a]]QTT]WDPO[ZXTTVTO
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CCCCTTTTCGTTTTATTACCAACTACGTCCCCTTGCCC
+HWI-EAS443:3:46:1402:1903#0/1
aabb_`bbbaa`aaababaaba`aaaa`a_`_`¥`a__]
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GGTGGGTTCACTTTCAAAAAGGACAAGCGGATCATCAGTCA
+HWI-EAS443:3:46:1408:1562#0/1
_Q]XW_Y[L[R^XGZZ_`]Y_] ^NUZ_]UVNQ^]UR[
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+HWI-EAS443:3:46:1440:897#0/1
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+HWI-EAS443:3:46:1457:933#0/1
a`U_`bbbaU`abaaa`bab_baaab]]`a`b_a^[]_NU
@HWI-EAS443:3:46:1463:1557#0/1
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+HWI-EAS443:3:46:1463:1557#0/1
a_aaaa^_a_¥Z¥[^_aa]`XZa`][^¥Z¥_] [R[VVT
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GTCGCTGAGAGGATAAGAGTCAGCAAAATGGGAGTAGAT
+HWI-EAS443:3:46:1466:421#0/1
a`aaaab_a_baa¥`__a_aW_`a_____`^^`_¥aW^[[^
@HWI-EAS443:3:46:1492:1324#0/1
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+HWI-EAS443:3:46:1492:1324#0/1
aa[a^a[_a`_^_V_]a`__`a__]`_]a_]^_^^X]Y
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+HWI-EAS443:3:46:1498:470#0/1
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+HWI-EAS443:3:46:1516:1557#0/1
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+HWI-EAS443:3:46:151:1014#0/1
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+HWI-EAS443:3:46:1524:1374#0/1
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+HWI-EAS443:3:46:1559:1040#0/1
^`aS_b]_^`Y`V]a_T]]`aYb^YaaY]a_[ZXLQXZ_
@HWI-EAS443:3:46:1566:1322#0/1
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+HWI-EAS443:3:46:1566:1322#0/1
a`a``bX¥bbaa_`_`][`_`_aaab^`Z]TS`^[`Y[^`Z
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+HWI-EAS443:3:46:1566:1416#0/1
aa_`YUVXF]aaa`_a_a`a`_`¥VY_a_`T[X__W¥^X^
@HWI-EAS443:3:46:1571:308#0/1
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+HWI-EAS443:3:46:1571:308#0/1
ab`ab`bba_XX][¥`_aa^^_[YSP__aZUZUXW^¥¥_W

@HWI-EAS443:3:46:1574:891#0/1
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+HWI-EAS443:3:46:1574:891#0/1
`bbbb_b`b^a`aa`a`_`aaaaa^a__V]aa^aYX`_Y
@HWI-EAS443:3:46:1592:417#0/1
AGAAACCTTGTTTTACGGACCAATTCTTTCTAGCATGT
+HWI-EAS443:3:46:1592:417#0/1
XbaS¥_X`a]HY]¥[Ja`¥[aaU^a`^`^`a`_`a_a_aY`¥
@HWI-EAS443:3:46:1599:1279#0/1
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+HWI-EAS443:3:46:1599:1279#0/1
ab`b^]aaaa`_aa``aaaaa_`a^a`V^^ZU^[Z^¥¥WZ
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+HWI-EAS443:3:46:164:331#0/1
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@HWI-EAS443:3:46:1670:1718#0/1
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+HWI-EAS443:3:46:1670:1718#0/1
]S¥[¥_`_]b_¥^_]¥a[abba^^)`¥X]XXOZ]]YF]V
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+HWI-EAS443:3:46:1677:598#0/1
_]a__baaaa``W_a__aa`Z^`^`^`__[SWYZ[_¥WV
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+HWI-EAS443:3:46:1681:714#0/1
aaaa`aababaaa`aaaa_aa]a^Q_a¥¥¥^`_X¥¥RZ[Y
@HWI-EAS443:3:46:1696:1093#0/1
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+HWI-EAS443:3:46:1696:1093#0/1
`ba_aaaababaa`aaa_a`a`_`^`^`a_]b^```[^^`
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+HWI-EAS443:3:46:1709:804#0/1
abVaZb]¥XJOX^a_b¥V¥TZa_adWEWR_X¥WUMMO_¥Y
@HWI-EAS443:3:46:1725:85#0/1
GTCCCGTTTTCGTTTCATTACCAACACTACGTCCCCTTGCC
+HWI-EAS443:3:46:1725:85#0/1
a`a`_a_aaa^aY_`^^aa_V]_¥R]Y__]]Y]XVYYYYX
@HWI-EAS443:3:46:1737:747#0/1
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+HWI-EAS443:3:46:1737:747#0/1
ab]]a^`aaaaa_aVaaa_aab]`_a_a_W_^^Z_]^[^]_Z
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+HWI-EAS443:3:46:1757:1086#0/1
ab_aaba`aabaab`aaa__a_aaa_a_a_a```_`^W
@HWI-EAS443:3:46:1783:1224#0/1
GTGGAGTCTGCTGCTCCTGAGAGGATTTCTCATTTTGGGCA

+HWI-EAS443:3:46:1783:1224#0/1
a_`XN[Z__^ZT^SU]S¥QVT` `UW[[USWUJW[UWZSPS
@HWI-EAS443:3:46:198:1971#0/1
GGAAAATTGCATCCTACTCTGTTCTGGTGGAGCAGCAGCA
+HWI-EAS443:3:46:198:1971#0/1
KYV_bU¥X`Y¥]]^UaaaWSaXaabb^SX^` `U_HJS0a^
@HWI-EAS443:3:46:218:84#0/1
ATTGCATCCTACTCTGTTCTGGTGGAGCAGCAGCAAAGGG
+HWI-EAS443:3:46:218:84#0/1
^bbaa`b__ba_a_bbaaabbb`ba`a__aZ^a[_¥¥aa`
@HWI-EAS443:3:46:268:1960#0/1
GCATTGACTGAAGATCCAGATGAAGGCACATCTGGGGTGG
+HWI-EAS443:3:46:268:1960#0/1
a`[_¥`_]`aYabVPV^aa]`YZW¥_YW`S`[U`a^` `W__
@HWI-EAS443:3:46:273:453#0/1
GCGAGATACTACTAAGACCACTGTGGACCATATGGCCAT
+HWI-EAS443:3:46:273:453#0/1
aabab`baaaaaaaaaaaaaaaaaab^a]a_`[___a`^^¥]
@HWI-EAS443:3:46:303:606#0/1
AGCAGTGTGAGCAGACCCATTAGCATCTCTCTTGGAAATG
+HWI-EAS443:3:46:303:606#0/1
U_ba_Z`_[b`_¥aWXR^Z]¥WOOXH]aSQX¥]Z_U`J]
@HWI-EAS443:3:46:332:558#0/1
CCGCACTCGCGAGATACTACTAAGACCACTGTGGACCAT
+HWI-EAS443:3:46:332:558#0/1
aaaa[a]aaaaYb[`¥VQa]__QZ^aXSTNN_U_`_^[U_
@HWI-EAS443:3:46:349:1192#0/1
GCAATTTTCCTCATTGACTGTGAATGTGAGAGGATCAGGG
+HWI-EAS443:3:46:349:1192#0/1
ababbaababaaab`ba`b0`__`a]Q^Xaa¥VRW_`a
@HWI-EAS443:3:46:371:1531#0/1
GAACCCCGCACTCAGAATGAAGTGGATGATGGCAATGAGA
+HWI-EAS443:3:46:371:1531#0/1
_bbabbabb`aaa`ababaabG`a^^a` ``^`a_a`aaa
@HWI-EAS443:3:46:371:848#0/1
ATCTGCTCCCAGCACGTCCCTTGGGTAAAGTCAACACTT
+HWI-EAS443:3:46:371:848#0/1
aaab[`^a^aSa_a^`_]a`_`[Z_¥`_^][Q[^a¥¥_ZaY
@HWI-EAS443:3:46:394:1237#0/1
GAATAAAAGAACTGAGAGATCTAATGTCGAGTCCCGCAC
+HWI-EAS443:3:46:394:1237#0/1
aaaZ]a¥ab¥aaba_¥_]Z`W`aa¥¥Q¥^¥[`__][J^XW[
@HWI-EAS443:3:46:414:289#0/1
CTGCTGTAATTGGGTATCTCATTGCCATCATCCACTTCAT
+HWI-EAS443:3:46:414:289#0/1
S[`bbbbbaaba`WUI_¥T[_]aa¥OW¥a[`[aa¥_Vba^
@HWI-EAS443:3:46:445:862#0/1
CCCGTTTTCGTTTTATTACCAACTACGTCCCTTGCCC
+HWI-EAS443:3:46:445:862#0/1
`__b^`ab`b_`a^aba`a_a`]aYa_^^_UUWVYX¥¥[^

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+HWI-EAS443:3:46:45:557#0/1
`abbab`ba]`a`^`[[`_¥ZY[`YTX^`_¥T¥` `[`a¥RV
@HWI-EAS443:3:46:468:1243#0/1
GTTCACTTTCAAAGGACAAGCGGATCATCAGTCAAGAAA
+HWI-EAS443:3:46:468:1243#0/1
a_a¥]]baba`ZX¥^_]a_[_a__a`adW[[_a_][_--
@HWI-EAS443:3:46:46:680#0/1
TGAAGGCACATCTGGGGTGGAGTCTGCTGTCCTGAGAGGA
+HWI-EAS443:3:46:46:680#0/1
aaaZXW¥Zaa`_a_Y¥VU`a^]NW_`SPQPFQU^UaT_XW
@HWI-EAS443:3:46:484:1525#0/1
TTGGATTCTGTCTAAGGATGTCCACCATCCTTACTCCTCC
+HWI-EAS443:3:46:484:1525#0/1
`ba]]ab`bb¥`__Z[¥TZW]_a_[`aWY¥]^¥a`[_^W
@HWI-EAS443:3:46:497:1340#0/1
GTCCCGTTTTCGTTTCATTACCAACTACGTCCCTTGC
+HWI-EAS443:3:46:497:1340#0/1
aaa^aba_a`^a^aa_abaa[S`]_a`aaa[V[___][U_]`
@HWI-EAS443:3:46:530:897#0/1
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+HWI-EAS443:3:46:530:897#0/1
^_aa`aa]^]_`^`[U¥__WW`Za`^YaVY]^RVQQR¥
@HWI-EAS443:3:46:550:1059#0/1
GAATAAAAGAACTGAGAGATCTAATGTTCGAGTCCCGCAC
+HWI-EAS443:3:46:550:1059#0/1
a_ab]Ua]a][Va`¥¥`aZa_ba__b¥a¥`U_YP[a_¥N¥
@HWI-EAS443:3:46:555:966#0/1
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+HWI-EAS443:3:46:555:966#0/1
^aa_^b_b_ba`V^¥`abba¥]]`a`aabLaa[aa`aaa_
@HWI-EAS443:3:46:557:119#0/1
GATACTACTAAGACCACTGTGGACCATATGGCCATAATC
+HWI-EAS443:3:46:557:119#0/1
a]a_]_`_]a`_^]`^]_^]__^]`[]^Z]^YXXYXXYY
@HWI-EAS443:3:46:563:765#0/1
AAGTGGATGATGGCAATGAGATACCCAATTACAGCAGACA
+HWI-EAS443:3:46:563:765#0/1
a^`¥aaaa`X¥YGV]Z^`aa__aaI`__[_T`U_YU^UVZ
@HWI-EAS443:3:46:563:996#0/1
ATGGCCATATGGTCCACAGTGGTCTTAGTGAGTATCTCGC
+HWI-EAS443:3:46:563:996#0/1
aa_a`_`RVUF¥Y[a__`[T]`S_¥_Z^U_[_UUPWVRUM
@HWI-EAS443:3:46:57:64#0/1
AAAGAAGTGGAGATCTAATGTTCGAGTCCCGCACTCGCG
+HWI-EAS443:3:46:57:64#0/1
WS`ZUU_]bUFV`aXR[a]Zaa`aa_TN]¥`T_P[L[BBB
@HWI-EAS443:3:46:597:294#0/1
GGGCAGTATTCCGATCATTCCCATCACATTGTCGATGGAT

+HWI-EAS443:3:46:597:294#0/1
abaaba` `aaaaa^aaba` `]_`]____aaa^¥` ^]a`]^
@HWI-EAS443:3:46:613:1520#0/1
CGCGAGATACTCACTAAGACCACTGTGGACCATATGGCCA
+HWI-EAS443:3:46:613:1520#0/1
aaaabbbababUaaabbbbaabbaabISaSa_` bbaa[0` `
@HWI-EAS443:3:46:639:1018#0/1
GTCCCGTTTTTCGTTTCATTACCAACTACGTCCCCTTGC
+HWI-EAS443:3:46:639:1018#0/1
aa` _a` ^aba` a_aa` abaa__aa` a]_`]Y]^`]¥_¥WV
@HWI-EAS443:3:46:666:791#0/1
GTCCCGTTTTTCGTTTCATTACCAACTACGTCCCCTTGC
+HWI-EAS443:3:46:666:791#0/1
aWX¥` aRY¥\$^SZZWU¥]]SJOUGOWM^]¥PRZNRUN]Y
@HWI-EAS443:3:46:717:1013#0/1
TCCCGTTTTTCGTTTCATTACCAACTACGTCCCCTTGCC
+HWI-EAS443:3:46:717:1013#0/1
aaaaa_abaab]` a` aa` a` `a` _a` `` `a]¥[^_ZZ[¥W
@HWI-EAS443:3:46:71:611#0/1
CCCCGCACTCAGAATGAAGTGGATGATGGCAATGAGATAC
+HWI-EAS443:3:46:71:611#0/1
V¥` ^bbbbb^¥K` ^^_ZYb[[` [abY` ab__^_aa^S[]]
@HWI-EAS443:3:46:835:983#0/1
GGATTTCTCATTTTGGGCAAAGAAGACAAGAGATATGGCC
+HWI-EAS443:3:46:835:983#0/1
a]V` aaaa` aaaaaa____` a` _]_a____Wa¥a^` _^^Z^_
@HWI-EAS443:3:46:840:38#0/1
GAATAAAAGAAGACTGAGAGATCTAATGTCGCAGTCCCGCAC
+HWI-EAS443:3:46:840:38#0/1
a^` a` YZaa_` ^` ` _a^a]^` _]` `aYYUVY_VZYV]TGT
@HWI-EAS443:3:46:859:749#0/1
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+HWI-EAS443:3:46:859:749#0/1
` ^aW^b[` bbaaaba^^a^b_ab]Z^Waaaa[VRR]a[[Y
@HWI-EAS443:3:46:861:121#0/1
ATCTAATGTCGCAGTCCCGCACTCGCGAGATACTCACTAA
+HWI-EAS443:3:46:861:121#0/1
ababaabb_aba^a__` a_aY]` Z` ^` W` VYWT^U[W[¥¥
@HWI-EAS443:3:46:873:1150#0/1
GCGAGATACTCACTAAGACCACTGTGGACCATATGGCCAT
+HWI-EAS443:3:46:873:1150#0/1
a` b¥a]` aab_a` aa__a__aaa` _____]aX` _` _` Z^_
@HWI-EAS443:3:46:884:870#0/1
AGATACTCACTAAGACCACTGTGGACCATATGGCCATAAT
+HWI-EAS443:3:46:884:870#0/1
abbaa^baSab`]a]_` baaa_a__a____^` a` ` [¥[^YJ
@HWI-EAS443:3:46:896:1616#0/1
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+HWI-EAS443:3:46:896:1616#0/1
a_ab`]aa` aaaa` _Y_aaa]aQaa` aa_a[a` aaaa[UM

+HWI-EAS443:3:47:1197:198#0/1
W¥_H_`a`babU`bXV_a¥¥_]ab__aMHN¥aNJLUUP
@HWI-EAS443:3:47:1202:1097#0/1
CTAATGTCGAGTCCCGCACTCGCGAGATACTACTAAGA
+HWI-EAS443:3:47:1202:1097#0/1
abbabbaaaab`aaaa_aaa`X¥aU^¥^_¥]^`^`[PU
@HWI-EAS443:3:47:1230:122#0/1
GTCCCGTTTTTCGTTTCATTACCAACTACTCGCCCTTGC
+HWI-EAS443:3:47:1230:122#0/1
a]aaabY_`_]b¥_[[Wa`_VW¥^]YT__Y[YXPVWTWUU
@HWI-EAS443:3:47:1233:639#0/1
CTTGAGGCATTTCCAAAAGATGCAAAAGTGCTTTTCCAG
+HWI-EAS443:3:47:1233:639#0/1
abbbbbbbbbbaabbbababababab]b`baaaa_aa
@HWI-EAS443:3:47:125:1199#0/1
CAATCCCCAGTTCTGGAAAAGCACTTTTGCATCTTTTGTG
+HWI-EAS443:3:47:125:1199#0/1
aba^]^`[`]¥U_aaXI]^`VYX^`_aaY_]^_Y]¥__Y]
@HWI-EAS443:3:47:1266:1289#0/1
GTCGAGTCCCGCACTCGCGAGATACTACTAAGACCACT
+HWI-EAS443:3:47:1266:1289#0/1
a_a_]^^aa_[^Za`_a^`Ya__ZU^¥[¥W__¥WSWZSZ
@HWI-EAS443:3:47:1313:1064#0/1
GGTGGTTCACTTTCAAAGGACAAGCGGATCATCAGTCA
+HWI-EAS443:3:47:1313:1064#0/1
a_F¥RUUXYOZL¥_¥a^^VXUT_YSYM¥RPVSWZRXLJ¥V
@HWI-EAS443:3:47:1361:1964#0/1
AGTCAATGCACCTGCATCCTTTCCAAGAACTGTAAGTCGT
+HWI-EAS443:3:47:1361:1964#0/1
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@HWI-EAS443:3:47:1387:494#0/1
AAAGAAGTGAAGATCTAATGTCGAGTCCCGCACTCGCG
+HWI-EAS443:3:47:1387:494#0/1
a_T^¥T^aa`a`aa`]^`^`aa[]`_]_XX]Y^_[X_Z¥T]
@HWI-EAS443:3:47:1389:1485#0/1
CCCGCACTCAGAATGAAGTGGATGATGGCAATGAGATACC
+HWI-EAS443:3:47:1389:1485#0/1
¥]^`ZZWZV`_]_Y_Q``]WLa^_]Q]¥`MPV`_`PRXYVPL
@HWI-EAS443:3:47:1417:397#0/1
CAATGAGATACCCAATTACAGCAGACAAGAGAATAATGGA
+HWI-EAS443:3:47:1417:397#0/1
aaaaaababa`^`baaabaaa`aa`_a_aab`aa`_aa`_`
@HWI-EAS443:3:47:1428:1156#0/1
GGGATGTGCTTGGGACATTTGACTGTCCAAATAATAAA
+HWI-EAS443:3:47:1428:1156#0/1
¥b¥a`Z`SW`a`_`_N^`ZY_]`PZ_OMTU[_`X]X_VY
@HWI-EAS443:3:47:1431:390#0/1
AATAAAAGAACTGAGAGATCTAATGTCGAGTCCCGCACT
+HWI-EAS443:3:47:1431:390#0/1
^Waa[[RZFY^abbba`a`W¥`[_^_¥Z_]XWGLS^¥LOU

@HWI-EAS443:3:47:1438:156#0/1
CACTCGCGAGATACTACTAAGACCACTGTGGACCATATG
+HWI-EAS443:3:47:1438:156#0/1
a^baababaa^a_____`^`_`_^[[^Y]T`_][PP^][[
@HWI-EAS443:3:47:1463:1120#0/1
GTGGCGTACATGCTAGAAAGAGAATTGGTCCGTAACAA
+HWI-EAS443:3:47:1463:1120#0/1
`_aaa`Y`Z`a_aV]`_^`¥`¥`_a__`W¥^`_¥^¥[^¥V¥
@HWI-EAS443:3:47:1464:415#0/1
GGGCAACCTCCAAACACTGAAAATAAGAGTACATGAAGGG
+HWI-EAS443:3:47:1464:415#0/1
^b¥ab_X`^¥ba`a`]Zaa__`_a]Z`a]__`a`^a`
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GTGTACTTTTTGATTATGGCCATATGGTCCACAGTGGTCT
+HWI-EAS443:3:47:1473:355#0/1
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@HWI-EAS443:3:47:1525:1038#0/1
GTTCCGCCGGCTACTGGGAGAAACCTTGTTTTACGGACCA
+HWI-EAS443:3:47:1525:1038#0/1
`ababaa`a`_]`VL__[T_¥__Q_UUVYaa[SSYFQRY[
@HWI-EAS443:3:47:1543:64#0/1
ATGGCAATGAGATACCCAATTACAGCAGACAAGAGAATAA
+HWI-EAS443:3:47:1543:64#0/1
ab_aLY¥bbb_aa`ZX¥Z^a`]`bab]Q[]Y__a_W`_Z
@HWI-EAS443:3:47:1580:1863#0/1
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+HWI-EAS443:3:47:1580:1863#0/1
ab`]abbbbbbb`bbbbbbbabbbbbbbab`bbbbbb
@HWI-EAS443:3:47:1592:930#0/1
CTAATGTCGCAGTCCCGCACTCGCGAGATACTACTAAGA
+HWI-EAS443:3:47:1592:930#0/1
_abbaa_ababa^VaZ^aaaSa`]a[a^P^U^]U[S^¥S_
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+HWI-EAS443:3:47:160:904#0/1
aa[Xab`aaaa]`a]`_`_TZ`aa`^X[]VZWa]O¥_
@HWI-EAS443:3:47:1623:1486#0/1
CTCTTATTTTCAGTGTGGAGGTTGCCCGTTAGCACTTC
+HWI-EAS443:3:47:1623:1486#0/1
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@HWI-EAS443:3:47:1647:1056#0/1
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+HWI-EAS443:3:47:1647:1056#0/1
aaaa`aab_aaa¥a`_`Y_a`^`_`^R]X^^]L[^^^^
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+HWI-EAS443:3:47:1678:544#0/1
aaabbbbbbaaa`abbaa_aa]baaa_b`_]a_^aa_ZS
@HWI-EAS443:3:47:1774:592#0/1
GCGGGATGTGCTTGGGACATTTGACACTGTCCAAATAATA

+HWI-EAS443:3:47:1774:592#0/1
a`baa`ab`a_]`aa[_¥^a_a_]_X`a]ZP^Y^^[[Z`
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CCCCACTCAGAATGAAGTGGATGATGGCAATGAGATACC
+HWI-EAS443:3:47:214:701#0/1
`¥Kb`baaaab^bbb`ab[]U`ab_¥_a¥a__[]` `` NU
@HWI-EAS443:3:47:239:329#0/1
ATAAAAGAAGTCTAATGTCGCAGTCCCCGACTC
+HWI-EAS443:3:47:239:329#0/1
`bbaaaaaYbb_aaa``aaaaabZX^_]`^]___Y_¥^U
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ATTACCAACTACGTCCCCTTGCCCAATTAGCACATTAG
+HWI-EAS443:3:47:240:332#0/1
aabaabababb_aa_aYa^]a]`_`a` `__¥R`_a`_
@HWI-EAS443:3:47:258:1576#0/1
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+HWI-EAS443:3:47:258:1576#0/1
`a`RVb¥`ba_`X`VT[aXaaUY`MX^U[YZT[YOFXFRY
@HWI-EAS443:3:47:27:1488#0/1
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+HWI-EAS443:3:47:27:1488#0/1
ababababbaba_`a`a`aaa_` `aaaa`a_aaa`^aa` [
@HWI-EAS443:3:47:319:947#0/1
GTCCCGTTTTTCGTTTCATTACCAACTACGTCCCCTTGC
+HWI-EAS443:3:47:319:947#0/1
aa_W_baaaaZZ^ab_`aa`_` `¥¥a[`a^_Y[[[^[^_Z_W
@HWI-EAS443:3:47:323:1333#0/1
AAAAGAAGTCTAATGTCGCAGTCCCCGACTCGC
+HWI-EAS443:3:47:323:1333#0/1
XX_[][_]bbbba¥_¥WaZa__W_^Z]_YUV]]`ZUY]]F
@HWI-EAS443:3:47:382:479#0/1
CTAATGTCGCAGTCCCCGACTCGCGAGATACTCACTAAGA
+HWI-EAS443:3:47:382:479#0/1
` `bbbba`a`_b`^aaa_]Yaaa^[EVUY[R]]` `^a_]`
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+HWI-EAS443:3:47:394:941#0/1
]bYaSaaabZZaaaabbba` `aa`b¥`a_Ua_a`bG]`aa
@HWI-EAS443:3:47:400:1508#0/1
GTCCCGTTTTTCGTTTCATTACCAACTACGTCCCCTTGC
+HWI-EAS443:3:47:400:1508#0/1
Mab^aaaab]a_`bb` `bab^aa`aaa_`^S¥a` [bVa]b`
@HWI-EAS443:3:47:401:621#0/1
ATAAAAGAAGTCTAATGTCGCAGTCCCCGACTC
+HWI-EAS443:3:47:401:621#0/1
aaa` `a`_a_a`__a___^` `__`_]_]`^`V]^Y]YTX^
@HWI-EAS443:3:47:40:168#0/1
GCGAGATACTACTAAGACCACTGTGGACCATATGGCCAT
+HWI-EAS443:3:47:40:168#0/1
abbbbbbaaba`aa`baa`aaa`a^Y_a_____`¥]^]Y]W

+HWI-EAS443:3:47:686:101#0/1
abbabbb`bbbaa¥bbbaaba`_b_a_baaa`aWabaa
@HWI-EAS443:3:47:71:433#0/1
TGCTAATTGGGCAAGGGACGTAGTGTGGTAATGAAACG
+HWI-EAS443:3:47:71:433#0/1
]b`_^`^aaaba^¥babbUZ`¥¥aYaaa_[DJT]]V`^TY
@HWI-EAS443:3:47:72:1439#0/1
GTCCCGTTTTTCGTTTCATTACCAACTACGTCCCTTGC
+HWI-EAS443:3:47:72:1439#0/1
aa`_]_aS[a__a]^`¥aaY^^¥`_]U_X^VZRZRLSV
@HWI-EAS443:3:47:735:320#0/1
CAGAATGAAGTGGATGATGGCAATGAGATACCCAATTACA
+HWI-EAS443:3:47:735:320#0/1
aabaabb^Z`_bbaabaaaa]aaaaaa`a^¥`a`aaa^a
@HWI-EAS443:3:47:736:586#0/1
GCGAGATACTACTAAGACCACTGTGGACCATATGGCCAT
+HWI-EAS443:3:47:736:586#0/1
abbabbb`_ababaababa^_`aaa`a`_`a]a__aa__`_`
@HWI-EAS443:3:47:753:141#0/1
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+HWI-EAS443:3:47:753:141#0/1
abbbba`b`_ab`_abbb^`_aaaaabR`_`aaN^a`XP]PY
@HWI-EAS443:3:47:758:1055#0/1
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+HWI-EAS443:3:47:758:1055#0/1
_aa`^`ZX_b`ba`aaaa[`V^`^`_bbaa`]P^[X[V^
@HWI-EAS443:3:47:779:193#0/1
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+HWI-EAS443:3:47:779:193#0/1
a_a_abaaa`aaa`X`^`]^`^`_`Z]^`_`X`_`X`
@HWI-EAS443:3:47:77:23#0/1
AGGGGACGTAGTGTGGTAATGAAACGAAAACGGGACTCT
+HWI-EAS443:3:47:77:23#0/1
abbbbaaa¥`b`b¥baaa_a^X]a_N_[a`SV]_X_^R^
@HWI-EAS443:3:47:812:424#0/1
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+HWI-EAS443:3:47:812:424#0/1
abb`babbb`Y`aaa_a_aIaa¥XUa_[`UYaT[aW^V
@HWI-EAS443:3:47:820:851#0/1
GCTGTCCTGAGAGATTTCTCATTGTTGGGCAAAGAAGACA
+HWI-EAS443:3:47:820:851#0/1
aaaa`^a`¥`aab_aaa[[_`aa`a__`^`¥`_`Z¥a_]`^
@HWI-EAS443:3:47:868:442#0/1
CCCGTTTTTCGTTTCATTACCAACTACGTCCCTTGGCC
+HWI-EAS443:3:47:868:442#0/1
aaa`^`abbba_aa^aaab`]_^]a`^`a[^^`^`_]a_UXS
@HWI-EAS443:3:47:876:304#0/1
GTCCCGTTTTTCGTTTCATTACCAACTACGTCCCTTGC
+HWI-EAS443:3:47:876:304#0/1
aaaaab^abaab^aa`abaa__a`^a_a`_]`^`[ZV^][Z

@HWI-EAS443:3:47:885:1267#0/1
CATCATTTCTCACTTCTCCTCCTGGAGTGTACATCTGCTC
+HWI-EAS443:3:47:885:1267#0/1
abbbbbbbbaaaaab_`b`aab_`a_b_a_aa_aa^`^`
@HWI-EAS443:3:47:930:418#0/1
ATCTGGATCTTCAGTCAATGCACCTGCATCCTTTCCAAGA
+HWI-EAS443:3:47:930:418#0/1
aab`ababbbbbbaabbababaaaa`abaaaa`aa````
@HWI-EAS443:3:47:935:326#0/1
GGGAGATCAATGGCCCTGAGTCAGTGCTAGTCAACACTTA
+HWI-EAS443:3:47:935:326#0/1
aa_`a_YY]``^^_Z^Z`_aZV¥XN[SV[^WRV^UVUUXR
@HWI-EAS443:3:47:936:387#0/1
CATATCTCTTGTCTTCTTTGCCAAAATGAGAAATCCTCT
+HWI-EAS443:3:47:936:387#0/1
_`abaSa[aZbb[b_ZWa`aS]`aaabbb`^^a`ZRUaZX
@HWI-EAS443:3:47:949:1275#0/1
AAAGAAGTGAAGATCTAATGTCGCAGTCCCGCACTCGCG
+HWI-EAS443:3:47:949:1275#0/1
aaY][^]a]aaaV`Xb]aaa^[[ZX^__`a`HX[[USY
@HWI-EAS443:3:47:94:228#0/1
GGGCGATCTGAACCTTGTCAATAGGGCAAACAGCGACTG
+HWI-EAS443:3:47:94:228#0/1
aRM¥a`a`[HY`_a_[____][`YP__^P^`W_[X^_
@HWI-EAS443:3:48:101:1384#0/1
GAACTGAGAGATCTAATGTCGCAGTCCCGCACTCGCGAGA
+HWI-EAS443:3:48:101:1384#0/1
aaaa]LXW¥^]bX`]aaXaW`XROY`PT]`aaaZ^`X]¥
@HWI-EAS443:3:48:1027:76#0/1
GGACGTAGTGTGGTAATGAAACGAAAACGGGACTCTAGC
+HWI-EAS443:3:48:1027:76#0/1
a_L[a¥[`R^MY`aQST]YJOVRXLX[TUY[YLOSSQUPJ
@HWI-EAS443:3:48:1064:704#0/1
GTCCATTATTCTTGTCTGCTGTAATTGGGTATCTCATT
+HWI-EAS443:3:48:1064:704#0/1
_Y_aab`]b_]`_aa`]_b_S¥aYZ¥aa`Y^PY]¥`__a]
@HWI-EAS443:3:48:1066:1629#0/1
GAATAAAGAAGTGAAGATCTAATGTCGCAGTCCCGCAC
+HWI-EAS443:3:48:1066:1629#0/1
a`aa`babaaaaa_aaaaaa_aa_aa`_a_a_V_V[____]^
@HWI-EAS443:3:48:1069:547#0/1
CCCCTTTGCTGCTGCTCCACCAGAACAGAGTAGGATGCAA
+HWI-EAS443:3:48:1069:547#0/1
aba`bbbaaabaaba_aZQ[`[a^`_[aWaZ^a____`Z^_
@HWI-EAS443:3:48:1085:644#0/1
AAAGAAGTGAAGATCTAATGTCGCAGTCCCGCACTCGCG
+HWI-EAS443:3:48:1085:644#0/1
aaaa¥aaa__]a]a^[bb_aa¥^^Vaa_N_Z]VXZVQSX_
@HWI-EAS443:3:48:1098:154#0/1
AAAGAAGTGAAGATCTAATGTCGCAGTCCCGCACTCGCG

+HWI-EAS443:3:48:1098:154#0/1
aaaa` `aaaaaaaa__aa¥`a¥`_^`WWY¥^[VWV¥^V¥
@HWI-EAS443:3:48:1100:283#0/1
CGCACTCGCGAGATACTCACTAAGACCACTGTGGACCATA
+HWI-EAS443:3:48:1100:283#0/1
aa]aa`a`aaa`a`_a__]a`__^]^^^__]__^VUV]]
@HWI-EAS443:3:48:1114:1355#0/1
GGAATGAACAAGGACAAACCCTCTGGAGCAAAACAAACGA
+HWI-EAS443:3:48:1114:1355#0/1
a¥URQ]SU¥ZR]R^_VJV^UPXUMU[GVURUUTZZRVODK
@HWI-EAS443:3:48:1182:1180#0/1
TGCTGGGCCATATCTCTTGTCTTCTTTGCCAAAATGAGA
+HWI-EAS443:3:48:1182:1180#0/1
a` `` _]a`aaaaba` `aa`^_aa_a` `]` `` `` `` _^` _
@HWI-EAS443:3:48:1196:170#0/1
GGGGACGTAGTGTGGTAATGAAACGAAAACGGGACTCTA
+HWI-EAS443:3:48:1196:170#0/1
abaa¥_b`_b_b_aaaVa`_aXa^¥` [^^T^`_YU]¥ZV
@HWI-EAS443:3:48:1200:839#0/1
GACAAGAGAATAATGGACATGATTCCAGAGAGGAATGAAC
+HWI-EAS443:3:48:1200:839#0/1
aa_baaaa`aaaaaaaa_aaaaa_a^_a¥`^a__` `a__W
@HWI-EAS443:3:48:1208:312#0/1
GAATAAAAGAACTGAGAGATCTAATGTCGCAGTCCCGCAC
+HWI-EAS443:3:48:1208:312#0/1
a_aa^aa`]X_]a__` `^^U`_]aU]]]_]UY]XYU]
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AAAAGAACTGAGAGATCTAATGTCGCAGTCCCGCACTCGC
+HWI-EAS443:3:48:1213:1302#0/1
^_aSa^X]Z]Z`]X__HN_^ZWJV` [RZRG¥YOWBBBBBB
@HWI-EAS443:3:48:1227:775#0/1
GAAGAGCAGCAGTGTTCAGCAGACCCATTAGCATCTCTCTT
+HWI-EAS443:3:48:1227:775#0/1
_`T`aZabb^a_SaQZY¥aaN`_T^]aaOL¥SZ¥¥WaW_¥
@HWI-EAS443:3:48:123:1003#0/1
GCTGGATCAGACCGAGTGATGGTATCACCTCTGGCCGTAA
+HWI-EAS443:3:48:123:1003#0/1
aabba_aabaa`¥`aa_a`_aa[]^¥`^Z` `^Z¥^V[P[U
@HWI-EAS443:3:48:1252:1722#0/1
GAATAAAAGAACTGAGAGATCTAATGTCGCAGTCCCGCAC
+HWI-EAS443:3:48:1252:1722#0/1
_Z_aW_¥aaZ_]a`a¥`a`^Q^a[]a__a^][QP][YZ[VQ
@HWI-EAS443:3:48:1265:773#0/1
TAATGTCGCAGTCCCGCACTCGCGAGATACTCACTAAGAC
+HWI-EAS443:3:48:1265:773#0/1
a_aUYIbUX__a[a¥¥a[_aOGW^G¥U_VUaY_^^_XYRZ
@HWI-EAS443:3:48:1275:755#0/1
CCCGCACTCAGAATGAAGTGGATGATGGCAATGAGATACC
+HWI-EAS443:3:48:1275:755#0/1
^bab]abaa`b[abb`_b_baabbb^aUa`aaaa^b]]a¥_

@HWI-EAS443:3:48:1279:48#0/1
CCGTTTTTCGTTTCATTACCAACTACTGCCCCCTTGCCCA
+HWI-EAS443:3:48:1279:48#0/1
^bbbbbbb`abbbbabab^ba`baaaa`]^^`a`a]Y]Y
@HWI-EAS443:3:48:1280:1967#0/1
GAGATACTACTAAGACCACTGTGGACCATATGGCCATAA
+HWI-EAS443:3:48:1280:1967#0/1
aa``aaaa`aaabaaa_Z`aaa_a``]_^a`Va_U___U_
@HWI-EAS443:3:48:1289:1731#0/1
AAAGAAGTCTAATGTGCGAGTCCCGCACTCGCG
+HWI-EAS443:3:48:1289:1731#0/1
a]WI_]aabaZb¥¥aX_b`aaXaU¥Za[NQXX___¥YaGY
@HWI-EAS443:3:48:130:1295#0/1
CTGATGTCAGTATTCTTGCCCCACTTCATTTGGGAAAAC
+HWI-EAS443:3:48:130:1295#0/1
[`aa_^_bbZbabbba_ab[Yb_a[W^a`^`abaRO[b^F
@HWI-EAS443:3:48:1318:384#0/1
CAACTCTCCTTATTTAACTTGATTTCTGAAGTGGAC
+HWI-EAS443:3:48:1318:384#0/1
abbbb`ba`baa]aabbbba`bbbabbabb`ab_aaa_
@HWI-EAS443:3:48:1318:56#0/1
GAGAATAAAAGAACTGAGAGATCTAATGTCGAGTCCCGC
+HWI-EAS443:3:48:1318:56#0/1
T¥`YYb```abbb^]b_baaaa^aaabb__a__a`¥a¥``
@HWI-EAS443:3:48:1334:573#0/1
GCCATGGTATTCTCACAAGAGGATTGCATGATCAAGGCAG
+HWI-EAS443:3:48:1334:573#0/1
aa]_`a]Y^ba`a____`a^``]a`a__aa__W`]`¥G[_
@HWI-EAS443:3:48:1343:1682#0/1
CTCGGAGATACTACTAAGACCACTGTGGACCATATGGC
+HWI-EAS443:3:48:1343:1682#0/1
aabaab_b_a_```aaa_ba`a`a`_W`[a`^`_¥__WZ
@HWI-EAS443:3:48:1349:928#0/1
CGTTAGCACTTCTTCTTTCTTGGACTGATGATCCGCTT
+HWI-EAS443:3:48:1349:928#0/1
^aab`baaaababa`b`abbb`baba_a¥_aaaa__b`a]
@HWI-EAS443:3:48:1350:701#0/1
AAAGAAGTCTAATGTGCGAGTCCCGCACTCGCG
+HWI-EAS443:3:48:1350:701#0/1
abb`_aab]aaaaaaba_ba¥aaa_aW`____¥^YX¥^`
@HWI-EAS443:3:48:1352:1210#0/1
CCCGCACTCAGAATGAAGTGGATGATGGCAATGAGATACC
+HWI-EAS443:3:48:1352:1210#0/1
aaaa`````aab_aaa__¥aa^aa]`a`Z^_a_^^^___V
@HWI-EAS443:3:48:1352:983#0/1
GGCCATATCTTGTCTTCTTTGCCAAAATGAGAAATC
+HWI-EAS443:3:48:1352:983#0/1
aYS[¥aaaa`a`aa`Z`a_aaa^^`_[a[`aaa`Z^`Y
@HWI-EAS443:3:48:1354:314#0/1
AAAGAGAAGAAAGAAGAGCTCCAGGATTGAAAATTGCTC

+HWI-EAS443:3:48:1354:314#0/1
]Y¥¥^_]U`^`]¥X_¥_T_[TT^_]_YNVV[V¥aWJ[L
@HWI-EAS443:3:48:1362:1655#0/1
AGGGGACGTAGTGTGGTAATGAAACGAAAACGGGACTCT
+HWI-EAS443:3:48:1362:1655#0/1
a_aa^abb`]b[`VaUaS`aX_aaa^a`aaS`_a^]XYR
@HWI-EAS443:3:48:1382:171#0/1
GTCCCGTTTTTCGTTTCATTACCAACTACGTCCCTTGC
+HWI-EAS443:3:48:1382:171#0/1
`H^`ab_bbaab¥_^_abaa]L_`^a__ZTa]]]^¥^W^Z
@HWI-EAS443:3:48:1384:875#0/1
TGCTGTAATTGGGTATCTCATTGCCATCATCCACTTCATT
+HWI-EAS443:3:48:1384:875#0/1
]b_]_T[ZZb_ba_XYX]SY¥^^[Za¥__a`U[aa_V]^W
@HWI-EAS443:3:48:1398:257#0/1
GTGGACCATATGGCCATAATCAAAAAGTACACATCAGGAA
+HWI-EAS443:3:48:1398:257#0/1
^^bbaaaIaa]`ba`__^a`U]_a`a¥M^[\`¥`TQ¥`a[_
@HWI-EAS443:3:48:1411:230#0/1
GTCTTCTTTGCCAAAATGAGAAATCCTCTCAGGACAGCA
+HWI-EAS443:3:48:1411:230#0/1
a¥^a[H`____[_^`^YZ_aaQQV[_ST¥V_NU_^TWT^QW
@HWI-EAS443:3:48:1412:725#0/1
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+HWI-EAS443:3:48:1412:725#0/1
W_b`a¥^VY`bb¥`a_a^a^_S¥ba^`^b_]`b¥X¥^Z¥
@HWI-EAS443:3:48:1505:17#0/1
GAATAAAAGAACTGAGAGATCTAATGTCGCAGTCCCGCAC
+HWI-EAS443:3:48:1505:17#0/1
a^^`aa``a]_`aa`a^a^`]`_]_aX]`]]`XX]]]]UX
@HWI-EAS443:3:48:151:351#0/1
CTGCTGTCTGAGAGGATTTCTCATTGTTGGCAAAGAAGA
+HWI-EAS443:3:48:151:351#0/1
ab`a`a[aabbaa_ba_bbb_a`_aaaaaa]aa``]^`a
@HWI-EAS443:3:48:1526:1280#0/1
GTCCCGTTTTTCGTTTCATTACCAACTACGTCCCTTGC
+HWI-EAS443:3:48:1526:1280#0/1
aM]_^b____`a]_a^^¥_^XRY^]WV]¥^_VZVZRFM^Z
@HWI-EAS443:3:48:1535:473#0/1
TGTCGCAGTCCCGCACTCGCGAGATACTACTAAGACCAC
+HWI-EAS443:3:48:1535:473#0/1
aaaaaabb[aaaa`¥`_a`_`Za____^^^PV^X¥YPPXP
@HWI-EAS443:3:48:1536:1127#0/1
GAAGATCCAGATGAAGGCACATCTGGGGTGGAGTCTGCTG
+HWI-EAS443:3:48:1536:1127#0/1
bbbaababb^ba^aab^aaaaabaaba¥ba^a^[`a_`Y
@HWI-EAS443:3:48:1547:849#0/1
GTGGTCTTAGTGAGTATCTCGCGAGTGCGGGACTGCGACA
+HWI-EAS443:3:48:1547:849#0/1
``bb`abb`b`aab`a```]_]_T]Z^[_`]_LVY[Q¥SVY

@HWI-EAS443:3:48:1569:1992#0/1
AAAAGAAGCTGAGAGATCTAATGTCGCAGTCCCGCACTCGC
+HWI-EAS443:3:48:1569:1992#0/1
aa_aaa`a^^aaa_Y`a_aa`a¥^`_[^S¥¥_¥^T_YWWW
@HWI-EAS443:3:48:1598:1699#0/1
GGACATGATTCCAGAGAGGAATGAACAAGGACAAACCCCTC
+HWI-EAS443:3:48:1598:1699#0/1
¥b``Xa``_bb]X¥a]TaTZX``ZZUZ]ZZZR^a`GXYYN
@HWI-EAS443:3:48:1655:816#0/1
GACCGATTTTTAAGGGTTAGAGATCAAAGAGGGAACGTAC
+HWI-EAS443:3:48:1655:816#0/1
a_¥^`[Y`aaa_[aa¥^`]]][X]¥Z`_]`^__]]^X`Z^]
@HWI-EAS443:3:48:1686:1671#0/1
AAAGAAGCTGAGAGATCTAATGTCGCAGTCCCGCACTCGCG
+HWI-EAS443:3:48:1686:1671#0/1
`abN`a`_`_`aa`^ab^ab¥Z]`XLR¥ZWRXY^N¥¥B
@HWI-EAS443:3:48:1693:724#0/1
CGCACTCGCGAGATACTCACTAAGACCACTGTGGACCATA
+HWI-EAS443:3:48:1693:724#0/1
U_WX^Wa_¥^G[ZYT``VWa``ZOZZ__``_RQWUX¥
@HWI-EAS443:3:48:1695:1644#0/1
CTGAAATGGTTCAAATCCATTTTGTGTATAACATTGTG
+HWI-EAS443:3:48:1695:1644#0/1
`aabb_abbab_baabbaa`a_bbaaab`a`aaa^a`a^^
@HWI-EAS443:3:48:1698:246#0/1
ATCTAATGTCGCAGTCCCGCACTCGCGAGATACTCACTAA
+HWI-EAS443:3:48:1698:246#0/1
aa_babba`ab`a`_SZ`_]X_]_]X[_¥XX^X^U]^Y
@HWI-EAS443:3:48:1736:59#0/1
AAAGAAGCTGAGAGATCTAATGTCGCAGTCCCGCACTCGCG
+HWI-EAS443:3:48:1736:59#0/1
a_W¥`a0_]aaaa]aaaa^baQ`aZa`VS_`^UIR[[XYY
@HWI-EAS443:3:48:1768:301#0/1
ATACTCACTAAGACCACTGTGGACCATATGGCCATAATCA
+HWI-EAS443:3:48:1768:301#0/1
`b`a`]aYbbabaa`_abb_a`^Y^a__a`YU]¥V]`TR
@HWI-EAS443:3:48:184:1347#0/1
AGCAAAACAAACGATGCTGGATCAGACCGAGTGATGGTAT
+HWI-EAS443:3:48:184:1347#0/1
aa`aaa`babb^`_`a_aaa`^a`XaZUZa^`^`_U[U
@HWI-EAS443:3:48:201:1125#0/1
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+HWI-EAS443:3:48:201:1125#0/1
abba`ba`a_aa[abbbbbaaa``]aaaa^a`^a[^a]__a
@HWI-EAS443:3:48:233:2012#0/1
GAATAATGGACATGATTCCAGAGAGGAATGAACAAGGACA
+HWI-EAS443:3:48:233:2012#0/1
a[^_^]`aW__`T]Z¥^V¥¥¥_Y]`^^X_WZVZ¥ZZ^X^
@HWI-EAS443:3:48:250:1841#0/1
GAGAAATCCTCTCAGGACAGCAGACTCCACCCAGATGTG

+HWI-EAS443:3:48:250:1841#0/1
a^QY_ba_U_U^`]ZR]__a_aaYRYZRWY]W]ZYZRUU[
@HWI-EAS443:3:48:280:320#0/1
CAATTCCCCAGTTCTGGAAAAGCACTTTTGCATCTTTTGTG
+HWI-EAS443:3:48:280:320#0/1
a`¥baa`aW_ba`[_bb^aa`[a^Q^[]aa^`a_b```_¥
@HWI-EAS443:3:48:316:668#0/1
AAAGAAGTGGAGATCTAATGTCGCAGTCCCGCACTCGCG
+HWI-EAS443:3:48:316:668#0/1
aa^^`¥aaaa_b]``aaaa`^a]Raa¥_aa^_[^`[_¥a
@HWI-EAS443:3:48:356:1178#0/1
CTGTAATTGGGTATCTCATTGCCATCATCCACTTCATTCT
+HWI-EAS443:3:48:356:1178#0/1
aba_aabbbbaaab`aaaba`a¥aaabaa_]aaa`aaa_a
@HWI-EAS443:3:48:35:1434#0/1
GAGGTTGCCGTTAGCACTTCTTCTTCTTTCTTGACTGAT
+HWI-EAS443:3:48:35:1434#0/1
`¥aaUabb_aa`abbaa`bbY^`]babaa```Z_^a[aa
@HWI-EAS443:3:48:378:660#0/1
AAAGAAGTGGAGATCTAATGTCGCAGTCCCGCACTCGCG
+HWI-EAS443:3:48:378:660#0/1
a`aa^`[baaa_aZaaaU`aaUaa`[a¥^___¥^¥_Wa¥]
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CATCAAGGGAGCAATTTTACAATCCTGGAGCTCTTCTTTC
+HWI-EAS443:3:48:386:426#0/1
aYab````]ab]babbbba`aa^a]a^NYaYaGaYW`]V
@HWI-EAS443:3:48:406:560#0/1
TGGAAATGTGCCACAGCACACAGATTGGAGGAGTAAGGAT
+HWI-EAS443:3:48:406:560#0/1
_T_U_VXQWb^SW_T^`S]a[[aZTT`XWaa[`HUZ`Ya¥Y
@HWI-EAS443:3:48:412:1345#0/1
CCGCACTCGCGAGATACTACTAAGACCACTGTGGACCAT
+HWI-EAS443:3:48:412:1345#0/1
abbbbbbbbbbbbabbbabba`bbbbbaababbab`baa`b
@HWI-EAS443:3:48:420:738#0/1
CGCGAGATACTACTAAGACCACTGTGGACCATATGGCCA
+HWI-EAS443:3:48:420:738#0/1
abbaaaa^¥_babaaaab```baaa^a[_^`_a``_a^¥`
@HWI-EAS443:3:48:423:59#0/1
CAAGGACAAACCCTCTGGAGCAAACAAACGATGCTGGAT
+HWI-EAS443:3:48:423:59#0/1
`L[`baaaU[Na_Z^aba`bbabaaaaa`a`]`V]aR_`
@HWI-EAS443:3:48:466:639#0/1
CTGCTGTCCTGAGAGGATTTCTCATTGTTGGCAAAGAAGA
+HWI-EAS443:3:48:466:639#0/1
ab_babaaa_b`]_bb````]_aa[baa`_b_aaaaa`[``
@HWI-EAS443:3:48:486:1046#0/1
GGGACGTAGTGTGGTAATGAAACGAAAACGGGACTCTAG
+HWI-EAS443:3:48:486:1046#0/1
aaa_]b]_a]a]aa`W[```[_^U^V```_V]]]]UXYYX]

@HWI-EAS443:3:48:494:1985#0/1
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+HWI-EAS443:3:48:494:1985#0/1
`a`b__bab`aUb_abbab`aab]aaaa`aaa`a_^[a
@HWI-EAS443:3:48:513:186#0/1
GTCCCCGTTTTCGTTTCATTACCAACTACGTCCCCCTTGC
+HWI-EAS443:3:48:513:186#0/1
aY]_]b¥`aab`a`aaa^]_a__^`YUS]]S[]][UV
@HWI-EAS443:3:48:568:1636#0/1
CCCCGTTTTCGTTTCATTACCAACTACGTCCCCCTTGGCC
+HWI-EAS443:3:48:568:1636#0/1
Z_WVZ¥ba`¥`M`Ua`bb[]bbaaaaa`b`K_IYDUP`X^
@HWI-EAS443:3:48:619:1193#0/1
CGCGAGATACTCACTAAGACCACTGTGGACCATATGGCCA
+HWI-EAS443:3:48:619:1193#0/1
`aab_ba`aa`[]aa`__`aaa____`^____H¥YZ]_]]]
@HWI-EAS443:3:48:633:1108#0/1
GATTAGCTCATCTTTCAGTTTTGGTGGGTTCACTTTCAAAA
+HWI-EAS443:3:48:633:1108#0/1
¥^YS`a]Y`a__^X¥[V¥V][_YRSWaUV`JU`^`ZO¥^Z
@HWI-EAS443:3:48:643:426#0/1
CTGTAATTGGGTATCTCATTGCCATCATCCACTTCATTCT
+HWI-EAS443:3:48:643:426#0/1
ab`abba`baabbbba¥`a`aaa^aa`bb[]ba_a
@HWI-EAS443:3:48:662:960#0/1
AAAAGAAGTGAAGATCTAATGTCGCAGTCCCGCACTCGC
+HWI-EAS443:3:48:662:960#0/1
^]_[aaaa[a]`__V_V¥`____[^_Q[¥VPZUXX)`¥
@HWI-EAS443:3:48:684:25#0/1
GTCCCCGTTTTCGTTTCATTACCAACTACGTCCCCCTTGC
+HWI-EAS443:3:48:684:25#0/1
a¥__Xb¥`aaZa_^`]]__`WW^]]^]]X]WWYYZZ¥Z
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CCTCAACCCTGATCCTCTCACATTACAGTCAATGAGGAA
+HWI-EAS443:3:48:699:1351#0/1
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@HWI-EAS443:3:48:708:212#0/1
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+HWI-EAS443:3:48:708:212#0/1
a_aOFSb_]Y`G_S¥XV^`Y_a_a___Z¥]_^N_^¥U¥^
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+HWI-EAS443:3:48:743:898#0/1
[_`X`b`]`a`aaa¥`_`Za`W^a_a^_]U_]`_`V
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+HWI-EAS443:3:48:750:372#0/1
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+HWI-EAS443:3:48:769:692#0/1
[`[aZ]]a_aaababUa^aa_aa_]`^_]XZMXYV¥YUY
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+HWI-EAS443:3:48:791:115#0/1
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@HWI-EAS443:3:48:801:1792#0/1
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+HWI-EAS443:3:48:801:1792#0/1
Za`a¥`_`a¥^`_]Z^_a^`¥`aa^^[GY[ZM¥aWZXDWUD
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+HWI-EAS443:3:48:815:1988#0/1
Y¥`]aYbba`b_aab`XaX_]T_^H]]a^Ha`a_^_[¥N
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+HWI-EAS443:3:48:83:1006#0/1
aaZa`a`^aa`Xa^`¥^`^`a`]__aY__Z¥`]Y^S
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+HWI-EAS443:3:48:852:1752#0/1
`X^a_UaYL¥_aaa¥]aba[[X¥__WUP[_Y]____`__ZL
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+HWI-EAS443:3:48:865:758#0/1
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@HWI-EAS443:3:48:879:1211#0/1
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+HWI-EAS443:3:48:879:1211#0/1
abaa`_`a_^a¥^^a`aa__`__a`aa]__`WZ_]X^Z^
@HWI-EAS443:3:48:879:210#0/1
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+HWI-EAS443:3:48:879:210#0/1
`^^`¥a`aa¥_YU`a_____^^¥^^^`VUY^U^^ZZ^
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+HWI-EAS443:3:48:890:993#0/1
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@HWI-EAS443:3:48:892:848#0/1
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+HWI-EAS443:3:48:915:749#0/1
a`_a`aa]a]__aaaa`_a`__`_]_[_[¥[ZXOR[WM
@HWI-EAS443:3:48:930:16#0/1
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+HWI-EAS443:3:48:930:16#0/1
a_aa^`_`aaa_aa^ab`^a^^aaaa`_]__]^a^`_]_
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+HWI-EAS443:3:48:960:1903#0/1
a`aaa`_]`__¥ZXTV_U_^_VJY_[ZU[_MU^]X_]`^`PI
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+HWI-EAS443:3:48:995:541#0/1
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+HWI-EAS443:3:48:996:722#0/1
aaa^_a_b_aaaab`_aaaa_aa```aa___aaa`a`aa^
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+HWI-EAS443:3:49:1038:902#0/1
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+HWI-EAS443:3:49:1048:1667#0/1
aaa¥[XIRba_`^^[¥Ub`_aa`P_WNaS¥XYaXRU_¥]N
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+HWI-EAS443:3:49:1057:1691#0/1
`_]__X_UZ`_XXVWZ]¥^VY]W[T[SQXUP¥¥[JUMTRYO
@HWI-EAS443:3:49:1059:1067#0/1
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+HWI-EAS443:3:49:1059:1067#0/1
^a`a````bbbb`_]bb`^`abbbabW__`^`a]aaa_[Wa_T
@HWI-EAS443:3:49:1064:1942#0/1
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+HWI-EAS443:3:49:1064:1942#0/1
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+HWI-EAS443:3:49:1283:39#0/1
a]`]^_aaaa¥¥baaaaa_aa_^a[`__a`_¥a^^aa^`^
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+HWI-EAS443:3:49:1302:106#0/1
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+HWI-EAS443:3:49:1316:1435#0/1
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+HWI-EAS443:3:49:1342:1983#0/1
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+HWI-EAS443:3:49:1355:401#0/1
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+HWI-EAS443:3:49:136:181#0/1
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+HWI-EAS443:3:49:1379:1122#0/1
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+HWI-EAS443:3:49:1383:1123#0/1
aaa`baaaaaaa_aa_aba``¥``_Z¥^`¥Z^¥__[_W`W
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+HWI-EAS443:3:49:1429:368#0/1
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+HWI-EAS443:3:49:1483:1309#0/1
_ab_bb`baa_baT¥a_^_baaaabXbabaa_``aa¥][_
@HWI-EAS443:3:49:1505:923#0/1
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+HWI-EAS443:3:49:1505:923#0/1
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+HWI-EAS443:3:49:1571:1010#0/1
abb_a`bbabaababbbbaa`aa`a`ba¥a`a]`__a``_]
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+HWI-EAS443:3:49:1598:1540#0/1
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+HWI-EAS443:3:49:161:965#0/1
aa_`[_`_ab_aaa^`[aaa`aU^_``a¥`¥]`¥U¥_]_U]
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+HWI-EAS443:3:49:1622:166#0/1
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+HWI-EAS443:3:49:166:1212#0/1
abaa`^``aa¥`aa`_`a_a^__`a`_`_a____]_X_]`
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aa_ab]b[a]bb^_a`a`aaV_`^`XKV_``UU^Q[UTU
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+HWI-EAS443:3:49:1703:552#0/1
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+HWI-EAS443:3:49:1717:311#0/1
ab¥^aTXb_0_`^¥`aaXb0aX^Z¥ZR]ZTX_T_R¥0`BBB
@HWI-EAS443:3:49:1718:284#0/1
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+HWI-EAS443:3:49:1718:284#0/1
abbbbbbbbaaa`]^bbababaa_aaa__baaa_Ua```a
@HWI-EAS443:3:49:1745:1855#0/1
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+HWI-EAS443:3:49:1745:1855#0/1
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+HWI-EAS443:3:49:1750:1665#0/1
a_]0[_`aabaaaa_a[aa¥aaRS`[_`¥Y¥^Y[UZ¥YYSR

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+HWI-EAS443:3:49:1763:1854#0/1
ab_aaa^abaaa^`_a`_a`_`[_W`_`_¥`]]_¥U_
@HWI-EAS443:3:49:1779:1320#0/1
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+HWI-EAS443:3:49:1779:1320#0/1
a`aRZa[`aYV^[]^WZa^YV]]Y]]^]]^VTTSV]VWU
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+HWI-EAS443:3:49:205:931#0/1
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@HWI-EAS443:3:49:224:484#0/1
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+HWI-EAS443:3:49:224:484#0/1
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+HWI-EAS443:3:49:238:212#0/1
`aaa`[Zbbabb[aa__`aaa^a_[aZ^```aa`^`_N``
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+HWI-EAS443:3:49:250:803#0/1
aabb`aababbaaaaaaabb]aaa`aaaaaa]a`aaa
@HWI-EAS443:3:49:28:600#0/1
CGCACTCGCGAGATACTACTAAGACCACTGTGGACCATA
+HWI-EAS443:3:49:28:600#0/1
`_^_a_a)`^_¥^_]a_X]]^Y`_]`_]`^ZRW[ZUV[Z
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+HWI-EAS443:3:49:362:262#0/1
aXabb_b^¥Saab]`b^¥`b`_]ZZY```]aW__aa`]¥T
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+HWI-EAS443:3:49:36:107#0/1
[b``bbbaa_aa`^)`aaaa`Za`¥QZ]`_S][][]TU[`[
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_``bPba_bb^aaaaaaa]a^¥aa`aaaa¥U_a[_a^T
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+HWI-EAS443:3:49:439:197#0/1
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abbbbabbbbab`bbbbbbbaaaaa^bbab¥a_abaa
@HWI-EAS443:3:49:479:729#0/1
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+HWI-EAS443:3:49:500:451#0/1
ab[X_`abb_`abaabbaba_aa¥a`aaaa¥^`__`_]`_
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+HWI-EAS443:3:49:531:1027#0/1
a`aabaaaa_a_aaaaa_Ya_aa]`aV_¥a_^_X_Y¥^NQ
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abbbbaabbbbaaababaaab`aaaa^`aa____`][
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@HWI-EAS443:3:49:599:708#0/1
CGCGAGATACTACTAAGACCACTGTGGACCATATGGCCA
+HWI-EAS443:3:49:599:708#0/1
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ATGTCGCAGTCCCGCACTCGCGAGATACTACTAAGACCA
+HWI-EAS443:3:49:603:552#0/1
`bbIW][aa[[[a_`_ab][V`_U]¥V_[_Z[`U^[ZG^
@HWI-EAS443:3:49:613:1693#0/1
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+HWI-EAS443:3:49:613:1693#0/1
aaaab_abaaa^aa`aaaa^[aa_a_`a__XZZ¥^^^¥¥
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+HWI-EAS443:3:49:641:415#0/1
abbabbbabab]baaabbaabb_aabba_a^aa__a`a]
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GCGAGATACTACTAAGACCACTGTGGACCATATGGCCAT
+HWI-EAS443:3:49:651:1457#0/1
abbab_`aaa_baaaaaaa`_ba^a^_a_a`^```]``
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+HWI-EAS443:3:49:659:865#0/1
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+HWI-EAS443:3:49:687:150#0/1
abbabababbbbbbab`abba_b_aa`__`a_`^`¥_]`
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+HWI-EAS443:3:49:712:1222#0/1
`aabaaabab`a`b`^aa_ba_a_a^aa`aa`a__RRR`

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+HWI-EAS443:3:49:733:889#0/1
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+HWI-EAS443:3:49:737:500#0/1
a`aababbb`a`bab`a`^aaa^`aWq]ab`¥`^]X_]`
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+HWI-EAS443:3:49:750:1305#0/1
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+HWI-EAS443:3:49:756:576#0/1
aaaaab`^a_bbaab`abab^b¥aa_a`aaa`_a`aa`a`
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+HWI-EAS443:3:49:788:95#0/1
a`_Z^`Zaba¥b^^^aa_]`[_^`__^`]OVUXY][Y
@HWI-EAS443:3:49:799:1623#0/1
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+HWI-EAS443:3:49:799:1623#0/1
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+HWI-EAS443:3:49:81:113#0/1
_babbbbab_ababbaaaa`aaaaba_ab`aa[]`¥`^[]`
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+HWI-EAS443:3:49:890:1438#0/1
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@HWI-EAS443:3:49:939:738#0/1
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+HWI-EAS443:3:49:939:738#0/1
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+HWI-EAS443:3:49:950:349#0/1
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aba_00HbaaVYX[]¥VX_[^^P]]_aS¥U_U_ZU[ZR]]
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+HWI-EAS443:3:4:1013:769#0/1
abbb¥_b__bXb^aaaY^_a_` `a¥a^__`X^`_UU`UX
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+HWI-EAS443:3:4:1057:1476#0/1
a_[^b`abbb¥^`ba` ``abaaaUbaabZ^`a_aaSXV`
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+HWI-EAS443:3:4:1113:1796#0/1
aaV[ba¥aa`aa`XW`^`aa][[O[aX]Z_]ZFTNN]G¥B
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CCCCGTTTTCGTTTTATTACCAACTACGTCCCCCTTGCCC
+HWI-EAS443:3:4:1128:802#0/1
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ab` `aa]aa`aaa`aaaaY__a_` `]_^_Xaa` ``^_U[
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+HWI-EAS443:3:4:1170:482#0/1
^ab^bbaababababZ`aa`[a_`a`_a_P]a`ZTa^_^^
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+HWI-EAS443:3:4:1224:1797#0/1
`ab[¥Z^`aaaa_a¥¥G]aaaY[____]^ [`a__aS^^X[a
@HWI-EAS443:3:4:1240:881#0/1
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+HWI-EAS443:3:4:1240:881#0/1
_O^PVaa_U¥TO[¥UUXaYZVZ^_[` [RBBBBBBBBBBBB
@HWI-EAS443:3:4:1252:1445#0/1
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+HWI-EAS443:3:4:1252:1445#0/1
^` `bbabbb][K_b]aabaa`aaaa`a_ba_a^aa^` `^`
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+HWI-EAS443:3:4:1284:1781#0/1
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@HWI-EAS443:3:4:1320:1424#0/1
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+HWI-EAS443:3:4:1320:1424#0/1
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+HWI-EAS443:3:4:1348:739#0/1
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+HWI-EAS443:3:4:1369:1239#0/1
a_]a_a]aV¥`[^Taaaa_aa`___a^[_a___ZP__¥
@HWI-EAS443:3:4:1393:601#0/1
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+HWI-EAS443:3:4:1393:601#0/1
_aPabaa`[``aUQ[aUaba¥aYY^Qa[_aa]_aU_]X]_
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+HWI-EAS443:3:4:1427:1257#0/1
Y`a`_``_V_WKV^a^PZ^aZT`aaa```_W[[_`^__
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+HWI-EAS443:3:4:143:863#0/1
_aWZ^ab¥0`a^X_aaRaZ^VVV`]W^a^¥¥¥^`¥Z¥MQT
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+HWI-EAS443:3:4:1459:1509#0/1
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+HWI-EAS443:3:4:1472:1718#0/1
^[bab]aaaaa`]`_[`a`ba_YU__aU¥[X¥STF^Z`UT
@HWI-EAS443:3:4:1481:1297#0/1
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+HWI-EAS443:3:4:1481:1297#0/1
a`a_abaabb_baaa_aaaa[Xa]W`_``]_^]_Y]]]`X
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+HWI-EAS443:3:4:1500:374#0/1
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+HWI-EAS443:3:4:1594:432#0/1
abbab_a_baaaaaa_aa`aa__`_`_XXY]]^X]XX]U
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+HWI-EAS443:3:4:1606:1426#0/1
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+HWI-EAS443:3:4:1651:1793#0/1
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+HWI-EAS443:3:4:576:956#0/1
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+HWI-EAS443:3:4:668:1086#0/1
aLa_a_]_aaa[_¥_U[[a^WKXUXMR_W^[U¥_]WBBBB
@HWI-EAS443:3:4:673:1240#0/1
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+HWI-EAS443:3:4:673:1240#0/1
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a`bababb`a^^aaa_aaab`aaa__aaa]U^`[_`^
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aaa`aaaab_U`^[_`_aaYa0^aa`a^a_aa`_¥_^Y_]`
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+HWI-EAS443:3:4:731:1866#0/1
aaa_aaaa^`a`aaaa¥`a_^_a`a`a]_]__^Y]Z]]][W
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+HWI-EAS443:3:4:742:880#0/1
ababbaaab[bb^a]¥T¥a_a`aa_abab_]`_bb^_R][
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__bab]bababb`_aaUbbaaa_aa_aX^[_aW^]_a_
@HWI-EAS443:3:4:780:1290#0/1
GTGTACTTTTTGATTATGGCCATATGGTCCACAGTGGTCT
+HWI-EAS443:3:4:780:1290#0/1
a¥a^a_aaaaa_aaaa`^]]`_WN]NX¥_T¥YPW`VX]
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+HWI-EAS443:3:4:818:1333#0/1
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+HWI-EAS443:3:4:818:1364#0/1
^]bab¥U¥abba]aaaVbaabba_bbab_[]aab_aUQa_
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+HWI-EAS443:3:4:84:1760#0/1
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+HWI-EAS443:3:4:871:1559#0/1
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+HWI-EAS443:3:4:877:746#0/1
aaaaaa_a^`a`X`_a__aX`a`X`a^`]]____]]`
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@HWI-EAS443:3:4:919:517#0/1
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+HWI-EAS443:3:4:919:517#0/1
a`_aa_a_Xa]^_¥]^`_¥___V]^XY`]^U_[UV^X`YBB
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+HWI-EAS443:3:4:921:618#0/1
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+HWI-EAS443:3:4:923:269#0/1
a_a`_a____^[_a`a]U^`YZ_Y_]_^]GVYN_X]^G]X
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+HWI-EAS443:3:4:945:274#0/1
aaaa]__aa_``]`_____`_^]X`X_]Y^U^^X_]X
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+HWI-EAS443:3:50:1003:1663#0/1
W_¥b_abaabbbaaSbb`ba[aaJaaaa[_a`_aS^RS_
@HWI-EAS443:3:50:1013:700#0/1
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+HWI-EAS443:3:50:1013:700#0/1
`_`aa`]aY`_b]ba_Z_[_a`[aXa_aaaH]V_^]`[_`_
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a`ba`baaa`^a`aa`a`b_a¥a`]aa¥`a^_a[Z^¥_`^
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+HWI-EAS443:3:50:1040:1552#0/1
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+HWI-EAS443:3:50:1089:1520#0/1
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@HWI-EAS443:3:50:1118:1045#0/1
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+HWI-EAS443:3:50:1118:1045#0/1
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+HWI-EAS443:3:50:1133:349#0/1
a^__^aa`a¥]`^`^a[Y_`^VWX[^[a```V[]Y¥YW
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+HWI-EAS443:3:50:1180:361#0/1
S_¥Y_b¥`bb¥aWS¥WaSXR_[U[Z_U_b_¥_Z_`]]`U¥
@HWI-EAS443:3:50:1184:35#0/1
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+HWI-EAS443:3:50:1227:2024#0/1
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+HWI-EAS443:3:50:1299:1595#0/1
Ya``bbbabba_¥```ab`b_]X¥`Va_a`U`aabb¥a]b
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+HWI-EAS443:3:50:1303:810#0/1
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+HWI-EAS443:3:50:1329:629#0/1
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@HWI-EAS443:3:50:1357:962#0/1
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+HWI-EAS443:3:50:1357:962#0/1
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+HWI-EAS443:3:50:1358:103#0/1
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+HWI-EAS443:3:50:1363:308#0/1
`T[_^^[aaa[^`Ra^¥^[¥U]_^_XSR[¥_¥¥W[`W]WY
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+HWI-EAS443:3:50:1371:1574#0/1
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@HWI-EAS443:3:50:1377:1630#0/1
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+HWI-EAS443:3:50:1425:117#0/1
a_ab_aW[``_[aW^ZWJH`VT`]¥aU^Xa^^X`[P]¥PJ

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+HWI-EAS443:3:50:1465:1235#0/1
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+HWI-EAS443:3:50:1489:1857#0/1
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+HWI-EAS443:3:50:1491:652#0/1
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+HWI-EAS443:3:50:1506:172#0/1
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+HWI-EAS443:3:50:1610:39#0/1
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a^]aabaabbaabY¥a]¥¥]XX¥V¥__^^^^[^^^YS[S
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+HWI-EAS443:3:50:1635:1988#0/1
YNXX`W_SaUZ_V¥]T_`TQ¥N¥aTZZU]aYa^``]V]S_
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+HWI-EAS443:3:50:1667:1048#0/1
aaaaababb_a_aa`aaaa_aa`aa```^__^`____]`_
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+HWI-EAS443:3:50:1688:722#0/1
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aaa^Xaabb`bb`bbbbaaaa_bbaabaaaaabaaa`aba
@HWI-EAS443:3:50:196:1567#0/1
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+HWI-EAS443:3:50:196:1567#0/1
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^U¥¥^Z`_J^bbbaabbaa^`abb`b`¥]`^`aaaa^T[
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_Za`XQH_XXW_OX_____QW¥IUab¥X^_aYMX[XRR_`¥
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+HWI-EAS443:3:50:507:1215#0/1
aa`aa^a`^abb__b`a^aV]aa`_Y````aZ_][][]`[
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^U¥_Z___ba_bb_aaaaaZXYT_¥¥`Xa`aX]^a_[-_
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_aaaaZ_bba`bbb^bab`b`b`aa¥H]_a_aaaaa``U
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Z_Pa^__0^abb__a^`ab]b`bba`bbaa_aaaaba]a`
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+HWI-EAS443:3:51:1008:1118#0/1
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aYa]¥``¥_]aZba[aab[`b_[Z_aaa^]R]]_aaa]]]
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+HWI-EAS443:3:51:1201:724#0/1
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^b_bb`a[aa_baa`b_a``bbY¥a`_`¥[_]_^ZTWU_V
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+HWI-EAS443:3:51:1418:1059#0/1
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+HWI-EAS443:3:51:1501:1498#0/1
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Z^^_]YX][a_a_QXZ`a_¥W_X[X`^^`aZT^__Z_Q¥_
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+HWI-EAS443:3:51:1696:1205#0/1
]_b_Z_[ba_b_^_abbbaTPa¥Wa^`b`YX]_X_^U_`]
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+HWI-EAS443:3:51:235:1455#0/1
abb`abSba`_b_a]`TQaba^aaaa_]baaab[^aG¥
@HWI-EAS443:3:51:245:711#0/1
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+HWI-EAS443:3:51:602:1573#0/1
a```^`b`^a`baaa`abaaaa`¥aa_`¥^`aa`aa
@HWI-EAS443:3:51:613:1593#0/1
AAAGAAGTGAAGATCTAATGTCGCAGTCCCGCACTCGCG
+HWI-EAS443:3:51:613:1593#0/1
aaba[aaaaabbbaa_baaaa_a^`a`_``a[a`__]_a¥
@HWI-EAS443:3:51:616:1310#0/1
GGCCATATCTCTTGTCTTCTTTGCCAAAATGAGAAATCC
+HWI-EAS443:3:51:616:1310#0/1
abbaaaa`_b^aab_`ab`a`aaaa`__a_ba``a`a^_
@HWI-EAS443:3:51:618:630#0/1
CACTCGCGAGATACTACTAAGACCACTGTGGACCATATG
+HWI-EAS443:3:51:618:630#0/1
`^bbabbbbaabaaaababaaaa`aaa`a]aaa`aaaaa
@HWI-EAS443:3:51:624:1379#0/1
TGGCAATGAGATACCCAATTACAGCAGACAAGAGAATAAT
+HWI-EAS443:3:51:624:1379#0/1
ab]^T^`a^bZZ^^]aaa]¥Yba_bb```a]`a_[a`_a
@HWI-EAS443:3:51:64:1204#0/1
TGTGGCCATGGTATTCTCACAAGAGGATTGCATGATCAAG
+HWI-EAS443:3:51:64:1204#0/1
`b```]`a^ZPVGW]_X¥_Z[]_[U¥`H¥]TX]XTZVLBBB

@HWI-EAS443:3:51:650:827#0/1
CCCCTTTTTCGTTTCATTACCAACTACGTCCCCTTGCCC
+HWI-EAS443:3:51:650:827#0/1
a`a_HT^a`^`aaa]ab_¥aa_a`aaa_[Ya]Z]aZUF
@HWI-EAS443:3:51:652:1817#0/1
CAATGAGATACCCAATTACAGCAGACAAGAGAATAATGGA
+HWI-EAS443:3:51:652:1817#0/1
a`ababb`babaa¥Y`aa_aaaa^Uaaa_a]_aaaa`Y
@HWI-EAS443:3:51:655:1151#0/1
AAAAGAAGTGGAGATCTAATGTCGCAGTCCCGCACTCGC
+HWI-EAS443:3:51:655:1151#0/1
aaaaaaaa^a`aaa`_aa`aaa^a_aa¥Za^R`]]`¥_¥
@HWI-EAS443:3:51:690:762#0/1
GTGGCGTACATGCTAGAAAGAGAATTGGTCCGTAACAA
+HWI-EAS443:3:51:690:762#0/1
a`baaa_a[`aa_]J]`_a]a^aa`a`¥¥_a¥__a`V^_
@HWI-EAS443:3:51:694:349#0/1
AATGAAGTGGGGCAAGAATACTGACATCAGAGTCACAGC
+HWI-EAS443:3:51:694:349#0/1
a`b`a`b^bab]b[aaaa^`a]`aaX^`a_a^aTa^a_`[
@HWI-EAS443:3:51:712:282#0/1
CACTGTGGACCATATGGCCATAATCAAAAAGTACACATCA
+HWI-EAS443:3:51:712:282#0/1
ab[`¥YaZ¥VabbbZYaU`b`J`a]_a`WK_`ZISba`aQ
@HWI-EAS443:3:51:767:25#0/1
GTGGATGATGGCAATGAGATACCCAATTACAGCAGACAAG
+HWI-EAS443:3:51:767:25#0/1
a]aa^ab__`b__^`_`a]____X____`_]_]_]XXX]_
@HWI-EAS443:3:51:80:432#0/1
AAGGCACATCTGGGTGGAGTCTGCTGTCCTGAGAGGATT
+HWI-EAS443:3:51:80:432#0/1
aaaa^_aaa^aba` `[aa¥a^¥`a¥_a^W^aa[¥]^XW__
@HWI-EAS443:3:51:815:1952#0/1
GTGGGTTCACTTTCAAAGGACAAGCGGATCATCAGTCAA
+HWI-EAS443:3:51:815:1952#0/1
a`aaaWaaW][aaY[`a`^Z^aa¥`_aaZ^^Z]OX`RL¥_
@HWI-EAS443:3:51:828:1973#0/1
AGGGGACGTAGTGTGGTAATGAAACGAAAACGGGACTCT
+HWI-EAS443:3:51:828:1973#0/1
a`a`aaab`ababaab`NV¥VW¥a_Q^aa`[DX``SV^Z^
@HWI-EAS443:3:51:86:877#0/1
CCCCTTTTTCGTTTCATTACCAACTACGTCCCCTTGCCC
+HWI-EAS443:3:51:86:877#0/1
aaab`abbaaababbab^_aaaa_ababa_a`_`_`_]`_
@HWI-EAS443:3:51:892:1595#0/1
GTGTACTTTTTGATTATGGCCATATGGTCCACAGTGGTCT
+HWI-EAS443:3:51:892:1595#0/1
a`]P[`aaa_`PS`Z`S`RZV[SPXFLWFQ[Q_[PPYHWU
@HWI-EAS443:3:51:905:1777#0/1
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+HWI-EAS443:3:51:905:1777#0/1
a_a`_aa^aaaa_`Y_`_]X[`a¥FM¥_` `HXU]UY__^_
@HWI-EAS443:3:51:925:1150#0/1
TGAATACTCCAGCACGGAGAGAGTGGTAGTGAGTATTGAC
+HWI-EAS443:3:51:925:1150#0/1
aaaa`aa`^aa^_Waa]`Z^^^Ya_] ^BBBBBBBBBBBB
@HWI-EAS443:3:51:940:1020#0/1
GGAAAAGCACTTTTGCATCTTTTGGAAATGCCTCAAGAG
+HWI-EAS443:3:51:940:1020#0/1
_bab_X`aa]baaaaYU^^aaaaaaaabaaa^_aY_X`^a
@HWI-EAS443:3:51:985:1837#0/1
CTTTTGCATCTTTTGGAAATGCCTCAAGAGTTGGTGCAT
+HWI-EAS443:3:51:985:1837#0/1
a_[Y]b`]babba```baaaaYT`_aa`aa`aaa¥bU`a
@HWI-EAS443:3:52:1000:1376#0/1
AGAGAATAAAAGAACTGAGAGATCTAATGTCGCAGTCCCG
+HWI-EAS443:3:52:1000:1376#0/1
aaab`abaa__a^a^`a¥__aYa_ba`aa_Y^`__W¥^¥`
@HWI-EAS443:3:52:1002:423#0/1
ATCTCATTGCCATCATCCACTTCATTCTGAGTGCGGGGTT
+HWI-EAS443:3:52:1002:423#0/1
NZSNSVS]Z]S[` [¥[UU^¥M^_]Z_^]_RZL¥XZVNY
@HWI-EAS443:3:52:1017:1574#0/1
AAAGAAGTGAAGATCTAATGTCGCAGTCCCGCACTCGCG
+HWI-EAS443:3:52:1017:1574#0/1
`a]__`aZT^a¥Z`^`a_a`¥SHSY`SU`¥a[T]____^`
@HWI-EAS443:3:52:1019:1461#0/1
GTGGGTTCACTTTCAAAGGACAAGCGGATCATCAGTCAA
+HWI-EAS443:3:52:1019:1461#0/1
]^a`^R^]^]aaa`]`_`_a]_a^a[a^Ua]a`ZaaH____
@HWI-EAS443:3:52:103:1975#0/1
AATTGGGCAAGGGGACGTAGTGTGGTAATGAAACGAAAA
+HWI-EAS443:3:52:103:1975#0/1
]ab_]aa__^bSVa`^[_¥R^W`a^^X_^a¥Z_bR]¥^`a
@HWI-EAS443:3:52:1058:1298#0/1
GAAGAGCAACAGCTATTCTCAGAAAGGCAACCAGGAGATT
+HWI-EAS443:3:52:1058:1298#0/1
aaabaabba`aa^aaaaa`aaa` ``YW¥a[0_a_Q_[__
@HWI-EAS443:3:52:1061:1275#0/1
CTAATGTCGCAGTCCCGCACTCGCGAGATACTCACTAAGA
+HWI-EAS443:3:52:1061:1275#0/1
aba^`bab_` `aaaa`Ub____a` `` [a`^_]a_a_a`a_a
@HWI-EAS443:3:52:1070:1271#0/1
GACTCCACCCAGATGTGCCTTCATCTGGATCTTCAGTCA
+HWI-EAS443:3:52:1070:1271#0/1
ababaabab`bab`aa`] [_`b_ab_aaaaabaaaa_`a
@HWI-EAS443:3:52:1111:1631#0/1
AGGGGACGTAGTGTGGTAATGAAACGAAACGGGACTCT
+HWI-EAS443:3:52:1111:1631#0/1
abab` `ab]`_¥ba`baX^a^^Za_G^` `a`V]a`SMVV^

@HWI-EAS443:3:52:1123:1752#0/1
CTGACTCAGGGCCATTGATCTCCCACATCATTGATGACGA
+HWI-EAS443:3:52:1123:1752#0/1
abbaaabaaaa`]aaaaa`a`_`a`aa¥`a_aa_a_Xa^
@HWI-EAS443:3:52:1126:27#0/1
AAAAGAAGTCTGAGATCTAATGTCGCAGTCCCGCACTCGC
+HWI-EAS443:3:52:1126:27#0/1
V]VaWaSU`_[a`bb^T``a]bTN^Z`aVW¥Y[VWZ^BBB
@HWI-EAS443:3:52:1137:201#0/1
CGCGAGATACTCACTAAGACCACTGTGGACCATATGGCCA
+HWI-EAS443:3:52:1137:201#0/1
_b`bab_bb^babaaabba_```ab`a_^^`^`^`aabTRa
@HWI-EAS443:3:52:1138:232#0/1
CACAGTGGTCTTAGTGAGTATCTCGCGAGTCCGGGACTGC
+HWI-EAS443:3:52:1138:232#0/1
abbb`]```^baab``abaa_b_V_VZZTYZG¥``]XZNV
@HWI-EAS443:3:52:1140:259#0/1
AAAGAAGTCTGAGATCTAATGTCGCAGTCCCGCACTCGCG
+HWI-EAS443:3:52:1140:259#0/1
aaaa`]aaaa`b`a_aa`aa_]a`_a_VU¥¥_¥¥^W^W^
@HWI-EAS443:3:52:1141:117#0/1
AAAGAAGTCTGAGATCTAATGTCGCAGTCCCGCACTCGCG
+HWI-EAS443:3:52:1141:117#0/1
aabbaa`baabaaaa`ab_ab_____`a^^¥__ZW¥^W]Ua
@HWI-EAS443:3:52:1148:1047#0/1
CCCGTTTTCGTTTTATTACCAACTACGTCCCTTGCCC
+HWI-EAS443:3:52:1148:1047#0/1
aabbaabbababbabaaba`aa_a`ba`a`a`_`b`a_^_
@HWI-EAS443:3:52:117:892#0/1
GTCCCGTTTTCGTTTTATTACCAACTACGTCCCTTGCC
+HWI-EAS443:3:52:117:892#0/1
aaaaaaaaaaaab_aaaabaa_¥a__a_a`a`]_[T]^^_Z
@HWI-EAS443:3:52:1194:1703#0/1
TTTGGTTGCCTTGTGTAATTGAATACTGGAGAATTGCCT
+HWI-EAS443:3:52:1194:1703#0/1
abbb]_b_aa`b`]b`_baa_aa`aa`aaaa`aaaa_¥Qa
@HWI-EAS443:3:52:1212:59#0/1
AATAAAAGAAGTCTGAGATCTAATGTCGCAGTCCCGCACT
+HWI-EAS443:3:52:1212:59#0/1
]QX¥]Y¥]OZ_ab]a]aSXHa]T¥Y¥ZXY¥_RT__SUYZY
@HWI-EAS443:3:52:1216:849#0/1
AAAGAAGTCTGAGATCTAATGTCGCAGTCCCGCACTCGCG
+HWI-EAS443:3:52:1216:849#0/1
^a```a`b```aaaa_aaab^``[^^^`^`_aZaa`_^_
@HWI-EAS443:3:52:1248:829#0/1
GAATTGCCTCTTACCAGTATCCTCAACCCTGATCCTCTCA
+HWI-EAS443:3:52:1248:829#0/1
abab``aab`aaa`a`^a`^`_`aa^]X^__aY^_____
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AGGGGACGTAGTGTGGTAATGAAACGAAAACGGGACTCT

+HWI-EAS443:3:52:1256:1445#0/1
a^`b`aaaa`b¥b`aaa__` `[X` `P^__a` Saa_ZV^U_
@HWI-EAS443:3:52:1258:693#0/1
CAATTCTCCAGTATTCAATTACAACAAGGCAACCAAACGA
+HWI-EAS443:3:52:1258:693#0/1
aZa` `^`b^`__¥¥`ba` ` `bb`a`abba_aaa`_^ba_b`
@HWI-EAS443:3:52:126:481#0/1
CACCTGCATCCTTTCCAAGAACTGTAAGTCGTTTGGTTGC
+HWI-EAS443:3:52:126:481#0/1
abaaababaaaaaaaa]a` `aa^] ^__a__a`^a`_
@HWI-EAS443:3:52:1303:538#0/1
CGTACATGCTAGAAAGAGAATTGGTCCGTAACAAGGTT
+HWI-EAS443:3:52:1303:538#0/1
a_GR`_X¥a` `^UTX[]_S]SaR]OP¥_TQH^^^a]ba]a
@HWI-EAS443:3:52:1312:1490#0/1
AATTACAGCAGACAAGAGAATAATGGACATGATTCCAGAG
+HWI-EAS443:3:52:1312:1490#0/1
^b`¥^Ybbb^`aa]W`U`Z]bRa`_`a]Q_____a_VY]^`_
@HWI-EAS443:3:52:1324:806#0/1
GGGAGATCAATGGCCCTGAGTCAGTGCTAGTCAACACTTA
+HWI-EAS443:3:52:1324:806#0/1
__^^`^a¥a`aaa¥[YZa` `Z^^[[`^` [] ^[Y^Y¥W]_]
@HWI-EAS443:3:52:1343:1056#0/1
CAAAATGAGAAATCCTCTCAGGACAGCAGACTCCACCCCA
+HWI-EAS443:3:52:1343:1056#0/1
ab_bbbab`bbbb`abababbbaabaababab^[ba_` `a
@HWI-EAS443:3:52:137:196#0/1
AGAGAATAAAAGAACTGAGAGATCTAATGTGCGAGTCCCG
+HWI-EAS443:3:52:137:196#0/1
TYWYS¥_a[_Q_ `baaa^aY_SZ^a[`bbXZ_ `^ZOR[HQ
@HWI-EAS443:3:52:1384:1260#0/1
TGTTCCGCCGGCTACTGGGAGAAACCTTGTTTTACGGACC
+HWI-EAS443:3:52:1384:1260#0/1
`a`_Z_a^`^Z`a[TZ^a¥GZQY¥WVT_[S__]YN_^QWQ
@HWI-EAS443:3:52:1413:1639#0/1
TAATGTGCGAGTCCCGCACTCGCGAGATACTCACTAAGAC
+HWI-EAS443:3:52:1413:1639#0/1
^b^_bTP¥_TPZa`NSF¥UX_¥P^YYJSUW^MTRZ_BBBB
@HWI-EAS443:3:52:1423:753#0/1
GTCCCGTTTTTCGTTTCATTACCAACTACGTCCCCTTGC
+HWI-EAS443:3:52:1423:753#0/1
aaaaabaaba`¥abaaaba^_a__a_aa]a_^Y¥^__^V
@HWI-EAS443:3:52:1426:654#0/1
AAAGAACTGAGAGATCTAATGTGCGAGTCCCGCACTCGCG
+HWI-EAS443:3:52:1426:654#0/1
aaaa_` `aa`_¥b_a[`a_a_^¥]__TW¥¥_`^¥Y_^UUW
@HWI-EAS443:3:52:1462:698#0/1
CAATCCCCAGTTCTGGAAAAGCACTTTTGCATCTTTTTG
+HWI-EAS443:3:52:1462:698#0/1
^bbb]]b`bab`babbbbaa`¥aab` `ab_ab_baaaa

@HWI-EAS443:3:52:1463:1899#0/1
GGGAGAAACCTTGTTTTACGGACCAATTCTCTTTCTAGCA
+HWI-EAS443:3:52:1463:1899#0/1
ZI_aW_¥_U¥__b]Z`^Q]^ [RS]U^_RYZ``SKYaWHS
@HWI-EAS443:3:52:1476:421#0/1
AATAAAAGAACTGAGAGATCTAATGTCGCAGTCCCGCACT
+HWI-EAS443:3:52:1476:421#0/1
a`b_Y_^a_]_aa`X[TZaYaa^`a__a[_Y` [PXPQQ_U
@HWI-EAS443:3:52:1521:544#0/1
CTCGCGAGATACTCACTAAGACCACTGTGGACCATATGGC
+HWI-EAS443:3:52:1521:544#0/1
abb`bbbbaaaabbaaaba__ababZRW_T_aa¥ab`]]`
@HWI-EAS443:3:52:1541:453#0/1
ATCTCATTGCCATCATCCACTTCATTCTGAGTGC GGGGTT
+HWI-EAS443:3:52:1541:453#0/1
``^Zaaa]aaaaaaa[aa`bb__aaY_Y¥a]`^`]a¥U¥
@HWI-EAS443:3:52:1555:289#0/1
GAGATCTAATGTCGCAGTCCCGCACTCGCGAGATACTCAC
+HWI-EAS443:3:52:1555:289#0/1
0`b_Z`bbbb__¥b_ZY_]a]]``a_[````]]¥a_
@HWI-EAS443:3:52:1583:831#0/1
GTCCCGTTTTTCGTTTTATTACCAACTACGTCCCCTTGC
+HWI-EAS443:3:52:1583:831#0/1
Xaa_aba^¥]a[abY^Uaa[YD¥_Ra]_ZUa_¥SY^]TFR
@HWI-EAS443:3:52:1584:1680#0/1
AGAGAATAAAAGAACTGAGAGATCTAATGTCGCAGTCCCG
+HWI-EAS443:3:52:1584:1680#0/1
`b]aaabbbabba``aabaaba_ba_ba_^aaa_Y¥``_
@HWI-EAS443:3:52:15:649#0/1
GAGGATTTCTCATTGTTGGCAAAGAAGACAAGAGATATGG
+HWI-EAS443:3:52:15:649#0/1
a]aa^`a^]a`^^^_` [X_a_a^¥¥¥¥^^^]] [Y_^
@HWI-EAS443:3:52:1607:1372#0/1
AAAAGAACTGAGAGATCTAATGTCGCAGTCCCGCACTCGC
+HWI-EAS443:3:52:1607:1372#0/1
^Z[T_aaab``ab_aa[aaa__a` [[a`Z^^]]V[]`¥[Y
@HWI-EAS443:3:52:1609:1396#0/1
GTGTACATCTGCTCCAGCACGTCCCTTGGGTTAAGTGCA
+HWI-EAS443:3:52:1609:1396#0/1
a_aaa_baaab_a^__`b]a]b`]__aaa`a]a_]PY^`
@HWI-EAS443:3:52:1671:1178#0/1
TATCAACTCTCCTTATTCTTAACTTGATTTCTGAAGTG
+HWI-EAS443:3:52:1671:1178#0/1
aaa^^`^V¥_[P¥U]a^YYa`^XPR¥]][^aYT_`XUXRT
@HWI-EAS443:3:52:1697:647#0/1
CCCGTTTTTCGTTTCATTACCAACTACGTCCCCTTGCCC
+HWI-EAS443:3:52:1697:647#0/1
a_aaZ^bb`VHZba^_[¥Y[a_Y_^`P_^`¥ZU¥0JV]¥
@HWI-EAS443:3:52:1702:511#0/1
GTGGAGTCTGCTGCCTGAGAGGATTTCTCATTGTTGGCA

+HWI-EAS443:3:52:1702:511#0/1
[U¥_]X]b]aa^XSa_bP`ZWXZ` `aZ[P_`ba` [aNKZ
@HWI-EAS443:3:52:170:215#0/1
CTAATGTCGCAGTCCCGCACTCGCGAGATACTACTAAGA
+HWI-EAS443:3:52:170:215#0/1
abbabbbbaa_aaaaa__aaa_a[`T]_ ^¥WP^^_ [_^
@HWI-EAS443:3:52:1741:1894#0/1
CTGTGGACCATATGGCCATAATCAAAAAGTACACATCAGG
+HWI-EAS443:3:52:1741:1894#0/1
abb__aa`aaa`aaaZ`^_]`_]R`_`_¥TWY_S]_V]]_
@HWI-EAS443:3:52:1744:1331#0/1
AGAGAATAAAAGAACTGAGAGATCTAATGTCGCAGTCCCG
+HWI-EAS443:3:52:1744:1331#0/1
` `a`]^babba]_Z]ba^¥^aba^aaaa]ZY[_]WVXZT]
@HWI-EAS443:3:52:1754:343#0/1
CCCGTTTTTCGTTTCATTACCAACTACGTCCCTTGCCC
+HWI-EAS443:3:52:1754:343#0/1
aaaa`ababaaaaababaaaba^¥a^X^^]`¥] []VT]
@HWI-EAS443:3:52:1772:1897#0/1
ATTCCAGAGAGGAATGAACAAGGACAAACCCTCTGGAGCA
+HWI-EAS443:3:52:1772:1897#0/1
aaaaa`aa__aa_aa_^a¥`_`_____^] ^__^_ ^X]]^
@HWI-EAS443:3:52:1780:1386#0/1
AGAATTCACAATGGTTGGGAGAAGAGCAACAGCTATTCTC
+HWI-EAS443:3:52:1780:1386#0/1
a¥Y_`¥_aa_`Z[a¥aS]L[W^¥[_Y]Z¥a^W¥ZX_^Q¥X
@HWI-EAS443:3:52:1790:540#0/1
TGGGTTCACTTTCAAAGGACAAGCGGATCATCAGTCAAG
+HWI-EAS443:3:52:1790:540#0/1
[_bb^bab`bbbbbbbabbbbabbbba^bbabb`abba
@HWI-EAS443:3:52:18:1654#0/1
GTCCCGTTTTTCGTTTCATTACCAACTACGTCCCTTGCC
+HWI-EAS443:3:52:18:1654#0/1
aab¥`b_Z` `Y^YZ` ` `] []UVT¥_aa_YV]VZZ_Z¥WZS
@HWI-EAS443:3:52:198:1272#0/1
AGAGAATAAAAGAACTGAGAGATCTAATGTCGCAGTCCCG
+HWI-EAS443:3:52:198:1272#0/1
abbb`bbba_ba`aaba`aaaaaaa`ab_aa]`__a^__
@HWI-EAS443:3:52:219:1225#0/1
CGCACTCGCGAGATACTACTAAGACCACTGTGGACCATA
+HWI-EAS443:3:52:219:1225#0/1
a` `Z¥aaaa` ` `a`__`_^_a^YX¥`^^_ [] [^^^Z[[
@HWI-EAS443:3:52:21:1159#0/1
CTAATGTCGCAGTCCCGCACTCGCGAGATACTACTAAGA
+HWI-EAS443:3:52:21:1159#0/1
__VXY`aa` [Y^]a^a`]H]RX]VZM¥YVYX]a¥^X[SYV
@HWI-EAS443:3:52:23:555#0/1
CTGCTGTCTGAGAGATTTCTCATTGCGCAAAGAAGA
+HWI-EAS443:3:52:23:555#0/1
aabbababbabababbaabaaaaabaaa`aa`¥aaa` `aa

@HWI-EAS443:3:52:245:226#0/1
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+HWI-EAS443:3:52:245:226#0/1
`_a`aaabba`_ba`baaa`_`aa[WZ_Y]`_`¥`^`
@HWI-EAS443:3:52:249:286#0/1
CTCTTGAAATGTGCCACAGCACACAGATTGGAGGAGTAA
+HWI-EAS443:3:52:249:286#0/1
ababba^aaabbaaaabaabaa`a^aa``aaa_aa^`[[^
@HWI-EAS443:3:52:24:2026#0/1
GGTCCACAGTGGTCTTAGTGAGTATCTCGCGAGTGCGGGA
+HWI-EAS443:3:52:24:2026#0/1
`aabbb_U[^abQb]`_`b`^`_HQZ¥]¥]aaZJ`_¥¥X``]M
@HWI-EAS443:3:52:255:1966#0/1
ATTGGGTATCTCATTGCCATCATCCACTTCATTCTGAGTG
+HWI-EAS443:3:52:255:1966#0/1
_baab_FVba`[^a`baaY_aWU^`[^`^`^]a__aZ_]`^
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+HWI-EAS443:3:52:265:859#0/1
][a`¥]Y`^aaa_Y¥U^a^`[^`aabbaaaXTZN`^aaa^[[
@HWI-EAS443:3:52:272:1971#0/1
CCCGTTTTCGTTTTATTACCAACTACGTCCCCTTGCCC
+HWI-EAS443:3:52:272:1971#0/1
`aab_aaab`_aaaa`aaaa`_`^```Y]`_`^`_YWUZ
@HWI-EAS443:3:52:277:398#0/1
CGTTTTCGTTTTATTACCAACTACGTCCCCTTGCCCAA
+HWI-EAS443:3:52:277:398#0/1
ababbbbaabbabbbbab`baaaa`aba`_aa`_aa^S[_
@HWI-EAS443:3:52:280:431#0/1
AATAAAAGAACTGAGAGATCTAATGTCGCAGTCCCGCACT
+HWI-EAS443:3:52:280:431#0/1
aWaSS_Ybaabbb[aa`Taabaabb`a``aaK¥_]a]F]`
@HWI-EAS443:3:52:291:1132#0/1
GAGAATAAAAGAACTGAGAGATCTAATGTCGCAGTCCCGC
+HWI-EAS443:3:52:291:1132#0/1
a`aaaaaaaa`a`_a`a`Y`a_aa^`aX]`_`_[Z_]`^`
@HWI-EAS443:3:52:30:1548#0/1
AGTTCCTGATTATCCATTGATAAGTGTGACTAGCACTGA
+HWI-EAS443:3:52:30:1548#0/1
YaQ^^^^¥]`^]a]YI_[R[^Y^QaZY`[YV]XTRUTW]
@HWI-EAS443:3:52:331:399#0/1
AAAAGAACTGAGAGATCTAATGTCGCAGTCCCGCACTCGC
+HWI-EAS443:3:52:331:399#0/1
aa^a`_a^aa¥a`a_a_b_aaa]_a__a]]]`^]a^U_`^
@HWI-EAS443:3:52:356:18#0/1
GAACCCCGCACTCAGAATGAAGTGGATGATGGCAATGAGA
+HWI-EAS443:3:52:356:18#0/1
a`a^Y`_`¥Z`_`_aW[Z^[¥aV¥`MDVST^^VVG_Y_X_T
@HWI-EAS443:3:52:365:245#0/1
GTCCGTAACAAGGTTTCTCCCAGTAGCCGCGGAACAG

@HWI-EAS443:3:52:565:1748#0/1
AAAGAAGTCTAATGTCGCAGTCCCGCACTCGCG
+HWI-EAS443:3:52:565:1748#0/1
aaa^¥aaaa_`^]____`__dW`__`^Z[____]PWUUTU^
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CTTGTTTTACGGACCAATTCTTTCTAGCATGTACGCCA
+HWI-EAS443:3:52:568:464#0/1
`R[ab`^¥QR`^¥WQ_b¥UY[ab_`][[`I_¥Taa¥``Z
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ATCTAATGTCGCAGTCCCGCACTCGCGAGATACTCACTAA
+HWI-EAS443:3:52:593:1111#0/1
a_aa_`a_HZ_aaZHW]^aaR]U_X[]^¥NV[^^__^YX]
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TGAAACATGGTACCTTCGGCCCTGTCCACTTCAGAAATCA
+HWI-EAS443:3:52:604:193#0/1
abbaaaaab`_`aaaa_`]`_`ZX¥^W_^Y`^^a_^RZ
@HWI-EAS443:3:52:604:691#0/1
GCAGTGTGAGACCCATTAGCATCTCTTGGAAATGT
+HWI-EAS443:3:52:604:691#0/1
a`XaZ_^[LY¥¥]ZSYN^YRVORU[WVSVT[ZZKSVWZXP
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+HWI-EAS443:3:52:610:272#0/1
aa^aa`a_aba`_aaaba`aa`a]_Y_`a`dW_a_¥a[
@HWI-EAS443:3:52:625:144#0/1
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+HWI-EAS443:3:52:625:144#0/1
aaaabbabbbbaa_bbaab`aaaaUW`_^_¥¥`Z__aY_U
@HWI-EAS443:3:52:64:1643#0/1
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+HWI-EAS443:3:52:64:1643#0/1
aaZbZ]bab]aa`Z]a^a__WaSaab`aa____]_aX_[]_
@HWI-EAS443:3:52:676:980#0/1
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+HWI-EAS443:3:52:676:980#0/1
a^_a`aZ`]`[a`X^babbXS_Z_]Q_GUQS¥][DROO`Z
@HWI-EAS443:3:52:694:337#0/1
GGAAAGGATGCAGGTGCATTGACTGAAGATCCAGATGAAG
+HWI-EAS443:3:52:694:337#0/1
aa[`Ya`_Z`RVaYR]TX_`_ZV^_¥^[VUUW[_V[^R[W
@HWI-EAS443:3:52:702:1787#0/1
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+HWI-EAS443:3:52:702:1787#0/1
a)`Y`^^[UZ]aa`__YZXKTY__`RUUTZ_VFOX[Q[Z
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GATCTTGACCATTGAATTTTCACAATTTCCAGTTCCT
+HWI-EAS443:3:52:716:999#0/1
aa]b`a]b]a^baaaa_aa_`_a^Waa`^aa]_[_^a
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+HWI-EAS443:3:52:733:553#0/1
aaa`aaaa`baaaaaab_`a`]\`Z^_[¥]Z¥`_aX^[\` [
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+HWI-EAS443:3:52:78:1864#0/1
[I^_`a]]a^]U^_`[[Ua_[_¥Z`aQW_]U^¥^[XNX_
@HWI-EAS443:3:52:795:300#0/1
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+HWI-EAS443:3:52:795:300#0/1
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@HWI-EAS443:3:52:799:1104#0/1
CTACCACTCTCTCCGTGCTGGAGTATTCATCTACTCCCAT
+HWI-EAS443:3:52:799:1104#0/1
`^aaaa`baaa`__`a`aa_a¥^aa[\`]\`____ZUVa
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GCTTGTTCTCAGTTGGATTCTGTCTAAGGATGTCCACCA
+HWI-EAS443:3:52:801:896#0/1
`b`aaaa`^aab_`aa`_a_aa__aa_a`_^`W[_^M[_
@HWI-EAS443:3:52:821:1686#0/1
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+HWI-EAS443:3:52:821:1686#0/1
`S````]a_aa_`^a_`a]UV[[]_`¥_^^^_RZ`W^]]]
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+HWI-EAS443:3:52:83:1690#0/1
a¥abab[_ba]aZZZ^`b[b_a``a¥^]_a_H_]¥_YP]a
@HWI-EAS443:3:52:860:707#0/1
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+HWI-EAS443:3:52:860:707#0/1
aabb`aabbaaaaa`aa_aa`aa_``¥^¥``aZ_^_X^
@HWI-EAS443:3:52:866:641#0/1
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+HWI-EAS443:3:52:866:641#0/1
aaa`baabaababbaabaa]Ya`_`_aa`a__[]_`aa]
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abaaaaab`babbaaaa_a__aaaa__a]aa_`__`_a`
@HWI-EAS443:3:52:930:1658#0/1
AATAAAGAAGTGGAGATCTAATGTCGCAGTCCCGCACT
+HWI-EAS443:3:52:930:1658#0/1
J`Ub`]aaWU¥b`ba`[^SU_`aabXaba]¥_]Y_W_W]a
@HWI-EAS443:3:52:94:1941#0/1
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+HWI-EAS443:3:52:94:1941#0/1
aaba[\`a`aaa]a_aa^abaaa]]a^_[Z^____]]]]X^X
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+HWI-EAS443:3:52:95:1571#0/1
aa`Z]`aa¥aaaa_`aaaY`UXa`aY`X_YW____`[ZPZ^

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+HWI-EAS443:3:53:1035:657#0/1
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@HWI-EAS443:3:53:1054:579#0/1
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+HWI-EAS443:3:53:1054:579#0/1
ab``^b_aa[abXaaa`bZaabaa`a[a`a`ba``aa^`
@HWI-EAS443:3:53:1059:140#0/1
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+HWI-EAS443:3:53:1059:140#0/1
aaaa`aY¥Vba__`X[_`a`a`abaaaaabV``aaWR][
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+HWI-EAS443:3:53:1067:527#0/1
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@HWI-EAS443:3:53:1100:463#0/1
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+HWI-EAS443:3:53:1100:463#0/1
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@HWI-EAS443:3:53:1113:1090#0/1
CTAATGTGCTAATTGGGCAAGGGACGTAGTGTTGGTAAT
+HWI-EAS443:3:53:1113:1090#0/1
ab^TVOWb[aa¥aZa`〕`_RZ]``^`_a`^Pa^a__Y__¥
@HWI-EAS443:3:53:112:1506#0/1
TCCCGTTTTTCGTTTCATTACCAACTACGTCCCCTTGCC
+HWI-EAS443:3:53:112:1506#0/1
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+HWI-EAS443:3:53:1161:1759#0/1
aaa[bb]Xaab`a^aaba_R^babb]]][Q_b]X_I^a`_Z
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+HWI-EAS443:3:53:1162:1151#0/1
T^[X[ab[`[[[[[``b`b`aabaab`bb[]]`[¥UWaSaX
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+HWI-EAS443:3:53:1172:863#0/1
`]]Z¥WbaZ¥[b_^Ta^bb`a``XMQ^a`_][PTX]a``QP
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+HWI-EAS443:3:53:1206:1086#0/1
aaa`^^`]aaaZX¥¥[XT`W0¥^aa_XUX^`R¥SPZ[]LY
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+HWI-EAS443:3:53:1224:361#0/1
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@HWI-EAS443:3:53:1236:1310#0/1
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+HWI-EAS443:3:53:1236:1310#0/1
]`babU`__a`aaU`[_`a_aUa_]X_¥[`]__`0
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+HWI-EAS443:3:53:1292:421#0/1
aa[``ba`b_b^_Z_`[^Va`U^_a¥`a_UY`Va[`[G
@HWI-EAS443:3:53:1321:1754#0/1
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+HWI-EAS443:3:53:1321:1754#0/1
`]^a`a`b[TW¥aa``aaa][aYa¥_aaYLQ`__UVL[
@HWI-EAS443:3:53:1333:1200#0/1
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+HWI-EAS443:3:53:1333:1200#0/1
Zaab_`X^`a]`a^^aba__PT_aaa^`_a¥¥]a`V`_V
@HWI-EAS443:3:53:134:712#0/1
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+HWI-EAS443:3:53:134:712#0/1
a`a¥XZ`^^_aa]``a`_`abY_a][_Q[VR]NY^^[SU
@HWI-EAS443:3:53:1376:1719#0/1
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+HWI-EAS443:3:53:1376:1719#0/1
ab`aba`^abaa]`_aaaa_aa_S_``^[^XZZ]`XZ^U
@HWI-EAS443:3:53:1487:789#0/1
TTCTCTTTCTAGCATGTACGCCACCATCAAGGGAGCAATT
+HWI-EAS443:3:53:1487:789#0/1
V¥QR_`Maab`[Xaa`Z¥a`YIb^^YT^aab_Ra]`_a_
@HWI-EAS443:3:53:148:1274#0/1
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+HWI-EAS443:3:53:148:1274#0/1
aaaaY`aaaaaa^_aa`a^[_a^¥aa]_]¥`¥`¥¥^
@HWI-EAS443:3:53:1528:675#0/1
ATCTAATGTGCGCAGTCCCGCACTCGCGAGATACTCACTAA
+HWI-EAS443:3:53:1528:675#0/1
ab`ababb¥`X_a]aaa_¥0Zaaa]aaaa[`aa`_¥__
@HWI-EAS443:3:53:1616:684#0/1
TCCCGTTTTTCGTTTCATTACCAACTACGTTCCCTTGCC
+HWI-EAS443:3:53:1616:684#0/1
aaaab`abb_`]aa`bbba_`aaaa_aa^^`_[_`_aZR¥]
@HWI-EAS443:3:53:1653:1667#0/1
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+HWI-EAS443:3:53:1653:1667#0/1
a_¥^_X¥_S¥Z[OGNT¥`YSV`U¥WU]XWS¥UUWU¥QUUV
@HWI-EAS443:3:53:1672:1237#0/1
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+HWI-EAS443:3:53:1672:1237#0/1
aa_bbbbbbababb_bbbbb_baababa`baaZ¥`a_`Y`V
@HWI-EAS443:3:53:1696:1068#0/1
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+HWI-EAS443:3:53:1696:1068#0/1
abaaabbaa`]`QTZXQ^ZUZ`aa[U_]VW`V`_S^WT[Y

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+HWI-EAS443:3:53:183:954#0/1
aa_aV[^`b`aa`Zaab]Q]aaa`Z¥^¥ZV¥¥_S`¥Z
@HWI-EAS443:3:53:184:1818#0/1
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+HWI-EAS443:3:53:184:1818#0/1
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AAAAGAAGTGAAGATCTAATGTCGCAGTCCCGCACTCGC
+HWI-EAS443:3:53:200:354#0/1
aaa[b[abbaaaaaaaaa_ab¥a`_aa]____^_]____]_
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CGCACTCGCGAGATACTCACTAAGACCACTGTGGACCATA
+HWI-EAS443:3:53:226:1696#0/1
_X_aa^`aaa_]^^`aaa_aaZ^^_]aa]]N`]]a]__Y
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+HWI-EAS443:3:53:234:879#0/1
abab]babbbbabbbbaab`aaabbaa_ab`a__aa¥aa^
@HWI-EAS443:3:53:241:1278#0/1
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+HWI-EAS443:3:53:241:1278#0/1
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@HWI-EAS443:3:53:265:1680#0/1
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+HWI-EAS443:3:53:265:1680#0/1
aaabba`ababbaa¥aa`a^_a_aaZ]^`_`aa]^`V
@HWI-EAS443:3:53:273:418#0/1
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+HWI-EAS443:3:53:273:418#0/1
aabaabbaaaba`abaaaa`aba`aa]aa_aaY`__^^
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+HWI-EAS443:3:53:27:733#0/1
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@HWI-EAS443:3:53:284:1220#0/1
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+HWI-EAS443:3:53:284:1220#0/1
a`YTT^]U^YY]_aY^_`a^^`¥`UYVZ^_[¥NL^`PZ[
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+HWI-EAS443:3:53:301:67#0/1
`bbaa`abaaaaabb`aaY`abb_a_aa]_b``__b`_a
@HWI-EAS443:3:53:311:1542#0/1
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+HWI-EAS443:3:53:311:1542#0/1
`X[_H[ZaaaaaSX_]aaaV^¥a`^_a`V]a_]aU[¥
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+HWI-EAS443:3:53:314:372#0/1
`b_`aa`aa`bVaZb`a`¥VbVaa_¥bV[Z_N_V^`^]¥_
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@HWI-EAS443:3:53:344:735#0/1
ATGAAGGCACATCTGGGGTGGAGTCTGCTGTCCTGAGAGG
+HWI-EAS443:3:53:344:735#0/1
aa¥aaa_a`[a`¥a]a``V]`^`¥Raa¥_[ST¥Z^Z^Q`]
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+HWI-EAS443:3:53:416:864#0/1
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@HWI-EAS443:3:53:445:240#0/1
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+HWI-EAS443:3:53:445:240#0/1
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@HWI-EAS443:3:53:448:838#0/1
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+HWI-EAS443:3:53:448:838#0/1
]aabaabbbbbb^`aa`bbabaababaabbbaba`_a____
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+HWI-EAS443:3:53:459:42#0/1
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@HWI-EAS443:3:53:472:18#0/1
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+HWI-EAS443:3:53:472:18#0/1
``V]¥_IZ]_^_¥R¥¥]^`_`a_Z`^SS`^W]bb^G[
@HWI-EAS443:3:53:499:1304#0/1
AAACAAACGATGCTGGATCAGACCGAGTGATGGTATCACC
+HWI-EAS443:3:53:499:1304#0/1
aba^a`bab`ba`a`a^X_aaa_a`aaUbaaaXWZa¥_^[
@HWI-EAS443:3:53:512:1891#0/1
GCTGGGAGCAGATGTACTCCAGGAGGAGAAGTGAGAAA
+HWI-EAS443:3:53:512:1891#0/1
`^Z__a^a`[XV]¥I_X]_YTT^T¥^[_¥Y`T`W^VYN
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AGAGGATTTCTCATTTTGGGCAAAGAAGACAAGAGATATG
+HWI-EAS443:3:53:542:1286#0/1
aaabaabbaaaaaabaaaa_a`aaa`aaa`a^a_a`_a``
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GAGGATTTCTCATTTTGGGCAAAGAAGACAAGAGATATGG
+HWI-EAS443:3:53:542:560#0/1
ababaaabaa`aaaabbaa__a`aa^b`aa`_`a`]HY`¥
@HWI-EAS443:3:53:553:1553#0/1
GAGATCTAATGTCGCAGTCCCGCACTCGCGAGATACTCAC
+HWI-EAS443:3:53:553:1553#0/1
````abb`\_``Zaaabb^baabaaaaX``a`\_Z\_aa¥`¥

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+HWI-EAS443:3:53:581:130#0/1  
ab`ab\_abT`\_\_¥\_^`a¥a¥`¥\_¥¥¥W¥UX\_\_^¥U¥^W  
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+HWI-EAS443:3:53:595:900#0/1  
aab\_abbbb`aaaaabaaaaaaaa`aaaaaa`aa\_a\_aaa  
@HWI-EAS443:3:53:599:602#0/1  
GCTGTAATTGGGTATCTCATTGCCATCATCCACTTCATTC  
+HWI-EAS443:3:53:599:602#0/1  
a^ab[SWaaa`]Wa`\_YY[YXQY^Z¥`X^\_] ^XNXRYZU  
@HWI-EAS443:3:53:59:926#0/1  
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+HWI-EAS443:3:53:59:926#0/1  
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@HWI-EAS443:3:53:672:394#0/1  
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+HWI-EAS443:3:53:672:394#0/1  
aaa`baabbabaab`abab\_\_a`¥aaa`\_`b¥]`^[a]a]]  
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+HWI-EAS443:3:53:745:1078#0/1  
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+HWI-EAS443:3:53:758:1542#0/1  
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+HWI-EAS443:3:53:786:1095#0/1  
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+HWI-EAS443:3:54:1026:84#0/1  
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+HWI-EAS443:3:54:117:902#0/1  
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+HWI-EAS443:3:54:1222:1366#0/1  
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+HWI-EAS443:3:54:1319:1122#0/1  
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^]\_\_^`\_a[]a¥`a\_aa` ``b`\_\_a`\_a^^a^]VUa]`a¥  
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[V\_`b`Yba¥a^b]^`abb\_Z^]b^]¥aaaa`\_aa][^a^a



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+HWI-EAS443:3:54:460:1641#0/1  
aa\_a`\_bQabY`¥aa`U\_a`a\_a`Z\_`a`U\_]ZS¥^W¥S  
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+HWI-EAS443:3:54:619:1326#0/1  
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+HWI-EAS443:3:54:674:707#0/1  
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+HWI-EAS443:3:54:682:1627#0/1  
aaa`a\_aaaa```\_^\_aaaaa^^`\_]\_¥¥¥\_Q]\_¥¥¥¥¥\_  
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+HWI-EAS443:3:54:702:549#0/1  
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+HWI-EAS443:3:54:746:679#0/1  
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+HWI-EAS443:3:54:757:1469#0/1  
\_¥¥\_]`X¥S]\_^XR^Y^Za```^^`]¥ZZ]¥YXSXVMM[  
@HWI-EAS443:3:54:767:1496#0/1  
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+HWI-EAS443:3:54:767:1496#0/1  
`X\_bab^bbbbbababaaabb^Ya]`^T`^`\_]SQ`Xa¥]  
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+HWI-EAS443:3:54:791:1030#0/1  
W¥\_Waa`¥\_babbbb\_\_\_\_\_Wa\_abb`abbab[``aa``aa  
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+HWI-EAS443:3:54:797:1996#0/1  
\_aa[ ]`ZaaaabT¥[0a\_aa`V`a\_a]\_\_ZTNLTFUVZ[\_  
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+HWI-EAS443:3:54:815:1530#0/1  
a\_a¥aaaU`\_aU`Za```\_]\_[^``^¥a\_a]a\_\_a¥`\_P[TU  
@HWI-EAS443:3:54:863:871#0/1  
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+HWI-EAS443:3:54:863:871#0/1  
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@HWI-EAS443:3:54:906:460#0/1  
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+HWI-EAS443:3:54:906:460#0/1  
aa]]^P`\_]a`WS[Z`WM¥`\_a^U¥0\_S^XSZ^aV`QF^`  
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+HWI-EAS443:3:54:933:449#0/1  
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+HWI-EAS443:3:54:955:537#0/1  
aa\_`b```]Xaaaa^PY¥¥]Za\_V¥RY^[SX`\_YRZVTTXF  
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+HWI-EAS443:3:54:959:1048#0/1  
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+HWI-EAS443:3:54:991:248#0/1  
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+HWI-EAS443:3:55:1000:294#0/1  
aa\_^\_a`¥aa^a`\_Xa]\_a[`\_a`a`¥Y\_^]]a`U\_a^\_^  
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+HWI-EAS443:3:55:1103:242#0/1  
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+HWI-EAS443:3:55:1127:1224#0/1  
OX`abaaabba[````\_`aaaa`ZaUJabWFZ]T`\_\_`Ra  
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+HWI-EAS443:3:55:1140:742#0/1  
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+HWI-EAS443:3:55:1191:2031#0/1  
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+HWI-EAS443:3:55:119:1791#0/1  
\_VHY`^TX]Za]aS¥]X`\_^Y¥]WZ[Z^¥]¥[¥[X]]W]V  
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+HWI-EAS443:3:55:1208:929#0/1  
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@HWI-EAS443:3:55:1229:657#0/1  
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+HWI-EAS443:3:55:1229:657#0/1  
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+HWI-EAS443:3:55:1235:1539#0/1  
aa`a`b``aaa[aa`b`aaaaa\_baaaaYa`\_\_\_\_]^`  
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+HWI-EAS443:3:55:123:360#0/1  
aaa\_aaaaa\_`\_a`\_aaY]^`^`aW¥\_\_`^¥¥[Z\_¥^V\_W  
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+HWI-EAS443:3:55:1246:1141#0/1  
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+HWI-EAS443:3:55:1259:718#0/1  
aba¥0U]a¥`b`bY]PSU\_OGOQa^a\_Q^XY`\_S[¥`R\_H  
@HWI-EAS443:3:55:1279:329#0/1  
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+HWI-EAS443:3:55:1279:329#0/1  
a`Z\_aZ]^Ta]^\_abaZabaa]X]¥RZWOGT`[\_UQF^  
@HWI-EAS443:3:55:1288:1236#0/1  
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+HWI-EAS443:3:55:1288:1236#0/1  
aaaaaaaa^a`aa`\_a^U^`Z[\_`\_^\_]\_\_]\_\_^W\_  
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+HWI-EAS443:3:55:1296:1180#0/1  
aa`]Z\_`]X]^¥]^NLZT¥TSP]QXVV]^Z[[UWWZTXZ  
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+HWI-EAS443:3:55:1303:380#0/1  
``][```\_`\_aaa¥`\_`a`\_[]^a^a\_Y^W[`X^\_]V\_\_  
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a\_UFLbaa]a\_aN`R[]`\_`ZM]\_T[W^`YWRTNV][TSU  
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+HWI-EAS443:3:55:1400:594#0/1  
\_`a^abaab\_aaaa^`^¥YQ`Ja`b^aX]XU`VW[\_R\_`]  
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+HWI-EAS443:3:55:1481:1039#0/1  
ZaY[X\_\_^aa`Z[aKZ`^Q`bXSa\_S[FXU\_]a`][]ZT\_  
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+HWI-EAS443:3:55:1524:698#0/1  
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+HWI-EAS443:3:55:152:1639#0/1  
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``^`[\_abbbb^a[^b`\_`a^[EUY]\_UZaR]T¥`¥GZa  
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+HWI-EAS443:3:55:1582:1533#0/1  
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+HWI-EAS443:3:55:1700:771#0/1  
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+HWI-EAS443:3:55:20:1057#0/1  
a¥^]aaVZY\_`a]TLYZ^`[\_`\_`W\_[]`\_^]P]X^\_^Z\_  
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+HWI-EAS443:3:55:241:1743#0/1  
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+HWI-EAS443:3:55:256:1005#0/1  
aa`\_]\_0]^aab[aa`aa]]^aa`\_aY\_[¥aS[`\_\_\_\_^\_[Y  
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+HWI-EAS443:3:55:258:708#0/1  
aa`¥baaaaa`aaa`aaaaaaa\_`a`a^\_\_`^[^`¥a\_  
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+HWI-EAS443:3:55:279:1655#0/1  
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+HWI-EAS443:3:55:303:222#0/1  
a```b`aa`b^`\_\_\_a`\_`\_`^W\_]\_a^`V^WTV¥]]V  
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+HWI-EAS443:3:55:39:944#0/1  
]J\_\_U\_]`a\_]aa`a\_\_`^^a\_[`aaW^^^]¥S[Y[W[Q[  
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+HWI-EAS443:3:55:452:55#0/1
`_¥Q_ba]^a]]a^aaVaa^^[^]Y¥VQWa][[_JJUQVS
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GCGAGATACTACTAAGACCACTGTGGACCATATGGCCAT
+HWI-EAS443:3:55:45:386#0/1
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+HWI-EAS443:3:55:516:848#0/1
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+HWI-EAS443:3:55:52:426#0/1
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+HWI-EAS443:3:55:553:42#0/1
V_¥_aab_T_a]_ba]_a`b_¥¥b^``aa^]Za_aYZ^]Y
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a`a^_``Y`]`a]Z¥^aZ`^TZVNV¥WaY[aa]]]a_¥a_
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+HWI-EAS443:3:55:769:1063#0/1
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@HWI-EAS443:3:55:78:1062#0/1
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+HWI-EAS443:3:55:78:1062#0/1
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+HWI-EAS443:3:55:849:1314#0/1
abbaaaaabbaaaaa`b`aaaaa]aa_a]`aaY`a_]_`
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aa_``aaa__a]a_a[_Z`_Z_]^_`_`[[^]U[aV]_Y
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+HWI-EAS443:3:56:1138:1465#0/1
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+HWI-EAS443:3:56:1186:1238#0/1
¥`_X_a[Y]baa`^`bZ]WU_`^¥¥a`^_Z_a`^^^a
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+HWI-EAS443:3:56:122:38#0/1
a¥X_a`^^a^V_`_a__^YWV[^]SUZSPT[W^ZLTZZU
@HWI-EAS443:3:56:1255:915#0/1
AATTGGGCAAGGGACGTAGTGTGGTAATGAAACGAAAA
+HWI-EAS443:3:56:1255:915#0/1
_b_bbbbababbbba_a`a`^[babaa^Ya]¥]a`Ia[`aa
@HWI-EAS443:3:56:127:1660#0/1
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+HWI-EAS443:3:56:127:1660#0/1
`aaaW`^^aa]Y`a^_aa_a^a_^a^¥`YY[U^__]_
@HWI-EAS443:3:56:1304:1146#0/1
GCTCCACCAGAACAGAGTAGGATGCAATTTTCCTCATTGA
+HWI-EAS443:3:56:1304:1146#0/1
a_a]^`aa`__a_]`_`Xaaa^a_]YVa`_a¥P`]S`^VZ
@HWI-EAS443:3:56:1316:666#0/1
GAGATCTAATGTCGCAGTCCCGCACTCGCGAGATACTCAC
+HWI-EAS443:3:56:1316:666#0/1
a_[]WUXa_¥`_W]0`^PQUURUXP^[YSQM]WGWB BBBB
@HWI-EAS443:3:56:131:489#0/1
CATCTGCTCCAGCACGTCCCTTGGGTTAAGTGCAACACT

+HWI-EAS443:3:56:131:489#0/1
`abaabaaaa`aa`Z^¥[_Y]]`¥__W`W_[¥]¥¥W_
@HWI-EAS443:3:56:1339:414#0/1
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+HWI-EAS443:3:56:1339:414#0/1
a]a`aaa`¥`a^]a_`^`^`_¥LYUaY^P^[^]_]VS^_
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AAAAGAAGTCTGAGATCTAATGTCGCAGTCCCGCACTCGC
+HWI-EAS443:3:56:1364:1812#0/1
aa`aaaa`_]a`UaRFY``_X^]a`U^aTUZ_WRUQ¥¥^S
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+HWI-EAS443:3:56:1370:1968#0/1
¥[IFZZ_¥[P¥¥Z__][MK[RTYBBBBBBBBBBBBBBBB
@HWI-EAS443:3:56:1382:583#0/1
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+HWI-EAS443:3:56:1382:583#0/1
ab`aba_bbbbb^baa_a_`b^bbb_`b¥`ab]bbbbY
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+HWI-EAS443:3:56:1420:1777#0/1
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@HWI-EAS443:3:56:1421:76#0/1
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+HWI-EAS443:3:56:1421:76#0/1
`ba]abb`R]Y[]`^_H_]XW[_^T_Sa]a`aTNZ_``_
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+HWI-EAS443:3:56:1501:47#0/1
abba¥W`abaa_W¥`_Z``^]aQ`S[[_`_¥_Z____TN_
@HWI-EAS443:3:56:1551:1283#0/1
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+HWI-EAS443:3:56:1551:1283#0/1
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@HWI-EAS443:3:56:1563:1250#0/1
AGAAGTCTGAGATCTAATGTCGCAGTCCCGCACTCGCGAG
+HWI-EAS443:3:56:1563:1250#0/1
ab[a`bbb`bbba[a^M]_a^¥`aa_UaaT_]Y`¥]_`_¥
@HWI-EAS443:3:56:157:2043#0/1
AAAAGAAGTCTGAGATCTAATGTCGCAGTCCCGCACTCGC
+HWI-EAS443:3:56:157:2043#0/1
aaaaa`aaaaa^aa``aa`aa]_`Z`[UZWW]^_Y]]]¥
@HWI-EAS443:3:56:1584:907#0/1
GAATAAAAGAAGTCTGAGATCTAATGTCGCAGTCCCGCAC
+HWI-EAS443:3:56:1584:907#0/1
a¥U_Y_]`b]_W_a[`U^VSZa`_abZ`_W`_][^Y`YXV
@HWI-EAS443:3:56:1593:1549#0/1
CTAATGTGCTAATTGGGCAAGGGGACGTAGTGTGGTAAT
+HWI-EAS443:3:56:1593:1549#0/1
ab[a]TVb]b[_aaa__`__ba`XV]`ZQ_Z_^a``VO^_

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+HWI-EAS443:3:56:1680:1603#0/1
ab]Y`baaV[[_`____¥a__^_YaZa¥``a____a]`Ya`
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GCTAATGTGCTAATTGGGCAAGGGGACGTAGTGTGGTAA
+HWI-EAS443:3:56:169:814#0/1
aaa]`aa]aaa`aaa]aa`aaaa^_b^^aWa]_a]V^^
@HWI-EAS443:3:56:1703:1163#0/1
AAAGAAGTGAAGATCTAATGTCGCAGTCCCGCACTCGCG
+HWI-EAS443:3:56:1703:1163#0/1
a_bZ^ba`a_]_ab`I^`Xaa¥YDM_aW____aXRTL MN][
@HWI-EAS443:3:56:1705:790#0/1
GCTGTAATTGGGTATCTCATTGCCATCATCCACTTCATTC
+HWI-EAS443:3:56:1705:790#0/1
a_a^Y`_a`aaa]____^¥`^a^ZZ^^Z^^Y]]V]_]____]V
@HWI-EAS443:3:56:1711:1084#0/1
CCCGTTTTCGTTTCATTACCAACTACGTCCCCTTGCCC
+HWI-EAS443:3:56:1711:1084#0/1
a`baT^bbabbbbaaabab`bbababbba``aaba``a¥
@HWI-EAS443:3:56:17:1110#0/1
AAAGAAGTGAAGATCTAATGTCGCAGTCCCGCACTCGCG
+HWI-EAS443:3:56:17:1110#0/1
aaba_aaa```]`__a`_a``a¥````_W`_Z^V_W^¥¥[
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+HWI-EAS443:3:56:180:28#0/1
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@HWI-EAS443:3:56:20:973#0/1
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+HWI-EAS443:3:56:20:973#0/1
aa_`aa`a`a`W`¥]`[Xa^[_^^_YY^_^^U¥]S[Z[Y
@HWI-EAS443:3:56:214:1005#0/1
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+HWI-EAS443:3:56:214:1005#0/1
a`aab__`a``¥Z^`a_]a``_`_____Z[aaa_`]X_]`
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AAAAGAAGTGAAGATCTAATGTCGCAGTCCCGCACTCGC
+HWI-EAS443:3:56:240:1014#0/1
abaa``aa^F^`^^_a]aaaa_`]``a¥````_`^^[^[^
@HWI-EAS443:3:56:246:1450#0/1
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+HWI-EAS443:3:56:246:1450#0/1
a]aaa_TZ[^__][T[^`^^[^^^¥QV`¥XLZ]SQSLLW^
@HWI-EAS443:3:56:261:320#0/1
GAATAAAAGAACTGAGAGATCTAATGTCGCAGTCCCGCAC
+HWI-EAS443:3:56:261:320#0/1
aaaaaaaaab]]]aaaaZaa``aa^aa^```a_]^____^¥]
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+HWI-EAS443:3:56:335:1626#0/1
¥_W^Z__¥W_ba`__¥__^a]I]Z]]YW[``_Q¥`]¥V
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CCCGTTTTCGTTTCATTACCAACTACTCGTCCCCTTGCCC
+HWI-EAS443:3:56:336:643#0/1
abbbabbbababbaabababaaabaaabbaa]``_a[P_a_a
@HWI-EAS443:3:56:344:137#0/1
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+HWI-EAS443:3:56:344:137#0/1
aba```a^^]baa]W^V_`aaa`_]^[¥__`¥`_PW[[
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a]aba`_a`a^a`_`aaaa`^`a_]aaa`__aY¥a`___X
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+HWI-EAS443:3:56:36:1233#0/1
_W¥`]`a_aa^``a^_]`^``_a`a`Y`aa]^^`_`[`
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+HWI-EAS443:3:56:37:1199#0/1
`_[bb`_`aaabbaababaaaaab¥`aaa```_`aa^a^a`
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+HWI-EAS443:3:56:397:2038#0/1
aba_Xaabbbba`]``baZZ`a`a`_[[`Za__^a¥`_`
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+HWI-EAS443:3:56:417:662#0/1
abbaaaaa`bb`_^^`aaaaa_aaaaaaaaaa`a`aa[a`
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+HWI-EAS443:3:56:41:981#0/1
a_ba]a`a`b`]`a][X`aaa`]a`]a_a_aa`Z`__Y
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+HWI-EAS443:3:56:423:18#0/1
abb`ababb__b]`ba__b_____[[`¥^a`^Z`W¥`¥`¥`
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+HWI-EAS443:3:56:456:1825#0/1
Z]¥_]_V^]OT]a_^^aZ_]TW]]YRU`_]Y[¥U]]Z¥
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CAGGATTGTAATAATTGCTCCCTTGATGGTGGCGTACATGC
+HWI-EAS443:3:56:461:572#0/1
a]_¥YY`^OSJY]_¥PW[]¥W`_[Y[`^P]Z_TQVYT¥^S
@HWI-EAS443:3:56:476:1852#0/1
TATCTCATTGCCATCATCCACTTCATTCTGAGTGCGGGGT
+HWI-EAS443:3:56:476:1852#0/1
a]a[`ab_ZW¥Z¥U__aaa`a_aZV_a_^Q¥XNW]]X_XL

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+HWI-EAS443:3:56:476:1902#0/1
^Vb^^baa]b]¥^a¥a`abba_aaaa_baa]^aaV^a`YY
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AGAGGATTTCTCATTTTGGGCAAAGAAGACAAGAGATATG
+HWI-EAS443:3:56:479:380#0/1
_aab``abaaa``^a[a`¥``[S^b__a`_`[a^a`X`_^
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+HWI-EAS443:3:56:483:908#0/1
abaaabbabbabaaaaabaaaaaa`aaaa`aaaYa`a
@HWI-EAS443:3:56:538:554#0/1
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+HWI-EAS443:3:56:538:554#0/1
Z_baWRV¥J`WZWX_U¥[aSX]_bab`[aY]S¥b`_MaVX
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+HWI-EAS443:3:56:577:197#0/1
aa`a_ab`^aZaUa`aSU[``][^YN[RYYXUZ¥ZQMPS¥R
@HWI-EAS443:3:56:590:665#0/1
GTCCCGTTTTTCGTTTCATTACCAACTACGTCCCCTTGC
+HWI-EAS443:3:56:590:665#0/1
a`aaaaaaaab_aa__`a^`a`_a]aa`a]_]_¥_Y]_
@HWI-EAS443:3:56:591:1358#0/1
GAATAAAAGAAGTCTAATGTCGCAGTCCCGCAC
+HWI-EAS443:3:56:591:1358#0/1
aaaaabba`a`_]aa_b`_aaaaa`_`aaa__^^`_^
@HWI-EAS443:3:56:594:239#0/1
CTGCTGTAATTGGGTATCTCATTGCCATCATCCACTTCAT
+HWI-EAS443:3:56:594:239#0/1
abbbaaX_bbbabaaba`W^ababa_aabaaa^`^aaa`_
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+HWI-EAS443:3:56:614:1058#0/1
aa^^abbb__b`_aV¥]aaaY__¥`__`P¥]__`¥__^¥U
@HWI-EAS443:3:56:630:862#0/1
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+HWI-EAS443:3:56:630:862#0/1
aaaaaa`a_aaY``XN[T]`^[^_`aW`_]_¥^]]````_
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+HWI-EAS443:3:56:636:650#0/1
aaa`aabbbbbbbbbbaaaababaababaaab^`aaaa^
@HWI-EAS443:3:56:656:716#0/1
GCTAATGTGCTAATTGGGCAAGGGGACGTAGTGTGGTAA
+HWI-EAS443:3:56:656:716#0/1
aab_W_b^bbbabbaabbaabaaba^b]ab^b^baaX^a
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+HWI-EAS443:3:56:676:341#0/1
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@HWI-EAS443:3:56:69:225#0/1
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+HWI-EAS443:3:56:69:225#0/1
abab_abaab^aa_`baaa[aa^`]a`^a^_[[_^W[YZ^
@HWI-EAS443:3:56:727:90#0/1
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+HWI-EAS443:3:56:727:90#0/1
abb_aaabbabbbbbbbbaabaZ_a^X^a_`aaaa_a]X`
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+HWI-EAS443:3:56:738:203#0/1
aabaaaabbaa`baa_¥a^_a`a`a`aaa_abX`a`^`^
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+HWI-EAS443:3:56:748:1597#0/1
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+HWI-EAS443:3:56:750:40#0/1
a]a_aaaa```aa_a¥`b^`aaa_aaVa^__aa][aaS__
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GTCCCGTTTTCGTTTCATTACCAACTACTCGTCCCCTTGCC
+HWI-EAS443:3:56:753:589#0/1
aaa^a`aaaab_a`_]_aa^_Xaa_a_```^P^_^Z^YS[
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+HWI-EAS443:3:56:76:437#0/1
aaaaaaaaaaaa`a`aa_`a__[__]S_____`¥U_^Z_X
@HWI-EAS443:3:56:799:1355#0/1
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+HWI-EAS443:3:56:799:1355#0/1
aaaaZaaabbaa]ba`^`````[____`a_Y`a`a`Y^aaY
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CGCGAGATACTCACTAAGACCACTGTGGACCATATGGCCA
+HWI-EAS443:3:56:819:1006#0/1
`bbaababbbbaaaabbaaabb`ab`a_a_ba`````Y[`a
@HWI-EAS443:3:56:835:1347#0/1
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+HWI-EAS443:3:56:835:1347#0/1
]b`babbab_Uabb`^aaa]a`_```UYU^`_VY]V¥]^Y
@HWI-EAS443:3:56:83:449#0/1
AAAGAAGTACTGAGAGATCTAATGTCGAGTCCCGCACTCGCG
+HWI-EAS443:3:56:83:449#0/1
¥bb`_`^aa^__aaaa`W_`Y¥Z]]_X``aa]ZXZZ]¥]
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+HWI-EAS443:3:56:841:1373#0/1
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+HWI-EAS443:3:56:852:1187#0/1
a`a`_a____`¥aa`a_aa^a_]``_`aaa_`__a`_`
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GTCCCCGTTTTCGTTTCATTACCAACTACGTCCCCCTTGC
+HWI-EAS443:3:56:852:654#0/1
aNRZ]aHQ`V[WMYXMQP[a[]VVNURLZS[ZYFLNLT^R
@HWI-EAS443:3:56:854:1707#0/1
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+HWI-EAS443:3:56:854:1707#0/1
UabUK[[`aX^a]aXWWW¥a]¥_[]_RK¥YZ]][[`Y¥¥
@HWI-EAS443:3:56:863:138#0/1
GAGATCTGCATGGCCAGGGTTTGTATCAACTCTCCTCCTT
+HWI-EAS443:3:56:863:138#0/1
a`[PSTXaZ`[¥]]VN]a_W____]V]]¥RXZU_][]S]]]
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+HWI-EAS443:3:56:880:562#0/1
a`aaXaaaZ_aZ_¥^`_`¥YPZ]Y[ZZR^[WUW[¥Y¥U[^
@HWI-EAS443:3:56:89:1110#0/1
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+HWI-EAS443:3:56:89:1110#0/1
^aa`bb[S__R_a^bba_TWXXZaY`ab_]`R^_]ZQ¥`_
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+HWI-EAS443:3:56:911:1811#0/1
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+HWI-EAS443:3:56:91:556#0/1
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+HWI-EAS443:3:56:940:1074#0/1
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@HWI-EAS443:3:56:953:904#0/1
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+HWI-EAS443:3:56:953:904#0/1
^_a`a`bbaaZ`ba_aaaa^a_aaabaaa_]a_aaa]V
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+HWI-EAS443:3:56:975:1547#0/1
aabaabbaaab_aaaaaaa`ba_`a[_aa`b`a]aaaa_
@HWI-EAS443:3:56:978:893#0/1
ATCTAATGTCGCAGTCCCGCACTCGCGAGATACTCACTAA
+HWI-EAS443:3:56:978:893#0/1
a`]`a_a`X``aa[Q¥_aZ¥V]¥¥VZ¥T^XZ]__]ZRX¥[
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+HWI-EAS443:3:56:97:810#0/1
aabb`abUba`ab^a^b`Sa`[_Z__V`WWZ`^a¥QR[`
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+HWI-EAS443:3:57:1075:678#0/1
abbb_baaabbaba¥abbbabab_aab_a`aaa_[Y`a_a
@HWI-EAS443:3:57:1130:392#0/1
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+HWI-EAS443:3:57:1130:392#0/1
abbb`abbabaabaabab_]ba`a`aa`a`^^]Za_a`_`
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CCCGTTTTTCGTTTCATTACCAACTACGTCCCCTTGCCC
+HWI-EAS443:3:57:1134:849#0/1
`Z¥¥PZWa`_Zabb`baa[Z¥]`a`a]_ZVWVYGYZ]S¥V
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+HWI-EAS443:3:57:1159:1071#0/1
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+HWI-EAS443:3:57:1159:395#0/1
a`_aR]a¥[V`H]ZHW^_a]NW]RZZ^^`_Q_X]`U^_]X
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GAGAATAATGGACATGATTCCAGAGAGGAATGAACAAGGA
+HWI-EAS443:3:57:1171:1745#0/1
^^a_bbaba^^`aaa`abba`baab_bb`bbb`aaaabaa
@HWI-EAS443:3:57:1179:1160#0/1
ATTGACTGAAGATCCAGATGAAGGCACATCTGGGGTGGAG
+HWI-EAS443:3:57:1179:1160#0/1
abaaa]b`R¥`a]0`V¥¥XP¥]`^XN^]L____^XMY¥BB
@HWI-EAS443:3:57:1188:329#0/1
GTGACTCTGATGTCAGTATTCTTGCCCCACTTCATTTGG
+HWI-EAS443:3:57:1188:329#0/1
a¥`WY^___¥_WL[ZTRU]]Z^^]¥YU¥[XZXRYQTXXWY
@HWI-EAS443:3:57:1199:683#0/1
GTCCCCTTTTCGTTTCATTACCAACTACGTCCCCTTGCC
+HWI-EAS443:3:57:1199:683#0/1
a`_[baaaaa`aa_aa_a`Za_^a_aa`_^_¥^____`V
@HWI-EAS443:3:57:120:861#0/1
ATAAAAGAACTGAGAGATCTAATGTCGCAGTCCCGCACTC
+HWI-EAS443:3:57:120:861#0/1
aaa`ab`aaaabaaaa`aaa`aa_aa`]a^`_`^a^_`
@HWI-EAS443:3:57:1214:1080#0/1
GAAGTGGATGATGGCAATGAGATACCCAATTACAGCAGAC
+HWI-EAS443:3:57:1214:1080#0/1
a`]¥Qb_[ba[_a¥`aba`^^^`[]a`aaab`Y_`]^`_`^

@HWI-EAS443:3:57:1268:1190#0/1
GGGGACGTAGTGTGGTAATGAAACGAAAACGGGACTCTA
+HWI-EAS443:3:57:1268:1190#0/1
aaaa`¥_]`[]_aa^[``]Y¥]]L]Z]^]V]¥¥][¥VY[
@HWI-EAS443:3:57:1276:1887#0/1
GAAGGCACATCTGGGGTGGAGTCTGCTGTCCTGAGAGGAT
+HWI-EAS443:3:57:1276:1887#0/1
aa^RWaa`^b_aaa^aYaa¥]¥_Za[___^[V]]Z`Va`__
@HWI-EAS443:3:57:1281:332#0/1
CGTACATGCTAGAAAGAGAATTGGTCCGTAACAAGGTT
+HWI-EAS443:3:57:1281:332#0/1
aaK]Zabb]]][b^X`¥I[_Tab]ZWWW]T]]`[N¥_^VSB
@HWI-EAS443:3:57:1408:343#0/1
AAAGAAGTCTGAGAGATCTAATGTCGCAGTCCCGCACTCGCG
+HWI-EAS443:3:57:1408:343#0/1
aa]00X[a`_[X`T]^aZ¥a_T]¥TZ]XY`V][[[MZRQ^
@HWI-EAS443:3:57:1447:724#0/1
GGAGTCTGCTGTCCTGAGAGGATTTCTCATTTTGGGCAAA
+HWI-EAS443:3:57:1447:724#0/1
aa_`Vaaa]aa^__`a_aX_a_aa^S`__`aaaX`_U__a
@HWI-EAS443:3:57:1450:1337#0/1
CTTCCTGATGTGTACTTTTTGATTATGGCCATATGGTCCA
+HWI-EAS443:3:57:1450:1337#0/1
abb`abbaaabababbbbbb_`abbb[bbaa_aaMYXX`X
@HWI-EAS443:3:57:1456:1565#0/1
TACAGTTCTTGGAAAGGATGCAGGTGCATTGACTGAAGAT
+HWI-EAS443:3:57:1456:1565#0/1
ab^abab_bb_`^`aaaaaa[aa_Ya_^aaaaYa``a_`a
@HWI-EAS443:3:57:150:659#0/1
GTCCCGTTTTCGTTTTATTACCAACTACGTCCCTTGC
+HWI-EAS443:3:57:150:659#0/1
_YZ_ab`Z^_]VP]]`^[]_]W`X_[ZZa`[^¥V[RMYX
@HWI-EAS443:3:57:1537:1485#0/1
AGAGAATAAAGAAGTCTAATGTCGCAGTCCCG
+HWI-EAS443:3:57:1537:1485#0/1
]¥Za`¥V¥bbaa_aabb_Y^``bab`abbaXaaa`¥]_Ga
@HWI-EAS443:3:57:1545:1415#0/1
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+HWI-EAS443:3:57:1545:1415#0/1
aaaaaaaaabaaa`aa_ba_ab`¥__`a^_Y_[^_S¥¥_`^
@HWI-EAS443:3:57:1559:1484#0/1
AAAAGAAGTCTGAGAGATCTAATGTCGCAGTCCCGCACTCGC
+HWI-EAS443:3:57:1559:1484#0/1
a`^`_^_X_V]aYb`a[aaabaU^`QZ`^Y[aa[^VU¥_`^
@HWI-EAS443:3:57:1583:554#0/1
GAGAATAAAGAAGTCTAATGTCGCAGTCCCGC
+HWI-EAS443:3:57:1583:554#0/1
a[]`aba`aaa`aaa`_a`a__Yaaa____`_U]__U]X¥^
@HWI-EAS443:3:57:165:985#0/1
GGGCGATCTGAACCTTTGTCAATAGGGCAAACCAGCGACTG

+HWI-EAS443:3:57:165:985#0/1
a`aabaabab``baabaaaaaa_a`aaa__aa_a`bVa
@HWI-EAS443:3:57:1665:1779#0/1
CCCGTTTTTCGTTTCATTACCAACACTACGTCCCCTTGCCC
+HWI-EAS443:3:57:1665:1779#0/1
aa]baabbabaaaaabaaa`^Z[¥aa_a_XS]R`ZRYZ^
@HWI-EAS443:3:57:1725:898#0/1
GAGAATAATGGACATGATTCCAGAGAGGAATGAACAAGGA
+HWI-EAS443:3:57:1725:898#0/1
K`[Sa^aabaab_bbbba`]a`ab`abab^¥[aaaaZa
@HWI-EAS443:3:57:1777:267#0/1
GTCCCCTTTTCGTTTCATTACCAACACTACGTCCCCTTGC
+HWI-EAS443:3:57:1777:267#0/1
_aWUV[]`_aY`]^ZRXbaa```0¥Q^_Y¥XMR^JZ[XB
@HWI-EAS443:3:57:234:1610#0/1
GCTAGAAAGAGAATTGGTCCGTAAAACAAGTTTCTCCCA
+HWI-EAS443:3:57:234:1610#0/1
aaaaaab[]ba`aaa_a¥_^a__aaaZaaa]¥__`_¥_X_
@HWI-EAS443:3:57:235:2012#0/1
AGAGAATAAAAGAACTGAGAGATCTAATGTGCGCAGTCCCG
+HWI-EAS443:3:57:235:2012#0/1
ZQY[^`aba[^QX`[^_``[^`Y`a¥ab_b^^_W]¥]N
@HWI-EAS443:3:57:241:1797#0/1
GGGAGATCAATGGCCCTGAGTCAGTGCTAGTCAACACTTA
+HWI-EAS443:3:57:241:1797#0/1
_`[_aba]bba][_[_^`Za_`_]VZ]V¥¥Z]NaU_`]
@HWI-EAS443:3:57:248:269#0/1
GTACTTTTTGATTATGGCCATATGGTCCACAGTGGTCTTA
+HWI-EAS443:3:57:248:269#0/1
_RS^a^]W]^_a`^`^¥]Y[XWYYJSNQYJSTNDP[GVB
@HWI-EAS443:3:57:249:357#0/1
ATGAAGTGGATGATGGCAATGAGATACCCAATTACAGCAG
+HWI-EAS443:3:57:249:357#0/1
aba_ab^bb^abR_aaa_a`aaa__a___`a_```a^]¥a
@HWI-EAS443:3:57:255:84#0/1
GGGACGTAGTGTGGTAATGAAACGAAACGGGACTCTAG
+HWI-EAS443:3:57:255:84#0/1
aa_^Xb_^a_a_aaaX^^_[^_V`^]^^V[Y]VXXXXX]
@HWI-EAS443:3:57:260:1209#0/1
GGGCCATATCTCTTGTCTTCTTTGCCAAAATGAGAAATC
+HWI-EAS443:3:57:260:1209#0/1
aa`bbbbbbbaabababbaabbba`aaaab`_^```aaa`
@HWI-EAS443:3:57:261:1407#0/1
AAAGAACTGAGAGATCTAATGTGCGCAGTCCCGCACTCGCG
+HWI-EAS443:3:57:261:1407#0/1
aaaa`a_aaa_a`_a__`_a¥^^^_ZW^__XWV^¥¥¥¥¥
@HWI-EAS443:3:57:311:1620#0/1
GGATGATGGCAATGAGATACCCAATTACAGCAGACAAGAG
+HWI-EAS443:3:57:311:1620#0/1
aa¥U0`0_¥aZ]_]`_`RG^Y``_`[[[Y¥PXTY]_]`_`

@HWI-EAS443:3:57:31:1112#0/1
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+HWI-EAS443:3:57:31:1112#0/1
a_a`aa^aa_b__`a`aaaaZa]_`_Ya__¥`Z_TZZX[
@HWI-EAS443:3:57:325:1188#0/1
AAGCGGATCATCAGTCAAGAAAGAAGAAGTGTAAACG
+HWI-EAS443:3:57:325:1188#0/1
a]^`a_____a`__[^`[^]____`[]^W`Z_U]__^`XX
@HWI-EAS443:3:57:383:1247#0/1
CCCCGTTTTCGTTTCATTACCAACTACGTCCCCTTGCCC
+HWI-EAS443:3:57:383:1247#0/1
a^Wa^`_a]YR[___`^`_SUNR_^TUXTQS__RFRVBBB
@HWI-EAS443:3:57:383:380#0/1
CTGCTGTCTGAGAGGATTTCTCATTTTGGGCAAAGAAGA
+HWI-EAS443:3:57:383:380#0/1
`a`[_baba^¥[``^XS¥^^^aaaaaaaa_VVZa`a^aaa
@HWI-EAS443:3:57:386:1902#0/1
GAATAAAAGAAGTCTAATGTTCGAGTCCCGCAC
+HWI-EAS443:3:57:386:1902#0/1
a`a_`a`¥N_]`Z^^^_[Y`X`^RGRU_¥WMUVXRUB
@HWI-EAS443:3:57:391:347#0/1
GCTCCAGCACGTCCCTTGGGTTAAGTGCAACTTCAAT
+HWI-EAS443:3:57:391:347#0/1
a`a_]a`a`a¥___[_Z^[U_[Z^W[[U¥¥^¥W[SSS^
@HWI-EAS443:3:57:409:1786#0/1
GATGAAGGCACATCTGGGGTGGAGTCTGCTGCTGAGAG
+HWI-EAS443:3:57:409:1786#0/1
^ba]aaX_]a`[_`aaa^aSa`Z`^`a`X`_`ZVaX[_`
@HWI-EAS443:3:57:438:424#0/1
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+HWI-EAS443:3:57:438:424#0/1
ab_ZW`b`^Z`]`bZ___bYSWI_U`aa`^aaba¥aX`_a
@HWI-EAS443:3:57:455:110#0/1
GGATGATGGCAATGAGATACCCAATTACAGCAGACAAGAG
+HWI-EAS443:3:57:455:110#0/1
`baWbaIa`[SYaaa[_Y_^VOYW¥_^¥]^Y`_]ZZNT__
@HWI-EAS443:3:57:46:1855#0/1
TGCAGGTGCATTGACTGAAGATCCAGATGAAGGCACATCT
+HWI-EAS443:3:57:46:1855#0/1
a``[QXH^Z_aaabaT[]`[X`b`¥QYT[``_ZP^_]SX
@HWI-EAS443:3:57:478:1013#0/1
GGCCCTGAGTCAAGTCAACTTATCAATGGATAA
+HWI-EAS443:3:57:478:1013#0/1
aabbabbbaabab_aaaab`_aaXa¥`aaaa]aa`_`a]
@HWI-EAS443:3:57:480:1837#0/1
CAAACGACTTACAGTTCTTGGAAAGGATGCAGGTGCATTG
+HWI-EAS443:3:57:480:1837#0/1
aabbabababaaaa^b_baaa]]a___`a^`aaX_aa_¥^
@HWI-EAS443:3:57:500:56#0/1
CTTATTTTTCAGTGTGGAGGTTGCCGTTAGCACTTCTT

+HWI-EAS443:3:58:1012:1703#0/1
XW[a`WX_R_¥]_aa_a^_U¥_ZZ_¥` ``^a0[SX]MRRX
@HWI-EAS443:3:58:1042:89#0/1
ATAAAAGAAGACTGAGAGATCTAATGTCGCAGTCCCGCACTC
+HWI-EAS443:3:58:1042:89#0/1
abaa`_ba_[aaaaab[a_a__bb^]a¥_a]]]_]]]_¥
@HWI-EAS443:3:58:1042:98#0/1
GTCCCGTTTTTCGTTTCATTACCAACTACGTCCCTTGC
+HWI-EAS443:3:58:1042:98#0/1
aaa` `b`aaa_b`aa]`aa`]Ya`^a_aa_a_]Y^^]^^¥
@HWI-EAS443:3:58:1043:1435#0/1
CTCGCGAGATACTACTAAGACCACTGTGGACCATATGGC
+HWI-EAS443:3:58:1043:1435#0/1
`]ZG¥V]_[Y^ZY]QX___QUN^¥TPLZTU]_X]V[VVW
@HWI-EAS443:3:58:1055:135#0/1
CAACCATTGTGAATTCTTCATACCCTTCATGTACTCTTAT
+HWI-EAS443:3:58:1055:135#0/1
abbaabbbbaa^T`aZbaaaba`a_baa_ba`a`b_a`ab
@HWI-EAS443:3:58:1058:1456#0/1
GTCTTAGTGAGTATCTCGCGAGTGC GGGACTGCGACATTA
+HWI-EAS443:3:58:1058:1456#0/1
a_]`aaaUaab`baaXZY]_¥]L_Y`aaHSXSQ[NP¥[`Z
@HWI-EAS443:3:58:1076:534#0/1
CAATTCTCTTTCTAGCATGTACGCCACCATCAAGGGAGCA
+HWI-EAS443:3:58:1076:534#0/1
ababbababb` `baa¥abbabaaa_a`aaaaa` `aabaa
@HWI-EAS443:3:58:1082:1595#0/1
CGTCATCAATGATGTGGGAGATCAATGGCCCTGAGTCAGT
+HWI-EAS443:3:58:1082:1595#0/1
Ya[YaaVabbaXXaaaUI¥ba^Ybaa_TP]ZZ`IbbZ[Z¥
@HWI-EAS443:3:58:1103:743#0/1
AGAGGTGATACCATCACTCGGTCTGATCCAGCATCGTTTG
+HWI-EAS443:3:58:1103:743#0/1
aaaaa¥baa__aaa^¥__]_VZX[X^Z^R[YS_[]Q[]W
@HWI-EAS443:3:58:1141:98#0/1
CTAATGTCGCAGTCCCGCACTCGCGAGATACTACTAAGA
+HWI-EAS443:3:58:1141:98#0/1
abbabbaabaabaaa`ab_a`_¥`a_a_[_Ra[_^`_][¥¥
@HWI-EAS443:3:58:1146:929#0/1
ATAGGGTTGAGGATTAGCTCATCTTTTCAGTTTTGGTGGGT
+HWI-EAS443:3:58:1146:929#0/1
¥`bbbb^bbabbabb`ba`_aa]`b_]`_Yab`aa^a` `[
@HWI-EAS443:3:58:1158:413#0/1
ATTTCTCATTTTTGGGCAAAGAAGACAAGAGATATGGCCCA
+HWI-EAS443:3:58:1158:413#0/1
``^a_WZ]X]`aS_`^a_`a]`a`U[F[Xb_URLL^]P¥¥
@HWI-EAS443:3:58:1167:570#0/1
CTCGCGAGATACTACTAAGACCACTGTGGACCATATGGC
+HWI-EAS443:3:58:1167:570#0/1
abbbabababaaaaaaa_baaa`_aa_bb__a_`a^_a_` ` _

@HWI-EAS443:3:58:1213:819#0/1
GTGCTAATTGGGCAAGGGGACGTAGTGTGGTAATGAAAC
+HWI-EAS443:3:58:1213:819#0/1
YDY__TP`a^bYNTNQRZaGXQN]VH^[] [GLXPWYVS_V
@HWI-EAS443:3:58:1231:888#0/1
GTCCCCGTTTTCGTTTTATTACCAACTACGTCCCCCTTGC
+HWI-EAS443:3:58:1231:888#0/1
a[WY_b^^a`_a^__Zaa`_WZ__]`^^^`ZZZZ^]Y]V
@HWI-EAS443:3:58:1236:202#0/1
GAATAAAAGAAGACTGAGAGATCTAATGTCGCAGTCCCCGCAC
+HWI-EAS443:3:58:1236:202#0/1
aaaaaaaaab__`ab`a_a____`_]`a^__]^`X]^`U]
@HWI-EAS443:3:58:125:1757#0/1
CGTTTTCGTTTTATTACCAACTACGTCCCCCTTGCCCAA
+HWI-EAS443:3:58:125:1757#0/1
[a_K`bbba_b_ab_ba_b_b^]a[PX_aaa`YHb]``¥
@HWI-EAS443:3:58:1285:1609#0/1
GATCTAATGTCGCAGTCCCCGACTCGCGAGATACTACTA
+HWI-EAS443:3:58:1285:1609#0/1
`¥b[ab_bb__^a__Wbb_XXa`_a[b`aa^a`Ua^`¥¥_
@HWI-EAS443:3:58:1297:254#0/1
GCCCAACAACAAGTACAGTTCATTACCCTAAGGTATATAA
+HWI-EAS443:3:58:1297:254#0/1
aaa`aaaa_a_a^a^aa`a_`a`_]`^a]]aaU^a`__U
@HWI-EAS443:3:58:1298:1422#0/1
CGTTCCTCTTTGATCTCTAACCTTAAAAATCGGTCAAT
+HWI-EAS443:3:58:1298:1422#0/1
aa]````ZY_¥Ya¥_NZN¥^YOVOMX^W]ZZa]aaYSZRZ
@HWI-EAS443:3:58:1315:1403#0/1
AGCAGCGATAATCAAACCTTTGGTCAACATCATCATTTCTC
+HWI-EAS443:3:58:1315:1403#0/1
^_T]a^__aZ]^ [T¥VTabXY¥¥`[^ [a_] [aY`aaa_a¥
@HWI-EAS443:3:58:1318:389#0/1
ATTCAATTCCCCAGTTCTGGAAAAGCACTTTTGCATCTTT
+HWI-EAS443:3:58:1318:389#0/1
¥[XZ`^Q[[Z[^S_TX^LREVS`^___X¥ZQOV]¥_¥Z
@HWI-EAS443:3:58:1359:170#0/1
GTCCCCGTTTTCGTTTTATTACCAACTACGTCCCCCTTGC
+HWI-EAS443:3:58:1359:170#0/1
aaa`baaaa_b_aa_abaa__a`]`_a`^a^WUY]ZY[U
@HWI-EAS443:3:58:1371:1228#0/1
AGAGAATAAAAGAAGACTGAGAGATCTAATGTCGCAGTCCCG
+HWI-EAS443:3:58:1371:1228#0/1
aaR^_baaa^a]b`_`aa¥``aa^aaaaa`S_`a¥FZ__
@HWI-EAS443:3:58:1393:1837#0/1
AAATCAAGTTAAAATAAGGAGGAGAGTTGATACAAACCCT
+HWI-EAS443:3:58:1393:1837#0/1
aa`_Qaa`_aa`_¥a__`a]`_Z`ZaZ^`__]V]__ZHW]
@HWI-EAS443:3:58:1435:846#0/1
TTCTCACAAAGAGATTGCATGATCAAGGCAGTTAGGGGCG

+HWI-EAS443:3:58:1435:846#0/1
ababa`a`aaabaaaaa`baa^``a`Xa[at_Y[]N_
@HWI-EAS443:3:58:1454:213#0/1
TAATTGTGGCCATGGTATTCTCACAAGAGATTGCATGAT
+HWI-EAS443:3:58:1454:213#0/1
``ab`^]a^X][TNWDU]]WYQUW¥XYR¥[FLZYVYZYZU
@HWI-EAS443:3:58:1459:806#0/1
ATGTGCGAGTCCCGCACTCGCGAGATACTACTAAGACCA
+HWI-EAS443:3:58:1459:806#0/1
aaa`_ba`aZ``a`^`_`_¥¥^ZV__W_W_¥___`^UW^
@HWI-EAS443:3:58:1487:935#0/1
GTGCGAGTCCCGCACTCGCGAGATACTACTAAGACCACT
+HWI-EAS443:3:58:1487:935#0/1
aU__[aa`¥W^``__QaZ^X_Z¥^¥^`^UW^Z[WMZ¥¥^
@HWI-EAS443:3:58:14:349#0/1
CACTCGGTCTGATCCAGCATCGTTTGTGTTTGTCTCCAGAGG
+HWI-EAS443:3:58:14:349#0/1
`)]`aaa`[``¥V¥]_Y¥^]¥^`U^[VR¥[_[^[[[]T¥[
@HWI-EAS443:3:58:1505:1051#0/1
CCATTTTGTGACTCTTATCCCTCTCAGCGACATCTCCGT
+HWI-EAS443:3:58:1505:1051#0/1
aabbabbbbabbaabbbbabaaab_aaaaaa`aaaa`Z¥
@HWI-EAS443:3:58:1557:1385#0/1
GTGCGAGTCCCGCACTCGCGAGATACTACTAAGACCACT
+HWI-EAS443:3:58:1557:1385#0/1
`X]aaa`GT_a`_U]_RVT_U]PXZZ[U^Z_YS^VWQ_VY
@HWI-EAS443:3:58:1557:734#0/1
TAATGTGCGAGTCCCGCACTCGCGAGATACTACTAAGAC
+HWI-EAS443:3:58:1557:734#0/1
a`ab`_`]aa`_`^`[^¥^[_`_^^^S¥¥_UW^ZSYV
@HWI-EAS443:3:58:1576:1642#0/1
GGGAGATCAATGGCCCTGAGTCAGTGCTAGTCAACACTTA
+HWI-EAS443:3:58:1576:1642#0/1
^LVRUUPW^]UZ^ZVMPYPYWW^WFSWVWVTVUTNJOSU
@HWI-EAS443:3:58:1603:754#0/1
CTAATGTGCTAATTGGGCAAGGGACGTAGTGTGGTAAT
+HWI-EAS443:3:58:1603:754#0/1
W^_bbaS`_`K__¥baa`Va__aQaaRW[aXSa`a`SZT
@HWI-EAS443:3:58:1603:794#0/1
GTTCACTTTCAAAAGGACAAGCGGATCATCAGTCAAGAAA
+HWI-EAS443:3:58:1603:794#0/1
a`a`a_aaa¥a_aaaa``^a^`a^`]_a_____]__`_`^`
@HWI-EAS443:3:58:1612:186#0/1
AAAAGAAGTGAAGATCTAATGTGCGAGTCCCGCACTCGC
+HWI-EAS443:3:58:1612:186#0/1
aababaaabaaaa`a`baaaa`^`_aZ`^`_¥¥^Z^Z
@HWI-EAS443:3:58:1628:422#0/1
GGATGCAGGTGCATTGACTGAAGATCCAGATGAAGGCACA
+HWI-EAS443:3:58:1628:422#0/1
`GZ^a^_a`Wa^`¥`_`[U``¥_W¥W¥Z¥_¥¥¥W¥[[[V¥QX

@HWI-EAS443:3:58:1648:1182#0/1
CCTTTCCAAGAAGTGTAAAGTCGTTTGGTTGCCTTGTGTGTA
+HWI-EAS443:3:58:1648:1182#0/1
aabbaabba^aa`ba`aab_`_`aa___aa`[aa_`aa_a
@HWI-EAS443:3:58:1656:1763#0/1
ATTCAATTCCCCAGTTCTGGAAAAGCACTTTTGCATCTTT
+HWI-EAS443:3:58:1656:1763#0/1
aaa`_aa]WUZ^`Y__[\`[]W`__aX[]_`_`_0^aV`__
@HWI-EAS443:3:58:1668:100#0/1
CGCACTCAGAATGAAGTGGATGATGGCAATGAGATACCCA
+HWI-EAS443:3:58:1668:100#0/1
ababab_aa`abb¥_b_bb_ab`abb¥_`ba___]_a[_¥`
@HWI-EAS443:3:58:1669:848#0/1
GTCCCCTTTTCGTTTCATTACCAACTACGTCCCCTTGC
+HWI-EAS443:3:58:1669:848#0/1
aV[[]`OPZa[_[_YX_^]RRW]O_V_^RS[ZGRYRYVR
@HWI-EAS443:3:58:1672:1530#0/1
ATCAAAGAGGGAACGTACTATTGTCTCCCGAAGAAGTCAG
+HWI-EAS443:3:58:1672:1530#0/1
aa^a`ab_a`]aa_aZa_a`aa_]Wa`]X`]_^]__ZR_T
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a^¥aa^a^[a`Y`baX]a_a^]_`_Z][Z_YW[a]^][W
@HWI-EAS443:3:58:1705:299#0/1
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+HWI-EAS443:3:58:1705:299#0/1
a__a`_W_NPV¥_ZQNZYXNQURRQ[NUNRVUKMOQR
@HWI-EAS443:3:58:1706:1467#0/1
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+HWI-EAS443:3:58:1706:1467#0/1
aa`_`aa¥Xaa_baa[aaa_baa[a¥Z`a`_a`_aY__a
@HWI-EAS443:3:58:182:52#0/1
AAAAGAAGTGAAGATCTAATGTCGCAGTCCCGCACTCGC
+HWI-EAS443:3:58:182:52#0/1
`^_]_T]`abX_ZaX`_]__`bY`_XV[UU¥Z^YLSWU[Z
@HWI-EAS443:3:58:200:1345#0/1
AGGGGACGTAGTGTGGTAATGAAACGAAAACGGGACTCT
+HWI-EAS443:3:58:200:1345#0/1
`a]aY_aa[_`V]Zaaa¥¥_[[_`a¥Z[___X_Z_^UYZ^W
@HWI-EAS443:3:58:205:947#0/1
CATCTCTTGGAAATGTGCCACAGCACACAGATTGGAGG
+HWI-EAS443:3:58:205:947#0/1
[bbbbbb`abbbbba¥`_`[aba_aabba]abbb_aabaa`_`
@HWI-EAS443:3:58:218:472#0/1
GGTTCACTTTCAAAGGACAAGCGGATCATCAGTCAAGAA
+HWI-EAS443:3:58:218:472#0/1
`bSabaaa`ba^YaTS0^a`_[aaa_`_`aaa_a]_`^`^_
@HWI-EAS443:3:58:235:1599#0/1
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+HWI-EAS443:3:58:235:1599#0/1
`[a^Ya_YX¥ZVaZa[]XaW__Z_a___aW`_`^^ZT[
@HWI-EAS443:3:58:244:145#0/1
GGTGGGTTCACTTTCAAAGGACAAGCGGATCATCAGTCA
+HWI-EAS443:3:58:244:145#0/1
aa]`a`_]`_`^]_]`^]XY^[_YV^]Y^^Y]YY^
@HWI-EAS443:3:58:285:919#0/1
AAAAGAAGTCTAATGTCGCAGTCCCCTCGC
+HWI-EAS443:3:58:285:919#0/1
`aa^a^U^_X^]Wa^`[]X[[]a_a[W¥^`YZ^ZVQUV
@HWI-EAS443:3:58:303:532#0/1
CAGATGTGCCTTCATCTGGATCTTCAGTCAATGCACCTGC
+HWI-EAS443:3:58:303:532#0/1
abba^_aaaabaa`aaaaa]aaaaaa_aa_aaZ]a`_a_
@HWI-EAS443:3:58:317:1812#0/1
TGCTGTAATTGGGTATCTCATTGCCATCATCCACTTCATT
+HWI-EAS443:3:58:317:1812#0/1
]^a`Za^]bba_G¥__`Wbaaaaaaaaa_]OY_a__Z`_
@HWI-EAS443:3:58:318:961#0/1
GTCCCCTTTTCGTTTCATTACCAACTACGTCCCCTTGC
+HWI-EAS443:3:58:318:961#0/1
aW`H_T`_b]aXa^a]a[aa`[S`^aY¥^GSWYYWX[Z
@HWI-EAS443:3:58:360:1291#0/1
TGCTAATTGGGCAAGGGGACGTAGTGTGGTAATGAAACG
+HWI-EAS443:3:58:360:1291#0/1
ababb`abaaaaaaaaa`aW^_Ua^a_YV_[ZNU¥[DT
@HWI-EAS443:3:58:367:825#0/1
GGATTTCTCATTGTTGGCAAAGAAGACAAGAGATATGGCC
+HWI-EAS443:3:58:367:825#0/1
aa_aaaaaa`aaa`]_aa`__a`_a`_]`^a^_[X]]^]
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CTCGCGAGATACTACTAAGACCACTGTGGACCATATGGC
+HWI-EAS443:3:58:404:906#0/1
[[[aaab]0]^[_`a_UZ_R`a`aY[XH[`_^BBBBBBBB
@HWI-EAS443:3:58:423:15#0/1
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+HWI-EAS443:3:58:423:15#0/1
¥`ab`b]¥`¥`aa]aaa^]`^`ZWW`]YbT`b^aL0^V
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GGCGTACATGCTAGAAAGAGAATTGGTCCGTAACAAGG
+HWI-EAS443:3:58:431:91#0/1
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CTGCTGTAATTGGGTATCTCATTGCCATCATCCACTTCAT
+HWI-EAS443:3:58:449:285#0/1
abbaab`¥Vabbba^a`aa`aaa`aa`_Z[^_a^__
@HWI-EAS443:3:58:454:30#0/1
GAGAGATCTAATGTCGCAGTCCCCTCGCAGATACTC
+HWI-EAS443:3:58:454:30#0/1
a`a_aaa^`aT`a^`_¥_aZW[]Y[MY^[^Z`W^SYSVWW

@HWI-EAS443:3:58:454:467#0/1
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+HWI-EAS443:3:58:454:467#0/1
aab`ababaaaa^ab_a`YNY`]¥Za]Q¥V`^`QVT_[]`a
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CGCACTCGCGAGATACTACTAAGACCACTGTGGACCATA
+HWI-EAS443:3:58:459:2001#0/1
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@HWI-EAS443:3:58:471:366#0/1
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+HWI-EAS443:3:58:471:366#0/1
aUaaa[abab`^`_`aaa_`a`_R__`_¥¥¥¥¥XL[^¥[^
@HWI-EAS443:3:58:535:1057#0/1
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+HWI-EAS443:3:58:535:1057#0/1
``aababbbba`baa_``aa_aaaaaaa`aa_a```Z]aa`
@HWI-EAS443:3:58:556:619#0/1
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+HWI-EAS443:3:58:556:619#0/1
abaaaaaaaaaaaa_aa_aaaa_aaa]`a_aWa``aaaZa^a
@HWI-EAS443:3:58:581:1157#0/1
GGAGAGAATAAAAAGAACTGAGAGATCTAATGTCGCAGTCC
+HWI-EAS443:3:58:581:1157#0/1
ab_`Tbbabbbbb_baaa``ab[^abbaba_`baabY^a
@HWI-EAS443:3:58:581:75#0/1
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+HWI-EAS443:3:58:581:75#0/1
ab``^aa^Z_]X]OW^]QL]aZU[_U^RXZY_SNJVWTQS
@HWI-EAS443:3:58:591:417#0/1
AAACGATGCTGGATCAGACCGAGTGTGGTATCACCTCTG
+HWI-EAS443:3:58:591:417#0/1
aaaaaa`aaa^`aZ_`^Z¥YY]aW^US¥]TVW_¥VSUV¥_
@HWI-EAS443:3:58:600:585#0/1
CTGCTGTCTGAGAGATTTCTCATTGTTGGCAAAGAAGA
+HWI-EAS443:3:58:600:585#0/1
`S^]Y_0_W]OR[W_[]¥W[YZT__a^W__¥LQZV__V_R
@HWI-EAS443:3:58:626:1571#0/1
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+HWI-EAS443:3:58:626:1571#0/1
aabaZ]aaaaaaaa__^aa`XZa_a_`X[XaZaZ_a`aX
@HWI-EAS443:3:58:638:668#0/1
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+HWI-EAS443:3:58:638:668#0/1
a`bbaaaaaaaaa`a_`aaa`Q]a_`_a]^`a^a_Z^_]_
@HWI-EAS443:3:58:674:1240#0/1
ACTAAGACCACTGTGGACCATATGGCCATAATCAAAAAGT
+HWI-EAS443:3:58:674:1240#0/1
]]_`^__a`^`^`_Fa]ZYaaa¥[YUa]_¥^^`__¥]^a_X
@HWI-EAS443:3:58:682:359#0/1
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+HWI-EAS443:3:58:682:359#0/1
T_a_¥a¥a` [X] `¥_bb_VW`W_¥]ZXUXaXRT^aZaW_]
@HWI-EAS443:3:58:69:1986#0/1
AGAGAATAAAAGAACTGAGAGATCTAATGTCGCAGTCCCG
+HWI-EAS443:3:58:69:1986#0/1
¥Z`aK_a`_b_ZZ]_]U_W^]_`aaaaaYa__a[Za_]Y
@HWI-EAS443:3:58:710:1428#0/1
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+HWI-EAS443:3:58:710:1428#0/1
abaa`bab`aaabaa¥_b^a_a`a`aa`__a` `XL[`aa
@HWI-EAS443:3:58:715:633#0/1
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+HWI-EAS443:3:58:715:633#0/1
a_aaV^^_Xaaa`_Z_a`^]a[`^aa_` `a^ZV[¥_[_^_
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+HWI-EAS443:3:58:766:1477#0/1
]`U_^S]aaa]V]PaVXQ¥]aaXXGXSMEW` [GYXHN[_¥
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+HWI-EAS443:3:58:775:1447#0/1
a`XUY^P[aY¥`a^_]W^^_]^S^¥Ya_a` [G`^_] []^
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+HWI-EAS443:3:58:779:1916#0/1
]M_bbb]Ra`^¥[^a_]a_a__`a`a[`a^` []Z]R[VW]
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+HWI-EAS443:3:58:829:526#0/1
aaa`ab_ab^baab`Z^aaa_`a] `V^`a[¥`_]S]^W`a
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+HWI-EAS443:3:58:838:854#0/1
` `abb`aaaa`a_aaaaababb_a_`aaZ_aa`a_`¥¥_¥
@HWI-EAS443:3:58:842:1500#0/1
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+HWI-EAS443:3:58:842:1500#0/1
Ma_abX`bb^F¥baXa`T` [`a¥_` [a`aH`^`_aR^P
@HWI-EAS443:3:58:848:762#0/1
AGAGATCTAATGTCGCAGTCCCGCACTCGCGAGATACTCA
+HWI-EAS443:3:58:848:762#0/1
__¥a`bbbaabba` `ab[`a`a_Z__aaa_U`]^¥¥` _`
@HWI-EAS443:3:58:849:657#0/1
GGATGATGGCAATGAGATACCCAATTACAGCAGACAAGAG
+HWI-EAS443:3:58:849:657#0/1
ab`abaabb_aaabaaa` _`aaabaa_aa_`a_a` ` ` _`
@HWI-EAS443:3:58:883:1617#0/1
CATTATTCTTGTCTGTGTAATTGGGTATCTCATTGCC
+HWI-EAS443:3:58:883:1617#0/1
_W^_Y_X__[_[[VYZ`X`IRZ`¥a_HQN_FJV¥aT]X_^

@HWI-EAS443:3:58:916:1080#0/1
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+HWI-EAS443:3:58:916:1080#0/1
aa_`^Ya`baaaYYWW_bZ[^a_YP]aYa_[^_a_]_`]
@HWI-EAS443:3:58:920:1924#0/1
ATATCTCTTGTCTTCTTTGCCAAAATGAGAAATCCTCTC
+HWI-EAS443:3:58:920:1924#0/1
W_a_Z]bab_babbaabb`]^abaabbaabbab_¥]a¥`a
@HWI-EAS443:3:58:951:1154#0/1
GTCCCCGTTTTCGTTTTATTACCAACTACGTCCCCTTGC
+HWI-EAS443:3:58:951:1154#0/1
aU`^`a]]`ZWZV`^_a__^]__`_a_[Y[[¥^¥^¥[Q
@HWI-EAS443:3:58:956:118#0/1
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+HWI-EAS443:3:58:956:118#0/1
aaabb_b_bb`aaaaa_aaab¥_`^_a_YQV¥_¥_T_¥_¥
@HWI-EAS443:3:58:970:365#0/1
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+HWI-EAS443:3:58:970:365#0/1
ab_babbaaab_babaaaa_aaaaaaab^`aa`aUY]_a
@HWI-EAS443:3:58:980:811#0/1
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+HWI-EAS443:3:58:980:811#0/1
^^bb`_^b^_aa`bZZ_]_baXMT[Z]¥_]RVPZ¥ZMKJS
@HWI-EAS443:3:58:981:1408#0/1
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+HWI-EAS443:3:58:981:1408#0/1
__¥U`_`ab^]a¥X]^aa^W_¥Y_[_]X[X[___^_XV`
@HWI-EAS443:3:59:1009:1011#0/1
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+HWI-EAS443:3:59:1009:1011#0/1
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@HWI-EAS443:3:59:1011:485#0/1
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+HWI-EAS443:3:59:1011:485#0/1
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@HWI-EAS443:3:59:1040:166#0/1
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+HWI-EAS443:3:59:1040:166#0/1
[`bbaaa_bbb_Z¥^abb`Z`a_^b]b_aaXFTTQZT¥^U
@HWI-EAS443:3:59:1042:447#0/1
CTTCTGATGTGTACTTTTTGATTATGGCCATATGGTCCA
+HWI-EAS443:3:59:1042:447#0/1
abababbaab`b_]abbbbbbbaaaaa_aaaX_^]XR^VZ
@HWI-EAS443:3:59:1082:819#0/1
AATAAAAGAACTGAGAGATCTAATGTCGCAGTCCCGCACT
+HWI-EAS443:3:59:1082:819#0/1
```a^a```bb```[`abab`bbbb`baa`a\_`¥aZRT¥^  
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+HWI-EAS443:3:59:1097:1359#0/1  
¥¥\_Z\_]a\_aa`\_b`\_Q^^`T`bb\_\_¥T¥ZTRU^ZQ  
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+HWI-EAS443:3:59:1105:1398#0/1  
ZWb^¥P\_VXX\_¥\_aZ[]`Za\_¥I¥Xa[abb^RZ\_\_VWSNX  
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+HWI-EAS443:3:59:1159:988#0/1  
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@HWI-EAS443:3:59:1178:861#0/1  
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+HWI-EAS443:3:59:1178:861#0/1  
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@HWI-EAS443:3:59:11:1504#0/1  
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+HWI-EAS443:3:59:11:1504#0/1  
\_\_a`aab`\_`a]U]a^baaa\_aaa]aaaa`a]a^Y\_]V  
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+HWI-EAS443:3:59:1202:556#0/1  
aaa``aaaaaaaaabaabbXaaaa\_aa\_]\_\_]RFV[]  
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+HWI-EAS443:3:59:1213:202#0/1  
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+HWI-EAS443:3:59:1225:1666#0/1  
^¥\_a`\_]Y`aa¥^^aabaa\_]E[a`ba^a^QR[YVPPaTS  
@HWI-EAS443:3:59:1248:169#0/1  
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+HWI-EAS443:3:59:1248:169#0/1  
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+HWI-EAS443:3:59:1289:1816#0/1  
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+HWI-EAS443:3:59:1313:896#0/1  
aabbN`\_\_aaaaab`\_ab`aaaZ`b]a`\_RU]\_ST^UR  
@HWI-EAS443:3:59:1378:551#0/1  
GGCCATATCTTGTCTTCTTTGCCAAAATGAGAAATC  
+HWI-EAS443:3:59:1378:551#0/1  
aa^^`bb`\_Y\_[¥ab]^aa]aa`baa^X]a][a^aUWa]P  
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AGAGAATAATGGACATGATTCCAGAGGAATGAACAAGG  
+HWI-EAS443:3:59:1378:913#0/1  
abaa]bbb\_a`\_`a^bb\_bbaabb]babbabYaa\_W^aa\_



@HWI-EAS443:3:59:138:1111#0/1  
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+HWI-EAS443:3:59:138:1111#0/1  
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@HWI-EAS443:3:59:1430:1461#0/1  
GGGCGATCTGAACCTTTGTCAATAGGGCAAACCAGCGACTG  
+HWI-EAS443:3:59:1430:1461#0/1  
a``\_babbaaaa]^abaaaa¥aaa]^aaaaVaa\_¥¥`\_`  
@HWI-EAS443:3:59:1476:924#0/1  
GCTGTAATTGGGTATCTCATTGCCATCATCCACTTCATTC  
+HWI-EAS443:3:59:1476:924#0/1  
JabaXRWb`a¥\_a``\_Sa\_a`baZb`a`a`Saaa^W`aP  
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CAGACAAGAGAATAATGGACATGATTCCAGAGAGGAATGA  
+HWI-EAS443:3:59:1496:1604#0/1  
^¥b][\_TGOS\_ba`bY]\_ba[\_^X\_a[UU[VV`^PVT]HP  
@HWI-EAS443:3:59:1503:1673#0/1  
CACTCGCGAGATACTCACTAAGACCACTGTGGACCATATG  
+HWI-EAS443:3:59:1503:1673#0/1  
\_a`aa]^a\_WZa`\_a`\_`a`abT]aa`S^XGY]ZRXZ\_]`  
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+HWI-EAS443:3:59:1513:796#0/1  
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@HWI-EAS443:3:59:1535:770#0/1  
GCCCCAACAAAGTACAGTTCATTACCCTAAGGTATATAA  
+HWI-EAS443:3:59:1535:770#0/1  
a``U\_H¥`\_S`\_`G`Z`\_ZWT\_aa\_aTY^\_AS`IXYH]]P  
@HWI-EAS443:3:59:1545:1467#0/1  
CTAATGTGCGAGTCCCGCACTCGCGAGATACTCACTAAGA  
+HWI-EAS443:3:59:1545:1467#0/1  
abbbbbb`ababbaababaababbbb]aab]\_\_^\_¥^S\_RX  
@HWI-EAS443:3:59:1610:618#0/1  
GGTGGGTTCACTTTCAAAGGACAAGCGGATCATCAGTCA  
+HWI-EAS443:3:59:1610:618#0/1  
aaS`\_b\_a`^`aaa\_\_a`a^^`Yaaaa\_\_P]`]VX]YW  
@HWI-EAS443:3:59:1611:97#0/1  
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+HWI-EAS443:3:59:1611:97#0/1  
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@HWI-EAS443:3:59:1666:1307#0/1  
GAATAAAAGAACTGAGAGATCTAATGTGCGAGTCCCGCAC  
+HWI-EAS443:3:59:1666:1307#0/1  
a^Uaaa\_``Y^¥\_]aZ]aaa\_\_a`aWZ``]VSPFPQQFQ  
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+HWI-EAS443:3:59:1685:1480#0/1  
`X`Z¥a\_aa`[\_`aaa\_¥`^\_QR````^`\_AY¥YUPVMY[YQ  
@HWI-EAS443:3:59:1715:1483#0/1  
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@HWI-EAS443:3:59:309:1813#0/1  
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+HWI-EAS443:3:59:309:1813#0/1  
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@HWI-EAS443:3:59:316:1535#0/1  
ATACTCACTAAGACCACTGTGGACCATATGGCCATAATCA  
+HWI-EAS443:3:59:316:1535#0/1  
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+HWI-EAS443:3:59:506:954#0/1  
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+HWI-EAS443:3:59:868:1372#0/1  
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` `` `]¥W`^` abbaababa^` `aa¥Xaaaaa\_]PFY¥ZP  
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^Tb¥] [b¥Q^baaa^`\_b\_aYQVXa^aa¥b¥XX\_V^` BBB  
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+HWI-EAS443:3:5:1224:1644#0/1  
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aa]a`aaaabaaa`aa\_bbaaaaaa\_ba`aa`¥\_\_aa\_\_B  
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+HWI-EAS443:3:5:1291:363#0/1  
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a`b\_a^¥`Y¥^Y\_\_a\_aaaaa`^]Y^^`\_`\_`M`\_a\_S^B  
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+HWI-EAS443:3:61:1223:382#0/1  
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+HWI-EAS443:3:61:141:1429#0/1  
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+HWI-EAS443:3:61:1545:487#0/1  
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aa`\_\_\_\_^¥^\_aaY^¥\_\_a`a\_baaaba`^Z`XKDV^S[LR  
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aa^\_\_aa[a\_] [\_]S`\_]aS\_]XW\_^\_^^[Y]W]Z¥[]  
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a`X^a`ba`\_aa`^a¥a\_`aa^]a``\_\_^\_W¥[UUWWW  
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+HWI-EAS443:3:61:612:157#0/1  
Zabb\_bLbaa¥]``^`\_\_VX\_TRa\_`X^a^X]R¥¥\_`V[¥  
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+HWI-EAS443:3:62:1158:695#0/1  
aaab`]]b[¥V`\_]M[aa```b```\_aa^\_a`\_[\_]`Za  
@HWI-EAS443:3:62:1197:851#0/1  
AGTCGCTGGTTTGGCCCTATTGACAAAGTTCAGATCGCCCC  
+HWI-EAS443:3:62:1197:851#0/1  
`b``\_`^`\_\_`[`a``aa`aaa\_X[]a``Wa\_^Z\_[T]Vaa\_  
@HWI-EAS443:3:62:1198:1951#0/1  
AAAAGAAGTGGAGAGATCTAATGTCGCAGTCCCGCACTCGC  
+HWI-EAS443:3:62:1198:1951#0/1  
abaaS\_aaaabQaaaa\_baab¥XUXUYXVV`ZQWYVM\_\_a  
@HWI-EAS443:3:62:1199:1313#0/1  
GGAGAGACGAGCAGTCAATTGCTGAGGCAATAATTGTGGC  
+HWI-EAS443:3:62:1199:1313#0/1  
aa]`\_`aaa`[[`\_`^U\_a^```V^^Z^¥Z\_¥^`[¥X^Z\_[[  
@HWI-EAS443:3:62:1208:2042#0/1  
GAATGAAGTGGATGATGGCAATGAGATACCCAATTACAGC  
+HWI-EAS443:3:62:1208:2042#0/1  
a`aa¥aaa^```\_\_\_\_\_][FV`a¥\_\_ZX^\_\_\_\_`\_\_^^]\_^`  
@HWI-EAS443:3:62:1216:1336#0/1  
TTTCATTACCAACTACGTCCCCTTGCCCAATTAGCACA  
+HWI-EAS443:3:62:1216:1336#0/1  
\_a`aaa```¥^^a]a``a`[^`]^`^`][¥`aa`^^¥^¥a¥`  
@HWI-EAS443:3:62:1233:1316#0/1  
AAAGAAGTGGAGAGATCTAATGTCGCAGTCCCGCACTCGCG  
+HWI-EAS443:3:62:1233:1316#0/1  
`a`¥¥¥a``aPL]Zaaaa^`b[\_W\_UUU[^XWQ¥NVX\_IX  
@HWI-EAS443:3:62:1299:178#0/1  
TGCTGTAATTGGGTATCTCATTGCCATCATCCACTTCATT  
+HWI-EAS443:3:62:1299:178#0/1  
```bb¥]aabbba¥b`ababbab\_\_a`\_a^a[`Za`[\_`\_`\_`  
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AGTTCTTGAAAGGATGCAGGTGCATTGACTGAAGATCCA
+HWI-EAS443:3:62:1302:625#0/1
_^_a`abbaaaabbaabaab`¥a_aaa_M]aaabb`_aa]
@HWI-EAS443:3:62:141:811#0/1
CTGCTGTAATTGGGTATCTCATTGCCATCATCCACTTCAT
+HWI-EAS443:3:62:141:811#0/1
aabaab_aaaaa`_Vaaaa`^^`_a`¥_a`_`^`_`^^¥]¥
@HWI-EAS443:3:62:1428:585#0/1
AAAAGAAGTGGAGAGATCTAATGTCGCAGTCCCGCACTCGC
+HWI-EAS443:3:62:1428:585#0/1
aaaaaabaaaaaabaaaaabb`_`^ab``a_`]NU__a
@HWI-EAS443:3:62:1430:1194#0/1
GTTCAAATTCATTTTGTGTATAACATTGTGGGATCTTG
+HWI-EAS443:3:62:1430:1194#0/1
a_a`aaaaa_```aaaaaaa_aa```^`aaa`_`_]a`_a_a
@HWI-EAS443:3:62:1437:667#0/1
GTCCCCTTTTCGTTTCATTACCAACTACGTCCCCTTGC
+HWI-EAS443:3:62:1437:667#0/1
a[TWZYDXaVSaXSU[]aXUYT_ZSUV[]^aWWUSVRTZL

@HWI-EAS443:3:62:145:1655#0/1
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+HWI-EAS443:3:62:145:1655#0/1
abbabaa`aaaa`_]aaaa`_^Z]_Waa`a¥[_^^Z__Y
@HWI-EAS443:3:62:145:76#0/1
CTCAGAATGAAGTGGATGATGGCAATGAGATACCCAATTA
+HWI-EAS443:3:62:145:76#0/1
abaab`¥abbbbabbbbabbba_aababaaaaabaa`[W
@HWI-EAS443:3:62:1462:167#0/1
CGTTTTCGTTTCATTACCAACTACGTCCCCTTGCCCAA
+HWI-EAS443:3:62:1462:167#0/1
a`]YV]Y`IUZIXZa]_]`[T]]Q^Y_Ia_]YTVT_GaW]
@HWI-EAS443:3:62:1464:1571#0/1
ATGGAGAGAATAAAAGAACTGAGAGATCTAATGTGCGCAGT
+HWI-EAS443:3:62:1464:1571#0/1
aaaaZa¥^`bbaaaaaaababaaa`a_aaaaa¥_`¥aa]
@HWI-EAS443:3:62:1484:1330#0/1
ATGGCCATATGGTCCACAGTGGTCTTAGTGAGTATCTCGC
+HWI-EAS443:3:62:1484:1330#0/1
`aa]aaa___b`^`]U]¥XWab`__]Z¥SX^]Ua`¥¥]]X
@HWI-EAS443:3:62:1494:605#0/1
TGCAACACTTCAATATAAACTGCCTGTTCCGCCGGCTA
+HWI-EAS443:3:62:1494:605#0/1
a`_`aaaaaa`_`aPa^aabb`a`aaa`a`b^^aa_a]
@HWI-EAS443:3:62:1521:438#0/1
AAAGAACTGAGAGATCTAATGTGCGCAGTCCCGCACTCGCG
+HWI-EAS443:3:62:1521:438#0/1
aaaaaaaa`aaaaaaabaaa¥aa`a`_`a_]Y¥^[__a
@HWI-EAS443:3:62:1543:330#0/1
GGGGTGGAGTCTGCTGTCCTGAGAGATTCTCATTGTTGG
+HWI-EAS443:3:62:1543:330#0/1
aa^[I[a`]`^]`__Z_`^^`Y`^`Z`a`_a^Y___¥VP
@HWI-EAS443:3:62:1549:1309#0/1
GGAGGTTGCCGTTAGCACTTCTTCTTCTTCTTCTGACTGA
+HWI-EAS443:3:62:1549:1309#0/1
`b`abNa__aa[_^^aZNU^b[aaSaa]aab]a`SY][L]
@HWI-EAS443:3:62:1559:647#0/1
CCCCTTTTCGTTTCATTACCAACTACGTCCCCTTGCCC
+HWI-EAS443:3:62:1559:647#0/1
aaa`abbaab^aa^aba`aa]aaa_]^[a_aa`YVV`_a_
@HWI-EAS443:3:62:1568:1736#0/1
GAAGGCACATCTGGGGTGGAGTCTGCTGTCCTGAGAGGAT
+HWI-EAS443:3:62:1568:1736#0/1
`Y`_]Q¥JU¥Z^T__^L_Z¥PZOx^`]Z]YTY^^a_aa_
@HWI-EAS443:3:62:1585:564#0/1
AGGGGACGTAGTGTGGTAATGAAACGAAAACGGGACTCT
+HWI-EAS443:3:62:1585:564#0/1
abbbb`ab[`b`b_bbaR_ab`aaP]XaaaFZ]a¥Zaa^
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CTAATGTGCGCAGTCCCGCACTCGCGAGATACTCACTAAGA

+HWI-EAS443:3:62:158:920#0/1
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@HWI-EAS443:3:62:1598:710#0/1
CTGCTCCCAGCACGTCCCTTGGGTAAAGTCAACACTTCA
+HWI-EAS443:3:62:1598:710#0/1
^a`_`]b¥bb____`^]a^aa_^]a^P_^¥`aa_UX`_W^
@HWI-EAS443:3:62:1617:287#0/1
GGGCGATCTGAACCTTGTCAATAGGGCAAACCAGCGACTG
+HWI-EAS443:3:62:1617:287#0/1
a__aa`_aaY`Uaaaa_]__`_a^_U`_a_¥__^^^`_
@HWI-EAS443:3:62:1633:765#0/1
CCCGTTTTCGTTTCATTACCAACACTACGTCCCCTTGCCC
+HWI-EAS443:3:62:1633:765#0/1
aabb`aab`b]bb`abbba_baaa_aa_aY`aa__[X`a_
@HWI-EAS443:3:62:1639:1001#0/1
CATTATTCTCTGTCTGCTGTAATTGGGTATCTCATTGCC
+HWI-EAS443:3:62:1639:1001#0/1
abbbabbbbabbbabbbabbaabbba``abb`b`aaaabb
@HWI-EAS443:3:62:1650:1267#0/1
CGTTTTCGTTTCATTACCAACACTACGTCCCCTTGCCCAA
+HWI-EAS443:3:62:1650:1267#0/1
abbbbb`bUbbbbbabbbbbbabbba`aaa]baa_aaaa
@HWI-EAS443:3:62:1653:245#0/1
AACTGGATCAATCTCCTGGTTGCCTTTCTGAGAATAGCTG
+HWI-EAS443:3:62:1653:245#0/1
aa`aaaabaaaa_a````a_aa_[a`_¥`_`____`^__`
@HWI-EAS443:3:62:168:1116#0/1
GAATAAAAGAACTGAGAGATCTAATGTCGCAGTCCCGCAC
+HWI-EAS443:3:62:168:1116#0/1
aaa`a^`^`aaaa`^`aaa_aa`])`aZaY`_¥W^`^WZN^
@HWI-EAS443:3:62:1725:1151#0/1
TGCTAATTGGGCAAGGGGACGTAGTGTGGTAATGAAACG
+HWI-EAS443:3:62:1725:1151#0/1
aabaaba`abaa_bb_a`ab_`^a_bba[]`]TT]aU_
@HWI-EAS443:3:62:1754:1907#0/1
AATTGGGCAAGGGGACGTAGTGTGGTAATGAAACGAAAA
+HWI-EAS443:3:62:1754:1907#0/1
aabb¥_b_a`aaaa_aaa_a¥W]aa`U_a[^¥a¥FR]`a_
@HWI-EAS443:3:62:1775:1692#0/1
GTCCCGTTTTCGTTTCATTACCAACACTACGTCCCCTTGC
+HWI-EAS443:3:62:1775:1692#0/1
^_baab]X_]_b_aaa^aab[N^a_]Z]a`VY[YVYVY
@HWI-EAS443:3:62:1784:824#0/1
GTCCCGTTTTCGTTTCATTACCAACACTACGTCCCCTTGC
+HWI-EAS443:3:62:1784:824#0/1
a]_`¥b[¥_aa_W^¥]_]YLV¥YUX¥[[XOS[UYSV[
@HWI-EAS443:3:62:203:463#0/1
AATAAAAGAACTGAGAGATCTAATGTCGCAGTCCCGCACT
+HWI-EAS443:3:62:203:463#0/1
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AGGGGACGTAGTGTGGTAATGAAACGAAAACGGGACTCT
+HWI-EAS443:3:62:209:996#0/1
U`a]ba^a¥[^Ya`aLG][¥`]WHT]__ZNLZUFTL¥L
@HWI-EAS443:3:62:214:1854#0/1
AAAAGAAGTCTGAGATCTAATGTCGCAGTCCCGCACTCGC
+HWI-EAS443:3:62:214:1854#0/1
aaaa_aaa`a_a`a_aaa`a`¥_¥`V[___^RZTUWZPX
@HWI-EAS443:3:62:25:624#0/1
GCATGTACGCCACCATCAAGGGAGCAATTTTACAATCCTG
+HWI-EAS443:3:62:25:624#0/1
¥^]ababbbbabWXa¥¥aa`_`a]_a`_ba_Z]aa]a
@HWI-EAS443:3:62:279:334#0/1
GTCCATTATTCTTGTCTGCTGTAATTGGGTATCTCATT
+HWI-EAS443:3:62:279:334#0/1
aaa_ababbbbaaaaa`aaaaab`aaaa`aU^___Z_¥]
@HWI-EAS443:3:62:27:1213#0/1
AGAGAATAAAAGAACTGAGAGATCTAATGTCGCAGTCCCG
+HWI-EAS443:3:62:27:1213#0/1
R[_]¥HP[[`b`WT^`S]TT¥][`^_Yb]`a_00TV_^¥
@HWI-EAS443:3:62:280:1133#0/1
GAGAAATCCTCTCAGGACAGCAGACTCCACCCAGATGTG
+HWI-EAS443:3:62:280:1133#0/1
aa_a]b`aaaaaaaa`a`aa¥aXa`a_aaaZaVVQ¥¥W_
@HWI-EAS443:3:62:293:934#0/1
GGGCCATTCTATTCCACCATGTTACGGCCAGAGGTGATA
+HWI-EAS443:3:62:293:934#0/1
a`ab_a`aa`Ua^aa`aaa`a¥`¥_Y`VN¥Y[S[[KP
@HWI-EAS443:3:62:307:1837#0/1
TGGGAGAAACCTTGTTTTACGGACCAATTCTCTTTCTAGC
+HWI-EAS443:3:62:307:1837#0/1
aa_baaaababaaa`baaaa`^aa`b]aa`aa`__^a_a
@HWI-EAS443:3:62:307:1884#0/1
GCAGTGTTTATATTGAAGTGTGCACTTAACCCAAGGGAC
+HWI-EAS443:3:62:307:1884#0/1
a`aZ¥^_baa`baa^_]a¥^aaa`]]`aa`a^_]X0^a
@HWI-EAS443:3:62:319:1630#0/1
CAGTGGTCTTAGTGAGTATCTCGCGAGTGCGGGACTGCGA
+HWI-EAS443:3:62:319:1630#0/1
a_SV[TUaa`XYS¥Z]^]a¥¥Z¥W[[Z[_[WNSZXRZZU
@HWI-EAS443:3:62:344:959#0/1
TATTCTTGCCCCACTTCATTTGGGAAAACAATTCCATA
+HWI-EAS443:3:62:344:959#0/1
`aba^]^`a`a`]aa````_`a`^`_P_]`^]a_a^Z
@HWI-EAS443:3:62:374:810#0/1
AGAGGATTGCATGATCAAGGCAGTTAGGGCGATCTGAAC
+HWI-EAS443:3:62:374:810#0/1
_ba`abaa`aba`[ababaaaa]N_N[`¥aa]ZXPTTVRN
@HWI-EAS443:3:62:396:1408#0/1
GGGTATCTCATTGCCATCATCCACTTCATTCTGAGTGCGG

+HWI-EAS443:3:62:396:1408#0/1
`baU`a^ZU]^Xab^NW` [ZP_R[_]X]VaVTTSSS[[X
@HWI-EAS443:3:62:434:451#0/1
AGAGAATAAAAGAACTGAGAGATCTAATGTCGCAGTCCCG
+HWI-EAS443:3:62:434:451#0/1
ababa`ab`_]_^aaaabaaa_[bba[ab[baa`_¥`aa^
@HWI-EAS443:3:62:441:1517#0/1
CTGATGTCAGTATTCTTGCCCCACTTCATTTGGGAAAAC
+HWI-EAS443:3:62:441:1517#0/1
_U^0^VQZZYW¥aRa]`Zaa`_a_ZY_a`_YZS^^YT_``
@HWI-EAS443:3:62:474:1540#0/1
TGGCCGTAACATGGTGAATAGGAATGGCCCAACAACAAG
+HWI-EAS443:3:62:474:1540#0/1
`[`bbb^ab`aa`Xa[X`[````a``]aab^Y¥]a_aa_
@HWI-EAS443:3:62:484:1258#0/1
TTTCTGAAGTGGACAGGGCCGAAGGTACCATGTTTCAACC
+HWI-EAS443:3:62:484:1258#0/1
aa_ba_^^a`]ab`a^]`¥YY`^GS``_a^`_[a`]]
@HWI-EAS443:3:62:50:444#0/1
AGGGGACGTAGTGTGGTAATGAAACGAAAACGGGACTCT
+HWI-EAS443:3:62:50:444#0/1
Vbbbaab`_aa]a¥b_aS]a`a]`a`aTK]RWZ]^U_[_]
@HWI-EAS443:3:62:517:1445#0/1
AAAGAAGTGAAGATCTAATGTCGCAGTCCCGCACTCGCG
+HWI-EAS443:3:62:517:1445#0/1
a¥_]`ab]]a_Z]`aaaaaa`Z`^a`¥Y_aaZa__ZU[]V
@HWI-EAS443:3:62:529:1812#0/1
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+HWI-EAS443:3:62:529:1812#0/1
aaaaabbaaZ]`Zaaa^aaaaa`_aY_a]aa_¥^YaVa_`
@HWI-EAS443:3:62:537:1085#0/1
AAAAGAAGTGAAGATCTAATGTCGCAGTCCCGCACTCGC
+HWI-EAS443:3:62:537:1085#0/1
aabbabb`baaZ^aabb]]`b_ba_baNaa_Za^_aaZ^
@HWI-EAS443:3:62:551:1540#0/1
TGAACAAGGACAAACCCTCTGGAGCAAACAAACGATGCT
+HWI-EAS443:3:62:551:1540#0/1
abbbbbbb]Vabbb_abbba`Y]aa`aabbaba`_ab`
@HWI-EAS443:3:62:565:232#0/1
GAAACCTTGT TTTACGGACCAATTCTCTTTCTAGCATGTA
+HWI-EAS443:3:62:565:232#0/1
a_^a`^`_Z_Y_]____[_^^]]_^^^]]]SZZZ^ZXZ
@HWI-EAS443:3:62:572:515#0/1
ATAAAAGAACTGAGAGATCTAATGTCGCAGTCCCGCACTC
+HWI-EAS443:3:62:572:515#0/1
^^^`^`aab_aaa]aa`aaa^]ab^a`aa`Q]` [ZZP¥[^
@HWI-EAS443:3:62:574:242#0/1
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+HWI-EAS443:3:62:574:242#0/1
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AGGGGACGTAGTGTGGTAATGAAACGAAAACGGGACTCT
+HWI-EAS443:3:62:593:1550#0/1
aa^[aaa_^\\$^aaaaUX`aaYaab___aa`_^_]Y]aX
@HWI-EAS443:3:62:610:1741#0/1
ATTCCATTTTGTGTATAACATTGTGGGATCTTGTGACCA
+HWI-EAS443:3:62:610:1741#0/1
_ababbaabb`aa_aaaa`aaaa^[_a`a`^]]``a
@HWI-EAS443:3:62:652:431#0/1
GTCCCCTTTTCGTTTCATTACCAACTACGTCCCCCTTGC
+HWI-EAS443:3:62:652:431#0/1
aaaaaaaaabbab`aaaaaa`a^aa^a`aa`a]¥_]T]]_
@HWI-EAS443:3:62:654:1394#0/1
TGGAGAGAATAAAAGAACTGAGAGATCTAATGTCGCAGTC
+HWI-EAS443:3:62:654:1394#0/1
_¥]DU]_X¥`a_^`_P_a`a_aaX[`]^\`¥^[RZXUWVV`
@HWI-EAS443:3:62:718:1437#0/1
ATCTAATGTCGCAGTCCCGCACTCGCGAGATACTCACTAA
+HWI-EAS443:3:62:718:1437#0/1
aa`aYaaaVa^[_¥```U_Q^[VV¥WUW^WW^WZWWW¥¥
@HWI-EAS443:3:62:736:345#0/1
TTCCTGATGTGTACTTTTTGATTATGGCCATATGGTCCAC
+HWI-EAS443:3:62:736:345#0/1
`^`]a`]]a¥aWaaaba^`]]`Z^_]ZYTRMNXYTZV]
@HWI-EAS443:3:62:739:1191#0/1
ACCATGGCCACAATTATTGCCTCAGCAATTGACTGCTCGT
+HWI-EAS443:3:62:739:1191#0/1
a`aa]Z]_^Z`__Z¥]]_Saa``[[`¥Z[QXV_]SYZWS
@HWI-EAS443:3:62:73:467#0/1
TTCCCATCACATTGTCGATGGATTCAATCCCCAGTTCTG
+HWI-EAS443:3:62:73:467#0/1
abbb¥`babbbab`b`TV[`]_[X`aa_a`a`T^X]a]`
@HWI-EAS443:3:62:752:1233#0/1
GCACTCGCGAGATACTACTAAGACCACTGTGGACCATAT
+HWI-EAS443:3:62:752:1233#0/1
ababbbbbbab`baabb`a]baaabaaaa]]]``aa]`
@HWI-EAS443:3:62:789:1155#0/1
CTGCTGCTCTGAGAGGATTTCTCATTTTGGGCAAAGAAGA
+HWI-EAS443:3:62:789:1155#0/1
`b```aJ[a_]ZU`^bb]baabaZU_a^Ya```Taaaa`
@HWI-EAS443:3:62:794:1446#0/1
AAAAGAACTGAGAGATCTAATGTCGCAGTCCCGCACTCGC
+HWI-EAS443:3:62:794:1446#0/1
¥a_aaYa[¥^a]aa_[Za^^`a^^`^`aaYaaaZWTUXXT`
@HWI-EAS443:3:62:799:571#0/1
CAGCACGTCCCTTGGGTTAAGTGCAACACTTCAATATAAA
+HWI-EAS443:3:62:799:571#0/1
aaaaaaaaabaaYaa`aaaQa`aa_aaa^^``¥__`]]]``a
@HWI-EAS443:3:62:821:737#0/1
CTGCTGCTCTGAGAGGATTTCTCATTTTGGGCAAAGAAGA

+HWI-EAS443:3:62:821:737#0/1
abababaabbbaba_babbaaabaaaaa`a`aa^]_aa_
@HWI-EAS443:3:62:822:27#0/1
AAAGAAGTCTAATGTCGCAGTCCCGCACTCGCG
+HWI-EAS443:3:62:822:27#0/1
abbba`aaaaaa`aaabaab_a__`aT^`__[LRW]^]]
@HWI-EAS443:3:62:831:1535#0/1
GTGATTATGGAAGTTGTTTTCCCAAATGAAGTGGGGGCAA
+HWI-EAS443:3:62:831:1535#0/1
`]¥_bbbbaba^bI`U¥a`]WZaUV^GMZYVLBBBBBBBB
@HWI-EAS443:3:62:888:1578#0/1
AAAAGAAGTCTAATGTCGCAGTCCCGCACTCGC
+HWI-EAS443:3:62:888:1578#0/1
¥U[VaXXWI`¥^¥UWZZ_ba^^]_YYV^]b_Z[a]^NZN`
@HWI-EAS443:3:62:904:1643#0/1
GGGGACGTAGTGTGGTAATGAAACGAAAACGGGACTCTA
+HWI-EAS443:3:62:904:1643#0/1
abb`aab_aa`_aa_X`a`_aa_^[a`a`_`Z^NQYY`
@HWI-EAS443:3:62:925:174#0/1
AAAAGAAGTCTAATGTCGCAGTCCCGCACTCGC
+HWI-EAS443:3:62:925:174#0/1
ababbaaababaa`a`aa`aa¥`_`a^__^^[[W^^^V
@HWI-EAS443:3:62:927:1114#0/1
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+HWI-EAS443:3:62:927:1114#0/1
`bb`V`bbab`¥]baaab^aa``]a`ba_aba]¥^`aY]Z
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+HWI-EAS443:3:62:959:1367#0/1
aa_^^aaaaa`aaaaaaa`[`a`a_[^`¥^Y[[W]`][
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CTCCCCTTTGCTGCTGCTCCACCAGAACAGAGTAGGATGC
+HWI-EAS443:3:62:979:1795#0/1
abaa`aaaaa]aa^`aa_aa`^^`a[____`_U¥_^_YYV
@HWI-EAS443:3:63:1004:1733#0/1
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+HWI-EAS443:3:63:1004:1733#0/1
[YSab_WYZTa`aaa`a`a]Yabab]^__¥ZY`_^YV`_`
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AAAAGAAGTCTAATGTCGCAGTCCCGCACTCGC
+HWI-EAS443:3:63:1032:850#0/1
VXUTVX`bb`¥¥_¥Z__a`^`]ZM]VZZ]_[L¥N[]YO[
@HWI-EAS443:3:63:1085:232#0/1
GTCCCGTTTTCGTTTTATTACCAACTACGTCCCCTTGCC
+HWI-EAS443:3:63:1085:232#0/1
a]`__b_aaa_b^_a`aa_a]_a__a_a`_`]^W^^_]^V
@HWI-EAS443:3:63:1105:464#0/1
GTGGTCTTAGTGAGTATCTCGCGAGTGCGGGACTGCGACA
+HWI-EAS443:3:63:1105:464#0/1
aaaa_abbbaa^aaa_aa_]^V`X[¥T__^`_¥_]_^_S__

@HWI-EAS443:3:63:1132:1296#0/1
GTCCCCGTTTTCGTTTCATTACCAACTACGTCCCCCTTGC
+HWI-EAS443:3:63:1132:1296#0/1
`HZZ]]V¥]]aa]_____]\`_Y¥]Y¥]_¥[]_Y^¥^^¥Z^Y
@HWI-EAS443:3:63:1159:906#0/1
CTCGCGAGATACTACTAAGACCACTGTGGACCATATGGC
+HWI-EAS443:3:63:1159:906#0/1
aab`aWX`[bY_`__`aa^a`¥a_`^a____[`aY]____]Z
@HWI-EAS443:3:63:121:557#0/1
CACTTCTCCTCCTGGAGTGACATCTGCTCCCAGCACGTC
+HWI-EAS443:3:63:121:557#0/1
aa_aabb`_IRXV^^¥aY^WXYO^]\`aa[_Z``ZUZZVEM
@HWI-EAS443:3:63:1222:631#0/1
GGTGGGTTCACTTTCAAAGGACAAGCGGATCATCAGTCA
+HWI-EAS443:3:63:1222:631#0/1
aaWa`aZ`____aa[U][a`a_`a_Qa`a^_X]_`^__X`_
@HWI-EAS443:3:63:1233:929#0/1
GTTCTTGGAAAGGATGCAGGTGCATTGACTGAAGATCCAG
+HWI-EAS443:3:63:1233:929#0/1
a`aaa`a[``a`_`aaaa`]aaa`a`^`_`aa^¥^W^`
@HWI-EAS443:3:63:1234:256#0/1
GTCCATTATTCTTGTCTGCTGTAATTGGGTATCTCATT
+HWI-EAS443:3:63:1234:256#0/1
a``_`aaaaa_a_aaa^`a^aaX_^^`__^X`_[_SX^^
@HWI-EAS443:3:63:1253:1571#0/1
GAAGTGGATGATGGCAATGAGATACCCAATTACAGCAGAC
+HWI-EAS443:3:63:1253:1571#0/1
a_a`Vaa`a^`aa^`aaa]\`a_a`_`_a]^aW``¥_`a^
@HWI-EAS443:3:63:1277:1763#0/1
AAAAGAAGTGGAGATCTAATGTCGCAGTCCCGCACTCGC
+HWI-EAS443:3:63:1277:1763#0/1
`]\`_bba_`bM_X`aaU`ab_a_Haaaa`GXHT¥N¥_BBBB
@HWI-EAS443:3:63:1290:790#0/1
CTTCCTGATGTGACTTTTTGATTATGGCCATATGGTCCA
+HWI-EAS443:3:63:1290:790#0/1
abbaabb_abab^a`bbbbbaabbaa`^Y¥Z]\`_RTW[Y
@HWI-EAS443:3:63:1293:757#0/1
GTCCCCGTTTTCGTTTCATTACCAACTACGTCCCCCTTGC
+HWI-EAS443:3:63:1293:757#0/1
`L_[_`OQ__Y]_U_YRZXXRW]¥_[X_`WXGGR^_RNV¥
@HWI-EAS443:3:63:12:649#0/1
CCCCGTTTTCGTTTCATTACCAACTACGTCCCCCTTGGCC
+HWI-EAS443:3:63:12:649#0/1
aa]\`aY]^¥_YaYaa¥USaaZZ^Z[[W^PPW]^[]V_XNZ
@HWI-EAS443:3:63:1311:261#0/1
ATTCGTAAGGACACTGTTCCAGCAAATGCGGGATGTGCTT
+HWI-EAS443:3:63:1311:261#0/1
Zababaa`aZOWOQQaLa_P`aaaY_HYGZN¥¥RVQW]BB
@HWI-EAS443:3:63:1321:2017#0/1
CATTGACTGAAGATCCAGATGAAGGCACATCTGGGGTGGGA

+HWI-EAS443:3:63:1321:2017#0/1
^_^¥WabUbabbab]abbbbbaab¥¥_b_]b[a`a`SS_`a
@HWI-EAS443:3:63:1337:231#0/1
CCCCTTTTCGTTTCATTACCAACTACGTCCCCTTGCCC
+HWI-EAS443:3:63:1337:231#0/1
aabbabbbababaaabbaaaba`a_aa_a__`_¥]`a¥`_
@HWI-EAS443:3:63:1343:288#0/1
GGTTGCCCGTTAGCACTTCTTCTTCTTTCTTGACTGATGA
+HWI-EAS443:3:63:1343:288#0/1
ab_baa``b`a`a^a_ababaaaa_aaa`aaa^`aa``a`
@HWI-EAS443:3:63:1397:187#0/1
GTCCCCTTTTTCGTTTCATTACCAACTACGTCCCCTTGCC
+HWI-EAS443:3:63:1397:187#0/1
aaaaab`aba`b_^a`a`Va^_aa^aa`a`]__]Wa^``
@HWI-EAS443:3:63:1397:675#0/1
CGCACTCGCGAGATACTCACTAAGACCACTGTGGACCATA
+HWI-EAS443:3:63:1397:675#0/1
¥_`_`U[FY^_b`a`¥Y`^¥_bY`ZZWaW`XU]__PW^aa
@HWI-EAS443:3:63:1410:1071#0/1
AAAGAAGTGAAGATCTAATGTGCGCAGTCCCGCACTCGCG
+HWI-EAS443:3:63:1410:1071#0/1
abbb_a_ab`^aa_aaaaaaUa_X`a_U_[^_Z`XBBBB
@HWI-EAS443:3:63:1483:1893#0/1
AGAGAATAAAAGAAGTGAAGATCTAATGTGCGCAGTCCCG
+HWI-EAS443:3:63:1483:1893#0/1
ab``ba^abb_]aXaab[_Y^a_aba``[[XX^`W[SY]
@HWI-EAS443:3:63:1489:1072#0/1
GGAAAAGCACTTTTGCATCTTTTTGGAAATGCCTCAAGAG
+HWI-EAS443:3:63:1489:1072#0/1
a^]¥]aY¥¥¥aZZYaWaTa``aa_WYO¥W¥U[WTWVPY
@HWI-EAS443:3:63:148:1087#0/1
GGGACGTAGTGTGGTAATGAAACGAAAACGGGACTCTAG
+HWI-EAS443:3:63:148:1087#0/1
_¥W`a[_aX`__`_U¥H¥0^__Z]`U_^^^YRMN¥aY¥T
@HWI-EAS443:3:63:1490:981#0/1
TGATCATGCAATCCTCTTGTGAGAATACCATGGCCACAAT
+HWI-EAS443:3:63:1490:981#0/1
aaaaa````aaaaa_ab`a`a_aa^a^Y`]__^__a_``
@HWI-EAS443:3:63:1502:346#0/1
CTTCCTGATGTGACTTTTTGATTATGGCCATATGGTCCA
+HWI-EAS443:3:63:1502:346#0/1
aaa^abbbb_abababbbbabbbbbaaa`a_``U[[X_a
@HWI-EAS443:3:63:1535:1763#0/1
CAATGAGATACCCAATTACAGCAGACAAGAGAATAATGGA
+HWI-EAS443:3:63:1535:1763#0/1
`bZ]_bb_ab__a`^bbab`abZ`Zb[_aZ__aaa``b`
@HWI-EAS443:3:63:1643:877#0/1
GTCCCCTTTTTCGTTTCATTACCAACTACGTCCCCTTGCC
+HWI-EAS443:3:63:1643:877#0/1
a_a^aa[aaa¥aZaaaaaaa_aaa_aa`aa¥R[^]]__``

@HWI-EAS443:3:63:1647:927#0/1
GTCCCCGTTTTCGTTTCATTACCAACTACGTCCCCCTTGC
+HWI-EAS443:3:63:1647:927#0/1
a]_a_b` `aaaa_a`aabaa]]aa_a` ____`]a`_a]a[
@HWI-EAS443:3:63:1700:1173#0/1
CGCGAGATACTCACTAAGACCACTGTGGACCATATGGCCA
+HWI-EAS443:3:63:1700:1173#0/1
ab` `]bS]]baaaabaa^X[_`b`_TXYP^FXR^TYYBBB
@HWI-EAS443:3:63:1705:1137#0/1
GGGCGATCTGAACCTTGTCAATAGGGCAAACCAGCGACTG
+HWI-EAS443:3:63:1705:1137#0/1
aa¥^UX¥aa]Zaaaaabaa^Taa¥¥`^_UaXU]Z____T¥`
@HWI-EAS443:3:63:1739:169#0/1
GTTGCCCGTTAGCACTTCTTCTTCTTCTTCTTACTGATGAT
+HWI-EAS443:3:63:1739:169#0/1
a_a_X]]`T]¥_WNQZ_]ZU^^¥^`ZT]^]VZ^_[ZZYU
@HWI-EAS443:3:63:175:283#0/1
GGGACGTAAGTGTGGTAATGAAACGAAACGGGACTCTA
+HWI-EAS443:3:63:175:283#0/1
abbb`_b]`b¥`aab`Y^_aa__b^`_`a__`^¥X0^^XX
@HWI-EAS443:3:63:1769:257#0/1
GGCCGTAACATGGTGGGAATAGGAATGGCCCAACAACAAGT
+HWI-EAS443:3:63:1769:257#0/1
aba¥_Z`^J_Ya`W`aaa_aa_^`¥`^USZZSYaM_]VN
@HWI-EAS443:3:63:176:1925#0/1
CACCTGCATCCTTTCCAAGAACTGTAAGTCGTTTGGTTGC
+HWI-EAS443:3:63:176:1925#0/1
aaab_abb`baa`a`aaaa¥Y`_W[____Xa^]]_ ^YZ]]_
@HWI-EAS443:3:63:1771:680#0/1
GGAAAAGCACTTTTGCATCTTTTTGGAAATGCCTCAAGAG
+HWI-EAS443:3:63:1771:680#0/1
^]aa^Za_a`aa^a`a`aaaaaa_[__^^]`_[RV_`
@HWI-EAS443:3:63:1777:722#0/1
CAGGTGCATTGACTGAAGATCCAGATGAAGGCACATCTGG
+HWI-EAS443:3:63:1777:722#0/1
aabb^a` `a^aa`ab]ba`^`_`^`¥[a`_]_]^^[^^`a
@HWI-EAS443:3:63:184:1282#0/1
GACAAGAGACTGAAATGGTTCAAATTCCATTTTGTGTAT
+HWI-EAS443:3:63:184:1282#0/1
`bbbbbbabba_`bbbbaaaabbaaaab`Yabaaa`a`aaa
@HWI-EAS443:3:63:199:801#0/1
GATGAAGGCACATCTGGGTGGAGTCTGCTGTCCTGAGAG
+HWI-EAS443:3:63:199:801#0/1
^_a`¥____`¥`¥`a_]__^S^]Z` `a]¥¥_]¥Z_ZYU_^Y
@HWI-EAS443:3:63:216:1083#0/1
GGCGTACATGCTAGAAAGAGAATTGGTCCGTAACAAGG
+HWI-EAS443:3:63:216:1083#0/1
abbb`bbbaaaaaaaaa`a^` `aa¥[YV¥_`Waaaa_aa__
@HWI-EAS443:3:63:217:190#0/1
AGAGAATAAAAAGAACTGAGAGATCTAATGTGCGCAGTCCCG

+HWI-EAS443:3:63:217:190#0/1
V^]aKaaaabbb``a_Z^`a`]^`^`[FU]^_`a]]W]Z
@HWI-EAS443:3:63:224:1345#0/1
GTCCACTTCAGAAATCAAGTAAAATAAGGAGGAGAGTTG
+HWI-EAS443:3:63:224:1345#0/1
a_aaaa]¥¥```YW_a¥]]^]Q`]^]Y¥Z^^]a]`Y]]
@HWI-EAS443:3:63:232:81#0/1
TAATGTGCGAGTCCCGCACTCGCGAGATACTCACTAAGAC
+HWI-EAS443:3:63:232:81#0/1
aaa`S_a`_TUQW¥UPU[QR[VSZWSSWUMURWZTSWT
@HWI-EAS443:3:63:237:699#0/1
GAGAGATCTAATGTGCGAGTCCCGCACTCGCGAGATACTC
+HWI-EAS443:3:63:237:699#0/1
aaa^`bbabbbab_``U^W`aa^a`aa`a```^Z¥W¥a
@HWI-EAS443:3:63:252:718#0/1
TAGTGAGTATCTCGCGAGTGC GGACTGCGACATTAGATC
+HWI-EAS443:3:63:252:718#0/1
]TNT]a`Vab_Za]^W¥MW]]_WVX[ZS¥WLGUVZ]UZY
@HWI-EAS443:3:63:260:727#0/1
GTCCCGTTTTCGTTTTATTACCAACTACGTCCCCTTGC
+HWI-EAS443:3:63:260:727#0/1
WV_aaaXJX``¥XZZ^a^[]]XTY[``_PULV][WBBBBB
@HWI-EAS443:3:63:262:1113#0/1
GGCAAGGGGACGTAGTGTGGTAATGAAACGAAAACGGGA
+HWI-EAS443:3:63:262:1113#0/1
a_b_[aab_bab[¥b[a_]_bGTaaR_a^^N¥a¥aJV`[T
@HWI-EAS443:3:63:263:487#0/1
ATCAACTCTCCTTATTTTAACTTGATTTCTGAAGTGG
+HWI-EAS443:3:63:263:487#0/1
a`^`[a_P_a`_a`X]a`aaa```^V__YXa^YRaZ__
@HWI-EAS443:3:63:268:488#0/1
ATTCTTCATACCCTTCATGTACTCTTATTTTCAGTGTTTG
+HWI-EAS443:3:63:268:488#0/1
^bbbaa]babbbabbbbbbabbabbb`abbbb
@HWI-EAS443:3:63:281:150#0/1
TCCCGTTTTCGTTTTATTACCAACTACGTCCCCTTGCC
+HWI-EAS443:3:63:281:150#0/1
a`ZabTXPZ]b_]`_]Y`[a]Y_^Y_^]VXVVUV0]Y^
@HWI-EAS443:3:63:288:1970#0/1
GGAATAGGAATGGCCCAACAACAAGTACAGTTCATTACCC
+HWI-EAS443:3:63:288:1970#0/1
a_^Y]¥RJZaWQY[Y_TO^`ZX^¥PP¥]^`Z^_^Z_]Z
@HWI-EAS443:3:63:306:937#0/1
CGTACATGCTAGAAAGAGAATTGGTCCGTAACAAGGTT
+HWI-EAS443:3:63:306:937#0/1
^_Y_b`_UaX]^`_`a]^U`aaa_[`^]¥aUa_P¥XWXNN
@HWI-EAS443:3:63:310:1193#0/1
CCCGTTTTCGTTTTATTACCAACTACGTCCCCTTGCCC
+HWI-EAS443:3:63:310:1193#0/1
abb^JaWW^`aZZ]]a^Y]^`_]Z_WM]UOXY]_TMNU]_

@HWI-EAS443:3:63:322:276#0/1
GTCCCCGTTTTTCGTTTCATTACCAACTACTCGTCCCCCTTGC
+HWI-EAS443:3:63:322:276#0/1
QRYQ_baTXa[_MVaVXZ`_[W_]aU^aaaZ``]XKKYR
@HWI-EAS443:3:63:356:775#0/1
AAAAGAAGTCTAATGTTCGAGTCCCCGACTCGC
+HWI-EAS443:3:63:356:775#0/1
aZQZ_aaa]XX_WZ]`^^_Y_¥U^Y^Z_VV¥UOYV[ZBBB
@HWI-EAS443:3:63:383:225#0/1
GGCAACCAAACGACTTACAGTTCTTGAAAGGATGCAGGT
+HWI-EAS443:3:63:383:225#0/1
aaa`aaaa`a_`a`a]`^``a`^`^`_[]_UZ^ZY
@HWI-EAS443:3:63:385:1796#0/1
AAAGAAGTCTAATGTTCGAGTCCCCGACTCGCG
+HWI-EAS443:3:63:385:1796#0/1
`^a`^_WV_TWR_S`¥a`IaU`_`VODPa]L]R¥TVHZW
@HWI-EAS443:3:63:433:494#0/1
CTCTTATTTTCAGTGTGGAGGTTGCCGTTAGCACTTC
+HWI-EAS443:3:63:433:494#0/1
aaVZ`baaab_aMb[[XN[Y^`RV_a[aaTR_[MM]_[W
@HWI-EAS443:3:63:434:1101#0/1
ATTGGGTATCTCATTGCCATCATCCACTTCATTCTGAGTG
+HWI-EAS443:3:63:434:1101#0/1
]ab`aV^UZTD[ZXSXa_W¥Z¥VVZ^a_Z¥^ZSVDDS
@HWI-EAS443:3:63:491:2024#0/1
GCTGACTTATCCCTCTCAGCGACATCTCCGTGCTTGGG
+HWI-EAS443:3:63:491:2024#0/1
]UYPZaaW`aSa`a¥Q`]_a`_VV¥_¥ZBBBBBBBBBBB
@HWI-EAS443:3:63:495:83#0/1
CACCAGAAGAGTAGGATGCAATTTTCCTCATTGACTGT
+HWI-EAS443:3:63:495:83#0/1
`babbbbaabbaa`abaaababaaaa`a__aaa`__`Y
@HWI-EAS443:3:63:503:991#0/1
AAAAGAAGTCTAATGTTCGAGTCCCCGACTCGC
+HWI-EAS443:3:63:503:991#0/1
^`Y`^Z`aR`aaaa`aaa`a^`aY^[a_a¥_V[^U[`
@HWI-EAS443:3:63:521:286#0/1
CTAATGTTCGAGTCCCCGACTCGCGAGATACTCACTAAGA
+HWI-EAS443:3:63:521:286#0/1
aab^aa`]aa[Z_a`¥_I¥_¥`a```__a¥[a^YWX^S^
@HWI-EAS443:3:63:52:1739#0/1
GAAGTCTAATGTTCGAGTCCCCGACTCGCGAGA
+HWI-EAS443:3:63:52:1739#0/1
aYa`[¥aY`Za`aa^aR[U]K[^YV]_]UVQ^W[WZ_YVY
@HWI-EAS443:3:63:573:1461#0/1
GAGGATTTCTATTTTGGGCAAAGAAGACAAGAGATATGG
+HWI-EAS443:3:63:573:1461#0/1
^`b`bbbbbbbbbb`aa^bb`a_b^aabbaa]aa`ba_T
@HWI-EAS443:3:63:595:334#0/1
GATCAGGGTTGAGGATACTGGTAAGAGGCAATTCTCCAGT

+HWI-EAS443:3:63:595:334#0/1
aaaaaaaa]a`_`_Z_a_]__W_a_W]¥RY]]Y_XY_^]Y
@HWI-EAS443:3:63:600:1353#0/1
GGGTTCAGTCGCTGGTTTGCCTATTGACAAAGTTCAGAT
+HWI-EAS443:3:63:600:1353#0/1
[`aQK`a`Qbaa`^US^`Z]aa_V]Xa¥W^ZZ]Va^ZR_^
@HWI-EAS443:3:63:619:553#0/1
GTCCCGCACTCGCGAGATACTCACTAAGACCACTGTGGAC
+HWI-EAS443:3:63:619:553#0/1
_abbbabbbaabaaaaa`ab^`_aaa`aaabbaa¥a[]a
@HWI-EAS443:3:63:627:875#0/1
AATGTGCTAATTGGGCAAGGGGACGTAGTGTGGTAATGA
+HWI-EAS443:3:63:627:875#0/1
`aa_SbbaVaaabaabbabaaaabaUaa^a_aa_FX`a[X
@HWI-EAS443:3:63:630:1429#0/1
CTGAGAATAGCTGTTGCTCTTCTCCCAACCATTGTGAATT
+HWI-EAS443:3:63:630:1429#0/1
a`aaa`_ba]aa_[aW`ZX[[WWa]^`UYUVRBBBBBBB
@HWI-EAS443:3:63:643:713#0/1
ATGTGCGAGTCCCGCACTCGCGAGATACTCACTAAGACCA
+HWI-EAS443:3:63:643:713#0/1
aab[a`^^_Xa_`Z__^_aa``_a¥_XUa_W¥^^_XUWZ_
@HWI-EAS443:3:63:646:562#0/1
AAAGAAGTGAAGATCTAATGTGCGAGTCCCGCACTCGCG
+HWI-EAS443:3:63:646:562#0/1
aaaa]aaaabaaa_`aa^aaa^a``a`[[^`^^Q^`_`_`_`
@HWI-EAS443:3:63:661:308#0/1
AAAGAAGTGAAGATCTAATGTGCGAGTCCCGCACTCGCG
+HWI-EAS443:3:63:661:308#0/1
a]Za¥aa`[aa_aaa`aa_aaZaaa_a^[[^R`[_Z_[_]
@HWI-EAS443:3:63:69:1048#0/1
GCGAGATACTCACTAAGACCACTGTGGACCATATGGCCAT
+HWI-EAS443:3:63:69:1048#0/1
[``W_b]aa`a`baaaVaa_Za__^¥^[_a`^a_`^]W_¥
@HWI-EAS443:3:63:704:1524#0/1
CAGAATGAAGTGGATGATGGCAATGAGATACCCAATTACA
+HWI-EAS443:3:63:704:1524#0/1
`aX^aa`XSTXaa`a`_X]aa``]QZ`a]a`[_]aa[a]^
@HWI-EAS443:3:63:712:331#0/1
TCCCGTTTTCGTTTTATTACCAACTACTCGTCCCCTTGCC
+HWI-EAS443:3:63:712:331#0/1
a`_[_aba`b^aaa`a`a`]aaaa`a^a]````Y¥W^_
@HWI-EAS443:3:63:725:568#0/1
CTTGTTCATTCTCTCTGGAATCATGTCCATTATTCTCTT
+HWI-EAS443:3:63:725:568#0/1
abbbbbbbbbbbbababbabbbbaabbabbbba`bbabbab
@HWI-EAS443:3:63:726:212#0/1
GTCCCGTTTTCGTTTTATTACCAACTACTCGTCCCCTTGCC
+HWI-EAS443:3:63:726:212#0/1
a^`_aaW]aa`a[___aa`a_a^[^a`___`S[]]¥¥YU

@HWI-EAS443:3:63:734:618#0/1
AAGAAGTCTGAGATCTAATGTTCGAGTCCCGCACTCGCGA
+HWI-EAS443:3:63:734:618#0/1
`a`aaaaaaZ_aa¥baaa__`aaaXaU`¥[``_`aXDX
@HWI-EAS443:3:63:789:39#0/1
AGCCGTAGACATATGCAAGGCAGCAATAGGGTTGAGGATT
+HWI-EAS443:3:63:789:39#0/1
ababb_aaa_aaa`a`^W]aa^`a__`_``V_a^a^]]
@HWI-EAS443:3:63:795:282#0/1
GTCCCGTTTTCGTTTCATTACCAACTACGTCCCCTTGC
+HWI-EAS443:3:63:795:282#0/1
a_aaab_aaa`b``aaaa`a`^^`_aa`a_`]^`^__Y¥^Z
@HWI-EAS443:3:63:809:930#0/1
GTCCCGTTTTCGTTTCATTACCAACTACGTCCCCTTGC
+HWI-EAS443:3:63:809:930#0/1
a_aaaa¥`aa`a]^`a`aa`__a__`_`^`^`]^`^^]W]W_
@HWI-EAS443:3:63:821:1701#0/1
CTTGTTCATTCTCTCTGGAATCATGTCCATTATTCTCTT
+HWI-EAS443:3:63:821:1701#0/1
a`a¥¥`^`[````_]`^`[0````a`Y`a]````]_a¥Z_Z``
@HWI-EAS443:3:63:833:1819#0/1
GTTTGGAGGTTGCCCGTTAGCACTTCTTCTTCTTCTTGA
+HWI-EAS443:3:63:833:1819#0/1
aZ¥aaab¥a]QF[¥aa^¥a`_a`^^a]_`^aJJ__VSZ^_]`
@HWI-EAS443:3:63:845:214#0/1
CTAATGTTCGAGTCCCGCACTCGCGAGATACTCACTAAGA
+HWI-EAS443:3:63:845:214#0/1
abbbbb`bbabbaaaa`Y_aaaaa^`_]Z¥``^^^^^Y
@HWI-EAS443:3:63:859:279#0/1
GTTTCATTACCAACTACGTCCCCTTGCCCAATTAGCAC
+HWI-EAS443:3:63:859:279#0/1
a¥aa`aaaa`a```a`a`Z`a__`^`_]`_¥V^^U[Y
@HWI-EAS443:3:63:888:349#0/1
ATCATTCTCATTCTCCTCCTGGAGTGTACATCTGCTCC
+HWI-EAS443:3:63:888:349#0/1
aaaaaaabaaaaabaaaaababa`a_a¥a`_a``a`^`_
@HWI-EAS443:3:63:901:1516#0/1
GCTGTAATTGGGTATCTCATTGCCATCATCCACTTCATTC
+HWI-EAS443:3:63:901:1516#0/1
VZ[`Ub]a_W_``a_`]bbb[[]ab]babbb_Za¥^`^aba
@HWI-EAS443:3:63:904:1529#0/1
AGAGAATAAAAGAACTGAGAGATCTAATGTTCGAGTCCCG
+HWI-EAS443:3:63:904:1529#0/1
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+HWI-EAS443:3:63:911:949#0/1
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@HWI-EAS443:3:63:949:1589#0/1
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+HWI-EAS443:3:63:949:1589#0/1
]`Z¥`_WZ`T_VO_WTXVHWXZW[Z^W[Z]XYT0aZ___¥
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+HWI-EAS443:3:63:974:1207#0/1
a`a`abaaaba_^`aa`a_a`Y¥Y_aa_]Y_[¥^_[Y]
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a`_a`b`bbaa_bbbbabababb`baba^^aaaaa`X]a`
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@HWI-EAS443:3:64:1004:943#0/1
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+HWI-EAS443:3:64:1004:943#0/1
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CTGCTGTAATTGGGTATCTCATTGCCATCATCCACTTCAT
+HWI-EAS443:3:64:1036:355#0/1
a_a```^Y]a^a[`a¥Y`^a¥aa][^aXa_aa__a___`
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+HWI-EAS443:3:64:1040:1468#0/1
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+HWI-EAS443:3:64:1097:1924#0/1
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+HWI-EAS443:3:64:1130:281#0/1
aa`aabaa_aaaaaZ[_]STU]____^ZZ_^¥^W[^¥W[[[
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+HWI-EAS443:3:64:1132:1361#0/1
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@HWI-EAS443:3:64:1169:1352#0/1
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+HWI-EAS443:3:64:1169:1352#0/1
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_Z]]ab^aaa_aa]Y_aaa`^X__^[_aaZ]T^Z[`^TX¥
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+HWI-EAS443:3:64:1295:1426#0/1
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GTACTTTTTGATTATGGCCATATGGTCCACAGTGGTCTTA
+HWI-EAS443:3:64:1296:616#0/1
`_]`aaaaa¥aa[_]^]SV^W_^[QV_YZ]_X¥_YO]]Q
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+HWI-EAS443:3:64:1318:1091#0/1
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+HWI-EAS443:3:64:1360:362#0/1
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+HWI-EAS443:3:64:140:1099#0/1
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+HWI-EAS443:3:64:1420:1664#0/1
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+HWI-EAS443:3:64:1450:285#0/1
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+HWI-EAS443:3:64:1452:965#0/1
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+HWI-EAS443:3:64:1467:1056#0/1
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a`aa`bba^Z`abbaab`^_^¥aXT_a_aaa[_a`aa0`
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+HWI-EAS443:3:64:1595:1291#0/1
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+HWI-EAS443:3:64:1607:1653#0/1
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¥abb``Wa¥aaX^bTa``a]_aa`_`Z``Y]X¥¥]^
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+HWI-EAS443:3:64:1616:1397#0/1
¥¥ba^]b]^`_¥_[FRa[aa¥¥`[b]V_aSZYU_¥`^H_
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+HWI-EAS443:3:64:1626:1577#0/1
aabb^babbaZaaa_`_`a_baa_aa^^`^[]`L``[Y[]
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+HWI-EAS443:3:64:163:557#0/1
a`aa`a`aa^aaa_a__a^`a^`__]^`T^TWT]^ZVV
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`__a`aa`aa_aa]_aa_`¥aY]aVV[__^b[]^]YZ¥]0
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+HWI-EAS443:3:64:1683:1556#0/1
¥a]^__Z__`¥¥VZ]^]QW¥Za_Y_`ZaX`^^`VXX_RZU
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+HWI-EAS443:3:64:1765:679#0/1
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+HWI-EAS443:3:64:199:783#0/1
aa^T`a`[^ab`W``T[aaaa`V¥`P^__`^^[[Z[^R
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GAGAATAATGGACATGATTCCAGAGAGGAATGAACAAGGA
+HWI-EAS443:3:64:262:441#0/1
¥]NX_Y```a`^¥^`a]WY[]^a]`_aa_``[]`Y¥]¥^_
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+HWI-EAS443:3:64:263:104#0/1
aaaa^a`¥`aaaaa___a`_`a_]`__a`Z][Z`_]Y]]
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+HWI-EAS443:3:64:265:1961#0/1
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+HWI-EAS443:3:64:293:1911#0/1
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+HWI-EAS443:3:64:300:1511#0/1
^`^Zaa_[a_TH]`a`W]^aX]VY_aZ[Z¥S]GYV_Z[S
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GAACTGGGGAATTGAATCCATCGACAATGTGATGGGAATG
+HWI-EAS443:3:64:322:1083#0/1
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+HWI-EAS443:3:64:32:299#0/1
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+HWI-EAS443:3:64:381:316#0/1
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+HWI-EAS443:3:64:392:1662#0/1
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+HWI-EAS443:3:64:40:348#0/1
_`__Z__Z]a]aa[¥`¥W[```Va`]¥SR]¥[NYGXW_¥YT
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+HWI-EAS443:3:64:434:208#0/1
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+HWI-EAS443:3:64:553:1674#0/1
a`^^ab^^```a[aaaa]a_a`a```a__`¥_`_``_a^`
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_X`^S`aa`b`¥S`b`T^b`^b]aa^QZ]^aa]^`][
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+HWI-EAS443:3:64:742:1449#0/1
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+HWI-EAS443:3:64:756:1681#0/1
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+HWI-EAS443:3:64:757:1290#0/1
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+HWI-EAS443:3:64:823:1422#0/1
aab`a`_baba_aaaa`Ybaaaa`a`[ba_a`_a`_[-``
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+HWI-EAS443:3:64:926:1277#0/1
a`aa_aa`aa`a`aaaa_aa_a`a`__`^`¥^^`__Y[
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+HWI-EAS443:3:64:983:1432#0/1
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+HWI-EAS443:3:65:1009:1065#0/1
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+HWI-EAS443:3:65:101:329#0/1
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_T_VW`aZa_a`_X__aa^^aa]`[_`a_```a_Y_]V[
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a`^¥V_Y^ba`Z]baaaaa`abYa]Y]`Y`[_Y_Za]_[R
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+HWI-EAS443:3:65:356:1217#0/1
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aa`_a[_aaaaaaa__a_aaaZ`¥_aa¥¥`^`¥T¥_Z^_
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+HWI-EAS443:3:65:71:1639#0/1
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+HWI-EAS443:3:65:842:1315#0/1
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IP__]^Y`^QXa`aaa`^`^Ya`a¥a_Y`WR_WTa[¥^¥
@HWI-EAS443:3:66:1302:13#0/1
AAGAAGTGGAGATCTAATGTCGCAGTCCCGCACTCGCGA
+HWI-EAS443:3:66:1302:13#0/1
abb_babb`b`aaa_ba`bba`a_aa[Za¥_a`^UY¥`¥
@HWI-EAS443:3:66:1317:128#0/1
GTGGAGTCTGCTGTCCTGAGAGGATTTCTCATTTTGGGCA
+HWI-EAS443:3:66:1317:128#0/1
a^``]a`_`aYa[T_^]_[_Z`_Q[`_U`XX^[]____TRU
@HWI-EAS443:3:66:1331:620#0/1
ATACCCAATTACAGCAGACAAGAGAATAATGGACATGATT
+HWI-EAS443:3:66:1331:620#0/1
aabaa_aaaaaa``aa`_a`aa``_aaaaa`a`aa`____
@HWI-EAS443:3:66:1339:224#0/1
CCCGTTTTCGTTTCATTACCAACTACGTCCCCTTGGCC
+HWI-EAS443:3:66:1339:224#0/1
a_]XXab`ZZ`aa_aaabaU]SW_Ua`a]]][P`U`[QWP[
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+HWI-EAS443:3:66:1350:204#0/1
aa`abaabaaaaWaaaaaba_ab^aaa`_`aaaa`_`^N
@HWI-EAS443:3:66:1350:626#0/1
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+HWI-EAS443:3:66:1350:626#0/1
aa`bbabaaababba`Y`]baaaa_aaa__a`a`a^_`^`
@HWI-EAS443:3:66:1366:616#0/1
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+HWI-EAS443:3:66:1366:616#0/1
^_]`a`a^a__X`aVV`]`¥¥`aY^`R_YXY]V¥[VVVLY
@HWI-EAS443:3:66:1368:201#0/1
CTCGGAGATACTACTAAGACCACTGTGGACCATATGGC
+HWI-EAS443:3:66:1368:201#0/1
aaaaa_X__a^`__^`aaa]^_a`aY`[___]^^^]]U
@HWI-EAS443:3:66:1377:276#0/1
GAACTGTACTTGTGTTGGGCCATTCCTATTCACCATGT
+HWI-EAS443:3:66:1377:276#0/1
a[_`a`^_]aaa]a^_a`__Z^_]`[[^^__^[[QVT]¥U
@HWI-EAS443:3:66:1389:907#0/1
CTGGGGTGGAGTCTGCTGTCCTGAGAGATTTCTCATTTT
+HWI-EAS443:3:66:1389:907#0/1
Vbbbba`ba`]_]b]bbb¥`bbb`abaaaabbab[_aab_
@HWI-EAS443:3:66:1392:530#0/1
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+HWI-EAS443:3:66:1392:530#0/1
`aaaa`¥b`ab_R^aaa[_Y_aa]a¥Z]^_a[_`_-]__
@HWI-EAS443:3:66:1413:271#0/1
TGCTGGATCAGACCGAGTGGTATCACCTCTGGCCGTA
+HWI-EAS443:3:66:1413:271#0/1
abababa`abaaa`^a[a^aa_U_]RXUX__¥^]WU]WZ
@HWI-EAS443:3:66:1446:1325#0/1
GATCTTGACCATTGAATTTTCAATTTCCAGTTCCT
+HWI-EAS443:3:66:1446:1325#0/1
^b^X`a`_a`^baaaaaa`__`Wa_aaa^aZ``[_WY`
@HWI-EAS443:3:66:1458:369#0/1
AAAAGAAGTCTAATGTCGAGTCCCGCACTCGC
+HWI-EAS443:3:66:1458:369#0/1
aaaa`]a`baaaaa__`a_aaa_`^`a`a^V]__^]XU]^]
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GCGAGATACTACTAAGACCACTGTGGACCATATGGCCAT
+HWI-EAS443:3:66:1484:766#0/1
ababbbbaabababaaaa`ab`_^Zaaa`aaaa``^¥]]¥
@HWI-EAS443:3:66:1496:1005#0/1
CAGAATGAAGTGGATGATGGCAATGAGATACCCAATTACA
+HWI-EAS443:3:66:1496:1005#0/1
a_¥¥_QUWYXZTYZaXROXRVA¥`a_ZLVSWTUV^^`PU^
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+HWI-EAS443:3:66:1501:406#0/1
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+HWI-EAS443:3:66:1576:410#0/1
aaaaaaaa_[X¥`[_`¥^_X[]aa_a`^a_T¥S¥Y¥_
@HWI-EAS443:3:66:1577:1609#0/1
TCCCGTTTTCGTTTCATTACCAACTACGTCCCCTTGCC
+HWI-EAS443:3:66:1577:1609#0/1
a^`a``aaaSX_^Z¥baaa`aaX^a[_`]YX¥`TRWZWJ
@HWI-EAS443:3:66:1583:1145#0/1
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+HWI-EAS443:3:66:1583:1145#0/1
aaaaaa_aaaaba____aa_`T¥]Z¥¥_____ZYX¥¥^W]Z
@HWI-EAS443:3:66:1586:1884#0/1
CAACACTTCAATATAAACACTGCCTGTTCCGCCGGCTACT
+HWI-EAS443:3:66:1586:1884#0/1
aaba^]abb`ababbbbabaaaa_`^_aaabaa__^`_Z
@HWI-EAS443:3:66:1621:400#0/1
AAAAGAAGTGAAGATCTAATGTCGCAGTCCCGCACTCGC
+HWI-EAS443:3:66:1621:400#0/1
abb`a`a`baa`aab^bbYba_]b_a]YR¥]a_`Na[X^
@HWI-EAS443:3:66:1622:501#0/1
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+HWI-EAS443:3:66:1622:501#0/1
aa`a_aaWa`aU[a^a¥_XW`_¥`^_X`¥_TX^__^Y]_]_
@HWI-EAS443:3:66:1627:318#0/1
CGGCTACTGGGAGAAACCTTGTTCACGGACCAATTCTCT
+HWI-EAS443:3:66:1627:318#0/1
abbabaZaaab_b]`aY`aa^[a`aa[aa_W^_`a^KYT]
@HWI-EAS443:3:66:1640:674#0/1
GAACAAGGACAAACCCTCTGGAGCAAAACAAACGATGCTG
+HWI-EAS443:3:66:1640:674#0/1
aaaH¥_a_¥aa_]NLTZ^VX_^aU`_[¥U¥Z_N_[W^U^_
@HWI-EAS443:3:66:1665:1199#0/1
CTCTAACCTTAAAAATCGGTCAATACTCACTACCACTCT
+HWI-EAS443:3:66:1665:1199#0/1
`babbaaaabbabaaabaaa__aaaaaaaa_aa[_a_a`a
@HWI-EAS443:3:66:1669:305#0/1
TGCTGTAATTGGGTATCTCATTGCCATCATCCACTTCATT
+HWI-EAS443:3:66:1669:305#0/1
abaab_aabaaba^aa_a`aaa^`Z`aYa_Zaa_a`[Z``
@HWI-EAS443:3:66:1705:982#0/1
GGGAGATCAATGGCCCTGAGTCAGTGCTAGTCAACTTA
+HWI-EAS443:3:66:1705:982#0/1
aa`^a_a``a``__]_`_]`]^__X_]^Z^Z[[^][R[]]
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GTCCCGTTTTCGTTTCATTACCAACTACGTCCCCTTGCC
+HWI-EAS443:3:66:1780:1298#0/1
Y]UJYY`a`]RY]¥YX^Z_¥SQ]]¥^S[_YRHOTPUVFOX
@HWI-EAS443:3:66:1784:1822#0/1
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+HWI-EAS443:3:66:1784:1822#0/1
a^a[a`baa]YZ`^_aaa`[][_`__aaZZN]^T^VVYYU
@HWI-EAS443:3:66:178:1450#0/1
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+HWI-EAS443:3:66:178:1450#0/1
aaW_]¥X_[_]ba`U^R]S`P`a`MLMJU]¥`[aZXJONP
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CAATTACAGCAGACAAGAGAATAATGGACATGATTCCAGA
+HWI-EAS443:3:66:208:601#0/1
_a`a_Z¥aaa_]TY¥]`M`a`[Z[aZTYaZ[[U]Z¥¥_`^
@HWI-EAS443:3:66:217:342#0/1
ATAAAAGAACTGAGAGATCTAATGTCGCAGTCCCGCACTC
+HWI-EAS443:3:66:217:342#0/1
abbaabbaaaa`^]aaaaaa`aa_`_`a^`__`^P¥^Z
@HWI-EAS443:3:66:235:886#0/1
CCCGTTTTTCGTTTCATTACCAACTACGTCCCTTGCCC
+HWI-EAS443:3:66:235:886#0/1
abaa`a[`aa^a_¥Ta^aa`dM`^_a_]_U`_^XV]]^
@HWI-EAS443:3:66:243:392#0/1
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+HWI-EAS443:3:66:243:392#0/1
¥`^¥aa`¥Za``ab`^a¥^aaaaaaaa^`^aaa^aaa^aW
@HWI-EAS443:3:66:245:407#0/1
GCTGTAATTGGGTATCTCATTGCCATCATCCACTTCATTC
+HWI-EAS443:3:66:245:407#0/1
_``¥WW_a¥¥__^b^`^aaa`]a_]ab`a¥Z`]Z`a_``
@HWI-EAS443:3:66:295:1168#0/1
TCCCGTTTTTCGTTTCATTACCAACTACGTCCCTTGCC
+HWI-EAS443:3:66:295:1168#0/1
aba_¥Z`^`^aa^_`_`Y^ba`a_aba`_USaW¥]_¥¥¥]
@HWI-EAS443:3:66:301:723#0/1
CAGAATGAAGTGGATGATGGCAATGAGATACCCAATTACA
+HWI-EAS443:3:66:301:723#0/1
aba`aab`ab]aa_aa_aaa_`[aa_aaa_a`a`a`^_
@HWI-EAS443:3:66:319:1722#0/1
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+HWI-EAS443:3:66:319:1722#0/1
aaa]a_Y`aaaaaa_aaa`¥¥a`_Ta_0]X``_YYLS^WR
@HWI-EAS443:3:66:326:1923#0/1
CTGTGTGCTGTGGCACATTTCCAAGAGAGATGCTAATGGG
+HWI-EAS443:3:66:326:1923#0/1
a`_^_X```¥`X`^]`^`_`a^¥`^^_[W]^^^XUVV
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GTCCCGTTTTTCGTTTCATTACCAACTACGTCCCTTGCC
+HWI-EAS443:3:66:328:2012#0/1
a_bbab`ab`a`^aaa`a_aaab`aaa`aaSYaaa_YXY^
@HWI-EAS443:3:66:332:1276#0/1
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+HWI-EAS443:3:66:332:1276#0/1
aab_``baXZaaZaaZYaS^aa^a`WaaaaZ`aa`a^^a

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+HWI-EAS443:3:66:341:773#0/1
ab_[N]abaabab_a`^]U[aa[ZH__aaa`[aUZ`ZVZ
@HWI-EAS443:3:66:34:1985#0/1
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+HWI-EAS443:3:66:34:1985#0/1
aaaa_``_a_a]aU`_a`a`^_Y^Xa`^U_^_Y]U]X]WX
@HWI-EAS443:3:66:400:160#0/1
AATGTGCGAGTCCCGCACTCGCGAGATACTCACTAAGACC
+HWI-EAS443:3:66:400:160#0/1
``_a_aa_W]¥¥`^^aU_ZZ¥WYQPRRYPUZQTZPVNUUW
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GAGAAACCTTGTTTTACGGACCAATTCTTTCTAGCATG
+HWI-EAS443:3:66:40:891#0/1
W]¥_Z`_XXR_abb_WO_T^¥`_¥_b^¥]b`^^ZZ`_]a^
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+HWI-EAS443:3:66:424:1363#0/1
`_aaabbbabaa`_aaa`aaaaaa`_[aaaa`a`Uaaa
@HWI-EAS443:3:66:431:82#0/1
GTTCTTGAAAGGATGCAGGTGCATTGACTGAAGATCCAG
+HWI-EAS443:3:66:431:82#0/1
a]a`a`^`aX`_a`__a^^`^Q]^¥`¥^_¥^_Y`^¥Y[WW¥
@HWI-EAS443:3:66:454:1200#0/1
ATCTGCTCCCAGCACGTCCCTTGGGTTAAGTGCAACACTT
+HWI-EAS443:3:66:454:1200#0/1
aaba_a`bab`a`a`_aa_¥`¥[_W_aa_QY__¥`_Z¥W
@HWI-EAS443:3:66:467:496#0/1
CCCGTTTTCGTTTTATTACCAACTACGTCCCTTGCCC
+HWI-EAS443:3:66:467:496#0/1
`babaaaaabaaaZY^aaaa_aa``aaa[[`a__]``¥`
@HWI-EAS443:3:66:483:1040#0/1
GTCCCGTTTTCGTTTTATTACCAACTACGTCCCTTGCC
+HWI-EAS443:3:66:483:1040#0/1
aSaabb^^abaaaa_ab`aab^aa`aa]Z]^`^`^^¥¥U
@HWI-EAS443:3:66:488:454#0/1
AATTGGGCAAGGGGACGTAGTGTGGTAATGAAACGAAAA
+HWI-EAS443:3:66:488:454#0/1
¥¥_abbab````baS_ba`b_a`b_ZG_aSR¥V`[`^]_X
@HWI-EAS443:3:66:533:890#0/1
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+HWI-EAS443:3:66:533:890#0/1
aba`YQa`a`aXNa`_a`SXNN_aY^a^[a[¥a_`_XW[_
@HWI-EAS443:3:66:568:624#0/1
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+HWI-EAS443:3:66:568:624#0/1
aa^aa__aa_]Za^¥TSTUZSX`]a]S]U__YRUVVZY[V
@HWI-EAS443:3:66:638:1825#0/1
GTGGCGTACATGCTAGAAAGAGAATTGGTCCGTAACAA

+HWI-EAS443:3:66:638:1825#0/1
a^[_]VPY_^¥^[YWZ^^`QZX`¥P[UL¥`V^¥¥`_a^
@HWI-EAS443:3:66:648:858#0/1
CTTCCTGATGTGTACTTTTTGATTATGGCCATATGGTCCA
+HWI-EAS443:3:66:648:858#0/1
aabbbbaabVaaaaabbbbaabab_]`bbb[`^JWQ`X^
@HWI-EAS443:3:66:659:1039#0/1
CTCGCGAGATACTCACTAAGACCACTGTGGACCATATGGC
+HWI-EAS443:3:66:659:1039#0/1
aa`[ba[aa`Y`aa`a_aa`a_a``_aZ^¥¥__V^`^__^
@HWI-EAS443:3:66:661:1831#0/1
CGCACTCGCGAGATACTCACTAAGACCACTGTGGACCATA
+HWI-EAS443:3:66:661:1831#0/1
aaa_aaa_a___a```a_aa__a^aaa`_ZY`]^^_]^^
@HWI-EAS443:3:66:71:1040#0/1
AGAGAATAAAAGAACTGAGAGATCTAATGTCGCAGTCCCG
+HWI-EAS443:3:66:71:1040#0/1
]aaaaabbaaa¥]aaaaaa`aa^aaa^a_a``]``U
@HWI-EAS443:3:66:724:1051#0/1
CTCCAGGATTGTAATGCTCCCTTGATGGTGGCGTACA
+HWI-EAS443:3:66:724:1051#0/1
QY`aaYTW^abMSW[¥X_VZ^Ta^_U_QX^[D]^`^U¥Z¥
@HWI-EAS443:3:66:775:2006#0/1
TGGTATTCTCACAAGAGGATTGCATGATCAAGGCAGTTAG
+HWI-EAS443:3:66:775:2006#0/1
`aYVa]_a]aaa^a`¥baaaaaab__a^[_aa__a_0]^X
@HWI-EAS443:3:66:779:294#0/1
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+HWI-EAS443:3:66:779:294#0/1
^`_`^^_ba^Z]__a]aa``_FXa_aa[¥Y`]YSU^Q]¥
@HWI-EAS443:3:66:800:997#0/1
ACTTCAATATAAACTGCCTGTTCCGCCGCTACTGGGA
+HWI-EAS443:3:66:800:997#0/1
Z_`XVOXY)`ab_]a`bb`b`UIR]_¥W`aa¥IVTYQ[X
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+HWI-EAS443:3:66:812:1008#0/1
aa_aaaaaaba]_aaaa`_aa`__aaa`a`a_a`_Z^^a^
@HWI-EAS443:3:66:812:387#0/1
GCTGGATCAGACCGAGTGATGGTATCACCTCTGGCCGTAA
+HWI-EAS443:3:66:812:387#0/1
aaaaaa`abaa^b_a`_a`¥aaZ^__`[_`YY¥¥`[_W_]`
@HWI-EAS443:3:66:820:1076#0/1
GTCCCGTTTTTCGTTTCATTACCAACTACGTCCCTTGC
+HWI-EAS443:3:66:820:1076#0/1
]F_X_] [a_aaaPHXa]UXaaa]BBBBBBBBBBBBBBBB
@HWI-EAS443:3:66:821:515#0/1
GCCATATGGTCCACAGTGGTCTTAGTGAGTATCTCGCGAG
+HWI-EAS443:3:66:821:515#0/1
abaa`[_`Y¥abaaaa¥`¥X[a`V^V]__R^¥a`_]_YX¥

@HWI-EAS443:3:66:896:884#0/1
AAGAACTGTAAGTCGTTTGGTTGCCTTGTTGTAATTGAAT
+HWI-EAS443:3:66:896:884#0/1
^`a]¥aab_aaa_`````^ [P^^`^`aa[a`M]Y[[a¥^`
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AGGGTTTGTATCAACTCTCCTCTTATTTTAACTTGATTT
+HWI-EAS443:3:66:900:1387#0/1
a``aX`bb[`aaaaabaaaaaaaaabaaaa`a`_a`
@HWI-EAS443:3:66:919:1490#0/1
CACCATCCTTACTCCTCCAATCTGTGTGCTGTGGCACATT
+HWI-EAS443:3:66:919:1490#0/1
a^_YX¥]^` [¥¥UT[¥RV_¥][QaUZ^]UQ^YY]_Z]_Z¥
@HWI-EAS443:3:66:938:1266#0/1
CATATCTCTTGTCTTCTTTGCCAAAATGAGAAATCCTCT
+HWI-EAS443:3:66:938:1266#0/1
Yaaaa`a^`¥Z`¥`a`_[]` `a^`]]` _`Z_`¥Z^`_
@HWI-EAS443:3:66:94:1083#0/1
CTGCTGTAATTGGGTATCTCATTGCCATCATCCACTTCAT
+HWI-EAS443:3:66:94:1083#0/1
aabbaaW]_baa`]Uaaab_¥_` `a]T_`^V^` `a]Y]Z
@HWI-EAS443:3:66:959:1516#0/1
CTGCTGTCTGAGAGGATTTCTCATTGTTGGCAAAGAAGA
+HWI-EAS443:3:66:959:1516#0/1
aaaaa`^aaaaa`aa_aa`Z^a`aa` `^`_a`_`a^`_
@HWI-EAS443:3:66:971:1054#0/1
GTTGCCCGTTAGCACTTCTTCTTCTTCTTGACTGATGAT
+HWI-EAS443:3:66:971:1054#0/1
aZ]`^aa`_a^`aa^aa`a`aaa_a`a_a^aa__`^a`__
@HWI-EAS443:3:66:985:862#0/1
GTGGAGTCTGCTGTCCTGAGAGGATTTCTCATTGTTGGGCA
+HWI-EAS443:3:66:985:862#0/1
aX` `¥^`[V` `][XR[V¥NTZ`]QX_`¥Y^Z]¥]^X_]VW
@HWI-EAS443:3:67:1009:712#0/1
GCCGTAGACATATGCAAGGCAGCAATAGGGTTGAGGATTA
+HWI-EAS443:3:67:1009:712#0/1
a`ab_aaaa^¥aZ[`__a__aaZ^a`a`_T`^Va_ZZ^[
@HWI-EAS443:3:67:100:1995#0/1
CAATGAGATACCCAATTACAGCAGACAAGAGAATAATGGA
+HWI-EAS443:3:67:100:1995#0/1
a`a]H^]a¥babaab` `[aV^` `a]a`_`RTV]__` [YPa
@HWI-EAS443:3:67:1012:1196#0/1
GTCCCCTTTTCGTTTCATTACCAACTACGTCCCCTTGC
+HWI-EAS443:3:67:1012:1196#0/1
^^ba`_Zbaa`a`T]_bbaa` `a[` [a_Ua^a_a_]`a
@HWI-EAS443:3:67:1012:663#0/1
AAAGAACTGAGAGATCTAATGTGCGAGTCCCGCACTCGCG
+HWI-EAS443:3:67:1012:663#0/1
_aa_TU[a]aa`a[[`b`V` `P^]_V¥S_`aaTP¥¥WY]_
@HWI-EAS443:3:67:1022:416#0/1
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+HWI-EAS443:3:67:1022:416#0/1
abbbbbbabbbbabaaa`aba`aaaaaaaaaaaaaaaa
@HWI-EAS443:3:67:1083:138#0/1
TCCCGTTTTTCGTTTCATTACCAACTACGTCCCCTTGCC
+HWI-EAS443:3:67:1083:138#0/1
a`X`baaa`X`^a`^ab]a[Y^`V^aYa`^Z_ZZ^_TT]X
@HWI-EAS443:3:67:1107:822#0/1
ATAAAAGAAGTCTAATGTCGCAGTCCCGCACTC
+HWI-EAS443:3:67:1107:822#0/1
aa^^`a`baaaaaaaaa`aab^``aaa¥a`a_^[[^^
@HWI-EAS443:3:67:1113:603#0/1
AAAAGAAGTCTAATGTCGCAGTCCCGCACTCGC
+HWI-EAS443:3:67:1113:603#0/1
a_^`^_¥a``b¥a``aabaa`b[Z]_`¥X¥^^Y[T]_[]]
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+HWI-EAS443:3:67:1119:1740#0/1
a_H_VL]a]__aa`¥[_¥¥[a[Q_^`__VZYX_^Z]_`_
@HWI-EAS443:3:67:1138:1171#0/1
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+HWI-EAS443:3:67:1138:1171#0/1
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@HWI-EAS443:3:67:1143:694#0/1
CGCGAGATACTACTAAGACCACTGTGGACCATATGGCCA
+HWI-EAS443:3:67:1143:694#0/1
]L]a[¥Sa_Sa_]_]_a¥WL]P`VNYP SZ_QFV_JJ¥LPW
@HWI-EAS443:3:67:1166:410#0/1
TAATGTCGCAGTCCCGCACTCGCGAGATACTACTAAGAC
+HWI-EAS443:3:67:1166:410#0/1
^ZX__R]a]¥aWaaaa``X`Z¥a[^¥¥_^^¥SOX[XRWM
@HWI-EAS443:3:67:1170:1882#0/1
GTCCCGTTTTTCGTTTCATTACCAACTACGTCCCCTTGCC
+HWI-EAS443:3:67:1170:1882#0/1
aY`aba[_a`_a`_`a`aaa`aa`_`aa`aZ]¥_^_`_`_`
@HWI-EAS443:3:67:118:89#0/1
GTCCCGTTTTTCGTTTCATTACCAACTACGTCCCCTTGCC
+HWI-EAS443:3:67:118:89#0/1
a_baab^aaa__aaaa_]`__S__[¥ZY]WZ]^WZU
@HWI-EAS443:3:67:1196:1685#0/1
CTCGAGATACTACTAAGACCACTGTGGACCATATGGC
+HWI-EAS443:3:67:1196:1685#0/1
aY]ZV`U`UU^a`¥SS^`aXa¥_Q]]XYa_aa`T[NN¥Y_
@HWI-EAS443:3:67:1301:918#0/1
ATGGTATTCTCACAAGAGGATTGCATGATCAAGGCAGTTA
+HWI-EAS443:3:67:1301:918#0/1
^aba[`b``¥aaaa`aHaa[a`a`_`aaY]_a__^WY]SOS
@HWI-EAS443:3:67:1304:1344#0/1
ATAAAAGAAGTCTAATGTCGCAGTCCCGCACTC
+HWI-EAS443:3:67:1304:1344#0/1
V]_ZS_`U^R_ba^¥WZYZ_^^_Q_]U`U^[T_]b]W_R

@HWI-EAS443:3:67:1331:21#0/1
GAACTGAGAGATCTAATGTCGCAGTCCCGCACTCGCGAGA
+HWI-EAS443:3:67:1331:21#0/1
a[^`bbaaaaa`aa_ab^[a^`_P[^`^^^¥__¥RP^¥[Y
@HWI-EAS443:3:67:1334:1976#0/1
AAGAAGTCTAATGTCGCAGTCCCGCACTCGCGA
+HWI-EAS443:3:67:1334:1976#0/1
]`_]aQaa¥Xa^[`a^aPDU][]WT^^¥[aNUGT`V¥H
@HWI-EAS443:3:67:1357:677#0/1
GGCCATTCTATTCCACCATGTTACGCCAGAGGTGATAC
+HWI-EAS443:3:67:1357:677#0/1
aa_aaaaaaaaa`¥^U`a_aa_aX__aUYSVTa^Z]U
@HWI-EAS443:3:67:1383:197#0/1
GGGAGCAATTTTACAATCCTGGAGCTCTTCTTCTCTCT
+HWI-EAS443:3:67:1383:197#0/1
¥Z¥aXY^aaaVaaaa`]U]YX]¥YZ`]QPU_X^U]NT
@HWI-EAS443:3:67:1397:1302#0/1
GAATAAAAGAAGTCTAATGTCGCAGTCCCGCAC
+HWI-EAS443:3:67:1397:1302#0/1
]ab`¥¥]_QR_bbV`[a]ba_baa`ba``]baa``_XY]Y
@HWI-EAS443:3:67:1481:1507#0/1
CTTCTTTGCCAAAATGAGAAATCCTCTCAGGACAGCAGA
+HWI-EAS443:3:67:1481:1507#0/1
`aabbba]abbb^^aabaaaaZ[] [aaaaUX`¥YVa``
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+HWI-EAS443:3:67:1485:1164#0/1
_SU¥bbbabba_bbaab`aL`b`a`ab__a]^aaa__Z
@HWI-EAS443:3:67:1485:952#0/1
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+HWI-EAS443:3:67:1485:952#0/1
aaaa`_a__aa_aU_^__aa`a]a_aaa`_Z`_V^_
@HWI-EAS443:3:67:1487:115#0/1
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+HWI-EAS443:3:67:1487:115#0/1
`aaa`_aaa__`a_aUa`__aX^`V_a]^V]_Z^XH]YX^
@HWI-EAS443:3:67:1487:723#0/1
AAAGAAGTCTAATGTCGCAGTCCCGCACTCGCG
+HWI-EAS443:3:67:1487:723#0/1
aaaa`a_aaa_aaa^_]a_aaX__`Y_X[X[Q]]]^_
@HWI-EAS443:3:67:1491:500#0/1
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+HWI-EAS443:3:67:1491:500#0/1
^^ab^^a`^aabaZ¥_a[a]`X`XaV^`_XYNWU]
@HWI-EAS443:3:67:1505:1073#0/1
GGGCCATATCTTGTCTTCTTTGCCAAAATGAGAAATC
+HWI-EAS443:3:67:1505:1073#0/1
VXbbZVbaa`b`baa`[bbbbbb_bb_b]_[bbbbbbbb_
@HWI-EAS443:3:67:1533:514#0/1
TCCCGTTTTCGTTTCATTACCAACTACGTCCCCTTGCC

+HWI-EAS443:3:67:1533:514#0/1
a``b`abbaa`aa`abaa^^`a_aa`a_a[_^][WW__`V
@HWI-EAS443:3:67:1575:1374#0/1
ATGGACATGATTCCAGAGAGGAATGAACAAGGACAAACCC
+HWI-EAS443:3:67:1575:1374#0/1
aa`Za_aba`aa`[`Z[_][a_aa`a`_____]__`]`]
@HWI-EAS443:3:67:1583:1598#0/1
AAAGAAGTCTAATGTCGCAGTCCCGCACTCGCG
+HWI-EAS443:3:67:1583:1598#0/1
a```[aaa__``a^aaa^`_aaa^`¥^_`_]U[X^^
@HWI-EAS443:3:67:1600:1193#0/1
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+HWI-EAS443:3:67:1600:1193#0/1
aaaabbXba]b_¥aa`abbaaaa`¥`a__WH]TFSYR
@HWI-EAS443:3:67:1619:1306#0/1
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+HWI-EAS443:3:67:1619:1306#0/1
a``aaba]a_aab`abZW`aa¥^aa`^`¥Z¥Y_a_a_
@HWI-EAS443:3:67:1631:1834#0/1
AAGTGGATGATGGCAATGAGATACCCAATTACAGCAGACA
+HWI-EAS443:3:67:1631:1834#0/1
aa]¥_a¥ab^aaa__a`[`aa^a^`_aaaa_¥^VZ_a_^
@HWI-EAS443:3:67:1638:1451#0/1
TGAATTCTTCATACCCTTCATGTACTCTTATTTTCAGTGT
+HWI-EAS443:3:67:1638:1451#0/1
abSUaaGaaR^a`SP]aaa^aa___`]`a]aaa``]a^a]
@HWI-EAS443:3:67:1671:96#0/1
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+HWI-EAS443:3:67:1671:96#0/1
a`aa`aabbabb_`aa`a`a`_`aa`[_^`_a`_a^¥`^
@HWI-EAS443:3:67:1683:264#0/1
GCTGTAATTGGGTATCTCATTGCCATCATCCACTTCATTC
+HWI-EAS443:3:67:1683:264#0/1
aa]aQWYT`a^a]__Z`US_]_ZWMVU][UWRTUYUU]WU
@HWI-EAS443:3:67:1690:712#0/1
TCGCGAGATACTACTAAGACCACTGTGGACCATATGGCC
+HWI-EAS443:3:67:1690:712#0/1
aTaa^R^Xa```aXJX_V`]_Z^^¥RDZ`_P¥¥^_S`¥GV
@HWI-EAS443:3:67:1723:607#0/1
CTTGGGACATTTGACACTGTCCAAATAATAAACTTCTCC
+HWI-EAS443:3:67:1723:607#0/1
abbbbbbbbabbb`babb``_aaabaabaaba_baa
@HWI-EAS443:3:67:1735:191#0/1
GCCATATCTCTTGTCTTCTTTGCCAAAATGAGAAATCCT
+HWI-EAS443:3:67:1735:191#0/1
``aababaa]`ab`^ab^aba``^_aaa¥aaaa_a``PT¥
@HWI-EAS443:3:67:178:802#0/1
AAAAGAAGTCTAATGTCGCAGTCCCGCACTCGC
+HWI-EAS443:3:67:178:802#0/1
a_`baaaaaaaaa`a_a`aaaa¥__aa_W`_`^`¥_Y_¥_

@HWI-EAS443:3:67:210:162#0/1
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+HWI-EAS443:3:67:210:162#0/1
a`Y_aa^aZab`aaaa`aaa`a`aa`aaa`][`^[`^_^
@HWI-EAS443:3:67:221:446#0/1
CTGTAATTGGGTATCTCATTGCCATCATCCACTTCATTCT
+HWI-EAS443:3:67:221:446#0/1
a^^IVW]¥YZ_Wa_`[^P^R][THW]OLYZP^]WYVRW_
@HWI-EAS443:3:67:22:1468#0/1
AGAGAATAAAAGAACTGAGAGATCTAATGTCGCAGTCCCG
+HWI-EAS443:3:67:22:1468#0/1
T_TV_VX_`¥YOW[^¥]Y¥]^W`_Z`ba^]^aaXKUY]F
@HWI-EAS443:3:67:243:1417#0/1
GAATAAAAGAACTGAGAGATCTAATGTCGCAGTCCCGCAC
+HWI-EAS443:3:67:243:1417#0/1
aaaaaaaa_aaa`a_a_`aa`_a_]aV`_X_`_]_Y]
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+HWI-EAS443:3:67:277:1908#0/1
X`Zbbb`^a`aaa`_`Z^ba¥_a`aa`ZY^`^_P^Y_
@HWI-EAS443:3:67:315:801#0/1
AAAGAACTGAGAGATCTAATGTCGCAGTCCCGCACTCGCG
+HWI-EAS443:3:67:315:801#0/1
`a]S_aa^^R0`a`_`W¥a_LX`]X^¥^`]^ZN]_`^¥^W
@HWI-EAS443:3:67:331:1139#0/1
GTACTTTTTGATTATGGCCATATGGTCCACAGTGGTCTTA
+HWI-EAS443:3:67:331:1139#0/1
a[abb`bababa__`]Y__XW_TWPY_[H¥XOO_XJY¥a[
@HWI-EAS443:3:67:361:1024#0/1
GTCCCGTTTTCGTTTCATTACCAACTACGTCCCTTGC
+HWI-EAS443:3:67:361:1024#0/1
a`bbbbaaaa`aaa`aaba_a`ba`a`_]aaa`_]`
@HWI-EAS443:3:67:362:423#0/1
GGTCTTAGTGAGTATCTCGCGAGTGC GGGACTGCGACATT
+HWI-EAS443:3:67:362:423#0/1
a_V_b`b^baa^a]^`^V[X[VY``_UZ]¥X^R[Z¥¥
@HWI-EAS443:3:67:368:796#0/1
TACTTTTTGATTATGGCCATATGGTCCACAGTGGTCTTAG
+HWI-EAS443:3:67:368:796#0/1
]_bbbb`aVV`a_a^aaa]__WUMM_aUYX¥ISZWa_a`a
@HWI-EAS443:3:67:432:373#0/1
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+HWI-EAS443:3:67:432:373#0/1
0]a`X`^a`[a`Y_aa`a`^a`^a`[baY`]X_b`^
@HWI-EAS443:3:67:448:1274#0/1
GAGAGATCTAATGTCGCAGTCCCGCACTCGCGAGATACTC
+HWI-EAS443:3:67:448:1274#0/1
aba`[^`abbbbab_babaa^aab_aR`_a[a]`_`^_a`_`
@HWI-EAS443:3:67:464:1865#0/1
GGGGACGTAGTGTGGTAATGAAACGAAAACGGGACTCTA

+HWI-EAS443:3:67:464:1865#0/1
aa]V_bbX^`_]_¥`WKYW¥X_a^VX][_`UV]W`ULY^^
@HWI-EAS443:3:67:470:702#0/1
GAGGATTTCTCATTTTGGGCAAAGAAGACAAGAGATATGG
+HWI-EAS443:3:67:470:702#0/1
aYa`a_a`aaa`a_a]]^`aa_aY`____[^``]a^^]
@HWI-EAS443:3:67:483:321#0/1
GCCGGCTACTGGGAGAAACCTTGTTTTACGGACCAATTCT
+HWI-EAS443:3:67:483:321#0/1
aaabaaa`X]^`a^`^^aHZ[`_¥_`a[^¥^[Y^[ZV_[¥
@HWI-EAS443:3:67:484:869#0/1
ATGCAAGGCAGCAATAGGGTTGAGGATTAGCTCATCTTTC
+HWI-EAS443:3:67:484:869#0/1
a`aa`_a`aaZ^]`a_aa_Xa]_a_]__a____a`__`¥
@HWI-EAS443:3:67:488:34#0/1
GTCCCGTTTTCGTTTTATTACCAACTACGTCCCTTGC
+HWI-EAS443:3:67:488:34#0/1
V`¥aa¥aba¥`^`X¥`_`¥X`^W[^_a_¥RXWZ[^¥[
@HWI-EAS443:3:67:49:36#0/1
CATTGTGGGATCTTGTGACCATTGAATTTTACAATTTCC
+HWI-EAS443:3:67:49:36#0/1
¥Q__bT¥WZ_aaaa`^`_Y]a__^VS^`a`a_a`a`^^U
@HWI-EAS443:3:67:508:1271#0/1
GGGAGATCAATGGCCCTGAGTCAGTGCTAGTCAACACTTA
+HWI-EAS443:3:67:508:1271#0/1
_[T``abaabb`a`Y`_aba`_`^`Ya_a_VZaaa_aa¥a_
@HWI-EAS443:3:67:530:352#0/1
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+HWI-EAS443:3:67:530:352#0/1
abaa_R_VXba`P]Z_]`_a_]Z][Xa_P]a__S_Z`MX]
@HWI-EAS443:3:67:679:266#0/1
CCCGTTTTCGTTTTATTACCAACTACGTCCCTTGGCC
+HWI-EAS443:3:67:679:266#0/1
b`XVvb`YXYb`abaaZV```aaa`[^`PKU¥W¥¥S`
@HWI-EAS443:3:67:711:1062#0/1
AAAGAAGTCTAATGTGCGAGTCCCGCACTCGCG
+HWI-EAS443:3:67:711:1062#0/1
aaa]aa`a_a_```a_aa`aUa_`a_W`Z[X`P]]]V]^
@HWI-EAS443:3:67:743:1631#0/1
CCCGTTTTCGTTTTATTACCAACTACGTCCCTTGGCC
+HWI-EAS443:3:67:743:1631#0/1
aaaa_`aab`^aaa`a`aaaa`aaaa`^]`^a^]X_[
@HWI-EAS443:3:67:74:1292#0/1
CCTGGAGTGACATCTGCTCCCAGCACGTCCCTTGGGTTA
+HWI-EAS443:3:67:74:1292#0/1
`]¥aXX_[_]aaa__^`_]__]NR_[WVX_]`^VRNGWX[
@HWI-EAS443:3:67:756:1212#0/1
GAGAGATCTAATGTGCGAGTCCCGCACTCGCGAGATACTC
+HWI-EAS443:3:67:756:1212#0/1
a`WOXW_ba¥a`UW]X_^RJV[`Y¥SYS_X]X_[_[Y^X[

@HWI-EAS443:3:67:808:773#0/1
GTCCCCGTTTTCGTTTCATTACCAACTACGTCCCCCTTGC
+HWI-EAS443:3:67:808:773#0/1
^I_T`aa`_`___aaa`a`Y_VKU]^[]ZY[W_^G]O]]_
@HWI-EAS443:3:67:826:633#0/1
GGTCCACAGTGGTCTTAGTGAGTATCTCGCGAGTGCGGGA
+HWI-EAS443:3:67:826:633#0/1
a_aV_a_aaSa^UXa_RaV_`a__[Y¥KZY^0^HYS¥aVY
@HWI-EAS443:3:67:841:1434#0/1
AAAGAAGTGGAGATCTAATGTCGCAGTCCCGCACTCGCG
+HWI-EAS443:3:67:841:1434#0/1
]abaabbaabaaaaabaaab`b_a_a¥aaa^a_a`a_a`
@HWI-EAS443:3:67:874:1150#0/1
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+HWI-EAS443:3:67:874:1150#0/1
a^abaaaa`aVaaaaa_a`]__aaa`¥aa^_a`_]_YN]T
@HWI-EAS443:3:67:900:572#0/1
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+HWI-EAS443:3:67:900:572#0/1
a`bb_aaaaa^`a_a`a_aa_]__a`_]_[_^^[O¥RW[]
@HWI-EAS443:3:67:904:617#0/1
GTCCACAGTGGTCTTAGTGAGTATCTCGCGAGTGCGGGAC
+HWI-EAS443:3:67:904:617#0/1
aab_bbbaa_bb_aabbb_bbbabaa__X¥aV_RYX¥b`KV
@HWI-EAS443:3:67:913:1076#0/1
GTCCCCGTTTTCGTTTCATTACCAACTACGTCCCCCTTGC
+HWI-EAS443:3:67:913:1076#0/1
H`^RSXR]YPYQP^LS]N_XW`Y^^`[V^UXZ^KHT
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+HWI-EAS443:3:67:916:985#0/1
]V]^X¥aaabaa]aa`a^a`]a¥^`]X]a_`Y`SX``¥
@HWI-EAS443:3:67:917:1346#0/1
CCGTTTTCGTTTCATTACCAACTACGTCCCCCTTGGCCA
+HWI-EAS443:3:67:917:1346#0/1
abaa`_`_`¥a`^`^`^`^`^`aa[a¥XZ_ZY]¥_T[VQYS`_
@HWI-EAS443:3:67:946:246#0/1
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+HWI-EAS443:3:67:946:246#0/1
aababbbabaaaaab^aaaa`aaaaba`^aa^`aaYa`Yaa
@HWI-EAS443:3:67:95:1784#0/1
GGGAGAGACGAGCAGTCAATTGCTGAGGCAATAATTGTGG
+HWI-EAS443:3:67:95:1784#0/1
]¥]a`YaXa^`Z[^¥Xab]RZ_a¥SRY`]a]a_[BBBBB
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+HWI-EAS443:3:67:963:1204#0/1
^W_[^`¥QZ`a`SS]a^U]UWY]UZ¥¥aa]YU[`_a`R^
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+HWI-EAS443:3:68:1046:1216#0/1
ab`bbbaaaYa]a`]\`aa_` `aSXaaZaa`aa[XVZ]HZ
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AGGCAGTGTATTATATTGAAGTGTGCACTTAACCCAAGGG
+HWI-EAS443:3:68:1052:1072#0/1
abbb^`ab_b¥¥^a^aabbbaa_aabbba]`^` `]
@HWI-EAS443:3:68:1067:1242#0/1
GCTAGAGTCCCGTTTTTCGTTTCATTACCAACTACTCGTCC
+HWI-EAS443:3:68:1067:1242#0/1
ab[b]G]Z]¥`aUN_¥^aX_a^aa]`__`_TZ[VUZRR__
@HWI-EAS443:3:68:1078:800#0/1
ATGATGGCAATGAGATACCCAATTACAGCAGACAAGAGAA
+HWI-EAS443:3:68:1078:800#0/1
`^]JYaa`S`ZZX¥`a[^^_]ba^V¥^^Ua`a_[D]aa^
@HWI-EAS443:3:68:1085:2042#0/1
CTTGAAATGTGCCACAGCACACAGATTGGAGGAGTAAGG
+HWI-EAS443:3:68:1085:2042#0/1
abaaa_ba`a^aaa`aaaaaa_aaa____a_`_¥`W` `]`Z
@HWI-EAS443:3:68:1128:154#0/1
GGTGGTTCACTTTCAAAGGACAAGCGGATCATCAGTCA
+HWI-EAS443:3:68:1128:154#0/1
aaMa]]G]`_T^YPN[^` `____^_S[X`SUVVOOXY`YW^
@HWI-EAS443:3:68:1159:217#0/1
GATCTAATGTGCGAGTCCCGCACTCGCGAGATACTCACTA
+HWI-EAS443:3:68:1159:217#0/1
a[abb` ` _a_]_aTQOT[a_aQ_Ra_YaQZNXSO^[WY¥^
@HWI-EAS443:3:68:1168:35#0/1
AAGTGAACCCACAAAACACTGAAAGATGAGCTAATCCTCAA
+HWI-EAS443:3:68:1168:35#0/1
aaT^baa`QZZU]a_`_Waa^__a^¥`aYV[^]aZUZ]]^
@HWI-EAS443:3:68:1205:312#0/1
CGCACTCAGAATGAAGTGGATGATGGCAATGAGATACCCA
+HWI-EAS443:3:68:1205:312#0/1
abbabbbabbbbaababbbabbaaaaaabababa_[ab
@HWI-EAS443:3:68:1238:251#0/1
CTAATGTGCGAGTCCCGCACTCGCGAGATACTCACTAAGA
+HWI-EAS443:3:68:1238:251#0/1
abbbbabbbab` `aabaaa^a`a_` `aaaa_a`a`a` `a`
@HWI-EAS443:3:68:1255:1511#0/1
CAGTATTCTTGCCCCACTTCATTTGGGAAAACAACTTCC
+HWI-EAS443:3:68:1255:1511#0/1
_ababbbba`_a_ba]`bbaaaa]b^a[Ya[^`bbaaa_aa
@HWI-EAS443:3:68:1266:1198#0/1
ATGGCCATATGGTCCACAGTGGTCTTAGTGAGTATCTCGC
+HWI-EAS443:3:68:1266:1198#0/1
¥__`aaaa^`^XVXa^^`]SVa¥^`aa¥U` ` `YYXWBBBB
@HWI-EAS443:3:68:1275:819#0/1
AAGTCAGTGAACGCAAGGAAGTGAAGTTGACAATAAC
+HWI-EAS443:3:68:1275:819#0/1
SU¥_a` `]aXY¥U_^^^aaRWZ^XO]]L[[W¥]a`¥[_^W

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+HWI-EAS443:3:68:1284:1840#0/1
_X`aaaV_aaaa[a__aa^a]`_a^a^_a_^]]^_Y¥YY[
@HWI-EAS443:3:68:1298:952#0/1
GCAGTGTATATTGAAGTGTGCACTTAACCCAAGGGAC
+HWI-EAS443:3:68:1298:952#0/1
aXQ]Na[VX¥_YGVQHMT]QR¥VFQXUX]BBBBBBBBBB
@HWI-EAS443:3:68:1309:495#0/1
AAAGAAGTGAAGATCTAATGTCGCAGTCCCGCACTCGCG
+HWI-EAS443:3:68:1309:495#0/1
aX`Y]aYbbaaaaaaaa`aa_^`[a_¥`Y`Y^Z]_____`
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GGAGGTTGCCCGTTAGCACTTCTTCTTCTTCTTCTTACTGA
+HWI-EAS443:3:68:1370:1903#0/1
`abbabbbbaa_aaaaaaaaaabbaba`bab_aaa_Y_a`
@HWI-EAS443:3:68:1397:663#0/1
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+HWI-EAS443:3:68:1397:663#0/1
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+HWI-EAS443:3:68:1455:916#0/1
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+HWI-EAS443:3:68:1462:923#0/1
aaaa]b`aba_aaa^aa¥`aaa]^`bb¥a^`abaa_]_¥`
@HWI-EAS443:3:68:1484:1317#0/1
CCTGATGTGACTTTTTGATTATGGCCATATGGTCCACAG
+HWI-EAS443:3:68:1484:1317#0/1
aab_abbabbbabbabbabbbaaab`a[a_]a`]a^
@HWI-EAS443:3:68:1498:304#0/1
TAATTGGGTATCTCATTGCCATCATCCACTTCATTCTGAG
+HWI-EAS443:3:68:1498:304#0/1
]`Z^aa`X0]aa^R`b[aWIS]W]]`_aY]aT^_____[[
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+HWI-EAS443:3:68:150:1222#0/1
WX^Z¥[[WH]Z^a_`¥`Xa_¥WSI]PXWWF¥¥^_Z`^R`
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+HWI-EAS443:3:68:1581:929#0/1
abaa```a_`aa_aW__`a_¥XM_```Z_Z]____^ZWZ^
@HWI-EAS443:3:68:1598:54#0/1
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+HWI-EAS443:3:68:1598:54#0/1
aa_Y^b^_aa_a_a`Z^aa_YV`^X`X__Y_YVYVY]]X
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+HWI-EAS443:3:68:162:546#0/1
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+HWI-EAS443:3:68:165:73#0/1
aaaabb_aaa`b`aa`[``_ZX`_]_[_] [^W^_Z^[^U
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+HWI-EAS443:3:68:1677:297#0/1
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a`Z`b_aabb`Z`_aaaaa^]aabbaaaaaT^`Y]aaa
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+HWI-EAS443:3:68:1773:324#0/1
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@HWI-EAS443:3:68:195:520#0/1
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+HWI-EAS443:3:68:195:520#0/1
a¥`a^aaa^`_a]aL`aa^aa`V^Y`^`_]VSX¥____]UX
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+HWI-EAS443:3:68:205:568#0/1
__ZZ]^)`aaaa]X^[]`Y`a`UZX[^a_] ^OPFV]NNU
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^¥K`a¥WaRL]X`S^WTRZZR_Z[a¥Q¥U^XQOVHO]T¥a
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a_aaaaa_^]aaa`aWa`_`_`_]__`^] ^_`^`_]_^^^
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+HWI-EAS443:3:68:241:43#0/1
aY`¥¥`^ [Y_¥_P]WY_R]^XS[[UZQTUQSQYUTRSVVY
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+HWI-EAS443:3:68:244:752#0/1
aW_aaaa`_ [___R^`a^`VY_^¥`_^Z^_a__^Z^T__Z
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+HWI-EAS443:3:68:266:1093#0/1
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+HWI-EAS443:3:68:286:310#0/1
ab_^bab¥Xabaa]`aaaa`^^¥aba``¥aaaaaaaa`^
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+HWI-EAS443:3:68:320:153#0/1
ab¥Xa¥[^a`aabZaaa¥`bb__a`^`^`^^^UTZ^^^Z
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+HWI-EAS443:3:68:333:881#0/1
U_¥ab^[ZSaba^¥bab^^`aS¥]bbb¥¥_b[ab¥P__a]
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+HWI-EAS443:3:68:43:1061#0/1
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@HWI-EAS443:3:68:44:510#0/1
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+HWI-EAS443:3:68:44:510#0/1
]OVV¥_¥UW___¥Z`Z]XORTQ[VYZX^NSX]ZZRX]TT[
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+HWI-EAS443:3:68:468:432#0/1
abWX_[aaaaaaaa``aaa_aa[a__adW[Y`¥`Z_ZVRR¥
@HWI-EAS443:3:68:471:1109#0/1
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+HWI-EAS443:3:68:471:1109#0/1
a]_babaabaaa`aaaaabaabaa]aaa`aa___]_^Y^
@HWI-EAS443:3:68:471:1576#0/1
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+HWI-EAS443:3:68:471:1576#0/1
aa¥]`ab`[_a_X`^^`_`a_Za``a``YbUUTNVUUS_^
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+HWI-EAS443:3:68:476:1425#0/1
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+HWI-EAS443:3:68:496:776#0/1
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+HWI-EAS443:3:68:518:1404#0/1
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@HWI-EAS443:3:68:52:767#0/1
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+HWI-EAS443:3:68:52:767#0/1
[baabaaaaaaaa`aa`^_a`_`¥a^W`_`_SZ_T¥¥¥
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[`bb^YWbbbb`b`a`bab_abbaaWa[``_]Zaa_`]`a
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+HWI-EAS443:3:68:565:1565#0/1
a_aa_a^a_a]`Qaaa_a_[¥¥^a_X¥^]_¥¥W^¥¥¥¥¥^
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+HWI-EAS443:3:68:578:1502#0/1
`]_bab`_`abaaa`aaa`aaa`_a_[a`^a`a^`^]_Z]
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+HWI-EAS443:3:68:612:1128#0/1
aa`aa^abaaaaaaaa_aaaaa_aaa]_aX`]aa[G[a_
@HWI-EAS443:3:68:615:1335#0/1
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+HWI-EAS443:3:68:615:1335#0/1
`Paab_¥a]a^ZY_aa]^T¥]`_`_a_¥_`]`^_^]XV_
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ab`_`baba_aa¥`aUa__abVY_`aZ`a[X]Z^_Q]^¥]
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+HWI-EAS443:3:68:617:1120#0/1
`X^¥^aaa^¥_aa__a`aa`U`_]`^Uaa_^_S_V`]`^
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a`aaaa`a^aa^S^_]_Y____`_U]¥a][¥^¥]¥¥^Y
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+HWI-EAS443:3:68:714:2024#0/1
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+HWI-EAS443:3:68:729:739#0/1
[`aa¥`¥abbbb__Z_Z_Zbbba`a]bX_a_`bbba`a
@HWI-EAS443:3:68:740:707#0/1
GGCTTGTTCCCTCAGTTGGATTCTGTCTAAGGATGTCCACC
+HWI-EAS443:3:68:740:707#0/1
¥K_a_a_`a[aa¥_Wa¥a[_aa_U[^¥`a`^`____`^^X`
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+HWI-EAS443:3:68:747:946#0/1
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+HWI-EAS443:3:68:752:1174#0/1
aaZaa¥_`a`aaaa`a`a`_`^YZ¥YY[¥____]YYY__
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+HWI-EAS443:3:68:805:1006#0/1
a`b_]_bb_Z_ba¥bb]b_bbbba`b`]a^aaaaRaa_]`
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+HWI-EAS443:3:68:830:49#0/1
]_Z_^ZUOV_`a`a_]XUY¥¥¥VMY^YRST[[]UR]VYV^Z
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+HWI-EAS443:3:68:857:391#0/1
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+HWI-EAS443:3:68:871:447#0/1
aaaa`aaabaab[_a_baaaaU^]aa[a`U^X__^T_¥`V
@HWI-EAS443:3:68:879:848#0/1
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+HWI-EAS443:3:68:879:848#0/1
aaab^aaZbaaa^_baaabaaaa`ba_aaaaa`aa__a`
@HWI-EAS443:3:68:892:1924#0/1
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+HWI-EAS443:3:68:892:1924#0/1
a`_a¥`[Ya__`SYWa]^`__ZXVY[L]¥¥WVYX`UV__^
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+HWI-EAS443:3:68:923:974#0/1
aaaaa`aaaaa]`aaaaaaaa_aaa`_W¥__^`_`^__a_
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+HWI-EAS443:3:68:924:1269#0/1
abaaa`a_aaa^aaaa_`aaaa_`^aa^_aaa`b^^^_`^
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+HWI-EAS443:3:68:928:847#0/1
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+HWI-EAS443:3:68:932:454#0/1
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+HWI-EAS443:3:68:983:706#0/1
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+HWI-EAS443:3:69:1012:1311#0/1
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@HWI-EAS443:3:69:102:78#0/1
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+HWI-EAS443:3:69:102:78#0/1
a_aa¥`[aa_]aW^`__^`^`_]W¥^¥¥¥WW¥W¥^WW]¥¥
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+HWI-EAS443:3:69:106:175#0/1
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+HWI-EAS443:3:69:1110:1832#0/1
Y`¥]¥R¥`¥[_R]S¥`b[UZ_b__^``ab¥`^aab]]R¥a
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+HWI-EAS443:3:69:1145:1299#0/1
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+HWI-EAS443:3:69:1194:1535#0/1
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+HWI-EAS443:3:69:1201:858#0/1
]b_¥`aaZ__]a`TVZ]¥U]_a`_^¥a`ZT^^a[X`__[^
@HWI-EAS443:3:69:1226:688#0/1
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+HWI-EAS443:3:69:1226:688#0/1
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@HWI-EAS443:3:69:1295:32#0/1
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+HWI-EAS443:3:69:1295:32#0/1
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@HWI-EAS443:3:69:1322:1210#0/1
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+HWI-EAS443:3:69:1322:1210#0/1
aabbbb_aaaIabaaX`TY`_[]¥¥aaa_a___aa]_^
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+HWI-EAS443:3:69:1329:402#0/1
Z^bbb`Z`b`bba[`aa`ab¥WY_aaa]```bbbabUb
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+HWI-EAS443:3:69:1332:847#0/1
aa_a`bbYY]^^^a_S]]X]XaZEXX[`_VZ_^ZX^^WU
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+HWI-EAS443:3:69:1336:404#0/1
a^_aaabbWS_[X¥LU][`[QV¥R[VWFsRYZ]ULR^^[U
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+HWI-EAS443:3:69:1355:828#0/1
a``baba_a]X^__a_aaa``a`aaa]a[aa_X``^a``_
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+HWI-EAS443:3:69:1373:1699#0/1
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+HWI-EAS443:3:69:1379:1342#0/1
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a^)^_a][`_a`^_¥`[Y¥ZZUVQT¥UYWU[ZSSR^¥^U
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+HWI-EAS443:3:69:1443:823#0/1
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@HWI-EAS443:3:69:1469:744#0/1
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+HWI-EAS443:3:69:1469:744#0/1
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+HWI-EAS443:3:69:1518:1287#0/1
`¥`_]ba_VbbbbXa`aaba````_a_Z^b_Zaaaa`__
@HWI-EAS443:3:69:153:811#0/1
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+HWI-EAS443:3:69:153:811#0/1
a_a[_[aba`aaab`_aaa`_aaPaaa__`_aaa^T^``_
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+HWI-EAS443:3:69:1575:241#0/1
`aa`_aa`a¥a__ZP^a[`a]W[_Z_`^[VUZ_`OZLUXZ
@HWI-EAS443:3:69:1612:132#0/1
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+HWI-EAS443:3:69:1612:132#0/1
]R]VXabaaaa`a[]_a^a_[^VX_]¥¥IR^_XUQQZW^
@HWI-EAS443:3:69:1622:1274#0/1
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+HWI-EAS443:3:69:1622:1274#0/1
`¥HZ[a¥¥^`_a`^aaaaUU__Q__W^^ZUUGV¥[ZV¥
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+HWI-EAS443:3:69:1637:1795#0/1
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+HWI-EAS443:3:69:1656:439#0/1
aaab`a]aba`_a_aaaaa_`¥`aa^[_`a^a¥^_¥L¥

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a`bbbabb^`bba_bbaaaaaaaaaaaba_a[b__aa^
@HWI-EAS443:3:69:1701:1946#0/1
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+HWI-EAS443:3:69:1701:1946#0/1
ISb]babbb_babZYaa`Z]¥` `bbaR`ab`bbb_]Zab
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+HWI-EAS443:3:69:1725:930#0/1
¥_b_R_babb`¥Z¥ba`aa`_`bbbZbbb`^]`ab]X_`
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+HWI-EAS443:3:69:1757:1431#0/1
aZ`XYGMR`_]_V]Y^__Q[Y]Q¥_W[[SUR[PVLVWSUYT
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+HWI-EAS443:3:69:1768:422#0/1
abbbab]aaa`a_aaab_aa¥` `ab_KXaY¥_a`V¥W_a¥
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+HWI-EAS443:3:69:1770:404#0/1
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+HWI-EAS443:3:69:179:1072#0/1
a¥^_a`¥R¥_Z]a][`¥^¥Ya][`a^a]¥_^[Q`YU^^[
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+HWI-EAS443:3:69:191:1478#0/1
aabS`Wa`R]a_ba¥¥a`Q]`aaa__YUZT¥¥T¥NT[Y^
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+HWI-EAS443:3:69:19:1448#0/1
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+HWI-EAS443:3:69:265:189#0/1
abaa`aaaaaa_aa¥] `¥__a__Z^^^¥^W[¥XV¥W¥W¥V
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Z_b¥Z^Z_bb`bbbbbb]_a`ba[aXW]^` `^_P¥_aaa
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aaa__U^[Y`aX¥YY]^`_]_Y`]W]^`____Q0^]_^_V¥R
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GGGCGATCTGAACCTTTGTCAATAGGGCAAACCAGCGACTG
+HWI-EAS443:3:69:291:552#0/1
aa^ba¥^a_aaaaa`aW_[SZZ]¥]^a¥]^```_`_Y__
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a^]aaaaba`aaaa`^aaa_a`a^_`V`_`^ZV^^`VNZ
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+HWI-EAS443:3:69:299:1609#0/1
aa`V`_`aab^aa^aaaa^a`_`a`_`_]W^^¥[ZW_[[^[WY
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+HWI-EAS443:3:69:308:568#0/1
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+HWI-EAS443:3:69:310:400#0/1
¥a¥`Z`aaWSX`a_bbV`_`UQ_aaU^W_^_S_a`¥Z`Y_^
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aaaa```]`a`a`aa`_`a_V__Y`_``]`]^`_`_Z[U_X`
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¥`¥````a¥¥J]UR[U``YXWY_a[a`¥RXJN]]^LQQ
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+HWI-EAS443:3:69:397:455#0/1
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+HWI-EAS443:3:69:404:338#0/1
¥¥I[¥[bbaabb`¥V¥R_[_])^a¥X`a`a^X¥0¥a``¥]
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+HWI-EAS443:3:69:427:761#0/1
`U^a_bYaba`_`P[^aaa[```¥Q¥aWL]ZVKWR^]R]UV

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+HWI-EAS443:3:69:434:836#0/1
aaYaabbaTaa_baabb]aa_baaaaa`aaY]`_]`_a`\
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+HWI-EAS443:3:69:43:1054#0/1
a^aaaa`T¥[`aaaY]W]_Waaa_aaV`_]Z][_]`^ZIZ
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+HWI-EAS443:3:69:444:1326#0/1
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+HWI-EAS443:3:69:44:807#0/1
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aa`a^`aaaabaa`aaaa`[```a_[```W`[_X^___¥
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aZ¥_Q_¥Wa]¥a¥_X]Z_aaa`_a^`_``aaa^Q`UFJR
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a`aa[`]aaba`_`aa^aaa_aa`_a`aaaa^`_a``V__
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+HWI-EAS443:3:69:54:1503#0/1
VRU_^Wa^Q^[`aXP``aPZPZa]TS¥bY¥aa^`^[aU]Z
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+HWI-EAS443:3:69:575:1528#0/1
^_^__a`a____]_[`aaaaaa^a¥aa`¥`_`Z_W__a^`
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+HWI-EAS443:3:69:575:584#0/1
`S_aRPRU]W^Z]a^YZU__[]]]¥Q_¥_U_a]````VY¥_
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+HWI-EAS443:3:69:606:1041#0/1
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+HWI-EAS443:3:69:607:101#0/1
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+HWI-EAS443:3:69:608:1955#0/1
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+HWI-EAS443:3:69:629:1051#0/1
a```]aTab_VZa`a_RX[]b¥^Za`S][¥a`_a^H[[a`
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abbaaabbbaa]aaaabab`_aaabaaaaa_a`a__`a_
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+HWI-EAS443:3:69:717:31#0/1
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+HWI-EAS443:3:69:727:1548#0/1
aaabaa`_`_a_a_aaaab_aaZ^_aa^¥_``ZaSa_aZa
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+HWI-EAS443:3:69:727:482#0/1
]]_`¥aa```a_`_V¥a`a__`¥`_^^]NWW[^[WVYQKY
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+HWI-EAS443:3:69:764:2011#0/1
a`¥WZ[^XQ^`^a][YYY^aaaa_aa`a^a[¥]T¥][]W¥
@HWI-EAS443:3:69:783:921#0/1
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+HWI-EAS443:3:69:783:921#0/1
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+HWI-EAS443:3:69:819:734#0/1
a``bb`]`a`aaaaaaaa`aa_a`^aa`aa_aa]_]_a

@HWI-EAS443:3:69:821:997#0/1
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+HWI-EAS443:3:69:821:997#0/1
a^0aaaaa`aaa`aaaa`a`_`aa_^]``Z^]_^`X^__
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+HWI-EAS443:3:69:824:951#0/1
a`[````_R_ZZ`_PV`_aaY]V]XXVF_YU¥YNYSQU¥[
@HWI-EAS443:3:69:84:1909#0/1
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+HWI-EAS443:3:69:84:1909#0/1
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@HWI-EAS443:3:69:906:112#0/1
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+HWI-EAS443:3:69:906:112#0/1
a`^aa_aab`a^a`^ab`a__a_^`_`^`^]XY¥]¥^^]
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+HWI-EAS443:3:6:1016:321#0/1
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+HWI-EAS443:3:6:1028:1140#0/1
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+HWI-EAS443:3:6:1082:787#0/1
`]_a]^_a^`^abWMQ^U^a^[SLK^V]`_XVHQ]]BBB
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+HWI-EAS443:3:6:1125:1565#0/1
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+HWI-EAS443:3:6:1131:202#0/1
a_X¥_Xa`^[X_`¥G¥^¥¥POYHS¥R¥¥P_YQPRV_SVBB
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+HWI-EAS443:3:6:1167:1748#0/1
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aZa_]a^^aa¥``_]_`a]^`^a`]^`_^_¥^__^a^ZZYZ
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+HWI-EAS443:3:6:1199:343#0/1
ab_ab¥a_a^`P_W`]R[___`^^^`_`U^R`_Y_W]B
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+HWI-EAS443:3:6:1206:1130#0/1
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+HWI-EAS443:3:6:1217:1498#0/1
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+HWI-EAS443:3:6:122:1939#0/1
ab`baaa`aa`^`___`a_aaa]`_a¥]aa`_a`^```]^
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VOQ^`Zbba`b`R`]aabbaba[baRVb]ab^_KN[Z[B
@HWI-EAS443:3:6:1261:482#0/1
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+HWI-EAS443:3:6:1261:482#0/1
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@HWI-EAS443:3:6:1292:1214#0/1
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+HWI-EAS443:3:6:1292:1214#0/1
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+HWI-EAS443:3:6:1320:231#0/1
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+HWI-EAS443:3:6:1357:27#0/1
aaX_]a]]V[YSQaWVBBBBBBBBBBBBBBBBBBBBBBB
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+HWI-EAS443:3:6:138:109#0/1
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@HWI-EAS443:3:6:1406:1452#0/1
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+HWI-EAS443:3:6:1406:1452#0/1
[`aX_a¥^abbb`_]ab`W`aHMU_b`IW_[MOZFNlbBB

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a`P__`¥bbaZ`aPabaa¥T¥a`ZJ`]^aYH[Q¥a][BBB
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+HWI-EAS443:3:6:1593:1353#0/1  
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TAAGTGCAACACTTCAATATAAACACTGCCTGTTCCGCCG  
+HWI-EAS443:3:70:1760:1903#0/1  
Z¥XWUZ`a```aaa[¥K^`V¥abba]TOXa]¥QZ]ZX]\_R  
@HWI-EAS443:3:70:1774:1388#0/1  
AAAAGAAGTCTAATGTCGCAGTCCCGCACTCGC  
+HWI-EAS443:3:70:1774:1388#0/1  
a]aaa^ba`\_aaab`a¥aaaaa\_a\_^Z]U]^a`\_`\_`^W[R  
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+HWI-EAS443:3:70:1780:894#0/1  
aabb\_abbba`aaaa`aa`a`a`\_]a`\_W`\_]¥W¥[¥Z^  
@HWI-EAS443:3:70:1783:1169#0/1  
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+HWI-EAS443:3:70:1783:1169#0/1  
¥F¥K[\`UX¥Z\_¥VPY[JZTLMZ^[M[ULZKX]RIWOY^\_R  
@HWI-EAS443:3:70:183:247#0/1  
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+HWI-EAS443:3:70:183:247#0/1  
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@HWI-EAS443:3:70:196:1998#0/1  
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+HWI-EAS443:3:70:196:1998#0/1  
]\_baRP]abbZY[\_XL`^aaYaY[a^F[YLP]`aa][\_^[  
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+HWI-EAS443:3:70:200:581#0/1  
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+HWI-EAS443:3:70:217:1846#0/1  
ab]a¥\_a¥¥\_`Y`U]\_\_a`\_\_Z[QaZ[W\_`\_U\_¥WW¥T¥  
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AATGTCGCAGTCCCGCACTCGCGAGATACTCACTAAGACC  
+HWI-EAS443:3:70:222:303#0/1  
]a]\_\_V\_a¥VYKY^S^]¥YNVTX¥^^[RZSTNR[ZZPPU  
@HWI-EAS443:3:70:236:1550#0/1  
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+HWI-EAS443:3:70:236:1550#0/1  
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+HWI-EAS443:3:70:256:1159#0/1  
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+HWI-EAS443:3:70:265:829#0/1  
abb`]U`aa`aaaa]¥^aa`aaa`a`a\_`¥U]a\_\_]aaZa  
@HWI-EAS443:3:70:306:945#0/1  
GGAGTCTGCTGTCCTGAGAGGATTTCTCATTTTGGGCAAA  
+HWI-EAS443:3:70:306:945#0/1  
````W\_`a```Y`a¥]XYa`Z[````a\_^[[^^JW\_`[VV  
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+HWI-EAS443:3:70:316:1910#0/1
a`bb`^[aaab`__ab^`a`b_V`b`_a^VL^aa_`_]a
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+HWI-EAS443:3:70:322:210#0/1
ababaa_a`aaaaaaaaaaaa_a_aa¥a]_^]`____]^Z]
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+HWI-EAS443:3:70:391:1614#0/1
abaaab`ab`b`a^^aU_a]`a`^[``b[b_a¥`^_`_`

+HWI-EAS443:3:70:600:338#0/1
__Q[¥]b`_U____VT0]baa_` `aYVX` `a]XR]Z]RZ[
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+HWI-EAS443:3:70:632:425#0/1
a__baUb`ab_bb_a_b^aa¥^bb_b_aaa_^aYX[[`¥`
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+HWI-EAS443:3:70:711:1724#0/1
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@HWI-EAS443:3:70:734:138#0/1
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+HWI-EAS443:3:70:734:138#0/1
aa_[__Q^_S_Y`a_PSY[_W[]Z_UU^Z¥^ZRNLQUPTS
@HWI-EAS443:3:70:73:548#0/1
CCCCTTTTCGTTTTATTACCAACTACGTCCCCCTTGCCC
+HWI-EAS443:3:70:73:548#0/1
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+HWI-EAS443:3:70:749:1191#0/1
abababb]`bbbaa` `aa^ab`]^`aa`_baa_V¥^a__V
@HWI-EAS443:3:70:76:474#0/1
GTCCCCTTTTCGTTTTATTACCAACTACGTCCCCCTTGC
+HWI-EAS443:3:70:76:474#0/1
Y^^¥` `]]` `b[Z`a`[aa`[``aa]ZXRDX`¥VRPU^
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+HWI-EAS443:3:70:78:583#0/1
`aaaaaaYUKaaaZ[¥_Y_a__`a_`^^ZP`_` `¥_^V
@HWI-EAS443:3:70:799:1224#0/1
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+HWI-EAS443:3:70:799:1224#0/1
abbK_ba`¥`bV_`]Y`bb`¥¥a_aaa`a`^aaW`ZZb`a
@HWI-EAS443:3:70:804:160#0/1
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+HWI-EAS443:3:70:804:160#0/1
YaX^a[FRNSbbba`ZSO_NT_bTPSNZQ[LY^F¥` `BBB
@HWI-EAS443:3:70:807:1571#0/1
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+HWI-EAS443:3:70:807:1571#0/1
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@HWI-EAS443:3:70:812:1530#0/1
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+HWI-EAS443:3:70:812:1530#0/1
_Y_aa_`aa^baaa`baZ_a_aaaa¥a_`a_aaa`¥`^_
@HWI-EAS443:3:70:813:883#0/1
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+HWI-EAS443:3:70:813:883#0/1
_b`baba^`]`_RY]]]_ab``¥`_`a_`^`aYO¥_a]aWR

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+HWI-EAS443:3:70:827:1476#0/1
¥_bb`a`¥0[Zab^]_]ZZ¥`[¥UZ_aaX¥`_^a^a]
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+HWI-EAS443:3:70:844:840#0/1
abbaaba`aa_aaabb¥aa]VQ_baaaaaaaa__`_a¥__
@HWI-EAS443:3:70:846:1099#0/1
GGAGAATTGCCTCTTACCAGTATCCTCAACCCTGATCCTC
+HWI-EAS443:3:70:846:1099#0/1
abaa``aaaabaaaba]b_a^aaaaaaaaaaaaaaaaa^a^
@HWI-EAS443:3:70:847:901#0/1
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+HWI-EAS443:3:70:847:901#0/1
abbaaab`baabaaaaa`aa```baW_aa¥a][¥[_a
@HWI-EAS443:3:70:865:781#0/1
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+HWI-EAS443:3:70:865:781#0/1
a[aaa_a_[TX`^X¥`^`_____`__]__^]_`_
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+HWI-EAS443:3:70:882:1101#0/1
aaa``abaaaZ`a`a`a`aaaa`^`^`a__]¥¥¥__a[_]
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+HWI-EAS443:3:70:899:1298#0/1
^[Y`_^X^aa^][R_[Z^RSW_XY`_aaY_KUQU_]Y[R
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+HWI-EAS443:3:70:916:1985#0/1
^^^[J`^`a_bU`S¥^``aa``Ua[`^XM_aaVa`aY`Q_
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+HWI-EAS443:3:70:917:470#0/1
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+HWI-EAS443:3:70:947:863#0/1
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+HWI-EAS443:3:70:952:1659#0/1
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+HWI-EAS443:3:70:992:660#0/1
a]`a¥_bbaab^baaaba`bb_aaaW`^_aa`a_`_a``
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+HWI-EAS443:3:70:993:636#0/1
abbaababababbaababb`abbaaaaaaaaaabababaa`
@HWI-EAS443:3:70:99:1323#0/1
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+HWI-EAS443:3:70:99:1323#0/1
`bb¥b`bbb¥¥bb__aaabbb`_b`abb]ab_aaaa`aa
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+HWI-EAS443:3:71:1088:213#0/1
]_^)]a[`_^a]Y[Q[_[a`¥N_^a¥^`b`Q]_]a
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+HWI-EAS443:3:71:1090:735#0/1
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+HWI-EAS443:3:71:1149:1033#0/1
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+HWI-EAS443:3:71:1254:703#0/1
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+HWI-EAS443:3:71:1271:1198#0/1
^W^ba`WF[P_]a``_VZ_abaZ^`_Saba`TWaaS[MPW
@HWI-EAS443:3:71:1301:684#0/1
GTCCCGTTTTTCGTTTCATTACCAACTACTCGTCCCTTGC
+HWI-EAS443:3:71:1301:684#0/1
aaaV^b[_]X]aZaS_aaaa`X^¥Xa`_a[¥^UZZRX]]
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+HWI-EAS443:3:71:1336:984#0/1
aba`bbbabbbabaa_^`b[aaaa_baaaaaaaa`_`N_X
@HWI-EAS443:3:71:1362:121#0/1
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+HWI-EAS443:3:71:1362:121#0/1
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+HWI-EAS443:3:71:1363:1222#0/1
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@HWI-EAS443:3:71:137:53#0/1
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+HWI-EAS443:3:71:137:53#0/1
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+HWI-EAS443:3:71:1448:2003#0/1
aY^`_]`aa[Vaa_bT]`a`aX_]a__]_]_Z]HTV¥]V
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+HWI-EAS443:3:71:1469:376#0/1
_b_bbb`bbaabbaaab`V]]`bZ``__`a_^_]Z_
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+HWI-EAS443:3:71:1480:1913#0/1
^a^[X_a_^_YRbb¥ba_b`bba¥R_a`_b_b`aX^`¥^a
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+HWI-EAS443:3:71:1508:1610#0/1
aaa^`aba_aaaaabbaa`Yaa_aaa¥`[Y`aaa`a`_^
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+HWI-EAS443:3:71:150:67#0/1
a_]Z^`aaa`a`X_aa`____``_]`X__]`^W^]]XX
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+HWI-EAS443:3:71:1574:1708#0/1
¥X``_aa_b]]a_]¥_V¥b¥Y¥baXY`[a__^]b[¥`YS
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+HWI-EAS443:3:71:1581:1217#0/1
_]_XOXabU`b[¥X`a^H`WHZ`a^N^U[a_Z^R]^GX YRX
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+HWI-EAS443:3:71:1601:1122#0/1
a]^S^_aa[a_G^¥Z]a^a`^_¥`_a]TV_¥_Y`[_V``¥
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GTCCCGTTTTCGTTTCATTACCAACTACGTCCCCTTGC
+HWI-EAS443:3:71:1615:1585#0/1
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@HWI-EAS443:3:71:323:522#0/1
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+HWI-EAS443:3:71:323:522#0/1
abbaaaaba`_aba`b_aa`a`]^a_^_a_`a`^Ya`__
@HWI-EAS443:3:71:338:852#0/1
TACTACTAAGACCACTGTGGACCATATGGCCATAATCAA
+HWI-EAS443:3:71:338:852#0/1
abaabbbab`babaaaa`a]abaa`Yaaaaa_`a____`
@HWI-EAS443:3:71:342:1351#0/1
AAAAGAAGTGGAGATCTAATGTCGCAGTCCCGCACTCGC
+HWI-EAS443:3:71:342:1351#0/1
V¥_XRU_a^U`N]^`^^]b__]aRaX^^^Haaaa]a]]YS
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+HWI-EAS443:3:71:38:568#0/1
abaa`]QGxaaaaS`a^`^]____[]WZ]S[[X[^`_ZZ^
@HWI-EAS443:3:71:399:1688#0/1
CTGCTGTAATTGGGTATCTCATTGCCATCATCCACTTCAT
+HWI-EAS443:3:71:399:1688#0/1
UaKb`ab_aVb`YYRaNb_b[`bb_¥S__W_b]`b[]]ba
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+HWI-EAS443:3:71:421:1493#0/1
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+HWI-EAS443:3:71:426:817#0/1
`XY_____`^]a`_^]_Z^¥_]¥T`_`_Y^0[Z]]YZTXU
@HWI-EAS443:3:71:440:767#0/1
CTCACTAAGACCACTGTGGACCATATGGCCATAATCAAAA
+HWI-EAS443:3:71:440:767#0/1
`Z¥^abbZbb¥^a`ba_ba¥bab_a`Yabaaaaba``a`]
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GTCCCGTTTTTCGTTTCATTACCAACTACGTCCCTTGC
+HWI-EAS443:3:71:452:279#0/1
aaa`abaaaaab`aaaababaaaa_a__a``^a_`]^_^^]
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AAGAAGTGTAAAGTCGTTTGGTTGCCTTGTGTAATTGAAT
+HWI-EAS443:3:71:552:768#0/1
a`bY¥G^]N^VaZ]YT_`^T_¥____[a¥a^Waaa^_[a¥
@HWI-EAS443:3:71:559:1031#0/1
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+HWI-EAS443:3:71:559:1031#0/1
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@HWI-EAS443:3:71:577:1099#0/1
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+HWI-EAS443:3:71:577:1099#0/1
W^VWT_``[aa_Z_[`ab_b`W^ES]XZS`aa¥aW¥UO_R
@HWI-EAS443:3:71:578:1412#0/1
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+HWI-EAS443:3:71:578:1412#0/1
a`^^X[a`ab`X`abaa`aaa`^^`aa`aa`]Z__aa_``
@HWI-EAS443:3:71:580:175#0/1
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+HWI-EAS443:3:71:580:175#0/1
a`IU`^NY¥_YX¥¥a_]Xa]W¥a¥XLW_]YT[_]`XYZ
@HWI-EAS443:3:71:589:816#0/1
GAGGAGTAAGGATGGTGGACATCCTTAGACAGAATCCAAC
+HWI-EAS443:3:71:589:816#0/1
_ZZ`a_TQ`^^`^_aW¥`W^W[^][VS]V_]WQXY[Y¥V
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+HWI-EAS443:3:71:594:93#0/1
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+HWI-EAS443:3:71:607:1773#0/1
¥a]abaUab``b]bba¥_]^^`YH_```aWI¥`T¥X`^
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+HWI-EAS443:3:71:642:602#0/1
aaaa`aa_a_baa`aa`¥`aUa_`aa]___S_Va_^^]_]
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GAACTGTACTTGTGTTGGGCCATTCTATTCCACCATGT
+HWI-EAS443:3:71:658:1257#0/1
YI__a_V]^aa¥a_U[T]U]_aba_aaaa]aaa^abaa`
@HWI-EAS443:3:71:658:1302#0/1
GTCCCGTTTTCGTTTTATTACCAACTACGTCCCCTTGC
+HWI-EAS443:3:71:658:1302#0/1
aabbbb`aabbb`babaaaba`bb_aaaba`_aaaa_]`^a
@HWI-EAS443:3:71:668:1741#0/1
AACAAACGATGCTGGATCAGACCGAGTGATGGTATCACCT
+HWI-EAS443:3:71:668:1741#0/1
__a`W`a]a^P^`a[_S¥b`]a_QSOZU¥VX`W`QUZYPP
@HWI-EAS443:3:71:709:86#0/1
GCCTTGCATATGTCTACGGCTTGTTCCTCAGTTGGATTCT
+HWI-EAS443:3:71:709:86#0/1
a^S]¥a]```V¥TXYW¥[WBBBBBBBBBBBBBBBBBBBB
@HWI-EAS443:3:71:71:185#0/1
CGCACTCGCGAGATACTACTAAGACCACTGTGGACCATA
+HWI-EAS443:3:71:71:185#0/1
a_aa_ab^aa[aYF_`_`]¥Y`^]UNXZW[W]]VSWXXY
@HWI-EAS443:3:71:740:205#0/1
CTCCAATCTGTGTGCTGTGGCACATTTCCAAGAGAGATGC
+HWI-EAS443:3:71:740:205#0/1
a]aY]^bba_RY]`aa`aabab[]]aa_Za`_`a`a___[
@HWI-EAS443:3:71:760:1889#0/1
AATGAAGTGGATGATGGCAATGAGATACCCAATTACAGCA
+HWI-EAS443:3:71:760:1889#0/1
[^ba__^RVZ`^aa[Z]_a`[XZT_[]]a_a^[^aaa[a_

@HWI-EAS443:3:71:770:785#0/1
GGGTTCACTTTCAAAGGACAAGCGGATCATCAGTCAAGA
+HWI-EAS443:3:71:770:785#0/1
a`aabbabbbaaab¥baaaba`abaaabab````a_^`a
@HWI-EAS443:3:71:771:270#0/1
TAAGGATGGTGGACATCCTTAGACAGAATCCAACGAGGA
+HWI-EAS443:3:71:771:270#0/1
abb`a`ba_aa^aa`aaa_^_a`_`a]`_a^a_`____
@HWI-EAS443:3:71:781:1654#0/1
AGGGGACGTAGTGTGGTAATGAAACGAAAACGGGACTCT
+HWI-EAS443:3:71:781:1654#0/1
^aZ¥¥Wa`ZVa]SD¥`U][TZW`a`]Zaa]`aaP^TYR
@HWI-EAS443:3:71:798:467#0/1
CTGCTCCACCAGAACAGAGTAGGATGCAATTTTCCTCATT
+HWI-EAS443:3:71:798:467#0/1
ababaab_abaaaaabbaa_bb`aaaaaaaa`^`aaaa
@HWI-EAS443:3:71:903:540#0/1
GAATAAAAGAAGACTGAGAGATCTAATGTCGCAGTCCCGCAC
+HWI-EAS443:3:71:903:540#0/1
a`baba]aaaXa_a^`aaa_aa__aa`^`_X^X¥]]^]
@HWI-EAS443:3:71:912:786#0/1
CACTCGCGAGATACTACTAAGACCACTGTGGACCATATG
+HWI-EAS443:3:71:912:786#0/1
`a^bb^ZZU`Wl¥SY_[¥_a]^]WT]Z^¥K^]_HZJ_¥_]
@HWI-EAS443:3:71:929:733#0/1
AATTGGGCAAGGGGACGTAGTGTGGTAATGAAACGAAAA
+HWI-EAS443:3:71:929:733#0/1
a`_`bbbaa`ab__abaab_a`aaaX[``]ba¥]Z`a
@HWI-EAS443:3:71:962:54#0/1
TGCCACAGCACACAGATTGGAGGAGTAAGGATGGTGGACA
+HWI-EAS443:3:71:962:54#0/1
Ya[W[_S_bb_UaJaS__a_U_aab`a[bb¥]bbP``GYX
@HWI-EAS443:3:71:972:2031#0/1
AAGAAGTGGAGATCTAATGTCGCAGTCCCGCACTCGCGA
+HWI-EAS443:3:71:972:2031#0/1
aaaaabaaaabab`baaaaa`baa`a]aaa`b__a`_
@HWI-EAS443:3:71:976:1497#0/1
CTAATGTCGCAGTCCCGCACTCGCGAGATACTACTAAGA
+HWI-EAS443:3:71:976:1497#0/1
`abb`b`ba`[aaabbaa_b`_`aa_aX`aaaab``aaV]
@HWI-EAS443:3:72:1068:322#0/1
GCCGGTACTGGGAGAAACCTTGTTTTACGGACCAATTCT
+HWI-EAS443:3:72:1068:322#0/1
abaaaa^_[a]abT¥G[a_____]¥`_a^W]_¥[U]UY_N^
@HWI-EAS443:3:72:1081:931#0/1
CTGTCCACTTCAGAAATCAAGTAAAATAAGGAGGAGAGT
+HWI-EAS443:3:72:1081:931#0/1
aaaaaaaaababbbb`aaa]b_aaa`aa`aaa`_a^a^
@HWI-EAS443:3:72:1117:695#0/1
CACATCTGGGGTGGAGTCTGCTGCTCCTGAGAGGATTTCTC

+HWI-EAS443:3:72:1117:695#0/1
`]abbaabbbb_ba_`_abaaaa_a¥X^`aaba^aaa`a^
@HWI-EAS443:3:72:1125:836#0/1
GGTCCGTAACAAGGTTTCTCCCAGTAGCCGGCGGAACA
+HWI-EAS443:3:72:1125:836#0/1
ab^a`baaaa`]baaa_a`aa`aaaa¥`aa[`_¥a_Z`^^
@HWI-EAS443:3:72:1149:1791#0/1
CTGTGGACCATATGGCCATAATCAAAAAGTACACATCAGG
+HWI-EAS443:3:72:1149:1791#0/1
I¥[a`bb`¥W]¥__¥^`_I¥V_b_W`bYXW```dW]_UY
@HWI-EAS443:3:72:1158:1947#0/1
TGGAAATGTGCCACAGCACACAGATTGGAGGAGTAAGGAT
+HWI-EAS443:3:72:1158:1947#0/1
[____[FMR¥[WZa`]aS^`]Z_UUH^`_dWDXJUF]^LL
@HWI-EAS443:3:72:1189:550#0/1
ACAATTTCCCAGTTCCTGATTATCCATTGATAAGTGTGTA
+HWI-EAS443:3:72:1189:550#0/1
[_¥`^^^aaYTVV^Z_`¥a`a`a^`[_ba^WM^[WXW
@HWI-EAS443:3:72:1233:281#0/1
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+HWI-EAS443:3:72:1233:281#0/1
aaZbaba_ab`QZbb`abbbbaaba`baUa`ba]a]RZYS
@HWI-EAS443:3:72:1246:1283#0/1
CCGCACTCAGAATGAAGTGGATGATGGCAATGAGATACCC
+HWI-EAS443:3:72:1246:1283#0/1
a``^ba]]_[Zaa`VbV_]¥¥a```a_^R^`_`¥¥_[VY
@HWI-EAS443:3:72:1246:313#0/1
CCTTCATCTGGATCTTCAGTCAATGCACCTGCATCCTTTC
+HWI-EAS443:3:72:1246:313#0/1
aabbbbababbb`bbbaba`bbbabaYbb_bba¥bba`
@HWI-EAS443:3:72:1251:1962#0/1
GGTGGAGTCTGCTGCTCCTGAGAGGATTTCTCATTTTGGGC
+HWI-EAS443:3:72:1251:1962#0/1
a_Pa`a[Xaaaa`[aWV__`a``]Z¥`[¥]^a`aa`_^_
@HWI-EAS443:3:72:1297:1113#0/1
CTGCTGCTCCTGAGAGGATTTCTCATTTTGGGCAAAGAAGA
+HWI-EAS443:3:72:1297:1113#0/1
^a_bbbbbbbb]bba__abb_baabbbbab`a`bbb^`a
@HWI-EAS443:3:72:1306:113#0/1
TCCCGTTTTCGTTTCATTACCAACTACGTCCCCTTGCC
+HWI-EAS443:3:72:1306:113#0/1
abaUaUbb[¥_¥]U[P]a_[SOT_]R¥^^^`^`R_W_a¥]
@HWI-EAS443:3:72:130:366#0/1
GAGAGATCTAATGTGCGAGTCCCGCACTCGCGAGATACTC
+HWI-EAS443:3:72:130:366#0/1
aaabaaabaaaaYaaaa^`aa[_X`^a[^¥V]XY[[[
@HWI-EAS443:3:72:1371:1476#0/1
GTCCCGTTTTCGTTTCATTACCAACTACGTCCCCTTGCC
+HWI-EAS443:3:72:1371:1476#0/1
``aa`a[`[baaaa]a_aaba`aa_baaa]U^_]R]W_^

@HWI-EAS443:3:72:1373:304#0/1
TCCAGATGAAGGCACATCTGGGGTGGAGTCTGCTGCCTG
+HWI-EAS443:3:72:1373:304#0/1
a`VS`Va`[^`PR^GXZ[^aaa_X^]PUS_^]UT[TPY[^
@HWI-EAS443:3:72:1381:517#0/1
CCGCTTGTCTTTTAAAAGTGAACCCACAAAAGTAAAG
+HWI-EAS443:3:72:1381:517#0/1
aabbbbbbbbabbbbabbaabbaaab_bbbbabbbbb
@HWI-EAS443:3:72:1386:1206#0/1
GTCCCCTTTTCGTTTCATTACCAACTACGTCCCCCTTGC
+HWI-EAS443:3:72:1386:1206#0/1
aa^Z[`H¥Ta^Y]__U_`_aY]¥_VS^¥`X^BBBBBBBBB
@HWI-EAS443:3:72:138:711#0/1
AAAGAAGTGAAGATCTAATGTGCGAGTCCCGCACTCGCG
+HWI-EAS443:3:72:138:711#0/1
a]aa]_`aaaZ]__`a_a_aZ`[____X^)`X^TZXX]X]
@HWI-EAS443:3:72:1410:431#0/1
GTCCCCTTTTCGTTTCATTACCAACTACGTCCCCCTTGC
+HWI-EAS443:3:72:1410:431#0/1
aXUQXbR`aa_b`^Z^`_¥^X_Z^Z`X[____]U^WSV_WRU
@HWI-EAS443:3:72:1421:1981#0/1
TTCTCATTTTTGGGCAAAGAAGACAAGAGATATGGCCAGC
+HWI-EAS443:3:72:1421:1981#0/1
a`Ua^`V_V]^QZI^H¥aa¥`^`^`][_XM[a_YTJQ[IW
@HWI-EAS443:3:72:1434:325#0/1
GCTAATGTGCTAATTGGGCAAGGGACGTAGTGTGGTAA
+HWI-EAS443:3:72:1434:325#0/1
a`aaaaaab`a_abab]b¥_`aa``Y^a_^b^aYaaaUZZ
@HWI-EAS443:3:72:1436:344#0/1
GCCATGGTATTCTCACAAGAGATTGCATGATCAAGGCAG
+HWI-EAS443:3:72:1436:344#0/1
a`[aa`aZabbXaaa_`^_]aa_a`]Y`a`]VV^)`Z]a
@HWI-EAS443:3:72:1442:1015#0/1
CCCCTTTTCGTTTCATTACCAACTACGTCCCCCTTGGCC
+HWI-EAS443:3:72:1442:1015#0/1
aa`b`a]aa]a``aaa¥^^aa`a__a_`^_^`¥[Q`_]]
@HWI-EAS443:3:72:1476:903#0/1
GTCCCCTTTTCGTTTCATTACCAACTACGTCCCCCTTGC
+HWI-EAS443:3:72:1476:903#0/1
a^_YaaHIza_] ^TT]UV]¥PX_]X]_NSUP]UUTVZQV
@HWI-EAS443:3:72:1492:898#0/1
GAATAATGGACATGATTCCAGAGAGGAATGAACAAGGACA
+HWI-EAS443:3:72:1492:898#0/1
`aabaaaaaba_`b_aba_aa_a_aa_aaaa_Z_`a^^Z`
@HWI-EAS443:3:72:1523:837#0/1
CGTACATGCTAGAAAGAGAATTGGTCCGTAACAAGGTT
+HWI-EAS443:3:72:1523:837#0/1
]`[`ba`aaaa`[`a`abaaa_¥_a_aa`b¥a^aaV`
@HWI-EAS443:3:72:1556:876#0/1
GGATGATGGCAATGAGATACCCAATTACAGCAGACAAGAG

+HWI-EAS443:3:72:1556:876#0/1
_XG_WY[_VSXW¥][[_¥TLT^¥W[Z^WX¥OYZXUST_X_
@HWI-EAS443:3:72:1568:708#0/1
GCGGGGTTCTTCTCTTGCCTTCCTGATGTGTACTTTTTGA
+HWI-EAS443:3:72:1568:708#0/1
a`XR`UK[QU¥_aV[a¥DNV^]_`a]U`T`RZZ^^[¥^Y]
@HWI-EAS443:3:72:1572:1984#0/1
GAGAATAAAAGAACTGAGAGATCTAATGTCGCAGTCCCGC
+HWI-EAS443:3:72:1572:1984#0/1
aL00]¥ZYa¥VQXRPNa__a_TL[ZX][VRXNXBBBBBBB
@HWI-EAS443:3:72:1588:989#0/1
ATGTGCGAGTCCCGCACTCGCGAGATACTCACTAAGACCA
+HWI-EAS443:3:72:1588:989#0/1
a_WKTY^a^¥a]YT]UZa]^Va`VFPQ[XOQUMR[VSSK^
@HWI-EAS443:3:72:1594:1225#0/1
GTTTTCGTTTCATTACCAACTACTCGTCCCCTTGCCCAAT
+HWI-EAS443:3:72:1594:1225#0/1
a]a`[J]^aa^`a`[U`_]^^W]_W_WUWUYSWTOSSY^
@HWI-EAS443:3:72:1611:1515#0/1
GCCTTCATCTGGATCTTCAGTCAATGCACCTGCATCCTTT
+HWI-EAS443:3:72:1611:1515#0/1
a`I_a`[]P`^L^Q][W_LXZXWR¥R^[VXVZ[_]TXXUY
@HWI-EAS443:3:72:1615:719#0/1
TGTGCTAATTGGGCAAGGGGACGTAGTGTGGTAATGAAA
+HWI-EAS443:3:72:1615:719#0/1
_`Za_babaabbb_a`aa`a`aa__aUa_abaU^a`_``a
@HWI-EAS443:3:72:1632:1993#0/1
ATCAAACCTTTGGTCAACATCATCATTCTCACTTCTCCTC
+HWI-EAS443:3:72:1632:1993#0/1
a]aaa[`aaa___baa`b`a`a_aa___a`a^___`¥_^a
@HWI-EAS443:3:72:1638:1975#0/1
GACAAAGTTCAGATCGCCCCTAACTGCCTTGATCATGCAA
+HWI-EAS443:3:72:1638:1975#0/1
¥abbbbaabababbbabb_abbababa`abbbb`baaaaa
@HWI-EAS443:3:72:1644:329#0/1
GTTGACTAGCACTGACTCAGGGCCATTGATCTCCACATC
+HWI-EAS443:3:72:1644:329#0/1
aaaaa`aaaa^aa`Zaa``^_`¥`__a`¥a]V¥^]`^Z
@HWI-EAS443:3:72:1664:1650#0/1
CAGTTCTTGAAAGGATGCAGGTGCATTGACTGAAGATCC
+HWI-EAS443:3:72:1664:1650#0/1
abaabbbabaaaabaabaa_a````a_aa_aa`a`a`a`_]
@HWI-EAS443:3:72:1683:547#0/1
GCAGACAAGAGAATAATGGACATGATTCCAGAGAGGAATG
+HWI-EAS443:3:72:1683:547#0/1
aa`a__aaaa`a`a`a^^`__`a¥UW^][`Xa`^`^_
@HWI-EAS443:3:72:16:865#0/1
CTCGGTCTGATCCAGCATCGTTTGTGTTTGTCTCCAGAGGGT
+HWI-EAS443:3:72:16:865#0/1
abbbaVaaba]baaX`aa]__`_a`a^_[`[_Y___Y^X

@HWI-EAS443:3:72:1715:133#0/1
GTCCCCGTTTTCGTTTCATTACCAACTACTCGTCCCCCTTGC
+HWI-EAS443:3:72:1715:133#0/1
`¥[YRYZaaaWa_a`Z^b__UP_`W^Z_`W[^WVW]WWU
@HWI-EAS443:3:72:1737:651#0/1
CTAATGTCGCAGTCCCGCACTCGCGAGATACTCACTAAGA
+HWI-EAS443:3:72:1737:651#0/1
TQ¥[a_W`_T[¥_]T]Z¥OWOTZU_Z¥]XWWZWLZ^XX[_
@HWI-EAS443:3:72:1742:1758#0/1
GCGAGATACTCACTAAGACCACTGTGGACCATATGGCCAT
+HWI-EAS443:3:72:1742:1758#0/1
_aa¥]`abbbababaaab`aaaaVaa```Y]`_aaaa`]
@HWI-EAS443:3:72:175:1426#0/1
GGTGGGTTCACTTTCAAAGGACAAGCGGATCATCAGTCA
+HWI-EAS443:3:72:175:1426#0/1
V[W0¥PZa`ab^abbbb^Y]a^Ya_YZ]`ba`^`Y[]
@HWI-EAS443:3:72:1761:579#0/1
GTCCCCGTTTTCGTTTCATTACCAACTACTCGTCCCCCTTGC
+HWI-EAS443:3:72:1761:579#0/1
`VX_Wa_``^_]V^YV¥aaa_¥]Y^X¥]U_¥¥R¥QUVOV
@HWI-EAS443:3:72:1786:1928#0/1
GAAAGGATGCAGGTGCATTGACTGAAGATCCAGATGAAGG
+HWI-EAS443:3:72:1786:1928#0/1
a[WT`````aa`ZPQSaaa^^^V`Z_aa^]¥X`¥^_`VVXQ
@HWI-EAS443:3:72:1788:1704#0/1
ATCCAGCATCGTTTGTGTTTGTCCAGAGGGTTTGTCCCTTG
+HWI-EAS443:3:72:1788:1704#0/1
ZH]]^]a]`Z¥U`ZX_T_YP`aR_]RV`MWaZ[Z¥_¥T
@HWI-EAS443:3:72:191:338#0/1
CCCCGTTTTCGTTTCATTACCAACTACTCGTCCCCCTTGCC
+HWI-EAS443:3:72:191:338#0/1
aaab`aaaab_a`aaa````_a_``````^`]^_^^¥^W^
@HWI-EAS443:3:72:218:1685#0/1
CGCTGGTTTGCCTATTGACAAAGTTCAGATCGCCCTAA
+HWI-EAS443:3:72:218:1685#0/1
[^^aa`_^[abaaaaa``¥a`PFU_aa^Y¥LZ`____Z¥
@HWI-EAS443:3:72:259:1375#0/1
AAAAGAAGTGCAGATCTAATGTCGCAGTCCCGCACTCGC
+HWI-EAS443:3:72:259:1375#0/1
a`aa`]aa__a]a_a]a`a`_Y`Z``^Y___Y^^_]^U]
@HWI-EAS443:3:72:265:58#0/1
CAATTACAGCAGACAAGAGAATAATGGACATGATTCCAGA
+HWI-EAS443:3:72:265:58#0/1
a_babba^bb_bab`abaaaaba^bbba`baaaaa^¥^a_
@HWI-EAS443:3:72:26:1101#0/1
AAAGAAGTGCAGATCTAATGTCGCAGTCCCGCACTCGCG
+HWI-EAS443:3:72:26:1101#0/1
V[abaaaaa`¥[a]Zb_Z^`a_a_`SW]`ab_aQ`Z`W__
@HWI-EAS443:3:72:330:127#0/1
AAAGAAGTGCAGATCTAATGTCGCAGTCCCGCACTCGCG

+HWI-EAS443:3:72:330:127#0/1
ababaaaaaaaa`aa__aa_aa_``_`_]^[^^^]]^X_
@HWI-EAS443:3:72:356:470#0/1
CATGGTGAATAGGAATGGCCCAACAACAAGTACAGTTCA
+HWI-EAS443:3:72:356:470#0/1
`bb[a]bbab^a]aaa`aa`aa^aa^aadWaw_aZ_^_
@HWI-EAS443:3:72:379:1930#0/1
CAGCACACAGATTGGAGGAGTAAGGATGGTGGACATCCTT
+HWI-EAS443:3:72:379:1930#0/1
ab`abbaabaaaa`a__a_Uaa__`_TZU^¥_¥_Z¥`^¥
@HWI-EAS443:3:72:379:945#0/1
TTCCCATCACATTGTCGATGGATTCAATCCCCAGTTCTG
+HWI-EAS443:3:72:379:945#0/1
`aaa^`_`aaaa`a_aaa_^ZTX_`¥¥Y__a`YLY]__^Z
@HWI-EAS443:3:72:405:906#0/1
CACGTCCCTTGGGTTAAGTGCAACACTTCAATATAAACAC
+HWI-EAS443:3:72:405:906#0/1
`b`bab`a____U_aaa`aa`````a¥^X_`a_a[^`_`
@HWI-EAS443:3:72:450:1895#0/1
GAGAATAAAGAAGACTGAGAGATCTAATGTCGCAGTCCCGC
+HWI-EAS443:3:72:450:1895#0/1
`babbaaabba][aa`U`b^`aa`aRbaa_Y[a_a^_
@HWI-EAS443:3:72:477:1392#0/1
GGTGCATTGACTGAAGATCCAGATGAAGGCACATCTGGGG
+HWI-EAS443:3:72:477:1392#0/1
a`Qaaaa`aaabab`^^baaa`_a`^baaU`a`^a__
@HWI-EAS443:3:72:495:149#0/1
AACAAGGACAAACCCTCTGGAGCAAAACAAACGATGCTGG
+HWI-EAS443:3:72:495:149#0/1
aa_``_aaabT__`a`____`Y_¥_W¥`^`¥_]a]¥^PUZW
@HWI-EAS443:3:72:497:565#0/1
TCCCGTTTTCGTTTCATTACCAACACTACGTCCCCTTGCC
+HWI-EAS443:3:72:497:565#0/1
a``Y`[aaW¥ZYXX^a¥N¥Z¥_`RaZWY]YW]RX[ZNR¥X
@HWI-EAS443:3:72:520:1403#0/1
TCGCGAGATACTACTAAGACCACTGTGGACCATATGGCC
+HWI-EAS443:3:72:520:1403#0/1
aabaabaa_a^a]aaaaaaababbTP]_aa^]_`^Z__a
@HWI-EAS443:3:72:546:936#0/1
AAAGAAGTGAAGATCTAATGTCGCAGTCCCGCACTCGCG
+HWI-EAS443:3:72:546:936#0/1
aaaaUa`_`_a`Z`aa^_a^a_a`aU^``Z_X`Y`U^^
@HWI-EAS443:3:72:550:1241#0/1
TGCCCCGACATGACCCCAAGCACGGAGATGTCGCTGAGAGG
+HWI-EAS443:3:72:550:1241#0/1
a_bbbab`aa[`aab]aaaaaa`X`a]aVa]a`aV`]aa
@HWI-EAS443:3:72:563:416#0/1
AGAGAATAAAGAAGACTGAGAGATCTAATGTCGCAGTCCCG
+HWI-EAS443:3:72:563:416#0/1
`aab_`^^a_`_abb_a_X^]^_b`b]aS]_b`a_S]_`

@HWI-EAS443:3:72:563:81#0/1
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+HWI-EAS443:3:72:563:81#0/1
a`T[___^`GZ`aa`a¥aaaa_`[]_]XaY^`W_`J`G^¥_
@HWI-EAS443:3:72:575:1140#0/1
CCCCTAACTGCCTTGATCATGCAATCCTCTTGTGAGAATA
+HWI-EAS443:3:72:575:1140#0/1
abaaa^_a``aaaaaaba`a`aa`a_`_a_]¥```aa_a
@HWI-EAS443:3:72:593:572#0/1
CCCCGTTTTCGTTTTATTACCAACTACGCCCCCTTGCCC
+HWI-EAS443:3:72:593:572#0/1
`¥ZPG¥__¥`LR]V]a_^S^__`_]`[Y¥¥[UVNM]]YOQ
@HWI-EAS443:3:72:597:429#0/1
GTCTGCTGCTCCTGAGAGGATTTCTCATTGTTGGCAAAGAA
+HWI-EAS443:3:72:597:429#0/1
^a`]abbbab`a`]aaaa_aaaa]aaaaaaaaa_`[_`a_
@HWI-EAS443:3:72:603:142#0/1
GGCATTTCAAAAAGATGCAAAAGTGCTTTCCAGAACTG
+HWI-EAS443:3:72:603:142#0/1
`Wa``Y^`^_WZ^aZZa[____]`Ra[T¥¥]X]]_^^Z]^
@HWI-EAS443:3:72:624:342#0/1
CTGTAATTGGGTATCTCATTGCCATCATCCACTTCATTCT
+HWI-EAS443:3:72:624:342#0/1
aaa`baba`aa_abaabb`aab]ababaaa^aaaaaaZ`a
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CAAGGACAAACCCTCTGGAGCAAAACAAACGATGCTGGAT
+HWI-EAS443:3:72:663:1003#0/1
]b]__WaZ^_b¥`_`aabbbb[a^^^a`^aa`X`a`_]_]`
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CTTCCTGATGTGTACTTTTTGATTATGGCCATATGGTCCA
+HWI-EAS443:3:72:690:1957#0/1
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@HWI-EAS443:3:72:690:331#0/1
CCGTAAAACAAGGTTTCTCCAGTAGCCGGCGGAACAGGC
+HWI-EAS443:3:72:690:331#0/1
abbabbbbab_b`W¥bbb`_`[`QM_aaX``T_bZa¥Z^_B
@HWI-EAS443:3:72:73:1192#0/1
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+HWI-EAS443:3:72:73:1192#0/1
ab`bbaZ¥¥K_a¥Zbabaabaaabba^abbaaVaa[a`_]`
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+HWI-EAS443:3:72:740:21#0/1
VYabbbbb`¥`bbb^_`a_]]]^`ba`[_`b_`b`YVSa`a
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+HWI-EAS443:3:72:744:1589#0/1
a`_`baaaabaabbaaaaaabaaaaa`aaaa`aa
@HWI-EAS443:3:72:767:420#0/1
GCGAGATACTCACTAAGACCACTGTGGACCATATGGCCAT

+HWI-EAS443:3:72:767:420#0/1
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GTACTTTTTGATTATGGCCATATGGTCCACAGTGGTCTTA
+HWI-EAS443:3:72:772:394#0/1
aXWSYb__VZ]¥``[YP_^WU¥JOQN_RQTV]TPXQTZ^R
@HWI-EAS443:3:72:774:1301#0/1
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+HWI-EAS443:3:72:774:1301#0/1
aaa[bbba`ba_bbbba`a[bbbaabaabaaaaaaaa
@HWI-EAS443:3:72:807:696#0/1
GTCCCCTTTTCGTTTCATTACCAACTACGTCCCCTTGC
+HWI-EAS443:3:72:807:696#0/1
a_aaab`abaaa_aaaaaaaa^aa`a``a``_a^`_^[V^
@HWI-EAS443:3:72:809:1502#0/1
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+HWI-EAS443:3:72:809:1502#0/1
]N_aab`Xaa`a]a`aa`_aaaa`Ua_]a`_VaU^`]]`X
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CCGTTTTCGTTTCATTACCAACTACGTCCCCTTGCCCA
+HWI-EAS443:3:72:820:157#0/1
RY_R_[G]a^__T_^[_PSZ]abb`Y_] ^YZ^NVZFFTW
@HWI-EAS443:3:72:823:1986#0/1
GACATGATTCCAGAGAGGAATGAACAAGGACAAACCCTCT
+HWI-EAS443:3:72:823:1986#0/1
aaaa[`X]aa_^`__`^ZU]a_]`][`_a__[[V[_]
@HWI-EAS443:3:72:836:361#0/1
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+HWI-EAS443:3:72:836:361#0/1
abba`abbbbab`abbbba_aaabaab_aaaba]_a`a
@HWI-EAS443:3:72:844:170#0/1
TGCCTCTTACCAGTATCCTCAACCCTGATCCTCTCACATT
+HWI-EAS443:3:72:844:170#0/1
ab`aa]a``abb`aaaa`aa`_`a``a``a``^^^`__^
@HWI-EAS443:3:72:859:85#0/1
CGCACTCAGAATGAAGTGGATGATGGCAATGAGATACCCA
+HWI-EAS443:3:72:859:85#0/1
aaab_babbaabb`ababbabba`ba_¥_bb_b^a`__^a
@HWI-EAS443:3:72:881:192#0/1
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+HWI-EAS443:3:72:881:192#0/1
^bab]ab¥_bb`baa^bb^__`a``a¥T[a`]NU^W`_[`
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+HWI-EAS443:3:72:883:1815#0/1
abbaabbabaaaaabbabaa[abaaaababaaaa`a`_
@HWI-EAS443:3:72:888:318#0/1
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+HWI-EAS443:3:72:888:318#0/1
a¥``a`ab_a_aaaaaWa_[`_a^`Z¥^V_¥_¥QW^Y_¥¥

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+HWI-EAS443:3:72:921:739#0/1
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@HWI-EAS443:3:72:928:581#0/1
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+HWI-EAS443:3:72:928:581#0/1
aabbaa`]bb`ab^^a^a]a`a`¥`a`Y`aaa`a_a^Y_
@HWI-EAS443:3:72:933:392#0/1
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+HWI-EAS443:3:72:933:392#0/1
aba`_¥a`a^aa___aaa_^__a_^a^^`_a__`_`__X
@HWI-EAS443:3:72:990:263#0/1
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+HWI-EAS443:3:72:990:263#0/1
abaXb¥^S[a^aaa`Z]`baaaaaa_a_[_aV][[YaV[
@HWI-EAS443:3:73:1010:1563#0/1
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+HWI-EAS443:3:73:1010:1563#0/1
`ba_ba`_aaa__baaTaY[aa]Saa^b`a^Y^aUWS
@HWI-EAS443:3:73:1019:420#0/1
ATGATGGCAATGAGATACCCAATTACAGCAGACAAGAGAA
+HWI-EAS443:3:73:1019:420#0/1
abbaabbaaab`b`aaaa]_aa^`a`aaa`aaa_^
@HWI-EAS443:3:73:1023:483#0/1
AATGAAGTGGATGATGGCAATGAGATACCCAATTACAGCA
+HWI-EAS443:3:73:1023:483#0/1
abaaa¥b`baaab^_aaa__ab`a`^aaa_aaaaaX`^`
@HWI-EAS443:3:73:1048:1675#0/1
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+HWI-EAS443:3:73:1048:1675#0/1
abaaaa]aba`aaa`bb`^`a_a_a__a^`a^^Qa__]
@HWI-EAS443:3:73:1075:139#0/1
AAAAGAACTGAGAGATCTAATGTCGCAGTCCCGCACTCGC
+HWI-EAS443:3:73:1075:139#0/1
`bW[a_ba]b^VZ[[[[aa_`X]¥U]a^`T¥TPS[YTXP
@HWI-EAS443:3:73:107:177#0/1
AGGGGACGTAGTGTGGTAATGAAACGAAAACGGGACTCT
+HWI-EAS443:3:73:107:177#0/1
_bba`^bbYSa[b_aaaI[¥ZXU¥`]^YY__PUYSFSSP[
@HWI-EAS443:3:73:1092:1804#0/1
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+HWI-EAS443:3:73:1092:1804#0/1
]_^aG_aa`[Y_aa`a]^aa_aa_a[^[]Z]_a_]__a_]`
@HWI-EAS443:3:73:1100:1097#0/1
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+HWI-EAS443:3:73:1100:1097#0/1
a_¥X`^^`aaaa_Xaa_¥W^Y^_adWQF^V_]aa]`a`__
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+HWI-EAS443:3:73:1102:1705#0/1
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@HWI-EAS443:3:73:1105:402#0/1
CTGTGGACCATATGGCCATAATCAAAAAGTACACATCAGG
+HWI-EAS443:3:73:1105:402#0/1
aa¥^bbbb`bbaabbba_]a`baaa_b]^]a`a`__a¥
@HWI-EAS443:3:73:110:1045#0/1
GCTGTGGCACATTTCCAAGAGAGATGCTAATGGGTCTGCT
+HWI-EAS443:3:73:110:1045#0/1
aa`ZN`]V]```a_SXZR]_`YU]^Z^WQPVVJMXPRN
@HWI-EAS443:3:73:1119:1264#0/1
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+HWI-EAS443:3:73:1119:1264#0/1
a``bbb¥ZT`bababa`]`a¥aaaaa^^`aa_`a_`]`_
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+HWI-EAS443:3:73:1124:1297#0/1
__a¥W_aaba[]ZZ¥b^a`ZSUR[V`N]```¥FZVYV[V
@HWI-EAS443:3:73:1144:1264#0/1
CACCATCAAGGGAGCAATTTTACAATCCTGGAGCTCTTCT
+HWI-EAS443:3:73:1144:1264#0/1
aba`^^`aa`b`_`b[Y__`bbaabbaa¥aaYb_`Za^Z^
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+HWI-EAS443:3:73:1161:957#0/1
``bbababaaaaaa`aa^^`aa`]aa```]`_XaZ]^W
@HWI-EAS443:3:73:1163:1291#0/1
GCCCTGTCCACTTCAGAAATCAAGTTAAAATAAGGAGGAG
+HWI-EAS443:3:73:1163:1291#0/1
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@HWI-EAS443:3:73:1210:100#0/1
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+HWI-EAS443:3:73:1210:100#0/1
ab_b¥U[``a`bbb^SaabbbbaY`bbaaaaaX_a¥`[^H
@HWI-EAS443:3:73:1230:1704#0/1
GAACCCCGCACTCAGAATGAAGTGGATGATGGCAATGAGA
+HWI-EAS443:3:73:1230:1704#0/1
abbaaabbbbaaaa`baaba`abUba`_a_``a_``^aaa`
@HWI-EAS443:3:73:123:682#0/1
TGCTGTAATTGGGTATCTCATTGCCATCATCCACTTCATT
+HWI-EAS443:3:73:123:682#0/1
`aba`¥J_a`a`[Xa_aa`]^__`]NY__^`^X[^]Y¥Y
@HWI-EAS443:3:73:1268:322#0/1
CGTTTGTTTTGGCTCCAGAGGGTTTGTCTTGTTCATTCTCCT
+HWI-EAS443:3:73:1268:322#0/1
`babaabbbbaaaa`ababaaabbaa^¥aaa`a¥aaa]Y_
@HWI-EAS443:3:73:1302:1491#0/1
AGAGAATAATGGACATGATTCCAGAGAGGAATGAACAAGG
+HWI-EAS443:3:73:1302:1491#0/1
`^^^abbaa`]aaaa[`a]]`a_aa^`aaa`Wa`]X

@HWI-EAS443:3:73:1337:399#0/1
TGGCAATGAGATACCCAATTACAGCAGACAAGAGAATAAT
+HWI-EAS443:3:73:1337:399#0/1
ab]S]Y]]__a_WZOMR^_[ZTOS¥_aYVXWX__^Q[[_
@HWI-EAS443:3:73:1340:640#0/1
GAAGTTTTATTATTTGGACAGTGTCAAATGTCCCAAGCAC
+HWI-EAS443:3:73:1340:640#0/1
a]_a]a`aaa_`^¥`_`Z__¥a]_`^_aZ]^W_]_W¥]
@HWI-EAS443:3:73:1347:1246#0/1
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+HWI-EAS443:3:73:1347:1246#0/1
a_ba`ababa`a_a``_aaa`_aaaYaaaa]a^_a____]_
@HWI-EAS443:3:73:1352:817#0/1
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+HWI-EAS443:3:73:1352:817#0/1
aaaYba_bbbbababbba`aab`bab`¥^aaa____^baaZ
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TACTCACTAAGACCACTGTGGACCATATGGCCATAATCAA
+HWI-EAS443:3:73:1356:1513#0/1
a____aaaa_a¥^a]a]a_X_W____^`^_U^¥^][_`^U^S
@HWI-EAS443:3:73:1381:1530#0/1
CGGCTTCTGGTTGCCTTAGGGACAAGAGACTGAAATGGTT
+HWI-EAS443:3:73:1381:1530#0/1
`baabbabbaab_aaab[aa`a¥aab_aa`ab`_`_a_[W^
@HWI-EAS443:3:73:1388:1068#0/1
GGATGATGGCAATGAGATACCCAATTACAGCAGACAAGAG
+HWI-EAS443:3:73:1388:1068#0/1
a`_aaa_a`_[_aa`````_`^_a`````_][_]____
@HWI-EAS443:3:73:1396:1149#0/1
GTGTACTTTTTGATTATGGCCATATGGTCCACAGTGGTCT
+HWI-EAS443:3:73:1396:1149#0/1
a`^UZ[^`ba__`aa`aa][]_`^Z_UZ^R[¥H]]Q]_OY]
@HWI-EAS443:3:73:1405:658#0/1
ATCATCATTTCTCACTTCTCCTCCTGGAGTGTACATCTGC
+HWI-EAS443:3:73:1405:658#0/1
ababbaabbbbaa_a`bbaaaUba[aaa^`_a¥a]aa^```
@HWI-EAS443:3:73:1411:1583#0/1
CTGCTGTCTGAGAGGATTTCTCATTGTTGGGCAAAGAAGA
+HWI-EAS443:3:73:1411:1583#0/1
``_a````Yaa_a¥b`[]a`_aaaaaa`b`]____a__`^
@HWI-EAS443:3:73:1476:1251#0/1
AAAAGAAGACTGAGAGATCTAATGTCGCAGTCCCGCACTCGC
+HWI-EAS443:3:73:1476:1251#0/1
_abab)`abba_aaaaaa`_ab^`a_aa__a_[_XY^`__
@HWI-EAS443:3:73:1482:110#0/1
GGAGTGTACATCTGCTCCCAGCACGTCCCTTGGGTTAAGT
+HWI-EAS443:3:73:1482:110#0/1
abaaabWbaaaZ^a`_]_X`_]_¥Z¥VZW`Z[a_W_^]^Z
@HWI-EAS443:3:73:1500:1431#0/1
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+HWI-EAS443:3:73:1500:1431#0/1
`_T`K`]`a__WW^b^b_R¥]T]`^SZNVYNNXMM`^QPK
@HWI-EAS443:3:73:1503:83#0/1
ATTCAATTCCCCAGTTCTGGAAAAGCACTTTTGCATCTTT
+HWI-EAS443:3:73:1503:83#0/1
aaaR`a````SUQaaa`a_a_aa^bV_Z_``_aIUYI]Z_
@HWI-EAS443:3:73:152:1725#0/1
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+HWI-EAS443:3:73:152:1725#0/1
_Z`Y_aba`aYb``abaa_aaZb¥aa^U__a0aU`__W^
@HWI-EAS443:3:73:1531:1201#0/1
GCTCCCTTGATGGTGGCGTACATGCTAGAAAGAGAATTGG
+HWI-EAS443:3:73:1531:1201#0/1
`¥]__a_`]a`]V__^aZ_Z¥` `[V]_aa¥`a_[^]_U
@HWI-EAS443:3:73:1589:1598#0/1
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+HWI-EAS443:3:73:1589:1598#0/1
aa]aaaabaa^`]_aaaa_^_Z^a_aa¥X]^^`X[Y¥__`
@HWI-EAS443:3:73:1614:1012#0/1
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+HWI-EAS443:3:73:1614:1012#0/1
aab`ab`ba`a^aaa[`a_¥X¥a^S_a[a`¥^_^_^^_]X
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AAAAGAAGCTGAGAGATCTAATGTCGCAGTCCCGCACTCGC
+HWI-EAS443:3:73:1626:1206#0/1
VZ_a`]bbbb`aa_aaab`aabaaaaa]Y¥`Y[_ZY_YV^
@HWI-EAS443:3:73:1634:1830#0/1
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+HWI-EAS443:3:73:1634:1830#0/1
a``abaSaZaaSaabaa]^`U]U__]XZZaYXZ[LX]TUZ
@HWI-EAS443:3:73:1651:1747#0/1
GTTAGCACTTCTTCTTCTTTCTTGACTGATGATCCGCTTG
+HWI-EAS443:3:73:1651:1747#0/1
a`a`a_`aaa_aa_a``a_a_``_^]_```__^]_^]_Z`
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CACTCGCGAGATACTCACTAAGACCACTGTGGACCATATG
+HWI-EAS443:3:73:1654:297#0/1
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@HWI-EAS443:3:73:1657:1229#0/1
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+HWI-EAS443:3:73:1657:1229#0/1
Ua^YSR_U^W_`S])bab[^_b_Z_R_a¥ZPZ`¥`Z¥¥ZQ
@HWI-EAS443:3:73:1692:1290#0/1
GGTTGCCCGTTAGCACTTCTTCTTCTTTCTTGACTGATGA
+HWI-EAS443:3:73:1692:1290#0/1
`U]TabaUaaYa^WY[a`WVa`bZaa¥`^a`aa^`]a]aa
@HWI-EAS443:3:73:1758:672#0/1
AGCAGATGTACTCCAGGAGGAGAAGTGAGAAATGATGA
+HWI-EAS443:3:73:1758:672#0/1
_]`babbab_aa`¥]`a]R^b`aU_`Y```a_a`aa`a_

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+HWI-EAS443:3:73:1777:1830#0/1
^[aY`a`^`bYR]X]^I_Z[WTXW_ZRR]`ZX^U]Y
@HWI-EAS443:3:73:182:1627#0/1
AAAGAACTGAGAGATCTAATGTGCGCAGTCCCGCACTCGCG
+HWI-EAS443:3:73:182:1627#0/1
`aaQX`a``PR^`_a^_a_[QaG__]N]^UR^J^]]TVR
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GGGTTCACTTTCAAAGGACAAGCGGATCATCAGTCAAGA
+HWI-EAS443:3:73:205:100#0/1
aab]baaaabbbbaaaaba`aabaaa[```a`aa^``_aa
@HWI-EAS443:3:73:218:442#0/1
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+HWI-EAS443:3:73:218:442#0/1
aabbbbXa\$__ab`a`bVS[___Sa[_```a_^a_ZaaS_`
@HWI-EAS443:3:73:247:879#0/1
GGGGACGTAGTGTGGTAATGAAACGAAACGGGACTCTA
+HWI-EAS443:3:73:247:879#0/1
aaba`bb_ab`aabaa\$aaaa`b]a`aa`Za_`[U`\$`_^
@HWI-EAS443:3:73:250:1753#0/1
CAACCCTGATCCTCTCACATTCACAGTCAATGAGGAAAAT
+HWI-EAS443:3:73:250:1753#0/1
W`]a_PU_aa]WX`[]`[[```_[RX`_`PZRTZ]X`]U
@HWI-EAS443:3:73:262:175#0/1
GAGCAATTTTACAATCCTGGAGCTCTTCTTTCTTCTTT
+HWI-EAS443:3:73:262:175#0/1
abaaaaaaabaa`aaaa^`_[a^`^`__`^_]```]-[__^
@HWI-EAS443:3:73:307:948#0/1
CACTCGGTCTGATCCAGCATCGTTTGTGGTCCAGAGG
+HWI-EAS443:3:73:307:948#0/1
aVa`a__U`\$^X^\$`]^a\$]_`P`^`_S[___VLX\$ZQXYRY
@HWI-EAS443:3:73:325:1278#0/1
CTGCTGTAATTGGGTATCTCATTGCCATCATCCACTTCAT
+HWI-EAS443:3:73:325:1278#0/1
aa\$bb`aZ_R`a__]W`aaaa_`Y`a__`a__`T`[^`__[
@HWI-EAS443:3:73:340:1822#0/1
CCCGTTTTTCGTTTCATTACCAACTACGTCCCCTTGCCC
+HWI-EAS443:3:73:340:1822#0/1
aaa_T_`^a_Y^\$W]^`^``_]U]^`_Y`\$]XY]^]WYY^]Z
@HWI-EAS443:3:73:343:1182#0/1
GTACTTTTTGATTATGGCCATATGGTCCACAGTGGTCTTA
+HWI-EAS443:3:73:343:1182#0/1
`aabbaaabbbbaa`_ab_JS^__OT[a]aRXTX_U____
@HWI-EAS443:3:73:369:168#0/1
GTCTTAGTGAGTATCTCGCGAGTGGGGACTGCGACATTA
+HWI-EAS443:3:73:369:168#0/1
aaabbab_aaaaaa\$XZ[_`W`]\$^`_S\$^YZ]ZZ[^Z]
@HWI-EAS443:3:73:410:980#0/1
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+HWI-EAS443:3:73:410:980#0/1
abUb_b`b`ML¥NY_`a_YUaX[Xa_]`VXGV`_^^_]
@HWI-EAS443:3:73:412:2035#0/1
AAGAAGTCTGAGATCTAATGTCGCAGTCCCGCACTCGCGA
+HWI-EAS443:3:73:412:2035#0/1
ab`a_aaa`[bab_`aY]`Ya]aa¥N`W_S¥[_W_¥_ZW
@HWI-EAS443:3:73:418:489#0/1
GGTGGGTTCACTTTCAAAGGACAAGCGGATCATCAGTCA
+HWI-EAS443:3:73:418:489#0/1
aa]aaa^`a`a`a`aa`_`^_a____`^W¥^`^^_X]_
@HWI-EAS443:3:73:447:1220#0/1
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+HWI-EAS443:3:73:447:1220#0/1
Y`Zaa^abab`_`_bba`bab]bbbbaaa_aaaabaaba
@HWI-EAS443:3:73:454:221#0/1
CTTTGATCTCTAACCTTAAAAATCGGTCAATACTCACTA
+HWI-EAS443:3:73:454:221#0/1
_abb`b`a¥`Y¥V¥abb`a^a``aaMZ^`_aba]_`]ab
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+HWI-EAS443:3:73:459:335#0/1
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+HWI-EAS443:3:73:466:536#0/1
aUHGLTOZZa_`PXY¥YUUN[YV[PY_Y]TW_PHSDRSY
@HWI-EAS443:3:73:470:811#0/1
AAAGAAGTCTGAGATCTAATGTCGCAGTCCCGCACTCGCG
+HWI-EAS443:3:73:470:811#0/1
^a_ZYZ[a^a^a`ba`ab_^Z¥a_aaV_a`¥T]V^WaT_]_
@HWI-EAS443:3:73:474:50#0/1
AAAAGAAGTCTGAGATCTAATGTCGCAGTCCCGCACTCGC
+HWI-EAS443:3:73:474:50#0/1
`abbaa`aaaaa__a_aa_`a`_`¥^aW]^____^UVZ^]
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CCGTTTTCGTTTCATTACCAACTACGTCCCCTTGCCCA
+HWI-EAS443:3:73:488:1765#0/1
]_PWa_baa[_¥ZY[`]b`G]b[a]]R`a``¥_a^P^¥
@HWI-EAS443:3:73:511:175#0/1
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+HWI-EAS443:3:73:511:175#0/1
`a]¥¥b`b`a[^]^¥a_]`¥¥`X_]aW]RER]`HY^RSX
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CTCGCGAGATACTCACTAAGACCACTGTGGACCATATGGC
+HWI-EAS443:3:73:583:1789#0/1
a_b_b`¥^^`^aaa^YaM]`aaa`VWTW^`_`^_^^^
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GATCCGCTTGTCTTTTGAAGTGAACCCACCAAACTGA
+HWI-EAS443:3:73:586:1602#0/1
ZYab`ba]¥¥¥Y`_¥]baa`V^Z]V`a_^_aa`aaba`b

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+HWI-EAS443:3:73:600:1274#0/1
a_abbb_aaaa`a`_aaaaaaaa`aaa]aa`____a
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+HWI-EAS443:3:73:600:1346#0/1
`]b`a^abaa_¥¥Wbbaaa^[^Z`a¥W__¥_W`_¥¥aa¥^
@HWI-EAS443:3:73:622:641#0/1
GCTAATGTGCTAATTGGGCAAGGGGACGTAGTGTGGTAA
+HWI-EAS443:3:73:622:641#0/1
a`a`^`aY`^a`aaa_```[^`^YXRaa¥X^Sa_aaaG]X
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+HWI-EAS443:3:73:674:1390#0/1
a]a`ZWVQYaL`a_aa_`¥]_a^`¥_adWam¥¥__^^_W_
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+HWI-EAS443:3:73:689:302#0/1
a_¥T`_`_W_]_Y`_`a___^G[]`[____]____]X_U
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_¥¥]_aaa`Z`^`__aaa]aaW__^[`X^]^W[LQ]_W]
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+HWI-EAS443:3:73:783:1991#0/1
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+HWI-EAS443:3:73:795:1023#0/1
abba`bbbb`abbbbbbb`bbabbabba_aabb`_`aaa
@HWI-EAS443:3:73:884:1331#0/1
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+HWI-EAS443:3:73:884:1331#0/1
_]`[`]bba^^a^aY^¥W[JL`]Z]Y[T^_aR_^a_XY]^Z
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+HWI-EAS443:3:73:928:1699#0/1
`aa`aaa`__^____Z__¥aT^_UL^¥W]¥ZZYW^¥¥¥WT
@HWI-EAS443:3:73:92:1998#0/1
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+HWI-EAS443:3:73:92:1998#0/1
`^_aa¥Q_`RT_aY`^Raaa`]``_G_]aaZVYa]W¥`_
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+HWI-EAS443:3:73:935:795#0/1
a_aaa¥¥¥a`_`a`````WaaZ_^`_^_`^¥^^SVW^[]
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CTCAGAATGAAGTGGATGATGGCAATGAGATACCCAATTA
+HWI-EAS443:3:73:951:636#0/1
aa`[^¥`a``aZY^a`bYVX`a¥_aaXaa`a]¥`a]`_
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+HWI-EAS443:3:74:1051:1733#0/1
ab_aa^baaaabbaabb]ba_a[]a_a__aa__¥^U¥__
@HWI-EAS443:3:74:1062:767#0/1
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+HWI-EAS443:3:74:1062:767#0/1
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@HWI-EAS443:3:74:1071:318#0/1
GTCCCCTTTTTCGTTTTATTACCAACTACGTCCCCTTG
+HWI-EAS443:3:74:1071:318#0/1
``aabaabb_a`aa[aaba`^a`[aaaaaa^_`^a^[]R
@HWI-EAS443:3:74:1096:988#0/1
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+HWI-EAS443:3:74:1096:988#0/1
abaabbaaaba`bb_aaaba_aaa`a]`aa]a`]aaZ``
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+HWI-EAS443:3:74:110:318#0/1
^WX`_OV_SSaZUaRRSVUWZ^RZ`]_[^GQUP]SHXW¥^
@HWI-EAS443:3:74:1130:1707#0/1
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+HWI-EAS443:3:74:1130:1707#0/1
aaaaaabaaaa`a_aabaaaa¥aZaadWaa^]`UYXZ^]
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+HWI-EAS443:3:74:1154:1364#0/1
aaaXRXR[[]H^`RQaaXP_[TPYVU^^GGVL^`_`VX_]U
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+HWI-EAS443:3:74:1157:192#0/1
aba[¥W`Z¥¥__¥Z`[[[]¥aaaaa`__`_`aaW¥Z]]^[R

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_^aa___b^a^V`Y`aaa]Xa`X__VT¥a_a___YS¥UWV
@HWI-EAS443:3:74:1208:1202#0/1
CAGAATGAAGTGGATGATGGCAATGAGATACCCAATTACA
+HWI-EAS443:3:74:1208:1202#0/1
aab]bab`aa]b`aa`]ab¥Z_¥aa_ba___[¥aa`] `V`
@HWI-EAS443:3:74:120:1811#0/1
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+HWI-EAS443:3:74:120:1811#0/1
a`aaa`__¥^a`_]SS`Z^a`[^_a` `^XVZ_WXX¥]__
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+HWI-EAS443:3:74:1219:1998#0/1
aaa`b[a`a`Zaaaba_b`a`^a_¥[a_YaWV`a`aaZ`_
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+HWI-EAS443:3:74:1227:658#0/1
abb`bbbbbbabbabaabbaabbaabbaaaa^aa[aaa]a
@HWI-EAS443:3:74:1248:1088#0/1
CGGGTTCTTCTTGCCTTCCTGATGTGTACTTTTTGAT
+HWI-EAS443:3:74:1248:1088#0/1
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+HWI-EAS443:3:74:1253:737#0/1
a`ba`babbb` `aaa_aabbb`_b_aa]_`__`QWV^`^X
@HWI-EAS443:3:74:1270:822#0/1
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+HWI-EAS443:3:74:1270:822#0/1
````^PQUTaQ\_VN¥¥QXYQJ¥a` [UW]WQ[^`^\_U][¥  
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TTCAATTCGCCAGTTCTGGAAAAGCACTTTTGCATCTTTT  
+HWI-EAS443:3:74:1338:885#0/1  
ab\_\_aba`\_]\_]¥`aa\_Y^\_\_Y`^U^aaaa`Z`a]baa]  
@HWI-EAS443:3:74:1347:1642#0/1  
GTCAGTGAACGCAAGGAACTGAGAAGTTGACAATAACTT  
+HWI-EAS443:3:74:1347:1642#0/1  
```bbbab`bbababbbaababb`aaaaZaaa\_aa^aa`a`  
@HWI-EAS443:3:74:1366:1566#0/1
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+HWI-EAS443:3:74:1366:1566#0/1
aa`a`aa[a]^]_a`aU` ``_[aaa_K¥a[]_a`aP]]
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GAACCCCGCACTCAGAATGAAGTGGATGATGGCAATGAGA
+HWI-EAS443:3:74:1366:1834#0/1
aaa[``_]VaaY]^Y]aa`a]a`_]`^` [NZ[_`W]]
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GGGTATCTCATTGCCATCATCCACTTCATTCTGAGTGCGG

+HWI-EAS443:3:74:1386:720#0/1
]S^Xa`^^_a]`^aY_a_¥_^Z^M]]Z¥`_X¥FYV[¥UUQ
@HWI-EAS443:3:74:1407:537#0/1
GAATAAAAGAACTGAGAGATCTAATGTCGCAGTCCCGCAC
+HWI-EAS443:3:74:1407:537#0/1
``aa`aY]aa]Zaaa`VY]aYaaaa`_]aa_Y_V``Y^Z
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GTCCCGTTTTTCGTTTCATTACCAACTACGTCCCCTTGC
+HWI-EAS443:3:74:1433:763#0/1
a`a`_baaabaa_aa[aaaaaZa`Y`^a`a____`UZ¥^_[
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CATATCTCTTGTCTTCTTTGCCAAAATGAGAAATCCTCT
+HWI-EAS443:3:74:1450:523#0/1
abb__¥`_a`]Jaaaabbb_a`a[[]a¥abaaaaa`Ta
@HWI-EAS443:3:74:1455:1057#0/1
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+HWI-EAS443:3:74:1455:1057#0/1
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@HWI-EAS443:3:74:1485:1943#0/1
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+HWI-EAS443:3:74:1485:1943#0/1
aa^^`[Obaaa_aa`^aa_¥`^`]____`^X^W`_]^[`
@HWI-EAS443:3:74:1501:298#0/1
GTCCCGTTTTTCGTTTCATTACCAACTACGTCCCCTTGC
+HWI-EAS443:3:74:1501:298#0/1
a`[`[babbbab_ba]`aaa¥P^`W`_`^^`^V_R^_YVW
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+HWI-EAS443:3:74:1502:1016#0/1
^aX¥`^abaHaa`b`baXaa_[R`Q¥W`ba_¥aY_^]X]
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+HWI-EAS443:3:74:1586:196#0/1
ab_]Tba_baba`[Yb`]bbba_aba`bb`X]¥b_[¥__S
@HWI-EAS443:3:74:1595:57#0/1
GAGGATTTCTCATTTTGGGCAAAGAAGACAAGAGATATGG
+HWI-EAS443:3:74:1595:57#0/1
a^bb^`aab^_¥a]aab`W___a`b_R`_a]a_¥]Z^¥
@HWI-EAS443:3:74:1607:1053#0/1
AAAGAACTGAGAGATCTAATGTCGCAGTCCCGCACTCGCG
+HWI-EAS443:3:74:1607:1053#0/1
a_baRJ`bbb`b]]`a_bV]b^aaaab`Qa[RYa`WUaaT
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+HWI-EAS443:3:74:1608:955#0/1
aaaaaYaaa^aaaa`aabaaba`a__ba^a¥`aaQa_^`_`
@HWI-EAS443:3:74:1628:1511#0/1
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+HWI-EAS443:3:74:1628:1511#0/1
aa`aababaaaaaaaa`a__Z[_V]VW]_S][Y]]IOX^W[

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+HWI-EAS443:3:74:1634:287#0/1
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@HWI-EAS443:3:74:1659:713#0/1
GAGGAATGAACAAGGACAAACCCTCTGGAGCAAACAAAC
+HWI-EAS443:3:74:1659:713#0/1
_^bbbababbbaba^a^`bba¥]aXb`a`baaaa_aaaaT
@HWI-EAS443:3:74:1667:437#0/1
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+HWI-EAS443:3:74:1667:437#0/1
`bbaabababbaabaaaaab_a`a`a[Uaaaab_b`^a^
@HWI-EAS443:3:74:1694:1328#0/1
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+HWI-EAS443:3:74:1694:1328#0/1
]`]'Z`¥`¥]_S`U_bbbba^HQ`a^aa`W`_[aYZ¥]a
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+HWI-EAS443:3:74:1701:884#0/1
aR[Z``Ya^a¥¥X^`Y^]`aa_a`Xa_^aaaYY_Z][]RS
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+HWI-EAS443:3:74:1758:1581#0/1
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+HWI-EAS443:3:74:186:1513#0/1
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+HWI-EAS443:3:74:187:1131#0/1
aYOX^]aY`]^a__`Z_V``L¥ab_aH`_aYYG_TZX^^¥
@HWI-EAS443:3:74:191:223#0/1
CTTCCTGATGTGACTTTTTGATTATGGCCATATGGTCCA
+HWI-EAS443:3:74:191:223#0/1
a¥^^XQX¥]¥[Y]^a`a^aaa]^a^baXG]SK[LQ¥^
@HWI-EAS443:3:74:211:185#0/1
AAAAGAAGTGAAGATCTAATGTCGCAGTCCCGCACTCGC
+HWI-EAS443:3:74:211:185#0/1
aaaaaaaa_]`¥aa_a]`___aX__ZZ]V]^]]`V¥VWR]
@HWI-EAS443:3:74:277:307#0/1
GCTAGAGTCCCGTTTTTCGTTTCATTACCAACACTACGTCC
+HWI-EAS443:3:74:277:307#0/1
__Z`b_ZWZaa_[P¥a^¥]^a```a^TX`X[`]_a`][[]
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+HWI-EAS443:3:74:28:1444#0/1
aa`aa__aa_W`_`^TZW_]_]_^ZU]_UFS^SS^Z^^_]
@HWI-EAS443:3:74:294:1462#0/1
AAAAGAAGTGAAGATCTAATGTCGCAGTCCCGCACTCGC

+HWI-EAS443:3:74:294:1462#0/1
[^_aaaab`¥]b_]S_aa¥_aNARaR`VaaU_U]V¥^]
@HWI-EAS443:3:74:318:1361#0/1
CATCAAGGGAGCAATTTTACAATCCTGGAGCTCTTCTTTC
+HWI-EAS443:3:74:318:1361#0/1
aa^aaaaa¥`aa`_a`YaXQ]`a]]¥P__]]^____]^
@HWI-EAS443:3:74:319:1135#0/1
ACGACTTACAGTTCTTGGAAAGGATGCAGGTGCATTGACT
+HWI-EAS443:3:74:319:1135#0/1
aa`__`a[`¥_a`__a`[^a^`_`^`W^^_XZ__^_
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ACTTAACCAAGGGACGTGCTGGGAGCAGATGTACACTCC
+HWI-EAS443:3:74:363:1085#0/1
aa`aaaaa`aa`_`_`[`¥_____`_X__¥_¥W^]W]U
@HWI-EAS443:3:74:373:696#0/1
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+HWI-EAS443:3:74:373:696#0/1
]`babbbbabababbb_baaaaaaaa^ba]]XabaZa
@HWI-EAS443:3:74:398:1105#0/1
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+HWI-EAS443:3:74:398:1105#0/1
aaaaa_a`aaa[aaa_`_`a`_`_^^]Z]a^`^a]`^^U]
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+HWI-EAS443:3:74:412:1448#0/1
^abbbb_ab_S¥_b`abbabbbb]abbaab__a`aaV^_`
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+HWI-EAS443:3:74:481:1707#0/1
aabbbb`aabbaa`aabaaaa_aa]aaaaa`aa___`a
@HWI-EAS443:3:74:484:1552#0/1
GAGAATAAAAGAACTGAGAGATCTAATGTCGCAGTCCCGC
+HWI-EAS443:3:74:484:1552#0/1
_WTV[UYO^W^]``Y`a`^^aaa`S`S¥]^V]T[W]
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+HWI-EAS443:3:74:520:27#0/1
abaW`^ba]a`a`_a`a`^_aW`^_a_T_]___Y`W`W
@HWI-EAS443:3:74:553:38#0/1
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+HWI-EAS443:3:74:553:38#0/1
aaababaa_baaaaba`_aa_ab]_aaa`^_]^^¥QZZ]^
@HWI-EAS443:3:74:598:1296#0/1
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+HWI-EAS443:3:74:598:1296#0/1
a`a_aaaaaa_a`aaaa`a`__`a`___]a```_U`_AN¥
@HWI-EAS443:3:74:607:660#0/1
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+HWI-EAS443:3:74:607:660#0/1
Zba`Za¥`¥Z``SZ`bb^aZ`a``[¥`a]`VTL^^`XT]

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a¥aa_a]aa`aaa__a`_]``_`aY_a`^__]_a`_]¥^_Y
@HWI-EAS443:3:74:625:1526#0/1
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+HWI-EAS443:3:74:625:1526#0/1
^X`WSZ`aa^ZP_a_]_¥ab_XSV]JYXQYO_`__a_Y[X
@HWI-EAS443:3:74:625:1925#0/1
AAAGAAGTCTAATGTCGCAGTCCCGCACTCGCG
+HWI-EAS443:3:74:625:1925#0/1
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ab_aaab]`bb`aa[aba^a¥aaaaa^aab`^`b^Ua`__
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+HWI-EAS443:3:74:653:454#0/1
aWX```aa]aY[Z^_``^¥^[`__^W¥¥_`_X^`WW[YU
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+HWI-EAS443:3:74:667:1643#0/1
aW_```bb`bbbbbbbabbbbbbba`b_a¥`aababbaa
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+HWI-EAS443:3:74:671:1255#0/1
aaaaaa_VY^Za`aaaR^aaaaaaS_aaaa[a____]]^^`
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+HWI-EAS443:3:74:673:853#0/1
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+HWI-EAS443:3:74:675:507#0/1
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+HWI-EAS443:3:74:682:691#0/1
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+HWI-EAS443:3:74:79:305#0/1
`^¥`_][a_a]a][R_]¥U`_ZZ]Y[^a^¥¥W]VUX^W¥]
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+HWI-EAS443:3:74:802:1365#0/1
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+HWI-EAS443:3:74:814:786#0/1  
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+HWI-EAS443:3:74:866:1030#0/1  
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aaaa^`aa¥aaa`\_¥\_aa[\_`a^\_¥`^¥\_]^VV^^¥¥W`  
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aa[b\_W`]b^aaa\_^^a`\_a`Wa\_]aa^Vaa`^]\_a^^\_`^  
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+HWI-EAS443:3:75:1201:1227#0/1  
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+HWI-EAS443:3:75:1247:1675#0/1  
a`Z]Z]^`a`a`a`Z]Y[a\_\_¥`X\_[aa]¥U\_\_\_aYa[`¥  
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aa¥baba\_\_ba[baaY^\_a`W^Wq]\_a`\_aa\_\_WZ^a`\_  
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a[``ab`aaaa\_\_a`U\_^`¥\_\_U[\_`^a\_`S¥Y]`TW¥Y



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+HWI-EAS443:3:75:1603:1522#0/1  
aa`Y[\_[\_[RPR\_X[\_[\_a\_¥VV¥ZaQW^U\_¥¥Z^Q¥Y\_  
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a`\_``\_`W`]\_aa\_```\_^`a]`a^Z`\_a\_\_`\_aTZ^^T]  
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+HWI-EAS443:3:75:296:328#0/1  
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+HWI-EAS443:3:75:384:1583#0/1  
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+HWI-EAS443:3:75:43:328#0/1  
aa`\_\_a\_\_a^`a^a``\_\_\_\_\_U^X`RZX\_``\_\_^^U\_]X^^  
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+HWI-EAS443:3:75:658:689#0/1  
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+HWI-EAS443:3:75:735:250#0/1  
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+HWI-EAS443:3:75:747:1005#0/1  
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+HWI-EAS443:3:75:839:820#0/1  
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+HWI-EAS443:3:75:844:493#0/1  
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+HWI-EAS443:3:75:880:1160#0/1  
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+HWI-EAS443:3:75:917:378#0/1  
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+HWI-EAS443:3:75:984:986#0/1  
^¥ZYS^TQ¥aaa\_N¥`¥aaa[ab`XOV]aa]]¥RY\_[¥Y`  
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+HWI-EAS443:3:75:994:1508#0/1  
¥[\_[abb¥aaabba[a``bbbba^]\_H\_QabZZ\_\_¥\_a¥W  
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+HWI-EAS443:3:76:1003:1167#0/1  
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+HWI-EAS443:3:76:1024:1743#0/1  
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+HWI-EAS443:3:76:1042:585#0/1  
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a`a`aabaV]ZV]`S\_`a[Pa`YZ[[^NRZS[STW[V^  
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+HWI-EAS443:3:76:1060:1214#0/1  
^V\_aa[^R\_`¥^Z`Z^M`[Xa]Ya\_aaaa^\_ZNYaa^ZZ  
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+HWI-EAS443:3:76:1081:1793#0/1  
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+HWI-EAS443:3:76:1229:848#0/1  
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+HWI-EAS443:3:76:122:889#0/1  
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+HWI-EAS443:3:76:1261:1228#0/1  
a\_aa\_a`a\_\_\_\_`[\_\_\_\_Z\_a¥V¥`\_X^`Z\_W\_^`\_]X^^  
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+HWI-EAS443:3:76:1284:1177#0/1  
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+HWI-EAS443:3:76:1286:140#0/1  
a`\_\_\_\_aa\_^^a^]\_\_W[Za]`a`W¥`X``Z¥U]ZHYOZZ  
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+HWI-EAS443:3:76:1343:2024#0/1  
Z\_Z[¥`YS¥[aWG[S[aUW¥^¥a\_`Ua]\_ZSS]LVa]PG[  
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+HWI-EAS443:3:76:1359:140#0/1  
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+HWI-EAS443:3:76:1365:272#0/1  
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+HWI-EAS443:3:76:1407:871#0/1  
a`\_a\_^^a^]Z\_\_¥^^^MR]^\_O\_WW\_W\_¥ZXY^^OWXX  
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+HWI-EAS443:3:76:1502:491#0/1  
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+HWI-EAS443:3:76:1546:591#0/1  
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+HWI-EAS443:3:76:156:1119#0/1  
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+HWI-EAS443:3:76:1599:1555#0/1  
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+HWI-EAS443:3:76:161:1735#0/1  
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+HWI-EAS443:3:76:1689:1462#0/1  
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+HWI-EAS443:3:76:1764:225#0/1  
``\_ZX¥X]]^\_``\_YYa`X]aX¥a\_aYVS\_\_\_\_]^`Y  
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+HWI-EAS443:3:76:294:729#0/1  
aa\_a\_a^``a`aW`^ZZ```¥^Z\_\_^Y¥]^`\_^`[]]¥W  
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+HWI-EAS443:3:76:300:1302#0/1  
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+HWI-EAS443:3:76:34:1066#0/1  
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AAAAGAAGTCTAATGTCGCAGTCCCGCACTCGCG  
+HWI-EAS443:3:76:366:2030#0/1  
aa^a)`aaaa\_`^`^a`aa`Ya^aa]X``[P[L¥X^]]  
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aaa`\_`ba`aaa\_a`a^a``^a\_`a`\_]\_\_\_\_\_Z\_\_X\_^`  
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a¥a^^a\_][a^\_]\_`a`\_\_a]a\_\_`[PS]\_Wa[a¥]X]N  
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aa[Ya]^\_\_\_\_ZZ\_QQ]\_Y\_\_`a`\_]\_]\_]^^R^XZ]]^  
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+HWI-EAS443:3:76:502:1290#0/1  
`\_\_L\_Ya\_\_¥]Ra[`^a^X¥aa``\_`aa`WZ]SP]^X[\_  
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+HWI-EAS443:3:76:52:559#0/1  
a\_]a]\_a\_P^\_`\_`VRX\_] [a`¥^0^^[QW[[]^VWZ  
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+HWI-EAS443:3:76:544:391#0/1  
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TCCCGTTTTCGTTTCATTACCAACTACGTCCCCTTGCC  
+HWI-EAS443:3:76:563:124#0/1  
aa`ab^`ab\_a\_aa``aaa\_\_aa^`]\_\_\_\_]]]]^]]ZXZ  
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a¥\_]`^N\_¥\_VS`\_\_[YNYQ\_¥ZX]X]VSRVWX\_RY^^YU  
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+HWI-EAS443:3:76:758:1736#0/1  
abb`WT[¥a\_\_]\_W¥Y\_aXaZ^\_SIW\_ZW¥]Y^][ZDRVY  
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+HWI-EAS443:3:76:777:657#0/1  
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+HWI-EAS443:3:76:818:1446#0/1  
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+HWI-EAS443:3:76:821:322#0/1  
]b`bbbab`ba^abaab¥aaba`bb\_abaaa¥`aa`^^[[  
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+HWI-EAS443:3:76:844:1768#0/1  
aVaab[baWb^YaWaaaab\_T\_`^a[`\_^aG`aYMS\_TKM  
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+HWI-EAS443:3:76:863:862#0/1  
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+HWI-EAS443:3:76:882:1021#0/1  
aa\_`a^`^aaa``aa`P\_]\_]\_`¥^`\_`\_`^[\_`\_`\_`^`ZS  
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^`\_`aaaabba\_`aaa\_`abbaaa[]`¥`a[^`\_`\_`¥^^[\_`¥Y\_  
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+HWI-EAS443:3:76:896:986#0/1  
U\_OZYROY¥WZ¥\_Z]aWQZX]Q\_Z[HR[\_]VOPU]UZSY[  
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+HWI-EAS443:3:76:897:538#0/1  
aaaa\_a]aa`]^]¥^W][[\_`\_`^`\_`Y¥Z`aZYZW[Z]ZV¥  
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+HWI-EAS443:3:76:941:1370#0/1  
U\_b``^a¥a`\_\_\_\_`bbbab`bbbb]`a\_]¥]]][P[PL[\_  
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a\_aRGMZ[``¥VPZ[Q\_`Q[U^^¥^¥GSR[MV¥BBBBBBBB  
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+HWI-EAS443:3:76:975:596#0/1  
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ATTGACTGAAGATCCAGATGAAGGCACATCTGGGGTGGAG  
+HWI-EAS443:3:77:1055:1784#0/1  
]^]]``a`ab]``]¥`aX¥[¥X¥[\_`Za\_`^\_`WPY\_U\_\_^\_  
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K\_\_bbaa\_]ba^a^\_[[aaaaZaa`a\_bSb^a]`¥W`\_T  
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\_aZ`aa¥¥a\_`^a¥a`^aa\_a\_\_aa^a`aa\_\_V¥\_\_¥\_`^¥a  
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`\_`aa`R`a`R`][¥\_ZY][¥NWZ\_Z^WUR[¥VNW¥Z^S  
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GAGGATTTCTCATTTTGGGCAAAGAAGACAAGAGATATGG  
+HWI-EAS443:3:77:1195:1273#0/1  
`a¥¥][a¥bbaaaa\_`[\_`aa`K^aaaV\_``\_`\_]\_¥  
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aa\_[aaaaabaaaa\_aa`a\_0`b``\_ZYa\_a^G\_]\_a]]¥`  
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\_`ab`aaabaa^\_a\_a^`^^aa\_`^`aW`[^\_[^\_\_\_^\_]`  
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aYaS[Z[ZZSUS[W]^ [NN[\_¥PTVXZZ]USZV^XZSX^  
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R\_bbabaab]bb\_ab]ba`]`bbaab`baa`¥¥a`a¥Xa\_  
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\_¥\_IVX\_``[\_PV\_ba\_^^R¥W[Z`a^TKa]ZPT`TRYRH  
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aa^`aaa¥^S\_a]U[\_aX\_J[N^RNHH\_UVU\_¥^^WV\_V



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]\_[aabbbba\_aabab`Zaabbbba¥abaaba^^bbaaaa  
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[\_`¥U`^a\_\_Z\_Va\_¥ZababaZZ]aXT¥¥Y[¥UXXX\_Q  
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¥\_a\_b[\_`abb\_[`aaa]^WZ`a\_PXZ[aaa\_`\_\_a^a`a  
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aa\_ba^bb`a``aaaab\_aa`a`a\_aaa[\_`\_a]\_^\_\_`a  
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aa`U¥aa`a]`]a^aaaYa`]a\_`^Za`^^`Z`Z^¥  
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+HWI-EAS443:3:77:263:1564#0/1  
`baba]^[\_`bbaba^[^\_X\_`W¥a[\_[X]`R¥][X\_abZ^  
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\_b\_baab[]`b\_a]a^aaaabaa\_a]aa\_aVaa`a[aa]a  
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+HWI-EAS443:3:77:43:1131#0/1  
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+HWI-EAS443:3:77:495:1859#0/1  
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+HWI-EAS443:3:77:519:364#0/1  
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+HWI-EAS443:3:77:562:1688#0/1  
aaaa^aaaaa\_aaaaaa`\_aaaa\_aa]Y`^`\_`^TU[\_\_\_  
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+HWI-EAS443:3:77:619:1111#0/1  
aababbaaaba\_aabbabbaababaa`a`^aaa\_]^\_\_  
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AGAACCCCGCACTCAGAATGAAGTGGATGATGGCAATGAG  
+HWI-EAS443:3:77:635:1223#0/1  
¥`\_`\_aa`\_Z\_^a\_]a¥`]a]\_`[]^]¥TZ\_]URYW]]¥  
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+HWI-EAS443:3:77:649:1665#0/1  
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+HWI-EAS443:3:77:719:754#0/1  
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aaaaaZX\_b`baa]ab]b\_b`Zb\_b^a\_¥]¥¥b]OK¥M]Y  
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+HWI-EAS443:3:77:766:1717#0/1  
a\_\_ba¥^a]a[`¥bbaaaaaaaaaaba^aba]¥aaa`aaa  
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CATTTCTCACTTCTCCTCCTGGAGTGTACATCTGCTCCCA  
+HWI-EAS443:3:77:793:57#0/1  
`\_bba\_b^bZba^\_T]baZab\_Z^¥b`b\_bUbbab\_a`S  
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+HWI-EAS443:3:77:811:1773#0/1  
]\_\_\_a¥\_¥Zabb]a¥^\_\_a¥b`b\_\_Xaab`a`a`\_`aaba  
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+HWI-EAS443:3:77:817:1536#0/1  
a`]aa^^\_ZabaZHYQ¥[aU\_\_aaa`\_`a\_aaaa^aY`X\_  
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+HWI-EAS443:3:77:880:1963#0/1  
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+HWI-EAS443:3:77:905:1280#0/1  
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+HWI-EAS443:3:77:913:972#0/1  
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+HWI-EAS443:3:77:923:754#0/1  
U\_b¥`\_\_bbbab¥`b^`b]aS\_X`aa^U^`[``U^b





+HWI-EAS443:3:78:1320:544#0/1  
V^a`^`bZ`¥\_\_`b\_]a`ba¥Q`a]]b`a¥^a`aa]  
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+HWI-EAS443:3:78:1359:380#0/1  
aa]a]^`a]aa]¥XW`U^V`¥S\_[W\_^^^Z\_]`^WZFQVG  
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ab\_aa`\_aaaaa]]`\_^`U^\_]\_UZ]^X]^`[R^W\_`Z]`]  
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GTGGGTTCACTTTCAAAGGACAAGCGGATCATCAGTCAA  
+HWI-EAS443:3:78:1611:234#0/1  
a`aaa`\_`\_0aa\_^\_a`\_`^Z^Z\_¥\_]¥]\_\_^^\_WXZ[  
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+HWI-EAS443:3:78:1692:926#0/1  
`V`a\_PT\_\_`aa\_U\_]V`Y``]VFL¥\_S[U^Q]^`]RRX]  
@HWI-EAS443:3:78:1728:1234#0/1  
GTTGGGCCATTCTATTCCACCATGTTACGGCCAGAGGTG  
+HWI-EAS443:3:78:1728:1234#0/1  
a[R^aaS`^a\_^`Saa\_¥a^¥a\_\_\_\_\_^`ZSUBBBBBB  
@HWI-EAS443:3:78:173:767#0/1  
CAGAGTAGGATGCAATTTTCCTCATTGACTGTGAATGTGA  
+HWI-EAS443:3:78:173:767#0/1  
a[a\_]``aa]aaa]aa\_\_\_aaaa\_`aa\_^`bY`¥\_]XYUV  
@HWI-EAS443:3:78:1741:704#0/1  
CAATATAAACACTGCCTGTTCCGCCGCTACTGGGAGAAA  
+HWI-EAS443:3:78:1741:704#0/1  
aaabaaa^a`aa`^Z`VZV¥\_a`Z\_a[\_]L[Y\_ZS[QTY  
@HWI-EAS443:3:78:1749:969#0/1  
CATTGATAAGTGTGACTAGCACTGACTCAGGGCCATTGA  
+HWI-EAS443:3:78:1749:969#0/1  
]abb`Z¥b\_aYaYabbaaaaa[\_ZZ\_a¥aaa`YSP¥T]W  
@HWI-EAS443:3:78:177:1729#0/1  
ATCTAATGTCGCAGTCCCGCACTCGCGAGATACTCACTAA  
+HWI-EAS443:3:78:177:1729#0/1  
aab^a`ZMTWS`[[LW\_]R]Z]OZRZTX^¥UZPSYTRMBB  
@HWI-EAS443:3:78:197:999#0/1  
AAGAAGTGAAGATCTAATGTCGCAGTCCCGCACTCGCGA  
+HWI-EAS443:3:78:197:999#0/1  
T^aJU\_aa`^\_```aaa`aYU\_]\_\_]N)`\_``P^]VT[\_^  
@HWI-EAS443:3:78:204:889#0/1  
GCAACACTTCAATATAAACACTGCCTGTTCCGCCGCTAC  
+HWI-EAS443:3:78:204:889#0/1  
a`baaaaaaaaaaaaa`¥^a\_a`\_\_`a^\_``aa`[^\_^]R  
@HWI-EAS443:3:78:236:1140#0/1  
ATCTAATGTCGCAGTCCCGCACTCGCGAGATACTCACTAA  
+HWI-EAS443:3:78:236:1140#0/1  
a`\_\_aa\_aW\_W``\_W¥`aW`¥\_W]¥^¥VW¥WWW^WWWXWWW  
@HWI-EAS443:3:78:260:478#0/1  
GGGACGTAGTGTGGTAATGAAACGAAAACGGGACTCTAG  
+HWI-EAS443:3:78:260:478#0/1  
`a`aab\_`a`aaaba^a\_P\_a^\_a```]\_W`^`Z]]`^^^  
@HWI-EAS443:3:78:261:618#0/1  
GAATAAAAGAACTGAGAGATCTAATGTCGCAGTCCCGCAC  
+HWI-EAS443:3:78:261:618#0/1  
aaa¥aba`aaaa`\_`a\_a\_``a`Z`a]a]\_\_\_Z^\_^]]N¥  
@HWI-EAS443:3:78:261:884#0/1  
AAAGAAGTGAAGATCTAATGTCGCAGTCCCGCACTCGCG  
+HWI-EAS443:3:78:261:884#0/1  
abbaa\_aa\_a`a``aa[aaabVa\_\_`\_[\_¥Q]RY]\_R^]  
@HWI-EAS443:3:78:281:773#0/1  
TTGGGTATCTCATTGCCATCATCCACTTCATTCTGAGTGC

+HWI-EAS443:3:78:281:773#0/1  
a]a¥FP\_^\_abU¥\_aab`ab`aa]`^a\_YZ¥a\_a\_Ta]aQ  
@HWI-EAS443:3:78:327:77#0/1  
TGCCCCACTTCATTTGGGAAAACAATTCCATAATCACA  
+HWI-EAS443:3:78:327:77#0/1  
aba¥V^\_a`Y`^¥]U¥]\_Z^X¥R]]Y\_ZZR[^ZN^TTSX  
@HWI-EAS443:3:78:347:1150#0/1  
TAATGTCGCAGTCCCGCACTCGCGAGATACTCACTAAGAC  
+HWI-EAS443:3:78:347:1150#0/1  
aa`abaa¥`b^\_`abab`bab]aaaaaaaa^^aa`aaa¥`^  
@HWI-EAS443:3:78:379:332#0/1  
CCGCACTCGCGAGATACTCACTAAGACCACTGTGGACCAT  
+HWI-EAS443:3:78:379:332#0/1  
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+HWI-EAS443:3:78:430:451#0/1
aaaab_`aaab_`aa_a`a`^aa_`_```__^__^U^^
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+HWI-EAS443:3:78:435:722#0/1
a_UZ]VT¥XZ`Z]TV¥¥X¥]Z[^¥[`Y¥[L[XEVRVSYYZ
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+HWI-EAS443:3:78:441:1202#0/1
aW`¥Xa[[]]aab`a^[aT_Sa¥S]YaRb¥ab^^_aaUSNZ
@HWI-EAS443:3:78:454:701#0/1
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+HWI-EAS443:3:78:454:701#0/1
a_a]]aaUa__`¥aaa_]WW]``¥_R_^__^VYY^_W
@HWI-EAS443:3:78:465:118#0/1
CCAGGATTGTAATAATTGCTCCCTTGATGGTGGCGTACATG
+HWI-EAS443:3:78:465:118#0/1
aabb`aab`aaaaabbba``_```_]`a0a_Qa[^Z^Z`
@HWI-EAS443:3:78:46:17#0/1
AAAAGAACTGAGAGATCTAATGTCGCAGTCCCGCACTCGC
+HWI-EAS443:3:78:46:17#0/1
W^¥aaW¥`a`^_`aaY^```a_V[baa¥FTR_a0DV^YPT
@HWI-EAS443:3:78:51:1178#0/1
CTGTGGACCATATGGCCATAATCAAAAAGTACACATCAGG
+HWI-EAS443:3:78:51:1178#0/1
aa`)]`[G[]XY[VSV^^¥UNOVVVZZWVVU^XUVVYVVV
@HWI-EAS443:3:78:526:1598#0/1
AATGAAGTGGATGATGGCAATGAGATACCCAATTACAGCA
+HWI-EAS443:3:78:526:1598#0/1
`VYa`Y[^a]]_`_Z`a`_a^a``^Xa`aN`[]X`__Z^]
@HWI-EAS443:3:78:528:1882#0/1
CCTTGTTTTACGGACCAATTCTCTTTCTAGCATGTACGCC
+HWI-EAS443:3:78:528:1882#0/1
`a`OIPX^]_aY^`YYa``_U^__Y]`]a_Y`UQZ`UY^T

@HWI-EAS443:3:78:547:1849#0/1
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+HWI-EAS443:3:78:547:1849#0/1
U_`]bbaaabaaa`a¥]U_]_^XQN_`bab]`VZT`ZW]TL
@HWI-EAS443:3:78:562:1436#0/1
CGTTTTCGTTTTATTACCAACTACGTCCCCTTGCCCAA
+HWI-EAS443:3:78:562:1436#0/1
ab`bbbb`bbbaabb`baab_aaa_^a^aaa_^aaa` [
@HWI-EAS443:3:78:564:1191#0/1
GAGAATAAAGAAGACTGAGAGATCTAATGTCGCAGTCCCGC
+HWI-EAS443:3:78:564:1191#0/1
`Za]]]]^U^a¥a````[``WW[aaZWWa]`Z``^LFTVV]
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TCCCGTTTTCGTTTTATTACCAACTACGTCCCCTTGCC
+HWI-EAS443:3:78:580:1667#0/1
¥a¥U_Ma¥`S_RZ¥_¥[NZ_¥[_Za]_¥UXO_VX_]H¥WR
@HWI-EAS443:3:78:593:1726#0/1
CGCACTCGCGAGATACTACTAAGACCACTGTGGACCATA
+HWI-EAS443:3:78:593:1726#0/1
a__Z]aa^a___`__`_a`_a_W_____^YWYX_^]
@HWI-EAS443:3:78:648:1841#0/1
TAATGTCGCAGTCCCGCACTCGCGAGATACTACTAAGAC
+HWI-EAS443:3:78:648:1841#0/1
aba__Ra^aba_ba``babaa`aa`aa_aZaaaa_a`____
@HWI-EAS443:3:78:667:601#0/1
CGTACATGCTAGAAAGAGAATTGGTCCGTAACAAGGTT
+HWI-EAS443:3:78:667:601#0/1
¥_I_aa`_¥]¥_¥ZS]^a¥``VSZYGO¥[X__U¥^]a`RV
@HWI-EAS443:3:78:675:1155#0/1
CCCGTTTTCGTTTTATTACCAACTACGTCCCCTTGCCC
+HWI-EAS443:3:78:675:1155#0/1
a```¥_aaba`aaaa`b`a``aa`_T_^Za_____a^]a_
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CGTTTTCGTTTTATTACCAACTACGTCCCCTTGCCCAA
+HWI-EAS443:3:78:68:911#0/1
ab`aaabb`aaaa`baY_aaa`aba_]aa__^`_`]^`_
@HWI-EAS443:3:78:690:380#0/1
CGTTTTCGTTTTATTACCAACTACGTCCCCTTGCCCAA
+HWI-EAS443:3:78:690:380#0/1
ababbbab`bb`bbabaaabab`ab^aaa_aa__a_`^`_
@HWI-EAS443:3:78:692:872#0/1
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+HWI-EAS443:3:78:692:872#0/1
aaaaa`aaa`aaaa`_`a`aa]`_`[_`^]__Xa^^^]]X
@HWI-EAS443:3:78:699:1178#0/1
AAAGAAGACTGAGAGATCTAATGTCGCAGTCCCGCACTCGCG
+HWI-EAS443:3:78:699:1178#0/1
aa_U_]_a¥T`_a_¥[__Xaa[¥V[``M^`b^XOV^aZ]^
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+HWI-EAS443:3:78:752:149#0/1
a^_[RbWQ^_W¥^_]_^[_V]^X^XW¥X^RVXYXOLQX
@HWI-EAS443:3:78:765:153#0/1
CCCCTTTTCGTTTCATTACCAACTACTGCCCTTGCCC
+HWI-EAS443:3:78:765:153#0/1
``ab_aabab_aaaa`a__`_]a____]a]____]_^]_]XU
@HWI-EAS443:3:78:768:1838#0/1
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+HWI-EAS443:3:78:768:1838#0/1
a_`baa[ab]ab_bb_¥_a]aab`Y`^bbbab_aaaa_a`
@HWI-EAS443:3:78:774:1217#0/1
CTGGGGTGGAGTCTGCTGCTCCTGAGAGATTCTCATT
+HWI-EAS443:3:78:774:1217#0/1
aba_X_¥baaa[aaaaa]`aaaaaab`__`a`a`aa`a`
@HWI-EAS443:3:78:778:1231#0/1
TGCCCGTTAGCACTTCTTCTTCTTCTTGACTGATGATCC
+HWI-EAS443:3:78:778:1231#0/1
`abb^a__`aa_`aa`baaba`aa`aaaaaaaa__`Z^
@HWI-EAS443:3:78:792:802#0/1
CTAATGTCGCAGTCCCGCACTCGCGAGATACTCACTAAGA
+HWI-EAS443:3:78:792:802#0/1
a`XZaa^`a^X`R^`____[__¥``aR`S¥¥V]Z_¥^YOU[
@HWI-EAS443:3:78:80:1353#0/1
GTCCCGTTTTCGTTTCATTACCAACTACTGCCCTTGCC
+HWI-EAS443:3:78:80:1353#0/1
``bbbbYa^bbaX`aa]aaabb`^`ba^_``^``]`__`]
@HWI-EAS443:3:78:864:1380#0/1
ATCATTCTCATTCTCCTCCTGGAGTGTACATCTGCTCC
+HWI-EAS443:3:78:864:1380#0/1
UZba`)]`baX[]_aa`TVZSX^____]Qaa^M_Ra_`US
@HWI-EAS443:3:78:921:1430#0/1
CTGCTGCTCCTGAGAGATTCTCATTCTTGGCAAAGAAGA
+HWI-EAS443:3:78:921:1430#0/1
X`a^¥_0_¥``bY_`^Zab`YaaX^b`^VHWaX^Z]aabX
@HWI-EAS443:3:78:937:239#0/1
GAGAATAAAAGAACTGAGAGATCTAATGTCGCAGTCCCGC
+HWI-EAS443:3:78:937:239#0/1
a`ba`aaaa`a^aaaa`a`^aa_`a]Z````^V^XY]
@HWI-EAS443:3:78:95:1115#0/1
TTGGGTATCTCATTGCCATCATCCACTTCATTCTGAGTGC
+HWI-EAS443:3:78:95:1115#0/1
`_^aXbab_ba``abaZ^aa_aa¥a__X^^^`]_¥`W`^
@HWI-EAS443:3:78:988:1372#0/1
AGAACTGAGAGATCTAATGTCGCAGTCCCGCACTCGCGAG
+HWI-EAS443:3:78:988:1372#0/1
aa`a¥aa__a^a`^`a`_aW_¥_]`W¥^_V`S_¥¥_¥_W^
@HWI-EAS443:3:78:990:1048#0/1
GTTGCTCTTCTCCAACCATTGTGAATTCTTCATACCCTT
+HWI-EAS443:3:78:990:1048#0/1
a`abaaaabaa`a_aa``¥`_R¥`XX_dWaa__`^^Z]`^

@HWI-EAS443:3:79:1005:1277#0/1
TTGGGTATCTCATTGCCATCATCCACTTCATTCTGAGTGC
+HWI-EAS443:3:79:1005:1277#0/1
¥_VYO^VT_X^`a`_¥__[^_P]]_a^^]]¥^`^_QW]`Z
@HWI-EAS443:3:79:1075:1236#0/1
GTCGCAGTCCCGCACTCGCGAGATACTCACTAAGACCACT
+HWI-EAS443:3:79:1075:1236#0/1
a_`^`¥¥`aa__^___`_¥¥_¥_¥¥^V¥¥_`^U¥¥^¥_¥
@HWI-EAS443:3:79:1081:1918#0/1
GTGGGTTCACCTTCAAAAAGGACAAGCGGATCATCAGTCAA
+HWI-EAS443:3:79:1081:1918#0/1
a[aa]XY[T]aaX`[_Z]`V^`_^`_[[^WZ]]^ZWR¥R
@HWI-EAS443:3:79:1084:2008#0/1
CATGATTCCAGAGAGGAATGAACAAGGACAAACCTCTGG
+HWI-EAS443:3:79:1084:2008#0/1
a`]bbbbbb`_ab^¥aaba]aaaa¥V_ab`_UP]Z_]aa
@HWI-EAS443:3:79:108:530#0/1
ACTGAAGATCCAGATGAAGGCACATCTGGGGTGGAGTCTG
+HWI-EAS443:3:79:108:530#0/1
a^`][`¥a][[]][T]YVNX[XXQN^Y``[¥[M^`¥¥MSWY
@HWI-EAS443:3:79:1153:570#0/1
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+HWI-EAS443:3:79:1153:570#0/1
]bbbbaaaa¥aa`^_[a^__a`Za`a_U^][M`[_aX[_
@HWI-EAS443:3:79:1157:1862#0/1
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+HWI-EAS443:3:79:1157:1862#0/1
aba^a_]_aZZ_a`_[^^ZaYX[`[a]_aaaa]S`Z`¥MM
@HWI-EAS443:3:79:1194:809#0/1
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+HWI-EAS443:3:79:1194:809#0/1
HT`¥W_QY__V`¥WZTZ`a¥IQNO_a`S[[[FZa`¥SS[a
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+HWI-EAS443:3:79:1256:437#0/1
abbbbbb`aaaa`babbbabbaabb`b`bbaabab`ba`b
@HWI-EAS443:3:79:1262:422#0/1
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+HWI-EAS443:3:79:1262:422#0/1
abbb_bbbbbabaabbaabb_abaaaa]aaaa`b_b]a_^a
@HWI-EAS443:3:79:1292:1757#0/1
AAAGAAGTCTGAGAGATCTAATGTGCGAGTCCCGCACTCGCG
+HWI-EAS443:3:79:1292:1757#0/1
[`baJaaa]a`a_b[abb_``[_a_a_ZU]NZaUaU^VLU
@HWI-EAS443:3:79:1298:946#0/1
GCAGTGTGAGCAGACCCATTAGCATCTCTCTTGGAAATGT
+HWI-EAS443:3:79:1298:946#0/1
a`bbbbbaabbbababaaaabb`bbabbbabba^abb`U`
@HWI-EAS443:3:79:129:739#0/1
ATGCACCAACTCTTGAGGCATTTCCAAAAAGATGCAAAAAG

+HWI-EAS443:3:79:129:739#0/1
a_aaX^aY]__a__aaaa`__`a`_Y^`_Z`^a`YN]
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CGCACTCAGAATGAAGTGGATGATGGCAATGAGATACCCA
+HWI-EAS443:3:79:1378:1808#0/1
Yb`bbbbbbbbbbab¥bababb`b``babaabaab_]_a
@HWI-EAS443:3:79:1392:1143#0/1
AACTGGATCAATCTCCTGGTTGCCTTTCTGAGAATAGCTG
+HWI-EAS443:3:79:1392:1143#0/1
ab`_abba`[QaUa^^¥ba]`b]`aa`VaY_a`aaaZ5]a
@HWI-EAS443:3:79:1417:1089#0/1
ATTGACTGAAGATCCAGATGAAGGCACATCTGGGGTGGAG
+HWI-EAS443:3:79:1417:1089#0/1
ab_ababaaabaaaQb[a`aa_[`a__`_[_]a¥aST^R]
@HWI-EAS443:3:79:1448:1715#0/1
ACTAAGACCACTGTGGACCATATGGCCATAATCAAAAAGT
+HWI-EAS443:3:79:1448:1715#0/1
`aaaaaa_aaaaaUU^aa`a^]`¥]X`_`ZW]Wa¥_XKE
@HWI-EAS443:3:79:1448:868#0/1
GGGCGATCTGAACCTTGTCAATAGGGCAAACCAGCGACTG
+HWI-EAS443:3:79:1448:868#0/1
aa`_]ab`aba`_babaa```a^`^¥^a_V[a`]`_U[a
@HWI-EAS443:3:79:1490:1769#0/1
CTGTAATTGGGTATCTCATTGCCATCATCCACTTCATTCT
+HWI-EAS443:3:79:1490:1769#0/1
aba_aabbbb_ab`baba`a_¥ab`ba^[aaba`_a``a
@HWI-EAS443:3:79:1599:742#0/1
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+HWI-EAS443:3:79:1599:742#0/1
abaabbbabaaaba^abba_ba`babbWVaababaaa`a
@HWI-EAS443:3:79:1635:47#0/1
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+HWI-EAS443:3:79:1635:47#0/1
aaX[^_aY`[_VYaX_aaZ]Y`R`aa^WRWYa]RTQUWW[
@HWI-EAS443:3:79:170:1835#0/1
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+HWI-EAS443:3:79:170:1835#0/1
¥¥aaa`abaaa`a¥^a][``[a]``¥T`_ZX``a¥XS_]]
@HWI-EAS443:3:79:1710:908#0/1
CTCATTGCCATCATCCACTTCATTCTGAGTGCGGGGTTCT
+HWI-EAS443:3:79:1710:908#0/1
abbbbaaaba`a]aaabbabbabbabb]baa_a¥``Zaab
@HWI-EAS443:3:79:1767:340#0/1
AAAGAAGTGAAGATCTAATGTCGCAGTCCCGCACTCGCG
+HWI-EAS443:3:79:1767:340#0/1
Z]¥_¥ZaX`_a`ZXY]_V¥SYY^P`P[SYS¥[ZSRRT[
@HWI-EAS443:3:79:17:222#0/1
ATCTAATGTCGCAGTCCCGCACTCGCGAGATACTCACTAA
+HWI-EAS443:3:79:17:222#0/1
aaaaa_a`¥__¥¥¥Y__^W[H[Y^¥WZSZYWWWZUTY¥Y

@HWI-EAS443:3:79:654:1382#0/1
AAAGAAGTCTAATGTTCGAGTCCCGCACTCGCG
+HWI-EAS443:3:79:654:1382#0/1
a]L_`bbaa`]Y[_aa]a¥`P`a`][UaX`_`T_¥[Xa¥
@HWI-EAS443:3:79:667:913#0/1
AAAAGAAGTCTAATGTTCGAGTCCCGCACTCGCG
+HWI-EAS443:3:79:667:913#0/1
_W_aZG]^a`aa^aa`a_S]aZa`a`_V__^[^]_Y`]]
@HWI-EAS443:3:79:691:739#0/1
CGCACTCGGAGATACTCACTAAGACCACTGTGGACCATA
+HWI-EAS443:3:79:691:739#0/1
aba`aaaaba_¥¥aa_bb__^_`aaaaaa¥Y]a`[] []_P
@HWI-EAS443:3:79:717:133#0/1
CCCGTTTTCGTTTTATTACCAACTACGTCCCCTTGCCC
+HWI-EAS443:3:79:717:133#0/1
aa^b]aabab`aaaba`[_a_Waa`a_a¥^^`][]W^_
@HWI-EAS443:3:79:802:599#0/1
GCTGCTCTGAGAGGATTTCTCATTGTTGGCAAAGAAGACA
+HWI-EAS443:3:79:802:599#0/1
aa_SS]`b`aPX_[_a`_aa`a`aaa`a_aa`[_`^`^
@HWI-EAS443:3:79:805:918#0/1
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+HWI-EAS443:3:79:805:918#0/1
^UTUYX_MQTbbX`Q_[YMW¥`WNTYZWW`]_XTXQX¥PZ
@HWI-EAS443:3:79:807:283#0/1
GTCCCGTTTTCGTTTTATTACCAACTACGTCCCCTTGCC
+HWI-EAS443:3:79:807:283#0/1
a`aaab¥aa___R_aaaa]_^U^`_a`aa_aTα]_]__`_
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+HWI-EAS443:3:79:807:533#0/1
aaaabbababbbbaa`aaaaaaaa^aa`^aaaa__TYZ
@HWI-EAS443:3:79:824:622#0/1
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+HWI-EAS443:3:79:824:622#0/1
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@HWI-EAS443:3:79:82:1660#0/1
CTGTAATTGGGTATCTCATTGCCATCATCCACTTCATTCT
+HWI-EAS443:3:79:82:1660#0/1
a_^¥a]aa`^R¥a_aaa]_^_a`Z]`^aa¥__^^Z^__^
@HWI-EAS443:3:79:837:1663#0/1
GCGAGATACTCACTAAGACCACTGTGGACCATATGGCCAT
+HWI-EAS443:3:79:837:1663#0/1
R_¥L_R¥U`b^]bb``¥¥b`aaZ_QR]bbbUbbaa^^b`^
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+HWI-EAS443:3:79:905:373#0/1
`Zaaa¥MT_``X__``_`X_`^__`a]XY_]SYY_
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+HWI-EAS443:3:79:908:1516#0/1
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_`b`ab^`aabbbbbbabb`a`^bbbbbbbbbbbbbYbaba
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aa^`_`a`[aaaXa`¥^`UYU`aZ]^`]``X]__]
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+HWI-EAS443:3:79:934:622#0/1
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ab`aaaa_aaa_a_a__aaa^_aa`````a^____]a]
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aa_a_b`aa`a[^`[_aaa_[__^X`_]_Y^XUU_X_P
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+HWI-EAS443:3:7:111:206#0/1
_aa`aaaab]baaa`aaaaa__aaa¥_a[^___`X_VV_
@HWI-EAS443:3:7:1134:166#0/1
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+HWI-EAS443:3:7:1134:166#0/1
_LRRSJ]ZZ¥LXVP]Z[[NX`XQZVR^ZUMUVNQST]^BB
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+HWI-EAS443:3:7:114:901#0/1
bb¥]aS^^abaaZ_baaa`a[][_`_b```_`_`_a`_`
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a]a]b^`Za`_aaaa`_`[X]RaPH^aa`aYaPZW_Z__]
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+HWI-EAS443:3:7:1224:1492#0/1
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+HWI-EAS443:3:7:1243:1164#0/1
a`aa^aaaab`aaa_[a`_]UaUYaU`]]`[UU^Z^X]^S
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+HWI-EAS443:3:7:1268:822#0/1
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_`^JZ¥aabb¥W_0[_aT[bb`a_`_`ababaXaYEUa____
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+HWI-EAS443:3:7:1373:381#0/1
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+HWI-EAS443:3:7:1413:111#0/1
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+HWI-EAS443:3:7:1416:679#0/1
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+HWI-EAS443:3:7:1428:1555#0/1
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+HWI-EAS443:3:7:1502:1044#0/1
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Z^`bb]baab`baba¥¥`a`_aYY¥`aa`¥a`_`TIUa]
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+HWI-EAS443:3:7:1509:1248#0/1
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+HWI-EAS443:3:7:1512:1027#0/1
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a`b`_`T^aaaaa`]aR__¥a_¥]ZW`^¥`_P¥]M¥^¥¥¥
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+HWI-EAS443:3:7:1735:609#0/1
aa`_YK`a[aaaa__^_a_`_^Z^_S¥a^X`^Z^Z_ZXa
@HWI-EAS443:3:7:193:728#0/1
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+HWI-EAS443:3:7:193:728#0/1
S_b`_`abbb]bbbZU_[`b¥`aa]_`a`aaa]aa^aaa`_
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+HWI-EAS443:3:7:218:742#0/1
ab`_a`Va_VaZ]^`^]b`a`Z`aXZY^a^aa_a`_^R]_
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+HWI-EAS443:3:7:262:563#0/1
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aa_]``aa`aaaa`a`_Uaa¥^`[_aV¥^^W_XT¥¥^W
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+HWI-EAS443:3:7:373:1319#0/1
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@HWI-EAS443:3:7:378:1405#0/1
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+HWI-EAS443:3:7:378:1405#0/1
`]U`_]`aaaa`^aX¥`L]_a`X_aXZZ^]]_X[_
@HWI-EAS443:3:7:383:492#0/1
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+HWI-EAS443:3:7:383:492#0/1
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+HWI-EAS443:3:7:411:131#0/1
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+HWI-EAS443:3:7:432:586#0/1
a_aa_aaaa`aa_a__aa]_a`^`¥____`¥__W_a`[_W
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+HWI-EAS443:3:7:441:990#0/1
aa`WPZOZ_`aaW^R]RTS[KKMPNYJYGXZ]TORU`Q¥B
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+HWI-EAS443:3:7:46:1333#0/1
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@HWI-EAS443:3:7:472:1788#0/1
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+HWI-EAS443:3:7:472:1788#0/1
`aaaa_[[aa_[U_aaaa`aaUR]_aaX^_]X]__UUZ]^`
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+HWI-EAS443:3:7:482:604#0/1
SZ¥TXI__¥[baabaaaZ`P__FTRa``ZaX`_a`____`Y
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+HWI-EAS443:3:7:484:455#0/1
aa]a^]aaaab`a`U_`aabXS__a_¥`]^`^UZ]^`a]_

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+HWI-EAS443:3:7:557:480#0/1
abba`abaab_a`aaaSa_aa_aa¥_^__a]` ``YX_^__
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+HWI-EAS443:3:7:584:799#0/1
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@HWI-EAS443:3:7:593:926#0/1
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+HWI-EAS443:3:7:593:926#0/1
N]__ab` `¥`ab`Wa`¥¥¥a¥a`__¥b¥¥ab` `a`aT`
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+HWI-EAS443:3:7:601:1237#0/1
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+HWI-EAS443:3:7:621:815#0/1
^Ra` [JYPUZH__ [NXVRVU¥PQWUUYUULRRRURUBBB
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@HWI-EAS443:3:7:734:924#0/1
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+HWI-EAS443:3:7:734:924#0/1
abb`]b_aaab`bba¥_aa`aaa]`_^`a¥`a__V_¥^`_
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+HWI-EAS443:3:7:744:824#0/1
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[^`^Q_ [[[¥` __S]_ [__ `UZ_ [^ [` [__ [QW]VWWW []P
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+HWI-EAS443:3:7:83:403#0/1
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Sa¥X_Z`__aWZ¥a¥a`bb`Xaba^[a__¥`bab_` `ab^
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+HWI-EAS443:3:7:931:106#0/1
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+HWI-EAS443:3:7:937:1805#0/1
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+HWI-EAS443:3:7:939:1850#0/1
aa]]b^¥^Q^baaaaa]a` []¥Z [` J ` ` ^U` G` YU` Z__
@HWI-EAS443:3:7:966:1804#0/1
AAAGAAGTGGAGATCTAATGTCGCAGTCCCGCACTCGCG
+HWI-EAS443:3:7:966:1804#0/1
aaaa_a` ` _a`aSaTT^a` `a_____Y`]TT^_TWTW]¥Y_

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+HWI-EAS443:3:7:987:970#0/1
V`b`baabb_bbbbbbabab[bbbabbabbbbbbbbbbb
@HWI-EAS443:3:80:1000:785#0/1
CTCATTGCCATCATCCACTTCATTCTGAGTGCGGGTTCT
+HWI-EAS443:3:80:1000:785#0/1
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@HWI-EAS443:3:80:1029:434#0/1
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+HWI-EAS443:3:80:1029:434#0/1
aZY]aa`a_aaa]a^a___a_a`a`_`^W¥`¥^_`¥_`^
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+HWI-EAS443:3:80:1038:1578#0/1
aaaaaab__abaa`aaaaaaa_V]_a_aaa__a_aa__`_
@HWI-EAS443:3:80:103:778#0/1
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+HWI-EAS443:3:80:103:778#0/1
a_VWNXXMP¥HWHV]]S)`aV_a`_a`QH^N]VYYS LX
@HWI-EAS443:3:80:1044:1432#0/1
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+HWI-EAS443:3:80:1044:1432#0/1
Y¥W¥`]abb_VRO`WF]^aRR¥aV][OYVXRWS]YW[___^
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+HWI-EAS443:3:80:107:1323#0/1
ab_bbbab``bbbab^Y^baaab`ab_a_aaa^aba^aS`
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GTCGGCAGTATTCCGATCATTCCCATCACATTGTCGATG
+HWI-EAS443:3:80:1104:403#0/1
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+HWI-EAS443:3:80:111:293#0/1
SW_^Y^aa`a^aa]a]_aa__`a]_]_^T¥[aZXU_YN
@HWI-EAS443:3:80:1188:824#0/1
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+HWI-EAS443:3:80:1188:824#0/1
aab_[aaabaaa_a¥aWTXGQb_a^_W]]ZYOW^¥JV`]^
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+HWI-EAS443:3:80:1189:1335#0/1
abaab`X^_abbaV`_ba]_aY`XZGYZMK[U]aVPTTY
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+HWI-EAS443:3:80:1245:1090#0/1
aaa`aaaa`_`aa^aba`__aa`_____`a`a]Y_¥`]_
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a`baaa__aba_aaaa`_^a_a___^`¥T]`^U_^UX^
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+HWI-EAS443:3:80:1282:698#0/1
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+HWI-EAS443:3:80:1298:1573#0/1
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+HWI-EAS443:3:80:1402:121#0/1
abbaa_a^ab`aa_]aa_aa]^ZHY^_YTKWY^X]BBB
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+HWI-EAS443:3:80:1415:106#0/1
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@HWI-EAS443:3:80:1459:1416#0/1
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+HWI-EAS443:3:80:1459:1416#0/1
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+HWI-EAS443:3:80:1509:1351#0/1
¥aX_YZ_^aaa`Y_0_a^a`_]T¥a_^V^ZQY_RUQ[Z
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_¥]WZH]_XXQQXY]T^aa¥aaa^XYJ^a^aV¥V¥UN
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+HWI-EAS443:3:80:1597:1309#0/1
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+HWI-EAS443:3:80:1623:68#0/1
^b`F`_a¥baaba¥0¥K`[Ua`[_]^`aaXO^^a]__UW
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+HWI-EAS443:3:80:170:1908#0/1
a[aaaa`a_¥`[ZZa`aT^[_]WUZ^^_AZ^^]_`^V

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+HWI-EAS443:3:80:1740:1552#0/1
_`]b`a[aYa¥^`Xba]M]^`aa]aaaab`W^b[aa_Ia`
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AAAGAACTGAGAGATCTAATGTGCGCAGTCCCGCACTCGCG
+HWI-EAS443:3:80:1749:1347#0/1
aaaaaaababaaa````aaaa````^``[¥]¥X[R[^]X[^
@HWI-EAS443:3:80:249:1387#0/1
CTGTAATTGGGTATCTCATTGCCATCATCCACTTCATTCT
+HWI-EAS443:3:80:249:1387#0/1
a^ZU_abb`¥WJ`YX_V^aaaUVW_aY`][TVTZ[V^X
@HWI-EAS443:3:80:250:2032#0/1
TGACTCTGATGTCAGTATTCTTGCCCCACTTCATTTGGG
+HWI-EAS443:3:80:250:2032#0/1
¥bbba¥aWaJXabYQba^aaa_ab_^`S¥_`aa^_VMFP
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+HWI-EAS443:3:80:259:1218#0/1
Z^Zaa`a[aaa_`bb¥[_`aaaba^a````aaa_W_Y]
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+HWI-EAS443:3:80:275:681#0/1
a_I^^ZVU_[TZZZ__W^VSV[NVZTVXLLVHRYVYBBBB
@HWI-EAS443:3:80:290:491#0/1
ATTCAATTCAGTTCTGGAAAAGCACTTTTGCATCTTT
+HWI-EAS443:3:80:290:491#0/1
a^aaVaa`aaaa_a_`_`^¥0^aaa_````^^`_`____
@HWI-EAS443:3:80:308:1295#0/1
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+HWI-EAS443:3:80:308:1295#0/1
abaaaa``aaaWG_^V_a`a`a`a_`^a_XP]^S_][^Y
@HWI-EAS443:3:80:326:30#0/1
CAGCACACAGATTGGAGGAGTAAGGATGGTGGACATCCTT
+HWI-EAS443:3:80:326:30#0/1
abbaa_aa`baaaa````_`a_a_`a_`^a`S_^ZZ[^Y[T]
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+HWI-EAS443:3:80:337:1086#0/1
¥`Taa¥b`abaa`ab`aa_¥aba`aa^aaa`_`a````_]
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GCTGTAATTGGGTATCTCATTGCCATCATCCACTTCATTC
+HWI-EAS443:3:80:355:594#0/1
aZ_aX_]VX_a_R[____a^^[^^^_]^[^ZZV_^][U^`X^
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CAGGTGCATTGACTGAAGATCCAGATGAAGGCACATCTGG
+HWI-EAS443:3:80:366:223#0/1
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+HWI-EAS443:3:80:396:1765#0/1
`]`bbaa`_````b```aaaa__aa¥aa`a`¥aaZa_¥]
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+HWI-EAS443:3:80:403:509#0/1
a`X^^¥_aa_aaaaa_`_[]^`a`_aa_a`aaaa_`^a
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+HWI-EAS443:3:80:438:1807#0/1
a^Za_aaa`]aa`aa_a_Xa`baa`^Xaaa^`aaa`aYWZ
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+HWI-EAS443:3:80:469:1328#0/1
`a`aababbbbbbaU`bbbbba`_a_abab`aaa¥^aaa
@HWI-EAS443:3:80:491:1369#0/1
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+HWI-EAS443:3:80:491:1369#0/1
a^_`]`a`a`]_^W¥`YU__^a`_`_^`RY_^`__`^__W
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+HWI-EAS443:3:80:518:1500#0/1
¥Z_`W_]_]_bbbb_RUYYL¥S_]Za`¥`]Y``_bXI_QP
@HWI-EAS443:3:80:553:1850#0/1
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+HWI-EAS443:3:80:553:1850#0/1
`_^a¥Y_WRb`_ab__babaab`b]^¥]¥ab]T`]Z`]`
@HWI-EAS443:3:80:557:21#0/1
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`bb`ab^a^aa^Zb`¥`]a[¥UZLXT_b]FQTRR]SUV]
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+HWI-EAS443:3:80:561:857#0/1
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@HWI-EAS443:3:80:562:640#0/1
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+HWI-EAS443:3:80:562:640#0/1
a_V¥a``_aa`a`_`[¥¥a_a¥_^[]^_Z[¥T^a``]]TT
@HWI-EAS443:3:80:601:231#0/1
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+HWI-EAS443:3:80:601:231#0/1
abbbabaababa_a`aa_a_aaaa_Z[a^Z]_aa_a____
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TTCATACCCTTCATGTACTCTTATTTTCAGTGTGGAGG
+HWI-EAS443:3:80:626:1885#0/1
aaaaaaaa`aaaaaaaa[aaa`aaaaaaaa`_YT[^aa`_`aM

@HWI-EAS443:3:80:633:911#0/1
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+HWI-EAS443:3:80:633:911#0/1
S_a]`Q`S__XX¥_UY]`^]WQWX]W_UWF[aaaaXVLP
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+HWI-EAS443:3:80:666:1780#0/1
`^aba`b`^aa`X^^_b`a_¥_^aadW^aYaa^^`_aX`
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GTCCCCTTTTCGTTTTATTACCAACTACTCGTCCCCTTGC
+HWI-EAS443:3:80:68:91#0/1
a^a`bYV__[a_^_SY]_`W`_¥V[Y]TUWPSWQVRVXY
@HWI-EAS443:3:80:695:19#0/1
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+HWI-EAS443:3:80:695:19#0/1
a_a__b`aa^a`^`a`^`a_V^W^_Y_WWV]Y^^[P
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+HWI-EAS443:3:80:729:649#0/1
a)`a`Yabaaa`_a]aaaa`b`aZK[¥a__[[aaaaa
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+HWI-EAS443:3:80:72:1278#0/1
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+HWI-EAS443:3:80:784:521#0/1
a`_bab`b`a¥`Y`a`a^a`¥a`b]Z]aaaa¥_a
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+HWI-EAS443:3:80:790:1341#0/1
_baab¥b_Z_a`]`aaaaaaaa^a`Y¥_a^_Xa_¥X`UUT
@HWI-EAS443:3:80:804:1563#0/1
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+HWI-EAS443:3:80:804:1563#0/1
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+HWI-EAS443:3:80:806:371#0/1
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+HWI-EAS443:3:80:846:739#0/1
__`_ZUaY]_aZZHV_Y]V^^V]aWXZYTXTO[QU[[[S_
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+HWI-EAS443:3:80:861:2045#0/1
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a`b[aa^_a[[_b]ab_a`aba^^_[X]¥ZSW¥¥]^GYPZ
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aaaaaa`ab_aaa`aaaa_a_aaa_a^_a^`a]_Y^]`^]
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+HWI-EAS443:3:80:921:1110#0/1
abb`bW¥¥NR_`aaaa]_bba`aabQX^`ba__aa_]Y[V
@HWI-EAS443:3:80:923:1281#0/1
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+HWI-EAS443:3:80:923:1281#0/1
ab_aaaaaaaaa_``aaa_aaaa_a`aaaa`]`__^`]-
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+HWI-EAS443:3:80:928:1090#0/1
__aW^aZRW¥_`^Q[___X^HY¥]TLXTX[SNV[UUU^V_
@HWI-EAS443:3:80:961:969#0/1
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+HWI-EAS443:3:80:961:969#0/1
a_baa_aaVaaXSa_____a]`[a__^^`a]_____^]`_`_
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+HWI-EAS443:3:81:102:1122#0/1
aa``Z¥`_QX_[Y_^]HYa`[`a^_V^V[ZUXZX^XT[WZ
@HWI-EAS443:3:81:1053:1667#0/1
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+HWI-EAS443:3:81:1053:1667#0/1
a`^a^^`a^`¥VYTOSX]`a]a`^M[a`X`[`]V¥`^Za]
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ATCACTCGGTCTGATCCAGCATCGTTTGTGGTCCAGA
+HWI-EAS443:3:81:1099:1685#0/1
Z¥`b`UZT^T^U_]_W_^a_]_aa^aaa``_`[[^UXTWP
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+HWI-EAS443:3:81:1129:1092#0/1
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+HWI-EAS443:3:81:1142:1508#0/1
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+HWI-EAS443:3:81:1149:1681#0/1
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+HWI-EAS443:3:81:1161:1089#0/1
ab`T¥^SaaaR`ab`aP[aa`¥``L^`_a`a`a`]^a_]`

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]`_]U]Y_aaa]_Q_a`aa]YYJS_Y_¥_]¥_`¥PNQ
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+HWI-EAS443:3:81:1163:157#0/1
a`_a¥L_bb_a¥¥Z^aababb_V^a``a`aX`aaa`_U_]
@HWI-EAS443:3:81:1174:1312#0/1
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+HWI-EAS443:3:81:1174:1312#0/1
```a`V^aYa\_a\_P\_a\_Y]^\_Z^X^^`\_]^^\_\_ZW\_U^S  
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+HWI-EAS443:3:81:1181:695#0/1  
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+HWI-EAS443:3:81:1193:1135#0/1  
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+HWI-EAS443:3:81:1205:1967#0/1  
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@HWI-EAS443:3:81:1243:1139#0/1  
TGTGGACCATATGGCCATAATCAAAAAGTACACATCAGGA  
+HWI-EAS443:3:81:1243:1139#0/1  
a]]\_\_`]`[[a^\_^\_\_a\_]\_]Y[`\_\_^W\_]`^S\_]W^UZ  
@HWI-EAS443:3:81:1258:584#0/1  
GGATGATGGCAATGAGATACCCAATTACAGCAGACAAGAG  
+HWI-EAS443:3:81:1258:584#0/1  
`b`aaaaba[ `aabaa`abaa`aaaab^ab\_abaaaaaaa  
@HWI-EAS443:3:81:125:235#0/1  
GTCCCCTTTTTCATTACCAACTACGTCCCCTTGCCCAA  
+HWI-EAS443:3:81:125:235#0/1  
a^a`aa^^`a`a^`\_`\_]`\_\_a^`]^[^\_X]]^^YY]X  
@HWI-EAS443:3:81:1261:442#0/1  
GGCCATATCTTGTCTTCTTTGCCAAAATGAGAAATCC  
+HWI-EAS443:3:81:1261:442#0/1  
a¥PXQaT]G]^`\_]UMa^LY`\_\_PP]]`¥QXP^Z`^ZUQG  
@HWI-EAS443:3:81:1274:1491#0/1  
CACTCGGAGATACTACTAAGACTGTGGACCATATG

+HWI-EAS443:3:81:1274:1491#0/1  
aUMYO[]VaYP¥N\_a]^¥\_XHRMW¥^XFD\_¥^V` [R]OW  
@HWI-EAS443:3:81:128:204#0/1  
TGCTGTAATTGGGTATCTCATTGCCATCATCCACTTCATT  
+HWI-EAS443:3:81:128:204#0/1  
aaaaa\_`aaaaa`]^`^¥[¥\_\_[^V^\_Y[\_]]TW\_^U[X  
@HWI-EAS443:3:81:1325:1738#0/1  
CACATCTGGGTGGAGTCTGCTGTCCTGAGAGGATTTCTC  
+HWI-EAS443:3:81:1325:1738#0/1  
aa[^\_Z\_¥aa]XaXaaaaa`^`a`^U]]^aa\_a^a¥[Z\_T  
@HWI-EAS443:3:81:1440:469#0/1  
AGAGAATAAAAGAACTGAGAGATCTAATGTCGCAGTCCCG  
+HWI-EAS443:3:81:1440:469#0/1  
abababbbbaabababbbabbba^bb^bba[\_abb`¥^^`  
@HWI-EAS443:3:81:1474:1230#0/1  
GGAAAAGCACTTTTGCATCTTTTTGGAAATGCCTCAAGAG  
+HWI-EAS443:3:81:1474:1230#0/1  
^Xa]aa¥]^\_bb``¥^`a^aaaa¥a``\_]VR^]\_` [ZX\_  
@HWI-EAS443:3:81:1572:1386#0/1  
GTACGCCACCATCAAGGGAGCAATTTTACAATCCTGGAGC  
+HWI-EAS443:3:81:1572:1386#0/1  
`¥``aaa` [W]^\_Y]\_XVYa¥ZL]`a\_NUTS\_QJXU[W`M  
@HWI-EAS443:3:81:1576:643#0/1  
CCCCTTTTCGTTTTATTACCAACTACGTCCCCTTGCCC  
+HWI-EAS443:3:81:1576:643#0/1  
a\_Ybabba`aaab`abba`¥ba\_aaaa\_\_^\_X\_¥^¥aLTQ  
@HWI-EAS443:3:81:1584:450#0/1  
AAAAGAAGCTGAGAGATCTAATGTCGCAGTCCCGCACTCGC  
+HWI-EAS443:3:81:1584:450#0/1  
Wbbbb]``b]aa`bababbabb`\_a^aaa\_\_\_\_`\_`^a[¥W  
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AAAAGAAGCTGAGAGATCTAATGTCGCAGTCCCGCACTCGC  
+HWI-EAS443:3:81:1652:1405#0/1  
aa`^]aabba^Z^]^b`baabba[a\_[aONVR¥^]S\_Y]¥  
@HWI-EAS443:3:81:167:1952#0/1  
GGGGACGTAGTGTGGTAATGAAACGAAAACGGGACTCTA  
+HWI-EAS443:3:81:167:1952#0/1  
a\_V[]aZV^`[^X]]YQ[] [Y]]\_¥X[`\_ZVRVS[\_WZSY  
@HWI-EAS443:3:81:1680:1396#0/1  
CTGTTGCCTTAGGGACAAGAGACTGAAATGGTTCAAATT  
+HWI-EAS443:3:81:1680:1396#0/1  
abb`Sabb`bbb``ab^^^ba\_aabaaabbbaba\_a`aa  
@HWI-EAS443:3:81:1725:1374#0/1  
GTCCCCTTTTCGTTTTATTACCAACTACGTCCCCTTGC  
+HWI-EAS443:3:81:1725:1374#0/1  
a`\_a]baaab\_a\_aa`aa`a\_^a`^a\_a`^\_\_^X\_\_`]Y]  
@HWI-EAS443:3:81:1726:520#0/1  
CTGCTGTCCTGAGAGATTTCTCATTTTGGGCAAAGAAGA  
+HWI-EAS443:3:81:1726:520#0/1  
HQ¥¥¥\_\_X\_W\_N[[¥¥Z[^]V^a`b\_Va¥\_XT¥bbZK^bZ

@HWI-EAS443:3:81:198:1836#0/1  
AGAGAATAAAAGAACTGAGAGATCTAATGTCGCAGTCCCG  
+HWI-EAS443:3:81:198:1836#0/1  
abbaaababaab^\_`a]Z`b`\_`aaba\_aYa`a\_[VN\_`Z  
@HWI-EAS443:3:81:201:2023#0/1  
GAATAAAAGAACTGAGAGATCTAATGTCGCAGTCCCGCAC  
+HWI-EAS443:3:81:201:2023#0/1  
]H]aab]a¥]`a\_a¥U\_]¥]\_a[[`aW\_G`\_\_Z]\_\_ZONN  
@HWI-EAS443:3:81:228:408#0/1  
CAATCCCCAGTTCTGGAAAAGCACTTTTGCATCTTTTGTG  
+HWI-EAS443:3:81:228:408#0/1  
aab\_babbaab\_a`b\_aaba^^a\_\_a\_baaaa`aaa^aaa  
@HWI-EAS443:3:81:22:1497#0/1  
ATGGCAATGAGATACCCAATTACAGCAGACAAGAGAATAA  
+HWI-EAS443:3:81:22:1497#0/1  
^a\_ab\_\_aaa`X`aba`]Ya`\_a^^a`Z^a``[\_`\_\_a\_  
@HWI-EAS443:3:81:271:290#0/1  
ATCTAATGTCGCAGTCCCGCACTCGCGAGATACTCACTAA  
+HWI-EAS443:3:81:271:290#0/1  
\_``XZZ`¥XYZ^ZSZX[^NVPPTZ[U¥KPTPST[URWR  
@HWI-EAS443:3:81:329:52#0/1  
ATTCTCCAGTATTCAATTACAACAAGGCAACCAAACGACT  
+HWI-EAS443:3:81:329:52#0/1  
a\_baaa`bb\_abb^`a`ab`a¥``aaa`a`\_\_\_\_`][a]]\_  
@HWI-EAS443:3:81:374:1772#0/1  
GTGAGTATTGACCGATTTTTAAGGGTTAGAGATCAAAGAG  
+HWI-EAS443:3:81:374:1772#0/1  
W`]``abbbaabb¥^abbbbbbbaa\_aabb`^`abaaaaa  
@HWI-EAS443:3:81:375:397#0/1  
TGTCTGCTGTAATTGGGTATCTCATTGCCATCATCCACTT  
+HWI-EAS443:3:81:375:397#0/1  
ab^`b`^b^[aaa\_\_Z`^^]\_a`a`Y`aa`^`¥^`\_  
@HWI-EAS443:3:81:397:292#0/1  
TCCGATCATTCCCATCACATTGTCGATGGATTCAATTCCC  
+HWI-EAS443:3:81:397:292#0/1  
aaa\_a\_aa`a`a```a^^`a`¥]\_\_][[Z^ZZRXYWXS  
@HWI-EAS443:3:81:405:1046#0/1  
ACAGAATCCAAGTGAAGCAAGCCGTAGACATATGCAAG  
+HWI-EAS443:3:81:405:1046#0/1  
ab`ab[aaba[^aa^a^Jaa`b`baab]aa\_aaa\_^a`[\_`\_  
@HWI-EAS443:3:81:449:1579#0/1  
AAAGAACTGAGAGATCTAATGTCGCAGTCCCGCACTCGCG  
+HWI-EAS443:3:81:449:1579#0/1  
aaaaZa`aaa\_b``\_b`aaaaY`]¥¥[W\_\_aZ^W\_Z`Z\_^  
@HWI-EAS443:3:81:455:906#0/1  
CCGCACTCAGAATGAAGTGGATGATGGCAATGAGATACCC  
+HWI-EAS443:3:81:455:906#0/1  
aaaa\_]\_a\_a\_\_`\_SL¥^`\_]Y\_TX`a\_NRV^VV]V\_]U  
@HWI-EAS443:3:81:486:1052#0/1  
CTGCTGTAATTGGGTATCTCATTGCCATCATCCACTTCAT

+HWI-EAS443:3:81:486:1052#0/1  
a`]^bb\_`aabaaa[aaba\_]aa\_\_aaaaa`````a\_\_\_```  
@HWI-EAS443:3:81:500:764#0/1  
ATGTCAGTATTCTTGCCCCACTTCATTTGGGAAAACAAC  
+HWI-EAS443:3:81:500:764#0/1  
aaa\_aaa[``\_a\_`]¥^\_a`]T]``\_Y^^`\_\_X][``\_¥¥^W  
@HWI-EAS443:3:81:507:1638#0/1  
AGGATGGTGGACATCCTTAGACAGAATCCAACGAGGAAC  
+HWI-EAS443:3:81:507:1638#0/1  
V]\_aa¥YQT¥\_``Z^]X\_\_T\_a`WQP]a^[aYWL]YQ[^X  
@HWI-EAS443:3:81:513:1004#0/1  
AGGGGACGTAGTGTGGTAATGAAACGAAAACGGGACTCT  
+HWI-EAS443:3:81:513:1004#0/1  
````\_babb\_]\_GZ\_ab^V]]^U]^JWUWV^W[``SNV\_[  
@HWI-EAS443:3:81:533:588#0/1
TGGCAATGAGATACCCAATTACAGCAGACAAGAGAATAAT
+HWI-EAS443:3:81:533:588#0/1
[aaaa¥abbaaaabb`¥`bbbba`^_b`abababaabaaa
@HWI-EAS443:3:81:551:516#0/1
GTTTTCGTTTCATTACCAACTACGTCCCCTTGCCCAAT
+HWI-EAS443:3:81:551:516#0/1
ZFSYNQ_H¥VYX`_[``WZW`^W^W]VRWWYSNLPNURPP
@HWI-EAS443:3:81:568:1734#0/1
GTCGCAGTCCCGCACTCGCGAGATACTCACTAAGACCACT
+HWI-EAS443:3:81:568:1734#0/1
aY`aab]Sb_aX]¥b`b`aa_PXZ`^`Y````aaM`^¥]`U
@HWI-EAS443:3:81:569:1135#0/1
ATCTAATGTCGCAGTCCCGCACTCGCGAGATACTCACTAA
+HWI-EAS443:3:81:569:1135#0/1
a]_[^T^a¥a¥^Y^TX`aX¥U¥W`T`^ZVDL[¥Z^ZR_V[
@HWI-EAS443:3:81:591:697#0/1
TGGTATTCTCACAAGAGGATTGCATGATCAAGGCAGTTAG
+HWI-EAS443:3:81:591:697#0/1
aaa¥a`aa`a¥a`^a_aa_``_``````__^^^_^_VY]]
@HWI-EAS443:3:81:599:1249#0/1
ACTTGATTTCTGAAGTGGACAGGGCCGAAGGTACCATGTT
+HWI-EAS443:3:81:599:1249#0/1
a```__Z[R`_]RQNOW^^^_V^L[RR]VNTZH]]^VPVXV
@HWI-EAS443:3:81:60:559#0/1
AAAGAAGTGAAGATCTAATGTCGCAGTCCCGCACTCGCG
+HWI-EAS443:3:81:60:559#0/1
aaaaaaaa`aa[Xa__`aa_`aX```_`Y_]_^_U^¥]^^^
@HWI-EAS443:3:81:612:891#0/1
ACCAGAACAGAGTAGGATGCAATTTTCCTCATTGACTGTG
+HWI-EAS443:3:81:612:891#0/1
[aaba`_aa_V^^a`^¥`_a`^aa`_]__W]_a_Z^aWY
@HWI-EAS443:3:81:617:1462#0/1
GTCCCCTTTTCGTTTCATTACCAACTACGTCCCCTTG
+HWI-EAS443:3:81:617:1462#0/1
a[aaab```aaaa_`aa¥a`aaaaaaa__a_Xa```a_U__

@HWI-EAS443:3:81:621:617#0/1
TGCAGGTGCATTGACTGAAGATCCAGATGAAGGCACATCT
+HWI-EAS443:3:81:621:617#0/1
abaa` `Sb`a`]]a]aaaba^`a^a__a^a^]¥]]¥aa]a
@HWI-EAS443:3:81:645:1370#0/1
GGCCATGGTATTCTCACAAGAGGATTGCATGATCAAGGCA
+HWI-EAS443:3:81:645:1370#0/1
`bbbbbb` `babaabbbbbaaa__a` `bbba_abab`aa
@HWI-EAS443:3:81:648:1815#0/1
AAAGAAGTGAAGATCTAATGTCGCAGTCCCGCACTCGCG
+HWI-EAS443:3:81:648:1815#0/1
[a`RU]_] [_aa`b`bab`a^^a`aaa_aab_b_a]^Z`_
@HWI-EAS443:3:81:658:247#0/1
CTCTTGTCTGCTGTAATTGGGTATCTCATTGCCATCATCC
+HWI-EAS443:3:81:658:247#0/1
abbabb`abbb`b^aabbbbb]baaa`aaaaaaaa_a____
@HWI-EAS443:3:81:689:120#0/1
TGGCCCAACAACAAGTACAGTTCATTACCCTAAGGTATAT
+HWI-EAS443:3:81:689:120#0/1
aaaaabbbabbabb`baab_baabaaa`_a`baY_a`a
@HWI-EAS443:3:81:693:362#0/1
CGGAGATGTCGCTGAGAGGGATAAGAGTCAGCAAAATGGG
+HWI-EAS443:3:81:693:362#0/1
a`_Lb[aa[_bVZb`]^a[_`a`¥`N_a`N]^V^_AY`
@HWI-EAS443:3:81:699:1299#0/1
CCCGTTTTCGTTTTATTACCAACTACGTCCCCTTGCCC
+HWI-EAS443:3:81:699:1299#0/1
a`^]__a`aaX`_a_a`_`a]_a^__]]^]_WW[]_]`
@HWI-EAS443:3:81:711:1370#0/1
GTGGATGATGGCAATGAGATACCCAATTACAGCAGACAAG
+HWI-EAS443:3:81:711:1370#0/1
[]`]V[_X`a`_`a`a_]`abaaaa]]Z[][_`¥^V[YZ
@HWI-EAS443:3:81:748:1477#0/1
ATCAAACCTTTGGTCAACATCATCTTTCTCACTTCTCCTC
+HWI-EAS443:3:81:748:1477#0/1
¥^_L^ZZ^¥]YX[X_Z^^^][`aaZZSZ^`X`a]`_` `UP
@HWI-EAS443:3:81:753:240#0/1
AAATGAAGTGGGGCAAGAATACTGACATCAGAGTCACAG
+HWI-EAS443:3:81:753:240#0/1
`^bbbabbbab`aaaabbaaabbbaaa` `aaaa^^`aa`aa
@HWI-EAS443:3:81:762:1691#0/1
AAGAAGTGAAGATCTAATGTCGCAGTCCCGCACTCGCGA
+HWI-EAS443:3:81:762:1691#0/1
QZ_ba^_]__b_Sa__^`a`^b¥ZaaU` `a__OZ` `_^__
@HWI-EAS443:3:81:79:682#0/1
TGCTAATTGGGCAAGGGGACGTAGTGTGGTAATGAAACG
+HWI-EAS443:3:81:79:682#0/1
aaa`aaa`aa_a`b][a]_a[[a[`^`a`R^_^XLY^VX
@HWI-EAS443:3:81:809:1886#0/1
GAGAATAGCTGTTGCTCTTCTCCCAACCATTGTGAATTCT

+HWI-EAS443:3:81:809:1886#0/1
`babaabaa_b_bababa`X¥babaa_a^a`^^a_Z``]`
@HWI-EAS443:3:81:821:1543#0/1
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+HWI-EAS443:3:81:821:1543#0/1
`a`a_aaaa_]a`aaaaaaa`aW_S¥a[Y_a__`T`Y^VW
@HWI-EAS443:3:81:841:100#0/1
ATCTAATGTCGCAGTCCCCGACTCGCGAGATACTCACTAA
+HWI-EAS443:3:81:841:100#0/1
ab^]ZaabT`a^V¥K]^a_WPZ`¥¥P¥NXRUU[UQZU[[U
@HWI-EAS443:3:81:845:1657#0/1
TGATTCCAGAGAGGAATGAACAAGGACAAACCCTCTGGAG
+HWI-EAS443:3:81:845:1657#0/1
_Z¥SYaU_X]aW¥_]Z_]a_aa`W`aa`^¥ZZ`ZX][
@HWI-EAS443:3:81:858:705#0/1
AGCTCATCTTTTCAGTTTTGGTGGGTTCACTTTCAAAGGA
+HWI-EAS443:3:81:858:705#0/1
aabaabbabbbbbb_a`_aa_aaa__`a[bbaa[S`]^a^
@HWI-EAS443:3:81:868:919#0/1
AAAAGAAGTCTGAGAGATCTAATGTCGCAGTCCCCGACTCGC
+HWI-EAS443:3:81:868:919#0/1
aa[b^UY_a`aa`a`ababb_a]]¥_]_ab``[W¥__^
@HWI-EAS443:3:81:875:1115#0/1
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+HWI-EAS443:3:81:875:1115#0/1
^PPRVZ]`W[YO[S`_XZZTVN_^]URNT^VFQPVR[ZVB
@HWI-EAS443:3:81:883:1474#0/1
ATGCAATTTTCCTCATTGACTGTGAATGTGAGAGGATCAG
+HWI-EAS443:3:81:883:1474#0/1
aaa`aa`aa_a`_`aa`_`_`_W_Z`¥_SWSUYWYWZU^V
@HWI-EAS443:3:81:92:1561#0/1
CACCATCAAGGGAGCAATTTTACAATCCTGGAGCTCTTCT
+HWI-EAS443:3:81:92:1561#0/1
aaab`__^Sa_]a`]]Q_a¥_aaa¥`a^]^_UWX]G]]]]
@HWI-EAS443:3:81:953:899#0/1
TCCGATCATTCCCATCACATTGTCGATGGATTCAATCCC
+HWI-EAS443:3:81:953:899#0/1
aab`aaabbabaaaab`_____a]_XYP^[SV¥]¥[¥_]Y]
@HWI-EAS443:3:81:972:1234#0/1
CTAATGTGCTAATTGGGCAAGGGGACGTAGTGTGGTAAT
+HWI-EAS443:3:81:972:1234#0/1
abaabbababaa`bbbbbbabbb`aabaab`b^VaaYaaa
@HWI-EAS443:3:81:974:1407#0/1
TGCCCGTTAGCACTTCTTCTTCTTCTTGGACTGATGATCC
+HWI-EAS443:3:81:974:1407#0/1
ab]b^^aa`aa^Wab`a_`b^_bbaaaba`b^ba`_¥`WS
@HWI-EAS443:3:82:1004:733#0/1
GGGTGGAGTCTGCTGTCTGAGAGGATTTCTCATTTTGGG
+HWI-EAS443:3:82:1004:733#0/1
a]aT_]R_T_aa``[[_``_VaU``S^_XQ¥U^aa^_]`W

@HWI-EAS443:3:82:1032:562#0/1
GATGTGCCTTCATCTGGATCTTCAGTCAATGCACCTGCAT
+HWI-EAS443:3:82:1032:562#0/1
^W`_L_^aaWa`b^0Z_] ^S]aa^`Q¥aaaa`_N¥NWF¥]
@HWI-EAS443:3:82:1067:1599#0/1
AAGGCACATCTGGGGTGGAGTCTGCTGTCCTGAGAGGATT
+HWI-EAS443:3:82:1067:1599#0/1
a¥[Za`a`Z]^_KXXW¥U`aRaZ^X¥VN¥`X^^[]ZZa_`
@HWI-EAS443:3:82:1087:2038#0/1
GAGAATAAAAGAACTGAGAGATCTAATGTCGCAGTCCCGC
+HWI-EAS443:3:82:1087:2038#0/1
ababbbbbba`baabbaa`b`aaaa`[^`ab`a___`
@HWI-EAS443:3:82:1091:151#0/1
CTTGTCTGCTGTAATTGGGTATCTCATTGCCATCATCCAC
+HWI-EAS443:3:82:1091:151#0/1
a``aa_bbbb]¥Xaba]XZZabb_Zba_¥W`baa__TN¥N
@HWI-EAS443:3:82:1117:682#0/1
GTGGAGTCTGCTGTCCTGAGAGATTTCTCATTTTGGGCA
+HWI-EAS443:3:82:1117:682#0/1
a`a_Za`_aa_aa___aa_] [aa¥`a`¥`^^aaa``_`__
@HWI-EAS443:3:82:1120:1319#0/1
CTTCTTTGCCAAAATGAGAAATCCTCTCAGGACAGCAGA
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`bbbbbaaaaab_bababbaabb`babaaaa`aaa_aaa
@HWI-EAS443:3:82:1154:960#0/1
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+HWI-EAS443:3:82:1154:960#0/1
]ba^]ba^ab^ba_¥Y¥aaXab^¥a]`aabaa`aaaa^a`
@HWI-EAS443:3:82:1166:296#0/1
AGAGATCTAATGTCGCAGTCCCGCACTCGCGAGATACTCA
+HWI-EAS443:3:82:1166:296#0/1
aaaaaa_aaaba__a^aa__¥a`__¥a¥_Wa_`_^]W^¥`
@HWI-EAS443:3:82:119:1441#0/1
AACAAGTACAGTTCATTACCCTAAGGTATATAAACTTAT
+HWI-EAS443:3:82:119:1441#0/1
`Z`YX`_a^VSQ[_S]aa`^R]¥¥` [XbZ]^`QX_¥PRY_
@HWI-EAS443:3:82:1222:1355#0/1
CTCCCCTTTGCTGCTGCTCCACCAGAACAGAGTAGGATGC
+HWI-EAS443:3:82:1222:1355#0/1
`abaaabbbbaab`abaa`a_aaaaaTaaaa_a_a__a_
@HWI-EAS443:3:82:1246:757#0/1
AAAAGAACTGAGAGATCTAATGTCGCAGTCCCGCACTCGC
+HWI-EAS443:3:82:1246:757#0/1
]b`b`_b_Za`a`a_X_`aab``aa[a_^`]aPQ[`Y^^
@HWI-EAS443:3:82:124:1213#0/1
GTGGATGATGGCAATGAGATACCCAATTACAGCAGACAAG
+HWI-EAS443:3:82:124:1213#0/1
]aXUFPT`Z^X_XU[a^_Y¥_]a``a`W]_``¥``X¥^
@HWI-EAS443:3:82:1271:706#0/1
CTCGCGAGATACTCACTAAGACCACTGTGGACCATATGGC

+HWI-EAS443:3:82:1271:706#0/1
Ybaa¥bb_a¥`_bab`bb_aZ`ab`bbaabbab`b¥__V
@HWI-EAS443:3:82:1272:2044#0/1
CATCATTGATGACGAATAAGTTATTGTCAACTTCTCAGTT
+HWI-EAS443:3:82:1272:2044#0/1
`^^b]W_``_RT¥Y`a¥Z¥YT_¥X]XFZ]T]¥WXZ_XUP
@HWI-EAS443:3:82:127:305#0/1
GAGAGAATAAAAGAACTGAGAGATCTAATGTCGCAGTCCC
+HWI-EAS443:3:82:127:305#0/1
`X`Pa]`X]Z]]aZR_aaaa_`[^aa^`_a^`[^Z_0_¥P
@HWI-EAS443:3:82:1323:240#0/1
AAAAGAACTGAGAGATCTAATGTCGCAGTCCCGCACTCGC
+HWI-EAS443:3:82:1323:240#0/1
aab[ab_Ubb`aaaYa_ba`abXa`_aa_]Za`N^^aR
@HWI-EAS443:3:82:1339:1760#0/1
GGAGACAATAGTACGTTCCCTCTTTGATCTCTAACCTTA
+HWI-EAS443:3:82:1339:1760#0/1
abaa`^^ba_bGa__`a_`_a_`aa___^aW`aaW¥_`a
@HWI-EAS443:3:82:1420:1342#0/1
CTGTAATTGGGTATCTCATTGCCATCATCCACTTCATTCT
+HWI-EAS443:3:82:1420:1342#0/1
]_a][ab`aab_aabb¥ba`a]_abaa[X^`[b_IabU` [
@HWI-EAS443:3:82:1533:481#0/1
CCTTGTTTTACGGACCAATTCTCTTTCTAGCATGTACGCC
+HWI-EAS443:3:82:1533:481#0/1
`a^a^`bb`abbbZ^^aab_U_bb`aabb_abb```aaa`
@HWI-EAS443:3:82:1543:21#0/1
ACCATCCTTACTCCTCCAATCTGTGTGCTGTGGCACATTT
+HWI-EAS443:3:82:1543:21#0/1
`¥U_¥Za_bbabWXaX0]abYbbaaa`[ab]b_YW[[Za`
@HWI-EAS443:3:82:1556:1514#0/1
AAAGAACTGAGAGATCTAATGTCGCAGTCCCGCACTCGCG
+HWI-EAS443:3:82:1556:1514#0/1
`bbbabab¥baaba`aabbbaa]aaaaGTaa_`¥¥][_a
@HWI-EAS443:3:82:1564:181#0/1
TAAAAGAACTGAGAGATCTAATGTCGCAGTCCCGCACTCG
+HWI-EAS443:3:82:1564:181#0/1
abbbbababbaaa``aabaab]Ya_]`Z]¥`XU`MZRS
@HWI-EAS443:3:82:1590:1316#0/1
GTCGATGGATTCAATCCCCAGTTCTGGAAAAGCACTTTT
+HWI-EAS443:3:82:1590:1316#0/1
a^G¥_bbaaab`aab__ba^`[^aa^][^_ab^`_X_^`a`
@HWI-EAS443:3:82:1690:1196#0/1
ATCTCTTGTCTTTTGGCCAAAATGAGAAATCCTCTCAG
+HWI-EAS443:3:82:1690:1196#0/1
[U^b`b`b^Za^U¥b¥__¥]bbaa^_abbbba¥b¥aRa_
@HWI-EAS443:3:82:1696:1467#0/1
ACGACTTACAGTTCTTGAAAGGATGCAGGTGCATTGACT
+HWI-EAS443:3:82:1696:1467#0/1
a`baabb^aaa^Y_bba`_`a`aaa]``_V`_````]L¥

@HWI-EAS443:3:82:1737:768#0/1
AAAGAACTGAGAGATCTAATGTCGCAGTCCCGCACTCGCG
+HWI-EAS443:3:82:1737:768#0/1
`bb`aa_`baa`a`_`baa_U_`Z`aN¥_`^`^W_ZZ^^
@HWI-EAS443:3:82:1777:1759#0/1
AAAGAACTGAGAGATCTAATGTCGCAGTCCCGCACTCGCG
+HWI-EAS443:3:82:1777:1759#0/1
_bb`b`baa`baaa`aaaa`^aa`WY[^`[^]^[Y[
@HWI-EAS443:3:82:182:439#0/1
AAAAGAACTGAGAGATCTAATGTCGCAGTCCCGCACTCGC
+HWI-EAS443:3:82:182:439#0/1
aaa`aa`aba_bbaaaaa_aa_aaaa_Y____^`_`^U__X
@HWI-EAS443:3:82:197:963#0/1
CCCGTTTTCGTTTTATTACCAACTACGTCCCCTTGCCC
+HWI-EAS443:3:82:197:963#0/1
aZ]^GMa¥aYU^a]P]Y`__`XST`]^`XWS`a^W[TMOX[
@HWI-EAS443:3:82:212:386#0/1
CTCACTAAGACCACTGTGGACCATATGGCCATAATCAAAA
+HWI-EAS443:3:82:212:386#0/1
H^bbb_[`b`U`bba__U_]`b]b]a¥¥[UW¥_¥_[b`
@HWI-EAS443:3:82:253:929#0/1
CGCACTCAGAATGAAGTGGATGATGGCAATGAGATACCCA
+HWI-EAS443:3:82:253:929#0/1
aababa`[`abab_aa_aaaaba`aa`TZ``Xa[_a``_a
@HWI-EAS443:3:82:260:572#0/1
AAAGGATGCAGGTGCATTGACTGAAGATCCAGATGAAGGC
+HWI-EAS443:3:82:260:572#0/1
a^`baaabaaaa¥_aaaa¥_aabaa__^^^__a___ZZ
@HWI-EAS443:3:82:296:1207#0/1
GAACTGTAAGTCGTTTGGTTGCCTTGTGTAATTGAATAC
+HWI-EAS443:3:82:296:1207#0/1
aabbbaa^`a]a^_aab`a`bba^a_aa_b_a^aa_a_
@HWI-EAS443:3:82:300:796#0/1
CCCGTTTTCGTTTTATTACCAACTACGTCCCCTTGCCC
+HWI-EAS443:3:82:300:796#0/1
aabb`aabb`^`^`aabaaaaaa`^__Y`a`_`^^^]
@HWI-EAS443:3:82:332:614#0/1
GGCCATATCTCTTGTCTTCTTTGCCAAAATGAGAAATC
+HWI-EAS443:3:82:332:614#0/1
abbbbababbababbaaaabbabab`aaaaabbbbaaaaa
@HWI-EAS443:3:82:419:59#0/1
CACTTTCAAAGGACAAGCGGATCATCAGTCAAGAAAGAA
+HWI-EAS443:3:82:419:59#0/1
H^_b[``Xbb`aabb_ba_bbbba_bbbbZaabbaa_a`a
@HWI-EAS443:3:82:447:1206#0/1
ATCATTCTCACTTCTCCTCCTGGAGTGATACATCTGCTCC
+HWI-EAS443:3:82:447:1206#0/1
aa`_aabbabaaaaabaabaa`¥`__a^^`aaa`a__a`
@HWI-EAS443:3:82:498:1072#0/1
GTGGAGTCTGCTGTCCTGAGAGGATTTCTCATTTTGGGCA

+HWI-EAS443:3:82:498:1072#0/1
aR[TP[_Z__U[QXaR^[^__X_]XSTZ^[Z]]_V]
@HWI-EAS443:3:82:504:995#0/1
CTAATGTCGCGAGTCCCGCACTCGCGAGATACTACTAAGA
+HWI-EAS443:3:82:504:995#0/1
aaba`W^_T¥`WQa¥_VXW]^]^XXX¥_UNTT¥_VZ]QJ]
@HWI-EAS443:3:82:514:847#0/1
GCAGACCCATTAGCATCTCTCTTGAAATGTGCCACAGCA
+HWI-EAS443:3:82:514:847#0/1
aabba`abba`bab`aaabaabbbbaabb`a^aaaaaa^¥
@HWI-EAS443:3:82:556:902#0/1
AGAGAATAAAAGAACTGAGAGATCTAATGTCGCGAGTCCCG
+HWI-EAS443:3:82:556:902#0/1
aaZ`_ZbU[aab_Q_Zab`baaab``aaa^¥_baa`_a__
@HWI-EAS443:3:82:558:290#0/1
CCCCGTTTTCGTTTCATTACCAACTACGTCCCCTTGCCC
+HWI-EAS443:3:82:558:290#0/1
abbb^abbbabb``bbbabaaaaabaa_aaaa`¥a`_a
@HWI-EAS443:3:82:562:72#0/1
AAAGAACTGAGAGATCTAATGTCGCGAGTCCCGCACTCGCG
+HWI-EAS443:3:82:562:72#0/1
aa`_a_aZabaY`bZbZba`aaW__Z`a]YU]]]]UY]^Y]
@HWI-EAS443:3:82:565:57#0/1
GAAGGCACATCTGGGGTGGAGTCTGCTGCTCCTGAGAGGAT
+HWI-EAS443:3:82:565:57#0/1
a`_a_[¥`_a¥`__¥`Qa_¥`XZ_`^Z[W¥^WZ[ZZ_¥V¥
@HWI-EAS443:3:82:572:1379#0/1
GTCCCGTTTTCGTTTCATTACCAACTACGTCCCCTTGCC
+HWI-EAS443:3:82:572:1379#0/1
]abb¥[XLa[aa^Q_a^]¥aUJVabaabaXFZba]`_aa
@HWI-EAS443:3:82:599:1643#0/1
TCCCGTTTTCGTTTCATTACCAACTACGTCCCCTTGCC
+HWI-EAS443:3:82:599:1643#0/1
]^`_aabb`b`a¥_bbabb_bba_aab`_a_baa¥_aa[
@HWI-EAS443:3:82:624:1970#0/1
CGTTTTCGTTTCATTACCAACTACGTCCCCTTGCCAA
+HWI-EAS443:3:82:624:1970#0/1
aZRZ]¥baYaaaa_b`aaa`ba`ba`^aaaa_^]`PYa`
@HWI-EAS443:3:82:625:37#0/1
GTCTTAGTGAGTATCTCGCGAGTGCGGACTGCGACATTA
+HWI-EAS443:3:82:625:37#0/1
aa`bbabababab^^X¥aa`H¥Ya_a^`YY[_Y]YZ`_V
@HWI-EAS443:3:82:667:1471#0/1
AAAGAACTGAGAGATCTAATGTCGCGAGTCCCGCACTCGCG
+HWI-EAS443:3:82:667:1471#0/1
UPYb`a]aa__ababb```baaaVa`a^baZX``]`_`aa¥
@HWI-EAS443:3:82:68:885#0/1
CCCGCACTCAGAATGAAGTGGATGATGGCAATGAGATACC
+HWI-EAS443:3:82:68:885#0/1
abbbbaaabaY````_aV``````__^^^`_`¥^`]R

@HWI-EAS443:3:82:714:1771#0/1
AGAGAATAAAAGAACTGAGAGATCTAATGTCGCAGTCCCG
+HWI-EAS443:3:82:714:1771#0/1
T^`^`^`_a_aa`]^_[¥`^ab`ZX[___T_`aZ¥VMX[`
@HWI-EAS443:3:82:723:1104#0/1
GGATGATGGCAATGAGATACCCAATTACAGCAGACAAGAG
+HWI-EAS443:3:82:723:1104#0/1
ab_]a¥]b]^aXaa]^a^]aa`a_aaaa``_aa``a_aaa
@HWI-EAS443:3:82:744:207#0/1
AAAGAAGTGGAGATCTAATGTCGCAGTCCCGCACTCGCG
+HWI-EAS443:3:82:744:207#0/1
]aW¥^a`a``]abaaa`a`aUR^bYaTMYLWaYLPVP___
@HWI-EAS443:3:82:750:357#0/1
CTGGAAAAGCACTTTTGCATCTTTTGGAAATGCCTCAAG
+HWI-EAS443:3:82:750:357#0/1
ababbbbaabbbbbbbb`bb_bbabbbbbbbb`abaaab
@HWI-EAS443:3:82:759:837#0/1
GTGGATGATGGCAATGAGATACCCAATTACAGCAGACAAG
+HWI-EAS443:3:82:759:837#0/1
a_``_a_P¥aaRP^a]Wa_[`a`]aa`^V]^Z¥a_]a`__
@HWI-EAS443:3:82:777:294#0/1
GGAAAGGATGCAGGTGCATTGACTGAAGATCCAGATGAAG
+HWI-EAS443:3:82:777:294#0/1
ab`aabaabaaa_Va`aa_¥a^`aab_```¥a`_``_`_
@HWI-EAS443:3:82:829:1606#0/1
AAAAGAAGTGGAGATCTAATGTCGCAGTCCCGCACTCGC
+HWI-EAS443:3:82:829:1606#0/1
aaabaabbbababaaaaabaaa_``aa_`aaaaa[``^`Xa
@HWI-EAS443:3:82:830:1783#0/1
CTTGTCTGCTGTAATTGGGTATCTCATTGCCATCATCCAC
+HWI-EAS443:3:82:830:1783#0/1
abbbb^bbb]IZbbabab`LaS]_bbba_bab```]a`ba
@HWI-EAS443:3:82:835:2011#0/1
CACTTTTGCATCTTTTGGAAATGCCTCAAGAGTTGGTGC
+HWI-EAS443:3:82:835:2011#0/1
abbaaababb`aabaaaa`aaaaa¥a^bab[aaTS^a
@HWI-EAS443:3:82:844:587#0/1
GTCTGCTGTCTGAGAGATTCTCATTCTTGGGCAAAGAA
+HWI-EAS443:3:82:844:587#0/1
aaabbabbaababaaaaabaaabba`aabababaaaaaa`
@HWI-EAS443:3:82:856:951#0/1
GTCTGCTGTAATTGGGTATCTCATTGCCATCATCCACTTC
+HWI-EAS443:3:82:856:951#0/1
a`^Z]a_RX^^____L¥_`^`a]Z_ZZ[```Z¥]¥`^^^
@HWI-EAS443:3:82:875:419#0/1
AAAGAAGTGGAGATCTAATGTCGCAGTCCCGCACTCGCG
+HWI-EAS443:3:82:875:419#0/1
aabbaaabbbbaaaaaaa`aa`aaaab]aa`a`W`_a`^a
@HWI-EAS443:3:82:888:281#0/1
TGTCGATGGATTCAATCCCGAGTTCTGAAAAGCACTTT

+HWI-EAS443:3:82:888:281#0/1
ababbaabbaaaaa¥aaaaa¥¥__a`aaaaaa`]a_a_`
@HWI-EAS443:3:82:897:321#0/1
GCTGTAATTGGGTATCTCATTGCCATCATCCACTTCATTC
+HWI-EAS443:3:82:897:321#0/1
aaaa[^`aba^Zaa_a`__`^]_`__[¥¥^``_Z^a_^
@HWI-EAS443:3:82:921:1075#0/1
AAAGAAGTCTAATGTCGCAGTCCCGCACTCGCG
+HWI-EAS443:3:82:921:1075#0/1
aaZa_a_b^[a`a`abaaaa_a¥`¥a¥¥``_`V^`Z^[_
@HWI-EAS443:3:82:941:20#0/1
TCCCCTTTGCTGCTGCCACAGAGTAGGATGCA
+HWI-EAS443:3:82:941:20#0/1
aaaa_aabb`aa^aa___a`Z`aa^`[^a_aV_`[[`T^
@HWI-EAS443:3:82:942:1091#0/1
AAAAGAAGTCTAATGTCGCAGTCCCGCACTCGC
+HWI-EAS443:3:82:942:1091#0/1
`_bbba`b_V_XY_`baaab`bRV]aaX^_Y_Y_[_W_Y_
@HWI-EAS443:3:82:943:1007#0/1
GAGAGATCTAATGTCGCAGTCCCGCACTCGCGAGATACTC
+HWI-EAS443:3:82:943:1007#0/1
`ZS^`¥`a`YUXa¥a__V[Z¥XVDMW¥ST¥__V[RVWY¥Q
@HWI-EAS443:3:82:965:588#0/1
GATCGGAATACTGCCCGACATGACCCCAAGCACGGAGATG
+HWI-EAS443:3:82:965:588#0/1
`a``abaaa]aaaa^aaa`Y¥^a`aa``aa``^^`
@HWI-EAS443:3:82:971:889#0/1
CTGTAATTGGGTATCTCATTGCCATCATCCACTTCATTCT
+HWI-EAS443:3:82:971:889#0/1
_b^^`U`¥bbb`b¥`aW``¥U`b`b_bba_U^bbbbb_[a
@HWI-EAS443:3:83:1015:1221#0/1
ATCAGACCGAGTGATGGTATCACCTCTGGCCGTAACATGG
+HWI-EAS443:3:83:1015:1221#0/1
a_a``aa]aaaX`_Y^`V_a¥RRX_^[VU^¥`VU[Z¥^X0
@HWI-EAS443:3:83:1023:1868#0/1
GGGCGATCTGAACCTTGTCAATAGGGCAAACCAGCGACTG
+HWI-EAS443:3:83:1023:1868#0/1
a`¥YaZa_[XZa[^^HWY]¥^`[^ZWa_aZZ_^a__¥¥_
@HWI-EAS443:3:83:1058:331#0/1
AAAAGAAGTCTAATGTCGCAGTCCCGCACTCGC
+HWI-EAS443:3:83:1058:331#0/1
aaaaaaaaabbaaa_aa^aa`b_^_¥`^]_^Y^X^^]V
@HWI-EAS443:3:83:107:360#0/1
GGAAAAGCACTTTTGCATCTTTTGGAAATGCCTCAAGAG
+HWI-EAS443:3:83:107:360#0/1
ababbbab`abaaababbabbaabaaa`aaa]aaaa`aaa
@HWI-EAS443:3:83:1125:1930#0/1
GAATTGCCTCTTACCAGTATCCTCAACCCTGATCCTCTCA
+HWI-EAS443:3:83:1125:1930#0/1
aK^W¥b_I00¥`^`_]V]b`0^`b¥a_]a¥b_XSTZ¥_]

@HWI-EAS443:3:83:1133:1268#0/1
AAAGAAGTCTAATGTTCGAGTCCCGCACTCGCG
+HWI-EAS443:3:83:1133:1268#0/1
aa_T_aXaaa_aYNP` [__^bX_Ta_ZG[]_^Q¥^USUX
@HWI-EAS443:3:83:115:178#0/1
CCCCGTTTTCGTTTCATTACCAACTACGTCCCCTTGCCC
+HWI-EAS443:3:83:115:178#0/1
aY_¥L[Z¥^`U][W^^¥Y¥W]TUY^Y^]ZYVV[YWUVWTW
@HWI-EAS443:3:83:1162:201#0/1
ACTCACTAAGACCACTGTGGACCATATGGCCATAATCAAA
+HWI-EAS443:3:83:1162:201#0/1
abb`bbbbbaaaaabbaa`b`]_aaaaY]a`__[^__`
@HWI-EAS443:3:83:1172:696#0/1
CAATAACAAAAGAGAAGAAAGAAGAGCTCCAGGATTGTAA
+HWI-EAS443:3:83:1172:696#0/1
abbbbaabbbbaabaabbaabaaba`aaaaba`aab`a_
@HWI-EAS443:3:83:1210:1152#0/1
GTCCCGTTTTCGTTTCATTACCAACTACGTCCCCTTGC
+HWI-EAS443:3:83:1210:1152#0/1
a_`````aaaa`aZ`````a`_^`Z`_^`^YZ_ZX^R]XZ
@HWI-EAS443:3:83:1211:1311#0/1
CATTATTCTTGTCTGTCTGTAATTGGGTATCTCATTGCC
+HWI-EAS443:3:83:1211:1311#0/1
a^bbba_]`]b`VL_aaY`_Z`_¥`Z`aS`a]a0_[Z]_W
@HWI-EAS443:3:83:1212:891#0/1
CAATGAGATACCAATTACAGCAGACAAGAGAATAATGGA
+HWI-EAS443:3:83:1212:891#0/1
abbbbbbbbbbbbbabbbabbbbaabaabbabbbabbaa
@HWI-EAS443:3:83:1229:1447#0/1
ATCTAATGTTCGAGTCCCGCACTCGCGAGATACTCACTAA
+HWI-EAS443:3:83:1229:1447#0/1
aa`]aa`^`^`_] [G^¥`V_^VZWYQ[^¥¥UQZSW¥QWW
@HWI-EAS443:3:83:1229:147#0/1
AAACGACTTACAGTTCTTGAAAGGATGCAGGTGCATTGA
+HWI-EAS443:3:83:1229:147#0/1
aaa_a__bb_ba`_babbab]_]aa`ab^_a^VZ_Za^`
@HWI-EAS443:3:83:1237:293#0/1
AAAGAAGTCTAATGTTCGAGTCCCGCACTCGCG
+HWI-EAS443:3:83:1237:293#0/1
a` [`WV`bbabab`_`_ba_a`XFV`_`b`TMR`_]`_T¥[]
@HWI-EAS443:3:83:1237:512#0/1
GTCCCGTTTTCGTTTCATTACCAACTACGTCCCCTTGC
+HWI-EAS443:3:83:1237:512#0/1
aZ[U_baaaa`a`_a]_`[^]^_Y^_]_[LVY^UUV¥Y]Y
@HWI-EAS443:3:83:126:1804#0/1
ATGGCCATATGGTCCACAGTGGTCTTAGTGAGTATCTCGC
+HWI-EAS443:3:83:126:1804#0/1
a[]^abaYZYY[T^`¥^`^WZ`_S¥¥^¥]UV¥^W^¥WWW¥UW
@HWI-EAS443:3:83:1279:963#0/1
CCCCGTTTTCGTTTCATTACCAACTACGTCCCCTTGCCC

+HWI-EAS443:3:83:1279:963#0/1
U_abaXa_¥¥a`¥¥`^^¥aababbUY`N^_HV`^`aa
@HWI-EAS443:3:83:1284:1744#0/1
GAGGATTTCTCATTTTGGGCAAAGAAGACAAGAGATATGG
+HWI-EAS443:3:83:1284:1744#0/1
aaaa`aa`aa`a_P_aa`]a_aaaaa`[^_`^`_a]_Z
@HWI-EAS443:3:83:1336:531#0/1
AGAAGTCTGAGAGATCTAATGTTCGAGTCCCGCACTCGCGAG
+HWI-EAS443:3:83:1336:531#0/1
^^TWPQ`TPW¥aW^a¥U_bY_a]_^VN^a]P]XH_]¥W]S
@HWI-EAS443:3:83:1370:1353#0/1
GCACTCGCGAGATACTACTAAGACCACTGTGGACCATAT
+HWI-EAS443:3:83:1370:1353#0/1
H^`V^_TY¥¥_¥aabbbb_bbaba_¥__QI¥abbbbb`ab
@HWI-EAS443:3:83:1397:416#0/1
AAAGAAGTCTGAGAGATCTAATGTTCGAGTCCCGCACTCGCG
+HWI-EAS443:3:83:1397:416#0/1
abb_ababbbbaaaaaabbabb_^`aa`^_a]^`^aa`_`
@HWI-EAS443:3:83:144:1662#0/1
CTGCTGTCTGAGAGATTTCTCATTTTGGGCAAAGAAGA
+HWI-EAS443:3:83:144:1662#0/1
a____^`^aa`_`[_`¥]X`_]^^^]`^]_]WU¥^`^P[][_]
@HWI-EAS443:3:83:1622:1741#0/1
ACGACTTACAGTTCTTGAAAGGATGCAGGTGCATTGACT
+HWI-EAS443:3:83:1622:1741#0/1
a^WUTa_a_aa]_]aa`_`W^^¥__a^`¥]Y`W__Z`^Z`
@HWI-EAS443:3:83:1657:430#0/1
AGAAGAGCTCCAGGATTGTAATAATTGCTCCCTTGATGGTG
+HWI-EAS443:3:83:1657:430#0/1
aa`_`aWaXaXaU_V]aaaU]^_U^aZS^NTLV[[U^XPR^
@HWI-EAS443:3:83:1773:848#0/1
AAAAGAAGTCTGAGAGATCTAATGTTCGAGTCCCGCACTCGC
+HWI-EAS443:3:83:1773:848#0/1
a]a`_`[_`¥`_`aa`¥`_]ba]a`____`VNO]aVTV[^NL
@HWI-EAS443:3:83:183:182#0/1
ACTCACTAAGACCACTGTGGACCATATGGCCATAATCAAA
+HWI-EAS443:3:83:183:182#0/1
aababbaab`aa]__a__`_¥`a`a]`aa__aXZ`]¥^`_`
@HWI-EAS443:3:83:189:246#0/1
GACTCTGATGTCAGTATTCTTGCCCCACTTCATTTGGGA
+HWI-EAS443:3:83:189:246#0/1
^]ZaJaWWb_ba`^]TV`__a^¥[`]_]YT]NY]^`^^Z
@HWI-EAS443:3:83:199:801#0/1
TCCCGTTTTCGTTTCATTACCAACTACGTCCTTCCCTTGCC
+HWI-EAS443:3:83:199:801#0/1
^W[N¥J[``aaJ][bY^abW^XYZa`^L` `[`_`[XYaa`
@HWI-EAS443:3:83:201:1124#0/1
CTTCCTGATGTGTACTTTTTGATTATGGCCATATGGTCCA
+HWI-EAS443:3:83:201:1124#0/1
aa`_a_¥Y]aX_^^`_`^¥^aa¥V¥_`[^`_YPVNLULYYX

@HWI-EAS443:3:83:202:1959#0/1
CTAATGTCGCAGTCCCGCACTCGCGAGATACTCACTAAGA
+HWI-EAS443:3:83:202:1959#0/1
aaa`_`¥]T___Ha`_S_TNY]^]W¥RVVHX^^]YR`^P¥
@HWI-EAS443:3:83:208:609#0/1
AAAAGAAGTGGAGATCTAATGTCGCAGTCCCGCACTCGC
+HWI-EAS443:3:83:208:609#0/1
ab[aa`_a_a`^`__`a_a`]^`^`_`[_VaX^¥`W_^^
@HWI-EAS443:3:83:233:400#0/1
TGCCCCGTTAGCACTTCTTCTTTCTTGGACTGATGATCC
+HWI-EAS443:3:83:233:400#0/1
_Za__¥`_`[a^[]^`^`aaa]a`aa^^¥UX`a`_]`[[Z¥
@HWI-EAS443:3:83:252:1671#0/1
ATCTAATGTCGCAGTCCCGCACTCGCGAGATACTCACTAA
+HWI-EAS443:3:83:252:1671#0/1
aa_¥_]`_`¥]OY_ML¥_TXYMZTPXUQUPKJTVLSXSSTQ
@HWI-EAS443:3:83:252:74#0/1
GGATCAGACCGAGTGATGGTATCACCTCTGGCCGTAACAT
+HWI-EAS443:3:83:252:74#0/1
abaaaba__a`aaZa````S`^]^^^¥¥¥_`^¥¥`HW[OTW
@HWI-EAS443:3:83:286:840#0/1
TTCCTGATGTGTACTTTTTGATTATGGCCATATGGTCCAC
+HWI-EAS443:3:83:286:840#0/1
a`aaa__^a]_PL]aaa`aa__`__^¥__^X]XHPUZHWV
@HWI-EAS443:3:83:291:1874#0/1
CGTCCCTTGGGTAAAGTGCAACACTTCAATATAAAACTG
+HWI-EAS443:3:83:291:1874#0/1
aa`aab^a_`_¥]a`ORRaaa`_`¥¥_a____`a_a_aaV_
@HWI-EAS443:3:83:297:1236#0/1
CAACAACAAGTACAGTTCATTACCCTAAGGTATATAAAAC
+HWI-EAS443:3:83:297:1236#0/1
^WWQQR]^]ZU¥FV_^_`^¥U`_YMVZGT__LYV]XXBBBB
@HWI-EAS443:3:83:305:520#0/1
CTTGTGACCATTGAATTTTCAATTTCCCAGTTCCTGAT
+HWI-EAS443:3:83:305:520#0/1
aaaa_aa`[aa`bb`a`aaaaaa_aa¥_aa_Z]a````^_
@HWI-EAS443:3:83:326:660#0/1
GGGCAAGGGGACGTAGTGTGGTAATGAAACGAAAACGGG
+HWI-EAS443:3:83:326:660#0/1
abba_`^`^`X^aX`b]bXbaaP¥``aX``P]]^J[a]¥]
@HWI-EAS443:3:83:364:2030#0/1
ACCATCCTTACTCCTCCAATCTGTGTGCTGTGGCACATTT
+HWI-EAS443:3:83:364:2030#0/1
TT¥^`_`bb_V^aX0`_]`_`^a_¥J`RU`_]_XYT_`^`]¥X]
@HWI-EAS443:3:83:369:313#0/1
TCCCGTTTTCGTTTCATTACCAACTACGTCCCCTTGCC
+HWI-EAS443:3:83:369:313#0/1
aaaab`aa`_a_a``aaaa__a_]a`____]Z`]^_]U^WZ
@HWI-EAS443:3:83:380:199#0/1
AAACGACTTACAGTTCCTGGAAAGGATGCAGGTGCATTGA

+HWI-EAS443:3:83:380:199#0/1
^`a____¥b¥b^Zaa^]_`a]aXaaa_aYZW^J`VV¥W_]`
@HWI-EAS443:3:83:386:151#0/1
TGCTGTAATTGGGTATCTCATTGCCATCATCCACTTCATT
+HWI-EAS443:3:83:386:151#0/1
abaabaXaaabaa_aaaa`aa`a`a_a`aa`_a^__`_`_`_`
@HWI-EAS443:3:83:391:1017#0/1
AAAGAAGTGGAGATCTAATGTCGCAGTCCCGCACTCGCG
+HWI-EAS443:3:83:391:1017#0/1
abaaabaa_aaaa`a`_`aa_a^`]`^^`_`¥HZ`^`^`
@HWI-EAS443:3:83:392:1992#0/1
GTCCCGCACTCGCGAGATACTCACTAAGACCACTGTGGAC
+HWI-EAS443:3:83:392:1992#0/1
aJbb_N`_`aaabX`^b`_b`a]_a`aZP]a]a^UN`T_Z
@HWI-EAS443:3:83:395:986#0/1
CGCACTCGCGAGATACTCACTAAGACCACTGTGGACCATA
+HWI-EAS443:3:83:395:986#0/1
a`aYa`a_a_[Y_^_^`^^`_`_`_]`^`_`_`^X]Y^^]`^`_`
@HWI-EAS443:3:83:405:310#0/1
GCAAGGGGACGTAGTGTGGTAATGAAACGAAAACGGGAC
+HWI-EAS443:3:83:405:310#0/1
a_W]`ba0abYYWR`X`]VRTVYYZ[`W]XRHZX_]XX
@HWI-EAS443:3:83:423:1620#0/1
GTACTTTTTGATTATGGCCATATGGTCCACAGTGGTCTTA
+HWI-EAS443:3:83:423:1620#0/1
aH`aa[aaV[^`]]aXUb`_`¥PHXU__T_a_W[][_]TF
@HWI-EAS443:3:83:438:1213#0/1
GCCAGGGTTTGTATCAACTCTCCTCCTTATTTTAACTTGA
+HWI-EAS443:3:83:438:1213#0/1
Zb`_`_`_`J[^ZXaY_QY__^^`]aab`Qaab`_`Z¥`a_
@HWI-EAS443:3:83:438:464#0/1
GTGAGTATCTCGCGAGTGCAGGACTGCGACATTAGATCTC
+HWI-EAS443:3:83:438:464#0/1
aT`]YS]_`U]WX¥N_Y]WY`TZ^LJV¥WZ^ZQPQGSU¥H
@HWI-EAS443:3:83:443:914#0/1
AAAGAAGTGGAGATCTAATGTCGCAGTCCCGCACTCGCG
+HWI-EAS443:3:83:443:914#0/1
a`a_aa^`][[`¥LTa`[V_a^a`_`aW¥Z^[_T¥Va]_¥
@HWI-EAS443:3:83:44:1475#0/1
AGAAGAGCAACAGCTATTCTCAGAAAGGCAACCAGGAGAT
+HWI-EAS443:3:83:44:1475#0/1
aaa`a^`_a[aa]a_____a`a`]T¥]^`_`[X^^W^XZUZ
@HWI-EAS443:3:83:455:1140#0/1
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+HWI-EAS443:3:83:455:1140#0/1
aaaaa^Va_Y`ba`aaa]a___aaa¥]a^aaY`_`^`_¥a¥
@HWI-EAS443:3:83:46:268#0/1
AAAGAAGTGGAGATCTAATGTCGCAGTCCCGCACTCGCG
+HWI-EAS443:3:83:46:268#0/1
aaaa_____^^¥`_`_]a`YV`^S]_^`][U^]YPSRX]]TS^

@HWI-EAS443:3:83:508:1677#0/1
AAAGAAGTCTAATGTTCGAGTCCCGCACTCGCG
+HWI-EAS443:3:83:508:1677#0/1
^^`aaba`a^`Za`a`^]¥b]YR_b^WVU[^HV[RJYU
@HWI-EAS443:3:83:527:1394#0/1
GTTGAGGATACTGGTAAGAGGCAATTCTCCAGTATTCAAT
+HWI-EAS443:3:83:527:1394#0/1
aaaaaaa`aaaa_^[¥V[^^^aaa`a¥^a`a_V[^``aa_
@HWI-EAS443:3:83:577:445#0/1
GGAAAAGCACTTTTGCATCTTTTTGGAAATGCCTCAAGAG
+HWI-EAS443:3:83:577:445#0/1
aba`a`a_a`a`a_a`_a_a`_a`aZ_````Z`]`__a¥a
@HWI-EAS443:3:83:586:933#0/1
GGCGATCTGAACCTTGTCAATAGGGCAAACCAGCGACTG
+HWI-EAS443:3:83:586:933#0/1
ab`abbabbbabbab`abbaaaabaaaab_aa`a`a
@HWI-EAS443:3:83:601:1951#0/1
CACTTCAATATAAACACTGCCTGTTCCGCCGCTACTGGG
+HWI-EAS443:3:83:601:1951#0/1
aa_]bY[Xa`a_^^`_[VY`]VQYa`^`^VUZ¥]LLRUQ
@HWI-EAS443:3:83:628:1356#0/1
GTCCCGTTTTTCGTTTCATTACCAACTACGTCCCTTGC
+HWI-EAS443:3:83:628:1356#0/1
a_b``b_aaab`_^aaaaaaa`a`a`a_[Wa_]`[`[¥¥
@HWI-EAS443:3:83:641:670#0/1
TCCTGATGTGACTTTTTGATTATGGCCATATGGTCCACA
+HWI-EAS443:3:83:641:670#0/1
aab`_[^b`ZH[^aaa`_[]^RUX]Z[^WPU[¥G]^TXZ
@HWI-EAS443:3:83:670:1012#0/1
CCCGTTTTTCGTTTCATTACCAACTACGTCCCTTGGCC
+HWI-EAS443:3:83:670:1012#0/1
Zaa¥¥_[___W¥a`_]R]aababba[`aZTa_b_PZZa_X
@HWI-EAS443:3:83:684:1192#0/1
CTGCTGTAATTGGGTATCTCATTGCCATCATCCACTTCAT
+HWI-EAS443:3:83:684:1192#0/1
aaZU^LPJ`a`_[`]Yba`[aa``aa_aaaaZa]`_Qaa^a
@HWI-EAS443:3:83:689:1384#0/1
ATTACAACAAGGCAACCAAACGACTTACAGTTCTTGAAA
+HWI-EAS443:3:83:689:1384#0/1
aa``¥`_[^T¥WY][aZ`___]^ [TZ_`]¥XU¥XY[^Z]Y
@HWI-EAS443:3:83:719:1706#0/1
GAGAGATCTAATGTTCGAGTCCCGCACTCGCGAGATACTC
+HWI-EAS443:3:83:719:1706#0/1
aabaZbbbabbabbaba__aab^a]a[a`aa`__Za]
@HWI-EAS443:3:83:743:1926#0/1
ACACTTCAATATAAACACTGCCTGTTCCGCCGCTACTGG
+HWI-EAS443:3:83:743:1926#0/1
`a¥_^aa]a]Y]aaaba_T_`_XQL^`]QR^¥XO[¥QGNZ
@HWI-EAS443:3:83:755:1730#0/1
CAAGGACAAACCCTCTGGAGCAAAACAAACGATGCTGGAT

+HWI-EAS443:3:83:755:1730#0/1
`Z`a`aaa¥`a¥]Y¥¥V[a_a_a]aa[a^^a_[__`_[Z
@HWI-EAS443:3:83:757:757#0/1
GGGCCATATCTTGTCTTCTTTGCCAAAATGAGAAATC
+HWI-EAS443:3:83:757:757#0/1
aaaaaabbbbbabaa`bbbabbbbbaaababaabaa^aaa
@HWI-EAS443:3:83:762:772#0/1
ATACTCACTACCACTCTCTCCGTGCTGGAGTATTCATCTA
+HWI-EAS443:3:83:762:772#0/1
V^_^Z`^b_`aa¥[__a`^[^ZaWY¥abS_XbTb_aa_
@HWI-EAS443:3:83:764:799#0/1
GAATAAAAGAACTGAGAGATCTAATGTCGCAGTCCCGCAC
+HWI-EAS443:3:83:764:799#0/1
aU¥`XZ[^]Z`^YZ^aaaaX`aa`X`a_`aR¥]XU_YY
@HWI-EAS443:3:83:772:886#0/1
AAAGAACTGAGAGATCTAATGTCGCAGTCCCGCACTCGCG
+HWI-EAS443:3:83:772:886#0/1
a`a`a[a]`_a`W[]a`]a_^_¥aa`PX^`Z`V__`_W^
@HWI-EAS443:3:83:79:1358#0/1
CGTACATGCTAGAAAGAGAATTGGTCCGTAACAAGGTT
+HWI-EAS443:3:83:79:1358#0/1
abVbaaaab_]^a`]^`]]`aa__S`Y]¥__`NT]a__Y
@HWI-EAS443:3:83:815:537#0/1
GCTAATGTGCTAATTGGGCAAGGGGACGTAGTGTGGTAA
+HWI-EAS443:3:83:815:537#0/1
aaa`^[aW]^`_`a`Taa_Z[[^`U^aV¥`Y^¥W`[VV^
@HWI-EAS443:3:83:821:195#0/1
CGAGATACTCACTAAGACCACTGTGGACCATATGGCCATA
+HWI-EAS443:3:83:821:195#0/1
abababa`abaaaba`aaaaaa^aa_`^a__aa^__^^
@HWI-EAS443:3:83:836:1475#0/1
GCACTCGCGAGATACTCACTAAGACCACTGTGGACCATAT
+HWI-EAS443:3:83:836:1475#0/1
`_RZ`a`a]__]Zaa`Z`_a`aaaa`U]]`a_]Z`W
@HWI-EAS443:3:83:842:424#0/1
AAAGAACTGAGAGATCTAATGTCGCAGTCCCGCACTCGCG
+HWI-EAS443:3:83:842:424#0/1
abbaababbaab[aa`ababb_aa_aa¥`a_a_YaY_a]_
@HWI-EAS443:3:83:879:349#0/1
GAGAGATCTAATGTCGCAGTCCCGCACTCGCGAGATACTC
+HWI-EAS443:3:83:879:349#0/1
a_a_a__`_`ba_¥`a`_`[_^Z[_W__a¥[_`¥¥[WZW
@HWI-EAS443:3:83:898:897#0/1
GGGGACGTAGTGTGGTAATGAAACGAAACGGGACTCTA
+HWI-EAS443:3:83:898:897#0/1
`^`aZa¥]a^R]¥ab]^aaa_`^a`b_aaa`¥a`]a``]
@HWI-EAS443:3:83:913:190#0/1
GTCTGCTGTCTGAGAGGATTTCTCATTGTTGGGCAAAGAA
+HWI-EAS443:3:83:913:190#0/1
a_`aa`aa_]`a[a`aa[_`a]`^^__`_^]_Y__X^

@HWI-EAS443:3:83:914:1890#0/1
CAATGAGATACCCAATTACAGCAGACAAGAGAATAATGGA
+HWI-EAS443:3:83:914:1890#0/1
abbabbbaabbaabaaaba`]a`aabaaaaa`aba[a
@HWI-EAS443:3:83:928:1561#0/1
AGTCGTTTGGTTGCCTTGTGTAATTGAATACTGGAGAAT
+HWI-EAS443:3:83:928:1561#0/1
aaa^``aaaa[aaaaaa`aa^Yaaa`Taaaa_^YWZ]a_X
@HWI-EAS443:3:83:943:90#0/1
GTCCCCGTTTTCGTTTCATTACCAACTACGTCCCCTTGC
+HWI-EAS443:3:83:943:90#0/1
aa_`¥b`__abaaa__aa_aRPTZ]`XaLLaYXZYPW_`T
@HWI-EAS443:3:84:100:1998#0/1
GGGGCAAGAATACTGACATCAGAGTCACAGCTGACAATAA
+HWI-EAS443:3:84:100:1998#0/1
abY`__]PY`^`[aaaaaaYUYNa0`aabZWG¥F_a`_a_
@HWI-EAS443:3:84:1092:491#0/1
CTTGTGACCATTGAATTTTACAATTTCCCAGTTCCTGAT
+HWI-EAS443:3:84:1092:491#0/1
abab^]W^a`a`ba`^``aaaaU_]IM`QOSRa¥_aW_
@HWI-EAS443:3:84:1108:1477#0/1
AAAAGAAGACTGAGAGATCTAATGTCGCAGTCCCGCACTCGC
+HWI-EAS443:3:84:1108:1477#0/1
0[_`¥U¥YHWZ^aPVWbU__aRa`P`UW_W¥U^L_baa^
@HWI-EAS443:3:84:1110:634#0/1
CCGTTTTCGTTTCATTACCAACTACGTCCCCTTGCCCA
+HWI-EAS443:3:84:1110:634#0/1
a`b^a`bbb]``_`````aa^Z``aaaXY`TW^``a]YYa
@HWI-EAS443:3:84:1129:520#0/1
GCTAATGTGCTAATTGGGCAAGGGGACGTAGTGTGGTAA
+HWI-EAS443:3:84:1129:520#0/1
a`aa_ab^`X`^`__Z[_^a__a^Xa]]aX`X^^_OTZ
@HWI-EAS443:3:84:1130:266#0/1
GAAGAGCAACAGCTATTCTCAGAAAGGCAACCAGGAGATT
+HWI-EAS443:3:84:1130:266#0/1
`OY_]¥¥X^WW^P[]^_W_¥[`ZWUYZ[Y[YYQ¥TSYX]¥
@HWI-EAS443:3:84:1153:1838#0/1
AAAAGAAGACTGAGAGATCTAATGTCGCAGTCCCGCACTCGC
+HWI-EAS443:3:84:1153:1838#0/1
[`^`_[`ba]`b`a_a¥X¥_ba_aa]aaY_[U_a`NXUZP
@HWI-EAS443:3:84:1225:1197#0/1
CAGGTGCATTGACTGAAGATCCAGATGAAGGCACATCTGG
+HWI-EAS443:3:84:1225:1197#0/1
ababX_]abbbaaaabbaaaaaabaaaaabaaa]_a`aaa
@HWI-EAS443:3:84:1233:147#0/1
GAACTGTACTTGTGTTGGCCATTCCATTCCACCATGT
+HWI-EAS443:3:84:1233:147#0/1
aab_bbYa_babaaa_b`N`¥¥`aa`Ya_a`T[]ZV`aa_
@HWI-EAS443:3:84:1237:896#0/1
AGAGAATAAAAAGAACTGAGAGATCTAATGTCGCAGTCCCG

+HWI-EAS443:3:84:1237:896#0/1
`a_b``a_babababbbabaabababbbbaa`a`a`]____
@HWI-EAS443:3:84:1265:1097#0/1
GGGGACGTAGTGTGGTAATGAAACGAAAACGGGACTCTA
+HWI-EAS443:3:84:1265:1097#0/1
abaaaab`aa^b`bb`S_`aa`ab_a_a`aZaaa_Z`^`_
@HWI-EAS443:3:84:1269:954#0/1
CAAACCTTTGGTCAACATCATCATTCTCACTTCTCCTCCT
+HWI-EAS443:3:84:1269:954#0/1
aaaaabbbb`aaaa_aaaa_aaab_baaaba_aa^aa^`
@HWI-EAS443:3:84:126:2021#0/1
GTGGACCATATGGCCATAATCAAAAAGTACACATCAGGAA
+HWI-EAS443:3:84:126:2021#0/1
a__^aaaW_aY_[`aa^`aZ]]Z_aaWXaa`__]_`]V[^
@HWI-EAS443:3:84:1296:540#0/1
GGGACGTAGTGTGGTAATGAAACGAAAACGGGACTCTAG
+HWI-EAS443:3:84:1296:540#0/1
aaaV`_H¥aG]aaaaVaWNX__`W]_aU_]a_`¥¥T¥TZV
@HWI-EAS443:3:84:1302:1146#0/1
ATCTGCTCCCAGCACGTCCCTTGGGTTAAGTGCAACACTT
+HWI-EAS443:3:84:1302:1146#0/1
aaaabaaab`¥`]]TXHXV[^^]aZW__aa]`Y¥a]__aZ
@HWI-EAS443:3:84:1341:97#0/1
CCCCTTTTCGTTTTATTACCAACTACGTCCCCTTGCCC
+HWI-EAS443:3:84:1341:97#0/1
_`Q_ST`bab¥a]LUba¥SS[[_]W_a_a[SJV]_^a]]Y
@HWI-EAS443:3:84:1446:1003#0/1
CAACACTTCAATATAAACACTGCCTGTTCCGCCGGCTACT
+HWI-EAS443:3:84:1446:1003#0/1
a^^ab``a]`a_aa[baTaabb^[`b[^SbbaUa_S`^GG
@HWI-EAS443:3:84:1450:147#0/1
AAAATTGCATCCTACTCTGTTCTGGTGGAGCAGCAGCAAA
+HWI-EAS443:3:84:1450:147#0/1
`aa`a_bXa^`X`a_`U^``_Zaaa]a_UaY^¥X¥[KXWS
@HWI-EAS443:3:84:1483:321#0/1
GAATGATCGGAATACTGCCCCGACATGACCCCAAGCACGGA
+HWI-EAS443:3:84:1483:321#0/1
aZ``]]aabbH`X_G_`TMY^ZGWO^YUPXW¥^ZXRLU_B
@HWI-EAS443:3:84:1496:303#0/1
ATCTAATGTCGAGTCCCGCACTCGCGAGATACTCACTAA
+HWI-EAS443:3:84:1496:303#0/1
Sa_Y`a¥Q[MQ_`¥]``VXWVX[SXGNZX`H[BBBBBBBB
@HWI-EAS443:3:84:151:461#0/1
CGCGAGATACTCACTAAGACCACTGTGGACCATATGGCCA
+HWI-EAS443:3:84:151:461#0/1
a_bbaaaa`aa`_`aaa`aa_a`[¥__Z``_S]^_^]
@HWI-EAS443:3:84:1521:727#0/1
TAATGTGCGAGTCCCGCACTCGCGAGATACTCACTAAGAC
+HWI-EAS443:3:84:1521:727#0/1
aaaab_`^`a`a`___`a___[``a¥a___¥___V`__Z[W

@HWI-EAS443:3:84:1556:174#0/1
TTCTCACTTCTCCTCCTGGAGTGTACATCTGCTCCCAGCA
+HWI-EAS443:3:84:1556:174#0/1
aaXa_a]bbZa`¥__[_¥__¥`]`U__N`W¥VQUUZWW
@HWI-EAS443:3:84:1576:1687#0/1
CGTTTTCGTTTTATTACCAACTACGTCCCCTTGCCCAA
+HWI-EAS443:3:84:1576:1687#0/1
`bbaaa^`bbb`abab_[^aabbbbab`TVUZaaa_]X^a
@HWI-EAS443:3:84:1606:1123#0/1
CCTGCATCCTTTCCAAGAACTGTAAGTCGTTTGGTTGCCT
+HWI-EAS443:3:84:1606:1123#0/1
aabb]bbbaabb]YabaaK¥bbaaYa`abab_bba`b_Y_
@HWI-EAS443:3:84:1612:1391#0/1
GCCACAGCACAGATTGGAGGAGTAAGGATGGTGGACAT
+HWI-EAS443:3:84:1612:1391#0/1
`^` [`bba`H`XaV_¥]X[a]b^YaaWaa_`a`Q]Z^_Y^
@HWI-EAS443:3:84:1626:66#0/1
AAAAGAAGTGGAGATCTAATGTCGCAGTCCCCTGCTCGC
+HWI-EAS443:3:84:1626:66#0/1
[bbab`a`bbVaaaaaab_bbaaaaa]_U^_X_X]]YU
@HWI-EAS443:3:84:1645:1576#0/1
AACTGTACTTGTGTTGGGCCATTCTATTCCACCATGTT
+HWI-EAS443:3:84:1645:1576#0/1
XT^a¥[ba^`a]a[aaY``_aa`_`^`a^^U`¥Zaab`_
@HWI-EAS443:3:84:1650:1312#0/1
TGCTGCTCCACCAGAACAGAGTAGGATGCAATTTTCCTCA
+HWI-EAS443:3:84:1650:1312#0/1
ZXOZNTT_W]Y¥G[U_[]aSaVU_[VRFK¥I_[^_UYXU
@HWI-EAS443:3:84:1659:117#0/1
GTCCCCTTTTCGTTTCATTACCAACTACGTCCCCTTGCC
+HWI-EAS443:3:84:1659:117#0/1
¥ZYFU[W[]PWZabUXLKaYPPXYLYBBBBBBBBBBBBBB
@HWI-EAS443:3:84:168:552#0/1
CCCCTTTTCGTTTCATTACCAACTACGTCCCCTTGCCC
+HWI-EAS443:3:84:168:552#0/1
aaba[aaaaa_a``aa``]`aa`a`^`_`V^^`^^W^] ^_
@HWI-EAS443:3:84:1697:1292#0/1
GAATAAAAGAAGTGGAGATCTAATGTCGCAGTCCCCTGAC
+HWI-EAS443:3:84:1697:1292#0/1
a`^aaaaabZ_`ba`_`_^]aa_aa^_¥^`_]X^X^_XU
@HWI-EAS443:3:84:1699:1139#0/1
GTCCCCTTTTCGTTTCATTACCAACTACGTCCCCTTGCC
+HWI-EAS443:3:84:1699:1139#0/1
a[[P¥a¥VZaT^[ZWF[_]^RNJY_^WG[PTQVSULFOWU
@HWI-EAS443:3:84:169:1983#0/1
CGCACTCGCGAGATACTCACTAAGACCACTGTGGACCATA
+HWI-EAS443:3:84:169:1983#0/1
a`a[a_`¥aR]Y^V__]]__^_X_`][VXUXYY]`][X_
@HWI-EAS443:3:84:1709:488#0/1
TCCCCTTTTCGTTTCATTACCAACTACGTCCCCTTGCC

+HWI-EAS443:3:84:1709:488#0/1
a`_`baaa`Ta_aaX¥a^a_Z``]a_a`_a^[_XZ[V[L0
@HWI-EAS443:3:84:1768:1027#0/1
CCCGTTTTTCGTTTCATTACCAACTACTGCCCCCTTGCCC
+HWI-EAS443:3:84:1768:1027#0/1
aaaa`aabaa`baaaaab`_aa`a_aa``____[`^`__^`_
@HWI-EAS443:3:84:1786:201#0/1
CACTGACTCAGGGCCATTGATCTCCCACATCATTGATGAC
+HWI-EAS443:3:84:1786:201#0/1
aa`bb_bba`_baa`¥abbabaaZbab¥abZbbbbb^ab]H
@HWI-EAS443:3:84:182:225#0/1
GTCCCGTTTTTCGTTTCATTACCAACTACTGCCCCCTTGC
+HWI-EAS443:3:84:182:225#0/1
a^aaa`]aa`¥^`^`_^]`^`^`^X^]`^`_¥0]Y^VXYXX
@HWI-EAS443:3:84:226:1294#0/1
ATGTGCGAGTCCCGCACTCGCGAGATACTCACTAAGACCA
+HWI-EAS443:3:84:226:1294#0/1
¥¥XT_U_K]0[aaa^L^`a¥a_QZ`_aa^¥`PK¥`_`]^^
@HWI-EAS443:3:84:254:60#0/1
AAAAGAAGTGAAGATCTAATGTCGCGAGTCCCGCACTCGC
+HWI-EAS443:3:84:254:60#0/1
¥V_a¥b^aa`__WW`UU_aa¥[[Q]_R¥``[VSXGVFYXU
@HWI-EAS443:3:84:25:1355#0/1
CAGTGGTCTTAGTGAGTATCTCGCGAGTGCGGGACTGCGA
+HWI-EAS443:3:84:25:1355#0/1
`_`^aa¥a`aaa^_a`^`[a____`]UTPXYYYYTSTRUXW
@HWI-EAS443:3:84:265:169#0/1
GGGGACGTAGTGTGGTAATGAAACGAAAACGGGACTCTA
+HWI-EAS443:3:84:265:169#0/1
aaaa_aaZ¥^Za_aa^T¥R`[^`^`^WV]XZ^_[WZWWVW
@HWI-EAS443:3:84:269:573#0/1
GTCAATGAGGAAAATTGCATCCTACTCTGTTCTGGTGGAG
+HWI-EAS443:3:84:269:573#0/1
a`aa[ab`baaX^__a`_]`_ZSZ`^¥W__a¥W[QQ_
@HWI-EAS443:3:84:352:1288#0/1
ATGGTATTCTCACAAGAGGATTGCATGATCAAGGCAGTTA
+HWI-EAS443:3:84:352:1288#0/1
`__bZaaaaaaa`T^a_Wa`^a_b`a^_Yb`^aaaaaG[_
@HWI-EAS443:3:84:353:1026#0/1
ATCATTCTCATTCTCCTCCTGGAGTGACATCTGCTCC
+HWI-EAS443:3:84:353:1026#0/1
`[[[Z_a`aa````__a`aa¥a[Z^¥a[Q`__Z^^¥^W_
@HWI-EAS443:3:84:386:1237#0/1
TCCCGTTTTTCGTTTCATTACCAACTACTGCCCCCTTGCC
+HWI-EAS443:3:84:386:1237#0/1
aabb`_`aabbaaaaaaa`_`aabbaaaa`aa_a`aaa^`_`_
@HWI-EAS443:3:84:387:426#0/1
GGATGATGGCAATGAGATACCCAATTACAGCAGACAAGAG
+HWI-EAS443:3:84:387:426#0/1
aa_ab^a¥^X`aa]a`]^aa__a_aa____`_a`__`a¥a

@HWI-EAS443:3:84:396:1176#0/1
ATCCTTACTCCTCCAATCTGTGTGCTGTGGCACATTTCCA
+HWI-EAS443:3:84:396:1176#0/1
aaaa_a]`_a`aa¥a[[____Z`Q``__¥^T`_V_¥_¥_^_
@HWI-EAS443:3:84:434:1219#0/1
CTTGTTTTACGGACCAATTCTCTTTCTAGCATGTACGCCA
+HWI-EAS443:3:84:434:1219#0/1
aba` [[]aZ^W[a_Qaa]aaaab``aa]^a_`a]aa_`a`
@HWI-EAS443:3:84:45:1120#0/1
AGGGGACGTAGTGTGGTAATGAAACGAAAACGGGACTCT
+HWI-EAS443:3:84:45:1120#0/1
S¥Za¥S¥a`X`_]_X¥ZTOZ__W]^Z_¥Z¥SZ[UV¥Z_X]V
@HWI-EAS443:3:84:473:709#0/1
ATCCTACTCTGTTCTGGTGGAGCAGCAGCAAAGGGGAGAA
+HWI-EAS443:3:84:473:709#0/1
aaabaaaaaab`aaaabR_a_a`aa[`````__aaaa_aS_
@HWI-EAS443:3:84:47:638#0/1
ATTACCAACACTACGTCCCCTTGCCCAATTAGCACATTAG
+HWI-EAS443:3:84:47:638#0/1
`[``_a]K_a`Z`a^a```ZTZ``aXSUYU[`Za`Y[¥X
@HWI-EAS443:3:84:482:294#0/1
CTGGGGTGGAGTCTGCTGTCCTGAGAGGATTTCTCATTTT
+HWI-EAS443:3:84:482:294#0/1
aa_abbUb`aaab`a]^b_aa`a^a`aa_a`^a_] [````_
@HWI-EAS443:3:84:492:1301#0/1
CACTCGGTCTGATCCAGCATCGTTTGTGTTTGCTCCAGAGG
+HWI-EAS443:3:84:492:1301#0/1
¥V_]aa`aa[aaa`]^aa`a`a^`^_¥aa_¥_[[_]YU¥¥
@HWI-EAS443:3:84:494:707#0/1
CCATTGATAAGTGTGACTAGCACTGACTCAGGGCCATTG
+HWI-EAS443:3:84:494:707#0/1
aa`aabaa]]`Ua[`a`_`__aa`_a_a_aV]__a`_`_`
@HWI-EAS443:3:84:507:1158#0/1
GTACTCTTATTTTCAGTGTGTTGGAGGTTGCCCGTTAGCAC
+HWI-EAS443:3:84:507:1158#0/1
a^X]]`U¥`^`ZaZ_ZX¥W]^a_P¥_]aYaa¥^a¥_T_V[
@HWI-EAS443:3:84:561:248#0/1
GGAGGTTGCCCGTTAGCACTTCTTCTTCTTCTTCTGACTGA
+HWI-EAS443:3:84:561:248#0/1
ababb_aabaa`abaaa_aaa`bbaab`baaaaaa__aa_
@HWI-EAS443:3:84:585:1871#0/1
GTTGAAACATGGTACCTTCGGCCCTGTCCACTTCAGAAAT
+HWI-EAS443:3:84:585:1871#0/1
aQ`_`YWa]I]SX_XIT[`a_]L^^`RW]]WHY^[QX_TK
@HWI-EAS443:3:84:588:1154#0/1
AGTTCTTGAAAAGGATGCAGGTGCATTGACTGAAGATCCA
+HWI-EAS443:3:84:588:1154#0/1
`[^[a_aa^a^`]a]^a`a``````^YW]_a[``_]]]_aXa
@HWI-EAS443:3:84:589:723#0/1
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+HWI-EAS443:3:84:589:723#0/1
aaaG_aa`a`aaa_aYaa____`V`a^_[a``a¥V_RYUR
@HWI-EAS443:3:84:589:728#0/1
ATGTGTACTTTTTGATTATGGCCATATGGTCCACAGTGGT
+HWI-EAS443:3:84:589:728#0/1
¥aa[_Y¥^a`bbba`][_¥`b`[XOW¥XN_¥FRWZN_]P
@HWI-EAS443:3:84:626:1544#0/1
GAATAAAAGAAGACTGAGAGATCTAATGTCGCAGTCCCGCAC
+HWI-EAS443:3:84:626:1544#0/1
[XX`_¥Z¥Ka[]_0^U`abaa`_]Wa`baa^aa_H_[a
@HWI-EAS443:3:84:639:364#0/1
ACTTGTGTGGGCCATTCTATTCCACCATGTTACGGCC
+HWI-EAS443:3:84:639:364#0/1
^a]VaW¥ZSSZQ00ZFVUQO`_R[Y¥ZUQWZaUIZMZYU]
@HWI-EAS443:3:84:640:999#0/1
GTCCCGTTTTCGTTTCATTACCAACTACGTCCCTTGC
+HWI-EAS443:3:84:640:999#0/1
_J_NZ_Saaa`_[a^_aY[_a]a`[ba_[a`_]_^a`^¥_^
@HWI-EAS443:3:84:67:1702#0/1
ATCTGCTCCCAGCACGTCCCTTGGGTTAAGTGCAACTT
+HWI-EAS443:3:84:67:1702#0/1
_`b_Y`_aaaZF^`^[]aa]`[LRY__¥VS^`^WYYQV
@HWI-EAS443:3:84:693:411#0/1
GTCCCGTTTTCGTTTCATTACCAACTACGTCCCTTGC
+HWI-EAS443:3:84:693:411#0/1
]aaa`_[aabab^a_Wa]baaaaa_aa_a`][a`_`¥^_X
@HWI-EAS443:3:84:726:1842#0/1
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+HWI-EAS443:3:84:726:1842#0/1
aa_¥a`¥aS`[__Y¥YUTU]GNSPPYSVSRQU¥Q`¥VTWW
@HWI-EAS443:3:84:799:1519#0/1
CTAATGTGCTAATTGGGCAAGGGACGTAGTGTGGTAAT
+HWI-EAS443:3:84:799:1519#0/1
^¥]abaabb``¥Sab]`[a`abVG]`a^`_`^a_bbWaaV
@HWI-EAS443:3:84:812:770#0/1
ATCTAATGTCGCAGTCCCGCACTCGCGAGATACTCACTAA
+HWI-EAS443:3:84:812:770#0/1
`X`aa^`V^]aV[^X`_ZSNZ^V`¥ZVXTV^^__YZ_[[
@HWI-EAS443:3:84:816:1193#0/1
ACAGCACACAGATTGGAGGAGTAAGGATGGTGGACATCCT
+HWI-EAS443:3:84:816:1193#0/1
aaaaX¥W`]Z]]X`_[V`^aY```VRQ`VNT[WYQWXV]
@HWI-EAS443:3:84:822:573#0/1
GTCCACAGTGGTCTTAGTGAGTATCTCGCGAGTGCGGGAC
+HWI-EAS443:3:84:822:573#0/1
aababbbbaa`a__aaaaVaaa_aaa`¥`[a__Z`TV_¥¥R
@HWI-EAS443:3:84:835:944#0/1
CTGCTGTAATTGGGTATCTCATTGCCATCATCCACTTCAT
+HWI-EAS443:3:84:835:944#0/1
abbaa¥V¥__`^S]JZ]]_ZZ¥aa¥TWYP_X]]^_YZ¥`X

@HWI-EAS443:3:84:873:1899#0/1
GGCGTACATGCTAGAAAGAGAATTGGTCCGTAACAAGG
+HWI-EAS443:3:84:873:1899#0/1
a`aa]a`_a^a^_a^aS`__a`__[Z`_aV```a^a_^R
@HWI-EAS443:3:84:873:2032#0/1
ACTGAAGATCCAGATGAAGGCACATCTGGGGTGGAGTCTG
+HWI-EAS443:3:84:873:2032#0/1
Kaa¥a¥K_Xa`_XZT^W[WRa¥a_a_^[_aPYa¥_aUTV[
@HWI-EAS443:3:84:927:1655#0/1
GTCCCCGTTTTCGTTTCATTACCAACTACGTCCCCCTTGC
+HWI-EAS443:3:84:927:1655#0/1
]FTNT[XXU]P_KZJJYTRQPQXVLWQRS^NNMNVBBBB
@HWI-EAS443:3:84:939:540#0/1
GGGGACGTAGTGTGGTAATGAAACGAAAACGGGACTCTA
+HWI-EAS443:3:84:939:540#0/1
aabb`bb_ab_bbbab]^_a`aaa]ba]aa_aaa^____`
@HWI-EAS443:3:84:958:1937#0/1
GTGTCAGCAGACCCATTAGCATCTCTCTTGAAATGTGCC
+HWI-EAS443:3:84:958:1937#0/1
]M]Y[abbbZ¥TZa`Z`baV¥ba^X^ab^W¥baba^U[aa
@HWI-EAS443:3:84:977:1281#0/1
AAAAGAAGTGGAGATCTAATGTCGCAGTCCCGCACTCGC
+HWI-EAS443:3:84:977:1281#0/1
aabY`aa`a[a`aaa__a__`^aa¥^`Z_]`_`[`]_]]
@HWI-EAS443:3:84:977:797#0/1
AGGATGTCCACCATCCTTACTCCTCCAATCTGTGTGCTGT
+HWI-EAS443:3:84:977:797#0/1
T¥¥Sa`a_aX][Z`USTWaRTX[[SKZ__a`^^``]SaaY
@HWI-EAS443:3:85:1007:1300#0/1
CCCCGTTTTCGTTTCATTACCAACTACGTCCCCCTTGCCC
+HWI-EAS443:3:85:1007:1300#0/1
a_aa_ba`aa_abaabba`a^bab`abZJ`]^aa`_aa_
@HWI-EAS443:3:85:100:556#0/1
ATGTACTCTTATTTTCAGTGTGGAGGTTGCCCGTTAGC
+HWI-EAS443:3:85:100:556#0/1
abaSY`aabb^)`bbaZ`Yb¥bab`ZaaY[]a`^`^_][
@HWI-EAS443:3:85:1011:1391#0/1
ATGCAATTTTCCTCATTGACTGTGAATGTGAGAGGATCAG
+HWI-EAS443:3:85:1011:1391#0/1
`YPV`[_¥_^WY_``_XX_¥]aURHOZ]FWV]¥]VOQ[UV
@HWI-EAS443:3:85:1021:760#0/1
CTGCTGTAATTGGGTATCTCATTGCCATCATCCACTTCAT
+HWI-EAS443:3:85:1021:760#0/1
a```bba`aababa_baaba_baa`_]aabb_]aabaaaa
@HWI-EAS443:3:85:1049:1520#0/1
GAATAAAAGAAGTGGAGATCTAATGTCGCAGTCCCGCAC
+HWI-EAS443:3:85:1049:1520#0/1
abbabbbb]`aabaa¥baba`bbaa_]```ba_a_a_^_
@HWI-EAS443:3:85:1067:464#0/1
GTCCCCGTTTTCGTTTCATTACCAACTACGTCCCCCTTGC

+HWI-EAS443:3:85:1067:464#0/1
a__`ab`aaa_b`_`_aa`a`^`a`_`^`a`_`_`¥^¥_a]a_
@HWI-EAS443:3:85:1068:718#0/1
TTGCTCCAGAGGGTTTGCCTTGTTCATTCCTCTCTGGAA
+HWI-EAS443:3:85:1068:718#0/1
]VX__`_]T[¥ZS_¥_`^P]bb`a]Y`[EZ^a][`_]U[
@HWI-EAS443:3:85:1084:450#0/1
CTCAGAATGAAGTGGATGATGGCAATGAGATACCCAATTA
+HWI-EAS443:3:85:1084:450#0/1
abbbbbbbbaababbabbaabbaaaababababababaaaa
@HWI-EAS443:3:85:1091:664#0/1
GGGACGTAGTGTGGTAATGAAACGAAACGGGACTCTAG
+HWI-EAS443:3:85:1091:664#0/1
aa`_`b_ab_b[aa_Z_`^`a_a_S^]^`_`_`_`_]Y_^
@HWI-EAS443:3:85:1100:1441#0/1
AAAAGAACTGAGAGATCTAATGTCGCAGTCCCGCACTCGC
+HWI-EAS443:3:85:1100:1441#0/1
abaaaa^`Y]ab`_`_aa`_a]a`W^[W_^Z¥T_V_^Y
@HWI-EAS443:3:85:1120:736#0/1
CAGACCCATTAGCATCTCTCTTGAAATGTGCCACAGCAC
+HWI-EAS443:3:85:1120:736#0/1
_Z^Y`Z_UZ¥^`a^aR^`a`_`_`Z_a]^`[LT]RXYaaVTa
@HWI-EAS443:3:85:1121:204#0/1
AAAGAACTGAGAGATCTAATGTCGCAGTCCCGCACTCGCG
+HWI-EAS443:3:85:1121:204#0/1
a^]a¥`aa`aa^`a__aa`aa__`_`^¥ZU^VZV^^W^
@HWI-EAS443:3:85:1166:1701#0/1
GCCATATCTCTTGCTTTTGGCCAAAATGAGAAATCCT
+HWI-EAS443:3:85:1166:1701#0/1
``_`¥TYX^^Q]^`^Z^_SUZVra^`_`_`_`_`_]XUX
@HWI-EAS443:3:85:1205:70#0/1
GAACTGAGAGATCTAATGTCGCAGTCCCGCACTCGCGAGA
+HWI-EAS443:3:85:1205:70#0/1
aaaKaaaa`_a]a`_`aa`_a`_a¥SVTZ[YX¥T`]_U`W
@HWI-EAS443:3:85:1255:826#0/1
GGAAAAGCACTTTTGCATCTTTTGGAAATGCCTCAAGAG
+HWI-EAS443:3:85:1255:826#0/1
abaa`ab`a_abaaaaa_babbaabaaaa]_aaa¥a`a
@HWI-EAS443:3:85:1269:814#0/1
GGTCTTAGTGAGTATCTCGCGAGTGGGGACTGCGACATT
+HWI-EAS443:3:85:1269:814#0/1
`a_aa`_U^ab_b^`¥`a^_V^¥`Ha_]¥NX[Xa`_a`¥
@HWI-EAS443:3:85:1274:89#0/1
ATGATCCGCTTGTCCTTTTGAAGTGAACCCACCAAAACT
+HWI-EAS443:3:85:1274:89#0/1
a`aaa`abaaaa_]aaaa`_a`_W`_`_`_`_`]^`^`_Z_
@HWI-EAS443:3:85:127:628#0/1
AAAAGAACTGAGAGATCTAATGTCGCAGTCCCGCACTCGC
+HWI-EAS443:3:85:127:628#0/1
aaS`a^JUa_UUTVVS^]Y^[YPHZPWBBBBBBBBBBBBB

@HWI-EAS443:3:85:1299:1475#0/1
AAAGAAGTCTAATGTCGCAGTCCCGCACTCGCG
+HWI-EAS443:3:85:1299:1475#0/1
`^^ba` `aaaaaaaaabaaa` ZT__aaZ^Z____`]Z_]Y[
@HWI-EAS443:3:85:1315:209#0/1
GGGACGTAGTGTGGTAATGAAACGAAAACGGGACTCTAG
+HWI-EAS443:3:85:1315:209#0/1
`a_]`b[___T_]``_H¥W^a_a_U]R]^]OX¥_LLVV^¥[
@HWI-EAS443:3:85:1371:1376#0/1
AAAAGAAGTCTAATGTCGCAGTCCCGCACTCGCG
+HWI-EAS443:3:85:1371:1376#0/1
a`bb_`aaa^`bab`aaaaabb`X`_a`__^a_`____V¥^
@HWI-EAS443:3:85:1396:686#0/1
CCCGTTTTCGTTTTATTACCAACTACGTCCCCTTGCCC
+HWI-EAS443:3:85:1396:686#0/1
abY` `bababaa`aabbaaa]`_abaaW__UUZYa_aNRV
@HWI-EAS443:3:85:1397:1893#0/1
CAGTCAATGCACCTGCATCCTTTCCAAGAAGTGTAAAGTCG
+HWI-EAS443:3:85:1397:1893#0/1
]b`_`bbbaWa_babbbba`bbaa`abaabaababbbbaYa
@HWI-EAS443:3:85:143:405#0/1
CCGATTTTTAAGGGTTAGAGATCAAAGAGGGAACGTACTA
+HWI-EAS443:3:85:143:405#0/1
abaZ`bbbb]bbbaabbb`bbbabaababababab_a`ab
@HWI-EAS443:3:85:1443:881#0/1
AACGACTTACAGTTCTTGAAAGGATGCAGGTGCATTGAC
+HWI-EAS443:3:85:1443:881#0/1
a[W`^_baa`][`V`aa¥_S_aaa`aUaW_X_R_]`^`Z
@HWI-EAS443:3:85:1491:542#0/1
AAGAAGTCTAATGTCGCAGTCCCGCACTCGCGA
+HWI-EAS443:3:85:1491:542#0/1
aab`ba`a` `]ba^Xba[`aabb[aaa__[aY[_aabZ`_`
@HWI-EAS443:3:85:1492:1043#0/1
CCCGTTTTCGTTTTATTACCAACTACGTCCCCTTGCCC
+HWI-EAS443:3:85:1492:1043#0/1
aaababbbbbb`ab_bbaaaaa`aa_b^____`^^a`a^YV
@HWI-EAS443:3:85:1524:845#0/1
GTCCCGTTTTCGTTTTATTACCAACTACGTCCCCTTG
+HWI-EAS443:3:85:1524:845#0/1
^EW^]a¥a[`Z_X`a_]X`UY]]^[W__PX_YWVZRZ^X
@HWI-EAS443:3:85:154:1091#0/1
TTCTTCTTCTTCTTGACTGATGATCCGCTTGTCTTTTG
+HWI-EAS443:3:85:154:1091#0/1
abaabb_babaabaaa_bbbbaababba`aaY¥aaaaab`
@HWI-EAS443:3:85:1728:1386#0/1
CTAATGTCGCAGTCCCGCACTCGCGAGATACTACTAAGA
+HWI-EAS443:3:85:1728:1386#0/1
`bbabb¥aa`aa`Naa` `_a` `a^^^`__`¥aV_]`__`¥
@HWI-EAS443:3:85:1737:618#0/1
AATGTCGCAGTCCCGCACTCGCGAGATACTACTAAGACC

+HWI-EAS443:3:85:1737:618#0/1
`aa` ``__aa^_aYR]__¥Z`aV`¥¥V¥_^^X^^_¥^UW
@HWI-EAS443:3:85:1740:1597#0/1
AAAGAAGTCTAATGTCGAGTCCCCTCGCG
+HWI-EAS443:3:85:1740:1597#0/1
aaaaVRXaaa`a__Za`^aa^Y_]__UU_[^0]_]¥`R_
@HWI-EAS443:3:85:1759:765#0/1
CAAGGACAAACCCTCTGGAGCAAACAAACGATGCTGGAT
+HWI-EAS443:3:85:1759:765#0/1
[b`bbabb`Zaaabaa_baabbab`bbaa`aba_a`aY[
@HWI-EAS443:3:85:1777:1511#0/1
CGCGAGATACTACTAAGACCACTGTGGACCATATGGCCA
+HWI-EAS443:3:85:1777:1511#0/1
`b¥_ab_`^a]`a_abaa_`_a`^]S`_`_aR^`]a^P`_
@HWI-EAS443:3:85:183:763#0/1
GCTGTAATTGGGTATCTCATTGCCATCATCCACTTCATTC
+HWI-EAS443:3:85:183:763#0/1
abbb_aaaabaa]aaaaaa]`aaa_`a`aQJ^a`a`a__
@HWI-EAS443:3:85:186:1236#0/1
GGACGTAGTGTGGTAATGAAACGAAACGGGACTCTAGC
+HWI-EAS443:3:85:186:1236#0/1
^`]b]Y`a¥aZbaa¥[bZ_Zbb]_¥_Y`S]Z]_]`^¥^W]
@HWI-EAS443:3:85:292:634#0/1
AAAAGAAGTCTAATGTCGAGTCCCCTCGCG
+HWI-EAS443:3:85:292:634#0/1
aabb`X^Z_aZN_]a`ZPW^S_V¥[bSSQ^]`KTK``_
@HWI-EAS443:3:85:321:283#0/1
GTGGAGTCTGCTGTCTGAGAGGATTTCTCATTTTGGGCA
+HWI-EAS443:3:85:321:283#0/1
a`]bR`^¥_aa]¥]X[P[N]^aTIR_]UV^^[a^^_]YYV
@HWI-EAS443:3:85:332:1248#0/1
CGCACTCGGAGATACTACTAAGACCACTGTGGACCATA
+HWI-EAS443:3:85:332:1248#0/1
a`b_``bUba`^`_aaabaaaa`a_aa``a]__[aaa_`
@HWI-EAS443:3:85:347:695#0/1
GCCCTATTGACAAAGTTCAGATCGCCCCTAACTGCCTTGA
+HWI-EAS443:3:85:347:695#0/1
abba_Z_aaaa`QZa[aaaa_a_aa_``a`_`a`a__]_
@HWI-EAS443:3:85:353:1617#0/1
GCTCCCTTGATGGTGGCGTACATGCTAGAAAGAGAATTGG
+HWI-EAS443:3:85:353:1617#0/1
aa_aa`[Z]¥^VFSZa`U]^T^`_`_]_]____]¥[¥Y]
@HWI-EAS443:3:85:384:1230#0/1
GTCCCGTTTTCGTTTTATTACCAACTACGTCCCTTGC
+HWI-EAS443:3:85:384:1230#0/1
aabbab``a[^_]a`[aaa`a`aa`aaa`a_^`_`a`_]_
@HWI-EAS443:3:85:385:561#0/1
ATTCTCCAGTATTCAATTACAACAAGGCAACCAACGACT
+HWI-EAS443:3:85:385:561#0/1
]_`abb_`[W¥babb^baabb]_WVY`bbaabbbbaa¥`a

@HWI-EAS443:3:85:397:1604#0/1
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+HWI-EAS443:3:85:42:821#0/1
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+HWI-EAS443:3:85:531:833#0/1
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+HWI-EAS443:3:85:551:1034#0/1
ab_`aa_`aaab_`_`[a`bb¥M]a`^_X``¥baa^a¥Y]a
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+HWI-EAS443:3:85:576:812#0/1
aaaaaa`a_`aa`a`_____]`[a]a_`^`^`^`____Y^]]^_`
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a]a_`^PQVaa_aaaa[^0^_a_Y]`_`_]`U`_TX^[]P
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+HWI-EAS443:3:85:680:483#0/1
a_b`^_U`b_`bY__`]¥^a^`aaZX^Uaa`_aZZZX_W
@HWI-EAS443:3:85:726:1341#0/1
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+HWI-EAS443:3:85:726:1341#0/1
`_abaa`aba_`]`bbaaa`aaa_aaa_a_aaaaaa¥a¥`
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+HWI-EAS443:3:85:731:783#0/1
a_`^a]a¥aaaaaa[aaaa_aa[_aa`X_[_¥`X`^`____
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+HWI-EAS443:3:85:795:283#0/1
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+HWI-EAS443:3:85:803:1460#0/1
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+HWI-EAS443:3:85:850:1081#0/1
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+HWI-EAS443:3:85:850:495#0/1
aaaa`b__b_a`aa`R_[_a^aa_a^a_`_a_]]^Y_^
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@HWI-EAS443:3:85:918:946#0/1
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+HWI-EAS443:3:85:918:946#0/1
a_`Z^aZ_`]Xb^^a[][_`_`____[¥V]`[¥X_]^^ZWZV
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+HWI-EAS443:3:85:947:1720#0/1
aabb^`aaaa`_] [_X^ZUaaa[a^_aaV[_]`a`_¥____
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+HWI-EAS443:3:86:1020:739#0/1
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+HWI-EAS443:3:86:1068:208#0/1
ab]^aa_]Xaba`aa`b^aa_ba__XZ_b_X`OWRJQ¥N
@HWI-EAS443:3:86:107:1107#0/1
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+HWI-EAS443:3:86:1131:1046#0/1
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+HWI-EAS443:3:86:1132:39#0/1
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@HWI-EAS443:3:86:1139:379#0/1
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+HWI-EAS443:3:86:1139:379#0/1
aabaabb_bZaY]a`]aaa[NUa`a`a^ba```Z_____`
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+HWI-EAS443:3:86:1162:604#0/1
_ab]ab_aaabaabb_aaab`a`b`aaa`aaa`^¥_`[a
@HWI-EAS443:3:86:117:725#0/1
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+HWI-EAS443:3:86:117:725#0/1
`a[aY`aa`aa[a`a```_aaa__^a^a__a`^[_[_^_`^
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+HWI-EAS443:3:86:1192:876#0/1
^^XW`bbbaa]T¥ab¥¥^Zaabb`a_]a^aa_a`aaaa`X
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+HWI-EAS443:3:86:148:1575#0/1
aa`a`aaaaaaa``aa`aaa_a^]``_a_]`0a_]a^__^
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+HWI-EAS443:3:86:1541:312#0/1
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+HWI-EAS443:3:86:1561:1096#0/1
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+HWI-EAS443:3:86:158:435#0/1
¥^]^^`R``_]_Wa]Z]Z]a`_`[_[^aUT^L][Y¥WDH¥VT
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+HWI-EAS443:3:86:1670:1061#0/1
aaa`ba_a]ba_a`aabaa``aa]RaV`_]XPP_UZVYS_
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+HWI-EAS443:3:86:1671:1198#0/1
a_bbabb`baabbba`aa`a]`VaY]^a`a_`a_`a_^_Z
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+HWI-EAS443:3:86:172:1875#0/1
W_`a`^`^`[^abb_W[bbba^^`a`V`baaabba]`_`a`
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+HWI-EAS443:3:86:257:366#0/1
`^a]W]^_¥_a`^bY_Y`¥aaaaa^]^^a]aaa`a`^][_
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+HWI-EAS443:3:86:34:461#0/1
aaaa`a^ba`aa¥_aa`_`____RY_^`a`_`_^_]__^^_
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+HWI-EAS443:3:86:353:30#0/1
````\_M\_R\_X`\_0[\_SaWaZ¥\_Z¥Z`\_]Z^Z]F[ZH^X\_]W  
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+HWI-EAS443:3:86:371:359#0/1  
¥H\_Saa`]`^\_^V]^a[aaa\_```aaY^[J\_NZ[S\_\_^\_I  
@HWI-EAS443:3:86:421:1252#0/1  
TGAGTATTGACCGATTTTTAAGGGTTAGAGATCAAAGAGG  
+HWI-EAS443:3:86:421:1252#0/1  
`aaa¥\_^`\_]Ya\_[aaaa^a[]ZW\_a\_]a\_\_\_^\_^^\_aW



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+HWI-EAS443:3:86:424:683#0/1  
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+HWI-EAS443:3:86:450:1007#0/1  
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¥¥a^H¥¥WZWSZ\_a^[]a]aV0]]XSY¥]a`¥[]Ya[YV  
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+HWI-EAS443:3:86:482:1165#0/1  
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+HWI-EAS443:3:86:483:1831#0/1  
`\_¥X`\_`\_aabababa[aaa^`XaaZ]]`X`^`[^`^[\_  
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GGTGGTTCACTTTCAAAGGACAAGCGGATCATCAGTCA  
+HWI-EAS443:3:86:496:1347#0/1  
SaMIW]JV`]V^]a`^Za]aa^¥¥a```]aaa¥\_`^¥^SV^  
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+HWI-EAS443:3:86:511:1124#0/1  
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+HWI-EAS443:3:86:516:1132#0/1  
aa\_a`aababa`aaaaa\_\_a\_aaaa]Xaa^^`^`WX¥U  
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+HWI-EAS443:3:86:530:906#0/1  
a¥aaaaa¥a`^Ua`a]a^`^R]V^VU¥]¥¥¥^`^¥\_¥]¥  
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aa`[`aaa`^aaaX\_V\_a```a[a^`a\_```^````]¥^`  
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+HWI-EAS443:3:86:598:523#0/1  
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+HWI-EAS443:3:86:613:353#0/1  
abaababa]ba`abaaaa\_aa\_]`ba\_`aaaaaaaa```\_  
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+HWI-EAS443:3:86:620:1750#0/1  
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+HWI-EAS443:3:86:649:663#0/1  
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+HWI-EAS443:3:86:669:2045#0/1  
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+HWI-EAS443:3:86:675:662#0/1  
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aa`a`aaaa¥`a`a``aaa^aa\_aa^`^a`]]\_`^`\_]`^  
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+HWI-EAS443:3:86:708:1277#0/1  
`a\_\_¥X\_aXT¥^Z`b``a^\_]`\_¥¥\_`Y¥aaa`a`a\_V]`

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^aaabaaa\_ba\_a^^`a]`a`aa¥\_¥`\_`\_\_\_a[YZZW\_  
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+HWI-EAS443:3:86:741:109#0/1  
a^]S]^`^`^`a¥LZY[``\_\_\_`a][^\_]X]SV¥V^^VO]MP  
@HWI-EAS443:3:86:768:1346#0/1  
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ab]\_````aabbbaaY`]Z[^]a]]\_``]T]`X]``^\_[[`  
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]]YK¥^`bbb\_b[ba`b^aa`bb\_bV\_b[[baaXb`\_X`\_  
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+HWI-EAS443:3:86:798:263#0/1  
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@HWI-EAS443:3:86:828:520#0/1  
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+HWI-EAS443:3:86:828:520#0/1  
a\_]\_aa]¥WY``[a^a`U`a^`aZ^XU\_XQ]UZ^^]VU^  
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+HWI-EAS443:3:86:846:1357#0/1  
`]a]^b¥Ya^XV[LR\_a`X^[^V`\_`¥^^Ya[^Z¥[¥[  
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\_¥P¥W\_]aZ]X^`\_a`Xaa\_^¥`R\_\_V\_N[ZZGYY¥NVZY  
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ab]ZLR]]^`\_UZ\_\_^\_TXXP]¥Y[]`aYa\_Y]a`]X]ZP  
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a\_^`aXaaaa`^`[¥aabaaaa\_]`aaba`^a^`^]]XV  
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+HWI-EAS443:3:87:1002:527#0/1  
Q\_\_\_U¥^\_ZZ\_Q\_\_\_ZaV[F[ZORYZTXaZW]\_`W^^¥ZW^  
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+HWI-EAS443:3:87:1010:1603#0/1  
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a`\_\_b\_aba]b^aa`ba^a^X`a^AT`\_Y[^\_^VW^[\_a  
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CTCGCGAGATACTCACTAAGACCACTGTGGACCATATGGC  
+HWI-EAS443:3:87:1049:1815#0/1  
`\_]^[^Y^`¥¥[]XR`a]¥QZX¥\_\_`X`]]Y[^`^W]YY  
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a`¥\_a^[¥aaaa`a[\_aaaaSQ¥`\_a\_\_\_\_`]Q]ZW^[\_Z  
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+HWI-EAS443:3:87:1114:1454#0/1  
`Y`baa]YOW]`aaa`a`][aa¥RY^aa\_\_baaa```S¥

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aba\_Z\_a\$Xaa`aQabb`baaaaa`aaa^a]LZa^^Y^`  
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a`a\_b]aaa``aZa¥a^`aa\_`a`\_`a¥¥aZ\_\_¥¥V¥  
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+HWI-EAS443:3:87:1282:798#0/1  
aa\_NI^aaaUa\_a`aY¥ZTU^`Z\_UZ\_a\_\_\_\_[]G]a`[a  
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aaaa[\_aaa`aab\_a\_aaZaa¥¥a`\_\_^\_\_^\_Y¥\_¥]W^  
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+HWI-EAS443:3:87:1311:1823#0/1  
a`aY^aa`aaaUa]`aaaGaaa``]a^`aXVXI^]O\_Z\_Q  
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+HWI-EAS443:3:87:1356:427#0/1  
`a`a`]^a^a`¥]a\_^^^`^TR¥\_\_`Y`¥]^ZP\_[W\_T[¥`  
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+HWI-EAS443:3:87:1373:346#0/1  
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+HWI-EAS443:3:87:1382:1005#0/1  
^H^`^`^`^`aa\_aa`a^baWaaU]¥¥[¥RU[Z^YPZ][YS`  
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+HWI-EAS443:3:87:1439:793#0/1  
I¥a\_`bbb`baaTa```]abbab]b`babb`][bba`a`]  
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+HWI-EAS443:3:87:226:405#0/1  
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+HWI-EAS443:3:87:260:1500#0/1  
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+HWI-EAS443:3:87:271:1545#0/1  
Z[\_b¥]X`aX`T`Z`Vaaa\_`\_]YaT^XVZ\_`\_`SYJYX]]^  
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+HWI-EAS443:3:87:304:640#0/1  
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+HWI-EAS443:3:87:304:66#0/1  
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+HWI-EAS443:3:87:338:907#0/1  
a`aa]]^\_aaQ]`\_`\_`\_`a`\_`\_`^`\_`\_`Y^]`\_`^YV¥\_W^  
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+HWI-EAS443:3:87:342:926#0/1  
aaaaa`aaa^a\_U`a^`Y\_aX\_Ya]\_W`\_]W\_]`\_`^Z^^^]  
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+HWI-EAS443:3:87:356:1281#0/1  
a`UXGZKb\_]a¥Yb[\_`S[\_``[SZR\_`WPSG`\_`\_a]G\_Ya  
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+HWI-EAS443:3:87:365:83#0/1  
\_Z^a[¥^ab\_bYa\_a]a\_aaa[\_a\_\_aT\_\_¥\_ZQ\_W¥\_W\_  
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+HWI-EAS443:3:87:400:1128#0/1  
aXa[ ` \_PZ[]\_]¥\_\_\_`a`[^]^^`Z¥^\_a\_`V^Z`^UQU[  
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+HWI-EAS443:3:87:442:1435#0/1  
Y\_\_a`U[ `T`a`]aabaa]^UGZXa\_X\_\_a¥HZGTSTL]Z  
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+HWI-EAS443:3:87:481:1299#0/1  
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+HWI-EAS443:3:87:508:454#0/1  
aa^0]\_a^Z`\_]\_]\_b]`]^`aYaaaa\_`b]`aa\_\_Z[\_a[\_  
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aaaa\_aaaa`a`Y[ `\_\_aaaaaaaa\_\_a\_aaaaa`\_a\_\_`  
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a\_bb[aabbabababababab`baaa`ba\_aa`\_baaa\_`a  
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+HWI-EAS443:3:87:539:1436#0/1  
aaaU` ``aaaY[ba\_`^`aa\_\_^[ZX\_^YY\_\_VZS^^U`\_¥  
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+HWI-EAS443:3:87:54:774#0/1  
a`aab`Z\_aaa\_a\_a]aa`\_\_YX]Z`^V^\_¥\_]\_^]`V`]  
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+HWI-EAS443:3:87:584:827#0/1  
abbbbaaaa`VZ`babaa]aaa`\_\_^`V[a^a` `¥`aa`]  
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+HWI-EAS443:3:87:588:150#0/1  
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GTCCCCGTTTTCGTTTCATTACCAACTACGTCCCCCTTGC  
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`0``]aV``a^a^``\_``[^``a^[^^^\_]V¥^VS¥W^Y  
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GTTGCCCGTTAGCACTTCTTCTTTCTTGGACTGATGAT  
+HWI-EAS443:3:87:639:433#0/1  
aa\_aa]aaX]^`a\_\_^YZ\_ZY`a]`\_¥Y`\_\_¥V^\_[Z^a^  
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+HWI-EAS443:3:87:662:1217#0/1  
a]M]`\_RZaaaa`a]`¥LZa\_\_a\_\_\_[``\_\_a\_\_`aXY\_  
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+HWI-EAS443:3:87:66:642#0/1  
`Y\_a`V`a`\_[a\_aa\_[\_[Za]Z^^``\_[^X]^U¥^  
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aa[`abbb\_¥`¥`X[a\_[ZU`a]\_Z]`aaZ\_]^\_[]V^`  
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\_`babb[]]bbab[aaba[aab`ba\_aaa]ab`]¥ab\_a  
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+HWI-EAS443:3:87:702:761#0/1  
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+HWI-EAS443:3:87:70:149#0/1  
aa\_U]^aaaaaaa`aa`¥`aaUa\_\_\_`^¥]XWWWXYWW  
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^^Z\_[F[`a^¥^aa^TY\_Y\_]b^a\_`FTZSL]\_\_V^``\_  
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a`a`WTY`]PY\_\_\_\_^]RWW]P[`aUWFYT¥Z^¥U[W¥\_RM  
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+HWI-EAS443:3:87:784:568#0/1  
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GTCCTGAGAGGATTTCTCATTTTGGGCAAAGAAGACAAGA  
+HWI-EAS443:3:87:837:890#0/1  
aaaaaaZ[`Z[Taa\_a`aaa`\_a``\_¥¥UR[\_¥[^Z[\_^  
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+HWI-EAS443:3:87:856:1538#0/1  
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+HWI-EAS443:3:87:873:830#0/1  
ababbbabbbb`abba]abbaabaaa`a`abbabbab\_aa  
@HWI-EAS443:3:87:892:796#0/1  
CATATCTCTTGTCTTCTTTGCCAAAATGAGAAATCCTCT  
+HWI-EAS443:3:87:892:796#0/1  
abbbbbbbbaababbbbbbb`bbbabbbbbbaba\_\_b\_b  
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+HWI-EAS443:3:87:913:457#0/1  
aaa`babXabaaaa`a\_a`aaa^a\_\_aaa`\_ab]^^\_a\_X  
@HWI-EAS443:3:87:916:1560#0/1  
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+HWI-EAS443:3:87:916:1560#0/1  
aa`\_^b^^bb`^`aaaabaa\_aaaa\_aaaa\_\_^^\_`\_  
@HWI-EAS443:3:87:927:1898#0/1  
CCCGTTTTTCGTTTCATTACCAACTACGTCCCCTTGGCC  
+HWI-EAS443:3:87:927:1898#0/1  
abaa¥`bba`aa`[bbaba`bbaaaba\_a\_a¥^[a`a\_[]`  
@HWI-EAS443:3:87:941:1041#0/1  
CTCTTGTCTTCTTTGCCAAAATGAGAAATCCTCTCAGGA  
+HWI-EAS443:3:87:941:1041#0/1  
QZUU¥a``][¥[\_\_\_\_aU\_^`\_`b`b\_\_^\_abbbb\_bbb¥

@HWI-EAS443:3:88:1028:854#0/1  
TGGGTTCACTTTCAAAGGACAAGCGGATCATCAGTCAAG  
+HWI-EAS443:3:88:1028:854#0/1  
a`Z^[\_b`abaabYS`ab^`aa]¥Y^VYaa^\_]Ta\_\_a^a  
@HWI-EAS443:3:88:1039:306#0/1  
AGAGCAGCAGTGTGAGCAGACCCATTAGCATCTCTCTTGG  
+HWI-EAS443:3:88:1039:306#0/1  
]bbb`bb`\_aP\_Z\_¥^R^`U]\_]aaba`^Z``a[\_¥]````  
@HWI-EAS443:3:88:1115:1292#0/1  
TCGCGAGATACTACTAAGACCACTGTGGACCATATGGCC  
+HWI-EAS443:3:88:1115:1292#0/1  
`b]aW\_Wa`S`a¥]VZX```Z¥^aQaZa]Ya\_\_`^]a\_TU  
@HWI-EAS443:3:88:1122:1288#0/1  
AATGAACAAGGACAAACCCTCTGGAGCAAAACAAACGATG  
+HWI-EAS443:3:88:1122:1288#0/1  
[aa¥aZS[Ubab]W\_^\_]`Y^^`bRbabb^a`M[`^Xa  
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+HWI-EAS443:3:88:1128:1472#0/1  
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+HWI-EAS443:3:88:1177:581#0/1  
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@HWI-EAS443:3:88:1185:163#0/1  
GTCCCCTTTTCGTTTCATTACCAACTACGTCCCCTTGC  
+HWI-EAS443:3:88:1185:163#0/1  
aa\_a\_b\_aaa`a^ab`abaa\_]aaaa¥aaaa¥`¥U\_\_^^¥  
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+HWI-EAS443:3:88:1197:698#0/1  
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+HWI-EAS443:3:88:1199:52#0/1  
ab\_ba\_b\_b^babaabbaaba`aaaaabZaa^aU[aaa]W  
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GAATAATGGACATGATTCCAGAGAGGAATGAACAAGGACA  
+HWI-EAS443:3:88:1242:1022#0/1  
U\_^[\_M`^ZZ\_bb`bb``b]X¥a]^Z[```aWa\_aba`aa  
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+HWI-EAS443:3:88:1260:371#0/1  
aabaababaaaaa`¥ab`ba^aa\_a^`\_a^^`X`^\_aS  
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+HWI-EAS443:3:88:1284:280#0/1  
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+HWI-EAS443:3:88:1333:415#0/1  
a^aa`bbbbbb^P\_bTb`aa`aab`a\_`]\_\_`aa`aYT  
@HWI-EAS443:3:88:1352:155#0/1  
CAGAATGAAGTGGATGATGGCAATGAGATACCCAATTACA  
+HWI-EAS443:3:88:1352:155#0/1  
`ab¥\_Zb`bbY`¥abaa[^¥U\_UK¥`\_a]^YY`a``]]L¥  
@HWI-EAS443:3:88:1357:1721#0/1  
AGAGAATAAAAGAACTGAGAGATCTAATGTCGCAGTCCCG  
+HWI-EAS443:3:88:1357:1721#0/1  
a\_]bbbb[b]\_¥abb\_[\_aaaa`baaabXV`\_a`GW^00  
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+HWI-EAS443:3:88:1358:502#0/1  
^`b\_]`\_\_`a]b[`aaaZa`a]a[^aa\_Y`aa\_aaaXa  
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+HWI-EAS443:3:88:1372:84#0/1  
ab\_]abbSb`¥^abbbbX\_]S`H\_^G`N`S[NNa\_¥V  
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+HWI-EAS443:3:88:1393:867#0/1  
`[^Y\_b¥`aaZa[`\_RZa[`aV`^R`N]\_\_\_Z\_[[[^W^¥  
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+HWI-EAS443:3:88:1394:929#0/1  
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+HWI-EAS443:3:88:1405:1439#0/1  
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+HWI-EAS443:3:88:144:257#0/1  
¥¥\_aa]WRY¥a¥Z```XJU`a`]Z]\_VWWT]Z^Y``^`\_V  
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+HWI-EAS443:3:88:1502:902#0/1  
aa¥a^W`\_a]baaSQY¥\_]baQP`[aF[XXQR`abaaa\_]`  
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+HWI-EAS443:3:88:1513:147#0/1  
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@HWI-EAS443:3:88:1521:239#0/1  
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+HWI-EAS443:3:88:1521:239#0/1  
VbbbabUb`bb`abb\_bb^a\_bb`bVb[`bbbab`babab  
@HWI-EAS443:3:88:1535:466#0/1  
GTCTTAGTGAGTATCTCGCGAGTGC GGACTGCGACATTA  
+HWI-EAS443:3:88:1535:466#0/1  
``][a^``^^aa\_\_a^]G]``R]]`a`RHRWJ[GS[[[]]  
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+HWI-EAS443:3:88:1540:95#0/1  
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+HWI-EAS443:3:88:1567:215#0/1  
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+HWI-EAS443:3:88:1580:135#0/1  
a\_`aaa`aa`[W[¥`¥a`\_aVWR\_\_``¥W¥N¥SUBBBBBB  
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+HWI-EAS443:3:88:1582:1729#0/1  
a`R[[`\_G\_]`Ra`\_]b`Z`[BBBBBBBBBBBBBBBB  
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+HWI-EAS443:3:88:1757:192#0/1  
]`aab\_aa`^`bbab`^^b\_a`aa`a0a`aUa\_VM\_Raa\_  
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+HWI-EAS443:3:88:1769:1704#0/1  
OP`¥X¥¥bU``]`^bb\_\_\_\_]b`¥S]bbb\_Z¥[\_a[^]\_`[I  
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ACTTCAATATAAAGTGCCTGTTCCGCCGGCTACTGGGA  
+HWI-EAS443:3:88:197:1958#0/1  
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+HWI-EAS443:3:88:207:400#0/1  
aaaaUZa[aXYa]\_\_\_\_¥P^^`W^X^YXZ`[S[R[¥W¥¥XZ  
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a`Y`bba\_`baaa]abaaaabaaaY`¥a\_a]`\_b^YU`Y]  
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+HWI-EAS443:3:88:250:733#0/1  
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CTGAGAATAGCTGTTGCTCTTCTCCCAACCATTGTGAATT

+HWI-EAS443:3:88:256:745#0/1  
a\_aaa` ``Za\_aa¥\_ ^a` `¥\_\_\_\_\_ ` `^^\_¥\_ ^X¥UV^\_  
@HWI-EAS443:3:88:26:1912#0/1  
GTCCCGTTTTTCGTTTCATTACCAACTACTCGTCCCTTGC  
+HWI-EAS443:3:88:26:1912#0/1  
a]aa`] ` `aaa\_` \_aaaaba\_aa` a\_\_a]¥Y\_¥` \_ ^WZY  
@HWI-EAS443:3:88:278:98#0/1  
GAGAGATCTAATGTTCGAGTCCCGCACTCGCGAGATACTC  
+HWI-EAS443:3:88:278:98#0/1  
a[a^` ¥Z[] ` ` [a\_` \_` \_^U[ ` W^VGZQ^XW¥U^SSNQUZ  
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TGCTAATTGGGCAAGGGGACGTAGTGTGGTAATGAAACG  
+HWI-EAS443:3:88:298:1090#0/1  
a\_aabaabab[aaabbaa\_\_b\_\_a^aXaa[N\_\_YX\_aZG^  
@HWI-EAS443:3:88:30:474#0/1  
GCCCGTTAGCACTTCTTCTTTCTTGACTGATGATCCG  
+HWI-EAS443:3:88:30:474#0/1  
ab]aaY\_^S^]¥^¥aaaa\_aa` \_aa`] `Ya\_` `] `X` ` `¥  
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GTCCCGTTTTTCGTTTCATTACCAACTACTCGTCCCTTGC  
+HWI-EAS443:3:88:383:445#0/1  
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+HWI-EAS443:3:88:388:738#0/1  
aab`aaaaU¥` a]a^aa` `^WW^^\_Z\_U^T]¥V^XRX^` \_  
@HWI-EAS443:3:88:395:679#0/1  
ATAAAAAGAACTGAGAGATCTAATGTTCGAGTCCCGCACTC  
+HWI-EAS443:3:88:395:679#0/1  
aaaaab^^a\_` aa` a` `aaaa\_aa^` ` ` a]\_` ` `^^Z\_^\_  
@HWI-EAS443:3:88:415:380#0/1  
GGAAAAGCACTTTTGCATCTTTTGGAAATGCCTCAAGAG  
+HWI-EAS443:3:88:415:380#0/1  
ab`Uaab^a\_baaaba` a^baaaaaa` aaa` \_` `aa¥a\_a  
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GGGGACGTAGTGTGGTAATGAAACGAAAACGGGACTCTA  
+HWI-EAS443:3:88:438:1057#0/1  
aaa]a[a\_ab^bZaaa[ ` `a` [\_aa\_\_Z^¥\_Q\_\_ `ZY]^]\_  
@HWI-EAS443:3:88:439:727#0/1  
ACATCATCATTTCTCACTTCTCCTCCTGGAGGTACATCT  
+HWI-EAS443:3:88:439:727#0/1  
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@HWI-EAS443:3:88:449:22#0/1  
GGCGATCTGAACCTTGTCAATAGGGCAAACCAGCGACTGA  
+HWI-EAS443:3:88:449:22#0/1  
abab`a^¥a^\_V[ `aa\_` \_[\_^` \_\_^Z\_^UV^` ¥\_ZZWYV

@HWI-EAS443:3:88:477:1524#0/1  
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`] `aaaabba]aYaaaaaaa]a\_aa]Zaa^U]H^\_U  
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+HWI-EAS443:3:88:479:42#0/1  
a\_]0¥U^`a¥\_a^]a] `^V]ZZ[\_Y^`YZ]\_YV]WZ^  
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TAATGTCGCAGTCCCGCACTCGCGAGATACTCACTAAGAC  
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GTGGCGTACATGCTAGAAAGAGAATTGGTCCGTAACAA  
+HWI-EAS443:3:88:571:679#0/1  
a\_\_Z\_a^`\_a\_a` ``\_a`a` ``\_a` `a^V^^a[¥]a[R]\_  
@HWI-EAS443:3:88:582:1445#0/1  
CTTGTTTTACGGACCAATTCTTTCTAGCATGTACGCCA  
+HWI-EAS443:3:88:582:1445#0/1  
`b\_T[\_ba`^\_U¥abb\_^a]aaab]a`[a`aab]baa`aa  
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+HWI-EAS443:3:88:604:637#0/1  
aaab`a`aba\_\_aaaaab^`a^aaaa` `Z`\_\_^\_`¥` ``  
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AAAGAACTGAGAGATCTAATGTCGCAGTCCCGCACTCGCG  
+HWI-EAS443:3:88:621:452#0/1  
abbbbaabaaababa`bbaaa^`aa`a¥a`\_a`Y`\_a\_\_a  
@HWI-EAS443:3:88:629:1412#0/1  
TGTACTTTATTTTTCAGTGTGGAGGTTGCCGTTAGCA  
+HWI-EAS443:3:88:629:1412#0/1  
aa\_aaaaaaaaa`a][a] ` ` `a¥RY`S` `Z` `^W`  
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GCCCCGTTAGCACTTCTTCTTTCTTGACTGATGATCCG  
+HWI-EAS443:3:88:631:1044#0/1  
abaaaWaW\_\_aaaaa\_a`abbaa`aaa^\_\_a¥\_a`^Z¥a  
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+HWI-EAS443:3:88:659:66#0/1  
]`¥UQQ` `R¥`bb[b]b`]]][W`ZFY¥a]¥VZZ\_[ ]UV  
@HWI-EAS443:3:88:681:1221#0/1  
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+HWI-EAS443:3:88:681:1221#0/1  
aa]bbbbbbbaa\_bbb^b`\_abb\_aba^`a` ` ` `aaa`]a  
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GTCCCCGTTTTCGTTTTATTACCAACTACGTCCCCTTGC  
+HWI-EAS443:3:88:720:56#0/1  
a\_\_`\_b¥` `a\_aWa`\_\_` `[W\_\_¥^W`^¥¥WYVW¥WU¥Y  
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+HWI-EAS443:3:88:734:1202#0/1  
`a`]aabbbbbbb`bbbb`Sabbab`aa\_\_^b^F\_ba  
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+HWI-EAS443:3:88:747:1194#0/1  
aaa\_aaaab`aaaaa`aaa\_a`a`¥\_`a^a[\_\_^\_^`  
@HWI-EAS443:3:88:77:1477#0/1  
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+HWI-EAS443:3:88:77:1477#0/1  
¥\_bbbbbb¥Ua`abb]b\_abb`[^\_]\_ba\_b]Z]a`Saa  
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+HWI-EAS443:3:88:801:931#0/1  
abbaa`bbba`a`bbbbbb`aababaaabbaaaa\_b\_aaa  
@HWI-EAS443:3:88:804:320#0/1  
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+HWI-EAS443:3:88:804:320#0/1  
`Z]`SXYaYWYSZ`Z\_YH¥UT]^Y[¥`\_aU^\_]W`aYaX]  
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+HWI-EAS443:3:88:809:248#0/1  
aaaa`aaaab``aaaaaaaaa^`aaa\_¥^\_]¥W¥YUU\_  
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+HWI-EAS443:3:88:819:1322#0/1  
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@HWI-EAS443:3:88:874:155#0/1  
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+HWI-EAS443:3:88:874:155#0/1  
aab^XS[baaUDTX^a\_]XV`Y\_^[a`XRT`^TYW]Z^\_\_  
@HWI-EAS443:3:88:877:955#0/1  
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+HWI-EAS443:3:88:877:955#0/1  
a^`U]\_VLYZ¥P¥X`Z[a\_ZRWJZ\_^UVLU\_]T]NQ]¥[S  
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+HWI-EAS443:3:88:889:1527#0/1  
aabbb\_bbb\_baaaaababaaaa\_ba\_`a`a\_\_Qaa¥\_]¥  
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GAGAGGATTTCTCATTTTGGCAAAGAAGACAAGAGATAT  
+HWI-EAS443:3:88:893:1343#0/1  
]^b`¥\_[babaaa¥baaab^^`bbaabbaabbbbaaab\_  
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+HWI-EAS443:3:89:1016:748#0/1  
a`baabbbabbbbaabbbbbbbabbbb`[ababb``ab\_  
@HWI-EAS443:3:89:1032:324#0/1  
TACTTTTTGATTATGGCCATATGGTCCACAGTGGTCTTAG  
+HWI-EAS443:3:89:1032:324#0/1  
aaabbbb\_babaaaaaaaa[[]]X]^aVZ\_Wa\_KR^]U]



@HWI-EAS443:3:89:1083:550#0/1  
CGAGATACTACTAAGACCACTGTGGACCATATGGCCATA  
+HWI-EAS443:3:89:1083:550#0/1  
aabbabbabbabbabbbaaabbabaaba^abbba\_\_a` ]  
@HWI-EAS443:3:89:1089:1132#0/1  
ACCGATTTTTAAGGGTTAGAGATCAAAGAGGGAACGTACT  
+HWI-EAS443:3:89:1089:1132#0/1  
aaabaaabbba`aaa`bbaaaaaaaaaa` `a`aa\_a\_`\_ ]  
@HWI-EAS443:3:89:1142:196#0/1  
CGCACTCAGAATGAAGTGGATGATGGCAATGAGATACCCA  
+HWI-EAS443:3:89:1142:196#0/1  
abba`bbababb`ab[bbabbaaba\_` `b`a`\_aa\_`aa  
@HWI-EAS443:3:89:1142:523#0/1  
TGGAGAGAATAAAAGAACTGAGAGATCTAATGTCGCAGTC  
+HWI-EAS443:3:89:1142:523#0/1  
[^\_P`R\_S\_a]a¥VZW`Yba\_aTa\_a]aXaaaX[^` `aRS  
@HWI-EAS443:3:89:1161:134#0/1  
GTTTTCGTTTCATTACCAACACTACGTCCCCTTGCCCAAT  
+HWI-EAS443:3:89:1161:134#0/1  
aab\_\_ba^]aZ^a¥]\_\_`^Ya[^`\_ZaX]\_]`XRSUV[^`  
@HWI-EAS443:3:89:1168:1451#0/1  
GGGGTGGAGTCTGCTGTCCTGAGAGATTCTCATTGTTGG  
+HWI-EAS443:3:89:1168:1451#0/1  
aa`^S^aZa\_^ [a\_a`Z\_]^^\_T\_`¥¥\_ZY[TR\_T[\_¥^  
@HWI-EAS443:3:89:1216:764#0/1  
AAGAACTGAGAGATCTAATGTCGCAGTCCCGCACTCGCGA  
+HWI-EAS443:3:89:1216:764#0/1  
a`]^a¥aaaaa\_a` `a\_aaa¥`¥aaT\_aYU¥T^^]W`¥  
@HWI-EAS443:3:89:1225:587#0/1  
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+HWI-EAS443:3:89:1225:587#0/1  
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@HWI-EAS443:3:89:1235:953#0/1  
TGCATCCTTTCCAAGAACTGTAAGTCGTTTGGTTGCCTTG  
+HWI-EAS443:3:89:1235:953#0/1  
abab`babab`aa\_\_bbabbab¥baab`aaba`aa]`aaa  
@HWI-EAS443:3:89:1275:201#0/1  
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+HWI-EAS443:3:89:1275:201#0/1  
\_aaba¥baaaa^`\_`a[^`\_aaWH^aT\_S[¥^Q[^S\_W¥¥^  
@HWI-EAS443:3:89:1306:373#0/1  
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+HWI-EAS443:3:89:1306:373#0/1  
a]`WT]]\_` [IV¥a¥U`]S[RQY\_\_ZP]Y^\_MTLONVWWL  
@HWI-EAS443:3:89:1351:852#0/1  
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+HWI-EAS443:3:89:1351:852#0/1  
\_`abb]baa¥bb`]ba` `abbababbbbbbWbbaaa\_WO  
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+HWI-EAS443:3:89:1381:128#0/1  
a]aZ^X`ababa\_a\_\_a[\_`R\_¥U`YKNOV[R\_]VXVGM]  
@HWI-EAS443:3:89:1387:245#0/1  
GTCCCGTTTTTCGTTTCATTACCAACTACTCGTCCCCTTGC  
+HWI-EAS443:3:89:1387:245#0/1  
aaa\_^baaba¥^`aa]ab`a\_Ua\_Y`Y`^V\_YYUYVYV]X  
@HWI-EAS443:3:89:1392:979#0/1  
GAAAGAAGAGCTCCAGGATTGAAAATTGCTCCCTTGATG  
+HWI-EAS443:3:89:1392:979#0/1  
]aa\_a\_aa``a\_aa]¥a)`Ya`\_[a^`^a\_XH¥L[YY^``  
@HWI-EAS443:3:89:139:1898#0/1  
ATCTAATGTCGCAGTCCCGCACTCGCGAGATACTCACTAA  
+HWI-EAS443:3:89:139:1898#0/1  
aaaaa`a[[\_a`\_]U`\_a[YJ^^WZV^¥ZSU¥\_US]^W¥\_  
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+HWI-EAS443:3:89:1404:1254#0/1  
a\_a]^Taa`bbbbbb`b\_\_aba\_a`baa][``[\_Xa]aG  
@HWI-EAS443:3:89:1491:810#0/1  
GCTGTAATTGGGTATCTCATTGCCATCATCCACTTCATTC  
+HWI-EAS443:3:89:1491:810#0/1  
a\_bb`\_\_aaaa\_^aa]\_¥^`\_\_Y``V\_^\_^`[\_]V\_\_^V  
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+HWI-EAS443:3:89:1517:810#0/1  
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+HWI-EAS443:3:89:1520:909#0/1  
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+HWI-EAS443:3:89:1522:166#0/1  
aba^`aSa^`bb\_[abbaba]a^`ba``T`aaYH[aaZ``  
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GAATAAAAGAAGACTGAGAGATCTAATGTCGCAGTCCCGCAC  
+HWI-EAS443:3:89:1527:695#0/1  
a\_`aaaZ]a[^V^a`a\_a]a\_a`aaaV^^[\_^][YZ]XVY  
@HWI-EAS443:3:89:1560:313#0/1  
CACGGAGATGTCGCTGAGAGGGATAAGAGTCAGCAAAATG  
+HWI-EAS443:3:89:1560:313#0/1  
aU[a]Z`\_a\_VT`a\_aX¥Y^`a\_a^\_aJ`Qa\_bY`Z¥\_`^a  
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+HWI-EAS443:3:89:167:346#0/1  
aaab\_]PWa^X¥VaXYR[\_JX^\_¥U\_^YR¥ZSYX[[YSZ]  
@HWI-EAS443:3:89:1681:975#0/1  
AAAGAAGACTGAGAGATCTAATGTCGCAGTCCCGCACTCGCG  
+HWI-EAS443:3:89:1681:975#0/1  
]a\_\_W`ab[`Za]¥`X`\_VXba``T^¥[[R^\_S]`aUVVa

@HWI-EAS443:3:89:1712:1985#0/1  
CATGACCCCAAGCACGGAGATGTCGCTGAGAGGGATAAGA  
+HWI-EAS443:3:89:1712:1985#0/1  
R`^a^ba\_aabb]`bbbbbb\_]U\_\_ab`ba\_W\_aab`a`  
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GAGAGATCTAATGTCGAGTCCCGCACTCGCGAGATACTC  
+HWI-EAS443:3:89:1750:1686#0/1  
`bb`bbbbbbbaa\_babbb¥`abTaaaaa```a`\_a\_^  
@HWI-EAS443:3:89:1761:131#0/1  
CTCGGTCTGATCCAGCATCGTTTGTGTTTGTCCAGAGGGT  
+HWI-EAS443:3:89:1761:131#0/1  
ababbababbb`aab\_ab\_baabaaaab`a\_\_`a]a``]  
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+HWI-EAS443:3:89:207:187#0/1  
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+HWI-EAS443:3:89:222:966#0/1  
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+HWI-EAS443:3:89:273:32#0/1  
abaa`aaaaYaaa\_a\_Xa\_\_a^aa[``a^``V^`]V]\_^  
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+HWI-EAS443:3:89:333:473#0/1  
abaaba`aa`aab`aaaa^aaaV`W`X```]T]YU^¥¥^  
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+HWI-EAS443:3:89:353:879#0/1  
a`^a`aaba`aa]bbaaaaaaaa`a\_aabaaaa`a`aa  
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+HWI-EAS443:3:89:361:1246#0/1  
\_V`\_Ya[`aaY^a\_Y\_[\_^][YXP]M¥SQZ\_^^[^^^UY  
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+HWI-EAS443:3:89:363:461#0/1  
abababaa\_babXbbaaa]``aa`\_]aa```aaaa`aa\_  
@HWI-EAS443:3:89:402:765#0/1  
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+HWI-EAS443:3:89:402:765#0/1  
abaabb`aaaaaab¥aaaba]aaa`a`aaa\_aa¥`\_`a\_\_a  
@HWI-EAS443:3:89:461:1124#0/1  
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+HWI-EAS443:3:89:461:1124#0/1  
V[Ya`^bb^\_\_UXa^^\_^`^bab`YXb^aUaa\_\_]^¥\_U\_  
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+HWI-EAS443:3:89:46:1266#0/1  
^`¥R]aaV\_aaaaaaaaa\_aaa\_^[]VY^`]YY``¥[`[\_  
@HWI-EAS443:3:89:478:531#0/1  
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+HWI-EAS443:3:89:478:531#0/1  
`b`aaaababb`abbbaabb`T`\_`aaab`aaa``````\_  
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+HWI-EAS443:3:89:483:250#0/1  
aaaaaaaaaa^`\_]`^a^a`ab`\_`\_\_a^\_]`\_]`^`\_\_¥\_  
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+HWI-EAS443:3:89:496:441#0/1  
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+HWI-EAS443:3:89:496:543#0/1  
a¥\_VX^UZ\_\_^\_Y]SZ\_\_^`^Ya\_`\_\_^[ZUXXR[Y¥[`^  
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+HWI-EAS443:3:89:504:1440#0/1  
a`aabbab`aaaaaa`aaaaXaa\_aa\_`aXaa[a^\_\_`\_`\_`  
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+HWI-EAS443:3:89:526:1139#0/1  
aba\_^abbba`baaa\_aab`ab`\_^aaaaaa^^a\_^[]`a^  
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+HWI-EAS443:3:89:537:794#0/1  
V\_bbbba\_b\_bab`^Ubb^`abaYaab`baaa]¥[aaa`\_  
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+HWI-EAS443:3:89:549:841#0/1  
\_ab¥bbbb`a]abb`aaaba[Ya^aX^ab¥a\_aa`aaU  
@HWI-EAS443:3:89:554:172#0/1  
GTCCCCTTTTCGTTTCATTACCAACTACGTCCCCTTGC  
+HWI-EAS443:3:89:554:172#0/1  
aa\_aa`Z^bb``abb`baaaaa`\_`\_a\_aa\_a`\_]`[^X`]  
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AATAAAAGAACTGAGAGATCTAATGTCGAGTCCCGCACT  
+HWI-EAS443:3:89:55:1118#0/1  
aaaaaaaaaaaaa`\_aaa`\_aa^`a¥`\_^\_\_W^\_\_V`V]Y

@HWI-EAS443:3:89:595:690#0/1  
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+HWI-EAS443:3:89:595:690#0/1  
abb]ba``ba`[\_abaaaaabaa`\_W\_a\_Q^]SZ[\_`Z  
@HWI-EAS443:3:89:615:387#0/1  
CCCCTTTTCGTTTCATTACCAACTACGTCCCCCTTGCCC  
+HWI-EAS443:3:89:615:387#0/1  
a^\_VRW]U\_]I]aZ^`XP]^\_V^^`[[`W[[[YXYVOOV  
@HWI-EAS443:3:89:622:1379#0/1  
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+HWI-EAS443:3:89:622:1379#0/1  
aaaaa\_X^Q`V`XXS\_]aU\_¥`ZZ^\_TFUZ^¥YXYT¥]¥Z  
@HWI-EAS443:3:89:70:936#0/1  
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+HWI-EAS443:3:89:70:936#0/1  
¥]b¥`aababb`a`[aZQ^a]`\_^aaaaa]\_aaa]\_``  
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+HWI-EAS443:3:89:738:120#0/1  
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aaaaaaaaaaaa`aaaaaaaa`aa`aa\_a``aa]\_[^`\_[]  
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+HWI-EAS443:3:89:778:1405#0/1  
`\_\_\_\_ZTTZ\_PR]^`^a¥]U^baa`XFOXV`\_PQWQXUYV  
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+HWI-EAS443:3:89:787:516#0/1  
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AGAGAATAAAAGAAGTGAAGATCTAATGTCGCAGTCCCG  
+HWI-EAS443:3:89:803:101#0/1  
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+HWI-EAS443:3:89:816:1558#0/1  
aba]Q]][]`aS^¥¥Y^SVa`NR]V^S^`aWVW¥N\_X^NS  
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+HWI-EAS443:3:89:838:1482#0/1  
`]`baba^^]]b[`]``\_X¥aa`^a`\_\_¥a^`a`[]\_`a`  
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¥Saabbbab\_^babbZ¥b]G\_bb^a\_aX¥[a`P`Vaaab`  
@HWI-EAS443:3:89:872:1592#0/1  
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+HWI-EAS443:3:89:872:1592#0/1  
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+HWI-EAS443:3:89:909:446#0/1  
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+HWI-EAS443:3:89:94:1106#0/1  
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@HWI-EAS443:3:89:970:2029#0/1  
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+HWI-EAS443:3:89:970:2029#0/1  
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+HWI-EAS443:3:89:97:1406#0/1  
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+HWI-EAS443:3:89:983:456#0/1  
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+HWI-EAS443:3:89:986:675#0/1  
a`^`ababbbba]]`aZ`\_]ab`\_`Vaa[`\_`\_`^0[\_]`T]  
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+HWI-EAS443:3:89:98:517#0/1  
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@HWI-EAS443:3:89:993:1954#0/1  
CAGTGTGAGCAGACCCATTAGCATCTCTTGGAAATGTG  
+HWI-EAS443:3:89:993:1954#0/1  
`\_`aaba`\_HZ`^`\_`bbbb`\_`bbZ]Z]a`b[b¥abbbY^[\_`

@HWI-EAS443:3:8:1001:2043#0/1  
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+HWI-EAS443:3:8:1001:2043#0/1  
a`aX\_] ^Z` ]^^X\_\_\_^\_\_Z¥Z^Z[ZW]WZ]]XRKMXB  
@HWI-EAS443:3:8:1028:113#0/1  
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+HWI-EAS443:3:8:1028:113#0/1  
a^^^aaaaa]] [aaaa^`a^a`^^^a` `a\_Z]\_W^Z]\_^  
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+HWI-EAS443:3:8:1041:1851#0/1  
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+HWI-EAS443:3:8:1042:828#0/1  
Yabb¥`¥^b\_]Y` \_\_[\_a`a]^b`^bbaabba``\_aV\_a  
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+HWI-EAS443:3:8:1076:417#0/1  
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+HWI-EAS443:3:8:1129:1184#0/1  
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+HWI-EAS443:3:8:1334:704#0/1  
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+HWI-EAS443:3:8:1370:1025#0/1  
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+HWI-EAS443:3:8:1440:2031#0/1  
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+HWI-EAS443:3:8:1790:888#0/1  
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+HWI-EAS443:3:8:192:1636#0/1  
a`Zbaa^baa`a^`aa`aaa\_\_a``\_\_a`]^\_U^RZ^U]]  
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+HWI-EAS443:3:8:365:518#0/1  
^aabb`ab\_b^]aaU^a`aa\_S\_\_`aa\_a`\_W]\_`\_^\_¥  
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+HWI-EAS443:3:8:715:1617#0/1  
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+HWI-EAS443:3:8:716:318#0/1  
\_Z\_`^\_G\_\_\_a`^a`Z``ZO¥^OXZZ[ZO]\_]XZZ]WVX  
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+HWI-EAS443:3:8:850:941#0/1  
a\_YaYXY¥]Vaa]^U^`\_]W`[VS[[[\_PX¥[ZXWI¥`]Z  
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aaa]]^^a`R]a\_[``]`^W`X¥\_[[[UR]]\_]X\_]¥\_^R  
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+HWI-EAS443:3:8:949:1259#0/1  
a\_\_`a`aa`\_a`\_`\_`\_`\_]\_\_\_\_\_]^`^`^¥\_ZZ]^U  
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+HWI-EAS443:3:8:950:1992#0/1  
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+HWI-EAS443:3:8:955:2002#0/1  
aa`\_aaa\_\_`^`a`[]^Y`\_`\_`¥`VQ\_\_Y\_PT[V¥VX^^]  
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+HWI-EAS443:3:90:1015:520#0/1  
a\_a\_\_a\_a`a`a]a`\_`\_`^\_a`\_]`\_]`\_`^[V^U]]]V  
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+HWI-EAS443:3:90:1027:1318#0/1  
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+HWI-EAS443:3:90:1041:1830#0/1  
¥bab^¥bbaaaaa`a`aa^`\_babb¥baaaaab\_^`\_a^a  
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+HWI-EAS443:3:90:1142:781#0/1  
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+HWI-EAS443:3:90:1217:265#0/1  
aabbababbbbaaabaabbbbb`ba\_aaaaa`aaa\_``  
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+HWI-EAS443:3:90:1245:909#0/1  
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+HWI-EAS443:3:90:1388:1853#0/1  
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aaaaaabb¥Za]`a¥`aZ[Q`\_YYY\_]`\_^^¥¥W^¥WSW  
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+HWI-EAS443:3:90:157:996#0/1  
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+HWI-EAS443:3:90:1657:341#0/1  
T\_bbbb`baa`a`a^¥^¥abba^]^bbb`\_`^¥`ZaV^b\_]`  
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ATGTCGCAGTCCCGCACTCGCGAGATACTCACTAAGACCA  
+HWI-EAS443:3:90:1787:978#0/1  
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+HWI-EAS443:3:90:180:1007#0/1  
`¥aaabX\_a`aZ`a\_aa\_\_\_\_\_`\_\_`\_`^`\_`^U\_X\_^XYY]  
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+HWI-EAS443:3:90:205:245#0/1  
aaaaa\_\_\_a\_a\_\_`^\_a`a^a`V`^`\_]V\_]`^Y^^YXY  
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+HWI-EAS443:3:90:255:85#0/1  
¥¥a\_ab]Paab¥bb¥RVaaSZ¥XZ^YMGGXPQ[PPW[OFY  
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+HWI-EAS443:3:90:259:460#0/1  
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+HWI-EAS443:3:90:275:1970#0/1  
\_a\_R`\_b^^```¥Z\_`a``¥]\_aa¥T¥WZaaa`¥TY\_```\_  
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+HWI-EAS443:3:90:286:1235#0/1  
]^b^abaZS¥\_`a`aa`Y`aaa\_aaa]^`^`]^`\_\_^aaa`  
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``MVZ[\_`Y\_```Y\_]a\_^VPX[¥\_`\_]a]^`¥¥\_]Z`V[\_  
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ab\_aabaabbaaaaaa^`aaa\_\_aaaaa`¥a\_a``a  
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+HWI-EAS443:3:90:381:1310#0/1  
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+HWI-EAS443:3:90:393:200#0/1  
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+HWI-EAS443:3:90:409:1104#0/1  
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+HWI-EAS443:3:90:422:73#0/1  
`a`b^\_\_a\_b\_\_\_^aaaa\_\_\_`\_aa]¥X\_XY]^XXX\_VOY  
@HWI-EAS443:3:90:444:1055#0/1  
GTTCTTGAAAGGATGCAGGTGCATTGACTGAAGATCCAG  
+HWI-EAS443:3:90:444:1055#0/1  
aa`babbb\_aaba]\_`aaa^Tab\_``a`\_`a\_W\_[^]\_¥\_  
@HWI-EAS443:3:90:465:39#0/1  
GGCCACAATTATTGCCTCAGCAATTGACTGCTCGTCTCTC  
+HWI-EAS443:3:90:465:39#0/1  
aaa`a`^\_ab`aaa]\_a``aa^`a^`^[\_a`\_^\_]`^V]]  
@HWI-EAS443:3:90:532:625#0/1  
GTTTGGTTGCCTTGTTGTAATTGAATACTGGAGAATTGCC  
+HWI-EAS443:3:90:532:625#0/1  
aaaXZ]M`aaaa`aYaaY\_aa`a^[\_a]`\_a\_`\_U\_]\_¥¥  
@HWI-EAS443:3:90:558:1694#0/1  
GAATAAAAGAACTGAGAGATCTAATGTCGCAGTCCCGCAC  
+HWI-EAS443:3:90:558:1694#0/1  
aa`^]b[`QZ`X```\_aY`aaT\_[[R[`ZU\_LYYZ[^JV  
@HWI-EAS443:3:90:594:1270#0/1  
GAATAAAAGAACTGAGAGATCTAATGTCGCAGTCCCGCAC  
+HWI-EAS443:3:90:594:1270#0/1  
¥[^`b`\_\_aaaa\_OV`U`Y[\_`^`ba¥[`b`b`[a[`aKa  
@HWI-EAS443:3:90:682:114#0/1  
GAATAAAAGAACTGAGAGATCTAATGTCGCAGTCCCGCAC  
+HWI-EAS443:3:90:682:114#0/1  
a``aa\_SZ]X`\_`aaabYa^\_Yb¥Y]a]\_\_`\_aYU^]`^VY  
@HWI-EAS443:3:90:691:1535#0/1  
GAGAATAAAAGAACTGAGAGATCTAATGTCGCAGTCCCGC  
+HWI-EAS443:3:90:691:1535#0/1  
`PSZa`S]Z``V`a\_a\_NZ]a\_[`¥0¥¥UaU\_]UO\_\_^^`  
@HWI-EAS443:3:90:709:1302#0/1  
AATTTTACAATCCTGGAGCTCTTCTTTCTTCTTTTGT  
+HWI-EAS443:3:90:709:1302#0/1  
ab`[aaU`[[``\_``^[[a\_`[\_Y\_]`\_`^a\_]\_\_`X^  
@HWI-EAS443:3:90:736:1542#0/1  
AAAAGAACTGAGAGATCTAATGTCGCAGTCCCGCACTCGC  
+HWI-EAS443:3:90:736:1542#0/1  
Y\_ZabbbbaYabbbbaaab`\_a`b]aaa`b\_aaaa\_\_\_aWYT  
@HWI-EAS443:3:90:740:924#0/1  
CATATGCAAGGCAGCAATAGGGTTGAGGATTAGCTCATCT  
+HWI-EAS443:3:90:740:924#0/1  
^bba`\_bbbbababbaaa^bab\_`aabb`b\_aa\_`Yaa[a  
@HWI-EAS443:3:90:770:979#0/1  
CTTATTTTCAGTGTGGAGGTTGCCCGTTAGCACTTCTT  
+HWI-EAS443:3:90:770:979#0/1  
QY]Q^`^aab`\_S^a^^abbV`]Va`]PX``VSYZaaba  
@HWI-EAS443:3:90:830:124#0/1  
GATCTAATGTCGCAGTCCCGCACTCGCGAGATACTACTA

+HWI-EAS443:3:90:830:124#0/1  
\_`baa`bb`bba\_] [\_aXaaX`aZ`\_aXaZQ^N\_VZ\_\_`  
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CAATGAGATACCCAATTACAGCAGACAAGAGAATAATGGA  
+HWI-EAS443:3:90:839:289#0/1  
\_\_a`aWa`¥Zb¥[bbaa`aa\_`aa]`bab`\_]b`a`aaXa  
@HWI-EAS443:3:90:904:1440#0/1  
GAATAAAAGAACTGAGAGATCTAATGTCGCAGTCCCGCAC  
+HWI-EAS443:3:90:904:1440#0/1  
U\_ba`a\_`b^baU^`^`^\_¥a\_b`Zba`Yb`aaaSYa`b``  
@HWI-EAS443:3:90:90:1086#0/1  
GTCTTCTTTGCCAAAATGAGAAATCCTCTCAGGACAGCA  
+HWI-EAS443:3:90:90:1086#0/1  
a]\_[S\_ZRZ¥YW\_\_^RV[`\_\_\_\_\_]^[^]]XW\_^]YY]OW\_]`  
@HWI-EAS443:3:90:92:1455#0/1  
CAAGGGAGCAATTTTACAATCCTGGAGCTCTTCTTTCTTC  
+HWI-EAS443:3:90:92:1455#0/1  
aL^YZTaaab``]`^`aaT]`\_¥UZ^SZSXS^¥X^Z¥^USO  
@HWI-EAS443:3:90:92:1636#0/1  
AAAAGAACTGAGAGATCTAATGTCGCAGTCCCGCACTCGC  
+HWI-EAS443:3:90:92:1636#0/1  
aba]X\_aba`aa`\_\_a\_\_`adW\_\_^\_]`^aRNWXVX]^`  
@HWI-EAS443:3:90:935:797#0/1  
GTACATCTGCTCCCAGCACGTCCCTTGGGTAAAGTGCAAC  
+HWI-EAS443:3:90:935:797#0/1  
`baaababbaa]W\_`^^`\_\_\_\_]Y\_aa`¥`]a`a`Z\_[a\_^`  
@HWI-EAS443:3:90:93:1521#0/1  
CTAATGTCGCAGTCCCGCACTCGCGAGATACTCACTAAGA  
+HWI-EAS443:3:90:93:1521#0/1  
XQW\_Z`bbaaXW^^^UZFZ¥a`^RQ]`a¥\_`aaYFZ^TX  
@HWI-EAS443:3:90:943:1319#0/1  
GAGAATAAAAGAACTGAGAGATCTAATGTCGCAGTCCCGC  
+HWI-EAS443:3:90:943:1319#0/1  
``^]a`a`a¥X\_]W¥a¥aa`a`a\_^]Xa`\_`^U^Z^]\_`  
@HWI-EAS443:3:90:988:1000#0/1  
GCTGTAATTGGGTATCTCATTGCCATCATCCACTTCATTC  
+HWI-EAS443:3:90:988:1000#0/1  
aa^\_U¥[aaaa\_X`\_a\_[¥``\_]Y^\_\_`\_`^`\_`^\_]¥WS  
@HWI-EAS443:3:90:992:1028#0/1  
TGGAGAGAATAAAAGAACTGAGAGATCTAATGTCGCAGTC  
+HWI-EAS443:3:90:992:1028#0/1  
abaWb\_b]`aa``]a]\_`a]a]a``aa¥aaa[T\_¥a\_]`  
@HWI-EAS443:3:90:992:961#0/1  
GTCTGCTGTAATTGGGTATCTCATTGCCATCATCCACTTC  
+HWI-EAS443:3:90:992:961#0/1  
a`aaaa`Z`\_aZJY`LY^`¥^]U]]\_[\_]ZZ[XNNR\_XU  
@HWI-EAS443:3:91:1027:425#0/1  
ATAAAAGAACTGAGAGATCTAATGTCGCAGTCCCGCACTC  
+HWI-EAS443:3:91:1027:425#0/1  
aaba`abaa`baababa`\_baabb\_^`aab^\_\_Zaa`\_\_^`



@HWI-EAS443:3:91:1060:2042#0/1  
ATCTGCTCCCAGCACGTCCCTTGGGTAAAGTGCAACTT  
+HWI-EAS443:3:91:1060:2042#0/1  
abaaaa`a`aa¥Ya\_\_W\_¥^^a[\_\_S¥a\_\_U]\_``\_`U¥^  
@HWI-EAS443:3:91:1077:444#0/1  
AAACGATGCTGGATCAGACCGAGTGATGGTATCACCTCTG  
+HWI-EAS443:3:91:1077:444#0/1  
\_]aWa]W\_TZ```]ZO\_\_\_OWOZ¥G`ZNWRFVW^^\_\_YFZ  
@HWI-EAS443:3:91:1116:1063#0/1  
GAATAAAAGAACTGAGAGATCTAATGTCGCAGTCCCGCAC  
+HWI-EAS443:3:91:1116:1063#0/1  
aX`\_YRZ\_\_PXY^`ZZ\_^]\_^\_]`]]]QUUW^XVTV^Y]VS  
@HWI-EAS443:3:91:1135:242#0/1  
CCCCACTTCATTTGGGAAAACAACTTCCATAATCACATCC  
+HWI-EAS443:3:91:1135:242#0/1  
`Z\_¥\_ZWY]Y¥`aabaaa`^\_[[]`ZVU\_]`^a[MW]a[NP  
@HWI-EAS443:3:91:1176:79#0/1  
CCCGTTTTCGTTTCATTACCAACTACGTCCCCTTGCCC  
+HWI-EAS443:3:91:1176:79#0/1  
abbbbbbbabbbbbbbbaabbab`ba`baa\_\_]aab\_Z^  
@HWI-EAS443:3:91:1221:1317#0/1  
GGATCAGACCGAGTGATGGTATCACCTCTGGCCGTAACAT  
+HWI-EAS443:3:91:1221:1317#0/1  
aaHXS\_QKV^Y`XMYPT`BBBBBBBBBBBBBBBBBBBB  
@HWI-EAS443:3:91:1284:801#0/1  
GGGTTAGAGATCAAAGAGGGAACGTACTATTGTCTCCCGA  
+HWI-EAS443:3:91:1284:801#0/1  
abaUaa\_T[aaYZ\_]a\_``\_¥`Y\_X\_]\_]\_``]]\_YSYZY  
@HWI-EAS443:3:91:1294:1162#0/1  
CACTTTTGCATCTTTTGGAAATGCCTCAAGAGTTGGTGC  
+HWI-EAS443:3:91:1294:1162#0/1  
WX[¥aba[R\_bb\_\_bbbZbaaa`[^U^ZZb]]abba\_¥`  
@HWI-EAS443:3:91:1306:521#0/1  
TGGCCATGGTATTCTCACAAGAGGATTGCATGATCAAGGC  
+HWI-EAS443:3:91:1306:521#0/1  
]\_¥R`aabb\_bbbb`a`\_aba]baaab`aa`a\_\_^`a^^  
@HWI-EAS443:3:91:1326:1558#0/1  
TCCAGATGAAGGCACATCTGGGGTGGAGTCTGCTGTCCTG  
+HWI-EAS443:3:91:1326:1558#0/1  
abb[\_`ab`aba\_a\_``\_aaaaWa`\_a^^aa\_\_aV¥K¥a  
@HWI-EAS443:3:91:1334:703#0/1  
AAAGAAGTGAAGATCTAATGTCGCAGTCCCGCACTCGCG  
+HWI-EAS443:3:91:1334:703#0/1  
abab\_babbbbaaaaa`b`abb`aa]a`]¥`W`a[¥]N\_Y\_  
@HWI-EAS443:3:91:1387:1153#0/1  
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+HWI-EAS443:3:91:1387:1153#0/1  
abbbabbbababbbbb[abbbbbbb]ab`bbabb\_a^  
@HWI-EAS443:3:91:1410:1976#0/1  
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+HWI-EAS443:3:91:1410:1976#0/1  
]babbbba`bba]aabb\_]aa\_abb^ba`aaaaUYaaaa  
@HWI-EAS443:3:91:1424:496#0/1  
TTCCTGATGTGACTTTTTGATTATGGCCATATGGTCCAC  
+HWI-EAS443:3:91:1424:496#0/1  
^`ab`^]][^]`abbbbab`a`a\_a\_\_Xa\_a^P]QYT]I  
@HWI-EAS443:3:91:1434:625#0/1  
AATAAAAGAAGTCTAATGTCGCAGTCCCGCACT  
+HWI-EAS443:3:91:1434:625#0/1  
aab^\_bba^aa`T\_aaa`ab`aa^¥a^`aWZW]^`^R]  
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TAATGTCGCAGTCCCGCACTCGCGAGATACTCACTAAGAC  
+HWI-EAS443:3:91:144:1604#0/1  
abaaa¥aa`^a^aa`aa^^^[\`¥]^Y¥`\_^\_\_U¥¥PUVY  
@HWI-EAS443:3:91:1476:2024#0/1  
ACCCAATTACAGCAGACAAGAGAATAATGGACATGATTCC  
+HWI-EAS443:3:91:1476:2024#0/1  
a\_\_\_baaaa`Ua`a`\_a\_a^a[\_`]]`W`\_^`^\_WS  
@HWI-EAS443:3:91:1493:885#0/1  
TGTCCACCATCCTTACTCCTCCAATCTGTGTGCTGTGGCA  
+HWI-EAS443:3:91:1493:885#0/1  
^\_ZZXa\_]aa\_\_aa`aa\_]a`\_\_`a\_aa\_\_^¥V\_\_Va^R]  
@HWI-EAS443:3:91:1548:1096#0/1  
AGAACCCCGCACTCAGAATGAAGTGGATGATGGCAATGAG  
+HWI-EAS443:3:91:1548:1096#0/1  
```]`^]Zaaa^a\_R^Y\_aa[[¥P`]Z\_bZab]GY]WZ\_a  
@HWI-EAS443:3:91:1549:1629#0/1
AAGAAGTCTAATGTCGCAGTCCCGCACTCGCGA
+HWI-EAS443:3:91:1549:1629#0/1
aa`ababbbbaa`aaabaabb`aSaa_X]`__`^`Za^]]
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AAAGAAGTCTAATGTCGCAGTCCCGCACTCGCG
+HWI-EAS443:3:91:1562:1983#0/1
abaaaa`Y`a^`aa__a[YWa`¥__`YLKS_BBBBBBBBB
@HWI-EAS443:3:91:1567:221#0/1
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+HWI-EAS443:3:91:1567:221#0/1
abaa`b_baa`aa_a_aa`ab`a¥`a`^¥¥W_Y¥¥X^W¥
@HWI-EAS443:3:91:159:1947#0/1
CTAGAGTCCCGTTTTCGTTTCATTACCAACTACGTCCC
+HWI-EAS443:3:91:159:1947#0/1
`b`_bbSaL]OV]ZWUa[_abaZ]`a]^a_]N[]][XP][SV
@HWI-EAS443:3:91:1600:1372#0/1
CTAATGTCGCAGTCCCGCACTCGCGAGATACTCACTAAGA
+HWI-EAS443:3:91:1600:1372#0/1
Zbbbbbbbbbbbbbb`bbb`aba`baababaabb`¥bab`
@HWI-EAS443:3:91:1611:878#0/1
CAGATGAAGGCACATCTGGGGTGGAGTCTGCTGTCTGAG
+HWI-EAS443:3:91:1611:878#0/1
`]ZWX_U]aTGUVPb]babZ^b_[b[[bb]V_Z_IU`Va

@HWI-EAS443:3:91:1616:1490#0/1
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+HWI-EAS443:3:91:1616:1490#0/1
abb[]_`a]a]a_`[]`aa^aa]aa_aa_`_a[_^]]`[]
@HWI-EAS443:3:91:1711:1137#0/1
GCGATCTGAACCTTTGTCAATAGGGCAAACCAGCGACTGAA
+HWI-EAS443:3:91:1711:1137#0/1
]H]FU[`ZP¥M[] []ZR¥VR^] ^¥NZNXMOSWJQZRY]BB
@HWI-EAS443:3:91:1731:685#0/1
AAAAGAAGTGAAGATCTAATGTCGCAGTCCCGCACTCGC
+HWI-EAS443:3:91:1731:685#0/1
`a`Yabbaa^_U_bbbbababa`V[X_^a]]`_RX¥`X_H
@HWI-EAS443:3:91:1731:910#0/1
CACTGACTCAGGGCCATTGATCTCCACATCATTGATGAC
+HWI-EAS443:3:91:1731:910#0/1
¥a`Vb^`aba^`b`^`aa__b`baaab_bbaaaababaaW
@HWI-EAS443:3:91:199:1250#0/1
TCCCGTTTTCGTTTCATTACCAACTACGTCCCCTTGCC
+HWI-EAS443:3:91:199:1250#0/1
ab__b[___a]a_`a¥Y` `a`X` `a`]___^Y]_] ^]]XX_
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AAACAAACGATGCTGGATCAGACCGAGTGATGGTATCACC
+HWI-EAS443:3:91:202:1162#0/1
a`ba[aaaaaa`_`[a__`a^_a^a_¥^aa^W_`V[WW
@HWI-EAS443:3:91:209:469#0/1
AGAGAATAAAAGAAGTGAAGATCTAATGTCGCAGTCCCG
+HWI-EAS443:3:91:209:469#0/1
aaaaababaa[b`aa`aa_`aaaaaaaaa¥aa`_a]`[_^
@HWI-EAS443:3:91:227:867#0/1
GCACTTCTTCTTCTTCTTGGACTGATGATCCGCTTGCTCCT
+HWI-EAS443:3:91:227:867#0/1
aa]^`a` `a`aa_aaaWa` `a_aa` `a__X___^`YVW_
@HWI-EAS443:3:91:256:1398#0/1
GCACTCGCGAGATACTACTAAGACCACTGTGGACCATAT
+HWI-EAS443:3:91:256:1398#0/1
ab]^`X^` []W[[¥ZTQVPSWSW[XZQSPWSW]TWZS]V
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AAAGAAGTGAAGATCTAATGTCGCAGTCCCGCACTCGCG
+HWI-EAS443:3:91:305:563#0/1
^VOZWR[`aRX` `[X]` [ST`S`^S][RVUYTLLMVWTWZ
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AAGAGAGATGCTAATGGGTCTGCTGACACTGCTGCTCTTC
+HWI-EAS443:3:91:312:650#0/1
YW[¥_SW`bb` `SZ` `UW` `XSa^^] `bbU^Y^MXUO` `a
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CTAATGTGCTAATTGGGCAAGGGGACGTAGTGTGGTAAT
+HWI-EAS443:3:91:313:138#0/1
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@HWI-EAS443:3:91:31:380#0/1
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+HWI-EAS443:3:91:31:380#0/1
a`_V¥`_Z_ab__^`aaa[F[b¥V_[`]Y_aa`^_ZN
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GGCGATCTGAACCTTTGTCAATAGGGCAAACCAGCGACTGA
+HWI-EAS443:3:91:329:696#0/1
a]^_WJW]X]^_][N]]XWWU]¥^[SR¥][^_AY[XYYVX
@HWI-EAS443:3:91:356:837#0/1
CTGAAGTGGACAGGGCCGAAGTACCATGTTTCAACCTTT
+HWI-EAS443:3:91:356:837#0/1
ab`aYa`_a_^b`a]^`aa_]VaG`_¥U`aT¥`_`_]_a_¥
@HWI-EAS443:3:91:370:1224#0/1
TCCTGATGTGTACTTTTTGATTATGGCCATATGGTCCACA
+HWI-EAS443:3:91:370:1224#0/1
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@HWI-EAS443:3:91:395:1762#0/1
ATTGAATACTGGAGAATTGCCTCTTACCAGTATCCTCAAC
+HWI-EAS443:3:91:395:1762#0/1
a^]Z_^`bZTG[P]]`P[UYaY_ZZW][][RZ¥T^X^]]X
@HWI-EAS443:3:91:401:1821#0/1
TTCTCATTTTTGGGCAAAGAAGACAAGAGATATGGCCCAGC
+HWI-EAS443:3:91:401:1821#0/1
`aba]]a_aa[VHZ`_baaaaa_a[```_[a]XD[_^`[]
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+HWI-EAS443:3:91:414:1315#0/1
T__Zba][b``¥bbb```Tbaab]b^aaabaaaabaaaab
@HWI-EAS443:3:91:43:929#0/1
AAATGCGGGATGTGCTTGGGACATTTGACACTGTCCAAAT
+HWI-EAS443:3:91:43:929#0/1
¥_Y`_¥`^¥]^b^`[¥R`b_^bba``b^Y`aaa`[``_Q_
@HWI-EAS443:3:91:484:18#0/1
GAGAGATCTAATGTCGCAGTCCCGCACTCGCGAGATACTC
+HWI-EAS443:3:91:484:18#0/1
_X[Q^YaVaUZ¥aX^XS[_XU¥_¥WRVWV]VSJVWVPPRG
@HWI-EAS443:3:91:498:150#0/1
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+HWI-EAS443:3:91:498:150#0/1
abbaabbbbabababbbbbbbbabaa`bbaabbbbaabbb
@HWI-EAS443:3:91:595:248#0/1
CGTAAAACAAGTTTTCTCCAGTAGCCGCGGAACAGGCA
+HWI-EAS443:3:91:595:248#0/1
aa[a_`ba[_baUaY[`¥¥S¥b_¥bWZabba`]^`abaaT_
@HWI-EAS443:3:91:640:1109#0/1
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+HWI-EAS443:3:91:640:1109#0/1
abbaaaaabaaababa`aa_aaaa_aaa`baaaaab^aa
@HWI-EAS443:3:91:673:1439#0/1
ATTTTAACCTTGATTTCTGAAGTGGACAGGGCCGAAGGTAC
+HWI-EAS443:3:91:673:1439#0/1
aabbb_aabaaaaabaaaa`^a_a`__aa`_^]``U`_

@HWI-EAS443:3:91:681:1518#0/1
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+HWI-EAS443:3:91:681:1518#0/1
a]aa_[ba^¥ab`babbVZT^ab^`aaa`ab_aabaaaa^
@HWI-EAS443:3:91:699:428#0/1
AGAAGTGAAGATCTAATGTCGCAGTCCCGCACTCGCGAG
+HWI-EAS443:3:91:699:428#0/1
aaaa`abaabbaa`aaaa¥aaaa¥___aa_`__a_`_`
@HWI-EAS443:3:91:723:656#0/1
TTCCCATCACATTGTCGATGGATTCAATCCCGAGTTCTG
+HWI-EAS443:3:91:723:656#0/1
aab¥baaaaaaaaa^aa`^a]]]aa`a_``a__^^X___]
@HWI-EAS443:3:91:723:96#0/1
CTGCTGTAATTGGGTATCTCATTGCCATCATCCACTTCAT
+HWI-EAS443:3:91:723:96#0/1
X^babaab_bbbbbabbabbab`bbaa_abaaaabb`aa
@HWI-EAS443:3:91:733:1325#0/1
TGCTAATTGGGCAAGGGGACGTAGTGTGGTAATGAAACG
+HWI-EAS443:3:91:733:1325#0/1
``bbbbbbbabbbbaabaabaaa`b`bbWEW`][`Y]
@HWI-EAS443:3:91:740:1041#0/1
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+HWI-EAS443:3:91:740:1041#0/1
V`abaa]]Tbb]ba__babaabaabbbabb`]abb_aba
@HWI-EAS443:3:91:748:1807#0/1
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+HWI-EAS443:3:91:748:1807#0/1
]]ZYbbb_aaa_]`aaa`__a_aa````a^____`____Z
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TAAAGAAGTGAAGATCTAATGTCGCAGTCCCGCACTCG
+HWI-EAS443:3:91:763:1893#0/1
a`_T`a¥aaa^^Q¥`a`aaa``aV__``_T_a`¥^TZWW^
@HWI-EAS443:3:91:765:1547#0/1
AAAAGAGAAGAAAGAAGAGCTCCAGGATTGAAAATTGCT
+HWI-EAS443:3:91:765:1547#0/1
a`U^a`aY_`_Z¥¥¥aa`aa`a```^a_a^]W¥Ya^`[W
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ATGTCGCAGTCCCGCACTCGCGAGATACTACTAAGACCA
+HWI-EAS443:3:91:782:426#0/1
ZaaJbaTb^^aa`a^^^Y_aaaaZ]RXaZa`Z¥]`_^S]
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ATGCAAGGCAGCAATAGGGTTGAGGATTAGCTCATCTTTC
+HWI-EAS443:3:91:792:406#0/1
U¥^¥b¥X_WR`¥T`[U_¥`N^¥]`^T^^bba_SZ^P_aZS
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AGAGAATAAAAGAAGTGAAGATCTAATGTCGCAGTCCCG
+HWI-EAS443:3:91:83:743#0/1
Q_Y_X_a`¥aYZ]¥ZbaW]`^`__b`^`[b`^a]]]`a
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GATTAGCTCATCTTTCAGTTTTGGTGGGTTCACTTTCAAA

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+HWI-EAS443:3:91:848:32#0/1
a_`RQJPX_WaXVVNT]]UVV[UVX¥SUXU¥NUUYUUVSU
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GTCCTGAGAGGATTTCTCATTTTGGGCAAAGAAGACAAGA
+HWI-EAS443:3:91:858:1900#0/1
`[W^_a`a^`a^Z__^^_¥X_YUY^W_^_¥S_[__U^ZXZ
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]aa[a`abababbba_ababbabb`ababaXaaa`a____
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a``_aaaa_`a_`a_`_`^X^^`_aZ^a_¥____^^]Y^^
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+HWI-EAS443:3:91:958:96#0/1
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+HWI-EAS443:3:91:973:664#0/1
U`bba[aVTZ_Q¥_Z^`bUXZ¥¥ab¥0^aaP¥]Xaa^P]H
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+HWI-EAS443:3:91:977:475#0/1
aa]`aaaa^^`^^`Z_a`^]W_[`^Z¥W_¥¥_XZWZ¥¥¥_
@HWI-EAS443:3:92:1029:929#0/1
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+HWI-EAS443:3:92:1029:929#0/1
``a`aa`Rw`__R`]__Z`^a^]a`aU^__`Y^X0`^
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GCGAGATACTCACTAAGACCACTGTGGACCATATGGCCAT
+HWI-EAS443:3:92:1040:378#0/1
aa`a`a[`_^¥a^aa_`_^_a¥`^)`_W``]____]]^V[U
@HWI-EAS443:3:92:1097:147#0/1
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+HWI-EAS443:3:92:1097:147#0/1
abaaa`aa_a^a[_aaa`^^__a¥_W`¥_WSS^]a`¥Z^
@HWI-EAS443:3:92:1102:1717#0/1
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+HWI-EAS443:3:92:1126:1297#0/1
ab_]Za`a`¥`aa_`aaaV`_^a__`]^`X]]a``_Za^^
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+HWI-EAS443:3:92:1127:1044#0/1
_^aZULXU_aba]^`a[baaaa^^`_]aa^¥`P`a__NUH
@HWI-EAS443:3:92:1141:1624#0/1
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+HWI-EAS443:3:92:1141:1624#0/1
^b^UY[bSbabaabab`bb[]a`_bbba^[^aaaK__bba
@HWI-EAS443:3:92:1184:1976#0/1
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+HWI-EAS443:3:92:1184:1976#0/1
[aab_b_]aN`TJ`_`LYaabbU`a]aZHOF0aK]G[S
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+HWI-EAS443:3:92:1190:1863#0/1
aa__``aba_aaaaaaWF__^^^`_`Va`ZX¥^`_[Z`__
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abba`aaaaa__a`_aa_aaa_a`b^_aaaaaaa_`^`_a
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+HWI-EAS443:3:92:1439:644#0/1
aaa_]b`_`a_b`aa_aa`a]Y`a]a^`a]_^]^^^X]¥
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+HWI-EAS443:3:92:144:1952#0/1
abb^V_a___aT`Y_aa__a`Y`_]`[R__RX^ZUVGVN
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¥`__¥__b_WNY`RRZba`__]X_]NXW`X`^XK_^YX
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+HWI-EAS443:3:92:1478:1225#0/1
^ab`_`a`a`bW```_NZZ`bbZbaa_]`[]_aa`aa_a
@HWI-EAS443:3:92:1552:1405#0/1
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+HWI-EAS443:3:92:1552:1405#0/1
`a^__b__aa_a_aa_a_aa^]a`Xa¥aa____]]]_^`X
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+HWI-EAS443:3:92:156:548#0/1
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+HWI-EAS443:3:92:1577:405#0/1
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+HWI-EAS443:3:92:158:616#0/1
aXa`b_a_a_a^a`a`_`_`^`[Y_]`_`_]`^U^X^X^Y
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+HWI-EAS443:3:92:1627:1091#0/1
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abb_bba`aaab¥bab]`aa_^`_`_`U_[``_¥^¥US¥¥
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+HWI-EAS443:3:92:187:511#0/1
]XUZT_[_a_Ubaa¥IZ]aa`a`Wa_[][`^YX]]aSS]F
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+HWI-EAS443:3:92:192:1684#0/1
`¥aaa`a`X[X`a_VR][]^X[XNTT`^U¥¥S^UU¥^[]
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+HWI-EAS443:3:92:215:414#0/1
`baa¥aaaa_a^^^USU_aUZZ[[[W_Z[Z_Y_`^V¥W
@HWI-EAS443:3:92:222:1104#0/1
AAAGAAGTGGAGATCTAATGTCGCAGTCCCGCACTCGCG
+HWI-EAS443:3:92:222:1104#0/1
¥`¥_¥_¥a_ZXW]a_aa`^V`aaa^`a`[^`[`¥XV[Y
@HWI-EAS443:3:92:249:513#0/1
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+HWI-EAS443:3:92:249:513#0/1
abaaaaaaa_`aa^aa`aa^`_`a`_]a^__`a`^`^`
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+HWI-EAS443:3:92:250:1736#0/1
aaP`a`_aaa]aaabaaaa_`_`a]_]`a^aaaa`W_`
@HWI-EAS443:3:92:262:1525#0/1
ATTCTCAGAAAGGCAACCAGGAGATTGATCCAGTTGATAG
+HWI-EAS443:3:92:262:1525#0/1
a[a_a_]aZ[_¥][a¥S^_Y^_ZYX^]QY]]YVR`UG^B

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+HWI-EAS443:3:92:330:1928#0/1
````aaaab^`aa\_aa\_[aa¥baa\_aPaa^`W\_¥`aa\_^a  
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TGCTGTAATTGGGTATCTCATTGCCATCATCCACTTCATT  
+HWI-EAS443:3:92:350:152#0/1  
ab\_ab^`^b]aa\_T``]a]a```[Z\_\_\_\_`^XU^Y^^YY^^  
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+HWI-EAS443:3:92:356:652#0/1  
aaZQ```a\_aaa[][^`X[aa^\_\_\_\_`P]YY¥ZNR[¥QL  
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+HWI-EAS443:3:92:384:1123#0/1  
a\_OVX[NYaa`\_X]a`a`¥Y]\_^[\_Y\_a][¥[`\_\_T^YN`  
@HWI-EAS443:3:92:386:251#0/1  
GCAGTGTATTATATTGAAGTGTGCACTTAACCCAAGGGAC  
+HWI-EAS443:3:92:386:251#0/1  
`a]aZ`^aa]a`aaa]^`X`^aa¥\_Y`^`\_] ]^]\_Y^Y]  
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+HWI-EAS443:3:92:402:1468#0/1  
abaa\_`a^a`aa`\_a¥Y^^^\_Y]T¥¥`aXKOX\_a¥^]`\_  
@HWI-EAS443:3:92:420:1806#0/1  
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+HWI-EAS443:3:92:420:1806#0/1  
]ZZ]\_`aba^ZSUJ`abaa\_X]`\_\_[OP¥a`J]ZaOG^aW  
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CTGTAATTGGGTATCTCATTGCCATCATCCACTTCATTCT  
+HWI-EAS443:3:92:471:1046#0/1  
\_]QKV]Z^YZ]\_\_XTa¥NX¥`[XUSSVZ`VXW\_\_]^\_X]¥  
@HWI-EAS443:3:92:47:703#0/1  
ACAGCACACAGATTGGAGGAGTAAGGATGGTGGACATCCT  
+HWI-EAS443:3:92:47:703#0/1  
WZ\_`^`a¥QU\_baa``WNX]Z¥\_\_Q¥\_\_YWOFF]X]VWL[T`  
@HWI-EAS443:3:92:509:1179#0/1  
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+HWI-EAS443:3:92:509:1179#0/1  
¥abMb`b]bRaaV\_\_SaaYbWq]\_b^HS^aV[\_`0`\_\_Y]  
@HWI-EAS443:3:92:51:571#0/1  
GAATAAAAAGAAGTGGAGATCTAATGTCGCAGTCCCGCAC  
+HWI-EAS443:3:92:51:571#0/1  
aa```^`¥Sa\_\_Yaa`a`\_`aa\_[V`a]\_]\_\_a]\_]\_]^^]  
@HWI-EAS443:3:92:547:1262#0/1  
GTCGCAGTCCCGCACTCGCGAGATACTCACTAAGACCACT  
+HWI-EAS443:3:92:547:1262#0/1  
¥X`^^`[``]Ya`\_¥\_X`^^]`ZX]SY¥\_¥^^\_]`^¥W¥¥^  
@HWI-EAS443:3:92:632:1670#0/1  
GGGGACGTAGTGTGGTAATGAAACGAAAACGGGACTCTA

+HWI-EAS443:3:92:632:1670#0/1  
^^WWW\_WX]`I]^\_\_XN]X^\_Y`a\_WZ\_Z]X^TX¥VTXV]  
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TGCCCGTTAGCACTTCTTCTTTCTTGACTGATGATCC  
+HWI-EAS443:3:92:638:1076#0/1  
`^`aY]DPW[Y\_[\_aa`Z`a¥^YX[aa\_a\_a`Y]^aUZ^  
@HWI-EAS443:3:92:682:1256#0/1  
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+HWI-EAS443:3:92:682:1256#0/1  
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+HWI-EAS443:3:92:723:1992#0/1  
aaaaaXYT\_aa`aXa\_a`\_a[¥`¥\_]W`¥aV`¥Z¥\_NU¥]  
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+HWI-EAS443:3:92:743:1369#0/1  
`¥Z\_\_W^\_a]abbabaaaaab`a¥aaaa`\_\_aa`¥Zaa  
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AAAAGAAGTCTAATGTCGCAGTCCCGCACTCGC  
+HWI-EAS443:3:92:809:603#0/1  
`b[^ab^abbaba`babbabbUa^a```\_aab`\_aa\_\_]  
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+HWI-EAS443:3:92:810:1652#0/1  
[Uba^`¥bb¥^\_`ba^b[aaaaabba`Y\_ba``^JQJFL]  
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+HWI-EAS443:3:92:813:1006#0/1  
^aa]aab]L\_aaaa`]]^`a`\_a\_V[]aa`]`\_`aa\_a]  
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+HWI-EAS443:3:92:828:1580#0/1  
a`]aa^[aaaabVaa```aaZ\_\_aaa¥`a`\_Z¥\_[YY]^  
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CTTCCTGATGTGACTTTTTGATTATGGCCATATGGTCCA  
+HWI-EAS443:3:92:82:681#0/1  
aaa`aa]^`a^a]\_aaa\_aaaa\_\_Xa[]`\_^\_UVUVX]^  
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GCCGGCTACTGGGAGAAACCTTGTTTTACGGACCAATTCT  
+HWI-EAS443:3:92:864:641#0/1  
aba\_X]a¥NT^a\_R¥Q`X^S\_^`aadWUYUYSRYPX^¥\_  
@HWI-EAS443:3:92:878:1980#0/1  
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+HWI-EAS443:3:92:878:1980#0/1  
abab`\_a\_RS\_\_a]a`aaaa^a`\_a`Ua\_Z[`\_`[R]\_  
@HWI-EAS443:3:92:911:142#0/1  
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+HWI-EAS443:3:92:911:142#0/1  
`[]abaa]a`V¥``ab¥]a`\_¥\_Za\_\_a`a^XVaZKTTSS

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+HWI-EAS443:3:92:912:901#0/1  
Y]P\_¥Y]0¥ZaX]b`\_\_U\_aaa`YW]\_^¥`\_Y\_a`^]W^¥  
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+HWI-EAS443:3:92:934:1852#0/1  
aaWW[X`a\_bbbL\_\_aRaaa^aba`\_]``\_b`\_ab`^ba  
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+HWI-EAS443:3:92:944:428#0/1  
aba`a^\_¥Xa``\_a`a\_\_aaa`a^a\_\_`ZSa\_Ya`]`^  
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+HWI-EAS443:3:92:992:977#0/1  
ab`abbba`ZTW`a`Y`aYXaa`\_]`Xaaa\_^`]PT`a`¥  
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+HWI-EAS443:3:92:994:1364#0/1  
aaaT`b`baaaba\_b\_ab\_R¥aaV]U\_b^`Y^`]a`W]  
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+HWI-EAS443:3:93:1003:191#0/1  
aV]`VYX\_a]T¥^YX`a^]Y[^aYQVQUYSTVB BBBB  
@HWI-EAS443:3:93:1017:1823#0/1  
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+HWI-EAS443:3:93:1017:1823#0/1  
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+HWI-EAS443:3:93:1176:1092#0/1  
`aabb`aab]bba`]`abbab^a`\_ab^`\_aa`[¥][\_]X  
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+HWI-EAS443:3:93:1196:1273#0/1  
`W]T¥Y`a\_\_\_\_[\_\_\_\_aZYV]PZ^[[\_\_\_\_]]YY¥Y[[YXYV  
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+HWI-EAS443:3:93:1197:1382#0/1  
a\_^]a^a`aba`^a`\_`a^`XZU¥ZSU]^S]]W]\_G  
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+HWI-EAS443:3:93:1224:1954#0/1  
`baXS^W]Q]aaJ[\_^aNal]``\_a¥`S\_W\_\_OS¥^`Q^V  
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+HWI-EAS443:3:93:1224:560#0/1  
a[`a`aa\_a]a`a^a`a\_Z`aa`\_`aW\_]`\_]\_Z^]\_`^`  
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+HWI-EAS443:3:93:1229:1032#0/1  
a\_ba`abbaa`^a\_ba`aababbaaaa`aV`b^\_]¥\_\_R¥  
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+HWI-EAS443:3:93:1269:1452#0/1  
^a[]\_`SZ`^)^`Q`a`\_WP^b]a[G]T\_`^aa` `a\_HWa  
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GAAGAGCAGCAGTGTTCAGCAGACCCATTAGCATCTCTCTT  
+HWI-EAS443:3:93:1272:464#0/1  
a¥aa` ]^aa¥a`0`\_X[Z^[SZQ¥G^[^¥S^]\_U^TTGY\_  
@HWI-EAS443:3:93:1280:1521#0/1  
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+HWI-EAS443:3:93:1280:1521#0/1  
a¥` ` `b\_]a[^[G^a^` `S¥X^` `¥SYN[TZ^^ZUSSW¥¥  
@HWI-EAS443:3:93:1355:290#0/1  
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@HWI-EAS443:3:93:1359:718#0/1  
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+HWI-EAS443:3:93:1359:718#0/1  
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+HWI-EAS443:3:93:1363:742#0/1  
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+HWI-EAS443:3:93:1428:1710#0/1  
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+HWI-EAS443:3:93:1479:993#0/1  
a)`a]aa\_\_\_\_`\_PUa]]Z\_Y`¥WRH]X\_\_Y][XV\_R¥VY^  
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+HWI-EAS443:3:93:1493:467#0/1  
a`\_¥¥b`\_` `^a]` `a` ` `Za`W`W^`W\_¥¥WSW¥ZBB  
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+HWI-EAS443:3:93:1506:861#0/1  
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GGGACGTAGTGTGGTAATGAAACGAAAACGGGACTCTAG  
+HWI-EAS443:3:93:1558:567#0/1  
]S[NR¥]\_\_V\_U[\_^UY[TXYaXFQX^XFVZ^XUQNPV  
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+HWI-EAS443:3:93:1570:1904#0/1  
[a\_a`V`X]Xb^\_aTa¥` `XP\_aQ\_a[a0a0\_]V[UMUU

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+HWI-EAS443:3:93:1631:1346#0/1  
aaaa\_a`ab`b]^`a`^PV]a]XZ^VUa\$DU[\_\_\_YZ\_¥Y  
@HWI-EAS443:3:93:1677:149#0/1  
GACTTCTTCGGGAGACAATAGTACGTTCCCTCTTTGATCT  
+HWI-EAS443:3:93:1677:149#0/1  
aa\_aa[aa]aaa]\_`\_`\_]a^\_]W^X[W][^Z]WZR^  
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+HWI-EAS443:3:93:1733:133#0/1  
aaba\_\_`Zaa\_aaZabaZ\_^aa\_a^^\_ZZU\_\_`\_^X]^Z]  
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+HWI-EAS443:3:93:178:734#0/1  
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+HWI-EAS443:3:93:198:638#0/1  
a^aaaaab^[V]aaa\_V[]\_a^VZ\_\_\_ZS]Y^WTSMPYY]  
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+HWI-EAS443:3:93:205:555#0/1  
aaaa\_aaaa^a\_a^aaa\_\_`a\_a^\_`^````\_]`^\_^]\_X  
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+HWI-EAS443:3:93:212:434#0/1  
][Y\_]`P¥V`a\_¥VZ]Xa]aa]Za]^]a^Z[\_\_\_ZH¥`a  
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+HWI-EAS443:3:93:240:1366#0/1  
`\_b\_XaG¥SXS¥[U]\_P]\_\_\_`\_[`H¥¥U^H^U`¥¥[GRNN  
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+HWI-EAS443:3:93:241:787#0/1  
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+HWI-EAS443:3:93:245:936#0/1  
`\_TV\_\_\_ba\_^^`abb`]a]bab¥V[aaaa^a`aaV^PJV  
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+HWI-EAS443:3:93:250:413#0/1  
^a¥a[\_a`a¥Z`a\_\_abb\_]`baY¥a^aR`[¥X]VYT]]  
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+HWI-EAS443:3:93:257:376#0/1  
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+HWI-EAS443:3:93:266:216#0/1  
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+HWI-EAS443:3:93:269:246#0/1  
aa¥^OY[Taa\_]`UXRUV`a\_YY]TXRR¥SSWUTQZV\_^  
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AAAAGAAGTCTAATGTCGCAGTCCCGCACTCGC  
+HWI-EAS443:3:93:292:636#0/1  
``\_`b\_Z¥`^^`Wa\_]^XU\_\_`[^a¥^UNY`ZV]V^VY[\_  
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+HWI-EAS443:3:93:309:1349#0/1  
VVb`U\_V[bYbaZaaZ¥b``bbab¥][baab¥U\_aaa^aa  
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TGTGTACTTTTTGATTATGGCCATATGGTCCACAGTGGTC  
+HWI-EAS443:3:93:31:2027#0/1  
`b`b^\_aa`baaaaaaaaa`aaa\_`[^\_VSQPW`[U\_[I¥  
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+HWI-EAS443:3:93:320:1158#0/1  
aaabY`aa]aaa\_aaa`^`^`aaa\_\_a^`^`a\_a\_`^`^`  
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+HWI-EAS443:3:93:365:1023#0/1  
aaa^aaaaaa\_`aaaaa``aaaaa\_\_`a^````^a`]\_¥  
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+HWI-EAS443:3:93:368:578#0/1  
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+HWI-EAS443:3:93:36:194#0/1  
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+HWI-EAS443:3:93:380:1352#0/1  
aZ\_U]aQRJ][\_\_¥^ZU\_]X¥`XZQ[\_[XPXR^YSPMMXZ  
@HWI-EAS443:3:93:386:441#0/1  
ACTTTCAAAGGACAAGCGGATCATCAGTCAAGAAAGAAG  
+HWI-EAS443:3:93:386:441#0/1  
a\_aaa`aa^Wba^`\_`a\_b`\_\_a`^`a^`\_\_a\_\_`a\_]\_  
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+HWI-EAS443:3:93:421:1315#0/1  
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+HWI-EAS443:3:93:42:847#0/1  
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+HWI-EAS443:3:93:438:1617#0/1  
a`Z`baXN]aZWXyb^UPQa`\_`Xa¥``XZ¥[XTa[W¥HX  
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+HWI-EAS443:3:93:449:476#0/1  
YZ\_`XZ[U]aX¥[`¥\_a\_aa\_S]\_`a\_a^a`]M^V^[]WN  
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+HWI-EAS443:3:93:457:353#0/1  
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+HWI-EAS443:3:93:470:1342#0/1  
^a)`]FVV¥SbYOXW¥XQ`[WR¥]\_[^]\_HX\_XNXXYP]B  
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`P\_`aaa`a\_a[b`aaaa\_`aaaaa]]\_X\_a^]]^WZ]  
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+HWI-EAS443:3:93:503:1091#0/1  
aaaaa]aa\_`a¥a[aaa\_aVa]aa\_FS[aX[¥X][[]]\_`  
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+HWI-EAS443:3:93:54:1529#0/1  
a]]^a`]]]Va`^^`Y]Xa[^a\_\_\_VZZT\_`V[PRY]XU  
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+HWI-EAS443:3:93:558:813#0/1  
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+HWI-EAS443:3:93:623:597#0/1  
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+HWI-EAS443:3:93:695:87#0/1  
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a`aa`a\_aa`aa````a```a^`¥`a]WV^^X]]]X]X`  
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+HWI-EAS443:3:93:837:1096#0/1  
a\_aaaaa`[`aaa\_a\_a^`\_a¥^aa^^`a\_\_\_\_\_^]\_^]Y\_`  
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+HWI-EAS443:3:93:841:1428#0/1  
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aaaaaab^aa\_\_aaaa`aaaa`a\_a\_aa^[\_^]a\_]Y¥a  
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+HWI-EAS443:3:93:888:1541#0/1  
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+HWI-EAS443:3:93:889:1103#0/1  
aaa``aaaaaa`baaa\_\_a```\_\_`aaa]a\_a]¥aUU¥V



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¥¥ZWP\_`\_00\_R`]a^`a^YP[ `[VZ[X]Raa]¥]]¥TW  
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+HWI-EAS443:3:93:966:954#0/1  
a¥a\_`aaY\_\_a\_X¥``¥``\_\_``^^a^\_\_[U\_^`XX\_^¥  
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+HWI-EAS443:3:94:1030:1355#0/1  
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+HWI-EAS443:3:94:1030:1453#0/1  
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+HWI-EAS443:3:94:1057:939#0/1  
a¥¥abaYb`\_aaaX^]]`aa]`a\_a¥b[``aa]aaR\_] ]\_  
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+HWI-EAS443:3:94:1095:1330#0/1  
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aaaaaa\_aa`aaa\_aaaaa\_b\_^a\_\_aU^\_^\_¥W\_^\_¥`  
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+HWI-EAS443:3:94:1144:705#0/1  
\_`^`\_H]`aa[U¥QX¥^TV¥a`]^¥¥UP`U\_X`^Y¥`S\_Q\_  
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+HWI-EAS443:3:94:1150:1295#0/1  
aa`ZQW[[[Z]`aYFWL[aVZ^[Q\_^SV\_\_V^ZTLQ Nus  
@HWI-EAS443:3:94:1150:991#0/1  
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+HWI-EAS443:3:94:1150:991#0/1  
^b^`aa`bS\_aaaa\_a\_^\_aaa`a`^`W]Z]Z`Z^¥X¥^\_  
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+HWI-EAS443:3:94:1244:1460#0/1  
a\_`¥[P[^RP¥KUU\_\_WaZ[^\_\_`N[^¥\_^\_\_¥KX^^¥^]  
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+HWI-EAS443:3:94:125:751#0/1  
aaaaa^`\_`aaabaaaaaa]```a`\_\_a^\_^\_\_\_[XY[\_^  
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+HWI-EAS443:3:94:1276:328#0/1  
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a¥a^^`¥`b^^aaY`\_aa\_abZ\_Y^`S\_`^]QZMV[[  
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+HWI-EAS443:3:94:1302:422#0/1  
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^`Ua^b][S]`\_[^J^aaabb`Paa`]¥]UVR[^GZ[`T\_  
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a^baVXabababV\_a[a`\_bb`ZNV[^`^P[^¥\_\_TZ`^V  
@HWI-EAS443:3:94:1362:26#0/1  
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+HWI-EAS443:3:94:1362:26#0/1  
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+HWI-EAS443:3:94:1401:1810#0/1  
``\_Z`T\_RH¥aa\_Z\_R`a\_Q[R\_U\_U[^V```V`¥H\_\_WF

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+HWI-EAS443:3:94:1415:1458#0/1  
aaaaaTa]¥a`a\_R`a\_\_\_`\_aNU\_\_Va^^R`^^^O]\_\_\_  
@HWI-EAS443:3:94:1441:1199#0/1  
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+HWI-EAS443:3:94:1441:1199#0/1  
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aa]a\_aa`aY\_aa\_aa\_Ya\_`a`^a`Yaa`aX\_Va\_\_\_^Y`  
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a`^aa`aaa`¥aa\_a]a^a\_a^aaMaa¥]XXW^\_]^^SU  
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+HWI-EAS443:3:94:1566:2041#0/1  
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a^Zbaa^\_bba]Z`aa^aaa\_baaa[a`XaPX`a\_a\_`a\_  
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+HWI-EAS443:3:94:1651:1210#0/1  
aba]^^abY\_`[`b¥[¥]bba`\_P`¥a\_\_Paaa[R`]]^[R  
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+HWI-EAS443:3:94:1732:816#0/1  
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+HWI-EAS443:3:94:1738:1955#0/1  
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+HWI-EAS443:3:94:1764:662#0/1  
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+HWI-EAS443:3:94:1785:1087#0/1  
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\_^baaU^bbaZabababb]\_aa\_aaa\_]a\_^a[\_\_\_ZY]Z  
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+HWI-EAS443:3:94:204:816#0/1  
abXI\_[V]\_\_T`bR^\_```aaa\_\_^[]^W[]`\_¥Y[^YO  
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+HWI-EAS443:3:94:231:15#0/1  
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+HWI-EAS443:3:94:231:692#0/1  
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+HWI-EAS443:3:94:263:1742#0/1  
aaZ]ZOQW[]WZW]^W^Z]a`YW\_WY[X[```YYOQaYZ`  
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+HWI-EAS443:3:94:265:225#0/1  
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+HWI-EAS443:3:94:277:1936#0/1  
ab¥U¥V\_YT¥b^X¥`bbaa]Z`]U[\_baa^`a¥ZZ¥a^`a  
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+HWI-EAS443:3:94:28:508#0/1  
aaa`\_a[aaa\_¥`X`\_a]J[¥^`\_`VUQ\_\_`\_\_\_W¥¥V  
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`¥aWКУ\_aa`\_WT^]^\_a^]^¥¥^]\_V`X^]]^WW]]U  
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^`bbbaaaaa\_¥`aaaaabaaaa\_a^`aaWa\_a]\_\_^\_  
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+HWI-EAS443:3:94:403:317#0/1  
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+HWI-EAS443:3:94:418:669#0/1  
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+HWI-EAS443:3:94:480:416#0/1  
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+HWI-EAS443:3:94:485:207#0/1  
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+HWI-EAS443:3:94:511:1808#0/1  
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+HWI-EAS443:3:94:531:742#0/1  
a\_W`Z`T`X\_^ZT]V][[]]¥P]]^`aZ]S^W\_`ZQQZ  
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+HWI-EAS443:3:94:573:27#0/1  
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¥a\_aVa[YSbRSZ]GSU\_^ZXOXa¥T^F[\_SSLW¥PM]B  
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aa`aaa¥aa`b\_\_a^\_YZ^\_a^`a^\_aaa[\_a` `a^^`^M  
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aZ[a\_aZaa]aaY`\_\_Z\_]aa\_aY]^]]`]]Y^YU]XQVW  
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a^YYRaQ^\_W\_¥P`][`aa^a[Z[G^V[a` `^¥QQY^¥YR  
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a` `a]]]``[aaa`a`Y\_`a` `aZY\_\_aaaa`aYVa¥¥Wa  
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[^`]a[Y`a^]X¥X\_¥aaa\_N¥]]`\_\_[^N^[]R]\_\_\_\_WV  
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+HWI-EAS443:3:94:842:1200#0/1  
aaaa\_aa`[ `[]\_Y]a` ` `aaaa` `aU^T]\_`¥[\_Z\_T  
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+HWI-EAS443:3:94:904:1056#0/1  
a\_\_`a\_aa^\_\_`\_`\_]a^]XV[^¥¥\_W\_¥¥SX¥WUS¥S¥WW  
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a\_aab[aaaa`\_\_`]]`Z\_\_a\_`^[\_Z^XR\_Z\_V[\_\_\_Z[V  
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GCACTTTTGCATCTTTTTGGAAATGCCTCAAGAGTTGGTG  
+HWI-EAS443:3:94:923:167#0/1  
a`a\_aaaaa^`^`^aaa` `a\_\_\_` \_\_ZY\_\_]^ \_]\_Y^`^Y`  
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GTCGCAGTCCCGCACTCGCGAGATACTCACTAAGACCACT  
+HWI-EAS443:3:94:946:351#0/1  
a^aa¥aaY\_^a`^]`\_\_^` ` ` \_^^^¥\_¥^^^\_¥WY]¥¥  
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+HWI-EAS443:3:95:1086:1908#0/1  
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+HWI-EAS443:3:95:1086:544#0/1  
aa`b\_abaabba\_[[abaaaa`aa`b^b` ` ` `a` `S]L]`



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a^`\_`\_aaY\_\_^Za\_a\_\_`\_^^\_]\_YXHXV^0^[XBBBBB  
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+HWI-EAS443:3:96:353:1613#0/1  
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+HWI-EAS443:3:96:461:20#0/1  
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+HWI-EAS443:3:96:528:327#0/1  
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+HWI-EAS443:3:96:528:419#0/1  
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SY\_Q\_a^\_a]YV` `bb]`W\_` `a[[V\_¥a^X[\_`\_[] []  
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+HWI-EAS443:3:96:657:209#0/1  
abab`aa\_\_Z`W^a¥¥^`aa`a`]¥NW\_YPF^\_V^^W\_[B  
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+HWI-EAS443:3:96:687:968#0/1  
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`baG\_bRN¥ab\_a`baabU\_`^`\_`\_a[Z^a`\_`\_aZ\_aa`\_`  
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CAGATGTGCCTTCATCTGGATCTTCAGTCAATGCACCTGC  
+HWI-EAS443:3:96:824:406#0/1  
aab`bb`^a`ab[aaa¥aaaa\_baa`a]\_a]]a^``]\_`Y  
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+HWI-EAS443:3:96:842:852#0/1  
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aXQTa]\_`¥aaa`\_`aa[¥Ya\_V`aaW^aYY[¥Z`RN^BBBB  
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+HWI-EAS443:3:96:91:598#0/1  
aabba]a`baaaaa\_aaaa`ab`\_`a\_aa¥\_¥\_`^`\_`\_Z\_`  
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+HWI-EAS443:3:96:950:324#0/1  
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a[a`\_b[aa`ab\_`aa\_X^\_W^a\_¥^)`\_YZ[`SP]X][R  
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^`baab\_]abab\_aaaaaaabaababba\_[]YY^`]]`  
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a\_a¥^bb\_a`b^aaUV\_aaZN^bZRL^VZ[\_]SU^\_`a`  
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aaa\_a\_`]b``baa]a`b`aaa¥^a¥\_aX\_]T]¥\_X\_U  
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aa`aa`a^aa¥aaaa\_\_aa`a`¥aa\_aa¥]^\_a¥a^a\_¥\_  
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aba¥¥Vaabaa^Q^baaaaJ\_]a`bb`^^`aa\_a]]a^``  
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abaa`a`aaa`aaaa¥aa\_aa\_aa¥a`]¥^\_[¥¥^`^WW]  
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+HWI-EAS443:3:97:1382:1159#0/1  
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+HWI-EAS443:3:97:140:881#0/1  
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+HWI-EAS443:3:97:1429:757#0/1  
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+HWI-EAS443:3:97:1476:817#0/1  
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+HWI-EAS443:3:97:1493:1598#0/1  
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+HWI-EAS443:3:97:168:136#0/1  
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+HWI-EAS443:3:97:1699:58#0/1  
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+HWI-EAS443:3:97:171:89#0/1  
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+HWI-EAS443:3:97:175:1661#0/1  
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+HWI-EAS443:3:97:196:1512#0/1  
a\_a\_^abaaaaaaaaaaaa`\_\_\_Na\_H\_X^[\_`^V`\_0#\_  
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+HWI-EAS443:3:97:276:1123#0/1  
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a]]b]\_^\_]ab]`aUb\_aWa^MXZ]a\_\_^`RS¥FM¥Z\_¥\_  
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@HWI-EAS443:3:97:367:1258#0/1  
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+HWI-EAS443:3:97:367:1258#0/1  
aaaa````\_^^^)`\_`a\_`\_`\_\_\_`[R`[\_YV]`)]`\_[YV  
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@HWI-EAS443:3:97:421:1987#0/1  
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+HWI-EAS443:3:97:421:1987#0/1  
W]RYXZ`\_\_\_\_\_¥`a`\_`Z\_T\_`ab\_a\_VY\_W]aaWW\_Wa]  
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+HWI-EAS443:3:97:421:480#0/1  
a`X`[[U^¥]]^)`Y[Z¥¥`Y¥0QYJVT]UY^ZOPDWZB  
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ATGTGCGAGTCCCGCACTCGCGAGATACTACTAAGACCA  
+HWI-EAS443:3:97:423:678#0/1  
a\_b]a]aa`U[aaaa]^]aaa¥aaTP]\_\_Q`U]```\_¥[\_

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abba`bbba\_ZW[a\_`aa\_aaaaU`aa\_a\_\_aaa\_a^a[  
@HWI-EAS443:3:97:465:1072#0/1  
CAGTGGTCTTAGTGAGTATCTCGCGAGTGC GGACTGCGA  
+HWI-EAS443:3:97:465:1072#0/1  
a\_b¥YbUbbabbTbbb^^`aUbaS`abVbb`a^`I\_[Ra[  
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CCAACAACAAGTACAGTTCATTACCCTAAGGTATATAAAA  
+HWI-EAS443:3:97:470:1840#0/1  
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aa[`[abbab\_a\_`a`aaaab`aaaa\_a\_Vb¥U`aaa[\_U  
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+HWI-EAS443:3:97:54:857#0/1  
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+HWI-EAS443:3:97:672:1850#0/1  
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+HWI-EAS443:3:97:700:108#0/1  
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+HWI-EAS443:3:97:731:855#0/1  
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+HWI-EAS443:3:97:757:859#0/1  
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+HWI-EAS443:3:97:79:603#0/1  
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aaba`aVa``a^_a`aaa`_a_W_YVK[_^aa_a_^`^^

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+HWI-EAS443:3:99:173:502#0/1
`^`Wb`bbb`aab`^V^b`aaa`aa`a_aa^_WaSO_a_
@HWI-EAS443:3:99:1751:380#0/1
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+HWI-EAS443:3:99:1751:380#0/1
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@HWI-EAS443:3:99:1755:987#0/1
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+HWI-EAS443:3:99:1755:987#0/1
aaaa`a`a`b[aaaaaa_aa`aa_Z_]`_^XX_^__^]_
@HWI-EAS443:3:99:1756:646#0/1
AAAAGAAGACTGAGAGATCTAATGTCGCAGTCCCGCACTCGC
+HWI-EAS443:3:99:1756:646#0/1
abaa`a_b]a`aaaa_aaaa]]_U_aXX]_X`_^YT]X
@HWI-EAS443:3:99:1761:2016#0/1
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+HWI-EAS443:3:99:1761:2016#0/1
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GGGGTGGAGTCTGCTGTCCTGAGAGATTCTCATTTTGG
+HWI-EAS443:3:99:179:860#0/1
aa`aU`_U¥W^aa__a¥]____[`^`T``_¥_¥S¥`¥^¥_
@HWI-EAS443:3:99:197:718#0/1
CACGTCCCTTGGGTAAAGTGCAACACTTCAATATAAACAC
+HWI-EAS443:3:99:197:718#0/1
_SWa_aa]`XWROR]`¥DR¥W^VOG[^`__UTZGXBBBB
@HWI-EAS443:3:99:203:46#0/1
ATTTCTCACTTCTCCTCCTGGAGTGTACATCTGCTCCCAG
+HWI-EAS443:3:99:203:46#0/1
`abb`aa__a`a`a]````]`Za[`````_a`PTXBBBB
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+HWI-EAS443:3:99:217:1095#0/1
abbbbaba_a``abbab`aa^]aaaa`a`Xaaa[`Y[_]a
@HWI-EAS443:3:99:233:637#0/1
GTTCACTTTCAAAAGGACAAGCGGATCATCAGTCAAGAAA
+HWI-EAS443:3:99:233:637#0/1
`F¥YX¥aY¥^aVMVaXG`^`aT^_RNWX]Z[`VY¥Z^^ZX
@HWI-EAS443:3:99:235:610#0/1
TGGCCATATGGTCCACAGTGGTCTTAGTGAGTATCTCGCG
+HWI-EAS443:3:99:235:610#0/1
aabaa`aaba`aaaaaa`aa¥_aa`a¥aadW``]`^`^U`
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ACTAAGACCACTGTGGACCATATGGCCATAATCAAAAAGT
+HWI-EAS443:3:99:245:210#0/1
aabaWba`a_]aba`a`Z__`_a`XZ_¥^^^X]]^S^UW
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+HWI-EAS443:3:99:288:1129#0/1
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+HWI-EAS443:3:99:290:835#0/1
``]_ba[Z`[YH[baT0Zb[Xa^PaRZU``a``U_`[^`b
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+HWI-EAS443:3:99:307:709#0/1
aa``]abb¥aaaa_aaZY_bQV[¥^Z¥XV^]]`^ZaRT^
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+HWI-EAS443:3:99:322:1995#0/1
ab`bbbbbabbbbab`aba`^`aaabaaab```aaa`^aa
@HWI-EAS443:3:99:333:1625#0/1
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+HWI-EAS443:3:99:333:1625#0/1
ab_aaabab`bb`babab_baba^ab`aa^a`Ua`P`^_]`
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+HWI-EAS443:3:99:358:271#0/1
aba]bb`bbabbaaXZ__a``XaXb``¥`^]___U`_`^^
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+HWI-EAS443:3:99:373:625#0/1
aabba_aa_aaaa`a`b__aaa^`_aZa`^_``aa_a]`^
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+HWI-EAS443:3:99:393:1260#0/1
`bbbaab]babbbba_abb`_`babab]b``b]Vba`ZZ^`
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+HWI-EAS443:3:99:395:1774#0/1
I¥a^ZOU]bb`b`Z¥]_[_bb`T```P¥PXTH¥T¥_XW_]`
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+HWI-EAS443:3:99:408:896#0/1
abaaaaababaab```abaaa```]`aa```a_a_a_`^a
@HWI-EAS443:3:99:437:945#0/1
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+HWI-EAS443:3:99:437:945#0/1
a`Q_`^^Zb`aabTbbaaaX`aaZaaa^¥bZ`U]TX_[]`
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GAATAAAAGAACTGAGAGATCTAATGTCGCAGTCCCGCAC
+HWI-EAS443:3:99:496:1689#0/1
aaababbbbababababaaa_abbba_aa]aa]___^VS_
@HWI-EAS443:3:99:508:476#0/1
GGCGTACATGCTAGAAAGAGAATTGGTCCGTAACAAGG
+HWI-EAS443:3:99:508:476#0/1
a`_ba`_`^`ba`_`a^aa`ab¥^aa```a]XaZ`aa_L¥]b`

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+HWI-EAS443:3:99:523:1987#0/1
aba`ZZaabaa`baababa`babab_aa_`ZNX`^`G__X
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+HWI-EAS443:3:99:559:1491#0/1
_^`bbbbbbbababa`bbabba``abaaaaaabb`ba_ba__
@HWI-EAS443:3:99:560:1975#0/1
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+HWI-EAS443:3:99:560:1975#0/1
`_a_ZZ]__¥XZ_VS¥]¥`Y_VVb``Tq]a^UO_X__[[Y
@HWI-EAS443:3:99:570:299#0/1
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+HWI-EAS443:3:99:570:299#0/1
aaaa[`^`a__¥````__]```a^aaX]_]`QTPXZUWY
@HWI-EAS443:3:99:660:463#0/1
AAAAGAACTGAGAGATCTAATGTCGCAGTCCCGCACTCGC
+HWI-EAS443:3:99:660:463#0/1
aaX^aa`````abaaba`aabb`]a^a`]a`a^a_`ZYa_
@HWI-EAS443:3:99:724:1376#0/1
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+HWI-EAS443:3:99:724:1376#0/1
a_a``aba¥`aa`aa`_a__a`ba`_aaa_a`¥___`]a`
@HWI-EAS443:3:99:789:123#0/1
GTCCTTGTTCAATCCTCTCTGGAATCATGTCCATTATTCT
+HWI-EAS443:3:99:789:123#0/1
`[U`abaX^`_aaX`a`aa`a[___`_``_^^]_^`^`^^]
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+HWI-EAS443:3:99:855:1049#0/1
aba_b`¥babaa¥Y^ba¥¥_T`aV_^___W_¥^¥YG¥XBB
@HWI-EAS443:3:99:859:1261#0/1
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+HWI-EAS443:3:99:859:1261#0/1
a_R_a]abbaa`abaaba_babb`aa`_a`aaaa_aaa
@HWI-EAS443:3:99:870:799#0/1
GGTGGAGTCTGCTGTCCTGAGAGGATTTCTCATTTTGGGC
+HWI-EAS443:3:99:870:799#0/1
V_I__SaaW_b][_SaYSW¥ZZb`T`][ab`a`Z]]aaaa
@HWI-EAS443:3:99:882:404#0/1
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+HWI-EAS443:3:99:882:404#0/1
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+HWI-EAS443:3:99:908:1244#0/1
]W¥¥¥_V¥YYR¥XH_b_Ybaab`Z`babbTVbIb`HXa`]
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+HWI-EAS443:3:99:92:1455#0/1
aT_a`a`aUS^`a__[0`¥]`XTP^UTP¥¥W¥_¥]XSBBB
@HWI-EAS443:3:99:936:1351#0/1
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+HWI-EAS443:3:99:936:1351#0/1
aa_`[_]aa]Ya0__a_Sa`a¥_¥[YX_Z¥_`PX]_^]`_
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GATGATGGCAATGAGATACCCAATTACAGCAGACAAGAGA
+HWI-EAS443:3:99:963:515#0/1
aYO¥RW`bVM[b]^M]^b_V]^W__Z¥`^aa]_a[a`a`
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+HWI-EAS443:3:99:980:441#0/1
abaaa¥bbbbbaab[bbabaabbaaaa`aaa_aZ``a`a`
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CTGTAATTGGGTATCTCATTGCCATCATCCACTTCATTCT
+HWI-EAS443:3:99:991:113#0/1
aV`aabb_[¥YbVVX[UZ¥ZZ]Xab^Ub___NTaGSZYF]
@HWI-EAS443:3:9:1005:1248#0/1
TGGTCTTAGTGAGTATCTCGCGAGTGCGGGACTGCGACAT
+HWI-EAS443:3:9:1005:1248#0/1
`ab_`a^ab[_`baa_]_[`]_[aRXO¥¥aQR^ZZ_ZPY`
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+HWI-EAS443:3:9:1008:485#0/1
`b`V`¥_aa_baaaYbbaab_Zb^_aJ]aV]XL¥UN]]aZ
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+HWI-EAS443:3:9:1013:2020#0/1
aaa`a``aaaaa_a]``aaY_a`^__`^_Y]_]N_J_W^
@HWI-EAS443:3:9:1021:1244#0/1
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+HWI-EAS443:3:9:1021:1244#0/1
Y`aa`¥Ybbbb_baa_`TXSRY]YW`ZR]_GK__VUDS
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+HWI-EAS443:3:9:1027:751#0/1
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@HWI-EAS443:3:9:1028:1337#0/1
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+HWI-EAS443:3:9:1028:1337#0/1
a_aa_aabaa_aaP`aaaa`a__a^`a^a^]`R^]_^_]U
@HWI-EAS443:3:9:1052:279#0/1
GTGGATGATGGCAATGAGATACCCAATTACAGCAGACAAG
+HWI-EAS443:3:9:1052:279#0/1
a[`^R[^Y]^a]W^^`R]^Z^X^Z]^Z^ZGXZW]^Z^Z]]

@HWI-EAS443:3:9:106:470#0/1
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+HWI-EAS443:3:9:106:470#0/1
a`aaabbbbaaaaaaaaaaba_`H`a`b]]``^`V`___^R¥
@HWI-EAS443:3:9:1070:462#0/1
AGAGGATTTCTCATTTTGGGCAAAGAAGACAAGAGATATG
+HWI-EAS443:3:9:1070:462#0/1
a]^`aabb`aaaabaaab`a_aV¥_aa```aaa`__aa
@HWI-EAS443:3:9:1072:1674#0/1
TAAACACTGCCTGTTCCGCCGGCTACTGGGAGAAACCTTG
+HWI-EAS443:3:9:1072:1674#0/1
aaba`a_aa`_ab_aa`aa¥`X]a_G^[a^QaT_`WNQ¥`
@HWI-EAS443:3:9:1079:657#0/1
TGCTGTAATTGGGTATCTCATTGCCATCATCCACTTCATT
+HWI-EAS443:3:9:1079:657#0/1
a__ab_`¥_aaaa)``Y__aa_Z[]``UY^ZUYV_^Y]`^
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+HWI-EAS443:3:9:1089:932#0/1
`[aaLQ[`_Va_ZU___^`Ua`_^]_aSPL[]ZR^V^PPS
@HWI-EAS443:3:9:1112:603#0/1
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+HWI-EAS443:3:9:1112:603#0/1
aaa]aaa¥[_aaa^`__a`a^_^^^`__^``Z^_`]WZ^]
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GTCCCCTTTTCGTTTCATTACCAACTACGTCCCCTTGCC
+HWI-EAS443:3:9:111:1689#0/1
a^`¥Z_OS^aa_ZY_X_`]WZTX^¥`Y¥`OQNQP[VYV¥Y
@HWI-EAS443:3:9:1125:913#0/1
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+HWI-EAS443:3:9:1125:913#0/1
ab]^`Z`¥`]X_Z_]`a]`¥¥_`^[_^`X__^`^^¥_a
@HWI-EAS443:3:9:115:1906#0/1
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+HWI-EAS443:3:9:115:1906#0/1
aa`^`__`aaYa^^W_^a]_^W`O_^OTTU`OXR_Z]WXB
@HWI-EAS443:3:9:1195:1518#0/1
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+HWI-EAS443:3:9:1195:1518#0/1
`aabaabab_a_aaa`aaaa_ba_aa^W`_`aYV_]`^Y¥¥
@HWI-EAS443:3:9:1211:1507#0/1
GAGAATAAAAGAAGACTGAGAGATCTAATGTCGCAGTCCCGC
+HWI-EAS443:3:9:1211:1507#0/1
a^a_^a_Y[_^_VP_`_a`_^]VY_]`¥¥Y¥^]`^UTOFOR
@HWI-EAS443:3:9:1228:549#0/1
GAGAATAAAAGAAGACTGAGAGATCTAATGTCGCAGTCCCGC
+HWI-EAS443:3:9:1228:549#0/1
a¥Y[____[`____U`a]__Z__[_]^`Y^^^`YYVV]]
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GTACTTTTTGATTATGGCCATATGGTCCACAGTGGTCTTA

+HWI-EAS443:3:9:1271:680#0/1
`HRV¥` `¥SZ` `X_X[UW¥PVRNQMFQ[XPSJY[GQVBB
@HWI-EAS443:3:9:1321:614#0/1
AAAGAAGTCTAATGTTCGAGTCCCGCACTCGCG
+HWI-EAS443:3:9:1321:614#0/1
abaaaababbbbaaZb`bbb` `^ab^_Ua` `__aX^_a
@HWI-EAS443:3:9:133:277#0/1
AGGGGACGTAGTGTGGTAATGAAACGAAACGGGACTCT
+HWI-EAS443:3:9:133:277#0/1
abab_` `bOX^I^_ab^0[]__VZ[JZX¥`XU]]a]UTXB
@HWI-EAS443:3:9:1346:205#0/1
AGCAGTGTGAGACCCATTAGCATCTCTCTTGAAATG
+HWI-EAS443:3:9:1346:205#0/1
aa`aa[_X¥aa_a`V` `aaa__Q]__U` ¥`N` aY__¥¥^`
@HWI-EAS443:3:9:1388:1643#0/1
GCCCCTAAGTCTGATCATGCAATCCTCTTGAGAAAT
+HWI-EAS443:3:9:1388:1643#0/1
__b^Rbb_Z[b^]bbab¥ZaaY^aa`^]a`aaba`aa_aa
@HWI-EAS443:3:9:1400:1304#0/1
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+HWI-EAS443:3:9:1405:1454#0/1
`aaaaabababQ_LXa]`baaa[_aa_aaUS_]S]W`G]¥
@HWI-EAS443:3:9:1459:509#0/1
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+HWI-EAS443:3:9:1459:509#0/1
a____` `a__a` `aaaa_XZa¥_aY__¥^^]a` ` `RS_Y
@HWI-EAS443:3:9:1492:1513#0/1
CCCGTTTTCTTTCATTACCAACTACGTCCCCTTGCCC
+HWI-EAS443:3:9:1492:1513#0/1
YJU`Y`S` `aaaaYa]]__XX[_^[_a`V`UO[SMZ_^FFQ
@HWI-EAS443:3:9:1557:1208#0/1
GCACTCGGAGATACTACTAAGACCACTGTGGACCATAT
+HWI-EAS443:3:9:1557:1208#0/1
aaaabab` `abaa` `aaa_aaaaa]aa_aa]` `__^` `__`
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+HWI-EAS443:3:9:1575:1297#0/1
aaaaa]`abaaaa__¥aaZaa`¥¥` `]¥__aZUX_¥^W_
@HWI-EAS443:3:9:1631:537#0/1
CTCGGTCTGATCCAGCATCGTTTGTGCTCCAGAGGGT
+HWI-EAS443:3:9:1631:537#0/1
`baab`]^` ` _0_¥_]b]Xa`a[` `ab`XT00VZ`P]`X^
@HWI-EAS443:3:9:1641:1252#0/1
CGCACTCGGAGATACTACTAAGACCACTGTGGACCATA
+HWI-EAS443:3:9:1641:1252#0/1
^`_LWa`b]aabaa` `baabaaa[T[a^`a[` `ZWY_`¥

@HWI-EAS443:3:9:187:1192#0/1
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+HWI-EAS443:3:9:187:1192#0/1
abaa]]]aba`a_]`^aaaa`aa``aaa_aaa`a`a_`__
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CTCTTATTTTCAGTGTGGAGGTTGCCGTTAGCACTTC
+HWI-EAS443:3:9:192:222#0/1
abababaabab^`^aXaaaa[a__`a``aW_]`ZZY__Y
@HWI-EAS443:3:9:224:1439#0/1
AGCACTTTTGCATCTTTTGGAAATGCCTCAAGAGTTGGT
+HWI-EAS443:3:9:224:1439#0/1
^aa`Y^^^aa``aaa^¥YU]_`aZ[aZZ`a]`W`Z^R
@HWI-EAS443:3:9:224:263#0/1
TGCTGTAATTGGGTATCTCATTGCCATCATCCACTTCATT
+HWI-EAS443:3:9:224:263#0/1
IaZX[OQXU[[¥VP[^aS]aWV`TaZZ_aTa`U``_a_Y_
@HWI-EAS443:3:9:233:475#0/1
GTCCCGTTTTCGTTTCATTACCAACACTACGTTCCCTTGC
+HWI-EAS443:3:9:233:475#0/1
a]XX_aX_]_]_X__X¥_`^`_]`^_¥]]]ZWRU^UY^Y
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+HWI-EAS443:3:9:246:848#0/1
ab`a`aab`aaaa^baaab^_a`aaXaa`__Q_X_^[_
@HWI-EAS443:3:9:259:1687#0/1
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+HWI-EAS443:3:9:259:1687#0/1
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@HWI-EAS443:3:9:337:842#0/1
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+HWI-EAS443:3:9:337:842#0/1
aZaaa]aa`aaaaZa`aa[]aaa_]`^a_abaW___¥_¥^
@HWI-EAS443:3:9:373:209#0/1
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+HWI-EAS443:3:9:373:209#0/1
UR¥baa_Z_[aaa`aabaab¥aa_ab_a__a¥__V_]_`
@HWI-EAS443:3:9:378:613#0/1
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+HWI-EAS443:3:9:378:613#0/1
ab`a[_ba`ab`a_Xb`a]`aaa`[_aaaZP¥`___NS_`
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+HWI-EAS443:3:9:428:552#0/1
a`_`babaababab_abaabbba``aa_ab`a`¥baa`a`a
@HWI-EAS443:3:9:443:1394#0/1
GTCGCAGTCCCGCACTCGCGAGATACTACTAAGACCACT
+HWI-EAS443:3:9:443:1394#0/1
a^`_`aa^aa`^`^^__¥`¥Y]^[]U[_`^YW]^¥UbXUB
@HWI-EAS443:3:9:449:328#0/1
GTCCCGTTTTCGTTTCATTACCAACACTACGTTCCCTTGC

+HWI-EAS443:3:9:449:328#0/1
]OQEVVYX_abXXN]XX^UJUPSXSBBBBBBBBBBBBBBB
@HWI-EAS443:3:9:479:47#0/1
AAAGAAGTCTAATGTCGCAGTCCCGCACTCGCG
+HWI-EAS443:3:9:479:47#0/1
aaaa]¥^aa`__a`_]_`_`Y^_]_^V]YXXYYXXYYY
@HWI-EAS443:3:9:498:969#0/1
AAAAGAAGTCTAATGTCGCAGTCCCGCACTCGCG
+HWI-EAS443:3:9:498:969#0/1
abbbaaa_aaaa_a`__abaaa_a__aaU_Za_^^_^_]_]
@HWI-EAS443:3:9:49:429#0/1
CAAGGGAGCAATTTTACAATCCTGGAGCTCTTCTTCTTC
+HWI-EAS443:3:9:49:429#0/1
a`[baaaaa]a`a`¥aaaa_`_^MaU`^`a^`a_````]
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+HWI-EAS443:3:9:502:952#0/1
aaabbabbbaa`baaaaa`aba_`a_a`_`aY_]_[_X
@HWI-EAS443:3:9:516:1372#0/1
ATACTACTAAGACCACTGTGGACCATATGGCCATAATCA
+HWI-EAS443:3:9:516:1372#0/1
a^a]]aZ¥`a]]^`^`X_`]a`_`^X]a]_^ZZMX^
@HWI-EAS443:3:9:51:1254#0/1
GGCCATATGGTCCACAGTGGTCTTAGTGAGTATCTCGCGA
+HWI-EAS443:3:9:51:1254#0/1
`bbbbabbbaa¥bba^^^```aabaa`aba]`a`¥Y_]_X
@HWI-EAS443:3:9:554:667#0/1
ATCTAATGTCGCAGTCCCGCACTCGCGAGATACTCACTAA
+HWI-EAS443:3:9:554:667#0/1
aaaaa^aa_`a_Z`Z`aa[^S_]^W__V^WS]S^¥¥WU¥¥
@HWI-EAS443:3:9:581:564#0/1
GTCCCGTTTTTCGTTTCATTACCAACTACGTCCTTGC
+HWI-EAS443:3:9:581:564#0/1
a]]VJHLQXV]NYVZa¥JQU[___ZU[RRURYLLTYRLFVS
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+HWI-EAS443:3:9:656:521#0/1
I`T^]]Z[^[PV¥Xa`X]]Ya`[[R¥_a¥_Ia¥RUUT_
@HWI-EAS443:3:9:67:1479#0/1
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+HWI-EAS443:3:9:67:1479#0/1
aaa`a`¥a_aa`a__aa`a_a__Z]_a_[`]a^`a[OZ`U
@HWI-EAS443:3:9:724:995#0/1
AAAGAAGTCTAATGTCGCAGTCCCGCACTCGCG
+HWI-EAS443:3:9:724:995#0/1
^`[a`_V]b^`b_]XZ_^]Z]NRQLQOQY¥[GTRWKT
@HWI-EAS443:3:9:728:987#0/1
CCGCACTCAGAATGAAGTGGATGATGGCAATGAGATACCC
+HWI-EAS443:3:9:728:987#0/1
abbaa¥aaba[_`RZab^a¥¥`a¥M[_`_`aaa^__[_R¥[

@HWI-EAS443:3:9:729:259#0/1
AAGAAGTCTAATGTCGCAGTCCCGCACTCGCGA
+HWI-EAS443:3:9:729:259#0/1
_^\\$W\$a_W_U_bab]bbaa_LTb[bb`]aY]][V_TXXaW
@HWI-EAS443:3:9:733:361#0/1
AGAGAATAATGGACATGATTCCAGAGAGGAATGAACAAGG
+HWI-EAS443:3:9:733:361#0/1
aaaa__a`aaa]^`^aaaaa`[]`_^a____```_¥^^^_
@HWI-EAS443:3:9:756:1147#0/1
GTCTGCTGTAATTGGGTATCTCATTGCCATCATCCACTTC
+HWI-EAS443:3:9:756:1147#0/1
a[]`aaa]PXV]a^^_GPX_[_V]_TV_^^`]^_U]UP[^Z
@HWI-EAS443:3:9:767:1163#0/1
AAAAGAAGTCTAATGTCGCAGTCCCGCACTCGC
+HWI-EAS443:3:9:767:1163#0/1
a_` `[aY_a_[_a[___Z_____aUN_X]^]RLSXU^]]WWU
@HWI-EAS443:3:9:811:400#0/1
CTCTTATCCCTCTCAGCGACATCTCCGTGCTTGGGGTCAT
+HWI-EAS443:3:9:811:400#0/1
ab`b]baYbaba`a`^Xa^aa]a^]`aaYaaa_a`U¥_a
@HWI-EAS443:3:9:840:378#0/1
ATTTTCACAATTTCCAGTTCCTGATTATCCATTGATAAG
+HWI-EAS443:3:9:840:378#0/1
¥_`Vb`¥G_¥¥¥UR_ZRV^¥T]^`ZTPZ]^`_XTX`[Ra```
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+HWI-EAS443:3:9:860:521#0/1
Y_RW`]^`¥ZMPZ]^`Q^`^a_]ZW¥`]X`a[GU]^W]XB
@HWI-EAS443:3:9:913:159#0/1
ACTGAAGATCCAGATGAAGGCACATCTGGGGTGGAGTCTG
+HWI-EAS443:3:9:913:159#0/1
aabbabaaa`aaaaaaaaaaa____`¥aa```_W_^¥`WW]^`
@HWI-EAS443:3:9:928:1803#0/1
AAGAAGTCTAATGTCGCAGTCCCGCACTCGCGA
+HWI-EAS443:3:9:928:1803#0/1
a__a_ab```aaVaU_Xaa_aNHSS_UFFKXNZ_XZVWPUQ
@HWI-EAS443:3:9:92:739#0/1
GAGAGATCTAATGTCGCAGTCCCGCACTCGCGAGATACTC
+HWI-EAS443:3:9:92:739#0/1
]^b`bb]^aaZ^bVaaaab¥¥¥`_aT]^`a`]]XW_^ZU[_
@HWI-EAS443:3:9:961:592#0/1
GCTGGATCAGACCGAGTGTGGTATCACCTCTGGCCGTAA
+HWI-EAS443:3:9:961:592#0/1
aabbbaa_baa__aaaVa`_aaV_^U]NW_S^a_¥U`RV¥
@HWI-EAS443:3:9:969:976#0/1
TACTGGTAAGAGGCAATTCTCCAGTATTCAATTACAACAA
+HWI-EAS443:3:9:969:976#0/1
aba`b`U_a]^a`]^`]¥T¥_YaZGZ``Y¥U__aX^_S]_
@HWI-EAS443:3:19:1501:63#0/1
ATGGTTTCTGGACATTTGGACTTACAATGCCGAAATGTT

+HWI-EAS443:3:19:1501:63#0/1
aa^aZRZ[Y_^`a_¥]^ZRLX¥YXTGMZ^SUMT^GY]]B
@HWI-EAS443:3:26:887:1461#0/1
CACAAATTCAAACGAGAAGATCATTTGAGTTAAAGAAACT
+HWI-EAS443:3:26:887:1461#0/1
abababbbabaaa^aaabaa`baaa^^_aYaabaaaa_a
@HWI-EAS443:3:35:1172:1839#0/1
CGGGGGGAGACACACAAATTCAAACGAGAAGATCATTTGA
+HWI-EAS443:3:35:1172:1839#0/1
_`ab]XXGYa]_a`¥^`_[]`¥Y[Y``SJJ]^`_`_]_U
@HWI-EAS443:3:50:314:1660#0/1
CGGGCTTCTTTAACTCAAATGATCTTCTCGTTTGAATTTG
+HWI-EAS443:3:50:314:1660#0/1
U[¥aa`^`__ab`]a¥`ZZ`_¥_bab^]^¥baa]aa`ba^^
@HWI-EAS443:3:54:1176:1876#0/1
CAAACGAGAAGATAATTTGAGTTAAAGAAGCTGTGGGATC
+HWI-EAS443:3:54:1176:1876#0/1
abaabaaa`_`_W_¥abbKab`bbbababbb`baa]_[
@HWI-EAS443:3:7:783:1754#0/1
CATACAAATTCAAACGAGAAGATCATTTGAGTTAAAGAAG
+HWI-EAS443:3:7:783:1754#0/1
_]SaX¥¥WTPNab]ab_bUaa_WG`[Xa[TIX``Yaaa_B
@HWI-EAS443:3:15:1412:1409#0/1
ATAGGGGAGACACACAAATTCAAACGAGAANATCATTTGA
+HWI-EAS443:3:15:1412:1409#0/1
ab```Y[ab]_Y``U¥[aR``___aT_^[D]][[`^UX_
@HWI-EAS443:3:17:1087:538#0/1
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+HWI-EAS443:3:17:1087:538#0/1
aababbbbVDWaabbaaa_aaaaba`b`aa`baa^aaaaa
@HWI-EAS443:3:1:1213:324#0/1
CACAAATTCAAACGAGAAGATCNTTTGAGTTAAAGAAGCT
+HWI-EAS443:3:1:1213:324#0/1
a_]aaVaaX_Q]WaZ[[N__ZWDV^^ZV_]_^`_]X_BB
@HWI-EAS443:3:32:1248:1026#0/1
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+HWI-EAS443:3:32:1248:1026#0/1
abababbbbaabaabaa`abaa``aaa`UDSaaa`a_aaa_
@HWI-EAS443:3:45:1082:1671#0/1
GTGCCATAGGGGAGACACACAAATTCAAACNGAAGATCA
+HWI-EAS443:3:45:1082:1671#0/1
a]aa_aaaa`a`a_^_]aZaa_a__aa`_[DW_``___^
@HWI-EAS443:3:47:1449:278#0/1
GGGGAGACACACAAATTCAAACGAGAAGNTCATTTGAGTT
+HWI-EAS443:3:47:1449:278#0/1
aaaa]`]Z_^`^`_`_]^_VUZ]_ZUUDTX]]_]Y^Y]
@HWI-EAS443:3:66:1182:1551#0/1
GGGGAGACACACAAATTCAAACGAGAAGANCATTTGAGTT
+HWI-EAS443:3:66:1182:1551#0/1
aa[``a`¥`ab_^]¥`][_aaY]]a`^_ZDR``_``]¥S[

@HWI-EAS443:3:81:1117:1770#0/1
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+HWI-EAS443:3:81:1117:1770#0/1
aa^Z¥X_aT`a]U_[^aZF¥Z[VP^_WDR]]_`^¥[SXRT
@HWI-EAS443:3:97:1330:1555#0/1
ATAGGTGCCNTAGGGGAGACACACAAATTCAAACGAGAAG
+HWI-EAS443:3:97:1330:1555#0/1
aa`_[Wa^VDWa_aaa_a_0a[a_a_^a_`^WN[_[VX[
@HWI-EAS443:3:19:1733:61#0/1
ATAGGTGCCATAGGGGAGACACACAAATTCAAACGAGAGA
+HWI-EAS443:3:19:1733:61#0/1
a_a_¥Za^X^^_a_`^^¥^Z^S[W]W^]XWXZZZ_ZZZBB
@HWI-EAS443:3:39:316:1816#0/1
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+HWI-EAS443:3:39:316:1816#0/1
aaaaXWU]LNSWZZZQF]]M^X]QP_W__a]_a¥VPHRP
@HWI-EAS443:3:50:1139:1997#0/1
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+HWI-EAS443:3:50:1139:1997#0/1
]aXXZ``bbab`[[ab¥`V_¥¥]bb`bT`GHV_^`a_YNG
@HWI-EAS443:3:66:315:892#0/1
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+HWI-EAS443:3:66:315:892#0/1
ab_`bb`a`abaaa¥^0^aaaaa``a_aa``a_a__a_`
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CNGGGAGACACACAAATTCAAACGAGAAGATCATTTGAGT
+HWI-EAS443:3:79:101:193#0/1
[DYabbb]`abZa`¥_aabaa_b_aaaaa_`a`aa[_`_
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+HWI-EAS443:3:92:1619:1647#0/1
`b`b`Uaa__b_¥b`aa[aaa^_ba``__a``_aaaZVD[
@HWI-EAS443:3:29:1553:527#0/1
CGAGAAGATCATTTGAGTTAAAGAAGCTGTGGGATAAAAG
+HWI-EAS443:3:29:1553:527#0/1
aaP^a]]HYU``a¥]T_RV_]¥baZ[SJ¥GJ`^XBBBBBB
@HWI-EAS443:3:24:1126:2047#0/1
NAGACACACAAATTCAAACGAGAAGATCATTTGAGTTAAA
+HWI-EAS443:3:24:1126:2047#0/1
DM[YV[[Y[Y[SX[WZ[[[V[[Z[[[[P[Y[Y][ZZS[[Z
@HWI-EAS443:3:5:561:1593#0/1
CGGGGAGACACACAAATTCAAACGAGAAGATCATTTGAGT
+HWI-EAS443:3:5:561:1593#0/1
^a^¥b_b¥¥R`a¥b^^^`a¥`ZXbaa^``aaa_VXVa_bB
@HWI-EAS443:3:5:707:302#0/1
AACAAATTCAAACGAGAAGATCATTTGAGTTAAAGAAGCT
+HWI-EAS443:3:5:707:302#0/1
LUT¥baaX[^aaKaKbbab`VTbZ`baa¥KbWX_¥b[ba`
@HWI-EAS443:3:66:1258:380#0/1
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+HWI-EAS443:3:66:1258:380#0/1
_abbbbb_bbababbbbabbaababbabaa_abbbb`ba
@HWI-EAS443:3:83:873:694#0/1
AAATGATCTTCTCGTTTGAATTTGTGTGTCTCCCCTATGA
+HWI-EAS443:3:83:873:694#0/1
VVZZ_Ua^`a^b¥`¥`¥`YbbbaY`]b^^`baWa`^__G
@HWI-EAS443:3:89:1358:1119#0/1
GGGGGAGACACACAAATTCAAACGAGAAGATCATTGAGT
+HWI-EAS443:3:89:1358:1119#0/1
`^__V[^M¥a`]Y^a¥`VY`^^`^Y]a`]YP[XVXaX`W
@HWI-EAS443:3:100:1207:1867#0/1
CACAAATTCAAACGAGAAGATCATTGAGTTAAAGAAGCT
+HWI-EAS443:3:100:1207:1867#0/1
Yb`bbaaabbb¥bbb`aba`__bba]]bb[[^bba`I`
@HWI-EAS443:3:100:1512:1403#0/1
CACAAATTCAAACGAGAAGATCATTGAGTTAAAGAAGCT
+HWI-EAS443:3:100:1512:1403#0/1
aaba```JYa`Y`bbb¥`ab]N^b¥b_`bbaab¥bbbb^¥
@HWI-EAS443:3:100:347:1047#0/1
CATATAGGTGCCATAGGGGAGACACACAAATTCAAACGAG
+HWI-EAS443:3:100:347:1047#0/1
a_b^`¥TaVa[G_]Vaaa`R^a]PV]UH_T]_]Xaa`¥[B
@HWI-EAS443:3:100:481:1413#0/1
GGGGAGACACACAAATTCAAACGAGAAGATCATTGAGTT
+HWI-EAS443:3:100:481:1413#0/1
Za¥`bba_aa`bbbVba_ba_`^Zb_`_¥aaaaba¥__X^
@HWI-EAS443:3:100:702:1298#0/1
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+HWI-EAS443:3:100:702:1298#0/1
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@HWI-EAS443:3:10:1049:227#0/1
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+HWI-EAS443:3:10:1049:227#0/1
a_bbaabbbbbbabaabbaabaa_abbbbaaabbbbbbab
@HWI-EAS443:3:10:1652:1253#0/1
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+HWI-EAS443:3:10:1652:1253#0/1
a¥]babbb_babV¥b_]abb^Yb]abbab`aa`aa^bX[b
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+HWI-EAS443:3:10:735:1025#0/1
abbb_a_abbbbaaab^aa_]a]aaaa`_a`a`_b_a¥a
@HWI-EAS443:3:10:996:738#0/1
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+HWI-EAS443:3:10:996:738#0/1
aS`^¥Y[Q]a`WV^ZRUXWNSVW^ZNQZWR]Y¥¥XVUNFT
@HWI-EAS443:3:11:1585:1467#0/1
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+HWI-EAS443:3:11:278:1709#0/1
`a]_LZaabbbb¥b`a_`ba]`YY___^^^a`a`aa__^^
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CACAAATTCAAACGAGAAGATCATTTGAGTTAAAGAAGCT
+HWI-EAS443:3:11:557:347#0/1
a```bbbb`aaab`baaaaa`aaaa`aa^a`aabaaS_
@HWI-EAS443:3:12:1125:74#0/1
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+HWI-EAS443:3:12:1125:74#0/1
aaa`a`]`_a_a`a`a`]^`^Za^_]`]^`^W]_```Z_Z`Z
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+HWI-EAS443:3:12:1306:204#0/1
aabbaaaa]ba_`a_a`aa```^_X_`_____a]_`_Z_^_
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CACAAATTCAAACGAGAAGATCATTTGAGTTAAAGAAGCT
+HWI-EAS443:3:12:1425:513#0/1
ababbbb_K`abbaabbaaaaabbb`baaaaabbab_a
@HWI-EAS443:3:12:1661:1960#0/1
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+HWI-EAS443:3:12:1661:1960#0/1
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@HWI-EAS443:3:12:264:852#0/1
GGGAGACACACAAATTCAAACGAGAAGATCATTTGAGTTA
+HWI-EAS443:3:12:264:852#0/1
U_`X¥`_aZ```R¥``U_``^_W¥[O_`^`^Z¥V^`_`UZY
@HWI-EAS443:3:12:608:1734#0/1
CACACAAATTCAAACGAGAAGATCATTTGAGTTAAAGAAG
+HWI-EAS443:3:12:608:1734#0/1
a_^ba`aabba`abbabaabbaabab^aaaaababaa
@HWI-EAS443:3:13:1407:1012#0/1
GGGAGACACACAAATTCAAACGAGAAGATCATTTGAGTT
+HWI-EAS443:3:13:1407:1012#0/1
JPQaaTY`aV¥Q`^ZY_Y^_YQaa^`UOXaP^a_a__aUW
@HWI-EAS443:3:13:1445:241#0/1
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+HWI-EAS443:3:13:1445:241#0/1
a`bbbbbbbaa_a_aTOTR_`^`[`X_`_`a_^_`^aa¥]a_a
@HWI-EAS443:3:13:148:1721#0/1
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+HWI-EAS443:3:13:148:1721#0/1
a`V¥`TaaXa`]aaaa[¥^`aZa`X_baaX_aaT]aa¥a_
@HWI-EAS443:3:13:611:1460#0/1
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+HWI-EAS443:3:13:611:1460#0/1
aaabZ^ZRE¥`a`_aaaV`W`__`_`a_a_____W`^_
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+HWI-EAS443:3:14:1358:1482#0/1
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CACAAATTCAAACGAGAAGATCATTTGAGTTAAAGAAGCT
+HWI-EAS443:3:14:1557:63#0/1
aabbbbaabaaa`¥a`a`b`_`aa`aXa`_`^]a`]aW`
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+HWI-EAS443:3:14:262:2008#0/1
aa`aa]_¥aW[Uaaa`a__]a`_`_^`^^`_^aW`_^Z]^
@HWI-EAS443:3:14:775:44#0/1
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+HWI-EAS443:3:14:775:44#0/1
aba_b`^aaabaab_a`a`_`_^a`^_a_aZa`^^aa]^`_
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+HWI-EAS443:3:15:134:554#0/1
`aZabb_bab_ba`b¥aaabbaaaaa_aa`W¥aaa_Ya`
@HWI-EAS443:3:15:1442:2017#0/1
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+HWI-EAS443:3:15:1442:2017#0/1
_`^a[`_PTTDWbX`^`aa]a¥KRTYM]_]a_a`_`¥WY¥W_
@HWI-EAS443:3:15:457:1676#0/1
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+HWI-EAS443:3:15:457:1676#0/1
_`bbbbbbbbbbbab`bb_bab`baa¥a[ababaabbaa`
@HWI-EAS443:3:15:54:1677#0/1
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+HWI-EAS443:3:15:54:1677#0/1
]_¥¥`bb_V_aa`_`_Q`_`_`^abbb^a`_`¥`_P`^`aaa
@HWI-EAS443:3:15:591:807#0/1
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+HWI-EAS443:3:15:591:807#0/1
aaaa`_`^`a`a`a`_a`_a`¥`^`_`_Z`^`Z]]`_`_`Z¥
@HWI-EAS443:3:15:77:1891#0/1
TATAGGTGCCATAGGGGAGACACACAAATTCAAACGAGAA
+HWI-EAS443:3:15:77:1891#0/1
ababa`Zbbb`^`baa`_`aaaababa]ab`ababa`aaa`a
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_`U^Z`^`R`^`aa¥P_ZV_aaab`Z`aa`a`^`_`a_a`¥
@HWI-EAS443:3:16:337:952#0/1
CACAAATTCAAACGAGAAGATCATTTGAGTTAAAGAAGCT
+HWI-EAS443:3:16:337:952#0/1
ab`^a[^ba_aS_baaaab`_aa`_`^P`_`_aaa`^`a[aa_
@HWI-EAS443:3:16:538:1360#0/1
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+HWI-EAS443:3:16:538:1360#0/1
YYX¥Y_UXU`_`aab]aab_aWaVY`¥^`X_a_LVUPZ_a_

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+HWI-EAS443:3:16:813:699#0/1
ab_bbabbbb_ba_aabab`YababYa_aa`aab`a`^`I
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+HWI-EAS443:3:17:131:892#0/1
¥bWab¥baaS¥_¥¥`]¥babbb_b¥^¥K¥a[¥¥^[Vaa`a
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+HWI-EAS443:3:17:71:926#0/1
aa`aaaabbbbabaaaaabaaa`aabaaaaaaaa`a`aa
@HWI-EAS443:3:18:1034:1332#0/1
GAGACACACAAATTCAAACGAGAAGATCATTTGAGTTAAA
+HWI-EAS443:3:18:1034:1332#0/1
[[`a`¥`__XL[baa_aa`_[`_a[_Yaa]_`Za0^_^`
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CACAAATTCAAACGAGAAGATCATTTGAGTTAAAGAAGCT
+HWI-EAS443:3:18:1450:144#0/1
[X`¥a`Z¥bX`b_baa_¥aa¥bbab¥b`abbbbaa]¥
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_a_YU`_^`_W¥a_^a^aaY]]^`_]__`a`aaaa`^a
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+HWI-EAS443:3:19:187:1325#0/1
ZVV¥^ba^R`]^¥^a]HXUZb¥]^`aa_b¥OR[ZY]_YVTT
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+HWI-EAS443:3:19:573:811#0/1
``abb^_bYbabba`baaaba^ababbbabba`babaa_b
@HWI-EAS443:3:19:794:1183#0/1
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+HWI-EAS443:3:19:794:1183#0/1
abaabaaa`aaa_baa`aa_a`a`a`a`a`__aaaa]____
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+HWI-EAS443:3:1:482:1080#0/1
a_aa]¥b`__^_aaaa_a`¥`_a__a`a[`_`^`[__BB
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+HWI-EAS443:3:20:1166:127#0/1
a^_a`aW`_V_S__^aZ__`__]_^ZXMaX_ZX^__WMP
@HWI-EAS443:3:21:906:37#0/1
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+HWI-EAS443:3:21:906:37#0/1
aaa]]^____]_¥____[Y]]V¥^Z]ZX^ZWZZ]]]^WZZV
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+HWI-EAS443:3:22:1013:1208#0/1
a^a_^__X__][`____`_¥]__^_^_`]^_W__^^_X]^
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CACAAATTCAAACGAGAAGATCATTGAGTTAAAGAAGCT
+HWI-EAS443:3:22:1696:1047#0/1
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]bb_ab`^Y^b`bbbababab`aaVZ^aa^ba`¥aaa
@HWI-EAS443:3:22:532:655#0/1
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+HWI-EAS443:3:22:532:655#0/1
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@HWI-EAS443:3:24:1034:322#0/1
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+HWI-EAS443:3:24:1034:322#0/1
a_SWXba`ZZ]ZO____`V]JT]ST`^UWG¥]`¥U[[¥[Z
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@HWI-EAS443:3:24:922:667#0/1
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¥_¥abba_a^`a`a^baabba_b^ba``a`_^aa_baa_a
@HWI-EAS443:3:25:781:141#0/1
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+HWI-EAS443:3:25:781:141#0/1
¥aUa_`bb¥[ab^bb^bb^aWXa[`]bZbabaaYabV^¥[
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+HWI-EAS443:3:26:1122:240#0/1
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+HWI-EAS443:3:26:1169:1044#0/1
`a```aaabaaaaaa_abaaaaaaab`ab`_aaaa`a]
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+HWI-EAS443:3:26:1372:1093#0/1
abbbb_aa`abbaaababbbbaababaaaaa_aba`b``^
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+HWI-EAS443:3:26:1734:1287#0/1
a¥baW_aX^]_^^a`a^aaaWU_¥aa`[ZZLVaaaa^^^]
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+HWI-EAS443:3:27:1212:1956#0/1
a^`a]aaaab_a_aaaa_aaa¥`a_a_____S_^^`_Z_¥
@HWI-EAS443:3:27:487:515#0/1
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+HWI-EAS443:3:27:487:515#0/1
abbb`_Y_V`¥^X¥]¥Y]_a^a`aba`R_X_]``^a^¥`
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@HWI-EAS443:3:27:817:1269#0/1
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+HWI-EAS443:3:27:817:1269#0/1
aa^^a`aaaabaaaaaaaaba_a____`a_a``_a__`]a
@HWI-EAS443:3:27:970:242#0/1
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+HWI-EAS443:3:27:970:242#0/1
a_^``Ya`a`W^_]_]^[_]_X`]Y][U^^X^Z_]Z]
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+HWI-EAS443:3:28:116:692#0/1
^`ab_b`a_b^Z_aaaTIXaa^]bVb^[_aaa]YaaaZ_a
@HWI-EAS443:3:28:1297:1224#0/1
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+HWI-EAS443:3:28:1297:1224#0/1
aa¥a`Tb^Y¥aa]`a`_a_[`]]]a_Xa_¥_``^a^a^_a
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+HWI-EAS443:3:28:1539:1104#0/1
aaaa_Xa```a_aaa`a]_`^`__`_a_]`^a_Za]`¥]_
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ab]abbbbbbaabaa_ababaab`ba`b¥b`a`_aaa__
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+HWI-EAS443:3:28:1766:551#0/1
¥¥bbb[Yaaabaa`a`bbVbbabb`bbb`abbbb`^^
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+HWI-EAS443:3:28:208:1297#0/1
aabbaba`_baba_aaaYaaa_aa`aabbaa``aaba`^a
@HWI-EAS443:3:28:404:534#0/1
TAGGGGAGACACACAAATTCAAACGAGAAGATCATTGAG
+HWI-EAS443:3:28:404:534#0/1
a^0Za_S_`aaa`a`Paaa`ab_aaa^`____`^`____¥
@HWI-EAS443:3:28:486:278#0/1
CACAAATTCAAACGAGAAGATCATTGAGTTAAAGAAGCT
+HWI-EAS443:3:28:486:278#0/1
aaab`bbab`_`ba`_`abb_aaaa`a_b_a`^`b`a^_
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+HWI-EAS443:3:29:159:1370#0/1
^Y][LY`__a`b`a`__`aa`_`_]`_a`^`a`^`_`_`]
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+HWI-EAS443:3:29:987:544#0/1
¥`a¥`^0`Y^_aaaaX_X[`W````a`[_`_Y_``aa¥X
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+HWI-EAS443:3:2:425:1251#0/1
aa]Ma__Yaaba`[_`_`a_a``__aa`__a^a_a`__`^
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+HWI-EAS443:3:30:1050:1717#0/1
ab`aa[]a`aaaaa`Z`^^`_``^¥]`^_aaa_a_Z`__
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+HWI-EAS443:3:30:1562:461#0/1
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+HWI-EAS443:3:30:1596:1508#0/1
_¥¥^`¥Z_P_`^`a]aaSa^`abaaa`ba^Q]abba[aa^`
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+HWI-EAS443:3:31:1066:847#0/1
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@HWI-EAS443:3:31:264:143#0/1
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+HWI-EAS443:3:31:264:143#0/1
_`baa``abaaaaQ`aaaa`aaa]_a`_`^^a^`a[a^^
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+HWI-EAS443:3:32:1470:487#0/1
aaabaaaaaaaa`aaaaaaaa`a`__a`aa]``a_a`aaaa

@HWI-EAS443:3:32:243:1374#0/1
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+HWI-EAS443:3:32:243:1374#0/1
`¥¥Z_aaa_`a`]]^`_`^`[_¥___[_]^a_`Z`Z¥_^^R
@HWI-EAS443:3:32:950:476#0/1
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+HWI-EAS443:3:32:950:476#0/1
a[a_a^aaaaa`][¥a]a__`]^¥S¥`__`]^SY[OXY¥
@HWI-EAS443:3:33:1196:406#0/1
CACAAATTCAAACGAGAAGATCATTTGAGTTAAAGAAGCT
+HWI-EAS443:3:33:1196:406#0/1
¥`a```bbbbbbba`Vbbbb_bb````^b`^ba`aa_`
@HWI-EAS443:3:33:1735:375#0/1
GGGGAGACACACAAATTCAAACGAGAAGATCATTTGAGTT
+HWI-EAS443:3:33:1735:375#0/1
abSaab_____ba`a`baa`a_`^a`W_¥¥Y]U`^_¥]^_
@HWI-EAS443:3:33:289:1484#0/1
CACAAATTCAAACGAGAAGATCATTTGAGTTAAAGAAGCT
+HWI-EAS443:3:33:289:1484#0/1
a_b`R_abaaba`aa^a^a_aaa`a_XX_`a_a[a`W]]
@HWI-EAS443:3:33:40:659#0/1
CACAAATTCAAACGAGAAGATCATTTGAGTTAAAGAAGCT
+HWI-EAS443:3:33:40:659#0/1
abaV`U`aba`a`a_`]^`a^`_aaa`¥G^__`¥T`_¥__]
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]b^^_X^baaX``b`a_Q]_`bbaa]aab^a¥X^a^dWY_
@HWI-EAS443:3:33:776:1817#0/1
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+HWI-EAS443:3:33:776:1817#0/1
a¥_Z_aa^_^_V[Zb_aaaa^a`a_TVa_^¥`X][S¥_a`
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+HWI-EAS443:3:34:1035:1926#0/1
aa_aYa_`aa`aaX`]^`aa`T¥[_^¥¥^^^_])^^¥YUZX
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+HWI-EAS443:3:34:1745:1699#0/1
a`aa_```_aaa__`__a_a^`_`_])^^a`¥]X]X]^ZZHU
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+HWI-EAS443:3:35:1271:1250#0/1
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+HWI-EAS443:3:35:410:930#0/1
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abaaaa`aaaaaaaaaaaa`]^a`a_a___a__aa`_`_]
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^`ba[¥abbaa[`YZXa`aaaa`[]^`_]PZ^^baYJV`
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+HWI-EAS443:3:36:708:911#0/1
Xa_¥Y¥b^^`Z^]baV`[_V_aSXb`a[¥N_]_a[^`[a^
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+HWI-EAS443:3:37:1738:1016#0/1
a^NZU`b__UX^Za_a]a_b^`^`b_IbY^`_Vb_U`_a
@HWI-EAS443:3:37:193:1356#0/1
CGAGAAGATCATTTGAGTTAAAGAAGCTGTGGGCTCAAAC
+HWI-EAS443:3:37:193:1356#0/1
aaY^IJ[Z[_V_`¥[ZXY^aa_W_`Sa_ULQ^RFEN[JYX
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+HWI-EAS443:3:37:731:773#0/1
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+HWI-EAS443:3:37:758:1388#0/1
`¥_bbb¥¥ZZb^bb`_`[SZbabbab_]IVVO```a]aaa
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+HWI-EAS443:3:38:1274:495#0/1
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+HWI-EAS443:3:38:904:1375#0/1
a_b^_[ZZaaaa¥¥[aZ[[W`_`a`¥[[]_[]XX][`]V¥W

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@HWI-EAS443:3:39:1586:847#0/1
GGGAGACACACAAATTCAAACGAGAAGATCATTTGAGTTA
+HWI-EAS443:3:39:1586:847#0/1
a^`]b]]a_a¥^^`a`^¥_WT`^^][¥][^¥]¥^]T¥T_X
@HWI-EAS443:3:39:1764:1144#0/1
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+HWI-EAS443:3:39:1764:1144#0/1
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@HWI-EAS443:3:39:235:1757#0/1
ATATAGGTGCCATAGGGGAGACACACAAATTCAAACGAGA
+HWI-EAS443:3:39:235:1757#0/1
a]b`a_WX[a^¥`T_Y_`[[]`[¥^aa[[¥Gaa_XX^S[
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+HWI-EAS443:3:39:461:1845#0/1
V_TX^Z^Xa`_¥aT^WX¥`aab`aa`a_a``^abbaaaT
@HWI-EAS443:3:3:290:245#0/1
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+HWI-EAS443:3:3:290:245#0/1
aaaaTRQab`a`¥a_bVbaaaST¥]YS[]`^`_`__WZa__
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+HWI-EAS443:3:3:351:697#0/1
a`^X¥_____a_W]`Z`^a__Z`^^__^Z`¥RPOa^B
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+HWI-EAS443:3:40:1202:370#0/1
_bbbbabbbbbbbaababbbbababababababab
@HWI-EAS443:3:40:1481:569#0/1
CACAAATTCAAACGAGAAGATCATTTGAGTTAAAGAAGCT
+HWI-EAS443:3:40:1481:569#0/1
T`baabbbbababbbbbaabbaabbbbababb`T_____ba
@HWI-EAS443:3:40:309:329#0/1
CATAGGGGAGACACACAAATTCAAACGAGAAGATCATTTG
+HWI-EAS443:3:40:309:329#0/1
aab¥bbba^]aaaaba_Y_a`aaaa^[^^^Z`^a____^`
@HWI-EAS443:3:40:401:245#0/1
CACAAATTCAAACGAGAAGATCATTTGAGTTAAAGAAGCT
+HWI-EAS443:3:40:401:245#0/1
abaab^aaabbaab`ba^b_aa`aaa]^_`a`]W____
@HWI-EAS443:3:40:966:1301#0/1
ATAGGGGAGACACACAAATTCAAACGAGAAGATCATTTGA

+HWI-EAS443:3:40:966:1301#0/1
`baY`aabaaa`_a_aa_a_aabaa`Ua`a_a^^aaY`a_
@HWI-EAS443:3:42:1638:520#0/1
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+HWI-EAS443:3:42:1638:520#0/1
aaaab^ba_`a`baa`^aa^`]aZ`a````a__^`_a_^_
@HWI-EAS443:3:42:166:1926#0/1
ACAAATTCAAACGAGAAGATCATTGAGTTAAAGAAGCTG
+HWI-EAS443:3:42:166:1926#0/1
aab_QWS[aa_Q¥WZUZb_Ua__Va`_[RaXZI]a`¥a^R
@HWI-EAS443:3:42:548:1596#0/1
GGGGAGACACACAAATTCAAACGAGAAGATCATTGAGTT
+HWI-EAS443:3:42:548:1596#0/1
a_aa`ab`babaabaaaaabbaaaaaaaaaaaaaaaaa_a^a
@HWI-EAS443:3:42:76:21#0/1
CACAAATTCAAACGAGAAGATCATTGAGTTAAAGAAGCT
+HWI-EAS443:3:42:76:21#0/1
`[_`_¥^aaaaaaaaaba_aa_`a_aa[a]_a_V¥a[_`_]
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CACAAATTCAAACGAGAAGATCATTGAGTTAAAGAAGCT
+HWI-EAS443:3:43:1032:1710#0/1
abbbbabbbbbbbbabbbba`bbbbbabbb`aabbaa`b
@HWI-EAS443:3:43:1495:1745#0/1
GAGACACACAAATTCAAACGAGAAGATCATTGAGTTAAA
+HWI-EAS443:3:43:1495:1745#0/1
ab[aab`aabba`b_ab^`a[```a_a_``a``^b^_`]a
@HWI-EAS443:3:43:192:994#0/1
CACAAATTCAAACGAGAAGATCATTGAGTTAAAGAAGCT
+HWI-EAS443:3:43:192:994#0/1
ababb`ababbaa`aaa`]a_aaaabaa]_a`ba¥aaa^^
@HWI-EAS443:3:43:32:181#0/1
CACAAATTCAAACGAGAAGATCATTGAGTTAAAGAAGCT
+HWI-EAS443:3:43:32:181#0/1
a_bbb`bbabbaababaaaaaaaaabb[``aa^aaaaaaa
@HWI-EAS443:3:43:356:1932#0/1
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+HWI-EAS443:3:43:356:1932#0/1
a`_b][a¥RbaaG]Z`a__Y[Z`Y_U]NY`¥^¥`a_]`^
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TAGGGGAGACACACAAATTCAAACGAGAAGATCATTGAG
+HWI-EAS443:3:43:361:1487#0/1
`abbaabbbbbbb`bbbabbabbaababaaaaaa]`_
@HWI-EAS443:3:43:828:865#0/1
AGGGGAGACACACAAATTCAAACGAGAAGATCATTGAGT
+HWI-EAS443:3:43:828:865#0/1
ab]a][`aaa`b_aaaa_aa__aa``_a``````_a____
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CACACAAATTCAAACGAGAAGATCATTGAGTTAAAGAAG
+HWI-EAS443:3:44:145:1296#0/1
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+HWI-EAS443:3:45:1220:1967#0/1
abba^¥baV`baaa`]aba]b_Z¥``baa``^`aa_[U[
@HWI-EAS443:3:45:1446:1513#0/1
ATAGGGGAGACACACAAATTCAAACGAGAAGATCATTTGA
+HWI-EAS443:3:45:1446:1513#0/1
`__a`_a^^__a`a`a`baYab^¥``baaaaa]_aaab_
@HWI-EAS443:3:46:1216:448#0/1
GGGAGACACACAAATTCAAACGAGAAGATCATTTGAGTTA
+HWI-EAS443:3:46:1216:448#0/1
abaZWT]``^a`XW`_`a`_`¥Q[ZY`TTVOZ^`¥V`X^Z
@HWI-EAS443:3:46:1321:1013#0/1
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+HWI-EAS443:3:46:1321:1013#0/1
a_UUV[G[^V¥¥OW][RS_¥]^_][^¥`_^[]`X]V_]Y
@HWI-EAS443:3:46:1749:350#0/1
CACAAATTCAAACGAGAAGATCATTTGAGTTAAAGAAGCT
+HWI-EAS443:3:46:1749:350#0/1
abbab¥baabbaab`aaa_a`^`aa[a_a`_`a_Y`^`
@HWI-EAS443:3:46:360:1959#0/1
CTCGTTTGAATTTGTGTGTCTCCCCTATGGCACCTATATG
+HWI-EAS443:3:46:360:1959#0/1
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@HWI-EAS443:3:46:43:762#0/1
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+HWI-EAS443:3:46:541:2045#0/1
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@HWI-EAS443:3:46:867:613#0/1
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+HWI-EAS443:3:46:867:613#0/1
abbbabba`bba_a¥bbaaabaaba_abaabbaabaabaa
@HWI-EAS443:3:47:1019:1648#0/1
GACACACAAATTCAAACGAGAAGATCATTTGAGTTAAAGA
+HWI-EAS443:3:47:1019:1648#0/1
a_`b`b]b_`abVbbbWb`b`bba^U_baabYa_aababa
@HWI-EAS443:3:47:1264:1184#0/1
GGGAGACACACAAATTCAAACGAGAAGATCATTTGAGTTA
+HWI-EAS443:3:47:1264:1184#0/1
^_bb¥`abbbb_babbabb`abaaaaaa^abbab^b_b^
@HWI-EAS443:3:47:167:342#0/1
CACAAATTCAAACGAGAAGATCATTTGAGTTAAAGAAGCT
+HWI-EAS443:3:47:167:342#0/1
a_bbabbbbaa^ZU^aa`ab`_`abbaa`a_aa]ab`ab[_
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+HWI-EAS443:3:47:286:1617#0/1
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+HWI-EAS443:3:47:602:1004#0/1
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@HWI-EAS443:3:47:794:1649#0/1
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+HWI-EAS443:3:47:794:1649#0/1
ababab_abbabaa`bbab``aba_a`a`aaa¥`_aaa`
@HWI-EAS443:3:47:980:864#0/1
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+HWI-EAS443:3:47:980:864#0/1
ab`^bab_baaa_]a_a`[_¥aaaY]a[aa^Ya`_]V`T
@HWI-EAS443:3:48:1632:1760#0/1
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+HWI-EAS443:3:48:1632:1760#0/1
a_]¥`¥_NU[a`_Z_[YXX_^aY`_X_^X]X_[]WZ
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+HWI-EAS443:3:48:1788:1730#0/1
TQ_b]U_aY^b]0]_V¥RY`_I`_^a^W[S^[_a_a¥WV]
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+HWI-EAS443:3:48:611:1105#0/1
a_XUaXa_[[_WYQY__[^_R_SZ[WXZWN^X]XW]ZZ
@HWI-EAS443:3:48:752:11#0/1
CACAAATTCAAACGAGAAGATCATTGAGTTAAAGAAGCT
+HWI-EAS443:3:48:752:11#0/1
a_bb[_X_abb¥_bab`_ba`]]^¥ba_^b_^a^__R^^
@HWI-EAS443:3:48:807:543#0/1
CACAAATTCAAACGAGAAGATCATTGAGTTAAAGAAGCT
+HWI-EAS443:3:48:807:543#0/1
ababbbbabbaaaaaaba__aaaa^`_aaaa`_`a_a
@HWI-EAS443:3:49:1462:1560#0/1
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+HWI-EAS443:3:49:1462:1560#0/1
aa`a[baa`bbb`X]aba`b`baaaaa`baa`a_aa`_`
@HWI-EAS443:3:49:18:760#0/1
CACACAAATTCAAACGAGAAGATCATTGAGTTAAAGAAG
+HWI-EAS443:3:49:18:760#0/1
ababbb^bbbababababababaa`aa_VXb_aaaa^aa]
@HWI-EAS443:3:49:37:594#0/1
GGGAGACACACAAATTCAAACGAGAAGATCATTGAGTTA
+HWI-EAS443:3:49:37:594#0/1
^^`bbaababababaaa`bbb`baaaaa`aa`abaYZa`aa
@HWI-EAS443:3:49:494:1630#0/1
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+HWI-EAS443:3:49:494:1630#0/1
^`a`_`[_Z`bb`aaaa`a_ba`abbabababbbbaabb^b

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+HWI-EAS443:3:49:795:349#0/1
abbbbbbbbaabaa_bbb^Zaabbabababaabaa^a
@HWI-EAS443:3:49:863:250#0/1
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+HWI-EAS443:3:49:863:250#0/1
Vbba]a)`ab_babaaY^aa`aabaaaa^a_a¥__`_Waa
@HWI-EAS443:3:4:1540:188#0/1
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+HWI-EAS443:3:4:1540:188#0/1
^_`Za`YI_WWZ¥TaR¥]_`PY]_`Yaa^^`_`[a]_BB
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+HWI-EAS443:3:4:1742:777#0/1
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+HWI-EAS443:3:4:446:123#0/1
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@HWI-EAS443:3:4:952:70#0/1
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+HWI-EAS443:3:4:952:70#0/1
a¥aa^^TX^XWWb_[_`b`XNZ_aaZ¥X^]WUa^Wa]_B
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+HWI-EAS443:3:50:1320:330#0/1
R`aaaab`^a`aa`a`_Q_b`^aabbabbaa`babbbbb
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+HWI-EAS443:3:50:461:1968#0/1
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+HWI-EAS443:3:51:1232:477#0/1
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@HWI-EAS443:3:51:1396:1375#0/1
GGGAGACACAAAATTCAAACGAGAAGATCATTTGAGTTA
+HWI-EAS443:3:51:1396:1375#0/1
^bb`aaabaa_ab^aa`aaa_aaaa_a_a``aaaa`b_aa
@HWI-EAS443:3:51:1539:841#0/1
ACAAATTCAAACGAGAAGATCATTTGAGTTAAAGAAGCTG
+HWI-EAS443:3:51:1539:841#0/1
a_baaba_aXa_a``aa``_]_`aa`^a__`a`^a_]X`_
@HWI-EAS443:3:51:452:1012#0/1
GCCATAGGGGAGACACAAAATTCAAACGAGAAGATCATT
+HWI-EAS443:3:51:452:1012#0/1
``_¥ZaaaaabX]a`baa__a`_aaa`a¥a_`a[_[^^]
@HWI-EAS443:3:51:612:857#0/1
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+HWI-EAS443:3:51:612:857#0/1
`[^YLS¥XS¥YZ]a_aa`ZTVKV¥aST[XVNR```aOWQ¥
@HWI-EAS443:3:52:108:1417#0/1
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+HWI-EAS443:3:52:108:1417#0/1
abbaaaa`V`a`aa`a^`__S_a^`b]a_V^aV_`^`a[a
@HWI-EAS443:3:52:158:315#0/1
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+HWI-EAS443:3:52:158:315#0/1
aaa`a^a_a_`a`a`^a_`_`^`_]`[_`_U`]^`^^_
@HWI-EAS443:3:52:1749:1333#0/1
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+HWI-EAS443:3:52:1749:1333#0/1
Zaa`¥aa_`V`V`Z`¥`_b_ba_a_]aUOMZJW_¥`^XZaa
@HWI-EAS443:3:52:1785:1293#0/1
CACAAATTCAAACGAGAAGATCATTTGAGTTAAAGAAGCT
+HWI-EAS443:3:52:1785:1293#0/1
`^``abbababaaa_Z___aWO[]_`OUS¥`_`_]^^]ZZZ
@HWI-EAS443:3:52:204:1432#0/1
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+HWI-EAS443:3:52:204:1432#0/1
ab`aa_baaabaa`aaaabaab_a_aa_`X]a`aa[`^aa
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+HWI-EAS443:3:52:247:1505#0/1
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@HWI-EAS443:3:52:301:672#0/1
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+HWI-EAS443:3:52:301:672#0/1
a_aa`_aaaaaaa`_a`aaaa[_a^`a__a_a^¥a`_TZ
@HWI-EAS443:3:52:408:1641#0/1
GGGAGACACACAAATTCAAACGAGAAGATCATTTGAGTTA
+HWI-EAS443:3:52:408:1641#0/1
`a_aaaabaab]bb`_aaba^a`^¥aaa¥`_bbab^ba_a
@HWI-EAS443:3:52:458:306#0/1
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+HWI-EAS443:3:52:458:306#0/1
^bbaaba`W]a`b`Y`ab___^`_Ya__a_]X^aa`^Y_]`
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+HWI-EAS443:3:52:88:2011#0/1
aa]aaa`aa`aa__^`Y¥^_]W]]W^ZX^^^^_]WZ^
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+HWI-EAS443:3:53:1082:1207#0/1
H_babab__bba`aa`aab__^`_b]`aaab`__La`ba
@HWI-EAS443:3:53:1272:1529#0/1
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+HWI-EAS443:3:53:1272:1529#0/1
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@HWI-EAS443:3:53:1396:730#0/1
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+HWI-EAS443:3:53:1396:730#0/1
a_¥¥W[^^^[aVUWZb¥`_SY^a`[^`aX^`Z]aaa¥aX^
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CTCGTTTGAATTTGTGTGTCTCCCCTATGGCACCTATATG
+HWI-EAS443:3:53:1486:199#0/1
``^b]a`a¥bba¥`aZ¥__WT]a]``ab^]`TT`¥`a_
@HWI-EAS443:3:53:1528:583#0/1
CACAAATTCAAACGAGAAGATCATTTGAGTTAAAGAAGCT
+HWI-EAS443:3:53:1528:583#0/1
``bbb`b_¥_abYbUY```b`abbaaa_a^Vaaab]a[`
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+HWI-EAS443:3:53:1577:92#0/1
[b_a_bbb^X^bbb^_¥Ya__W¥aaaba``^Z^¥^`Y^^
@HWI-EAS443:3:53:237:1826#0/1
GGGAGACACACAAATTCAAACGAGAAGATCATTTGAGTTA
+HWI-EAS443:3:53:237:1826#0/1
S_b``[Yabbabb^ba`bb`b`baaaaaaba`a]a[a`
@HWI-EAS443:3:53:302:899#0/1
CACAAATTCAAACGAGAAGATCATTTGAGTTAAAGAAGCT
+HWI-EAS443:3:53:302:899#0/1
_WZ``Va`_TZ]_b^URN_WJYZZaX[Y]Y`ZV^[aa_W¥
@HWI-EAS443:3:53:422:737#0/1
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+HWI-EAS443:3:53:422:737#0/1
aba¥[YX^_b¥V]a]a`V`_OTY^_XbZ``^_aa[a_a_
@HWI-EAS443:3:54:1171:133#0/1
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+HWI-EAS443:3:54:1171:133#0/1
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@HWI-EAS443:3:54:1674:384#0/1
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+HWI-EAS443:3:54:1674:384#0/1
_]ba^_aab^b_babbb`a`aSa]aa¥bbaabbabZ^aa
@HWI-EAS443:3:54:1753:1426#0/1
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+HWI-EAS443:3:54:1753:1426#0/1
_`¥^`bb]Z¥¥a]`^Y]_Yaaa^YKa^a]RXZa¥Yba_a¥
@HWI-EAS443:3:54:408:1797#0/1
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+HWI-EAS443:3:54:408:1797#0/1
aa]^a`]]`W^URRUZWV¥S^`[QV]SY¥XOQ_WTQV
@HWI-EAS443:3:55:1063:997#0/1
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+HWI-EAS443:3:55:1063:997#0/1
ababbabbaaba_bab`abaa_aaaaa_a`aa_aaa`_a
@HWI-EAS443:3:55:164:2006#0/1
CATATAGGTGCCATAGGGGAGACACACAAATTCAAACGAG

+HWI-EAS443:3:55:164:2006#0/1
abaaaa`][aaZ]^Y_a^_¥][a^`_`a``]aa___Z___
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+HWI-EAS443:3:55:556:1020#0/1
aaY_``_¥_``a`a`a`abaaaa`b``_[`aa]`a``a^
@HWI-EAS443:3:56:99:1369#0/1
GACACACAAATTCAAACGAGAAGATCATTGAGTTAAAGA
+HWI-EAS443:3:56:99:1369#0/1
aaaYababa`aabba`a^X`__a^aaaa``a]`¥aa__
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+HWI-EAS443:3:57:1174:1393#0/1
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@HWI-EAS443:3:57:1399:1639#0/1
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+HWI-EAS443:3:57:1399:1639#0/1
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@HWI-EAS443:3:57:743:1733#0/1
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+HWI-EAS443:3:57:743:1733#0/1
a_YZ`¥MV^a^`aa_a`_aaa¥[[_`_a``_^]^a^Z`^^
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+HWI-EAS443:3:57:906:993#0/1
a]L[abaa`Q]]X]_a¥_a`a```a^W`_^Z`aT`a[_]^
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+HWI-EAS443:3:59:1691:1151#0/1
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@HWI-EAS443:3:59:211:1840#0/1
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+HWI-EAS443:3:59:211:1840#0/1
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+HWI-EAS443:3:59:836:1127#0/1
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+HWI-EAS443:3:5:122:1642#0/1
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+HWI-EAS443:3:5:591:1550#0/1
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a^[bbaababbaabaaabbaa`aaaa`a^\_```SX\_\_Y\_a  
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T\_Y¥¥[M]``a\_]\_aZX]]a¥U`\_¥a\_\_\_abb\_T\_\_X`\_X  
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+HWI-EAS443:3:68:1015:1057#0/1  
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+HWI-EAS443:3:68:68:1318#0/1  
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+HWI-EAS443:3:70:502:1104#0/1  
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Y¥¥R[b`b¥a^^a]``aZb\_\_^^\_\_aa^]¥RR¥a\_b[T`

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+HWI-EAS443:3:75:1238:1627#0/1  
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a\_`aaa``Ga¥]aaa`aa`\_`Z`a\_a`aaa\_[aaaa`\_`\_`  
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+HWI-EAS443:3:79:1144:1819#0/1  
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+HWI-EAS443:3:79:186:1030#0/1  
a`^aaaa^a``]aaaaaaaa`\_`a\_a``aaa\_`]`\_`[``  
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+HWI-EAS443:3:80:229:758#0/1  
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+HWI-EAS443:3:81:592:558#0/1  
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X\_Xb^`b`Oba^a`b¥^`abPN\_ZV^`\_`b]b\_`aaba`  
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aaaaa`abZ`aV`aa]V\_\_Y^\_Xa[a\_a\_`XPP[`¥^]`^`  
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a`\_¥`\_`Ya`a^bbb¥Va`¥Z¥aaab¥^aaaa`a\_aa\_`  
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a^]aaYa^`^a\_aa`^`^\_\_W^X`X\_Y^\_^]\_\_\_Wa]\_]Z\_  
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+HWI-EAS443:3:84:265:148#0/1  
a`aab¥aab\_Z\_aaaZa]a^a\_`^\_]WX\_`^^]¥XZXZX  
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+HWI-EAS443:3:84:906:1089#0/1  
a\_\_V\_\_\_Y\_\_\_`\_]US0a^^]aZa^^^^^SY^^\_\_V\_]X  
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\_[]`XTa`^\_\_¥X¥ZY[[R[]`^ZVY]^^^\_\_¥ST[VY  
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+HWI-EAS443:3:85:829:1394#0/1  
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+HWI-EAS443:3:86:112:1385#0/1  
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+HWI-EAS443:3:86:1203:1423#0/1  
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+HWI-EAS443:3:86:1395:999#0/1  
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+HWI-EAS443:3:86:1423:696#0/1  
Q¥¥V^aaaa`b`a`a`a`\_a\_[]\_a¥YY\_`^a`^aZ¥¥\_  
@HWI-EAS443:3:86:1589:35#0/1  
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+HWI-EAS443:3:86:1589:35#0/1  
\_aa\_[]\_bb\_aababb¥ba\_bbbab^^[¥aaYJXaa\_[]TR]  
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+HWI-EAS443:3:87:1679:905#0/1  
a\_]¥\_[abaaa^\_b\_bb`ab\_\_abIb]ba`a\_aaaa\_]Za  
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+HWI-EAS443:3:89:506:976#0/1  
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+HWI-EAS443:3:89:64:984#0/1  
¥a`a[[\_`\_U\_Z`[^`\_`^`¥V¥¥`¥aaZa]]^\_]`V`  
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+HWI-EAS443:3:8:1184:364#0/1  
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+HWI-EAS443:3:8:1497:584#0/1  
]Ua`b\_b]baa\_]\_Yaa^Ybaa`\_aQaXQ\_aY``\_^aQ]\_  
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aaaa`aaaa\_aa\_`a`aa\_a\_]`\_`a]\_\_^\_^]]\_`^  
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+HWI-EAS443:3:8:623:1127#0/1  
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@HWI-EAS443:3:90:1648:1231#0/1  
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+HWI-EAS443:3:90:1648:1231#0/1  
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@HWI-EAS443:3:90:442:1699#0/1  
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+HWI-EAS443:3:90:442:1699#0/1  
aZYPX\_b[`baa¥aaaaaaaa`aaa```aaa`a\_`Va^`\_  
@HWI-EAS443:3:91:188:361#0/1  
TATAGGTGCCATAGGGGAGACACACAAATTCAAACGAGAA  
+HWI-EAS443:3:91:188:361#0/1  
ab^]\_Zabaaa^[Z`^Z`^Y^a\_`¥W\_^\_^Y\_\_`\_]\_Y`X^  
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+HWI-EAS443:3:91:274:1415#0/1  
¥a\_^]\_ba]a¥`^`^`^`^`aaaa\_aa\_\_\_\_^aaa\_a``\_`^  
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ACACAAATTCAAACGAGAAGATCATTTGAGTTAAAGAAGC  
+HWI-EAS443:3:91:287:479#0/1  
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@HWI-EAS443:3:91:510:602#0/1  
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+HWI-EAS443:3:91:510:602#0/1  
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@HWI-EAS443:3:91:592:425#0/1  
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+HWI-EAS443:3:91:592:425#0/1  
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+HWI-EAS443:3:92:1467:1070#0/1  
\_P^^Ua`\_XK¥]NPTX]]`\_USa^a\_W^`XFV\_]X\_V^¥W  
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+HWI-EAS443:3:92:1534:417#0/1  
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+HWI-EAS443:3:92:735:145#0/1  
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GTTTGATCCCACAGCTTCTTAACTAAAATGATCTTCTCG  
+HWI-EAS443:3:93:1145:170#0/1  
\_SX` [ [ ] P ] M ` Y L ] ] ^ Z T ^ ] SVPWVKTPX [ VPVV ¥ WG ] G\_  
@HWI-EAS443:3:93:1297:933#0/1  
AGGTGCCATAGGGGAGACACACAAATTCAAACGAGAAGAT  
+HWI-EAS443:3:93:1297:933#0/1  
\_X`Y\_V [ ] `T\_aba]a\_\_\_\_QV[W`\_`R]aaY¥^`]S\_]a  
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+HWI-EAS443:3:93:1476:1042#0/1  
¥]]]]UI\_YPRQUQ^G[TTU¥WZ^P[DLSZ^`\_USZYUST  
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+HWI-EAS443:3:94:922:1273#0/1  
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+HWI-EAS443:3:96:432:1744#0/1  
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+HWI-EAS443:3:96:78:412#0/1  
P`\_abbbab]` `bbba` `a` `¥bba` \_babbbbababbbbabbb  
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+HWI-EAS443:3:97:1389:1991#0/1  
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+HWI-EAS443:3:97:1512:853#0/1  
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@HWI-EAS443:3:97:655:1832#0/1  
CACAAATTCAAACGAGAAGATCATTGAGTTAAAGAAGCT  
+HWI-EAS443:3:97:655:1832#0/1  
aa` bbbbaabbaaaaaYaa` a\_aaa^a` \_[\_a\_aa` `]^` `^` `^`

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S^a``aba\_aa^Y\_bbabbbba^bbbbbabb`bbbba`b  
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+HWI-EAS443:3:98:1615:1359#0/1  
`aaa\_a\_Vb`^Xa`a\_`aWa`[\_`a\_\_`\_]\_`Y\_a`XMX]  
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@HWI-EAS443:3:98:871:1337#0/1  
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aaaaaaaaUb\_¥a`aa[aaa¥a^a`aaa[]a\_`a`\_W`]a`  
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+HWI-EAS443:3:99:1495:374#0/1  
ab^`b\_^b^b`a]^bb^¥aaa^a`]^aab\_TYaa`a¥a^  
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@HWI-EAS443:3:99:767:846#0/1  
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+HWI-EAS443:3:99:767:846#0/1  
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@HWI-EAS443:3:99:946:767#0/1  
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+HWI-EAS443:3:99:946:767#0/1  
a\_bbbbbbbbbbbabbabbbb`bbbb`abbabbbbb^b  
@HWI-EAS443:3:9:1307:134#0/1  
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+HWI-EAS443:3:9:1307:134#0/1  
`bbabbaabbb]`bbbbbab`abbb``aabaabbb¥aaa  
@HWI-EAS443:3:9:1320:308#0/1  
TAGGGGAGACACACAAATTCAAACGAGAAGATCATTTGAG

+HWI-EAS443:3:9:1320:308#0/1  
a[ab`a`a^`\_a`a`aa^aa\_[a^a\_\_a\_]`][a`a^a  
@HWI-EAS443:3:9:1557:1111#0/1  
CACACAAATTCAAACGAGAAGATCATTTGAGTTAAAGAAG  
+HWI-EAS443:3:9:1557:1111#0/1  
`]\_]baW`\_^`]aab\_aaaU]V`a^aa\_a¥`Z``a`\_`  
@HWI-EAS443:3:9:1729:1020#0/1  
CACAAATTCAAACGAGAAGATCATTTGAGTTAAAGAAGCT  
+HWI-EAS443:3:9:1729:1020#0/1  
^aabaa`\_\_abba\_a`abbab[ab]bb]\_abaababaa`a  
@HWI-EAS443:3:9:594:473#0/1  
CACAAATTCAAACGAGAAGATCATTTGAGTTAAAGAAGCT  
+HWI-EAS443:3:9:594:473#0/1  
aba]^baa]U]b^`[\_K\_a\_]¥`aaa\_\_`\_a`\_\_a^Ya^a  
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TAGGTGCCATAGGGGAGACACACAAATTCAAACGAGAAGA  
+HWI-EAS443:3:9:979:618#0/1  
aa`^`ba\_aaaa`a`aa\_^`\_a\_a\_\_a`aa`Wa^\_]`a^  
@HWI-EAS443:3:7:138:1213#0/1  
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+HWI-EAS443:3:7:138:1213#0/1  
`bbbbbb`ZZaaaaababbabababa\_`aaaaaaaa^`^`  
@HWI-EAS443:3:90:463:749#0/1  
GATCCACAGCTTCTTTAACTCAAATGATCTTCTCGTTTG  
+HWI-EAS443:3:90:463:749#0/1  
\_`a\_Y[[\_]Z\_aa^`a]UZaaa\_a\_aY^Ya`[^a^`\_`  
@HWI-EAS443:3:56:102:504#0/1  
AAACGAGAAGATCATTTGAGTTAAAGAAGCTGTGGGATCA  
+HWI-EAS443:3:56:102:504#0/1  
^aabaab\_ab`aaaaaab`a`aaaa`¥```\_a\_aa\_^ZY  
@HWI-EAS443:3:36:1694:1657#0/1  
CGAGAAGATCATTTGAGTTAAAGAAGCTGTGGGATCAAAC  
+HWI-EAS443:3:36:1694:1657#0/1  
H\_ab\_Xba`[S`baabb`\_Za¥bbbbba¥¥Ja[¥V\_]H\_]b  
@HWI-EAS443:3:40:860:1562#0/1  
GTTTGATCCACAGCTTCTTTAACTCAAATGATCTTCTCG  
+HWI-EAS443:3:40:860:1562#0/1  
a`a`]```a]T]^a\_```\_`\_¥¥V¥00YRWU¥¥\_]``\_X  
@HWI-EAS443:3:89:651:1429#0/1  
CGAGAAGATCATTTGAGTTAAAGAAGCTGTGGGATCAAAC  
+HWI-EAS443:3:89:651:1429#0/1  
ab]aaaaaab^bbbbbbabbbbbbbbabXa[a\_]\_aab`  
@HWI-EAS443:3:89:761:1241#0/1  
CGAGAAGATCATTTGAGTTAAAGAAGCTGTGGGATCAAAC  
+HWI-EAS443:3:89:761:1241#0/1  
ab]b[^`S¥a\_`ab[a]`W`\_]a`a¥I¥`]NN^``[M  
@HWI-EAS443:3:42:771:553#0/1  
AGCGCTTGTTTCGCACCGAATGGATCCCAGAATNTGTTCT  
+HWI-EAS443:3:42:771:553#0/1  
abaaa\_aaaaaaab`aaa\_a\_a\_Y`````\_aQQUDNa\_`\_\_

@HWI-EAS443:3:51:884:453#0/1  
GGATGGTCTTTCTGCTTTTGATGAGAGAAGAAGGCTTCA  
+HWI-EAS443:3:51:884:453#0/1  
aaaaa\_N\_]abb¥ab¥aaaba`aa`a\_a¥`aa`a][`a^`  
@HWI-EAS443:3:64:231:1562#0/1  
GTTTCAGCTTTCTTACTTGATCCATCATTGCCCTCTGG  
+HWI-EAS443:3:64:231:1562#0/1  
a`aaabaaaaaaaaaaaaaaaa`aaa`\_a`\_\_a\_``a]X]  
@HWI-EAS443:3:80:340:140#0/1  
GTGGTCAGCCTGATGAGACCAAATGAAAACCCAACTCCAG  
+HWI-EAS443:3:80:340:140#0/1  
a[¥` []YY]U)^SZ[Y[Y[¥[\_YYYZSY¥UVT]XYV¥SPP  
@HWI-EAS443:3:90:984:1899#0/1  
ATTTGGTCTCATCAGGCTGACCACTTGGCTGTTGTGTGGT  
+HWI-EAS443:3:90:984:1899#0/1  
Oaa¥SSab^ZaWWaab`]^a]V¥P^V^baaBBBBBBBBBB  
@HWI-EAS443:3:46:766:1825#0/1  
CTAATNCAGAATAGCATAACAATAGAGAGGATGGTGATTT  
+HWI-EAS443:3:46:766:1825#0/1  
abbb]DZb\_ab`¥a[`a\_\_W^`aabaaa^YRa\_P^JOX\_  
@HWI-EAS443:3:16:1463:97#0/1  
GGTCTTTCTGCTTTTGATGAGGGAAGAAATAAATACGTA  
+HWI-EAS443:3:16:1463:97#0/1  
[b\_b^abbabb`T]^`[ZQVRMOGZXK`N]]UYXLN]HDO[  
@HWI-EAS443:3:17:518:1418#0/1  
CTCGGGATCCCTCCGGTGCGAACAAGCGCTCTTGTTC  
+HWI-EAS443:3:17:518:1418#0/1  
RZ]Tab\_\_bRKRabbb]WbbT]bb\_b`b`bIGX]a\_aa^`  
@HWI-EAS443:3:26:1026:1600#0/1  
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+HWI-EAS443:3:26:1026:1600#0/1  
`\_`ab^¥baa]Y```Y[\_a[¥a\_\_`Y]Z]]HP¥aBBBBBB  
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+HWI-EAS443:3:42:798:1700#0/1  
T\_VY]Xba`[ZZ^\_W¥U]\_\_`\_^a`UZZ\_\_[RZ\_YW`[O[  
@HWI-EAS443:3:47:1639:1713#0/1  
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+HWI-EAS443:3:47:1639:1713#0/1  
aa\_[Za\_a\_Q^`\_[]P]\_``YWT^\_\_]`P¥XP`RBBBBBB  
@HWI-EAS443:3:54:1257:1357#0/1  
GACGGTCCTGCTGTTTTCTTAGGGTCCTTCCCAGCACTG  
+HWI-EAS443:3:54:1257:1357#0/1  
U\_S\_T^U\_¥[F[bb`bba`b\_TX^WZZPXa[UP¥V\_`aaa  
@HWI-EAS443:3:80:266:1903#0/1  
GAACAATACCCTCAAAGGAAAATTTCAAACAGCTGCCAG  
+HWI-EAS443:3:80:266:1903#0/1  
TRH\_WXS^T]a[QTX`¥bbb\_W\_\_baa`aLa``Q`\_`P[  
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AGGGAGTACCCTTCCCTTTCAAAGTGATGCCCACTTGCTA

+HWI-EAS443:3:81:1161:1337#0/1  
`aPT`\_JaP`\_`a\_\_\_\_aaa]ba`bRL\_aaZ]aQaaU\_X]\_  
@HWI-EAS443:3:86:318:753#0/1  
ATTTGGTCTCATCAGGCTGACCACTTGGCTGGTTTGGGGT  
+HWI-EAS443:3:86:318:753#0/1  
R\_\_UZ[ab`[a\_ba]^aaaa[aa]a`]aaa\_00^^KZH¥X  
@HWI-EAS443:3:87:1685:1871#0/1  
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+HWI-EAS443:3:87:1685:1871#0/1  
^P^Ua\_Y`^a^R\_`WP^U`¥]Z¥UUXGOWSSMPZ^ZUZWW  
@HWI-EAS443:3:96:1027:1380#0/1  
ATTTGGACTCATCAGGCTGACCACTTGGCTGTTTGGGGT  
+HWI-EAS443:3:96:1027:1380#0/1  
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@HWI-EAS443:3:11:1488:927#0/1  
CCGGAATGGATCCCAGAANGTGTCTCTAATGCAAGGTTTC  
+HWI-EAS443:3:11:1488:927#0/1  
abbbbbbbba`^]aaaYD]ababababaaaa`a\_aaYa`  
@HWI-EAS443:3:19:1647:351#0/1  
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+HWI-EAS443:3:19:1647:351#0/1  
a[UZ]¥YVaQ\_RODPNVP[ORRNTVSKZ¥[S^Q¥¥TGTUV  
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+HWI-EAS443:3:31:1230:1017#0/1  
\_¥¥`abbaaaa^bba\_]R\_ZFP^LDWO[aYF[Ya\_NS[aU  
@HWI-EAS443:3:33:744:266#0/1  
TGCACATTTGGATGTAGAATCTCCCGATTNCAACAATCAT  
+HWI-EAS443:3:33:744:266#0/1  
Z[^b`b`a^\_LY^a\_a`^ZV[S^¥`X[\_ZDX]YOZUDHXU  
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CCAGAAAACGCTGAGATTGAAGACCTCATTTNCCTGGCAC  
+HWI-EAS443:3:70:988:787#0/1  
ababaabbabababbaabb`¥\_aaab]aab^DTZa]]\_a`  
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GAGGGGCGAAAATGGACGAAGGNCAAGGGTTGCTTATGAA  
+HWI-EAS443:3:97:1023:1158#0/1  
aab\_aaGaRUPUP¥a]a\_RYaUDR^`U`G[\_Z\_V]Q]\_]\_  
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GCTGGGTTTTCATTTGGTCTCATCAGGCTGACACTTGGCT  
+HWI-EAS443:3:47:1217:1140#0/1  
aaaaa\_N\_aaa\_\_\_\_`XX\_`[^a^\_\_\_\_^\_`^[TKP¥BBBB  
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GACTTTGAAAGGAAGGGTACTCACTGTCCGGATAGACCC  
+HWI-EAS443:3:92:1358:403#0/1  
ab^abbbbaabaabbab¥a`aab`bb\_aaba\_``aYFW\_  
@HWI-EAS443:3:14:1193:291#0/1  
CCCCATCAGAATGAGTGCTGACCGTGCCAGGAAAATGAG  
+HWI-EAS443:3:14:1193:291#0/1  
aaaaW`aaaa[\_`L`V`XW]^P\_`O^[[^]`[\_¥¥[aX[



@HWI-EAS443:3:33:1419:1863#0/1  
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+HWI-EAS443:3:33:1419:1863#0/1  
^b^`abV\_XWZa\_U¥bb^`abaaSa`^aaab[S¥G¥``GL  
@HWI-EAS443:3:39:65:200#0/1  
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+HWI-EAS443:3:39:65:200#0/1  
\_`babbbbbbba````aaaab\_L^aabbbaaaab`Zaaba  
@HWI-EAS443:3:47:1665:11#0/1  
ATCCAGAATAGCATAACAATAGAGAGGATGGTGCNTNCTG  
+HWI-EAS443:3:47:1665:11#0/1  
aa`aaa`b]b\_a`````\_a]`[`[aa¥W¥NMXTDZDDSR  
@HWI-EAS443:3:47:186:719#0/1  
CGATACGGTCCTCCTGTTTTCTTAGGGTCCTTCCCAGCAC  
+HWI-EAS443:3:47:186:719#0/1  
aabbbaa`aQaa\_\_a]¥)`aaV`X^^[P\_`\_Ya\_`YRY^Z  
@HWI-EAS443:3:52:650:698#0/1  
GAGAGAAGAAAAGCACCATCCTCTCTATTGTTATGCTATTC  
+HWI-EAS443:3:52:650:698#0/1  
\_`bXa^a[HYXZa\_[^]YR]`[`]\_\_`^X[\_]SVa\_`]]  
@HWI-EAS443:3:56:78:439#0/1  
CATAATCACTGAGTTTGAGTTCAGTGCACATTTGATGTAG  
+HWI-EAS443:3:56:78:439#0/1  
PR\_a\_Z\_Y¥b\_V^abaZW]aaYZb\_aa]``\_[]`^[^V[]  
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GCGCCAAGCAAACANTGGCGAAGATGCAACAGCAGGTGTT  
+HWI-EAS443:3:86:1363:519#0/1  
Y¥\_a`abbbbaa^DSab¥baaaa`aa]a`a`¥aaaQF[`  
@HWI-EAS443:3:11:1789:1654#0/1  
ACGGGTCCTCCTGTTTTATTAGGGTCCTTCCCAGCACTGG  
+HWI-EAS443:3:11:1789:1654#0/1  
\_`b^^SHaaVbUa`^ZbGaaZBBBBBBBBBBBBBBBBBBB  
@HWI-EAS443:3:12:1597:1646#0/1  
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+HWI-EAS443:3:12:1597:1646#0/1  
T]QY]`¥``aJSZaaXGaTN¥V`a`XHIUXbVaJV¥G]ZB  
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GAGGTCCTCCTGTTCTCTTAGGGTCCTTCCCAGCACTGGG  
+HWI-EAS443:3:35:1487:1400#0/1  
Z^``¥bbbaaabbab`Z`a]W^aaabbaab^Ya`Xa  
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+HWI-EAS443:3:51:1178:722#0/1  
aaabbabbb`abba\_`babbbab^`abbb`aaaaa`bb]  
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+HWI-EAS443:3:55:1237:377#0/1  
[\_`bTbb`bbbaabbb`baab`bb\_bbbbab\_ba\_ba\_b  
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+HWI-EAS443:3:55:714:930#0/1  
¥DZ\_[aaa`a]Va\_\_a[ZYYZ\_^`^^X`\_``\_[aa\_\_^\_  
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CAGCCCCATTGCTATTGTTCCAACCTCTTTCACCGCAGCA  
+HWI-EAS443:3:1:1052:1514#0/1  
`ab`ba¥b\_\_bab`aaaWbZXbXaaa]b\_``a`^aMa`\_B  
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CAAACCTCAGTGCACATTTGGATGTAGAATCTCCCGATTCC  
+HWI-EAS443:3:22:523:1648#0/1  
aa^`\_YaaYEWbaaaa]N]Z¥Z\_UVS`^^TXZSX\_Y]LP`  
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GATCCATTCAAATTACTCCAAAACAGCCAAGTGGTCAGAG  
+HWI-EAS443:3:26:826:349#0/1  
¥TMZ¥I[abbWa¥W\_Zb¥aaaIb`\_a`Zb`¥\_U^YQa\_GW  
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CAAGTGGTCAGCCTGATGAGACCAAATGAAAACCCCGCAGC  
+HWI-EAS443:3:31:1120:1494#0/1  
aba`U``[¥^Z`W\_\_[^`a\_[\_`\_`V`^`^`\_[]a]\_T  
@HWI-EAS443:3:60:1417:569#0/1  
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+HWI-EAS443:3:60:1417:569#0/1  
\_O[MTKU¥]a`Q¥]\_U[XPXZZ¥X[Z^[¥¥UJWPQZP¥¥P  
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+HWI-EAS443:3:76:1136:623#0/1  
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a`X[babab[\_a`bXbbabXa`aVa]`Y^a`\_]\_SX]a``  
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+HWI-EAS443:3:85:731:1855#0/1  
ab\_`a[TbaJaHW]YY`JT^]Z`Z\_N\_a0aYT\_GJUJJ¥^  
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+HWI-EAS443:3:90:767:1060#0/1  
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+HWI-EAS443:3:91:250:784#0/1  
a]`\_aa`bV`b``a^a^`\_aa]\_^aa\_a`a`\_[a^`\_Z  
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ACCCCGACCAGTGAAGTACCCTTCCCTTTCAAAGTCNTGCC  
+HWI-EAS443:3:79:1433:1275#0/1  
a¥PU`U]aU\_bGaZN¥a^GVa\_Z^`^a^Ua]^]KQDX^FJ

@HWI-EAS443:3:15:1522:780#0/1  
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+HWI-EAS443:3:15:1522:780#0/1  
[\_b\_\_abab^¥IZI`aaY`Z\_LV^\_aYUXRX\_\_XY`a¥aZ  
@HWI-EAS443:3:17:1401:1403#0/1  
TTGGGTCCTCCTGTTTTCTTAGGGCCCTTCCCAGCACTGG  
+HWI-EAS443:3:17:1401:1403#0/1  
`^^^aX`Zba]^]MOX`ZYYaWXWFSYXMX]TPOILLTZP  
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GTCGGAAGAATGATTGGTGAATCGGGAGATTCCACATCT  
+HWI-EAS443:3:24:650:776#0/1  
a\_aaa```aa`^\_\_a\_U\_\_\_\_\_^\_\_`^Z^¥[¥`^]]Y  
@HWI-EAS443:3:52:955:1699#0/1  
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+HWI-EAS443:3:60:454:191#0/1  
K\_bYY[aYIXZ¥\_Zab\_]`K]aQWU¥\_WGO]XF¥FWZXT¥  
@HWI-EAS443:3:6:770:664#0/1  
GGGTTTTCATTTGGTCTCATCAGGATGACCACTTGGCTGG  
+HWI-EAS443:3:6:770:664#0/1  
\_¥Y`YRY`]Z[PZS][Z]^U\_TKGW\_VaWTP[\_BBBBBB  
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+HWI-EAS443:3:76:1171:304#0/1  
ab\_abbbaaaa`aaaaab[aa`a`^`aa\_\_aW\_Z]U`]aa  
@HWI-EAS443:3:79:1292:792#0/1  
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+HWI-EAS443:3:79:1292:792#0/1  
abaaaba`baaaaaab^a]a^a^[aaa`\_aa`a\_\_a`^\_a  
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+HWI-EAS443:3:82:1550:938#0/1  
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@HWI-EAS443:3:91:1606:588#0/1  
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+HWI-EAS443:3:91:1606:588#0/1  
W`R¥a[\_bV\_H\_W^b````a\_abY`b\_]L]T\_a¥abaaB  
@HWI-EAS443:3:92:508:1466#0/1  
ACGCTTGTTTCGCACCGGAATGGATCCCAGAATGTGTTCTC  
+HWI-EAS443:3:92:508:1466#0/1  
aa\_aaaaX\_X`a\_\_\_\_\_^WZ\_\_¥\_U\_]X\_]U]]Y¥  
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+HWI-EAS443:3:100:426:679#0/1  
`aaaaaVba\_Vbba`Zaaaa\_\_a^a^]U`\_\_¥`a\_aQ\_T\_  
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AGCGCTTGTTCGCACCGGAATGGATCCCAGAATGTGTTCT  
+HWI-EAS443:3:100:803:1603#0/1  
a\_``\_aaa¥aa``^Za`a``\_a`W]W\_XZV\_\_W^^¥TB  
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+HWI-EAS443:3:10:1785:90#0/1  
a^)\_`\_]PNZa]Y\_]UR[`Y]HZY[W]W]Y¥WW[ZWWBBB  
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GTTGCATCTTCGCCATTGTTTGCTTGGCGCCAAACTATCC  
+HWI-EAS443:3:13:1572:281#0/1  
`\_a]S\_XXaa`W\_¥\_V]Q¥`¥[ZX^)`YW¥^S[TRXXWRX  
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AGAACACATTCTGGGATCCATTCCGGTGCGAACAAGCGCT  
+HWI-EAS443:3:18:1235:1564#0/1  
[]V]V`b\_a\_a[aV`JV[Y`¥^`¥[\_Ga`\_\_a\_\_W\_Z^W  
@HWI-EAS443:3:21:588:1147#0/1  
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R`bVWWK`V]baY^b^Yb`abb^W\_ab]UVGY`aa¥D¥YV  
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+HWI-EAS443:3:22:684:1972#0/1  
ab``aa]a\_a\_aZ\_VZ\_RZ\_aVG^aU[UG]\_X]^H[X]\_U  
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+HWI-EAS443:3:34:739:1826#0/1  
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+HWI-EAS443:3:35:248:1397#0/1  
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+HWI-EAS443:3:40:591:1038#0/1  
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@HWI-EAS443:3:43:717:266#0/1  
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+HWI-EAS443:3:43:717:266#0/1  
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AGAACACATTCTGGGATCCATTCCGGTGCGAACAAGCGCT  
+HWI-EAS443:3:47:877:1013#0/1  
\_`[a]b^Raa`[]aa`Z\_Y\_\_`\_Ha\_Q\_\_a¥`¥^[US\_UY  
@HWI-EAS443:3:51:535:1341#0/1  
GTGGTTTCTGCTTTTGATGAGAGAAGAAATAAATACCTAG  
+HWI-EAS443:3:51:535:1341#0/1  
a`[G¥aaa`]aaaa`aa\_a``aaa`a``a````\_a`

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+HWI-EAS443:3:52:1510:2007#0/1  
U]F]`¥]U[bYb`X¥Sa`aUYT`K\_]`¥\_aa`b`HDZb  
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+HWI-EAS443:3:52:59:522#0/1  
aaaaaaaaa`a`a`abb^\_\_aaa\_\_\_^Z^^[`aYa¥^T]  
@HWI-EAS443:3:54:759:918#0/1  
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+HWI-EAS443:3:54:759:918#0/1  
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TGCTTTCTGCTTTTGATGAGAGAAGAAATAAATACCATGA  
+HWI-EAS443:3:56:1090:638#0/1  
aa¥`]^`[^`^`^`]]a`aaaVaa[``]b\_Y]\_VWaab`  
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+HWI-EAS443:3:59:1576:815#0/1  
¥]\_b`b[Yb]a`\_]Sa`a`aQ¥XaaBBBBBBBBBBBBB  
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+HWI-EAS443:3:59:1605:975#0/1  
Vbabbabaa[Z[a`b`a]Xbbbbbbbaa\_b`S``bYG\_]\_  
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+HWI-EAS443:3:59:228:1373#0/1  
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+HWI-EAS443:3:59:793:336#0/1  
^^`IV\_]Y\_abba\_^`ab¥¥aabbbaaaaa\_YX¥]GXYX  
@HWI-EAS443:3:59:863:389#0/1  
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+HWI-EAS443:3:61:114:959#0/1  
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@HWI-EAS443:3:61:1670:1994#0/1  
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+HWI-EAS443:3:61:1670:1994#0/1  
[P]IYaa\_ZbaaVa^bb)`[bba\_ZV\_XN[Z\_UXTV`TEL  
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+HWI-EAS443:3:62:1264:443#0/1  
aa\_X]]aa^`^Y\_^^^a^`\_\_^^XQQSZ¥`\_Z\_^^^Z  
@HWI-EAS443:3:62:649:323#0/1  
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+HWI-EAS443:3:62:649:323#0/1  
XVM¥ZZ\_R\_]`[aa]ZX)`RW¥¥Y^R^aa`HZ\_^¥VW]aa  
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[^UGV^a`\_[Q\_¥PXWZT¥^baXaX`\_b]WP^\_Q\_[]`aa  
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\_]ab`])`b`a`baa¥ZZTY\_a`aX[a`^XX^VFT]¥S¥  
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+HWI-EAS443:3:67:437:1571#0/1  
a\_aYa`a¥`b\_aa^a^a[a\_`W^W\_`^¥S¥¥¥S[¥[WU  
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+HWI-EAS443:3:68:902:1538#0/1  
ab^a¥`aYa\_`^]aa`aa\_\_\_^`aaa^Y\_aa`\_[¥\_`\_^¥  
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+HWI-EAS443:3:72:801:223#0/1  
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+HWI-EAS443:3:73:1108:1733#0/1  
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+HWI-EAS443:3:73:444:259#0/1  
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+HWI-EAS443:3:74:331:179#0/1  
aaaaaa]a[``aaa`Va^^¥^\_Y]^[^YRRVZ[^RWPUSS  
@HWI-EAS443:3:78:930:1702#0/1  
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a`a\_\_aa^Z])a`a`a`\_`Z¥WY]SYZ\_[`^^\_WXU\_\_]  
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+HWI-EAS443:3:7:1404:912#0/1  
]babb^H\_aba[b[a]`bbbb`aSaX¥¥bY\_ba\_[\_[L\_  
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+HWI-EAS443:3:80:733:26#0/1  
XR\_ZX`b[¥`ZXV[aaSa\_a\_^`SZ`¥Z¥YSZZ^^U  
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CTGATTTGGAGTAATTTGAATGGGTCTATCCCGACCAGTG  
+HWI-EAS443:3:80:760:1924#0/1  
a`b¥abb[ab`\_bba\_¥]\_`aaa\_S`aa`[``aa¥a\_]W

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+HWI-EAS443:3:84:872:521#0/1  
aaaaaX^aa`aba^^]`a¥`\_`^`aaaa^LS[¥BBBBBB  
@HWI-EAS443:3:85:1055:541#0/1  
CGCGATATCCTCAAAGGAAAATTTCAAACAGCTGCCAGA  
+HWI-EAS443:3:85:1055:541#0/1  
ababbbabbababbbb]bababbbaaa\_`ab``ba\_\_`a^  
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+HWI-EAS443:3:85:359:886#0/1  
aa\_aZ\_\_a\_`^aaaaQ\_ZYRMM^\_VU^`¥¥^IU\_\_FONU  
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+HWI-EAS443:3:88:1352:893#0/1  
a``\_OZ^W`aU`] []ZabY^^\_a¥¥VY`¥^U[a¥`` [ `N]  
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AGCGCTTGTTTCGCACCGAATGGATCCCAGAATGTGTTCT  
+HWI-EAS443:3:93:826:920#0/1  
a¥a]`^¥a^]a\_]``aaa¥Y]\_```Z\_ZVXZ```V\_Y¥^a  
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¥babb`b`abbaaU\_]babbbbZa\_abaaba[aaba\_\_a  
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+HWI-EAS443:3:95:601:818#0/1  
aa`VZbbbV\_]ba`\_a`\_a\_a¥a[ `Y^X` `U¥`ba`\_`\_\_  
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+HWI-EAS443:3:9:1164:960#0/1  
a\_¥Y^aa\_a^\_aaaa`aa\_`\_`\_`a`a`aaa```X]¥a\_  
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+HWI-EAS443:3:9:952:649#0/1  
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CATGGTCTCCTGTTTTCTTAGGGTCTTCCCAGCNCTG  
+HWI-EAS443:3:32:1128:849#0/1  
a^ab[[ZW`]W]ab¥Q¥][a¥]aXVP]a`[\_`\_R` [DOZa  
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+HWI-EAS443:3:100:480:1524#0/1  
`a¥X` [ ` [a¥]¥\_\_^`Z`^`aR\_\_¥R¥[XTS¥^BBBBB  
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+HWI-EAS443:3:100:518:1025#0/1  
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+HWI-EAS443:3:100:823:1472#0/1  
Y¥`¥` `a`bab¥b00ZJab\_\_b[0\_a`¥]a`W[`Y` `a`  
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TGACCGTGCCAGGAAAATGAGGCCTTCAATCTCAGCGTTT  
+HWI-EAS443:3:10:1110:1129#0/1  
aZ^¥Qa` `][\_`\_^[U¥\_\_[XTGQ^\_\_`^¥NXU\_VR\_W[R  
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+HWI-EAS443:3:11:337:1519#0/1  
X`b`¥bab¥aU¥`^a\_\_babbbba^`bb^[aYa]D^`a`b  
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+HWI-EAS443:3:11:872:1497#0/1  
V`b`¥SZ[¥abWI`¥`^a^TWa\_\_`]ab]WWa\_aTDNS[U  
@HWI-EAS443:3:12:1641:207#0/1  
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+HWI-EAS443:3:12:1641:207#0/1  
YQQ\_bab]]TX\_¥TY0^abVNRYOYZ[GylU[][^Y`QYU  
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+HWI-EAS443:3:12:191:488#0/1  
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@HWI-EAS443:3:14:1324:1245#0/1  
GGGGAGCGCCAGGATGCCACAGGAATCAGAGCATCTGTGCG  
+HWI-EAS443:3:14:1324:1245#0/1  
¥]`\_ZZ\_a^TV¥T\_Y[S`[XZ]HZTY^YVX¥NS[JGZQLB  
@HWI-EAS443:3:14:148:1388#0/1  
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+HWI-EAS443:3:14:148:1388#0/1  
a¥¥`\_a]abbaaa`UX^W¥]\_` ` `\_\_^\_\_U\_\_[^US]]  
@HWI-EAS443:3:15:1150:1207#0/1  
CACGGTCAGCACTCATTCTGAGGGGATCAGTCGCACATAA  
+HWI-EAS443:3:15:1150:1207#0/1  
X`ab`XT¥[[OR[a` ` `b` `a`T]WR\_Z¥bOFMW\_]b]^R  
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TGTTGCATCTTCGCCATTGTTTGCTTGCGGACAACTCTC  
+HWI-EAS443:3:15:1419:634#0/1  
]aZZ`¥` `SSabTX]NY^`S\_a\_SS]RW\_YJI]^FHS\_P



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a]b^Q\_SS^IPRO^V[a]S]abaTWY^JN]^\_QV^RaVWD  
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+HWI-EAS443:3:15:450:790#0/1  
Z\_I[bbbb\_`bbZb` `abXTV]aababbabaa\_abaaaa^  
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+HWI-EAS443:3:15:554:1120#0/1  
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GTGGAATCGGGAGATTCTACATCCAAATGTGCGCTGAACT  
+HWI-EAS443:3:16:1757:293#0/1  
`^]\_aa`F¥b¥Q`\_`\_`\_[Y\_¥]XVRY[UaJFQZ]^MBB  
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+HWI-EAS443:3:16:677:114#0/1  
aaaabaa`G¥`a¥aaaa\_a^`aa` `a`^¥a`\_U¥^`^`Z  
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CTTCGCCATTGTTTGCTTGGCGCCAAACTGTCCTTATTTTC  
+HWI-EAS443:3:16:706:1790#0/1  
abba]Xa^¥a` `\_] [^XU¥¥a[JSY¥]TTFX] []¥O[[^X  
@HWI-EAS443:3:16:902:930#0/1  
GCATTAGAGAACACATTCTGGGATCCATTCCGGTGCGAAC  
+HWI-EAS443:3:16:902:930#0/1  
aaabaaaaaaaaabaaaaa`\_`]a`a\_\_`a\_aa`¥\_\_\_\_\_¥  
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GTTCGCACCGGAATGGATCCCAGAATGTGTTCTCTAATGC  
+HWI-EAS443:3:17:1749:1317#0/1  
\_\_]Za` `] ` `QYVYUYPWYMF^R]VZN]RZ¥MDMXLSVB  
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CAGAAGGTCTGGTGCCGAGGTGCTGCGGTGCAAGGAGTT  
+HWI-EAS443:3:17:210:951#0/1  
a`bTJ]aM`ab^Ma]^¥W^`ZW\_^^`Q`GMDD`Y^UUW\_  
@HWI-EAS443:3:17:491:995#0/1  
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+HWI-EAS443:3:17:491:995#0/1  
a` `a]\_aaYV`a` `aaa\_\_aa]^`^XDL`]UOYWOR]GT[  
@HWI-EAS443:3:18:1016:969#0/1  
TAATCACTGAGATTGAGTTCAGTGCACATTTGGATGTAGA  
+HWI-EAS443:3:18:1016:969#0/1  
`ZY^UQ]b¥¥XGaa¥VaaabTY^R\_a]XaX¥VITQaSPT¥  
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+HWI-EAS443:3:18:1289:977#0/1  
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+HWI-EAS443:3:18:778:1408#0/1  
^`Zb`abaabb`ZF¥ba`\_a¥SQ^aa`PX¥W]^`[\_a\_  
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+HWI-EAS443:3:19:1217:819#0/1  
aa`[\_`bba]abaa]aaaa\_a``¥]^a`\_a`[\_`a\_\_W\_\_\_\_  
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+HWI-EAS443:3:19:1381:1532#0/1  
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+HWI-EAS443:3:19:1544:1762#0/1  
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+HWI-EAS443:3:19:601:166#0/1  
\_baXaababaa\_abb`aaaaa\_\_aaa`\_Z`a````\_^^^  
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+HWI-EAS443:3:19:768:1942#0/1  
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+HWI-EAS443:3:1:1035:1277#0/1  
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+HWI-EAS443:3:1:1180:867#0/1  
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+HWI-EAS443:3:1:1688:1214#0/1  
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+HWI-EAS443:3:1:991:1856#0/1  
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+HWI-EAS443:3:20:1648:740#0/1  
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+HWI-EAS443:3:20:1678:1794#0/1  
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+HWI-EAS443:3:20:427:1116#0/1  
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+HWI-EAS443:3:21:715:504#0/1  
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+HWI-EAS443:3:22:99:320#0/1  
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+HWI-EAS443:3:23:1040:1018#0/1  
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+HWI-EAS443:3:23:692:844#0/1  
^[X`aa\_¥^a[F[baa\_W^a\_]a`a[a¥a^[X]\_]`¥^Q`  
@HWI-EAS443:3:23:778:45#0/1  
CAGGCAGGCAGGATTTATGTGCAACTGATCCTCTCAGAAT  
+HWI-EAS443:3:23:778:45#0/1  
abbaa` `ba]a^`a\_a`\_Va` ``¥aaa`¥\_\_^\_¥a`\_^ [  
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+HWI-EAS443:3:24:1074:1146#0/1  
aaa` `^H¥aa^Z\_a` `[`` `aWU¥\_Qa`\_V`a^a]\_`a^^  
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+HWI-EAS443:3:24:328:318#0/1  
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+HWI-EAS443:3:24:753:2040#0/1  
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+HWI-EAS443:3:24:851:1830#0/1  
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+HWI-EAS443:3:25:1115:99#0/1  
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+HWI-EAS443:3:25:540:478#0/1  
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L^aaaa¥^X[\_`aX0[`ZZ`Z¥PWZZMG]U^¥F¥^SYRXT  
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+HWI-EAS443:3:28:1177:347#0/1  
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+HWI-EAS443:3:29:1184:522#0/1  
a`^a`a` ` ` ` ` \_a\_Y]\_Y` `]\_\_\_\_]`\_^VY^X\_\_\_\_^Y\_BBB  
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+HWI-EAS443:3:2:1057:259#0/1  
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+HWI-EAS443:3:2:1156:1862#0/1  
aaaa^ZaaaI]a]aaaa`Ra]P¥]\_a[F[\_YZ\_\_¥ZS]V  
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+HWI-EAS443:3:2:288:1388#0/1  
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abb`\_b`La`aabaa\_VYaZ¥`YXS]^\_R\_TIYEX\_\_a`S  
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+HWI-EAS443:3:31:1114:1701#0/1  
\_\_bba``aab^bbbbbb`abba\_babbaaba`M]abbXP¥  
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+HWI-EAS443:3:32:1035:1894#0/1  
aa`\_a]]\_``a\_X\_]`\_]`X^\_XX]]XX^XHR]VHNUBB  
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¥¥\_\_L`a`aa\_H^baaa`^`ab`^[\_^\_aa``a\_[`aa`  
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+HWI-EAS443:3:33:1490:116#0/1  
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ATCCAGAATAGCATAACAATAGAGAGGATGGTGGTTTCTG  
+HWI-EAS443:3:33:1517:1825#0/1  
\_]Z``a\_\_\_aa]\_]```a```]``^]PYX]WWQMM¥^VVS  
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+HWI-EAS443:3:36:1235:1873#0/1  
a¥` `[W[P\_a[ZG^[\_]\_]\_^G[\_Oaa]`Z`¥TWZS¥a[[  
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a^a^a`]b`abaaV¥Z¥]E] []a¥T`ZU`PYS^YNZPV  
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+HWI-EAS443:3:36:994:1076#0/1  
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+HWI-EAS443:3:37:1186:750#0/1  
aa`a`aa¥`]G]`\_a¥aa`^a`^X`]aQ^aa¥`¥`¥`Z  
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TAGAGAACACATTCTGGGATCCATTCCGGTGCGAACAAGC  
+HWI-EAS443:3:37:1463:726#0/1  
a\_\_aaba^b^a`a`]a`a`\_`aaaab[a^MYa`a`a]a\_  
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+HWI-EAS443:3:37:1667:1214#0/1  
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+HWI-EAS443:3:38:153:121#0/1  
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\_¥aa\_Ya]`aa[a\_`ab\_N][Y`a`^T`a]XZPZX`T\_  
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+HWI-EAS443:3:40:515:69#0/1  
aabbbaaabababaa^bab`abbaaZH]]^`¥\_\_^P]`\_]\_  
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+HWI-EAS443:3:40:597:811#0/1  
a\_aaaa]a\_\_\_\_aa`a`a]¥Y\_\_`\_\_^GW\_T^]\_]\_]V\_  
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+HWI-EAS443:3:42:1064:1267#0/1  
`¥\_^Zbbb`QZ¥b¥L^S^[¥0^\_\_Z[][^\_`^]V`\_`\_]\_a  
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+HWI-EAS443:3:42:132:1859#0/1  
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+HWI-EAS443:3:43:1152:1449#0/1  
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+HWI-EAS443:3:43:1457:1151#0/1  
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¥\_b]abbbM`QYK[]`aaVX]VaU¥UGXWWWIRV¥G¥¥PLF  
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aa\_^^V\_¥¥`aaY¥b^`ZWIZU^XEXWXX^a^SV^LI[J  
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+HWI-EAS443:3:45:302:915#0/1  
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+HWI-EAS443:3:46:1417:1683#0/1  
a`^a\_\_aZa]Y]Za]) [N^W¥\_ZZZ\_]\_QURW]W^^Z][V  
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+HWI-EAS443:3:46:56:29#0/1  
a\_aaa` \_\_\_\_ `V\_[[` `[a^a\_`RS^`Z[`W[[Z¥Z[[YVU  
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^`bXaaa^aaa¥J]^`\_M¥aa`\_PZ\_W[\_I]TDR]XX\_\_  
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+HWI-EAS443:3:47:1646:1314#0/1  
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+HWI-EAS443:3:47:218:1176#0/1  
^\_]\_b[Z\_ba[\_b`UaUS\_\_]\_H[]\_]R\_aa[Y]baabaV  
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GGAGGGGTGAAAATGGACGAAGGAGAAGGGTTGCTTATGA  
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`aa^`a^ab`Za\_]a^]¥T¥`aVY`Q\_^[\_aX\_V¥`RZ  
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+HWI-EAS443:3:49:894:423#0/1  
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+HWI-EAS443:3:49:993:1921#0/1  
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+HWI-EAS443:3:4:1575:140#0/1  
a[babYab]¥]\_\_`V`aY[G\_P^a``[KSYZ]]R^`[UUB  
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+HWI-EAS443:3:50:1106:263#0/1  
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+HWI-EAS443:3:51:1606:98#0/1  
0a^N\_ZJ`b`aZJ`b`aVa¥aaa`a¥\_\_^Z¥^Ia\_bbbZ  
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+HWI-EAS443:3:51:928:1307#0/1  
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`aabb`bbaab\_aaaa\_bb\_aaa`a\_a\_]a^^H\_aaa`a\_  
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aaaaXQVaba]Y\_`^W``\_a`N]Y`Y`[a[^`¥NX[XIM\_  
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+HWI-EAS443:3:52:568:1978#0/1  
a\_X\_]a\_R\_`[PV]\_``[\_^aX]^`\_^[R^\_a]`^^^]]  
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+HWI-EAS443:3:52:737:1256#0/1  
ababb`aba]aN^`\_\_`a^`\_aa]]`a\_\_\_\_^\_``\_a`\_]\_a  
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+HWI-EAS443:3:53:1373:1061#0/1  
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a\_SZ`XRXTZZ^TT[]HX¥U¥\_¥\_WY\_\_^a^\_RQLY\_Z`¥  
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+HWI-EAS443:3:53:300:1713#0/1  
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TAGAGAACACATTCTGGGATCCATTCGGTGCGAACAAGC  
+HWI-EAS443:3:53:610:879#0/1  
X¥¥¥J[\_WW¥]]a\_]baa¥¥a^^^]\_S\_]OZ`aZ[aa¥Z\_

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\_^]Kb`\_YY]a\_babG`W\_a¥JW]Nba\_`IU`^¥\_baX¥  
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+HWI-EAS443:3:54:172:854#0/1  
`¥aX`b\_^\_Z`]aV\_ba`^b¥X`Yaa`a`U`a]b\_\_  
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+HWI-EAS443:3:54:483:233#0/1  
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+HWI-EAS443:3:54:839:200#0/1  
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+HWI-EAS443:3:55:131:838#0/1  
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^baa\_ZZ¥\_X\_¥[U[U]^\_]RZP^L FV¥G]XGVO[RXQWN  
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+HWI-EAS443:3:55:1789:1316#0/1  
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\_P[J[`a`\_¥W^KY\_XDT\_^aaa^UDU`P¥F¥^\_[L[YXM  
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+HWI-EAS443:3:57:803:1395#0/1  
`^`a\_]\_b`b`]aZ`UZMVTV^[VRXZ]`\_V\_`\_N]]W]  
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+HWI-EAS443:3:5:1637:832#0/1  
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+HWI-EAS443:3:60:1290:740#0/1  
a\_a\_]aa\_a\_a^\_¥\_a`^`W\_¥¥WWWY[¥¥¥U¥¥¥VWW¥W  
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abbbbabba`^`[¥```\_T\_]Z`\_a[`^a\_``^`[\_T  
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+HWI-EAS443:3:60:985:266#0/1  
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+HWI-EAS443:3:61:17:1227#0/1  
UWU\_`b\_[Y\_Q^]\_X^T\_T\_[QJ¥T0aTSUUa\_\_]Q[N\_  
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GCATGACTTTGAAAGGGAAGGGTACTCACTGTTCGGGATA  
+HWI-EAS443:3:62:1625:740#0/1  
]`\_`\_XS[aX]VIT]SZ`\_`aTSZ\_a^a\_^P\_HZL^\_\_X\_X  
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a[\_\_\_X\_\_\_VXZ\_KY^Q`^`^UZ[¥U^PRQ]W¥FKXWYWB  
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+HWI-EAS443:3:64:144:1733#0/1  
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V\_¥GV\_ZZ¥`Z]T\_¥Z`\_Q\_RW[^V[V`]BBBBBBBBBBB  
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+HWI-EAS443:3:67:1211:1073#0/1  
\_YWaY``aV`UZJ\_S^X]`S]^]SKZ\_GF]¥\_[\_a¥FOW  
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+HWI-EAS443:3:67:733:1563#0/1  
a\_VZ]`^ZaRXPX\_00¥V[T\_RNQWZ\_\_aXWYFY\_[LTI\_  
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+HWI-EAS443:3:68:1487:1131#0/1  
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TGCTTTCTGCTTTTGATGAGAGCAGAAATAAATACCTAGA  
+HWI-EAS443:3:68:34:1687#0/1  
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CTAATCCAGAATAGCATAACAACAGAGAGGATGGTGCTTT  
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+HWI-EAS443:3:70:1124:209#0/1  
Xb`LSQYbYY[Yaa`aT`P^^W^\_VX^YYYYTT¥YFPRMOY  
@HWI-EAS443:3:70:535:1401#0/1  
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+HWI-EAS443:3:70:535:1401#0/1  
aaba]^YTa]aJb\_GWaaa`\_RSX[[]SS]aaYHXaFNYa]  
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AGAGGATGGTGCTTTTTGCTTTTGATGAGAGAAGAAATAA  
+HWI-EAS443:3:70:797:52#0/1  
U^^aba]¥Y\_\_QYQ\_HS\_0^^¥^Y¥\_P^¥W\_I¥`Y\_a`]]  
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CGCTTGTTCCGACCCGAATGGATCCCAGAATGTGTTCTCT  
+HWI-EAS443:3:71:1026:79#0/1  
abbbbbbbbaaaabbabbbbaa`^\_`aaa`a````a\_a]`  
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GGTTCAACACTTCCCAGAAGGTCTGGTGCCGAGGGGCTG  
+HWI-EAS443:3:71:1522:207#0/1  
X\_JZ\_aaaa]``YQ0\_^^\_\_OR\_V¥T\_`¥]GV¥ZF\_QHQ  
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+HWI-EAS443:3:71:54:95#0/1  
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CTAATGCAAGGTTCAACACTTCCCAGCAGGTCTGGTGCCG  
+HWI-EAS443:3:71:573:1088#0/1  
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GCTGTTTTGGAGTAATTTGAATGGGTCTACCCCGACCAGT  
+HWI-EAS443:3:72:752:1664#0/1  
^a`\_R]]^¥]Z¥[a^`[^Ubb\_]YSV¥``¥][a`b\_[a\_^

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+HWI-EAS443:3:73:1483:859#0/1  
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+HWI-EAS443:3:73:613:378#0/1  
abaa`a]aab]aaaa¥`¥``a\_[KX\_\_a`\_\_``\_X^\_]a^  
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ATCATGATTTGCCATTCCAACCTGAATGATGCCACATATC  
+HWI-EAS443:3:74:1236:1926#0/1  
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@HWI-EAS443:3:74:628:970#0/1  
ACTTGGCTGTCTTGGAGTAATTTGAATGGGTCTATCCCGA  
+HWI-EAS443:3:74:628:970#0/1  
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+HWI-EAS443:3:74:668:1969#0/1  
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@HWI-EAS443:3:76:316:1012#0/1  
ATTTCAAACAACCTGCCAGAGGGCAATGATGGATCAAGTA  
+HWI-EAS443:3:76:316:1012#0/1  
aaaaabaZb]E[a\_a`aRaXa`\_\_\_Y\_\_`¥\_¥¥^`¥^\_¥]  
@HWI-EAS443:3:78:1005:394#0/1  
GTTGCACATAAATCCTGCCTGCCTGATTGTGTGTATGGGC  
+HWI-EAS443:3:78:1005:394#0/1  
aa^NV[W`aZ\_a\_¥R¥aW^\_JVN[]R[QaX`NUU^R\_YUB  
@HWI-EAS443:3:78:1712:1309#0/1  
ACCTTGCATTAGAGAACACATTCTGGGATCCATTCCGGTG

+HWI-EAS443:3:78:1712:1309#0/1  
aZ¥a`aQaaaa`^W\_\_`YPXYWIKOZXTNHH\_`BBBBBBB  
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GAATCTCCCGATTCCACCAATCATTCCCTCCGACAGATGCT  
+HWI-EAS443:3:78:594:528#0/1  
aaa\_]`aa\_N\_¥a`aa\_a¥a\_\_\_X\_a`\_`a^Z`[Z\_]\_  
@HWI-EAS443:3:78:872:450#0/1  
CACTTGGCTGTTTTGGGGTAATTTGAATGGGTCTATCCCG  
+HWI-EAS443:3:78:872:450#0/1  
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@HWI-EAS443:3:79:106:797#0/1  
GCTGTTTTGAGTAATTTGAATGGGTCTATCCCGACCAGT  
+HWI-EAS443:3:79:106:797#0/1  
^\_`^OYY`HLO`]¥¥W[`ZOWYX\_ZDUUPXTZ]YUNOUOK  
@HWI-EAS443:3:79:858:767#0/1  
ACCGGAATGGATCCCAGAATGTGTTCTCTAATGCAAGGTT  
+HWI-EAS443:3:79:858:767#0/1  
aa``aaa`aaa`\_a¥\_a^\_aa\_`a`Z\_^a`\_`^R^\_^`^^  
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GCGCTTGTTCGCACCGGAATGGATCCCAGAATGTGTTCTC  
+HWI-EAS443:3:7:1335:518#0/1  
T¥bbbaba[MabbbaaYab[^`\_b`\_H]ba`bb\_babZaa  
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+HWI-EAS443:3:7:1685:1159#0/1  
Z\_aQQ\_YDYOWX¥T]ZY^\_ab`V^UaPNGHO]XRPSXaY¥  
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+HWI-EAS443:3:7:228:1362#0/1  
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+HWI-EAS443:3:80:1665:739#0/1  
aaa[\_U`0¥`a\_^K¥a¥\_¥^Y`\_]XFF¥T\_`a\_aPF[WS  
@HWI-EAS443:3:80:528:1008#0/1  
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+HWI-EAS443:3:80:528:1008#0/1  
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+HWI-EAS443:3:82:122:1580#0/1  
aaba\_aa]``a\_aaa[\_¥\_¥YNZZ]^¥Z^\_X¥Y\_\_\_YNMN  
@HWI-EAS443:3:83:1557:43#0/1  
CAAACCTCAGTGATTATGATGGAGGACTAATCCAGAATAGC  
+HWI-EAS443:3:83:1557:43#0/1  
`a]\_\_baS``b`aaaba`aa`XFZ^Ta\_\_^MG\_]Z]Z]T



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+HWI-EAS443:3:84:1040:1046#0/1  
]\_Z[ZZHL]^`TXOUW\_abbMZb¥V[NQ\_U¥a^T`aaa¥\_  
@HWI-EAS443:3:84:88:1880#0/1  
ATTCTGGATTAGTCGCCATCATAATCACTGAGTTTGAGT  
+HWI-EAS443:3:84:88:1880#0/1  
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@HWI-EAS443:3:85:987:2001#0/1  
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+HWI-EAS443:3:85:987:2001#0/1  
^Yaa][\_aa\_`\_`a]PLXNZ[`S\_XTW[¥W\_^\_[X^R\_S  
@HWI-EAS443:3:86:1352:1974#0/1  
AGGGTTGCTTATGAAAGAATGTGCAATATCGTCAAAGGAA  
+HWI-EAS443:3:86:1352:1974#0/1  
¥\_¥bY¥Z`b^a^`a¥U``UZ`[^`WabW[DRa¥a\_baaa  
@HWI-EAS443:3:86:1378:1974#0/1  
GGTCCTCCTGTTTTCTTAGGGTCGTTCCCAGCACTGGGAT  
+HWI-EAS443:3:86:1378:1974#0/1  
abPQ]]\_W[`¥a\_a]abaaQ`XZQ¥¥M¥Qaa]UJV\_I¥W`  
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+HWI-EAS443:3:86:1399:1164#0/1  
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+HWI-EAS443:3:86:88:975#0/1  
]^]Za``¥I`[aaaaSaX[[]\_\_`aa^a`¥\_^ZY`\_Q^L  
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+HWI-EAS443:3:87:1225:702#0/1  
\_Z`ba^\_R¥b``\_baX]R[^¥¥YUWMG¥\_``ab¥b[\_`¥a  
@HWI-EAS443:3:87:1488:1119#0/1  
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+HWI-EAS443:3:87:1488:1119#0/1  
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@HWI-EAS443:3:87:1725:1311#0/1  
GAACAAGCGCTCTTGTCTCTGATATGTGGCATAATTCAG  
+HWI-EAS443:3:87:1725:1311#0/1  
a\_abbaaa`^U^[\_`aYaa[aa\_``\_XNS\_\_\_\_`H`^NXS\_  
@HWI-EAS443:3:87:584:409#0/1  
CTTGCATTAGAGAACACATTCTGGGATCCATTCCGGTGCG  
+HWI-EAS443:3:87:584:409#0/1  
ZS¥[`abbb\_¥a`bbb]bb^^^bbaa`\_\_babaabVV`]a  
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+HWI-EAS443:3:87:834:1918#0/1  
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+HWI-EAS443:3:87:994:235#0/1  
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+HWI-EAS443:3:88:441:2039#0/1  
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@HWI-EAS443:3:88:812:1052#0/1  
ACTTCCCAGAAGGTCTGGTGCCGAGGTGCTGCGGGGAAA  
+HWI-EAS443:3:88:812:1052#0/1  
L^^`aa^R^\_P\_¥¥`\_`\_Z\_¥¥^ZYQMJM\_]V]Q]YETJR\_  
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GCTGTTTTGGAGTAATTTGAATGGGTCTACCCCGACCAGT  
+HWI-EAS443:3:89:1449:1308#0/1  
aa]b[aaaZa`bZ\_¥XXS]Pa^b¥XTMFOP]`T]]VRH¥U  
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+HWI-EAS443:3:89:254:471#0/1  
^Za¥baa``[``YOZWX\_VN`\_`[¥[[T[^R\_\_TV]]]\_Y  
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+HWI-EAS443:3:8:1010:1964#0/1  
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@HWI-EAS443:3:8:198:351#0/1  
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+HWI-EAS443:3:8:198:351#0/1  
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+HWI-EAS443:3:90:1403:68#0/1  
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+HWI-EAS443:3:90:203:99#0/1  
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+HWI-EAS443:3:90:255:549#0/1  
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@HWI-EAS443:3:90:387:1364#0/1  
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+HWI-EAS443:3:90:387:1364#0/1  
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+HWI-EAS443:3:90:640:1953#0/1  
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+HWI-EAS443:3:91:1028:813#0/1  
aaaa[HX\_XW^ZV[`abIGaaUW^a^aZaa[SW]SSa\_``  
@HWI-EAS443:3:91:167:476#0/1  
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+HWI-EAS443:3:91:167:476#0/1  
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+HWI-EAS443:3:91:386:897#0/1  
`Y¥MW¥` [^W^ZP]W[¥\_]^^ZZ]^^Z]^RY¥Z]V^Y  
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+HWI-EAS443:3:91:834:781#0/1  
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+HWI-EAS443:3:92:1459:1776#0/1  
\_bbRb¥JOW`\_WbaaUb[`YYLW¥[L^J` ``0^IaaROPH  
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+HWI-EAS443:3:92:1465:240#0/1  
¥]Y[X¥WZ[[Y[PM\_RWPYP¥¥UGW[ZOGX]P]NUWZQ^V  
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+HWI-EAS443:3:92:581:992#0/1  
aa^abaaaaaaaaaaaa`^aa`^a` `aa\_`]aa\_`[^\_a`  
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AGGCTGACCACTTGGCTGTTTTGGAGGAATTTGAATGGGT  
+HWI-EAS443:3:93:1198:296#0/1  
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+HWI-EAS443:3:93:1406:2011#0/1  
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GTTCAGTGCACATTTGGATGTAGAATCTCCCGGTTCCACC  
+HWI-EAS443:3:93:507:264#0/1  
a0¥GL¥K^ZZNU[\_\_\_`\_YSYRQ[]UTVTTTUTDNBBBBBB  
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AGAATCTCCAGATTCCACCAATCATTCTCCGACAGATGC  
+HWI-EAS443:3:94:1402:1953#0/1  
a^K\_ZP` `UDW]^0]S]GS¥XG\_YOMUWWKDO\_KXM\_BBB  
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+HWI-EAS443:3:94:1481:1377#0/1  
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+HWI-EAS443:3:95:1369:181#0/1  
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+HWI-EAS443:3:95:1400:2022#0/1  
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+HWI-EAS443:3:95:674:1196#0/1  
aaV\_a¥DVbb`a¥][a`[ZYY]`\_MaTa\_\_X`Xa]G]aUY  
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GAAGAGCATCCCAGTGCTGGGAAGGACCGTAAGAAAACAG  
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aaa]^aaa`a\_\_^Y¥a`aa`a\_\_`\_Z^\_^\_\_X\_^¥^  
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+HWI-EAS443:3:97:1154:93#0/1  
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+HWI-EAS443:3:97:1362:1043#0/1  
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+HWI-EAS443:3:97:1735:1708#0/1  
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TCGTGCATCATAATCACTGAGTTTGAGTTCAGTGCACATT  
+HWI-EAS443:3:97:847:1499#0/1  
TW[\_HY\_UZ]SZRYa\_WTZXQW]a`aX\_[UWIO\_\_[]ZBB  
@HWI-EAS443:3:98:1652:21#0/1  
AACCTGAATGATGCCACATATAAGAGAACAAGAGCGCTTG  
+HWI-EAS443:3:98:1652:21#0/1  
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@HWI-EAS443:3:99:1341:1012#0/1  
GCACATTCTCCATAAGCAACCCTTGTCCCTTCGTCATTT  
+HWI-EAS443:3:99:1341:1012#0/1  
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AGGCTGACCACTTGGCTGTTTTGGAGTAATTTAATGGGT  
+HWI-EAS443:3:99:238:2041#0/1  
^b^`\_\_`a`Z¥]a]\_`XXZ\_V¥OLQVQSYZBBBBBBBB  
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AAATTTCTGGAGGGGTGAAAACGGACGAAGGACAAGGGTT  
+HWI-EAS443:3:9:1482:180#0/1  
]]aaaa]aaa¥`aa`Ua\_\_`V`¥^Xa^S]\_\_^^)`\_^XZ  
@HWI-EAS443:3:9:1695:1049#0/1  
GAGAGGATGGGGCTTTCTGCTTTTGATGAGAGAAGAAATA  
+HWI-EAS443:3:9:1695:1049#0/1  
¥Va`\_\_¥`\_SDWZW^`¥S\_R`a]Z\_WY][][`^U\_]W\_\_[  
@HWI-EAS443:3:100:159:209#0/1  
GGCGGCATGACTTTGAAAGGGAAGGGTACTCACTGGTCGG  
+HWI-EAS443:3:100:159:209#0/1  
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GACAGACCCATTCAAATTACTCCAAAACAGCCAAGTGGTC  
+HWI-EAS443:3:100:979:1636#0/1  
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+HWI-EAS443:3:15:1253:1561#0/1  
¥\_¥\_[a[bbb^[T[]a\_abb`\_PY`X]aS^ZZ\_WZa[\_a\_  
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+HWI-EAS443:3:16:1599:1378#0/1  
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+HWI-EAS443:3:16:649:1961#0/1  
Q\_bbb[[]]b\_X`abb\_WYS\_[UW]\_YL¥^RY\_Raa^  
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+HWI-EAS443:3:17:1070:163#0/1  
^b`^^`^`^a^a¥`]aa]¥a`[Va`[`]VYU]BBBBBBBB  
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CGTGATCCATTCCGGTGCGAACAAGCGCTCTTGTTCTCTG  
+HWI-EAS443:3:17:329:1634#0/1  
a^NWS¥¥a\_`\_\_Z^[N¥aZVZX\_¥U`[RURO^ZUNZ^NGZ  
@HWI-EAS443:3:19:513:731#0/1  
ACTTGGCTGTTTTGGAGTAATTTGAATGGGTCTATCCAGA  
+HWI-EAS443:3:19:513:731#0/1  
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@HWI-EAS443:3:21:702:1134#0/1  
GGGGCTTTCTGCTTTTGATGAGAGAAGAAATAAATACCTA  
+HWI-EAS443:3:21:702:1134#0/1  
a\_H^aTY`\_`aa[P`a`W`U\_[`^`¥^^^`\_`X\_ZSY]  
@HWI-EAS443:3:23:1075:65#0/1  
AGAGAGGATGGTGCTTTCTGCTTTTGATGAGAGAAGAGAT

+HWI-EAS443:3:23:1075:65#0/1  
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GGTGCCGCAGGTGCTGCGGTGAAAGGAGTTGGAACAAAAG  
+HWI-EAS443:3:23:1129:1519#0/1  
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@HWI-EAS443:3:24:1443:1812#0/1  
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aba^b`bbb`abbaa\_b`b`\_a]a`\_XYaaaa`T^ab]  
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+HWI-EAS443:3:26:653:624#0/1  
abbb\_bab`bab`a`aaaa^V`aa\_\_^aXS\_aa^```\_\_\_\_  
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CAGAGAACAAGAGCGCTTGTTCGCACCGGAATGGATCACA  
+HWI-EAS443:3:2:1240:332#0/1  
a]b]XZ^¥aaaa`Qa[a\_b\_a]a^`ZF\_¥V\_¥a^^ZNHS\_  
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AATTTCTGGAGGGGTGAAAATGGACGAAGGACAAGGGATG  
+HWI-EAS443:3:33:1632:577#0/1  
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CCCCGGGAGATTCTACATCCAAATGTGCACTGAACTCAA  
+HWI-EAS443:3:33:564:939#0/1  
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@HWI-EAS443:3:33:884:1011#0/1  
CACATATCTCAAAGGAAAATTTCAAACAGCTGCCAGAG  
+HWI-EAS443:3:33:884:1011#0/1  
aaaa[MZaaaaaVab\_b\_aaaYT^``\_^a]a^^\_V\_Z\_^`  
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+HWI-EAS443:3:34:1666:2012#0/1  
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@HWI-EAS443:3:34:519:1469#0/1  
GGCCAGCACTCATTCTGAGGGGATCAGTTGCACATAAATC  
+HWI-EAS443:3:34:519:1469#0/1  
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GACATAAGGAGAGTTTGGCGCCAAGCAAACAATGGCGAAG  
+HWI-EAS443:3:36:189:1313#0/1  
\_]I\_0]Z`\_U^`[]¥][\_]`bb¥a\_ZU\_URNZGI[a]V[W  
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GTGGGGGTGAAAATGGACGAAGGACAAGGGTTGCTTATGA  
+HWI-EAS443:3:36:768:261#0/1  
aV\_]`aaVaZ[``aa`a\_\_\_\_]a\_\_V^```[U[^V][RTXY  
@HWI-EAS443:3:40:1191:1816#0/1  
GAGCGCTTGTTCGCACCGGAATGGATCCCAGAATGTGTTC  
+HWI-EAS443:3:40:1191:1816#0/1  
a^RaVMa[a¥PH[YUSURRa`[SIKU¥ab`ULNWPYa\_]\_

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+HWI-EAS443:3:43:1175:1129#0/1  
abbaaaaaaaaaa`baaa`\_a`aaaa`a`GYa\_UQDRY  
@HWI-EAS443:3:44:1570:194#0/1  
GAGTGATTGGTGAATCGGGAGATTCTACATCCAAATGTG  
+HWI-EAS443:3:44:1570:194#0/1  
\_X\_N```a`\_T`¥P¥ZT\_¥ZO`W[WYVWOKXRVTNUUQR  
@HWI-EAS443:3:46:677:1013#0/1  
CAATGATGGATCAAGTAAGAGAAAGTCGAAACCCAGGTGC  
+HWI-EAS443:3:46:677:1013#0/1  
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+HWI-EAS443:3:48:454:1827#0/1  
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+HWI-EAS443:3:49:1502:1257#0/1  
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+HWI-EAS443:3:53:25:1446#0/1  
a`\_bababa`aa`aa\_a`W]a^[a`\_\_XX[¥Q^`\_`\_V¥T  
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ATCCAGAATAGCATAACAATAGAGAGGATGGTGTCTTATG  
+HWI-EAS443:3:56:1152:1254#0/1  
¥\_\_`]P]`b[Z[Y`X^PWZ^Y`V^\_¥PZ[]WRZNV¥WDLJ  
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+HWI-EAS443:3:56:518:882#0/1  
]YZ^\_a¥^bZXTTYb^^a\_YS^I^Q\_abXTaba^]]\_G\_¥  
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+HWI-EAS443:3:59:631:183#0/1  
W¥a`aa\_^aaa[bbbb¥Z¥a^Uaab[b`abaa`\_]S`a\_  
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+HWI-EAS443:3:61:19:803#0/1  
a``aba`bb`aba]^\_aaa[X[\_\_\_TV`a[XV[UX]MUJ]Y  
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GAACACATTCTGGGATCCATTCCGGTGCGAACAAGCGCTC  
+HWI-EAS443:3:63:573:1161#0/1  
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+HWI-EAS443:3:65:133:873#0/1  
ab`bab`Z\_JP\_````]VY`WY]W^[TW[V]W  
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+HWI-EAS443:3:66:378:127#0/1  
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+HWI-EAS443:3:70:854:1109#0/1  
T\_YQ\_V`W\_`Z`^`T`]`b`a^XQWW^[^\_Y]Y\_]X`^`W`  
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+HWI-EAS443:3:71:237:1783#0/1  
\_bb\_`[bab\_bbbabbabab`a`a\_babb`bbbabaaaba  
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GAGCGCTTGTTCGCACCCGAATGGATCCCAGAATGTGTTC  
+HWI-EAS443:3:72:1044:1617#0/1  
[\_bbbbb`\_`bbbb`b[T\_b`bbb\_bba`a`aa]]`a[  
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+HWI-EAS443:3:72:981:1612#0/1  
]TZ]\_]WY`WZ\_ZRDSXTPU`YVT`a`Y`YUWRQQ`UY`SJ  
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+HWI-EAS443:3:78:1020:1033#0/1  
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+HWI-EAS443:3:7:450:1029#0/1  
ab``aaa`aaaaa^a\_a\_a^`\_]``\_aa\_`V`VW^^\_W^  
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+HWI-EAS443:3:81:1136:364#0/1  
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@HWI-EAS443:3:83:593:1752#0/1  
AACGCTGAGATTGAAGACCTCATTTCCTGGCACGGTTAG  
+HWI-EAS443:3:83:593:1752#0/1  
aa\_\_`\_]`\_^\_^\_Z\_\_`]`^`^]\_^Z\_]X SX]] [RXX^\_`



@HWI-EAS443:3:84:730:584#0/1  
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+HWI-EAS443:3:84:730:584#0/1  
aWDYaYU]QXZWW`\_a\_W^P]X`VX^`\_\_\_\_\_`¥\_W\_\_\_\_  
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+HWI-EAS443:3:85:1692:1556#0/1  
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+HWI-EAS443:3:8:853:1250#0/1  
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+HWI-EAS443:3:91:420:779#0/1  
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GACGGTCTCCTGTTTTCTTAGGGTCTTCCCAGCACTG  
+HWI-EAS443:3:91:460:940#0/1  
aba]aaXX^`^a\_a^Q\_\_¥\_V`\_X]¥\_\_¥\_\_^¥UX^VVV^  
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+HWI-EAS443:3:93:450:1313#0/1  
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+HWI-EAS443:3:94:390:1515#0/1  
\_`L[WUZ¥`^ba]bY`^aa^Taaa]\_`a`^a`aaa`a]ab  
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+HWI-EAS443:3:9:1416:928#0/1  
a\_a`a`^aa\_a\_a^a\_X`\_\_Za^¥]U\_]W\_]¥a`¥\_`^\_Q  
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+HWI-EAS443:3:11:668:1400#0/1  
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+HWI-EAS443:3:11:804:126#0/1  
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+HWI-EAS443:3:13:1526:420#0/1  
abbaa`a`aaa`a`\_`aa`aba¥D]`^aaaaa¥Zaa\_`^`\_  
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TGGGCATGACTNTGAAAGGGAAGGTACTIONACTGGTCGGG  
+HWI-EAS443:3:14:1173:267#0/1  
a[\_[`^`\_\_^VDZa\_YZ\_¥aW¥``\_Q¥¥Z[TZ¥\_¥W¥^¥^  
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+HWI-EAS443:3:14:921:367#0/1  
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+HWI-EAS443:3:20:1630:1767#0/1  
Zab`Z`bRa``babbb`YDY`Yba\_aa`aaa[X[`\_[[\_  
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+HWI-EAS443:3:22:76:891#0/1  
a`\_bbaabb`[`abb]D¥ab`aaaa`aa`aaaaaa``b  
@HWI-EAS443:3:25:630:534#0/1  
TAACAATAGAGAGGATGGTGCTTTCTGCTTNTGATGAGAG  
+HWI-EAS443:3:25:630:534#0/1  
abb`aababaaabaaaa\_W\_[]aa\_a`Ua^D^a\_aa\_`]  
@HWI-EAS443:3:25:896:1712#0/1  
CTGCTGTTGCATNTTCGCCATTGTTTGCTTGGCGCCAAAC  
+HWI-EAS443:3:25:896:1712#0/1  
`\_ba```[¥`^D^`^aa`\_b`aaa]\_\_\_\_^```^G^ba  
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GGCTTGCAGTAGCAAGTGGGNATGACTTTGAAAGGGAAGG  
+HWI-EAS443:3:26:1372:1437#0/1  
a\_a`a`aV`a`\_aU^\_WDV^a¥\_W```¥¥^```\_¥¥¥  
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+HWI-EAS443:3:29:1140:1268#0/1  
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+HWI-EAS443:3:30:1792:350#0/1  
a^`b`¥¥aabbbbaabb`bVbb``W]^`^abbbabJDZa¥a  
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+HWI-EAS443:3:33:1587:301#0/1  
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+HWI-EAS443:3:35:494:834#0/1  
a]X\_``Ua\_a`\_\_X0]V`Z¥`\_`^QUDW\_X^`RNUX]]XX

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a¥¥\_]^\`UYZZ^SDLUZ^TVZTTQ[GOT[[RWUNY¥RQQP  
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+HWI-EAS443:3:40:1328:1334#0/1  
aababbbabb^aab]aS^L\_a\_aaYXUDVa\_J\_a`Z^[bZ  
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GAAAGAATGTGCAATATCCTCAAAGGAAAATNTCAAACAG  
+HWI-EAS443:3:40:1402:1012#0/1  
aa^a^`aa`Y¥QZ```a`Z``\_`¥QO\_W^WD[]^Z^X¥Y  
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+HWI-EAS443:3:40:596:880#0/1  
\_b^`a\_¥\_b]`\_aab¥abaaaaW\_¥`V\_UYVD¥V[0]YQO  
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+HWI-EAS443:3:45:1551:1269#0/1  
aa`a^bababaaba`baNY^\_aa`a[¥``aa\_\_YDF\_X^[  
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+HWI-EAS443:3:46:940:256#0/1  
a`KDX`¥]¥\_Z\_`aa`a`^a]a]\_a[\_`\_^\_\_\_YT[`  
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GTTCAGTGCACATNTGGATGTAGAATCTCCCGATTCCACC  
+HWI-EAS443:3:47:251:212#0/1  
aaba^b\_baaaa^D^`aaaa]`aa`aV\_Z^\_aV¥\_R[¥PW  
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+HWI-EAS443:3:49:1725:875#0/1  
VZZXY[¥aV[b\_aba\_aSNSY]ZDDLp^Z\_a^aa[HU]  
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+HWI-EAS443:3:4:1308:200#0/1  
aa\_]`^aaaa^¥X\_```b[\_a\_a\_`¥DEZ]`W\_`\_]V]  
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+HWI-EAS443:3:50:1085:1274#0/1  
\_Z\_¥]¥D¥`YL]WVXQ`\_ZG\_R]Y[^a¥WN[¥Y¥\_]\_]Y  
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+HWI-EAS443:3:53:412:815#0/1  
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+HWI-EAS443:3:54:1135:1303#0/1  
]\_\_aabbbba[\_`YY]\_]\_\_a\_aaUDZaaY\_aa`a^aa\_  
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+HWI-EAS443:3:55:1545:172#0/1  
U`a[\_`¥`[D]a`Z`^ab`a`^`\_X[¥`a\_X`[VZa  
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GCTTTCTGCTTTTGATGAGAGAAGAAATAAATNCCTAGAA  
+HWI-EAS443:3:57:1656:964#0/1  
a^aa][ab\_bbaa]^aa`[a`\_`a\_\_aa\_a[DKWaaa\_\_  
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+HWI-EAS443:3:59:1052:322#0/1  
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GACGAAGGACAANGGTTGCTTATGAAAGAATGTGCAATAT  
+HWI-EAS443:3:59:1323:333#0/1  
aa`a`aa\_\_aXD^a^aaZ\_a\_aa^\_aa`a`XX`WWW\_^]  
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+HWI-EAS443:3:62:705:831#0/1  
\_`ZD¥[Z`\_a^^]^`a\_P`Z]^`\_V\_ZP[SOX]X\_¥WR^`[  
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+HWI-EAS443:3:64:696:1434#0/1  
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abb\_bbbababbb`¥D[bba`ab¥bba`\_`a\_aaaa`aY]a  
@HWI-EAS443:3:68:1297:392#0/1  
GCAGGTGCTGCGGTGAAAGGAGTTGGAACANTAGCAATGG  
+HWI-EAS443:3:68:1297:392#0/1  
`ab`¥b`aa`aaYa[]\_\_a[^`a`aX\_[WDW¥ZYZZ¥\_\_  
@HWI-EAS443:3:69:1506:525#0/1  
TCCAAATGTGCACTGAACTCAAACCTCAGTGATTATNATGG  
+HWI-EAS443:3:69:1506:525#0/1  
aaaaabab`ba\_[`aaa`a\_a]a\_a`\_`a^a^aaZDT^a]  
@HWI-EAS443:3:69:718:626#0/1  
ATGAGAGAAGAAATAAANACCTAGAAGAGCATCCCAGTGC  
+HWI-EAS443:3:69:718:626#0/1  
aab]aWTQVbS\_^YZRD^a^a`TV¥Y`WT^Y`aU[¥U\_a  
@HWI-EAS443:3:6:282:1103#0/1  
GATGGTGCTTTCTGCTTTTGATNAGAGAAGAAATAAATAC  
+HWI-EAS443:3:6:282:1103#0/1  
aa^aZ[aaa`a`]^`aaaa`^VDW]]^a`^`\_\_\_\_a\_a^\_X

@HWI-EAS443:3:70:1402:363#0/1  
ATAACAATAGAGAGGATGGTGCTTTNTGCTTTTGATGAGA  
+HWI-EAS443:3:70:1402:363#0/1  
a\_a\_a`\_a\_a[b¥b^a^ba]a`a]TDZa0``a`\_Z^`X\_X  
@HWI-EAS443:3:72:1221:1023#0/1  
CCTGGGTTTCGACTTTCTTACTTGATCCATCNTTGCCC  
+HWI-EAS443:3:72:1221:1023#0/1  
aabbUaTaSU\_XXSaa\_X]^^[¥NZYWaBBBBBBBBBBBB  
@HWI-EAS443:3:73:1175:1336#0/1  
GCGCCAAGNAAACAATGGCGAAGATGCAACAGCAGGTCTT  
+HWI-EAS443:3:73:1175:1336#0/1  
aaaaaa\_ZD[`]^aa[R`Z^[]`XT^\_[a^`P^ZUSVW^^  
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AGGGTTGCTTNTGAAAGAATGTGCAATATCCTCAAAGGAA  
+HWI-EAS443:3:73:808:1177#0/1  
ab``aabbb]D^bababa]bbaaabababaaabba`aaaa  
@HWI-EAS443:3:75:937:1387#0/1  
CGAAACCCAGGAAACGCTGANATTGAAGACCTCATTTTCC  
+HWI-EAS443:3:75:937:1387#0/1  
aababbbbbbbbbbabab^D[babbabab`bbbbabb`b  
@HWI-EAS443:3:76:1594:1433#0/1  
CATGACTTTGAAAGGGAAGGTNCTCACTGGTCGGGATAG  
+HWI-EAS443:3:76:1594:1433#0/1  
a^^````ab`[a``Zaaaa¥KDVa\_aa\_]aWaa`R]\_\_  
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CAACACTTCCCAGAAGGTCTGGNGCCGCAGGTGCTGCGGT  
+HWI-EAS443:3:76:1704:1580#0/1  
abba^ab`^b`ab]\_^a\_aba¥DZa``a``Pbaab``^U  
@HWI-EAS443:3:76:472:1038#0/1  
CCTGCTGTTGCATCTTCGCCATTGTTTGCTTGNCGCCAAA  
+HWI-EAS443:3:76:472:1038#0/1  
abbbbbbb`a`aW`aaabaaa]aa`\_aa[a`\_UDPZ\_\_WWS  
@HWI-EAS443:3:77:769:1709#0/1  
CTAATCNAGAATAGCATAACAATAGAGAGGATGGTGCTTT  
+HWI-EAS443:3:77:769:1709#0/1  
a^^^^]D^abaaaaaaaa]aaa[aYa\_a\_`^`H`YUX`  
@HWI-EAS443:3:79:1294:1122#0/1  
GTGCACATTTGGATGTAGAATCNCCCGATTCCACCAATCA  
+HWI-EAS443:3:79:1294:1122#0/1  
¥Za¥``bbb`¥^`Z¥Z]¥\_\_a^DP¥a`P`a]``WZ`Y`\_\_  
@HWI-EAS443:3:79:1352:517#0/1  
GTTTTGGAGTAATTTGAANGGTCTATCCCGACCAGTGAG  
+HWI-EAS443:3:79:1352:517#0/1  
aabaab[ab\_aX`aaaa^D^`]SW\_a``\_\_a`aGa`^\_[`  
@HWI-EAS443:3:80:1266:1753#0/1  
GCAGAAANCACCATCCTCTCTATTGTTATGCTATTCTGGA  
+HWI-EAS443:3:80:1266:1753#0/1  
a``¥`aYD¥a[a``XXa^`^a``[[^\_\_a\_U^[^\_]]¥^¥  
@HWI-EAS443:3:81:1042:1023#0/1  
CTGAACTCAAACCTCAGTGANTATGATGGACGACTAATCCA

+HWI-EAS443:3:81:1042:1023#0/1  
\_`¥]Z`\_a`[¥`^`^[\_aWD]a[a]aa\_P^¥`aa`\_\_N]a  
@HWI-EAS443:3:8:1212:1519#0/1  
GAATGTGCAATATCNTCAAAGGAAAATTTCAAACAGCTGC  
+HWI-EAS443:3:8:1212:1519#0/1  
X¥b\_bYabbbbb]DZabb`bbbbbaaab`aaa`aaaaa¥  
@HWI-EAS443:3:8:1694:1202#0/1  
TAACAATAGAGAGGATGGTGCNTTCTGCTTTTGATGAGAG  
+HWI-EAS443:3:8:1694:1202#0/1  
aaa``aba\_\_b^aa`^Y][aODY\_W[\_Y\_^a`\_U]^Y^P^  
@HWI-EAS443:3:92:1336:1233#0/1  
GTGCAATATCCTCAAAGGAAAATTTCAACAGCTGCCAG  
+HWI-EAS443:3:92:1336:1233#0/1  
a`aababa`\_\_a\_]aaaaaa\_baaVD¥a``a[```^0^V  
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ACGACTAATCCAGAATAGCATNACAATAGAGAGGATGGTG  
+HWI-EAS443:3:92:980:643#0/1  
abbaba`aa^`bb`a`a``^D¥`a`aaa\_a`aa`a`[R`  
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ATGGTCTTTCTGCTTTTATGAGAGAAGAAATAAATACC  
+HWI-EAS443:3:94:503:1837#0/1  
aa`\_W`baaa^a`\_ba\_PDT`\_`a`a^`\_aaa`aaa\_aa0  
@HWI-EAS443:3:98:626:462#0/1  
CACTTCCCAGAAGGTCTGGTGCCGCGGGTCTGCGGTGAA  
+HWI-EAS443:3:98:626:462#0/1  
aaaa`a`]`a``aa¥\_aaa]a^``YD[aZa^¥`¥aaR`VZ  
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+HWI-EAS443:3:98:761:1796#0/1  
abYS¥baa`aRY`\_]`\_]\_a]¥]abaXRD]^`[Z^\_a^\_a  
@HWI-EAS443:3:11:608:654#0/1  
TAACAATAGAGAGGATGGTCTTTCTGCTTTTGATGAGGG  
+HWI-EAS443:3:11:608:654#0/1  
`a`\_a¥`U¥a]RVaaZa^M[N]aa`[^JU\_aaVLSUNIQa  
@HWI-EAS443:3:12:917:1428#0/1  
GCGCTTTCTGCTTTTGATGAGAGAAGAAATAAATACCTAG  
+HWI-EAS443:3:12:917:1428#0/1  
^F¥]XYX^]`¥\_^\_]RW\_a]aU\_UX^XX^X^`¥\_aS\_Q\_^^  
@HWI-EAS443:3:14:303:2029#0/1  
ACGGGCTTGCAAGTGGGCATGACTTTGAAAGGGA  
+HWI-EAS443:3:14:303:2029#0/1  
a`W[`aWZ]Va\_WaZTW\_[S^¥¥`\_ZZ[NW^`Y^`\_¥¥¥\_  
@HWI-EAS443:3:17:145:1947#0/1  
GCGTTCAGTGCACATTTGGATGTAGAATCTCCCGATTCCA  
+HWI-EAS443:3:17:145:1947#0/1  
^K\_Q¥`S]ZU`aa¥^]HYa\_[Z^ZZ\_Z][ ]\_^THYX\_]`  
@HWI-EAS443:3:17:169:1091#0/1  
TGGGGATCCATTCCGGTGCGAACAAGCGCTCTTGTCTCT  
+HWI-EAS443:3:17:169:1091#0/1  
a`X\_S\_^a`a]`\_\_a\_[^`\_^¥```¥¥\_\_¥¥\_ZBBBBBBB

@HWI-EAS443:3:17:356:1882#0/1  
AATTACTCCAAAACAGCCAAGTGGTCAGCCTGATGAGAGC  
+HWI-EAS443:3:17:356:1882#0/1  
a^^^QW^]YV[GQ`X\_YT\_^ZWO^RaBBBBBBBBBBBBBB  
@HWI-EAS443:3:18:228:1379#0/1  
CGGGCAGGCAGGATTTATGTGCAACTGATCCCCTCAGAAT  
+HWI-EAS443:3:18:228:1379#0/1  
a`\_]\_\_]]S\_¥Y]OJM[LMYGX^]a^KZQNLXX[SS]X^R^  
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+HWI-EAS443:3:21:1582:413#0/1  
¥TW]TPDPQ`KPN¥VPQM\_MNBBBBBBBBBBBBBBBBBB  
@HWI-EAS443:3:21:214:1893#0/1  
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+HWI-EAS443:3:21:214:1893#0/1  
[\_`baa`a`\_`\_a\_a`^^`\_W][V^]¥a¥^a`\_aZ^`^  
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GGTTTCTGCTTTTGATGAGAGAAGAAATAAATACCTAGAA  
+HWI-EAS443:3:21:369:1981#0/1  
a\_N]`b¥`aaa`\_V[^^^aa`aaaaaaaaa^aZ^`a`\_`  
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+HWI-EAS443:3:22:853:1586#0/1  
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CNAATCCAGAATAGCATAACAATAGAGAGGATGGTGCTTT  
+HWI-EAS443:3:23:1095:99#0/1  
YD^abbabbaababaabbaa\_\_babab`bb`^aaZaS\_aa  
@HWI-EAS443:3:24:799:1236#0/1  
GCTGCTTATGAAAGAATGTGCAATATCCTCAAAGGAAAAT  
+HWI-EAS443:3:24:799:1236#0/1  
`baabbbabbab`aabbaabaabaabaabaabaabbbbaa  
@HWI-EAS443:3:27:1232:2020#0/1  
CATAATCACTGAGTTTGAGTTCAGTGACATTTGGATGNA  
+HWI-EAS443:3:27:1232:2020#0/1  
a`\_aa`aa`a\_a\_a`a`aa`a`\_Xaa`\_aa^`^^^XDX  
@HWI-EAS443:3:29:1399:446#0/1  
AACACATTCTGGGATCCATTCCGGTGCGAACAAGCGCTCT  
+HWI-EAS443:3:29:1399:446#0/1  
^R]aaabaaabaa^SXZaaa`[a\_^a`Y¥Y`^`X]¥]T\_  
@HWI-EAS443:3:2:185:1761#0/1  
GCGCGAACAAGCGCTCTTGTCTCTGATATGTGGCATCAT  
+HWI-EAS443:3:2:185:1761#0/1  
aH[P`Y\_\_`\_T\_\_X\_]HX^U\_^`[V¥X[S^\_H^UG]B  
@HWI-EAS443:3:2:673:173#0/1  
CCGGGATCCATTCCGGTGCGAACAAGCGCTCTTGTCTCT  
+HWI-EAS443:3:2:673:173#0/1  
a\_abb¥]\_]^`¥a`^U¥V][YPY¥]PZSUPSU¥WSWSBB  
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GTGGTCCTCCTGTTTTCTTAGGGTCCTTCCCAGCACTGGG

+HWI-EAS443:3:30:1230:1204#0/1  
¥YbaT]ba¥[[[]baabZ\_\_\_\_][F^X`L`a`TV]]¥aa[a  
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CAGCATCTTCGCCATTGTTTGCTTGGCGCCAAACTCTCCT  
+HWI-EAS443:3:30:210:1319#0/1  
aaaba\_a`aa^ab`aa[\_a`^b``\_Zb¥aaa`Xa\_a\_a]\_  
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+HWI-EAS443:3:31:1375:366#0/1  
abbX^a`abaaaaa[`a`aa\_a`[^[a\_]a\_a`^¥Z^aZ^  
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GCGAGTGCTGACCGTGCCAGGAAAATGAGGTCTTCAATCT  
+HWI-EAS443:3:32:1410:568#0/1  
abaaa[baaaaa\_^ZSTQXaa¥`^Z[M[Y[VV¥¥^ZX`¥\_  
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CCGGGAGCGCCAGGATGCCACAGAAATCAGAGCATCTGT  
+HWI-EAS443:3:32:398:1420#0/1  
ab]a`a`b`aa¥[\_^¥]\_aa`a]\_`^`a]\_Y^^^\_W¥S  
@HWI-EAS443:3:33:1253:1054#0/1  
GGGCTGGGTTTTTCATTTGGTCTCATCAGGCTGACCACTTG  
+HWI-EAS443:3:33:1253:1054#0/1  
ZX\_\_^aa`\_bbb][``]Z^V[R^`\_aaa`\_Z]TYQWY`^F  
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AGGATGCCACATATCAGAGAACAAGAGCGCTTGTTCGCAC  
+HWI-EAS443:3:33:1638:857#0/1  
]HXQ][WVTY\_^]STaZZZ[[aR]SZaaZYLDMTSXW\_Q  
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+HWI-EAS443:3:33:170:993#0/1  
`bbTF\_a`aa`\_`a[abaaaW[Qaaa]\_aULTU\_¥\_Za^  
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GAATTAGTCGTCCATCATAATCACTGAGTTTGAGTTCAGT  
+HWI-EAS443:3:34:1104:1134#0/1  
aaa`X¥aaaaaa[¥`\_a^^^aaY[Y\_Y]Uaa^U^V^NQRN  
@HWI-EAS443:3:34:1599:2036#0/1  
GCTGAGAGAAGAAATAAATACCTAGAAGAGCATCCCAGTG  
+HWI-EAS443:3:34:1599:2036#0/1  
a`a\_Va\_S[aW^`\_]^\_]^]T[Y^X]¥¥XVVYUUNWWBB  
@HWI-EAS443:3:34:632:1343#0/1  
ATAGCATCCCAGTGCTGGGAAGACCCTAAGAAAACAGGA  
+HWI-EAS443:3:34:632:1343#0/1  
aaZ]a`aaaaa[\_``\_\_\_a`¥¥`¥]\_\_`][`¥`^¥¥^Y¥  
@HWI-EAS443:3:35:979:576#0/1  
GTTCCAACCTTTTACCAGCAGCACCTGCGGCACCAGAAC  
+HWI-EAS443:3:35:979:576#0/1  
`]a^Y¥¥]`X\_\_^V\_]`XWU\_a\_XYVY]YTMWV¥BBBBBB  
@HWI-EAS443:3:37:514:84#0/1  
GACTAATCCAGAATAGCATAACAATAGAGAGGATGGTGGT  
+HWI-EAS443:3:37:514:84#0/1  
a\_a``¥a``]aa`^`^`\_`WX`a`]¥aO\_¥WW``]ZDH



@HWI-EAS443:3:42:1782:780#0/1  
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+HWI-EAS443:3:42:1782:780#0/1  
abba^`abaa\_¥]aaa\_`ba^aa^`abaaa^^Y]\_\_^]a^  
@HWI-EAS443:3:44:1462:945#0/1  
TGCTGCTGTTGCATCTTCGCCATTGTTTGCTTGGCGCCAA  
+HWI-EAS443:3:44:1462:945#0/1  
a^abbabb]`\_]\_\_^aa]`^`¥¥a]`a^HY\_\_H¥Y]YWSV  
@HWI-EAS443:3:46:847:1498#0/1  
TCGGGTCCTCCTGTTTTCTTAGGGTCCTTCCCAGCACTGG  
+HWI-EAS443:3:46:847:1498#0/1  
aa^a`RaaaaYa`aab`aa¥]W\_¥a\_```[\_a[^^]`\_\_  
@HWI-EAS443:3:4:1169:88#0/1  
TGCAACAGCAGGTCTTACTCATATCATGATTTGGCATTAC  
+HWI-EAS443:3:4:1169:88#0/1  
¥a¥`aa\_¥`\_baaab]V¥\_ZQa^G[\_aJZIXGZabT^HG  
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ACCCCGACCAGTGAGTACCCTTCCCTTTCAAAGTCATGCC  
+HWI-EAS443:3:4:1203:1910#0/1  
a`[\_¥^b^^aa¥Z^aW\_PP^a¥WS¥a\_\_Y]^SUSW¥¥UWU  
@HWI-EAS443:3:4:83:1099#0/1  
AACACATTCTGGGATCCATTCCGGTGCGAACAAGCGCTCT  
+HWI-EAS443:3:4:83:1099#0/1  
ababa\_aabaaaaa\_`a`\_\_`aa^````aa\_\_\_\_V\_\_\_\_U`  
@HWI-EAS443:3:54:1252:1856#0/1  
TTTGGATGTAGAATCTCCCGATTCCACCAATCATTCTTAC  
+HWI-EAS443:3:54:1252:1856#0/1  
\_bbZbbb[UI\_a]a^\_XY¥aab]UY`S\_a\_UL`JODK[G¥  
@HWI-EAS443:3:5:1378:1494#0/1  
GACCTCTCTATTGTTATGCTATTCTGGATTAGTCGCCAT  
+HWI-EAS443:3:5:1378:1494#0/1  
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CCTCTGGGCAGCTGTTTCAAATTTTCCTTTGAGGATATNG  
+HWI-EAS443:3:5:993:172#0/1  
aab`b`b`\_`abbbbbbb\_bbbbab\_`bbb`bbaaab^DY  
@HWI-EAS443:3:60:1295:1158#0/1  
GGGGAAGGGTACTCACTGGTCGGGATAGACCCATTCAAAC  
+HWI-EAS443:3:60:1295:1158#0/1  
a^`a\_aa`Za\_`\_`\_`a`W^a\_\_¥¥```\_V`^^^U¥¥\_W  
@HWI-EAS443:3:61:1020:1698#0/1  
CACCTTCCCAGCACTGGGATGCTCTTCTAGGTATTTATTT  
+HWI-EAS443:3:61:1020:1698#0/1  
aaabbbbbabbbaa\_`[\_Zaaabaaaa`a\_[QG^^aSW¥V]  
@HWI-EAS443:3:62:1137:769#0/1  
TTTATGTGCAACTGATCCCCTCAGAATGAGTGCTGACCCA  
+HWI-EAS443:3:62:1137:769#0/1  
abbb`b\_aaaaa`bba`aaaaaa`^a`aaZaa`]b\_aaa  
@HWI-EAS443:3:63:318:615#0/1  
AACACATTCTGGGATCCATTCCGGTGCGAACAAGCGCTCT

+HWI-EAS443:3:63:318:615#0/1  
aaaba` [ [ ` a ` baaaa\_T\_aa ` ` Xaaa\_¥WZZ^` [\_\_YY  
@HWI-EAS443:3:64:1534:1004#0/1  
TTGCAGTAGCAAGTGGGCATGACTTTGAAAGGGAAGGGCA  
+HWI-EAS443:3:64:1534:1004#0/1  
aaaaaaba` \_ ` \_ ` ] aV\_\_a` \_a` aa^^Z\_\_a\_\_aYVFZ  
@HWI-EAS443:3:65:1212:943#0/1  
GCGGTTGCTTATGAAAGAATGTGCAATATCCTCAAAGGAA  
+HWI-EAS443:3:65:1212:943#0/1  
aa\_\_\_\_\_ ` ] ^ [ ^ ¥ LW ` a ` [ ZTLYOQ¥U ` ] SLL [ SPW ` X ¥ U  
@HWI-EAS443:3:65:900:187#0/1  
GTGCTTTCTGCTTTTGATGAGAGAAGAAATAAATACCTGG  
+HWI-EAS443:3:65:900:187#0/1  
a ` b ` aa^aaa\_aaaaa\_ ` a ] ` ] a\_\_a` \_ ` ` ` \_ ` \_ ^ T ^ GZ  
@HWI-EAS443:3:67:242:1561#0/1  
AGCCCTTGCTTCCTCGTCCATTTTCACCCCTCCAGAAATTT  
+HWI-EAS443:3:67:242:1561#0/1  
\_X ` ` \_ V ¥ a ¥ \_X\_abZQabaaa [ ¥ aa\_X\_ ` ^ ` baa ¥ a ` \_\_\_\_\_  
@HWI-EAS443:3:68:977:1860#0/1  
TATGAGTAAGACCTGCTGTTGCATCTTCGCCATTGTTTTTC  
+HWI-EAS443:3:68:977:1860#0/1  
[a\_[\_b`bbaaaa^aa\_Y^¥]XZ\_a`ZG[\_GLWTKW^GX  
@HWI-EAS443:3:69:429:728#0/1  
GTTGCTGCGGTGAAAGGAGTTGGAACAATAGCAATGGAGT  
+HWI-EAS443:3:69:429:728#0/1  
a^\_aa\_ ` \_ ` ¥ V V U \_ ¥ W W Z [ V ^ ] Z U ^ N R Y Z W S V N U ] \_ Y O Z L  
@HWI-EAS443:3:69:665:468#0/1  
GCTTGCAGTAGCAAGTGGGCATGACTTTGAAAGGGAAGAC  
+HWI-EAS443:3:69:665:468#0/1  
ab ` a ` bbb ` bbaa ] ` \_ a ` baaaa ` aaaaaa\_Va^a^a [   
@HWI-EAS443:3:70:106:297#0/1  
CGCTTCGCCATTGTTTGCTTGGCGCCAAACTCTCCTTATT  
+HWI-EAS443:3:70:106:297#0/1  
abbbbaabbb\_aab ` a ` bbaa ] abaa\_U ` \_ a ] ¥ V ` \_ ¥ \_ aa  
@HWI-EAS443:3:70:1181:362#0/1  
GCGGGGAGCGCCAGGATGCCACAGAAATCAGAGCATCTGT  
+HWI-EAS443:3:70:1181:362#0/1  
^E]W]Z¥ ` ^aZP]\_ ` TU ` ] ] X [ a ^ ¥ ¥ ¥ ^ S ] PPWENVUS ¥ S  
@HWI-EAS443:3:73:1084:557#0/1  
GGGGGGTAAAAATGGACGAAGGACAAGGGTTGCTTATGAA  
+HWI-EAS443:3:73:1084:557#0/1  
abbb\_b¥baa ` abaaa\_a\_aaa ` ` aaaaa ¥ \_ a \_ ` a ` ` ` ^ \_  
@HWI-EAS443:3:74:769:1255#0/1  
TGGGAGGGGTGAAAATGGACGAAGGACAAGGGTTGCTTAT  
+HWI-EAS443:3:74:769:1255#0/1  
ab^[\_bbbaW ` \_aVb]\_\_aX¥] ` ¥ Wa ` a \_ ` ` aG]aZ\_a\_ `   
@HWI-EAS443:3:75:1016:367#0/1  
TCTGGTCTCCTGTTTTCTTAGGGTCTTCCCAGCACTG  
+HWI-EAS443:3:75:1016:367#0/1  
aabbbbXaaaaaba ` bbbbaa\_ab^^ [ a ` aa^ ` \_ ` a ` a^\_a

@HWI-EAS443:3:75:1524:434#0/1  
CTGAACTCAAACCTCAGTGATTATGATGGACGACTAATCAA  
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+HWI-EAS443:3:11:1374:239#0/1  
]a\_\_^]]`^]baa`^a^bV`RZ`\_Ua][aa`a¥^Z^^`¥¥  
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a`[Z\_FWa`a\_LZaQY[^aaaaa¥a`^a`\_`a`aU]\_\_SR[  
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aaa`^aaaa`aa]a```aaX]aa^aaa`]^`¥``````^`  
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+HWI-EAS443:3:40:49:194#0/1  
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ab^a^¥ba0\_][^`X`YYZPS0^`]\_ab`^W¥a]V^[U[[  
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I]¥T`^S\_aa`S``^`a`b^`\_[[¥\_a`^`[ZbbZba`]  
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aa^\_\_Z`¥a```\_a``¥U\_a¥\_`^X^T^¥`¥`¥^¥^W¥^^  
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a`\_XZ`^ba`\_aZaa]]b\_\_QTY[a\_^^`^\_\_a]W]Z¥\_^  
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AGCTGTTGCATCTTCGCCATTGTTTGCTTGGCGCCAAACT  
+HWI-EAS443:3:97:422:1304#0/1  
abb^^`UZ\_`aa¥Y]^\_a[]]V[adW]¥\_X^YYYa^^[UK  
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+HWI-EAS443:3:98:1451:1287#0/1  
a\_Jbabbbb\_^bbTTbabaabaGba`aGbaa\_`a]SX[B  
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+HWI-EAS443:3:99:793:1265#0/1  
aaaaab\_abaaaaaaaaaaaaabaaaa`^\_aaa[]a\_^^`a  
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+HWI-EAS443:3:9:1060:207#0/1  
aaaa`]bbb^`ba`aabaa^a][U`]^`\_\_`[\_GZ[^`  
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+HWI-EAS443:3:100:1017:1091#0/1  
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+HWI-EAS443:3:100:1032:1493#0/1  
ab^bbaabba`b`\_`aabaabaabbababbbbaI`abB  
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+HWI-EAS443:3:100:1197:1239#0/1  
^a`^]a\_b`]b`b]aaaaba^¥]a`]ba`aba]aYaaaaa  
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+HWI-EAS443:3:100:1232:323#0/1  
a\_aT^X`a¥[S[S\_\_MDP¥YZZ\_¥^¥N]VW¥WQU^BBBBB  
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+HWI-EAS443:3:100:1262:926#0/1  
]Y`\_H^bb`bb`ab`bbbaZ`ba[aaX\_Z`babbbba]UaB  
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+HWI-EAS443:3:100:1273:1072#0/1  
]\_¥ab¥¥VbbZa`aa\_a]a]ZZV¥N¥`aa`a`a\_\_]]B  
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+HWI-EAS443:3:100:1303:648#0/1  
aba`aaXaaa^\_aaaaabaa^a\_b`a\_\_[a¥NY\_^Qa]``  
@HWI-EAS443:3:100:1563:45#0/1  
GGATGGTGCTTTCTGCTTTTGATGAGAGAAGAAATAAATA  
+HWI-EAS443:3:100:1563:45#0/1  
`b^`a`\_a`abaWaa¥aabaa\_aa^a^a]\_\_\_\_\_a[\_\_a`



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aaa`T]Ya[G^b`aba¥`aa[¥a]^]a\_Y^¥SaM^¥`^B  
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+HWI-EAS443:3:100:338:572#0/1  
aab\_aaaaabbY\_abb^abbb`bbbbba^`bbbb[a\_a\_  
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TCAACACTTCCCAGAAGGTCTGGTGCCGCAGGTGCTGCGG  
+HWI-EAS443:3:100:417:1017#0/1  
\_a\_XR`\_`\_Z]]a¥`\_\_\_¥^`\_XX]\_````\_¥JYR[`^BB  
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CTGCTGTTGCATCTTCGCCATTGTTTGCTTGCGCCAAAC  
+HWI-EAS443:3:100:533:478#0/1  
abba\_baa^R^b^`aab¥\_P\_]ab`b\_]¥`a\_[MT\_\_\_V  
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AGTGAGTACCCTTCCCTTTCAAAGTCATGCCCACTTGCTA  
+HWI-EAS443:3:100:638:1667#0/1  
`U[`\_\_\_`^a\_a\_XZ`a\_Y\_a`aZ\_a\_¥\_\_N\_aKZ\_\_^B  
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¥`b`b¥YX\_Ub\_abba`bb]]baa`ZZa)`bY`¥PU^\_aB  
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ATTAGTCGTCCATCATAATCACTGAGTTTGAGTTCAGTGC  
+HWI-EAS443:3:100:735:1036#0/1  
a^aa\_U[b^\_\_a\_\_\_[a`S[aa]a^a\_a)`]\_`^^Z\_^  
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+HWI-EAS443:3:100:751:1069#0/1  
\_bababba\_abab]¥aabab^`abaaaaaaa`a\_a\_WY  
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+HWI-EAS443:3:100:811:1075#0/1  
a\_aabSa]\_aVaa[UaaW`^[a\_\_aZYa\_Y^Ra\_aZaVX\_  
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+HWI-EAS443:3:100:95:816#0/1  
\_U\_bbaa\_[bab`^a`a````aY\_`[`a\_a`aa`a`aa`]  
@HWI-EAS443:3:10:1031:165#0/1  
TGTTGCATCTTCGCCATTGTTTGCTTGCGCCAAACTCTC  
+HWI-EAS443:3:10:1031:165#0/1  
a]]\_]\_Ya`aZ¥¥RY[a^Y]\_¥^UW]¥ZW[XWVPSUTKTT  
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ATCATAATCACTGAGTTTGAGTTCAGTGCACATTTGGATG  
+HWI-EAS443:3:10:1107:130#0/1  
aaaaaaaa`^aa\_a^a`\_`^\_\_^`^`V^]`^`^`\_W[Z]  
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+HWI-EAS443:3:10:1125:1922#0/1  
abba\_b`^[a^`]baaabaaaY\_ab\_ab\_QXa`aUaa``\_  
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+HWI-EAS443:3:10:1137:1275#0/1  
a`\_`¥\_]\_\_^\_[F[¥WU[[\_]TYZ]^ZX]VW[^ZW¥ZZX  
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CACACAAGCAGGCAGGCAGGATTTATGTGCAACTGATCCC  
+HWI-EAS443:3:10:1144:1031#0/1  
Tabbbbbbbab`babbbbbbb`abbb\_\_Wa\_Y\_W`\_a[]Z`  
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+HWI-EAS443:3:10:1146:1409#0/1  
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+HWI-EAS443:3:10:122:2030#0/1  
a`SR`a\_`a\_¥]\_^\_\_¥\_]^^^QYVZG`]V]^\_^V[UW]  
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GCTGCGGTGAAAGGAGTTGGAACAATAGCAATGGAGTTAA  
+HWI-EAS443:3:10:1256:1255#0/1  
`\_a\_^`aUaPMT^\_X\_X`]UUZZ¥]ZZSVOZVWWPHPUX  
@HWI-EAS443:3:10:1269:1833#0/1  
TGGACGACTAATCCAGAATAGCATAACAATAGAGAGGATG  
+HWI-EAS443:3:10:1269:1833#0/1  
X]^YS^^YP¥[QYZ\_aTXVWT]UZ\_\_\_^SZ\_\_\_^Y^\_¥U]  
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+HWI-EAS443:3:10:1301:1456#0/1  
ab^XO\_aRa\_aaYZ]]``[a`WZ¥a[\_aHHV`a¥ZT[Q`U  
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ATCCAGAATAGCATAACAATAGAGAGGATGGTGCTTTCTG  
+HWI-EAS443:3:10:1538:375#0/1  
`^^`^^``[\_a`\_a`Z¥^\_^^[`Za`]¥\_^WXTR^VMVS  
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GATGGTGCTTTCTGCTTTTGATGAGAGAAGAAATAAATAC  
+HWI-EAS443:3:10:154:150#0/1  
a\_Z]UR]VWRYYS[XY]VYXU]Y^Y]XV]XYXVVXYXX  
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GAAAGCACCATCCTCTCTATTGTTATGCTATTCTGGATTA  
+HWI-EAS443:3:10:1575:386#0/1  
a^]]^O^XW]ZVZ]XXZ¥ZXRXPZWZUSWWZIDOVBBBB  
@HWI-EAS443:3:10:1639:1018#0/1  
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+HWI-EAS443:3:10:1639:1018#0/1  
aaaa\_a\_a^^`T^\_]a]``\_]\_\_]^\_\_YV¥[X¥^Y¥PP¥]  
@HWI-EAS443:3:10:1673:1504#0/1  
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+HWI-EAS443:3:10:1673:1504#0/1  
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@HWI-EAS443:3:10:1691:334#0/1  
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+HWI-EAS443:3:10:1691:334#0/1  
\_ba]baabaaaab]a[]bb¥bUUb[T`b[b]abJ`a^a[S  
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+HWI-EAS443:3:10:1714:371#0/1  
ZW`a`bb\_aaYba^^b\_aa^Ta`aa` `] ` ` \_aW]R\_W  
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+HWI-EAS443:3:10:179:714#0/1  
ab` `abbaaa\_a`a\_a\_a\_ ` ` \_\_a¥` ` ` \_\_¥¥]Y\_]]  
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+HWI-EAS443:3:10:201:1715#0/1  
a[b`a\_aab\_\_WSbG\_aaa\_a]V\_\_\_\_[^Y¥^¥¥¥\_¥¥¥^^  
@HWI-EAS443:3:10:22:268#0/1  
TGGTGGGGAGCGCCAGGATGCCACAGAAATCAGAGCATCT  
+HWI-EAS443:3:10:22:268#0/1  
abb¥bba`aaaa\_KY\_^^¥\_^]`^a^`¥]]^\_\_^¥\_¥WU]  
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+HWI-EAS443:3:10:581:328#0/1  
\_baab`bbbbbbbabbbbabaaaaabaab`babb\_a  
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TGGGTTTTCGACTTTCTTACTTGATCCATCATTGCCCTC  
+HWI-EAS443:3:10:668:751#0/1  
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+HWI-EAS443:3:10:748:1215#0/1  
aa`aaaaa\_a`Z^`a` `^`\_`a`^`\_`\_a`^`\_`\_`^`^X  
@HWI-EAS443:3:10:756:1272#0/1  
CAACCTGAATGATGCCACATATCAGAGAACAAGAGCGCTT  
+HWI-EAS443:3:10:756:1272#0/1  
^T¥`aaX^bbb¥\_WbXabaaUaLb` `Z]^aTb`aa[bZ[\_  
@HWI-EAS443:3:10:929:679#0/1  
ATGACTTTGAAAGGAAGGGTACTCACTGGTCGGGATAGA  
+HWI-EAS443:3:10:929:679#0/1  
abbaabbab`aaaaaaaa`Z`\_a` `\_\_a`^¥a`\_`^`\_`\_`  
@HWI-EAS443:3:10:936:1046#0/1  
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+HWI-EAS443:3:10:936:1046#0/1  
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CGTCCATCATAATCACTGAGTTTGGATTGAGTGCACATTT  
+HWI-EAS443:3:10:93:764#0/1  
^`J`b`X¥¥`¥]X]\_ZXbbaaZYaab\_baaaa` [ `¥a`ba  
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+HWI-EAS443:3:10:973:640#0/1  
aaa`\_aaa`aaa`a`\_aa`\_a`\_a`^a^^[^a]``]^Z  
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+HWI-EAS443:3:10:999:1153#0/1  
aX[``Wa``a`a`a`\_Y\_¥\_UT^\_¥¥\_`W^`^Y\_W¥W¥]  
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+HWI-EAS443:3:11:1040:216#0/1  
ab``aabZ``a`]aa`baa]X[a\_]\_]\_]``\_a^\_]a]  
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+HWI-EAS443:3:11:1076:1957#0/1  
aa\_X`ab`\_\_ZMFU`\_bI\_aV`Y``^aWVP^\_N\_]a\_[B  
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CTCTAATGCAAGTTCAACACTTCCCAGAAGTCTGGTGC  
+HWI-EAS443:3:11:1208:487#0/1  
`Z`¥`XV`Y]PWWT[``\_Z\_^U[bTWHYZZX]]¥`aZVYa¥  
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TGTCGGAAGAATGATTGGTGAATCGGGAGATTCTACATC  
+HWI-EAS443:3:11:1213:1513#0/1  
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+HWI-EAS443:3:11:1241:601#0/1  
\_Z\_^0^`X\_Z\_TZ\_]`^aa\_\_Z\_``^`XaVaYXPaG^RQ  
@HWI-EAS443:3:11:1287:1811#0/1  
TGCGGTGAAAGGAGTTGGAACAATAGCAATGGAGTTAATC  
+HWI-EAS443:3:11:1287:1811#0/1  
¥¥abbWa^aaaa\_aR\_aaa[]\_\_`[[W[``\_a`^a¥X`aY^  
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TGGACGACTAATCCAGAATAGCATAACAATAGAGAGGATG  
+HWI-EAS443:3:11:1426:686#0/1  
a[aa\_bb^aZaa^\_\_a`a`a`a`aa`^a`a```\_\_\_\_]B  
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+HWI-EAS443:3:11:1475:592#0/1  
aW`a`\_a\_\_aa^^]\_\_X`Y]^Z\_Y^Y^VVY¥RVXTV  
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+HWI-EAS443:3:11:155:332#0/1  
a^aa[aaa``aaa`a`aab`\_`\_``\_Z`^^^U`Y[]^X^  
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+HWI-EAS443:3:11:1587:167#0/1  
\_¥a\_\_^LaT^ZaVX¥^ZWUJZ^]]\_`^XHVRX]YUZUWLPS  
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+HWI-EAS443:3:11:164:1049#0/1  
aZa`X[\_R\_[[a\_``\_aaSYV\_U[\_UZSZS[S\_¥^VVVBB  
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+HWI-EAS443:3:11:1774:1494#0/1  
aVaaab`\_bZaTba`aa^]]Qa]`aa`\_]\_¥FT¥]X``YY  
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GGAGATTCTACATCCAAATGTGCACTGAACTCAAACCTCAG  
+HWI-EAS443:3:11:1782:885#0/1  
¥QY[WX\_^VOZZ^\_^]Z^^]\_]P¥^ZXZXUXUZZWZB  
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+HWI-EAS443:3:11:183:840#0/1  
`[Zaa]^aaa`\_aaa`\_Na\_``a`a`^\_a\_a[UU^`]¥T  
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CTGCGGTGAAAGGAGTTGGAACAATAGCAATGGAGTTAAT  
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aa\_aaaZa`]`^a\_`Z`\_`^\_`^``\_\_\_\_^`^`\_\_`YU`^^  
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GAGGGCAATGATGGATCAAGTAAGAGAAAGTCGAAACCCA  
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HU¥[ORUIX¥¥Ybb```\_\_aV¥¥aaN`aZTZWK¥`\_ZNS  
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TGAGAGAAGAAATAAATACCTAGAAGAGCATCCCAGTGCT  
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`ab]`U`aa`aaaaaabaaa`a\_a``a``\_^a^`bX`W^  
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GAAATAAATACCTAGAAGAGCATCCCAGTGCTGGGAAGGA  
+HWI-EAS443:3:11:292:1803#0/1  
abbbaaaaabaaab]\_¥a]abbaba^baR^a`a\_aaa\_\_`  
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+HWI-EAS443:3:11:312:122#0/1  
aaaaaab\_b`aaa`a\_adWa^\_^]\_]Y]Ya`\_RY^\_V][^  
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+HWI-EAS443:3:11:330:1490#0/1  
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+HWI-EAS443:3:11:383:604#0/1  
aabbababb`RXU`aaU]a`aaaaa``aaaa``]\_\_¥  
@HWI-EAS443:3:11:464:416#0/1  
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+HWI-EAS443:3:11:464:416#0/1  
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+HWI-EAS443:3:11:960:1744#0/1  
ab^a¥]]b`aba[aaaaZU\_`aZaa]`\_aaa`YX^``a`a  
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CAGCAGGTCTTACTCATATCATGATTTGGCATTCCAACCT  
+HWI-EAS443:3:11:993:637#0/1  
aabaaba^abaaaaaaaaaaaa`\_\_aaa\_]``\_\_]a\_]\_`  
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+HWI-EAS443:3:12:1043:661#0/1  
``b[bbaaa^Ra`aa`Y\_\_W\_aaaa\_aa]`T`]`a^\_[^a  
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+HWI-EAS443:3:12:1170:1254#0/1  
abaa\_aaaa`\_a¥a`aaaa`aaa\_U`aa\_\_[a\_a^\_\_\_\_]  
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+HWI-EAS443:3:12:1175:1170#0/1  
a\_]\_W]aaaa[a\_aaa\_aaa]Y`^\_\_\_\_a0a`^ZJ[W``^\_  
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+HWI-EAS443:3:12:1240:1658#0/1  
SabX¥`a¥```bbb¥`[``¥]ab`VaVVY`]a\_MIPaaaa  
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+HWI-EAS443:3:12:1619:923#0/1  
a[Za`a\_]a\_^Y]a`V[^a^^`^QPS]\_^UY\_V]^V^^Y  
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+HWI-EAS443:3:12:231:190#0/1  
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+HWI-EAS443:3:12:559:946#0/1  
a\_\_\_¥Zbaba[a¥^a¥Vb`]aa^a[`aZ``\_]`\_¥\_`\_`  
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+HWI-EAS443:3:12:64:232#0/1  
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a`aaab^a^aa` [ `a[Z^V]^a[^a`a` ``Y¥` \_[WZ[]\_  
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+HWI-EAS443:3:12:887:1159#0/1  
^aZXXb`abZS][^\_Q]aW\_¥a\_\_aa`a^^¥a`aRY` ` `S



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a¥V¥¥`[^aZ[\_WLVX[[¥RYP^^YU]Q^Z[VYU¥R[ZB  
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Sa`S`ZX\_a]¥^\_a]^`\_\_ZWYbaa]^`¥`\_X\_a```[\_Z  
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+HWI-EAS443:3:13:792:469#0/1  
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+HWI-EAS443:3:14:1428:1423#0/1  
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T[]Tbb``X`a]^¥\_X¥^Z]Z\_dW[`a^V^aa\_]aa]S^]  
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\_UZ^¥]]^`\_WWU^^T[T]YPDT[\_aa[`b[V^\_\_`V`Z  
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+HWI-EAS443:3:14:917:1321#0/1  
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@HWI-EAS443:3:15:1017:1477#0/1  
GATGCAACAGCAGGTCTTACTCATATCATGATTTGGCATT  
+HWI-EAS443:3:15:1017:1477#0/1  
`aab\_b`Y`\_`ab\_FTa^Zbabb^`aba\_]`aaaa`aW  
@HWI-EAS443:3:15:1100:869#0/1  
ATGCAACAGCAGGTCTTACTCATATCATGATTTGGCATT

+HWI-EAS443:3:15:1100:869#0/1  
`ababaa`aaSY^aaa`a\_\_aaa^^a\_a`\_a\_^`\_`¥Z  
@HWI-EAS443:3:15:134:124#0/1  
GGTGCTTTCTGCTTTTGATGAGAGAAGAAATAAATACCTA  
+HWI-EAS443:3:15:134:124#0/1  
ab\_aba`aaabZaaaa]`a\_a^a`b\_`aaaa```\_\_aa  
@HWI-EAS443:3:15:1390:116#0/1  
CTGATATGTGGCATCATTGAGTTGGAATGCCAAATCATG  
+HWI-EAS443:3:15:1390:116#0/1  
`bb`XX\_HPXbb\_aXbX\_`aab[\_b`a[````\_a`aa`aab  
@HWI-EAS443:3:15:1446:1410#0/1  
CTGTTTTGGAGTAATTTGAATGGTCTATCCCGACCAGTG  
+HWI-EAS443:3:15:1446:1410#0/1  
¥^^]baa¥`\_bbb`bbbabbba[at`abZ`abb`bbbb]`  
@HWI-EAS443:3:15:169:894#0/1  
CGCTGAGATTGAAGACCTCATTTTCCTGGCACGGTCAGCA  
+HWI-EAS443:3:15:169:894#0/1  
`a`a^]b\_aUQV^baaaaXaba]aaaab^`]R\_\_\_a¥\_\_a  
@HWI-EAS443:3:15:1740:607#0/1  
CTTTCTTACTTGATCCATCATTGCCCTCTGGGCAGCTG  
+HWI-EAS443:3:15:1740:607#0/1  
X`V[XSVbaabba\_a`^ZZ¥N^bV\_b`bbabbba```a\_\_  
@HWI-EAS443:3:15:1765:876#0/1  
GAGGGCAATGATGGATCAAGTAAGAGAAAGTCGAAACCCA  
+HWI-EAS443:3:15:1765:876#0/1  
a\_aa\_]T\_]`a`\_]\_^\_Y\_¥`^^Y^¥\_PWZU^]RRV]  
@HWI-EAS443:3:15:328:669#0/1  
ACAATAGAGAGGATGGTGCTTTCTGCTTTTGATGAGAGAA  
+HWI-EAS443:3:15:328:669#0/1  
a]aaa\_aaa`[aaZ`[LTLO\_\_MROO¥Q[aXY\_[L`SaY`  
@HWI-EAS443:3:15:343:1270#0/1  
CTGCTGTTGCATCTTCGCCATTGTTTGCTTGCGCCAAAC  
+HWI-EAS443:3:15:343:1270#0/1  
a\_U\_bVT`L`b`baa`]`\_a[aa\_\_bU]Y¥ZRT^PR[b\_`  
@HWI-EAS443:3:15:389:221#0/1  
CCCAGTGCTGGGAAGGACCCTAAGAAAACAGGAGGACCCA  
+HWI-EAS443:3:15:389:221#0/1  
\_Z]Y\_\_\_OZaba`Y\_Q\_`^[`]P\_a\_\_XY\_]`[¥GSQLM[  
@HWI-EAS443:3:15:43:208#0/1  
CAAAAGCAGAAAGCACCATCCTCTCTATTGTTATGCTATT  
+HWI-EAS443:3:15:43:208#0/1  
a\_VS\_abaaaaYaaa\_¥[XY^V[YY\_Y\_\_\_¥\_\_^¥[Z^W  
@HWI-EAS443:3:15:667:168#0/1  
AACAATAGAGAGGATGGTGCTTTCTGCTTTTGATGAGAGA  
+HWI-EAS443:3:15:667:168#0/1  
`a`X^`aaTa`b^`R`\_ZTLU\_]U¥^TLX\_]aZ`a^a[a]  
@HWI-EAS443:3:15:682:1030#0/1  
AGCAGGTCTTACTCATATCATGATTTGGCATTCCAACCTG  
+HWI-EAS443:3:15:682:1030#0/1  
G^^^]TPa`¥```Z[Sbb`\_^\_^VSZ\_`Y]Y¥aZaaaT¥\_



+HWI-EAS443:3:16:1195:1329#0/1  
aYb\_bbbbbbaa^baaaa`a``aaaaSaa]a^\_``\_a  
@HWI-EAS443:3:16:1216:424#0/1  
CTGCGGCACCAGACCTTCTGGGAAGTGTGAACCTTGCAT  
+HWI-EAS443:3:16:1216:424#0/1  
¥\_`W]\_¥¥^¥^a^\_\_\_a]baWL¥P¥VXaZ¥W\_R]W¥¥]]\_`  
@HWI-EAS443:3:16:1296:1539#0/1  
GGGGAGCGCCAGGATGCCACAGAAATCAGAGCATCTGTCCG  
+HWI-EAS443:3:16:1296:1539#0/1  
ababa`bZa]a^a`S\_``]\_aaa\_]aZ`WS]`QY[EOW  
@HWI-EAS443:3:16:1426:1610#0/1  
AGCAACCCTTGCCTTCGTCCATTTTACCCTCCAGAAA  
+HWI-EAS443:3:16:1426:1610#0/1  
a][abS^XZaaa]UWa\_a\_XL`a`a\_]aUT¥¥a¥`¥¥\_\_`  
@HWI-EAS443:3:16:1450:1338#0/1  
GTGCTTTCTGCTTTTGATGAGAGAAGAAATAAATACCTAG  
+HWI-EAS443:3:16:1450:1338#0/1  
^FVZ\_]YMS\_`a`\_PNX]aU^\_a^a[VUXX[OV[[[WY¥X  
@HWI-EAS443:3:16:1556:1246#0/1  
ATTGCCCTCTGGGCAGCTGTTTAAAATTTTCTTTGAGGA  
+HWI-EAS443:3:16:1556:1246#0/1  
a`ZX^`b^0^P]^]]^aYU`aaa¥`Pa\_a\_W^`\_¥[`^\_`  
@HWI-EAS443:3:16:172:879#0/1  
ATCCAGAATAGCATAACAATAGAGAGGATGGTGCTTTCTG  
+HWI-EAS443:3:16:172:879#0/1  
aTb]¥]]P]YT\_V^Z^¥0^\_V\_\_a\_ZZ]XaVVVTTWXRBB  
@HWI-EAS443:3:16:175:754#0/1  
AGAGCATCTGTGGAAGAATGATTGGTGAATCGGGAGAT  
+HWI-EAS443:3:16:175:754#0/1  
aa`^b``aaaU¥`a[V\_][XX`ZWW^^X\_]^[^[[[[]^]  
@HWI-EAS443:3:16:228:1880#0/1  
CAATAGAGAGGATGGTGCTTTCTGCTTTTGATGAGAGAAG  
+HWI-EAS443:3:16:228:1880#0/1  
aabba¥]aa\_a`aYPL¥a\_Z\_\_Y\_U¥`^HDTY]PW``\_YR  
@HWI-EAS443:3:16:229:829#0/1  
TGGGCATGACTTTGAAAGGGAAGGGTACTCACTGGTCGGG  
+HWI-EAS443:3:16:229:829#0/1  
a\_[¥\_\_\_b\_\_b\_¥\_a¥\_b[`]]]bbbRX`bbabTbaG`bba  
@HWI-EAS443:3:16:255:1610#0/1  
ATGGGCTTGCAGTAGCAAGTGGGCATGACTTTGAAAGGGA  
+HWI-EAS443:3:16:255:1610#0/1  
aaaa`b`\_`\_\_aaS^¥XY``UGL\_\_\_[R¥\_]`^X`\_^YWUT  
@HWI-EAS443:3:16:281:1652#0/1  
ATCTGTGCGGAAGAATGATTGGTGAATCGGGAGATTCTAC  
+HWI-EAS443:3:16:281:1652#0/1  
a`a^aV`ba\_ab\_\_[[`a¥XXS[`GXM\_PXRS\_WTT]`0  
@HWI-EAS443:3:16:370:674#0/1  
CGAAGATGCAACAGCAGGTCTTACTCATATCATGATTTGG  
+HWI-EAS443:3:16:370:674#0/1  
aba\_]b\_¥\_aaab`^]]XV^a\_aaaa`aaaaaaaa¥¥\_`]





+HWI-EAS443:3:16:862:1244#0/1  
aaa`]aaaaaa\_`a`a`a^`]\_\_a\_a`]\_a`\_`][^^]`  
@HWI-EAS443:3:16:881:374#0/1  
GAGCATCCCAGTGCTGGGAAGGACCCTAAGAAAACAGGAG  
+HWI-EAS443:3:16:881:374#0/1  
¥V^ababaa[\_V\_a`\_^F[aa`W\_a`\_a\_a^a¥`[aa\_^`  
@HWI-EAS443:3:16:998:1869#0/1  
AAATAAATACCTAGAAGAGCATCCCAGTGCTGGGAAGGAC  
+HWI-EAS443:3:16:998:1869#0/1  
aba`aaaaaa\_ab`aa\_aaa`\_]\_]VZa¥V\_^`\_\_`^^^  
@HWI-EAS443:3:17:1156:1512#0/1  
ATGGGCTTGCAGTAGCAAGTGGGCATGACTTTGAAAGGGA  
+HWI-EAS443:3:17:1156:1512#0/1  
aaa`baa\_aa]\_V`\_^`]XSY\_\_\_`\_`\_`\_a\_aaX\_]YY]W  
@HWI-EAS443:3:17:1163:1417#0/1  
CCATCCTCTCTATTGTTATGCTATTCTGGATTAGTCGTCC  
+HWI-EAS443:3:17:1163:1417#0/1  
I\_¥^ba\_Vbb\_a¥Xabbbbbbba\_bbab`X¥b`¥\_aaa`bb  
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GAGAGGATGGTCTTTCTGCTTTTGATGAGAGAAGAAATA  
+HWI-EAS443:3:17:1206:387#0/1  
aaa`aaa`aaVTT`\_a\_\_aZaaa`a]a\_]\_Y`\_\_\_^\_\_`\_`  
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TAACAATAGAGAGGATGGTCTTTCTGCTTTTGATGAGAG  
+HWI-EAS443:3:17:1216:1283#0/1  
a\_aaaaaabaa`\_b\_\_a^K¥R¥`[RYYL]\_`aST\_URXSZ  
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TTTCGACTTTCTCTTACTTGATCCATCATTGCCCTCTGGG  
+HWI-EAS443:3:17:1403:240#0/1  
]¥YLTZaZ]PaaZUVPO`\_`U]PORZSXTG[XRKUU¥UKR  
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CGCCAAGCAAACAATGGCGAAGATGCAACAGCAGGTCTTA  
+HWI-EAS443:3:17:1480:614#0/1  
\_bbabbbbbbabaabbab]`a\_]a```a`a`X``a¥U^`a  
@HWI-EAS443:3:17:1489:212#0/1  
GGTGAATGGACGAAGGACAAGGGTTGCTTATGAAAGAA  
+HWI-EAS443:3:17:1489:212#0/1  
a`I][a]`VW¥a`ba`\_a`^PWQO]XTJSZXZ¥UPVTTOR  
@HWI-EAS443:3:17:1498:1089#0/1  
CACTCATTCTGAGGGGATCAGTTGCACATAAATCCTGCCT  
+HWI-EAS443:3:17:1498:1089#0/1  
a[[\_W^abbbbaab]UX`\_aa`\_]`^X]aaXYWa`^a\_Y\_\_  
@HWI-EAS443:3:17:1569:479#0/1  
GTCCGAAGAATGATTGGTGAATCGGGAGATTCTACATCC  
+HWI-EAS443:3:17:1569:479#0/1  
a[]^ZZ\_]`\_^\_XZZY^YS^[V[YJ[XVQ[TUNKXR[YUQB  
@HWI-EAS443:3:17:1574:1919#0/1  
AAGCAACCCTTGTCCTTCGTCCATTTTCACCCCTCCAGAA  
+HWI-EAS443:3:17:1574:1919#0/1  
]^X`^`^YW`]aRYN]YV`YZ[R¥Q\_`aaa\_SOPW`\_^`^Z

@HWI-EAS443:3:17:1593:1047#0/1  
CAATCTCAGCGTTTCCTGGGTTTCGACTTTCTCTTACTTG  
+HWI-EAS443:3:17:1593:1047#0/1  
`baaaaba`abaaa^\_aaaa\_aa\_a`aa^a\_a`\_^a`\_  
@HWI-EAS443:3:17:1668:173#0/1  
GGCTTGCAGTAGCAAGTGGGCATGACTTTGAAAGGGAAGG  
+HWI-EAS443:3:17:1668:173#0/1  
abb[aa`aa\_aa]`[\_UaaaW\_\_`[W`\_a^¥\_¥\_¥\_¥W^W  
@HWI-EAS443:3:17:265:1050#0/1  
TTCCTGGGTTTCGACTTTCTCTTACTTGATCCATCATTGC  
+HWI-EAS443:3:17:265:1050#0/1  
aabb^]]a`ba``\_aaaaaaaa\_a`aaa\_aa\_\_a`\_a`  
@HWI-EAS443:3:17:286:1639#0/1  
GCTGTTGCATCTTCGCCATTGTTGCTTGGCGCCAAACTC  
+HWI-EAS443:3:17:286:1639#0/1  
`baY^a`aaaa\_aaY`¥WY\_QQ`aU`¥`[T^T^V[¥]SVX  
@HWI-EAS443:3:17:335:1515#0/1  
GGATGGTGCTTTCTGCTTTTGATGAGAGAAGAAATAAATA  
+HWI-EAS443:3:17:335:1515#0/1  
]UX`Y\_VR[X`]XYNV]a`YJOU[XNKZ`UYURLS¥Y]ZG  
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GCTGGGTTTTCATTTGGTCTCATCAGGCTGACCACTTGGC  
+HWI-EAS443:3:17:379:1789#0/1  
^]]^\_M[[XRZ\_Y\_T\_RX[H\_[V`\_ZVRZXXG[K[SYPB  
@HWI-EAS443:3:17:401:1996#0/1  
ACTTCCCAGAAGGTCTGGTGCCGCAGGTGCTGCGGTGAAA  
+HWI-EAS443:3:17:401:1996#0/1  
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+HWI-EAS443:3:17:465:1200#0/1  
aaabb`bbWaaa`b``aaXaa\_a``aaa`a`aaa\_aaYa`  
@HWI-EAS443:3:17:530:1223#0/1  
GACTAATCCAGAATAGCATAACAATAGAGAGGATGGTGCT  
+HWI-EAS443:3:17:530:1223#0/1  
a`]¥`a\_aa`^```aaa^Y^^\_\_`\_\_\_`\_`^^]^^G[VV  
@HWI-EAS443:3:17:533:728#0/1  
CACTTGGCTGTTTTGGAGTAATTTGAATGGGTCTATCCCG  
+HWI-EAS443:3:17:533:728#0/1  
abaaaa`aabI\_``UTP]H`]`\_\_^\_a]S[aZYVYSSW\_W  
@HWI-EAS443:3:17:568:1137#0/1  
CTGTTTTGGAGTAATTTGAATGGGTCTATCCCGACCAGTG  
+HWI-EAS443:3:17:568:1137#0/1  
aaa)`T`W[`^¥RR`\_a`a`]\_a[G^^`[aU\_]\_U]`^^^  
@HWI-EAS443:3:17:572:1771#0/1  
ATCACTGAGTTTGAGTTCAGTGCACATTTGGATGTAGAAT  
+HWI-EAS443:3:17:572:1771#0/1  
aaaa\_``\_a`aaaa[^\_a^Z`\_```^^U`\_]R\_]^\_X  
@HWI-EAS443:3:17:62:1639#0/1  
TGCTTATGAAAGAATGTGCAATATCCTCAAAGGAAAATTT

+HWI-EAS443:3:17:62:1639#0/1  
Yabb\_^SS\_¥]¥aa\_bVS^b¥\_`b¥bbb`aba`T¥ba¥¥  
@HWI-EAS443:3:17:642:1800#0/1  
TCTGGGCAGCTGTTTCAAATTTTCCTTTGAGGATATTGCA  
+HWI-EAS443:3:17:642:1800#0/1  
aa^aaaabba¥¥¥a\_ba`^aab`^`\_\_a\_a`]``STDT  
@HWI-EAS443:3:17:71:1244#0/1  
CTGCTGTTGCATCTTCGCCATTGTTTGCTTGGCGCCAAAC  
+HWI-EAS443:3:17:71:1244#0/1  
a¥V]``[^\_¥¥^]VY\_YV[Y[YPTQ]\_VYVXV^Z[JFYNV  
@HWI-EAS443:3:17:74:1968#0/1  
CAGGAAACGCTGAGATTGAAGACCTCATTTTCCTGGCACG  
+HWI-EAS443:3:17:74:1968#0/1  
a``abab^Zaaaa`aaa`ba\_a\_[aaaaa`a[\_`\_aadU  
@HWI-EAS443:3:17:752:1869#0/1  
ATCATAATCACTGAGTTTGAGTTCAGTGCACATTTGGATG  
+HWI-EAS443:3:17:752:1869#0/1  
^¥Xa`b`a`^`¥S\_a\_`^`\_WXRa¥\_Z¥\_`]`[WG\_\_\_SW  
@HWI-EAS443:3:17:867:879#0/1  
ATGCAACAGCAGGTCTTACTCATATCATGATTTGGCATTTC  
+HWI-EAS443:3:17:867:879#0/1  
aaaaaaaa\_baa^]`aaa`aaaa``aa``\_\_^W`^\_X¥  
@HWI-EAS443:3:17:885:586#0/1  
GTCTGGGATAGACCCATTCAAATTACTCCAAAACAGCCAAG  
+HWI-EAS443:3:17:885:586#0/1  
a\_aaaa``aaa`a¥`a^aa\_`\_]\_a^]\_\_`^^Z``\_\_  
@HWI-EAS443:3:17:904:1317#0/1  
CATAACAATAGAGAGGATGGTGCTTTCTGCTTTTGATGAG  
+HWI-EAS443:3:17:904:1317#0/1  
aabbbbbbbbababaa`aaSaa\_`aaa`QX`b`U[\_Z¥\_  
@HWI-EAS443:3:17:905:1289#0/1  
CACATTCTGGGATCCATTCCGGTGCGAACAAGCGCTCTTG  
+HWI-EAS443:3:17:905:1289#0/1  
aaa\_]`b`^V\_a`a]`a\_`¥Y[U^`\_\_`\_`^]^^\_\_^^[  
@HWI-EAS443:3:17:910:1677#0/1  
CTCACTGGTCGGGATAGACCCATTCAAATTACTCCAAAAC  
+HWI-EAS443:3:17:910:1677#0/1  
]abZTT^]\_[\_\_^X\_abb\_]`aaaa]b]```^aaba``\_  
@HWI-EAS443:3:18:1011:1621#0/1  
GATTTATGTGCAACTGATCCCCTCAGAATGAGTGCTGACC  
+HWI-EAS443:3:18:1011:1621#0/1  
aaaaab\_\_^`ba\_^\_a`\_\_`a^`\_\_`\_\_XMY]\_\_^Y¥  
@HWI-EAS443:3:18:1074:1642#0/1  
CTCATATCATGATTTGGCATTCCAACCTGAATGATGCCAC  
+HWI-EAS443:3:18:1074:1642#0/1  
`¥a\_UU[¥W\_a`^]`^OTXYOY]]^VQUUZNW]^`\_XT]X  
@HWI-EAS443:3:18:1182:1375#0/1  
CGCCAAGCAAACAATGGCGAAGATGCAACAGCAGGTCTTA  
+HWI-EAS443:3:18:1182:1375#0/1  
aaa`aaba]aa[aaX[T\_]WLaZZUFZa¥\_\_VXXYYYQ¥Y

@HWI-EAS443:3:18:1184:216#0/1  
GGAAGAATGATTGGTGAATCGGGAGATTCTACATCCAAA  
+HWI-EAS443:3:18:1184:216#0/1  
`aI]b^` [ `Zaa` ] ^ ` Y ` P \_ ` ^ ` T ` ¥X [ ¥P ¥WQTKNRY \_ ]  
@HWI-EAS443:3:18:1197:232#0/1  
CGTCCATCATAATCACTGAGTTTGAGTTCAGTGCACATTT  
+HWI-EAS443:3:18:1197:232#0/1  
]ROVLRZX¥WXYSVGY] [ J ¥S ¥W ¥MTUUWWMVMPXPOSS  
@HWI-EAS443:3:18:1213:853#0/1  
GGCTGTTTTGGAGTAATTTGAATGGGTCTATCCCGACCAG  
+HWI-EAS443:3:18:1213:853#0/1  
`U] [ \_QR^` [ ¥RXNZZ^^\_^^\_SNYVQVPYQX[V\_PSLQ  
@HWI-EAS443:3:18:1267:1516#0/1  
GAAAGCACCATCCTCTATTGTTATGCTATTCTGGATTA  
+HWI-EAS443:3:18:1267:1516#0/1  
\_ [ \_bbbb ] ` a ` ^ ` WW ` ` a ` ¥ ¥ Va ^ ab ] ] ¥ ^ [ ` ` N ] Z ] Z ¥  
@HWI-EAS443:3:18:1297:120#0/1  
GAATGATTGGTGAATCGGGAGATTCTACATCCAAATGTG  
+HWI-EAS443:3:18:1297:120#0/1  
aaaaaaaa ` aa ` ` ` aa ¥ \_\_ ^ ^ W \_\_ ] ^ ^ W ] ^ ] Z \_ ^ Z \_  
@HWI-EAS443:3:18:1342:1084#0/1  
AGTCGTCATCATAATCACTGAGTTTGAGTTCAGTGCACA  
+HWI-EAS443:3:18:1342:1084#0/1  
Y ` [ ` aYa ] \_ ] \_Y ¥RZXZVZ\_ZXMY^ ^ ^ \_VZ] [ ZT ¥ \_\_ ¥  
@HWI-EAS443:3:18:1364:1271#0/1  
CGGTGAAAGGAGTTGGAACAATAGCAATGGAGTTAATCAG  
+HWI-EAS443:3:18:1364:1271#0/1  
ab\_\_b^bbba ` \_ ` baa ` a^aYaa ` ` ` ` aaX ` a ` ` ` a\_Zaa  
@HWI-EAS443:3:18:1440:1780#0/1  
CAGTTGCACATAAATCCTGCCTGCCTGCTTGTGTGTATGG  
+HWI-EAS443:3:18:1440:1780#0/1  
`bbX¥] b ` ^ b ` baaaa ` \_aaZ ` a \_\_\_ ` ` ` ` ` ^ a ¥ \_ U \_\_ [ Z  
@HWI-EAS443:3:18:1474:998#0/1  
TAGAGAGGATGGTCTTTCTGCTTTTGATGAGAGAAGAAA  
+HWI-EAS443:3:18:1474:998#0/1  
aab\_a ` aa^ ` aaS ` P [ ] ` Y ] ^ [ ] a ` \_ ¥ ] \_ [ V ^ ] ` [ [ \_ [ ^ ^  
@HWI-EAS443:3:18:1679:1958#0/1  
GACTTTGAAAGGAAGGGTACTCACTGGTCCGGATAGACC  
+HWI-EAS443:3:18:1679:1958#0/1  
abbbb ` W ^ ` baaba\_ab^VaRa ` aZab\_0Sba ` \_aa\_\_S¥  
@HWI-EAS443:3:18:1751:622#0/1  
CGGTCAGCACTCATTCTGAGGGGATCAGTTGCACATAAAT  
+HWI-EAS443:3:18:1751:622#0/1  
] a \_aaa ` Z ` abaaba ` bba \_Z \_aY \_ ¥ ] ^ Uaa \_\_ ^ ¥ ` aaa \_  
@HWI-EAS443:3:18:1755:1417#0/1  
ATCAAAAAGCAGAAAGCACCATCCTCTCTATTGTTATGCTA  
+HWI-EAS443:3:18:1755:1417#0/1  
a ¥ ` a ` \_a\_a^YY\_ ¥XW ` Y ^ \_XXZ] W ¥ W ^ \_ ^ \_Z ^ ] ^ ^ Z ^ \_  
@HWI-EAS443:3:18:383:1558#0/1  
ATGGTCTTTCTGCTTTTGATGAGAGAAGAAATAAATACC

+HWI-EAS443:3:18:383:1558#0/1  
`YaVKYaaaa`aa`a`aa\_\_a^U`Z\_\_`\_`a`\_`^`\_\_]Z  
@HWI-EAS443:3:18:384:2015#0/1  
GAATGATTGGTGAATCGGGAGATTCTACATCCAAATGTG  
+HWI-EAS443:3:18:384:2015#0/1  
\_bba`baab^^a[ababa\_Y`a`aaaa`a```aaa]¥Wa  
@HWI-EAS443:3:18:429:1627#0/1  
GATGCAACAGCAGGTCTTACTCATATCATGATTTGGCATT  
+HWI-EAS443:3:18:429:1627#0/1  
aaaa\_bb`aXaaY\_TXa\_a`\_a¥`a\_^a`\_\_Z\_\_]U¥\_^^  
@HWI-EAS443:3:18:447:673#0/1  
GGGGTGAAAATGGACGAAGGACAAGGGTTGCTTATGAAAG  
+HWI-EAS443:3:18:447:673#0/1  
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+HWI-EAS443:3:18:520:210#0/1  
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+HWI-EAS443:3:18:868:354#0/1  
`\_``\_`^``\_`^aaaa\_a\_a^^^\_]^^^\_`^`^`[HW`W^]\_X  
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+HWI-EAS443:3:18:885:632#0/1  
aJ\_^RT\_Y]S[\_Taa`¥S]]\_V]XQ]\_a`^`\_`[\_SSSO\_\_  
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+HWI-EAS443:3:18:94:361#0/1  
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+HWI-EAS443:3:19:1009:1503#0/1  
abb`aa`[aab\_]bbaaab````aa`b\_]a`\_aa`\_a¥\_a  
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+HWI-EAS443:3:19:1039:1617#0/1  
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+HWI-EAS443:3:19:103:1836#0/1  
`VXaaaaaaaaaaaa``]XVZ\_`]`[¥[`X[^`\_aa`\_\_Z  
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+HWI-EAS443:3:19:1154:129#0/1  
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+HWI-EAS443:3:19:564:1105#0/1  
^a^a`a\_W^` ` \_KU]]`^a]]YYX`^VLQBBBBBBBBBB  
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+HWI-EAS443:3:19:580:727#0/1  
aa` ` \_¥\_Z]` ` ^^ [baaaaa[^]\_Zaa]aa^a]^0^` [ `   
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+HWI-EAS443:3:19:652:1562#0/1  
aaaaaba`aaa^a`a\_a`aa\_V[a`a^`\_a` ` ` \_V\_dWU  
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+HWI-EAS443:3:19:660:773#0/1  
Ubb` [^S¥\_\_¥\_a\_\_a^a^XZbb[ ` ZYZ¥QT\_Za]UH` [  
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AGAGGATGGTGCTTTCTGCTTTTGATGAGAGAAGAAATAA  
+HWI-EAS443:3:19:695:1588#0/1  
ab^^aaaaa\_a`aba`a`\_aaaa` ` \_a^aYa^^¥XWa^` `   
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+HWI-EAS443:3:19:731:966#0/1  
\_\_bbbab\_Vabbbb\_X]aaa` [\_bUF^` ` ` ` \_a[\_Z\_a\_\_  
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ATGGTGCTTTCTGCTTTTGATGAGAGAAGAAATAAATACC  
+HWI-EAS443:3:19:749:1345#0/1  
a`^` ]\_a` ` \_a` ` ` ` ` ` a` ` \_\_\_\_\_ ` ` ` ` a` a` \_^\_[^  
@HWI-EAS443:3:19:880:174#0/1  
GATGGATCAAGTAAGAGAAAGTCAAACCCAGGAAACGCT  
+HWI-EAS443:3:19:880:174#0/1  
YVYX[YY][[ ` TY[VM` ^a` \_QO^][X[WQZ\_\_XPXQTX¥  
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GACAAGGGTTGCTTATGAAAGAATGTGCAATATCCTCAAA  
+HWI-EAS443:3:19:911:257#0/1  
aab^Z^^aX\_b`abaa[\_aa`aaaa^`Yb`aa` ` \_a\_aa`  
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+HWI-EAS443:3:19:962:887#0/1  
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GGTGCTTTCTGCTTTTGATGAGAGAAGAAATAAATACCTA  
+HWI-EAS443:3:19:986:1199#0/1  
a`abbabaaabaabaab\_ab` `abbab^baa]aaa`a`ab  
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GATTGGTGAATCGGGAGATTCTACATCCAAATGTGCACT  
+HWI-EAS443:3:1:1034:300#0/1  
a`\_`aa[\_a\_]`^`\_`¥U^^^`\_`^Z\_[RU[]W]]Z^WBBB



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`LYVXU¥BBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBB  
@HWI-EAS443:3:1:1149:1387#0/1  
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+HWI-EAS443:3:1:1149:1387#0/1  
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ACTTCCCAGAAGGTCTGGTGCCGAGGTGCTGCGGTGAAA  
+HWI-EAS443:3:1:125:970#0/1  
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+HWI-EAS443:3:1:1263:1026#0/1  
aba`ab``bb`bbbaabaaaa`]aaaa¥^ab\_a\_aaaa`B  
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+HWI-EAS443:3:1:1289:1321#0/1  
abba`b``abbaaaW]aabbab¥S¥b`a^Zaa`\_[a`bB  
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aaa\_¥]^¥aaa\_\_a]`\_`a\_]\_aZ`\_`^`aNaQ\_`\_`\_`^B  
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+HWI-EAS443:3:1:612:1062#0/1  
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\_b¥aa`^G`N\_¥abb\_baaa]^YaaM\_`[`a[\_S`a\_]bB  
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a\_bbab``aabbab\_b\_aab`b`aab\_aaa\_``\_ab[\_a`  
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+HWI-EAS443:3:20:1012:1503#0/1  
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+HWI-EAS443:3:20:1048:626#0/1  
a\_a`^aaaa^\_```\_`adWZ]^\_¥^^¥\_^]¥¥W¥^WWW  
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GAGGTCTTCAATCTCAGCGTTTCCTGGGTTTCGACTTTCT  
+HWI-EAS443:3:20:1093:991#0/1  
`^¥WJ[LO``aa]a^aaa`^a\_\_aa\_]Va``VY\_\_a`Z`  
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+HWI-EAS443:3:20:1117:364#0/1  
a\_aa`a`\_a\_`a^^`\_\_a\_a¥Z^\_\_\_\_Z[[]]]]WW^W]VW

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a`a`a\_\_aaa\_\_aaa`]aaX\_\_a[`]^P[^[G]^WZ^¥\_  
@HWI-EAS443:3:20:1131:1626#0/1  
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ab`]aaba\_aa`bbaabbbb\_\_a^babbaY`\_aZa``a\_  
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aa¥`baa\_babaabXb`bbaaaaa\_ab\_aaaba\_aaZ^^`  
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+HWI-EAS443:3:20:1266:1670#0/1  
aab`a[¥\_b\_`¥`\_\_`[]\_\_[]`¥^Xa`a`\_WU\_\_Z\_  
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+HWI-EAS443:3:20:1366:654#0/1  
]¥V\_b`PX]]UTVKYWQ[`ZYT[TZ\_[]XQY`¥MDTLQ^  
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+HWI-EAS443:3:20:1465:1029#0/1  
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aa^[\_X^¥XaaaX\_NU¥a``]ZNZ¥XT]¥R¥^`XPZR¥WF  
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+HWI-EAS443:3:20:1598:971#0/1  
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+HWI-EAS443:3:20:1630:717#0/1  
ab`abb`aabb`ba^b^aaaa¥`\_a[aY`^`a\_`a]]\_\_`  
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+HWI-EAS443:3:20:1747:649#0/1  
`W]a^^`T`aaaa\_aa]\_^a^Z`[¥`a\_`^``YTOZ][Z^  
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+HWI-EAS443:3:20:29:1492#0/1  
ab``\_aa^^`aa]aa`a¥aaa\_\_\_```a`][a\_a`T¥¥OFX  
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+HWI-EAS443:3:20:406:1946#0/1  
a\_a`\_\_`aa``\_a]Xa]aXaa\_aa]`Z\_Q\_XXUYX]Z\_^X  
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+HWI-EAS443:3:20:477:606#0/1  
^````a]Y]W^a`[\_¥^a]^VYQWW`[J[\_^]¥\_[ZQ¥Y¥  
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+HWI-EAS443:3:20:491:1285#0/1  
]\_] [`\_U\_^X^]aa\_VVaY` `^a\_a¥Z¥`Zaba`[\_a\_¥K  
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GGGCATGACTTTGAAAGGAAGGGTACTCACTGGTCCGGGA  
+HWI-EAS443:3:20:587:1562#0/1  
aa`aaaaba`aaaa` `aaaa` `a]Ya]^aaa¥a\_Y\_`¥\_Z  
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+HWI-EAS443:3:20:592:991#0/1  
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ATATCATGATTTGGCATTCCAACCTGAATGATGCCACATA  
+HWI-EAS443:3:20:690:1041#0/1  
¥aVaba\_a^``aa[a`a`\_Ya^a\_\_^aa\_a]\_\_`X\_^a`\_`

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+HWI-EAS443:3:20:736:1576#0/1  
Zaa\_abb`^a^`abaa\_bbabbaba`b`ba`bYa\_aaab  
@HWI-EAS443:3:20:753:385#0/1  
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+HWI-EAS443:3:20:753:385#0/1  
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+HWI-EAS443:3:20:770:807#0/1  
^ZX]`]NWY[TXY\_a`W\_TV¥¥UZWUPGa\_¥XY\_]WWY\_  
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+HWI-EAS443:3:20:780:237#0/1  
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+HWI-EAS443:3:20:809:363#0/1  
aa\_b`a`Ua`\_`a`^`\_`^a`\_`^U¥]ZVV^X\_YY^VY  
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+HWI-EAS443:3:20:812:1579#0/1  
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+HWI-EAS443:3:20:820:477#0/1  
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+HWI-EAS443:3:20:822:603#0/1  
a`bababbaabaaaabaaa`a]aa\_a`\_`\_`aa[b`[¥a¥  
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GGAGGGGTGAAAATGGACGAAGGACAAGGGTTGCTTATGA  
+HWI-EAS443:3:20:843:589#0/1  
aXG`a\_aUa[\_\_\_\_`a`\_`\_`^\_]Y]^Y]Y]RX\_YXVY]]]  
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ATCATAATCACTGAGTTTGAGTTCAGTGCACATTTGGATG  
+HWI-EAS443:3:20:908:173#0/1  
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+HWI-EAS443:3:20:959:246#0/1  
aaa`XX]aa^aa]0]\_\_][UNVJ[\_[XVYU¥\_¥¥`P[¥¥\_  
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@HWI-EAS443:3:21:676:1243#0/1  
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aaabbbb`bab`\_ababbaabaaaaabaabba^a\_]`aa  
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+HWI-EAS443:3:21:759:501#0/1  
aa]a¥]0`aaa`a\_]`^a\_¥]Z\_a`\_a`a\_\_\_\_\_¥[]^XW`  
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CCCTTGTCTTCGTCCATTTTCACCCCTCCAGAAATTCG  
+HWI-EAS443:3:21:767:363#0/1  
U\_ba\_\_abbabba`[aWbbb`b^aaSaa[]bb\_\_`a\_\_\_\_]  
@HWI-EAS443:3:21:773:937#0/1  
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+HWI-EAS443:3:21:773:937#0/1  
a¥aaa`a¥SZVQ\_\_VZ[aa``Y[]\_a\_Y\_Y[\_^]]\_Y^U]  
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ATTGCCCTCTGGGCAGCTGTTTCAAATTTTCCTTTGAGGA  
+HWI-EAS443:3:21:798:351#0/1  
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[[R`Ya\_¥bb[a¥a`ZU^[Z¥P]XFY[`FPT\_\_\_WP[]][  
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+HWI-EAS443:3:22:1023:834#0/1  
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aa```aab`a[baaaaaabaa`aa`aa\_\_\_\_]a\_`\_`\_`a  
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ATGGGTCTCTCTGTTTTCTTAGGGTCTTCCCAGCACTGG  
+HWI-EAS443:3:22:1047:791#0/1  
Y^¥`¥M][ZVUZ¥aaa\_aaa\_a`¥^]`^`XXa][`\_VZa^^  
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TCGGAAGAATGATTGGTGAATCGGGAGATTCTACATCCA  
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aaaa`a\_YZaa`¥¥X^[]\_^\_]X\_\_[][^`Z^]VYZ[Z\_  
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@HWI-EAS443:3:23:1161:219#0/1  
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abba\_aababa`¥b`aaaaaaaa^`^`\_]`\_\_a\_\_\_VaVX  
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+HWI-EAS443:3:23:1211:235#0/1  
aa\_\_`^ab^`a`aa^aa^a\_`^^`^¥`\_\_`\_]`]0^a`^^  
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+HWI-EAS443:3:23:1212:592#0/1  
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abb`abYbb`\_U`aa\_a^`aaaa\_b]U`U[]`[[Y¥Q``H  
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+HWI-EAS443:3:23:1301:1431#0/1  
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GAATGATTGGTGAATCGGGAGATTCTACATCCAAATGTG  
+HWI-EAS443:3:23:1351:1752#0/1  
ab\_\_`X\_a^Y`b`Z\_]aX^`^X^Z^]¥P]^`^`X\_  
@HWI-EAS443:3:23:1397:1938#0/1  
AGAGGATGGTGCTTTCTGCTTTTGATGAGAGAAGAAATAA  
+HWI-EAS443:3:23:1397:1938#0/1  
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TGCTTTCTGCTTTTGATGAGAGAAGAAATAAATACCTAGA  
+HWI-EAS443:3:23:1462:1048#0/1  
U``¥RZ```[\_¥b\_b\_^\_S\_[baZT`aX`\_PPbXDR¥a^\_  
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+HWI-EAS443:3:23:1478:2014#0/1  
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+HWI-EAS443:3:23:1493:1597#0/1  
K`Y[ba[abbbba\_aZ`\_``bbaa`¥aab]baab]^`^X]\_  
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+HWI-EAS443:3:23:1697:865#0/1  
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+HWI-EAS443:3:23:371:1124#0/1  
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+HWI-EAS443:3:23:373:2010#0/1  
^[\_bVaab`a\_ZW`a]\_`aaY\_¥`aaa\_\_\_aaaa`\_aaa^  
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+HWI-EAS443:3:23:393:834#0/1  
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+HWI-EAS443:3:23:407:300#0/1  
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+HWI-EAS443:3:23:517:168#0/1  
abaaaaa[b`b\_aba\_\_aXa\_]`^Z^¥^\_^]\_S]\_W\_¥]^  
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+HWI-EAS443:3:23:565:164#0/1  
[¥^`ZYb¥Y¥bY¥XV`Y[X[Z`aLDTaaSNY```M¥\_¥a]  
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aaa[aa`aaaa`a`^\_\_`\_\_^`\_`\_`\_V\_a\_\_^\_X\_\_`\_^^  
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+HWI-EAS443:3:23:668:721#0/1  
VaX^`\_`\_¥\_b]b^aVP\_aaUaZa]\_]\_¥ZXS¥baadW`Y`  
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CGCCAAGCAAACAATGGCGAAGATGCAACAGCAGGTCTTA  
+HWI-EAS443:3:23:72:1923#0/1  
`\_`\_a\_\_\_^¥¥`\_¥a]P¥\_P\_``]SV[Y^¥`Y^X^PDX^VU  
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GCTTCTGCTTTTGATGAGAGAAGAAATAAATACCTAGAA  
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a¥a`aa`\_aa]``\_aaaaa`aa\_aa`\_b`aaaS\_aa\_a\_

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aa]Xaaaaaaaa\_baaabaaa]\_^`aaa`a`Y`\_\_`\_^^^  
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GAGAGGATGGTGCTTTCTGCTTTTGATGAGAGAAGAAATA  
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aaaaaaaa^a`P[Z^^\_YZUYY]\_\_ZZ]\_^Z^Z]¥]^W  
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AGGTTCAACACTTCCCAGAAGGTCTGGTGCCGCAGGTGCT  
+HWI-EAS443:3:24:104:1610#0/1  
`VU]bb`¥\_]a\_`[`a`\_¥YSZb``XY\_\_`¥]UZLL[`B  
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CACATATCAGAGAACAAGAGCGCTTGTTCGCACCGGAATG  
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GCTGTTTTGGAGTAATTTGAATGGGTCTATCCCGACCAGT  
+HWI-EAS443:3:24:1269:1248#0/1  
`¥baI\_aa¥\_`bababababa¥]aa\_`\_^`\_[YZ\_]W\_`U  
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+HWI-EAS443:3:24:1272:1653#0/1  
aa\_aaa¥aa\_`]a\_`\_`\_`\_`^a\_`\_`\_`^]]Z^\_\_\_`\_^^  
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TTCCAACCTGAATGATGCCACATATCAGAGAACAAGAGCG  
+HWI-EAS443:3:24:1279:1260#0/1  
]^\_U]a[`JZ^aa\_]ba[`]¥Ya^`\_Z^`\_a\_a`\_`\_Ya  
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+HWI-EAS443:3:24:1301:380#0/1  
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+HWI-EAS443:3:24:1318:986#0/1  
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+HWI-EAS443:3:24:1326:1018#0/1  
aZ][abbaba]ZU\_aa^`[Y¥\_`Z^aba]¥aZ]]^^¥\_  
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GGGTCCTCCTGTTTTCTTAGGGTCCTTCCCAGCACTGGGA  
+HWI-EAS443:3:24:1430:655#0/1  
ab¥UU`\_`\_¥Xaaaa]V¥\_]`^^OQ`XTNTO^^^PZYPUM  
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^b\_bTa^[\_a\_WT¥[\_\_abb`a`ZZS`\_P`\_]ZZU^¥a\_\_  
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ababbbbb^`abb\_a`Yb^ab]``\_aabWa\_``\_]`^W`\_¥  
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+HWI-EAS443:3:24:1670:1303#0/1  
ab\_`¥¥Qb^a^`\_a\_`]\_^\_L]a]`X\_\_XZ¥a[`¥U¥^XY  
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AGAGGATGGTGCTTTCTGCTTTTGATGAGAGAAGAAATAA  
+HWI-EAS443:3:24:1774:553#0/1  
¥b¥```H\_`¥\_ZT``¥TR[``Y]V\_^US]\_aR`a`a\_\_aa  
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ACTTCCCAGAAGGTCTGGTGCCGCAGGTGCTGCGGTGAAA  
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XVaaaab``]a`a¥aa`^\_`W¥H^aU^```a\_a`a\_\_a\_]\_  
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TGCTTTCTGCTTTTGATGAGAGAAGAAATAAATACCTAGA  
+HWI-EAS443:3:24:203:402#0/1  
aaa^aaaaa¥aaaaa^a``a````\_a\_aa`a\_\_aa^\_\_a\_\_  
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+HWI-EAS443:3:24:232:968#0/1  
^ba^b\_ab`¥\_bbabaaabaa`baaWa\_YW\_b\_Vaab`aa  
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+HWI-EAS443:3:24:241:1161#0/1  
a[U^\_R``\_¥X`aa\_]YN[``X`¥X¥VY`a]¥QRT[^`\_^  
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+HWI-EAS443:3:24:376:1773#0/1  
]]]^Uaaa``¥\_\_\_W\_aaVa`a\_a\_]`^X\_\_\_a^]a^\_`  
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+HWI-EAS443:3:24:489:1394#0/1  
a\_\_``U^`^TOTS\_a``XX[``Y\_\_`[V[``]¥^]a\_U\_Y¥^

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ATGACTTTGAAAGGAAGGGTACTCACTGGTCGGGATAGA  
+HWI-EAS443:3:24:593:1206#0/1  
[aX]a`\_ba^ba^Z]V\_a\_XS]a)`a¥¥¥W]^^[\_^`]]  
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TGCTGTTGCATCTTCGCCATTGTTTGCTTGGCGCCAAACT  
+HWI-EAS443:3:24:640:167#0/1  
a`a`a]a\_aa]X[\_^X[``aaaZ``UX^\_\_`\_\_\_\_S\_]^[  
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+HWI-EAS443:3:24:653:1783#0/1  
^`\_VaaXYW]]Ta\_^^^`\_^^\_YY]WQV^U\_X]N]X¥YXYX  
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+HWI-EAS443:3:24:660:1343#0/1  
W[b\_¥W[TTN[aY^[]J\_]SS^\_aba[MZOV^WITaaV]M  
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a`\_a]Z]¥\_`]^\_`\_]b\_a^aaa]¥^^a]a\_]\_Ya[V\_\_  
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+HWI-EAS443:3:24:792:131#0/1  
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abbbbaabbb`^^`bbbaaaaa¥X\_a`aa]\_`a\_a`[NZ¥\_  
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+HWI-EAS443:3:24:814:97#0/1  
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+HWI-EAS443:3:24:957:1095#0/1  
a]¥]bb\_aab`b`b`aaa^\_a¥aaaaaaa\_`^`\_\_aZaW¥  
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+HWI-EAS443:3:24:99:1334#0/1  
aba`aba^^``aa``YX¥abaaaa]`aa```Saab]aa\_  
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ATGGGTCCTCCTGTTTTCTTAGGGTCCTTCCCAGCACTGG  
+HWI-EAS443:3:25:1002:1046#0/1  
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@HWI-EAS443:3:25:1118:1041#0/1  
CTCCTGTTTTCTTAGGGTCCTTCCCAGCACTGGGATGCTC  
+HWI-EAS443:3:25:1118:1041#0/1  
a`ab``W[abaa`\_¥\_a^^`baba`¥X`bba`ab]ab]a\_  
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CAGCACTCATTCTGAGGGGATCAGTTGCACATAAATCCTG  
+HWI-EAS443:3:25:1176:561#0/1  
a¥\_\_\_\_`baabbbbabbb¥a\_b]\_aabbb`\_a[aaaa^\_b\_b  
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CAGAGGGCAATGATGGATCAAGTAAGAGAAAGTCGAAACC  
+HWI-EAS443:3:25:1192:2039#0/1  
HY\_Xb¥¥¥`ba`b\_bZ`T^`ab]ababbb[baT]\_`¥¥\_[  
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GAGCATCCCAGTGCTGGGAAGGACCCTAAGAAAACAGGAG  
+HWI-EAS443:3:25:1205:1465#0/1  
\_RLV^`aZQY[VWT¥aba^]]¥TQRZWZ]^TQSVY[ZSZ[  
@HWI-EAS443:3:25:1235:789#0/1  
GTTGCTTATGAAAGAATGTGCAATATCCTCAAAGGAAAAT  
+HWI-EAS443:3:25:1235:789#0/1  
a]^\_WW\_]\_]S\_^W^]U`PZ]]][W[Y[¥][[]S[W  
@HWI-EAS443:3:25:1298:1526#0/1  
GCTTTCTGCTTTTGATGAGAGAAGAAATAAATACCTAGAA  
+HWI-EAS443:3:25:1298:1526#0/1  
a^`a\_\_\_\_]``^`aW`[WWY`^][W`\_^`\_¥\_XV]`\_Z\_  
@HWI-EAS443:3:25:1368:148#0/1  
CCCTTGTCCTTCGTCATTTTCACCCCTCCAGAAATTCG  
+HWI-EAS443:3:25:1368:148#0/1  
ab[b\_ba`\_aa`bYH\_aab\_\_Ya[[UPaGUZa¥]\_\_``]  
@HWI-EAS443:3:25:1412:1373#0/1  
CACATTCTGGGATCCATTCCGGTGCGAACAAGCGCTCTTG  
+HWI-EAS443:3:25:1412:1373#0/1  
[bb[bbbbbb[bbab`[b[\_Ib`Yb[a\_a`V`[\_^^aV`ab

@HWI-EAS443:3:25:147:767#0/1  
TCCTGGGTTTCGACTTTCTTACTTGATCCATCATTGCC  
+HWI-EAS443:3:25:147:767#0/1  
abaabbb\_bbbba`aaaabaaaa\_aaa`aaaaaaaa\_aa\_  
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GCACATTCTTTCATAAGCAACCCTTGCCTTCGTCCATTT  
+HWI-EAS443:3:25:153:597#0/1  
aaa\_`a`a^Y]aa^`\_]a\_\_\_^`^`\_[\_]`\_]^`^^^  
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AGAATCTCCCGATTCCACCAATCATTCTCCGACAGATGC  
+HWI-EAS443:3:25:157:383#0/1  
aaaaaa^aa`\_L]`\_`\_\_\_`\_`\_ZX^`\_`\_WV^¥^UZWWW  
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+HWI-EAS443:3:25:1782:1586#0/1  
^`bb`bVvabba¥ISSbba`b^\_ISW`S`Ubbab]¥^  
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+HWI-EAS443:3:25:180:1490#0/1  
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+HWI-EAS443:3:25:240:993#0/1  
aa]a^aa`]`Q]`RS`\_]`^¥¥¥^PQU]S^¥Z^SSP¥RMU  
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GACTTTGAAAGGAAGGGTACTCACTGGTCGGGATAGACC  
+HWI-EAS443:3:25:335:1873#0/1  
`a`\_\_\_^\_\_U\_\_[]\_¥]RHX]R\_\_^XXKIX]XX]X^UYXX  
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a^abababbbbaabbbbbbbaa\_babbbb`aaaaaaaaab\_a  
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CCTCTCTATTGTTATGCTATTCTGGATTAGTCGTCCATCA  
+HWI-EAS443:3:25:450:44#0/1  
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@HWI-EAS443:3:25:518:228#0/1  
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+HWI-EAS443:3:25:518:228#0/1  
`bba`aa[baabb`aa[b``]a\_Y\_a`^a^aXMU`¥^`¥^  
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ATTTGGATGTAGAATCTCCCGATTCCACCAATCATTCTTC  
+HWI-EAS443:3:25:630:319#0/1  
abbaabbabaababaaaaaa]``aaaa`^^^]\_\_\_\_  
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+HWI-EAS443:3:25:714:1266#0/1  
ab`^bbabbbbababbbb\_abaabbbabbbb`b][^bab  
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TAACAATAGAGAGGATGGTGCTTTCTGCTTTTGATGAGAG  
+HWI-EAS443:3:25:745:1838#0/1  
a`^^`Z)`^baa^a\_`PD[NY]`¥\_]ZZ^\_]QVW[TT`¥  
@HWI-EAS443:3:25:78:243#0/1  
ACTCCTTTCACCGCAGCACCTGCGGCACCAGACCTTCTGG  
+HWI-EAS443:3:25:78:243#0/1  
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+HWI-EAS443:3:25:794:416#0/1  
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+HWI-EAS443:3:25:810:1660#0/1  
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GAGAGGATGGTGCTTTCTGCTTTTGATGAGAGAAGAAATA  
+HWI-EAS443:3:25:834:1476#0/1  
a`]OSTNRYZOW\_\_\_\_[OP¥\_\_a]RZ[[V\_RZVXU^Y]S]  
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AACACTTCCCAGAAGGTCTGGTGCCGCAGGTGCTGCGGTG  
+HWI-EAS443:3:25:848:294#0/1  
abbbbbbbbab]b` `Zabaa\_baaaZ¥a\_U^T[ `W` ¥FR  
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+HWI-EAS443:3:25:85:1576#0/1  
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abb]bbbbbbabbbbabbaaaaabab`aaababa`aa\_a  
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+HWI-EAS443:3:25:91:1173#0/1  
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+HWI-EAS443:3:25:942:1314#0/1  
`S` `^ [Y[Y`a\_TU¥R\_`U[SYRYLFLQ[WT^[[¥WWSJS  
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aXa[aW0][WPHW]^Q[^`U^P¥]\_[WQLV¥VYFO^WHKT  
@HWI-EAS443:3:26:100:494#0/1  
TGTTTTCTTAGGGTCTTCCCAGCACTGGGATGCTCTTCT  
+HWI-EAS443:3:26:100:494#0/1  
^ba^`^babbaab[b\_^Y`¥`\_]Zaa[aZ`¥[aaa`a]` `



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GACAAGGGTTGCTTATGAAAGAATGTGCAATATCCTCAAA  
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a`W¥\_`]^\_aba^¥Ysa^aaa`\_\_]a]¥^`a^Z[`\_\_\_Z  
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GACTTTCTTACTTGATCCATCATTGCCCTCTGGGCAGC  
+HWI-EAS443:3:26:1280:1359#0/1  
aaaaaa`a\_aaa`\_aaaa^\_aaa`a\_`^`^`[a\_\_\_Y`X`\_V  
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aa]RPZYRXZ¥Sa[[a`USaU\_\_\_X\_]U\_[\_]XU\_XLTU^  
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+HWI-EAS443:3:26:1409:773#0/1  
abbbabaaabb`^`b`U^baaabb``abb\_bbaaa`\_a\_`  
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+HWI-EAS443:3:26:1495:639#0/1  
a`Y`]`V]\_`a\_`H\_]U\_WZW\_[`aaa\_¥`^a[`Z`^W¥  
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+HWI-EAS443:3:26:166:1898#0/1  
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+HWI-EAS443:3:26:219:938#0/1  
Vaba\_\_bb\_`¥X\_`b\_`b\_aa`]]^a¥¥a^`aaa\_¥abba  
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GACTTTGAAAGGAAGGGTACTCACTGGTCCGGGATAGACC  
+HWI-EAS443:3:26:366:1374#0/1  
ababaab\_\_`U`a`\_]`Ra\_aaa```\_X\_\_^`\_`^a¥¥]^  
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GCAGGTCTTACTCATATCATGATTTGGCATTCCAACCTGA  
+HWI-EAS443:3:26:496:1025#0/1  
aa^]X0[Z^`¥V^ZW`]aab^^a`[aaa`]S\_R`Z[`WX¥  
@HWI-EAS443:3:26:77:289#0/1  
CTAATCCAGAATAGCATAACAATAGAGAGGATGGTGCTTT  
+HWI-EAS443:3:26:77:289#0/1  
aaaaaaaa`^TXa\_\_a`[[a]^`\_\_`a\_\_]\_Z\_]0[Y¥]]  
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+HWI-EAS443:3:26:885:347#0/1  
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a\_baaba\_b`babaa\_ba\_a\_aaaaa`aaaaaaaaZL\_aa  
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+HWI-EAS443:3:26:976:1231#0/1  
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+HWI-EAS443:3:27:1116:1775#0/1  
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+HWI-EAS443:3:27:1423:725#0/1  
^\_^`W[b`Z¥^^TFW`\_`^`^`\_`TZa[`^aa^Z[aaZ\_]S`  
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aaa`^aaa`aa]^^\_aaa]`^`\_][¥VZU`a\_a`a`a]]a^  
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a^Qb]¥]ZS^Z\_Z¥`^HZVW\_¥¥G¥W\_]VDKGR¥NWUWWY  
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+HWI-EAS443:3:27:1641:1699#0/1  
a``bbb^`ab`¥`\_a\_0¥a`Z\_b[baPaaa\_`aaaaa`^]  
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0]¥\_\_¥^aaa^XW\_a`¥`\_W\_bba\_\_^]`a`]\_`b^^`¥Z  
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+HWI-EAS443:3:27:322:664#0/1  
\_¥`\_`[\_aaaaa`S\_[ba\_aa`U[aa^]`\_`[YZLZ^[\_  
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+HWI-EAS443:3:27:381:2039#0/1  
abbaaa\_a^aZ`^`SZ`aT`a`a]^a`aa\_`^`\_W^^`0\_]`  
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GAATGATTGGTGAATCGGGAGATTCTACATCCAAATGTG  
+HWI-EAS443:3:27:434:407#0/1  
¥VaVTOV``]````]M\_RFUS`ZZT¥`T`ZQ[aY^¥Y\_[  
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+HWI-EAS443:3:27:513:550#0/1  
\_a^\_bbbbbbb`\_`abba`abababbbababbbb`bbaaa  
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+HWI-EAS443:3:27:639:482#0/1  
aaaa`aa\_aaa`aaaaa``aa`aa\_aaaa`a\_a\_aa^Za  
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+HWI-EAS443:3:27:647:125#0/1  
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+HWI-EAS443:3:27:72:1782#0/1  
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+HWI-EAS443:3:27:746:1840#0/1  
¥X`´YUa¥^`^`[^`^`][S[V]¥a`´\_a^\_\_aV\_a\_VT^a  
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+HWI-EAS443:3:27:966:1453#0/1  
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+HWI-EAS443:3:27:995:1553#0/1  
a`a[abaIUa`´a\_a`\_a\_]\_`X\_a\_TSa\_Ya\_aaZ¥G\_N  
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+HWI-EAS443:3:28:1116:463#0/1  
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+HWI-EAS443:3:28:1123:372#0/1  
ababbbbabba\_bbabbabbaabab`a\_\_a^a\_\_a^aa¥  
@HWI-EAS443:3:28:1139:353#0/1  
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+HWI-EAS443:3:28:1251:293#0/1  
a\_a\_^[\_ab`´´´\_\_`a¥¥ZVU`aG\_WZ\_´´`¥PS\_[S]QX  
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`[a¥]\_\_Z\_W`VTP\_]a\_W¥^ab[]Y]^`\_`XW[^`¥ZO  
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a^a^P[`aa\_`Z¥`a0\_¥\_[`\_`aa\_\_\_^U¥X\_Y\_^`[U^W  
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aaaaa\_b\_a\_^\_aa\_\_[Y]a^^a\_Ya[\_`\_a`ZY\_[W^]\_  
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+HWI-EAS443:3:29:1262:428#0/1  
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\_[]S]]\_`U\_^¥^]R[aX`SaWY\_[\_\_NRPSX]Z`XYYYB  
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+HWI-EAS443:3:29:1350:213#0/1  
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Vaa\_Z^[WaabT\_\_\_aa]a^YZZ\_\_`UMW¥PR]¥`^RQZS  
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`[]`\_`\_`[U¥aa¥^OUXVS¥`a^ZZ\_[WW\_HWT¥^aaaV  
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a`bba`a¥aa\_\_aa\_[a[aa`a\_\_\_\_]^`\_`\_\_\_\_^`\_  
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+HWI-EAS443:3:29:185:703#0/1  
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+HWI-EAS443:3:29:194:707#0/1  
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__]b¥baaa]Q_aaaa_]ba` ``_] [[]0]^^Ya_a__ [
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+HWI-EAS443:3:29:34:1277#0/1
````^a¥^` [a^`[\_^T\_R]YVZa\_aa^` `a^0¥]`` [[B  
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^¥]b\_X\_\_b`U`aaaaQb`a`baba`aaa]\_bab`\_`\_aa\_  
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+HWI-EAS443:3:29:701:1396#0/1  
`^WX\_a\_X]`b\_¥Z`^`\_\_XYa]XW^`\_UZ^` ``Y^Z¥[^  
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+HWI-EAS443:3:29:707:1454#0/1  
aa^¥b`ba\_\_baaaa`\_X]aVaa` `a\_Xa¥M`\_aZ`\_Y`\_`  
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Z\_a`^aVa]`^aaaV` `¥a]`\_a`\_]`a`^` `Za\_aXZ]^`  
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\_Ibabab` `a` `babbabb`b\_a`aba`aa`\_aaa¥Gaaa  
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+HWI-EAS443:3:2:1144:492#0/1  
^`\_[b^X\_ZaX` `\_\_`Yaaa]] [a]X`\_N¥^` `Z`^ [X^  
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\_X¥aba\_]abbZ`a` ¥ab\_QWaaa¥a^`^V\_Y` `` `] [\_aV  
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+HWI-EAS443:3:2:1350:1023#0/1  
a\_`X¥` `aa]\_a^^¥a^Z` `¥X` ¥^Sa^` ` `¥¥` `^V¥`

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aabb`Xaa`a]a]aaU^a\_]a`\_\_`\_]\_[UN[^¥\_T^¥B  
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^aa^^abaa[aaba^`a`bba``^ab\_ba`\_`baa\_aaa`  
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+HWI-EAS443:3:2:185:259#0/1  
a[a\_a]\_\_b\_aa`\_`\_a[\_W\_a\_\_\_S¥Z^]`^`a^U¥]`  
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+HWI-EAS443:3:2:526:303#0/1  
a`a^[aaa`\_a\_a]\_\_^\_\_^]¥^[]]X\_U[^YX^^ZPWXB  
@HWI-EAS443:3:2:542:1477#0/1  
TGGGTTTTCGACTTTCTTACTTGATCCATCATTGCCCTC  
+HWI-EAS443:3:2:542:1477#0/1  
aaa`[aa`ba^aaa\_a\_aa`¥aaaaa[\_a`\_a`Z\_ZXU\_W  
@HWI-EAS443:3:2:558:1721#0/1  
ATATCCTCAAAGGAAAATTTCAAACAGCTGCCAGAGGGC  
+HWI-EAS443:3:2:558:1721#0/1  
a\_]a\_H\_Sa\_aaaa\_^Wa\_`\_`\_^`WX`^¥V]aS\_^`0  
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CGCCAAGCAAACAATGGCGAAGATGCAACAGCAGGTCTTA  
+HWI-EAS443:3:2:699:403#0/1  
abaY^`ba`^ba`ZX\_a`\_Sa`]ZVZ[aY\_\_\_X]]Z\_  
@HWI-EAS443:3:2:706:686#0/1  
TGGACGACTAATCCAGAATAGCATAACAATAGAGAGGATG  
+HWI-EAS443:3:2:706:686#0/1  
`baa`baaaaaa^aa`]a`b`aa`a\_a`\_\_`]\_`a]^\_\_  
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ATGCCACATATCAGAGAACAAGAGCGCTTGTTCCGACCCGG  
+HWI-EAS443:3:2:716:1870#0/1  
aaaa[aa\_\_aa`a`aa`a\_\_`aa\_]¥¥\_]`¥\_Z]\_^Y¥¥\_  
@HWI-EAS443:3:2:738:575#0/1  
CTGGAGGGGTGAAAATGGACGAAGGACAAGGGTTGCTTAT  
+HWI-EAS443:3:2:738:575#0/1  
abbb\_`bbb^a\_aa`bbaa`ba\_ba\_`a\_a`^`^\_a\_a``a  
@HWI-EAS443:3:2:855:522#0/1  
GTGCTTTCTGCTTTTGTATGAGAGAAGAAATAAATACCTAG  
+HWI-EAS443:3:2:855:522#0/1  
aXZSQ¥]^¥[G^¥\_\_]V`\_P]U\_WTVW^¥]^¥[V]]UVY`\_  
@HWI-EAS443:3:2:931:1667#0/1  
GGTCCTCCTGTTTTCTTAGGGTCCTTCCCAGCACTGGGAT  
+HWI-EAS443:3:2:931:1667#0/1  
ab^]YZb`aa[aMa\_a]`baaHa`\_\_\_\_a`^`]\_^a^V^]  
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AATCCAGAATAGCATAACAATAGAGAGGATGGTGCTTTCT  
+HWI-EAS443:3:2:957:955#0/1  
\_aaaaab^aabba`bab`a`bab\_babaaaa`Y][¥[aX\_  
@HWI-EAS443:3:2:985:163#0/1  
GGGTCCTCCTGTTTTCTTAGGGTCCTTCCCAGCACTGGGA  
+HWI-EAS443:3:2:985:163#0/1  
aa¥IV``¥`ab^a]a`^aT\_P^¥a``]¥RY¥`XU^^XX`¥  
@HWI-EAS443:3:30:1015:1270#0/1  
GGCTTGCACTAGCAAGTGGGCATGACTTTGAAAGGGAAGG  
+HWI-EAS443:3:30:1015:1270#0/1  
Za\_oQT\_[ZRV`XZZYMSR\_^]]`aa`a]]V\_Sb][UQ^a

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+HWI-EAS443:3:30:1082:1141#0/1  
`a`a`aaaaaaaaaaaa`aa`aaa`a\_\_\_a`Y^`^\_  
@HWI-EAS443:3:30:1129:1391#0/1  
AGAGAGGATGGTGCTTTCTGCTTTTGATGAGAGAAGAAAT  
+HWI-EAS443:3:30:1129:1391#0/1  
ab]`aaa^ab]Y¥``baaa[]`ab^LPa^WaZ`^Y]Wa`^  
@HWI-EAS443:3:30:1194:1436#0/1  
GGGATCAGTTGCACATAAATCCTGCCTGCCTGCTTGTGT  
+HWI-EAS443:3:30:1194:1436#0/1  
H\_aWa^VY¥¥[bb```a`Z¥^\_\_]`b``ba`\_a]bVb\_  
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GTGGAATCGGGAGATTCTACATCCAAATGTGCACTGAACT  
+HWI-EAS443:3:30:1364:390#0/1  
a¥U``\_ZW`aa\_aX^WYY\_[Y\_U]\_\_]\_\_N¥R^PY\_ZRHZ  
@HWI-EAS443:3:30:1381:1324#0/1  
CATAATCACTGAGTTTGAGTTCAGTGCACATTTGGATGTA  
+HWI-EAS443:3:30:1381:1324#0/1  
aabbabaaaba\_^]aaaa\_aa`^¥a¥a```aa^V\_Z[QZ  
@HWI-EAS443:3:30:1388:899#0/1  
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+HWI-EAS443:3:30:1388:899#0/1  
]]Za]``aa^]Z¥`\_¥Y`X\_]¥QQTYY[V^^\_SVS[V\_XY  
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+HWI-EAS443:3:30:1405:558#0/1  
abbaaaaaaaaaaaaaabaa`aaaa\_aa^`b```\_¥aUa  
@HWI-EAS443:3:30:1455:892#0/1  
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+HWI-EAS443:3:30:1455:892#0/1  
]`b^W¥¥Rab`aababSb\_aZ¥W¥S[VaS¥[U]aZZaa`b  
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+HWI-EAS443:3:30:1551:1058#0/1  
aabb`bbbbbabb^F]abbabaababaaaaaaaa`^Za\_  
@HWI-EAS443:3:30:1552:1022#0/1  
ATTCAGGTTGGAATGCCAAATCATGATATGAGTAAGACCT  
+HWI-EAS443:3:30:1552:1022#0/1  
aaa\_\_`b\_aab\_\_\_aaa`a^```aa`a`aa\_a]`\_\_\_WU^  
@HWI-EAS443:3:30:1570:14#0/1  
CATTGCCCTCTGGGCAGCTGTTTCAAATTTTCCTTTGAGG  
+HWI-EAS443:3:30:1570:14#0/1  
aa`bb```^`¥`a`[\_baa`]\_¥Y\_babbb`\_`b``YSZa  
@HWI-EAS443:3:30:1579:328#0/1  
AGAAGGTCTGGTGCCGAGGTGCTGCGGTGAAAGGAGTTG  
+HWI-EAS443:3:30:1579:328#0/1  
ab\_bba`bbabXb^a`\_aaaZ]W^aYa`H¥V\_\_\_\_HYNV\_  
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GAAGAAATAAATACCTAGAAGAGCATCCCAGTGCTGGGAA



@HWI-EAS443:3:30:678:970#0/1  
CGACTTTCTTACTTGATCCATCATTGCCCTCTGGGCAG  
+HWI-EAS443:3:30:678:970#0/1  
abaaaabaabaaaaaaaa`a`]]^`a\_a`\_¥^W^U  
@HWI-EAS443:3:30:732:499#0/1  
TGCTTTCTGCTTTTGATGAGAGAAGAAATAAATACCTAGA  
+HWI-EAS443:3:30:732:499#0/1  
¥\_TQU¥Ua]SWVQW¥`aV¥YSZU¥\_YF]ZS[ZTYQT^^X  
@HWI-EAS443:3:30:782:1025#0/1  
AATTTTCTTTGAGGATATTGCACATTCTTTCATAAGCAA  
+HWI-EAS443:3:30:782:1025#0/1  
`]aaaaaaaaa\_\_\_\_\_`\_]\_¥`Y`\_a^`\_`\_\_^V^\_S]\_  
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+HWI-EAS443:3:30:838:101#0/1  
abb¥aa`ba\_aaabb`a`\_b^aa¥\_a`\_]aaR\_]¥¥\_\_  
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+HWI-EAS443:3:30:951:216#0/1  
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+HWI-EAS443:3:31:1039:58#0/1  
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@HWI-EAS443:3:31:1093:1168#0/1  
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+HWI-EAS443:3:31:1093:1168#0/1  
\_XUbbaaab^)]abaaaaa`a`a\_aaaaaaaaaa^\_a\_  
@HWI-EAS443:3:31:1115:1864#0/1  
AATGATTGGTGAATCGGGAGATTCTACATCCAAATGTGC  
+HWI-EAS443:3:31:1115:1864#0/1  
a]aabX`\_]PUaa`aa`Z^\_]\_a``\_\_\_Z```\_`^W¥X  
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GGGCATGACTTTGAAAGGAAGGGTACTCACTGGTCGGGA  
+HWI-EAS443:3:31:118:915#0/1  
ZX`\_\_`babba¥a[\_baa`a``]a\_ababbbaaa^b`\_]`  
@HWI-EAS443:3:31:1319:437#0/1  
CTTCCGACAGATGCTCTGATTTCTGTGGCATCCTGGCGCT  
+HWI-EAS443:3:31:1319:437#0/1  
```¥]a\_\_^]Q¥`\_R\_^bb\_\_[SZb`^^^bTVES\_VBBBB  
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CTGTCCGAAGAATGATTGGTGAATCGGGAGATTCTACAT
+HWI-EAS443:3:31:14:80#0/1
abbabba_bbbabaabab_aaaaa_bb`aaa_]aa``
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+HWI-EAS443:3:31:1583:930#0/1
abb`bbbbbb`ba`ab``Z¥aaaUZaab__ab`V`bW`
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+HWI-EAS443:3:31:1661:818#0/1
abbaa^aaX`a`_aQ[___Z_Saa^^¥_U`aW¥¥^WIW[UW
@HWI-EAS443:3:31:1668:861#0/1
GAGAAGAAATAAATACCTAGAAGAGCATCCCAGTGCTGGG
+HWI-EAS443:3:31:1668:861#0/1
abbbbaaaaaabaaa_baa_aaaa_aa]`^aa_a]`aaX
@HWI-EAS443:3:31:1674:344#0/1
CTGGGTTTCGACTTTCTTACTTGATCCATCATTGCCCT
+HWI-EAS443:3:31:1674:344#0/1
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+HWI-EAS443:3:31:1771:1287#0/1
a`bbbbbb]bb`aabbba`Y_a`_`aab`bbba¥ab``a
@HWI-EAS443:3:31:22:1578#0/1
TCCTGTTTTCTTAGGGTCCTTCCCAGCACTGGGATGCTCT
+HWI-EAS443:3:31:22:1578#0/1
Y¥¥¥¥Va`[aZaa_¥PH]]`R¥HQROYJSBBBBBBBBBBB
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CAGCAGGTCTTACTCATATCATGATTTGGCATTCCAACCT
+HWI-EAS443:3:31:238:826#0/1
a`]aV]`_`_aab_¥Z^Uaa`a_J]____`aa_¥^__Ta¥^
@HWI-EAS443:3:31:242:1237#0/1
ATCCATTCCGGTGCGAACAAGCGCTCTTGTTCTCTGATAT
+HWI-EAS443:3:31:242:1237#0/1
^¥_b`aaa^ZQK]aa]¥aaa^¥^`¥^S¥YZ_`_¥¥[UYNS
@HWI-EAS443:3:31:266:1650#0/1
TGGGTTTCGACTTTCTTACTTGATCCATCATTGCCCTC
+HWI-EAS443:3:31:266:1650#0/1
aa`_¥aaba``aaababaaaaaa__aaaaaa`a]^aaa__
@HWI-EAS443:3:31:279:242#0/1
ACAATAGAGAGGATGGTGCTTTCTGCTTTTGATGAGAGAA
+HWI-EAS443:3:31:279:242#0/1
aaaaaa^^a¥aaa^a]Za`_`_][Z¥^_``V[]_Z^][X¥
@HWI-EAS443:3:31:341:119#0/1
GCATAACAATAGAGAGGATGGTGCTTTCTGCTTTTGATGA
+HWI-EAS443:3:31:341:119#0/1
_[R^_aPP_^]¥]_YWUQW`^SXS[V[OJLQGOXXXMMRY
@HWI-EAS443:3:31:35:1771#0/1
TATGAAAGAATGTGCAATATCCTCAAAGGAAAATTTCAAA
+HWI-EAS443:3:31:35:1771#0/1
``]^_V¥_`^`_`_`a``aaaa```]_`^`_¥_a_a`__
@HWI-EAS443:3:31:391:1549#0/1
GCTTTCTGCTTTTGATGAGAGAAGAAATAAATACCTAGAA
+HWI-EAS443:3:31:391:1549#0/1
abbb`a`bbaaaaa]_a]`a_a_¥]a``Ya[`aa`_a`^]
@HWI-EAS443:3:31:539:639#0/1
GAGGATGGTGCTTTCTGCTTTTGATGAGAGAAGAAATAAA
+HWI-EAS443:3:31:539:639#0/1
a]^_aa¥XNZZa`a`]_````]```a`]]]]_]`[[a][]`

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+HWI-EAS443:3:31:615:395#0/1
[babbbaaabaaaa¥aa_ab`aaaaaa[a_a_Va`SY¥a^
@HWI-EAS443:3:31:652:1568#0/1
GAATGATTGGTGAATCGGGAGATTCTACATCCAAATGTG
+HWI-EAS443:3:31:652:1568#0/1
`_Y¥`]]aaaW`aaa`aZ¥]_^`_a^`a^X][Yaa]XZ_
@HWI-EAS443:3:31:708:1601#0/1
CTCCTGTTTTCTTAGGGTCCTTCCCAGCACTGGGATGCTC
+HWI-EAS443:3:31:708:1601#0/1
abbbbabbbbbbbaa[abbbabbab_bbaaa`aa_aaa`
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AGCAGGTCTTACTCATATCATGATTTGGCATTCCAACCTG
+HWI-EAS443:3:31:761:1957#0/1
aaab_ZOTXX^_QZ_Y`_]a`a]X_ZPa][X__a`a`]]
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GCAGTAGCAAGTGGGCATGACTTTGAAAGGGAAGGGTACT
+HWI-EAS443:3:31:770:1705#0/1
`bb^]b`b_b__Y_[aa`aaa`aa__a`^¥^^__Z_W¥_]`
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CTTCAATCTCAGCGTTTCCTGGGTTTCGACTTTCTCTTAC
+HWI-EAS443:3:31:79:473#0/1
aab``_bbabY^[b_ab``Z]__Q`aaa_a`_]aaaa`Y
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GTAATTTGAATGGGTCTATCCCGACCAGTGAGTACCCTTC
+HWI-EAS443:3:31:805:510#0/1
aY_V_U]UX_Va_SQV¥YUaZ]]_¥Z^_U]]TSVTV]UQQ
@HWI-EAS443:3:31:814:1038#0/1
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+HWI-EAS443:3:31:814:1038#0/1
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@HWI-EAS443:3:31:821:1303#0/1
ACCATCCTCTCTATTGTTATGCTATTCTGGATTAGTCGTC
+HWI-EAS443:3:31:821:1303#0/1
aba^Ra`]a]baba````^a]aaaY_¥`_Y¥`aaW`]Z_
@HWI-EAS443:3:31:831:839#0/1
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+HWI-EAS443:3:31:831:839#0/1
a¥b_b^`abbbb_babbb`aaaba][^`bXb_b_PZ^]aa
@HWI-EAS443:3:31:842:1047#0/1
GTCCTCCTGTTTTCTTAGGGTCCTTCCCAGCACTGGGATG
+HWI-EAS443:3:31:842:1047#0/1
a]aaaaaaaa_aaaaaa_a^aa```aa]``^`_`____]^`
@HWI-EAS443:3:31:865:52#0/1
GGGTCCTCCTGTTTTCTTAGGGTCCTTCCCAGCACTGGGA
+HWI-EAS443:3:31:865:52#0/1
_¥_W^`a`[b]]¥_`^`]^`¥__[¥RY¥U¥^````Za]Z`N
@HWI-EAS443:3:31:938:861#0/1
AAAATGGACGAAGGACAAGGGTTGCTTATGAAAGAATGTG

+HWI-EAS443:3:31:938:861#0/1
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@HWI-EAS443:3:32:1073:632#0/1
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+HWI-EAS443:3:32:1073:632#0/1
a`UT¥W_`ba¥_aa_`aa`¥Y`[¥JTY^W^`P¥[_S^Y^`
@HWI-EAS443:3:32:1088:1549#0/1
CACCATCCTCTCTATTGTTATGCTATTCTGGATTAGTCGT
+HWI-EAS443:3:32:1088:1549#0/1
`b_bbb]ab]^aa`aab_aa¥``aaa_a`a__a]_T_aa^
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+HWI-EAS443:3:32:1153:95#0/1
a`a`b`^bbaa`a`a`Zaa`_X_]`^`_X^^GNa^]Z_`
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CACATATCAGAGAACAAGAGCGCTTGTTCCGCACCGGAATG
+HWI-EAS443:3:32:1254:279#0/1
a__aa`a`[Z``__^^__TZS_¥¥^`¥ZT¥W¥¥T^U_¥Q^
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GAAAGAATGTGCAATATCCTCAAAGGAAAATTTCAAACAG
+HWI-EAS443:3:32:1532:268#0/1
[S¥aaa``^a__`a_^ZT`P_^[]`aa_N__`0_VXUaa
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`_T`aaaaaaaXaa^¥_aa`a`aW¥__SX¥^_N`^N^BB
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@HWI-EAS443:3:32:1609:416#0/1
TGCTTATGAAAGAATGTGCAATATCCTCAAAGGAAAATTT
+HWI-EAS443:3:32:1609:416#0/1
¥_TX`V_W^YZa]Z]bZaZa`bb¥PYa¥a]]_b_aabb``
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+HWI-EAS443:3:32:1648:582#0/1
a``aaabaabba`¥a^]¥babaaa`a_a^bab_b_abb`
@HWI-EAS443:3:32:1673:272#0/1
GAAAGAATGTGCAATATCCTCAAAGGAAAATTTCAAACAG
+HWI-EAS443:3:32:1673:272#0/1
¥Z_XXNWS_GY]X_]V_¥HRY_]XZHYY]]¥KWO¥F¥_
@HWI-EAS443:3:32:1719:837#0/1
AGGTTCAACACTTCCCAGAAGGTCTGGTGCCGCAGGTGCT
+HWI-EAS443:3:32:1719:837#0/1
aabSb`bb`a]baaa^Xa]a`bWS_`a``U^`^UbKH¥_a

@HWI-EAS443:3:32:216:1287#0/1
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+HWI-EAS443:3:32:216:1287#0/1
R^abbaabb`a]`aaa_]V]`aa]`^a]aaaa`a¥KNaZZ
@HWI-EAS443:3:32:28:389#0/1
GTGCTGACCGTGCCAGGAAAATGAGGTCTTCAATCTCAGC
+HWI-EAS443:3:32:28:389#0/1
`abbbaabba_a^YM[^M^`a___aVR`_a^Z]_]`_[Z_
@HWI-EAS443:3:32:290:1643#0/1
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+HWI-EAS443:3:32:290:1643#0/1
`a_aaba__aY^^]_]S]_[^]^[W_X^_]PZ]^U¥TPR
@HWI-EAS443:3:32:388:1128#0/1
CCCTTGCTCCTTCGTCCATTTTCACCCCTCCAGAAATTCG
+HWI-EAS443:3:32:388:1128#0/1
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GGCATGACTTTGAAAGGGAAGGGTACTCACTGGTCGGGAT
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GATAGACCCATTCAAATTACTCCAAAACAGCCAAGTGGTC
+HWI-EAS443:3:32:419:714#0/1
Z_U`_a_b`Y_^b`]Y[]^`aaa_R¥¥`_Y^aa`_U`ZW]
@HWI-EAS443:3:32:420:1423#0/1
CTGAGTTTGAGTTCAGTGCACATTTGGATGTAGAATCTCC
+HWI-EAS443:3:32:420:1423#0/1
a_Z]a_aa`_a^a^LX^a`````_____a^_]`Y^a^a]___
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TGGGCATGACTTTGAAAGGGAAGGGTACTCACTGGTCGGG
+HWI-EAS443:3:32:536:892#0/1
P¥^aa^UT]_]_QVfU`W`_TY`R__^U`¥X`[U`TST
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TTCCTGGGTTTCGACTTTCTTACTTGATCCATCATTGC
+HWI-EAS443:3:32:727:437#0/1
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TTCCCTTTCAAAGTCATGCCACTTGCTACTGCAAGCCCA
+HWI-EAS443:3:32:737:542#0/1
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+HWI-EAS443:3:32:764:900#0/1
aabaaaa]b^a__a`_a_Ia¥^aa^^X¥_a`_[N^RHYO¥
@HWI-EAS443:3:32:79:1233#0/1
GGTAAAATGGACGAAGGACAAGGGTTGCTTATGAAAGAA
+HWI-EAS443:3:32:79:1233#0/1
``[a]aaaa`]aa`a``````__^_Z^`____``]]¥IVTN
@HWI-EAS443:3:32:882:57#0/1
GGCATGACTTTGAAAGGGAAGGGTACTCACTGGTCGGGAT

+HWI-EAS443:3:32:882:57#0/1
aa`[[`X]Xa_aXXY`____ZQ]RLZV[_^VZ_¥UZU[VVT
@HWI-EAS443:3:32:968:1373#0/1
ATCATAATCACTGAGTTTGAGTTCAGTGCACATTTGGATG
+HWI-EAS443:3:32:968:1373#0/1
`a^_abb`a[`¥`aWa`a_SP[a`_XHUY]aa__^Y`__
@HWI-EAS443:3:33:1001:821#0/1
CACATTCTTTCATAAGCAACCCTTGCCTTCGTCCATTTT
+HWI-EAS443:3:33:1001:821#0/1
^^`Ua`_b`bbbaX^`_bb`]`b_V¥]_bb`Ya[Y]aa_
@HWI-EAS443:3:33:1011:1312#0/1
ATAACAATAGAGAGGATGGTGCCTTCTGCTTTTGATGAGA
+HWI-EAS443:3:33:1011:1312#0/1
ababba`^`aba`_`a_aa_]`aa`_`aaa`_]¥Z^`W
@HWI-EAS443:3:33:1081:1427#0/1
GGAAGAATGATTGGTGAATCGGGAGATTCTACATCCAAA
+HWI-EAS443:3:33:1081:1427#0/1
aaaaaaaaaaaaa`Y`a`aa`^`^`__^`_U_^]Z`__^`
@HWI-EAS443:3:33:1113:522#0/1
GTGCTTTCTGCTTTTGATGAGAGAAGAAATAAATACCTAG
+HWI-EAS443:3:33:1113:522#0/1
_HYQXaX_R]LZ`^Z]YM^[WQ`SR`RQY]`_KPKS[X__
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ATCCAGAATAGCATAACAATAGAGAGGATGGTGCCTTCTG
+HWI-EAS443:3:33:1161:1317#0/1
a¥aYTWa`^^a`^aaaa`X`_`a__V][^XPPXU^XUZQ
@HWI-EAS443:3:33:1253:1221#0/1
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+HWI-EAS443:3:33:1253:1221#0/1
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@HWI-EAS443:3:33:1309:1544#0/1
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+HWI-EAS443:3:33:1309:1544#0/1
a^^abbab_X]_]`aa]YZ[_Z[a]`a`[_W¥PU¥Y__
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GTCCGAAGAATGATTGGTGAATCGGGAGATTCTACATCC
+HWI-EAS443:3:33:1391:789#0/1
Uaab^a¥aaa]WX0¥JWaa¥X`^a`]``YYVG[]TX]WN
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+HWI-EAS443:3:33:1427:1133#0/1
aaaaaaaa`_ab]a_aa`aaa^^`_]P`^^`__¥_]`^W`¥
@HWI-EAS443:3:33:1459:53#0/1
GATTTATGTGCAACTGATCCCCTCAGAATGAGTGCTGACC
+HWI-EAS443:3:33:1459:53#0/1
aaa`aaa^[a[a`_`aa`_Y^`_`__aW¥a`^TW^PU[UPU
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GGGTCTCTCTGTTTCTTAGGGTCTTCCCAGCACTGGGA
+HWI-EAS443:3:33:1538:1380#0/1
a__IbSU_aaa^abaa¥Y_a`_`U^aa^a`^]_U_V`aV]T

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+HWI-EAS443:3:33:1608:1026#0/1
aa`W_`¥b_ba`aa`b`Sa`____[a]a[^GU[_[RT^
@HWI-EAS443:3:33:197:773#0/1
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+HWI-EAS443:3:33:197:773#0/1
ababbaaaaa_baaaabaa_aa_aaa_``_a_Y^aW_^`R
@HWI-EAS443:3:33:208:427#0/1
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+HWI-EAS443:3:33:208:427#0/1
aabY_^ZYVRT][^a[Xb^`VYa_a`_[QWNTWTL SHTZX
@HWI-EAS443:3:33:218:263#0/1
CGCTGAGATTGAAGACCTCATTTTCCTGGCACGGTCAGCA
+HWI-EAS443:3:33:218:263#0/1
aaba`_aaaaa_a`aaa`baaaaaa_a¥aa__^V¥ZZVU
@HWI-EAS443:3:33:240:342#0/1
CTAATCCAGAATAGCATAACAATAGAGAGGATGGTGCTTT
+HWI-EAS443:3:33:240:342#0/1
aVa`_a_aS`a[^X`_Z`a_]`^_`^`[]XPXWW][
@HWI-EAS443:3:33:247:1671#0/1
CCTCTCTATTGTTATGCTATTCTGGATTAGTCGCCATCA
+HWI-EAS443:3:33:247:1671#0/1
ab_baba^`a¥Waa`_baaa`a`_`_a`_aZ]`[]`____
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+HWI-EAS443:3:33:258:760#0/1
aXba_aaabaaaXa`b`Gaa`aa`a^^^aadW]_^]Y]¥
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+HWI-EAS443:3:33:282:1618#0/1
a`bbaaabY`__`_`_Y^aaa`_¥a`_a`¥_Z¥^¥¥
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+HWI-EAS443:3:33:339:872#0/1
W`bbaa_bbbbbbaaaabbbab`a`b`¥Z`b_G¥a`JTXVP
@HWI-EAS443:3:33:423:1848#0/1
GGCATGACTTTGAAAGGGAAGGGTACTCACTGGTCGGGAT
+HWI-EAS443:3:33:423:1848#0/1
``a[_abaabb_]b`aa`ab`aaSabab`a__^MZ`Z____
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TCATCAGGCTGACCACTTGGCTGTTTTGGAGTAATTTGAA
+HWI-EAS443:3:33:469:377#0/1
a`X^`__R_aa^`^`a^RYZUM`ZWTXFKHMMVXBBBB
@HWI-EAS443:3:33:565:1272#0/1
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+HWI-EAS443:3:33:565:1272#0/1
a_S`aa^X`_a_aa`a^a`Xaaaa`_`_`_[QT_¥^NP]]
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+HWI-EAS443:3:33:701:1255#0/1
`ba^abbaaaa`aaa^aaa`aa`^``_`^_a___aW
@HWI-EAS443:3:33:722:1590#0/1
CTGAGTTTGGAGTTCAGTGCACATTTGGATGTAGAATCTCC
+HWI-EAS443:3:33:722:1590#0/1
aaUV]PXa^^^`_^_Maa]`aY_a^Z`Z]TZQY^XXX¥X
@HWI-EAS443:3:33:724:119#0/1
GCAAACAATGGCGAAGATGCAACAGCAGGTCTTACTCATA
+HWI-EAS443:3:33:724:119#0/1
aabbbabaabbaaaaaa]a_aa`_`_`_`X¥[^W^¥^^^
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+HWI-EAS443:3:33:810:163#0/1
_bbbb`babba_abbbbabaaabbaaabaVaaaa_¥
@HWI-EAS443:3:33:830:1766#0/1
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+HWI-EAS443:3:33:830:1766#0/1
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@HWI-EAS443:3:33:92:140#0/1
GGTTTTCATTTGGTCTCATCAGGCTGACCACTTGGCTGTT
+HWI-EAS443:3:33:92:140#0/1
ab]RWI`^`aa¥^L¥_a_aa_V]a^^_a¥^_aX`BBBBB
@HWI-EAS443:3:33:97:861#0/1
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+HWI-EAS443:3:33:97:861#0/1
ab`_`¥ZWaabWR`aa_W`^^^^`b`[``a^[_`_`_]`
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GAGAGGATGGTCTTTCTGCTTTTGGATGAGAGAAGAAATA
+HWI-EAS443:3:34:1059:1012#0/1
a__¥Y][_a_Y_¥[___`_WP]`__Y]`^^Y_XT¥XU]VB
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+HWI-EAS443:3:34:105:2030#0/1
OOYa`b_¥W¥¥ab_a`¥^ba¥``[a`ba^`aabRRWQJW
@HWI-EAS443:3:34:1096:1704#0/1
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+HWI-EAS443:3:34:1096:1704#0/1
a`]`aabbbba]a__Naba]aaaaaa`a¥_aa__Y`N_
@HWI-EAS443:3:34:1100:1262#0/1
TGGACGACTAATCCAGAATAGCATAACAATAGAGAGGATG
+HWI-EAS443:3:34:1100:1262#0/1
S_Z_WUO_SWX`_]Y]0^XS_YUZXYZ[J^¥]P]RVU]¥B
@HWI-EAS443:3:34:1111:1620#0/1
CATAACAATAGAGAGGATGGTCTTTCTGCTTTTGGATGAG
+HWI-EAS443:3:34:1111:1620#0/1
`^T^`_U_a_^`a^`_]`^^Q]SY^[SVXVWSGXSFSL]
@HWI-EAS443:3:34:1123:241#0/1
ATGGTCTTTCTGCTTTTGGATGAGAGAAGAAATAAATACC
+HWI-EAS443:3:34:1123:241#0/1
[T¥YX¥[S]¥^SUU]¥```aa]aY^¥_`¥¥[[]]U¥BBBB

@HWI-EAS443:3:34:1189:234#0/1
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+HWI-EAS443:3:34:1189:234#0/1
U_`Y[b_``_bb`bb``[H[``bbb_aba``^ZX]`PW^W
@HWI-EAS443:3:34:1294:904#0/1
TGAAAATGGACGAAGGACAAGGGTTGCTTATGAAAGAATG
+HWI-EAS443:3:34:1294:904#0/1
``Z[L[^bb`a`_]¥^^a]P`_^N`bXa`Z_]XX[_]^Z^
@HWI-EAS443:3:34:1327:648#0/1
CCCTTGTCCTTCGTCCATTTTCACCCCTCCAGAAATTCG
+HWI-EAS443:3:34:1327:648#0/1
ababbb`aabaab`aaaabaaaa_`¥`^`a_`__^`]^U[
@HWI-EAS443:3:34:1405:1871#0/1
GCTGTTTTGGAGTAATTTGAATGGGTCTATCCCGACCAGT
+HWI-EAS443:3:34:1405:1871#0/1
]]O¥Q]UMNNVWJ[aX]P]PZTZ^]BBBBBBBBBBBBBBB
@HWI-EAS443:3:34:1428:577#0/1
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+HWI-EAS443:3:34:1428:577#0/1
aSWZaQYXTTZW`^L^RYRRFW`^PT`TSSJJ¥OGBBBBB
@HWI-EAS443:3:34:1438:62#0/1
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+HWI-EAS443:3:34:1438:62#0/1
aa]aaa`aaa[b^^aa^__^_RYO^X¥M[__^XPXXZBB
@HWI-EAS443:3:34:1687:775#0/1
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+HWI-EAS443:3:34:1687:775#0/1
Ta¥```¥ab`_ab_]_]a_^^b`^`bb`aT`b[¥]a_0_]`
@HWI-EAS443:3:34:1721:1270#0/1
CTGCGGTGAAAGGAGTTGGAACAATAGCAATGGAGTTAAT
+HWI-EAS443:3:34:1721:1270#0/1
abb`bb`bbbbbbababbbbaabaa`aaaaba`_a^_]X
@HWI-EAS443:3:34:239:1615#0/1
ATGACTTTGAAAGGAAGGGTACTCACTGGTCCGGGATAGA
+HWI-EAS443:3:34:239:1615#0/1
^T^_`_`UW¥][Y_ZZTQ¥V``]aa^T¥UR[WTZ^VTG^
@HWI-EAS443:3:34:260:1548#0/1
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+HWI-EAS443:3:34:260:1548#0/1
abaabbbabbbabbbbab`a`abaabbaaXaabbaab_aa
@HWI-EAS443:3:34:300:827#0/1
TGGGGAGCGCCAGGATGCCACAGAAATCAGAGCATCTGTC
+HWI-EAS443:3:34:300:827#0/1
aa_`a_Uaa[a¥_a__aa__[_^^^Z^^WU[¥¥¥¥SV
@HWI-EAS443:3:34:316:145#0/1
GAAATAAATACCTAGAAGAGCATCCCAGTGCTGGGAAGGA
+HWI-EAS443:3:34:316:145#0/1
aaWM[^WZWUaa`aa]¥aa`a]^[_UZ`MY^Y]X¥]^]¥
@HWI-EAS443:3:34:318:1970#0/1
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+HWI-EAS443:3:34:318:1970#0/1
a^_WOY_ZV`ZI^]abY`^[Q00]a[QY_`VRF_`N_BBB
@HWI-EAS443:3:34:322:813#0/1
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+HWI-EAS443:3:34:322:813#0/1
¥^RW_ZWTUZ]¥T¥]_Y_YU¥[[XJU^`¥XUTYZ`S_RBB
@HWI-EAS443:3:34:383:781#0/1
CAAATGTGCACTGAACTCAAACCTCAGTGATTATGATGGAC
+HWI-EAS443:3:34:383:781#0/1
a^aaaa¥abab^`[^`aaa^`aaaa_`a`_aaaa_``^]`^
@HWI-EAS443:3:34:391:1645#0/1
ATCAGTTGCACATAAATCCTGCCTGCCTGCTTGTGTGTAT
+HWI-EAS443:3:34:391:1645#0/1
_XL_a^U``Y`U`¥Saaba]]bbaaba_`baa_¥`U`¥aa
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+HWI-EAS443:3:34:395:474#0/1
a^_a`Z]_`_]a`_`a__`^_]^^¥^]Z]]^^Z]X^XWX
@HWI-EAS443:3:34:417:1789#0/1
TGCTTTCTGCTTTTGATGAGAGAAGAAATAAATACCTAGA
+HWI-EAS443:3:34:417:1789#0/1
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@HWI-EAS443:3:34:426:574#0/1
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+HWI-EAS443:3:34:426:574#0/1
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@HWI-EAS443:3:34:539:1992#0/1
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+HWI-EAS443:3:34:539:1992#0/1
aaaa`abaU``aabaa`a_a`a``__a__]]YY`[W]_X
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CAATGATGGATCAAGTAAGAGAAAGTCGAAACCCAGGAAA
+HWI-EAS443:3:34:550:877#0/1
R_¥Q^b`aXQ_[XORP`^`]^`¥S^[LZSPMRLVZUXYa
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+HWI-EAS443:3:34:562:954#0/1
abb]a_bababaaaaaa`aaa_aabaa`aaUa_Y_T¥Q_
@HWI-EAS443:3:34:625:280#0/1
ATATCCTCAAAGGAAAATTTCAAACAGCTGCCAGAGGGC
+HWI-EAS443:3:34:625:280#0/1
a`^a[YZ^^__ZX_W_a`V_aZUW```a_a^Z[Z_¥Z¥]]
@HWI-EAS443:3:34:678:1164#0/1
TAACAATAGAGAGGATGGTGCTTTCTGCTTTTGATGAGAG
+HWI-EAS443:3:34:678:1164#0/1
a`¥a_aaaaa^^`^`__YY_]a_]`^PV^^`^¥_]`[S¥Y]
@HWI-EAS443:3:34:702:812#0/1
CTGTTTTCTTAGGGTCTTCCCAGCACTGGGATGCTCTTC
+HWI-EAS443:3:34:702:812#0/1
abb_aaa[abaa[a`a`aabaaa`a`^Ya_[R``VaX^^^

@HWI-EAS443:3:34:750:815#0/1
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+HWI-EAS443:3:34:750:815#0/1
`_¥^`a`a`W`X]_^_U_^¥a]0[¥UX][Z]`____]]]]
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GGAGGGGTGAAAATGGACGAAGGACAAGGGTTGCTTATGA
+HWI-EAS443:3:34:75:1980#0/1
aa`^`^aaYa`^`^aa]`aa__Z__aa`Z]Z`]a[`^^^`W[
@HWI-EAS443:3:34:780:1900#0/1
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+HWI-EAS443:3:34:780:1900#0/1
a_QRaaZNQH^____aa_`¥Z^V¥¥[XNV¥XUVSYRUBBB
@HWI-EAS443:3:34:78:522#0/1
AAGCACCATCCTCTCTATTGTTATGCTATTCTGGATTAGT
+HWI-EAS443:3:34:78:522#0/1
_SXbaaaa`aaaa```_a`_]`_`^`^]`_`__[¥Z^^_YU
@HWI-EAS443:3:34:830:1214#0/1
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+HWI-EAS443:3:34:830:1214#0/1
aaa_bbbb_aaaaaaaaa`R^X[`Xa`aUZ]a_¥]SS^[[Q
@HWI-EAS443:3:34:849:1282#0/1
GATGCAACAGCAGGTCTTACTCATATCATGATTTGGCATT
+HWI-EAS443:3:34:849:1282#0/1
a]_[^_¥^^W^NFRVWUa]a]^a_[a`a_a[^`_`SPZ_ZQ
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GAAAGAATGTGCAATATCCTCAAAGGAAAATTTCAAACAG
+HWI-EAS443:3:34:872:878#0/1
Zabb`¥bYab`¥____a]aaba_]baa`a`aa_____`
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CAAACACTCAGTGATTATGATGGACGACTAATCCAGAATAGC
+HWI-EAS443:3:34:879:408#0/1
a`W[[]aaaaZ`]a`Vaa_aaa]_`_`[a`____]_^][Y]Z
@HWI-EAS443:3:34:884:1862#0/1
ATCATAATCACTGAGTTTGAGTTCAGTGCACATTTGGATG
+HWI-EAS443:3:34:884:1862#0/1
`baa^b]aaZ¥_XLY]`a]¥VX`¥]WX__aS_YW_]_]_WT
@HWI-EAS443:3:34:945:1183#0/1
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+HWI-EAS443:3:34:945:1183#0/1
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@HWI-EAS443:3:34:954:902#0/1
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+HWI-EAS443:3:34:954:902#0/1
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@HWI-EAS443:3:34:958:184#0/1
GGATCAGTTGCACATAAATCCTGCCTGCCTGCTTGTGTGT
+HWI-EAS443:3:34:958:184#0/1
aaa`]a_TW]V¥V¥¥_VWTMU]YNPWZ^^^]UZBBBBBBBB
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@HWI-EAS443:3:35:1718:1012#0/1
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+HWI-EAS443:3:35:1718:1012#0/1
`baabaabbaababaaab`UaW[a`Xb_aaba`XXaa_RZ
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GGCGAAGATGCAACAGCAGGTCTTACTCATATCATGATTT
+HWI-EAS443:3:35:1730:1066#0/1
a^`ZHZ¥_^[]¥[WZ]a`^¥RV]___KQ]a`^a¥XU`W`
@HWI-EAS443:3:35:1771:2041#0/1
CAGATGCTCTGATTTCTGTGGCATCCTGGCGCTCCCCACC
+HWI-EAS443:3:35:1771:2041#0/1
``aX`aa__`_`_`¥RVZMU[``¥¥SQU^`¥^¥_BBBBBB
@HWI-EAS443:3:35:1776:977#0/1
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+HWI-EAS443:3:35:1776:977#0/1
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@HWI-EAS443:3:35:179:489#0/1
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+HWI-EAS443:3:35:179:489#0/1
ab^[¥a^P^UaaZVY¥NY^`VYU[[ZZ[W^ZZQNQXZU[N
@HWI-EAS443:3:35:189:1060#0/1
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+HWI-EAS443:3:35:189:1060#0/1
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+HWI-EAS443:3:35:221:422#0/1
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+HWI-EAS443:3:35:304:312#0/1
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@HWI-EAS443:3:35:35:760#0/1
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+HWI-EAS443:3:35:35:760#0/1
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Q¥[¥ZW_Q__¥VX^TW__ba`]]bbab^[_ba[`_T¥OH
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+HWI-EAS443:3:35:541:428#0/1
a¥a^`_]`[^]aa`aa^]_aaaaa`_`¥[_a[`¥¥Y`]ZX
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+HWI-EAS443:3:35:605:181#0/1
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a_b^Y`_^0__¥_abS¥VYa_Yaa__aaa][]^`^`_`_`_`
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+HWI-EAS443:3:35:806:481#0/1
a^_aaaaabaa_aa`aaa`__T^`_Z_aa`a_aa`¥]`^R
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+HWI-EAS443:3:36:1136:866#0/1
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+HWI-EAS443:3:36:1180:1762#0/1
aX^X`^^^aa¥_¥XaXa]Ya`^a__]`_^]¥T¥_¥VU[_
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+HWI-EAS443:3:36:1222:1443#0/1
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+HWI-EAS443:3:36:1367:131#0/1
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+HWI-EAS443:3:36:1415:722#0/1
a¥a¥0¥a^a`Xa^[_¥]^_^^_X[aY`¥]¥^]_¥_^U^
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+HWI-EAS443:3:36:1481:1257#0/1
UYI¥a^Z_a`SXY_¥_¥]]]a`a¥QZTY[bU`¥a[RLUO
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+HWI-EAS443:3:36:1499:715#0/1
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+HWI-EAS443:3:36:1586:1103#0/1
aaaa_abab`aaa_WX_a^]X_^a_`]__YR XR[X^_]`^
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+HWI-EAS443:3:36:1672:1182#0/1
abbbbbbb_babba`abb`a_a`_^bX^a`YV`a]a`_a
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+HWI-EAS443:3:36:1688:1067#0/1
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+HWI-EAS443:3:36:174:663#0/1  
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+HWI-EAS443:3:36:284:760#0/1  
Y`b^[^W^aaaa`\_Z\_a`aa`^aa]aa```^aaaYaaa¥^  
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+HWI-EAS443:3:36:285:288#0/1  
ab^aaabaaaa`^a`ba\_\_a\_^a\_\_\_\_`\_\_`\_^\_]^Z`HY  
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+HWI-EAS443:3:36:391:1765#0/1  
\_\_V\_[Y¥Y^\_bYVWaUXYZSVa`\_ZUWOVX]U\_]aWLP\_Z  
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+HWI-EAS443:3:36:50:1764#0/1  
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aa\_\_aba`\_`aV\_Waa\_YY`]\_\_¥\_NQSZ\_^YUQYSWZ¥  
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a]`^Y`\_aaaa^aa`ab\_`a`a`a`]\_\_\_Za\_\_a\_`\_`\_`  
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+HWI-EAS443:3:36:943:71#0/1  
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+HWI-EAS443:3:36:986:886#0/1  
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+HWI-EAS443:3:37:1062:1120#0/1  
Z`a`YS\_^^^¥¥^\_\_\_\_\_¥¥¥W\_\_bb\_WQDO]¥^^[S[W¥  
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+HWI-EAS443:3:37:1088:1331#0/1  
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+HWI-EAS443:3:37:1133:1355#0/1  
\_V¥IKb[b\_babbabb[ab¥]ba\_¥R[`]ZZ¥TWVaaabN  
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+HWI-EAS443:3:37:1150:1143#0/1  
``^aa`\_`aaa[`\_W`\_^`¥0`a`[^]PMYW^]]YQ TZ  
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+HWI-EAS443:3:37:1319:1021#0/1  
\_\_`Y^a[`baa]aaa`Z`a]a[```Y^aOF[aa\_YU`¥¥  
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+HWI-EAS443:3:37:138:1859#0/1  
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+HWI-EAS443:3:37:1631:978#0/1  
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aa¥aaabaa`\_aa^b]`\_\_aba`\_a```G\_Z\_\_a\_\_]^¥  
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+HWI-EAS443:3:37:1673:390#0/1  
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+HWI-EAS443:3:37:1689:1622#0/1  
R`^\_]`b`^`^`^XP¥b¥\_Vb`bbbX`^b^`^`^Z\_  
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Ta\_\_b\_Q\_\_¥aa¥`]`]S`a`bbI`Ubbbbbaaba^  
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+HWI-EAS443:3:37:305:1449#0/1  
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+HWI-EAS443:3:37:50:1031#0/1  
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+HWI-EAS443:3:37:569:1771#0/1  
]^b\_`bbba`[a`aSb]aaHab```¥a\_U[^Z^^`ZEVG¥  
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+HWI-EAS443:3:37:753:1218#0/1  
`T\_a`a]b\_``^¥\_UZ^\_W\_Z^^`X\_VW\_GWV]\_¥V[ZZ]  
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+HWI-EAS443:3:37:856:1992#0/1  
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GAAGATGCAACAGCAGGTCTTACTCATATCATGATTTGGC  
+HWI-EAS443:3:37:876:1080#0/1  
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+HWI-EAS443:3:37:89:1360#0/1  
^^`b`V¥P][S\_¥`b`VV][ ]OVV¥XNR¥aY]U\_\_]T]  
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\_T¥^`^Za`^^^]XZ`ab\_YP[YV]\_\_aUV]YVNL YUTR  
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+HWI-EAS443:3:38:1065:1934#0/1  
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+HWI-EAS443:3:38:1216:932#0/1  
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+HWI-EAS443:3:38:1220:760#0/1  
abbaZZ\_\_\_\_]¥a\_`aa`^Y` `` `aa]` `aY[\_^XSRZ^[W  
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+HWI-EAS443:3:38:1536:448#0/1  
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+HWI-EAS443:3:38:161:427#0/1
abb`¥`aaa[aa`aaa`[`aaa`aa_a¥^YZ``__`¥_S
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+HWI-EAS443:3:38:1666:1022#0/1
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a^_[^]Z`]]Z¥_a¥KZ_¥]_aa`^Z_TW¥Y[[__V[YWV
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@HWI-EAS443:3:38:508:1456#0/1
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+HWI-EAS443:3:38:810:247#0/1
ab¥¥aaa]^_aa`[a`_`_`_____^_^_[YV^]^[W[]]Y
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+HWI-EAS443:3:38:814:329#0/1
```aa`aaaa`\_]\_^\_a\_\_`]\_\_\_\_]]^^YXXY]^¥¥¥U  
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V\_¥V\_^^\_¥]WQRGXRTV\_^QQ¥\_a`Z^XRDU^][YGF¥^  
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a\_abbbbab`abbbbaa`a`^a`aa`\_b`a¥`\_aaa]`]  
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a`aabb]bababba`^`\_Z\_aZ^aVaa¥Y]a`[¥\_]aYaO  
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+HWI-EAS443:3:39:1359:862#0/1  
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+HWI-EAS443:3:39:1379:1876#0/1  
\_U`aaa`bbaR[[`a`\_a`¥XY[]`a`\_aa[ZXWaa¥^X^V  
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+HWI-EAS443:3:39:1436:1417#0/1  
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ab]^\_^bababa¥`aa`RWU\_`]J[\_U\_Z`aTU^X^[[VX  
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+HWI-EAS443:3:39:1724:990#0/1  
a^a\_\_\_aba\_^a\_\_a`]Y]]a`ZYZ\_Z\_\_ZX]W\_Z`W^X  
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+HWI-EAS443:3:39:333:219#0/1  
^abb\_bbbb```bbbaaabba\_QWZ\_aaaa`¥]a\_]\_\_]`  
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+HWI-EAS443:3:39:626:1236#0/1  
`^G]^`a\_¥V\_`]a¥^a`Z^)``\_\_\_\_`¥P^[\_\_\_\_\_OU  
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+HWI-EAS443:3:39:660:1076#0/1  
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+HWI-EAS443:3:39:751:479#0/1  
a\_\_\_aaa^U[YSVUUR[¥YXP¥¥]\_^RR[VWV¥¥\_RT¥]U  
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@HWI-EAS443:3:3:1163:469#0/1  
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+HWI-EAS443:3:3:1163:469#0/1  
aaaa`\_a\_a`a]`\_\_\_\_a¥V\_¥\_\_`S^PXZ[\_\_\_\_QW]Y\_^^  
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+HWI-EAS443:3:3:117:636#0/1  
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+HWI-EAS443:3:3:146:222#0/1
a]a`Y`Ub_^ZXZXaaa`W`]]aaW¥Y^__aa^[^aTQ
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_b^Maa]]b_b[b¥]b_]Y¥_aa]VUaaa][`]¥[XNLBB
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+HWI-EAS443:3:3:1678:692#0/1
_^_a^^``abaa]H]]`a]`aa][_OZ¥_`]U¥]_¥_ZB
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+HWI-EAS443:3:3:1781:1527#0/1
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+HWI-EAS443:3:3:178:350#0/1
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+HWI-EAS443:3:3:305:1894#0/1
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aaaaa`a_aaaab`aaaaaaaaaaaaa````a__S_a¥_`
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+HWI-EAS443:3:3:867:1120#0/1
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+HWI-EAS443:3:40:1028:1411#0/1
aaaaaaaaa`a`a_____`X`^^`_XYW[U^_aTWXTKPUZ
@HWI-EAS443:3:40:1064:1750#0/1
ACTGAACTCAAACCTCAGTGATTATGATGGACGACTAATCC
+HWI-EAS443:3:40:1064:1750#0/1
a`ZN¥a`XX^`ZX^RWT¥^[`[XWRSM[TPT`[^_Y^G

@HWI-EAS443:3:40:1101:424#0/1
GCACATTTGGATGTAGAATCTCCCGATTCCACCAATCATT
+HWI-EAS443:3:40:1101:424#0/1
a_aa`a`a__`_^VYLW^Z^WWV]YYYYVWZ]MDKTVRRT
@HWI-EAS443:3:40:1150:1054#0/1
TGCTTTCTGCTTTTGATGAGAGAAGAAATAAATACCTAGA
+HWI-EAS443:3:40:1150:1054#0/1
abaaaaaaaa_a_`aa_a_a_a_`_YLX]a^_a```_a__
@HWI-EAS443:3:40:116:361#0/1
TGGGTTTTTCATTTGGTCTCATCAGGCTGACCACTTGGCTG
+HWI-EAS443:3:40:116:361#0/1
_aaa_bbbabbbaba_aa^[`bbaaaZ`P]^aa__aaa`a
@HWI-EAS443:3:40:1224:1934#0/1
ACAATAGAGAGGATGGTGCTTTCTGCTTTTGATGAGAGAA
+HWI-EAS443:3:40:1224:1934#0/1
aaa`ab`^`^aa]Za]X]VPX`_]XVZ]__W`ZXX[P_^
@HWI-EAS443:3:40:1231:176#0/1
GCAATGATGGATCAAGTAAGAGAAAGTCGAAACCCAGGAA
+HWI-EAS443:3:40:1231:176#0/1
a^X_]`^LZa^QPSPR[Z¥YQROSVYRM^UUTTR^WWYZSV
@HWI-EAS443:3:40:1306:427#0/1
GACCCATTCAAATTACTCCAAAACAGCCAAGTGGTCAGCC
+HWI-EAS443:3:40:1306:427#0/1
ab]a]ZPU¥ZV[^[_`^`_]`^`¥Z[U[^UUWR_GUS^YP
@HWI-EAS443:3:40:1327:1559#0/1
TTTTTCATTTGGTCTCATCAGGCTGACCACTTGGCTGTTTT
+HWI-EAS443:3:40:1327:1559#0/1
]a`a`_`a`__¥a`¥`_`aa^]aa`¥]baa^_`¥`a]FX¥Z
@HWI-EAS443:3:40:1417:789#0/1
ATTCTGGGATCCATTCCGGTGCGAACAAGCGCTCTTGTTTC
+HWI-EAS443:3:40:1417:789#0/1
`b`^`^bbb`ba`aaaa`b¥Y`abaaYL`aaaa`aaaa`Z
@HWI-EAS443:3:40:1432:833#0/1
GAGAGAAGAAATAAATACCTAGAAGAGCATCCCAGTGCTG
+HWI-EAS443:3:40:1432:833#0/1
`]]_`[Ta[^¥`a`^`^_VN__]__]_V_U[¥S_XYLZWU_
@HWI-EAS443:3:40:1479:1476#0/1
CTCCTGTTTTCTTAGGGTCCTTCCCAGCACTGGGATGCTC
+HWI-EAS443:3:40:1479:1476#0/1
aababbbbbbbabbbabababbbbb`aab_`abba`ab]ba
@HWI-EAS443:3:40:1494:972#0/1
GCCACATATCAGAGAACAAGAGCGCTTGTTTCGCACCGGAA
+HWI-EAS443:3:40:1494:972#0/1
a^V]PNXRVMORTRXKNUYRWWNYVPP¥[WSR]RZU[Q]JQ
@HWI-EAS443:3:40:1570:809#0/1
GGGTCCTCCTGTTTTCTTAGGGTCCTTCCCAGCACTGGGA
+HWI-EAS443:3:40:1570:809#0/1
a_`Y`¥XR]^V^]_Q`^Y]_`[¥WSU]_`_WYSHYZZ¥]U
@HWI-EAS443:3:40:1663:964#0/1
TGGGCTTGCAGTAGCAAGTGGGCATGACTTTGAAAGGGAA

+HWI-EAS443:3:40:1663:964#0/1
`_]`¥abX^aZTWSY`^YX]T¥aWSHP__a_V`_`[_ZU
@HWI-EAS443:3:40:1673:825#0/1
ATCGGGAGATTCTACATCCAAATGTGCACTGAACTCAAAC
+HWI-EAS443:3:40:1673:825#0/1
abbbbbbb_bbabaa]ba`bab`a¥abaa]^aababa^JW
@HWI-EAS443:3:40:1696:493#0/1
TAACAATAGAGAGGATGGTGCTTTCTGCTTTTGATGAGAG
+HWI-EAS443:3:40:1696:493#0/1
`_a_`T`a_aY]a^Ya^0_¥Z^¥X¥[]^¥[LPW_][¥[¥
@HWI-EAS443:3:40:1769:1289#0/1
TGGTGCTTTCTGCTTTTGATGAGAGAAGAAATAAATACCT
+HWI-EAS443:3:40:1769:1289#0/1
aa`¥aaaa`aa_`aaaaaa`a`VN]^`_a_V__]W][
@HWI-EAS443:3:40:182:320#0/1
AATTACTCCAAAACAGCCAAGTGGTCAGCCTGATGAGACC
+HWI-EAS443:3:40:182:320#0/1
abbaabaaaaabaaaaaa`aa^a`¥]G¥__`__^a^_Y[a
@HWI-EAS443:3:40:210:197#0/1
AACTGATCCCCTCAGAATGAGTGCTGACCGTGCCAGGAAA
+HWI-EAS443:3:40:210:197#0/1
aa[^aba^^aaa__aS^]a_`Y`_]_IZ¥`¥^`¥W¥UGV
@HWI-EAS443:3:40:23:417#0/1
GTCCTCTGTTTTCTTAGGGTCCTTCCCAGCACTGGGATG
+HWI-EAS443:3:40:23:417#0/1
`^`____`aaNaa__a__aYWV¥V`_^ZNFYVX¥^`]]YZ`
@HWI-EAS443:3:40:260:1955#0/1
ATGGTGCTTTCTGCTTTTGATGAGAGAAGAAATAAATACC
+HWI-EAS443:3:40:260:1955#0/1
a`_[]aa`_a`[____`__`^`_`^ZH`]]`__`XZaa]
@HWI-EAS443:3:40:370:1807#0/1
TCAGCACTCATTCTGAGGGATCAGTTGCACATAAATCCT
+HWI-EAS443:3:40:370:1807#0/1
aab]aaaaaaa¥aa_a`^^^`^^TW¥NYaa[a_a¥¥VaaU
@HWI-EAS443:3:40:432:658#0/1
GTTCCAACCTTTTACCAGCACCTGCGGCACCAGACC
+HWI-EAS443:3:40:432:658#0/1
a^a_`_aY__`X^[^V_`^Y¥]¥TS[P¥¥Y[SOQWJVUVM
@HWI-EAS443:3:40:438:1695#0/1
GCAGGCAGGATTTATGTGCAACTGATCCCCTCAGAATGAG
+HWI-EAS443:3:40:438:1695#0/1
`aa[ab^_a[_aa_[T__a`a`XO]Xaaba¥_¥U[[TXZY
@HWI-EAS443:3:40:46:1865#0/1
GCTGTTGCATCTTCGCCATTGTTTGCTTGGCGCCAAACTC
+HWI-EAS443:3:40:46:1865#0/1
`a`XY^`b`^`S`_]`a^¥aU]a¥T]Y_PXVDZ^MOU¥¥_
@HWI-EAS443:3:40:491:350#0/1
ATGCAAGTTCAACACTTCCCAGAAGGTCTGGTGCCGAG
+HWI-EAS443:3:40:491:350#0/1
V^`_aX__¥^aa`aaaa`_a_aa]]`TRaaa^R`a¥`^Qa

@HWI-EAS443:3:40:52:1139#0/1
TGATTATGATGGACGACTAATCCAGAATAGCATAACAATA
+HWI-EAS443:3:40:52:1139#0/1
abaabbabaaa¥^aaaa^aaa_a]P]Y`aaa_a`^^_`
@HWI-EAS443:3:40:539:1876#0/1
GCTTTCTGCTTTTGATGAGAGAAGAAATAAATACCTAGAA
+HWI-EAS443:3:40:539:1876#0/1
a`[V[WP]ZRVT^[ZUTVZFRYZXWUGROHTVUVYY]SV[
@HWI-EAS443:3:40:646:1765#0/1
CCCTTGCTCCTTCGTCATTTTCACCCCTCCAGAAATTCG
+HWI-EAS443:3:40:646:1765#0/1
a`a^Ya[aaX`^`U`]a_^^_[aaY]^Waaa_a]SVWYaS
@HWI-EAS443:3:40:662:1402#0/1
AAATGGACGAAGGACAAGGGTTGCTTATGAAAGAATGTGC
+HWI-EAS443:3:40:662:1402#0/1
a`_bbbbaaaa¥aaaa¥aa¥]`a`¥H[_¥[a^¥` `a^`_
@HWI-EAS443:3:40:701:1389#0/1
CTGTTTTCTTAGGGTCCTTCCCAGCACTGGGATGCTCTTC
+HWI-EAS443:3:40:701:1389#0/1
[`aa`a``baY¥_a```_W_`^^^aaaa`^¥]aa_a`]]
@HWI-EAS443:3:40:706:1213#0/1
CTGCTGTTGCATCTTCGCCATTGTTTGCTTGGCGCCAAAC
+HWI-EAS443:3:40:706:1213#0/1
Nbbbaa`[[`aba[`baaa]]`aZaU^[a¥`^XZ^HT¥X
@HWI-EAS443:3:40:736:44#0/1
AGAAGAAATAAATACCTAGAAGAGCATCCCAGTGCTGGGA
+HWI-EAS443:3:40:736:44#0/1
`_XZ^a[¥Z_aa_T` `a[aZY^Y[V^S[ZLLLULU`HZ_XX
@HWI-EAS443:3:40:756:70#0/1
TCCTGGGTTTCGACTTTCTTACTTGATCCATCATTGCC
+HWI-EAS443:3:40:756:70#0/1
ab_aaaaUaa`aY^a____^__a_`^WIU_UP^`]YX[¥S
@HWI-EAS443:3:40:956:1358#0/1
AATGATTGGTGAATCGGGAGATTCTACATCCAAATGTGC
+HWI-EAS443:3:40:956:1358#0/1
abaa]aa¥`a`_a`aaa`_¥]__VFU]¥^`_a_X^UXW
@HWI-EAS443:3:40:997:578#0/1
CACATTCTTTCATAAGCAACCCTTGCCTTCGTCCATTTT
+HWI-EAS443:3:40:997:578#0/1
aabbbaabb`bbaba`aaaaba`a_a` ```_a_a_U¥a`
@HWI-EAS443:3:42:1007:101#0/1
AGAGCATCCCAGTGCTGGGAAGGACCCTAAGAAAACAGGA
+HWI-EAS443:3:42:1007:101#0/1
abbbabbbabab_baabbb_aba¥a`_aa`aa__a^aaa`
@HWI-EAS443:3:42:1031:366#0/1
GTTGCTTATGAAAGAATGTGCAATATCCTCAAAGGAAAAT
+HWI-EAS443:3:42:1031:366#0/1
a`bb_abaabaabaab_a`aaaaaaab`aabaaa`aa
@HWI-EAS443:3:42:1050:207#0/1
CATAAATCCTGCCTGCCTGCTTGTGTGTATGGGCTTGCAG

+HWI-EAS443:3:42:1050:207#0/1
a`[^`a^¥bb`^Z]X^[_`_a`¥aaUaba^RWY[LQY
@HWI-EAS443:3:42:1085:1514#0/1
CGCCAAGCAAACAATGGCGAAGATGCAACAGCAGGTCTTA
+HWI-EAS443:3:42:1085:1514#0/1
abbba`ab]b`_a`¥Zbabbaa^a`Q^aaa[`a`^V____]
@HWI-EAS443:3:42:1096:846#0/1
CTGCGGTGAAAGGAGTTGGAACAATAGCAATGGAGTTAAT
+HWI-EAS443:3:42:1096:846#0/1
_bbbababbbbaababbbabbbbbb]bbaab`bbba
@HWI-EAS443:3:42:1109:47#0/1
CTCTAATGCAAGTTCAACACTTCCCAGAAGGTCTGGTGC
+HWI-EAS443:3:42:1109:47#0/1
a`bb`baba]0]bab`_`^aabaaaa^¥b¥W` `T[`aa^b`
@HWI-EAS443:3:42:1145:223#0/1
AGTGAGTACCCTTCCCTTTCAAAGTCATGCCCACTTGCTA
+HWI-EAS443:3:42:1145:223#0/1
aa¥aa`_X^`a_]__aaa`aa`¥¥a`X¥[_^Z`_`[^
@HWI-EAS443:3:42:1188:1787#0/1
GAACTCAAACACTCAGTGATTATGATGGACGACTAATCCAGA
+HWI-EAS443:3:42:1188:1787#0/1
abbabbbabababb`aaabbbaaaa`a`a`aaa_a`aa`
@HWI-EAS443:3:42:1219:1071#0/1
AGCAGGTCTTACTCATATCATGATTTGGCATTCCAACCTG
+HWI-EAS443:3:42:1219:1071#0/1
¥]ZZ`^]aa]aaa]__¥__`a___aa```a] [U¥LWa_^
@HWI-EAS443:3:42:1234:467#0/1
AATCTCCCGATTCCACCAATCATTCTTCCGACAGATGCTC
+HWI-EAS443:3:42:1234:467#0/1
abba`]aa``aa_a``_a```_`aa`a`Z`aa^Z_Z_a`X
@HWI-EAS443:3:42:1312:858#0/1
TGGGGAGCGCCAGGATGCCACAGAAATCAGAGCATCTGTC
+HWI-EAS443:3:42:1312:858#0/1
aaUa__aa`^`_YQQ]X`¥a`¥^Z]M` `^^¥¥¥¥^YUN
@HWI-EAS443:3:42:1318:1259#0/1
GCATAACAATAGAGAGGATGGTGCTTTCTGCTTTTGATGA
+HWI-EAS443:3:42:1318:1259#0/1
a`_a_a`_a`__`_X`^¥`_N_[U`^U]XV^^^YRXWL
@HWI-EAS443:3:42:1323:1547#0/1
GAAGAAATAAATACCTAGAAGAGCATCCCAGTGCTGGGAA
+HWI-EAS443:3:42:1323:1547#0/1
`a` `aa^baaaaaabb`aaaab`aab`aaaXa` `X`_`
@HWI-EAS443:3:42:1324:943#0/1
GTTGCATCTTCCGATTGTTTGTGTTGGCGCCAAACTCTCC
+HWI-EAS443:3:42:1324:943#0/1
`aa`__`baaaZ`[_a`_ab`aY`¥¥^`_X][XN]XV]_
@HWI-EAS443:3:42:1329:154#0/1
CGTCCATCATAATCACTGAGTTTGAGTTTCAGTGACATTT
+HWI-EAS443:3:42:1329:154#0/1
¥V¥a_]_N_[[]XV^] `bab^aaa`a_a_]`_a]`_Z]^`^`

@HWI-EAS443:3:42:1342:778#0/1
GGTATTTATTTCTTCTCATCAAAAGCAGAAAGCACCAT
+HWI-EAS443:3:42:1342:778#0/1
ab^abbbaabb`abababaaa`aaaaa^^a`_a]_aaaa`
@HWI-EAS443:3:42:1395:1114#0/1
GTCCTCTGTTTTCTTAGGGTCTTCCCAGCACTGGGATG
+HWI-EAS443:3:42:1395:1114#0/1
aaa`baaababaa`aaaaa___aa`a_aab¥`_aaaa^aa
@HWI-EAS443:3:42:1430:107#0/1
TGGGTTTTCGACTTTCTTACTTGATCCATCATTGCCCTC
+HWI-EAS443:3:42:1430:107#0/1
ab`_Ubbba]aabab` `[a_XW_ba^`]_`b_a__a]`a__
@HWI-EAS443:3:42:1446:1303#0/1
GACCGTGCCAGGAAAATGAGGTCTTCAATCTCAGCGTTTC
+HWI-EAS443:3:42:1446:1303#0/1
a`Q¥aU_aXR_Z]`_a`X]aZFXaY^_Z]`]]YY^^U^QG
@HWI-EAS443:3:42:147:492#0/1
CCTGGGTTTTCGACTTTCTTACTTGATCCATCATTGCCC
+HWI-EAS443:3:42:147:492#0/1
abbbbbbbb_U¥a`a__a_aa^aa[___a[^`aaaa]a^^`
@HWI-EAS443:3:42:1548:1424#0/1
AAATTTCTGGAGGGGTGAAAATGGACGAAGGACAAGGGTT
+HWI-EAS443:3:42:1548:1424#0/1
¥a`^aab`^Y0]^¥]E]_Z`b`WP_¥`a``_Y[]¥G¥aZ
@HWI-EAS443:3:42:1554:409#0/1
GATGGATCAAGTAAGAGAAAGTCGAAACCCAGGAAACGCT
+HWI-EAS443:3:42:1554:409#0/1
_bbaba`abab_abb_b`_aa_a_aa`U_[]]`_aaZ`_Y
@HWI-EAS443:3:42:165:26#0/1
GGAAGGGTACTCACTGGTCGGGATAGACCCATTCAAATTA
+HWI-EAS443:3:42:165:26#0/1
aaa`a``Z^``a¥a¥¥aV_``a^^__[[`_^Z^Z[YV]S¥
@HWI-EAS443:3:42:1661:262#0/1
TAGAGAGGATGGTGCTTTCTGCTTTTGATGAGAGAAGAAA
+HWI-EAS443:3:42:1661:262#0/1
aab`ba`b`_baV^WYa_^`¥V`_a`WY``Ya]` [` _X^¥
@HWI-EAS443:3:42:1711:1507#0/1
GCTTTCTGCTTTTGATGAGAGAAGAAATAAATACCTAGAA
+HWI-EAS443:3:42:1711:1507#0/1
aba`aaaa]abaab`aa_b_a^aa_aaaa`aa^]a```]
@HWI-EAS443:3:42:1718:1794#0/1
GAAGAATGATTGGTGAATCGGGAGATTCTACATCCAAAT
+HWI-EAS443:3:42:1718:1794#0/1
^aabaaa^UaaYa^S_a^`_aaaRXXa[QY]GY_RRW_]Y
@HWI-EAS443:3:42:174:424#0/1
TCTGAGGGGATCAGTTGCACATAAATCCTGCCTGCCTGCT
+HWI-EAS443:3:42:174:424#0/1
aaababa`aaaaa`aaaa_a`]a_aa__``_`
@HWI-EAS443:3:42:210:860#0/1
GGTTTTCATTTGGTCTCATCAGGCTGACCACTTGGCTGTT

+HWI-EAS443:3:42:210:860#0/1
ab^aa_aRaaa]aa``_aa__a`_`_]_a`[_`_`aW[
@HWI-EAS443:3:42:232:843#0/1
CCTCTCTATTGTTATGCTATTCTGGATTAGTCGTCATCA
+HWI-EAS443:3:42:232:843#0/1
aababbaabba`bababbabaaa_baaaa_aa_`````a
@HWI-EAS443:3:42:331:169#0/1
CAAACAATGGCGAAGATGCAACAGCAGGTCTTACTCATAT
+HWI-EAS443:3:42:331:169#0/1
abaaaba`ba`aaaa`aa`a__a`W__`_]`^_Z`^`_
@HWI-EAS443:3:42:442:2020#0/1
ATTTCAAACAGCTGCCAGAGGGCAATGATGGATCAAGTA
+HWI-EAS443:3:42:442:2020#0/1
aaZ]`a`^aaaZa__aaa`RPY_Z[Z]_]X¥]R^`Y_
@HWI-EAS443:3:42:458:1794#0/1
GAAAGAATGTGCAATATCCTCAAAGGAAAATTTCAAACAG
+HWI-EAS443:3:42:458:1794#0/1
__baZ`a`abaaa_aa_aa`bbba`^aaaa[aaaab`
@HWI-EAS443:3:42:557:89#0/1
AGAGGGCAATGATGGATCAAGTAAGAGAAAGTCGAAACCC
+HWI-EAS443:3:42:557:89#0/1
[bbabb`aabbbaaba^aa_b^baa`_Wa`_G_aa`_WY[
@HWI-EAS443:3:42:638:207#0/1
GAAGGGTACTCACTGGTCGGGATAGACCCATTCAAATTAC
+HWI-EAS443:3:42:638:207#0/1
ab_bbb^abba_baba_aaaa__aaaa`aaa`_aaa¥a`
@HWI-EAS443:3:42:746:1607#0/1
TGTGAGCTGGGTTTTCTTTGGTCTCATCAGGCTGACCAC
+HWI-EAS443:3:42:746:1607#0/1
^a]__`_````````aabb_`¥ZUa¥^a``__]a_`¥`_a[
@HWI-EAS443:3:42:784:1315#0/1
GGGTCCTCCTGTTTTCTTAGGGTCCTTCCCAGCACTGGGA
+HWI-EAS443:3:42:784:1315#0/1
abaYabbbbabbbbabbb_a`^aaabbabaaaa`a_^¥
@HWI-EAS443:3:42:831:298#0/1
GACTTTGAAAGGGAAGGGTACTCACTGGTCGGGATAGACC
+HWI-EAS443:3:42:831:298#0/1
ZSaabba^_X]T¥aa¥^aTaa¥]`a`baU[aX]`_]X[YV
@HWI-EAS443:3:42:907:1170#0/1
TGGGGAGCGCCAGGATGCCACAGAAATCAGAGCATCTGTC
+HWI-EAS443:3:42:907:1170#0/1
b¥Z]aaa]YZ`^TW^Z^]a¥`]`^`a_ZZ[_^aYFQ
@HWI-EAS443:3:42:939:509#0/1
GGTCCTCCTGTTTTCTTAGGGTCCTTCCCAGCACTGGGAT
+HWI-EAS443:3:42:939:509#0/1
ab¥abaabbb_abaabaaaa^aaaa^H^aaa`aaa`_`
@HWI-EAS443:3:42:954:233#0/1
GATTAACCTCATTGCTATTGTTCCAACCTTTCACCGCA
+HWI-EAS443:3:42:954:233#0/1
aaaaaaaa_a`aa`_`__a^_]U^¥^`_¥`_`_¥^a¥`¥¥

@HWI-EAS443:3:42:985:113#0/1
CGCAGGTGCTGCGGTGAAAGGAGTTGGAACAATAGCAATG
+HWI-EAS443:3:42:985:113#0/1
abbbbb`bb_baaaLa[^bbb`baa_Pabaaa_[]`S`^a
@HWI-EAS443:3:42:99:1062#0/1
AGAATCTCCCGATTCCACCAATCATTCTCCGACAGATGC
+HWI-EAS443:3:42:99:1062#0/1
aaa`aaaa_aa_aa]`a`¥^`__`__`a[¥__Z__YURX
@HWI-EAS443:3:43:1003:1866#0/1
GGCTTGCAGTAGCAAGTGGGCATGACTTTGAAAGGGAAGG
+HWI-EAS443:3:43:1003:1866#0/1
aaa[¥[a`]Y`_a`_RX[X[^__Z_`^XUY^ZUUY[[R
@HWI-EAS443:3:43:1020:1384#0/1
GAAGAAATAAATACCTAGAAGAGCATCCCAGTGCTGGGAA
+HWI-EAS443:3:43:1020:1384#0/1
a`X`__T_`]``_VN__`____`__]_VU]`RY¥__TTZZ
@HWI-EAS443:3:43:105:764#0/1
CCTCTCTATTGTTATGCTATTCTGGATTAGTCGTCATCA
+HWI-EAS443:3:43:105:764#0/1
aaabbbb`abbaab_aababaa`_`a`a][`a^^]`^`
@HWI-EAS443:3:43:1131:792#0/1
GAAATAAATACCTAGAAGAGCATCCCAGTGCTGGGAAGGA
+HWI-EAS443:3:43:1131:792#0/1
aa`aaaaaaX__`aa`^]`]_a_]U¥Ya__aaZ_^a^_
@HWI-EAS443:3:43:1148:637#0/1
TAACAATAGAGAGGATGGTGCTTTCTGCTTTTGATGAGAG
+HWI-EAS443:3:43:1148:637#0/1
aa__`ab_aaa`a_V`aU^XX^N`_X_a__SMY`W`]_
@HWI-EAS443:3:43:1157:878#0/1
CCATCCTCTCTATTGTTATGCTATTCTGGATTAGTCGTC
+HWI-EAS443:3:43:1157:878#0/1
abbbab`bbbbbbbababababbaa_a]abba`X`a_
@HWI-EAS443:3:43:1190:275#0/1
TGGACGACTAATCCAGAATAGCATAACAATAGAGAGGATG
+HWI-EAS443:3:43:1190:275#0/1
abb_aa``bba_^a^baa`_a__a`a`a_a]a_a^a¥__`
@HWI-EAS443:3:43:1219:1292#0/1
GGCATGACTTTGAAAGGGAAGGGTACTCACTGGTCGGGAT
+HWI-EAS443:3:43:1219:1292#0/1
abab`b]bbabbaaaaaaaaaa_Ra`a_a^_]aU`abaY_
@HWI-EAS443:3:43:1222:2002#0/1
CAGTGATTATGATGGACGACTAATCCAGAATAGCATAACA
+HWI-EAS443:3:43:1222:2002#0/1
`Mab`bbabaaa_`^`¥`]b`_`Z_b^aaa^XX¥aaaXX
@HWI-EAS443:3:43:1290:1402#0/1
TGGGTTTCGACTTTCTTACTTGATCCATCATTGCCCTC
+HWI-EAS443:3:43:1290:1402#0/1
X`b^KZbaaaa¥Y`aa^a`_`]`^¥`_Za]Z`]W_YaX`X
@HWI-EAS443:3:43:1305:688#0/1
GAAGAAATAAATACCTAGAAGAGCATCCCAGTGCTGGGAA

+HWI-EAS443:3:43:1305:688#0/1
aaZ`[`aaa`^`^a_aab``a_____`_]`aYa`¥`^[^^
@HWI-EAS443:3:43:1316:498#0/1
AACAAATAGAGAGGATGGTGCTTTCTGCTTTTGATGAGAGA
+HWI-EAS443:3:43:1316:498#0/1
_¥baaab`Uaab`S^¥^HW_U``aZbXZa_a^Pa^MXW]a
@HWI-EAS443:3:43:1457:164#0/1
GTTGCATCTTCGCCATTGTTTGCTTGGCGCCAAACTCTCC
+HWI-EAS443:3:43:1457:164#0/1
aX]`Yaaaaaaaa__`_]__¥_]`_[] []XZ¥RGURUXU
@HWI-EAS443:3:43:1474:1214#0/1
AAATTTTCCTTTGAGGATATTGCACATTCTTTCATAAGCA
+HWI-EAS443:3:43:1474:1214#0/1
aaabbbabaaababbaSbaab`XW_b`P`aa]]a`_`_`
@HWI-EAS443:3:43:1554:1162#0/1
GTGCACATTTGGATGTAGAATCTCCCGATTCCACCAATCA
+HWI-EAS443:3:43:1554:1162#0/1
aZ]Za_aa]aaY¥LYTLNW__N]NSS^YX`VXWGSWPVWS
@HWI-EAS443:3:43:1634:393#0/1
GAATAGCATAACAATAGAGAGGATGGTGCTTTCTGCTTTT
+HWI-EAS443:3:43:1634:393#0/1
a`aa`baaba`____a_a`a_a`_`a]T`XZ^^YYPV`_`
@HWI-EAS443:3:43:1649:635#0/1
GGCTTGCAGTAGCAAGTGGGCATGACTTTGAAAGGGAAGG
+HWI-EAS443:3:43:1649:635#0/1
`aaa`]aa^W_aXaXa^_aX`__a````aa¥^^a__[_`^
@HWI-EAS443:3:43:1673:83#0/1
TCCAAAACAGCCAAGTGGTCAGCCTGATGAGACCAAATGA
+HWI-EAS443:3:43:1673:83#0/1
aaaa_a]__a[_Z^a[_Y]^__Z[``]_`_] [QYY]`^¥
@HWI-EAS443:3:43:192:230#0/1
GCTGTTTTGGAGTAATTTGAATGGGTCTATCCCGACCAGT
+HWI-EAS443:3:43:192:230#0/1
abab_aabbbaa]a`ababbb`b_b^aaa`_`_aa`X_a]
@HWI-EAS443:3:43:201:58#0/1
GTGGGCATGACTTTGAAAGGGAAGGGTACTCACTGGTCGG
+HWI-EAS443:3:43:201:58#0/1
a``aaa`aa^`aaab_a` [aa__aa_X`]`_^__`_WU¥^
@HWI-EAS443:3:43:228:1702#0/1
ATAAATCCTGCCTGCCTGCTTGTGTGTATGGGCTTGCACT
+HWI-EAS443:3:43:228:1702#0/1
a`WZYVa`Uaaa¥¥]^Z``T_]ZVSGL]U^^¥^ZX^¥[XV
@HWI-EAS443:3:43:240:1049#0/1
TAGAGAGGATGGTGCTTTCTGCTTTTGATGAGAGAAGAAA
+HWI-EAS443:3:43:240:1049#0/1
[^]Vbb^a]Z^aJTI¥b[NQ_[Uaa¥NKX_HRHS¥^¥XTN
@HWI-EAS443:3:43:258:990#0/1
CATTCAGTTGGAATGCCAAATCATGATATGAGTAAGACC
+HWI-EAS443:3:43:258:990#0/1
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+HWI-EAS443:3:43:28:407#0/1
aaa`_]_a`]`aaaa_aa_a^a^aaY``_¥_^``]W]^`^¥^
@HWI-EAS443:3:43:357:1027#0/1
CTCCTGTTTTCTTAGGGTCCTTCCCAGCACTGGGATGCTC
+HWI-EAS443:3:43:357:1027#0/1
a¥a^aaaa`^]b¥SS¥_a^[¥aYXYb```a[a^`^a_]YSX
@HWI-EAS443:3:43:379:641#0/1
CACATTCTTTCATAAGCAACCCTTGCCTTCGTCCATTTT
+HWI-EAS443:3:43:379:641#0/1
`a^^aa`^`U_W]ZZa`^`a]a_a_VY`_ZYa¥_Za^aaa
@HWI-EAS443:3:43:413:84#0/1
TGATGGACGACTAATCCAGAATAGCATAACAATAGAGAGG
+HWI-EAS443:3:43:413:84#0/1
a_aabaabaaaa`abaa`aa_aaa`a_```^a_a_a_`a
@HWI-EAS443:3:43:476:1567#0/1
GCTGTTTTGGAGTAATTTGAATGGGTCTATCCCGACCAGT
+HWI-EAS443:3:43:476:1567#0/1
aaXYSa^Yba_a[``][`^NZaaVJ_]`^Z]_¥¥RWaY`_ZT
@HWI-EAS443:3:43:506:898#0/1
GTAAGAGAAAAGTCGAAACCCAGGAAACGCTGAGATTGAAG
+HWI-EAS443:3:43:506:898#0/1
I`]`[_aUa`¥a^¥`__¥ZZ^KRTY^YNV]Y_VVUSYTV
@HWI-EAS443:3:43:533:493#0/1
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+HWI-EAS443:3:43:533:493#0/1
aaab¥aa[POUY]SZ_aa`¥^^^Z_YW_¥]^_VU^__`^_
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CCCAGTGCTGGGAAGGACCCTAAGAAAACAGGAGGACCCA
+HWI-EAS443:3:43:539:114#0/1
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@HWI-EAS443:3:43:553:661#0/1
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+HWI-EAS443:3:43:553:661#0/1
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@HWI-EAS443:3:43:564:1426#0/1
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+HWI-EAS443:3:43:564:1426#0/1
abaabbbbbbabaaab¥`baabbX^aabbab__baaa`_`
@HWI-EAS443:3:43:589:1604#0/1
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+HWI-EAS443:3:43:589:1604#0/1
aabba`abbaaab`bababba_`a`abaaaa_aa`abaa
@HWI-EAS443:3:43:630:1599#0/1
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+HWI-EAS443:3:43:630:1599#0/1
aa_aaabaaaab^`Y]a_aaaa`^_aaaa`a_`^a_0_X
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TAACAATAGAGAGGATGGTGCTTTCTGCTTTTGTGAGAG

+HWI-EAS443:3:43:631:1125#0/1
_aaaabba]^b¥aa_aaa]aa_`aR`aTaa_^KG^RV_Y_
@HWI-EAS443:3:43:728:658#0/1
TGGACGACTAATCCAGAATAGCATAACAATAGAGAGGATG
+HWI-EAS443:3:43:728:658#0/1
abaa`ba`aa_aa`b`a`aaaaa`aaaa[a_a`^`_
@HWI-EAS443:3:43:818:1371#0/1
ATTGTTCCAACCTCTTTCACCGCAGCACCTGCGGCACCAG
+HWI-EAS443:3:43:818:1371#0/1
]b)`W¥]bTa^^R^XY¥`_a^^Xa`]¥`¥Xa¥[aOQY[[[
@HWI-EAS443:3:43:881:837#0/1
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+HWI-EAS443:3:43:881:837#0/1
``abaaabaab`GaZX` `[ZaYa`a_]Ya_Y]^`R^`¥`_
@HWI-EAS443:3:43:958:35#0/1
GTGCTTTCTGCTTTTGATGAGAGAAGAAATAAATACCTAG
+HWI-EAS443:3:43:958:35#0/1
a_a`_aa^ab]a`aaa]aa]a]b¥_a¥^^_^^]^[]V_X]
@HWI-EAS443:3:44:1013:664#0/1
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+HWI-EAS443:3:44:1013:664#0/1
`[[Z][_`[_`a_XWYWTWQ^_¥`ZZTW¥WU[_VMY^WVV
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+HWI-EAS443:3:44:1115:355#0/1
[a`Z`WU`]aW]ZZ^^ST__`a`_XUUDMLWRGXT[SYR
@HWI-EAS443:3:44:128:999#0/1
TGGTGCTTTCTGCTTTTGATGAGAGAAGAAATAAATACCT
+HWI-EAS443:3:44:128:999#0/1
a`a_baaaaaaaa`aaaa`aaa__a`a`_aaaa`aa___`
@HWI-EAS443:3:44:1387:1091#0/1
CATTGCTATTGTTCCAACCTCTTTCACCGCAGCACCTGCG
+HWI-EAS443:3:44:1387:1091#0/1
RZ_ZZ__X_b`^_bb^_Z_`a`U_[Wa^X`X]¥¥]`X_
@HWI-EAS443:3:44:1389:1595#0/1
TAATCACTGAGTTTGAGTTCAGTGCACATTTGGATGTAGA
+HWI-EAS443:3:44:1389:1595#0/1
a¥a]_`[aa^a_a`a]a)`a^`Y_W`[a`_[UY]]_Y]]T
@HWI-EAS443:3:44:1415:311#0/1
TGACTTTGAAAGGGAAGGGTACTCACTGGTCGGGATAGAC
+HWI-EAS443:3:44:1415:311#0/1
aa__aaaa_a_ba_¥`^aX__a___]^Z]^]^]^_Z
@HWI-EAS443:3:44:1490:1456#0/1
CTCCTGTTTTCTTAGGGTCCTTCCCAGCACTGGGATGCTC
+HWI-EAS443:3:44:1490:1456#0/1
a`aba_Z¥bab_Z_Z]SUBaaa_a¥aaaa^aaab[_`[_`R
@HWI-EAS443:3:44:1512:585#0/1
GAGGATGGTGCTTTCTGCTTTTGATGAGAGAAGAAATAAA
+HWI-EAS443:3:44:1512:585#0/1
a[``[aaa_`W[``_]`_`[^]`a_]`^_Y`U]X^^¥__`_U

@HWI-EAS443:3:44:1537:1354#0/1
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+HWI-EAS443:3:44:1537:1354#0/1
aY`_bab^_a__a^__a¥_a_a^`Q`_^a_W[S]`H`N_^
@HWI-EAS443:3:44:1584:233#0/1
GGCATGACTTTGAAAGGGAAGGGTACTCACTGGTCGGGAT
+HWI-EAS443:3:44:1584:233#0/1
abbbbbbb`bbbaaabaa`abbaXa_aaa_a`^[Yaaa]]
@HWI-EAS443:3:44:1692:154#0/1
CACATTCTTTCATAAGCAACCCTTGCCTTCGTCCATTTT
+HWI-EAS443:3:44:1692:154#0/1
aaaabbaabbaaaa_a`aa]a`aaa_^__`_a^_[[____^
@HWI-EAS443:3:44:1768:1192#0/1
CAGAGCATCTGTCCGAAGAATGATTGGTGAATCGGGAGA
+HWI-EAS443:3:44:1768:1192#0/1
`aa`b[aa`b`_`^YP[a`aa]__a[YM`^P`_]`_^R_Y
@HWI-EAS443:3:44:1773:764#0/1
AAACGCTGAGATTGAAGACCTCATTTTCCTGGCACGGTCA
+HWI-EAS443:3:44:1773:764#0/1
abbaaaa`^babbb_aaa_baaaaa`aX`[aVaU``W¥]
@HWI-EAS443:3:44:1786:617#0/1
GGGTGAAAATGGACGAAGGACAAGGGTTGCTTATGAAAGA
+HWI-EAS443:3:44:1786:617#0/1
aaaXa^`a`aaa__a^]a`¥¥¥[]`_Y_a_]`^_]XY_Y
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+HWI-EAS443:3:44:185:470#0/1
ab`b_abab`aaaba`baba¥a_abaWa_[aa_a¥W`_a^
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+HWI-EAS443:3:44:192:143#0/1
aabaabaabb_baaabaababab_aaa^aaa`aaaa`_ba
@HWI-EAS443:3:44:213:870#0/1
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+HWI-EAS443:3:44:213:870#0/1
aabbaabb`aba`bbabaabaaaa_aaaa[[`aaabaa
@HWI-EAS443:3:44:223:376#0/1
CTTCCGACAGATGCTCTGATTTCTGTGGCATCCTGGCGCT
+HWI-EAS443:3:44:223:376#0/1
abbaabaaaaaaaaa_aaaa`a`^`aaa_a`Z[`^`Y[
@HWI-EAS443:3:44:403:1159#0/1
TGGGCATGACTTTGAAAGGGAAGGGTACTCACTGGTCGGG
+HWI-EAS443:3:44:403:1159#0/1
aa]____¥]_[abbbaYGWS^a`]aaQaa^^]U]aa[]`aa
@HWI-EAS443:3:44:420:651#0/1
GCTGTTTGAATTTTCTTTGAGGATATTGCACATTCTTT
+HWI-EAS443:3:44:420:651#0/1
aa^a_a_U¥^`_^]_____a`__`_¥¥^¥[[[[P[^[[_¥
@HWI-EAS443:3:44:440:764#0/1
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+HWI-EAS443:3:44:440:764#0/1
aaaaaaaa_¥`b`V^aa`¥abba^_a[Z`]PLZ`aa`[_a
@HWI-EAS443:3:44:573:48#0/1
GCTGGGTTTTTCATTTGGTCTCATCAGGCTGACCACTTGGC
+HWI-EAS443:3:44:573:48#0/1
aaabbbSa_^`aa`aa_a`a_`^^^aa_`[^_][a^
@HWI-EAS443:3:44:63:1582#0/1
GGAGGGGTGAAAATGGACGAAGGACAAGGGTTGCTTATGA
+HWI-EAS443:3:44:63:1582#0/1
`¥YY¥ULPY^MRY[^MY]¥TYVSNMJSMLNRSVUMS[TXR
@HWI-EAS443:3:44:654:198#0/1
CGACTTTCTCTTACTTGATCCATCATTGCCCTCTGGGCAG
+HWI-EAS443:3:44:654:198#0/1
a`aaaa`__¥_^_aa__`__a___^Z^_^]X]]_]]]
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+HWI-EAS443:3:44:655:1151#0/1
abbabaa`ab_a`_`a`aa]a`^`^`[____`aSaW^V_
@HWI-EAS443:3:44:706:856#0/1
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+HWI-EAS443:3:44:706:856#0/1
abaaab`b^baba`_ba]_Y`aa]^^ZZ¥baa[W¥]`____
@HWI-EAS443:3:44:714:503#0/1
CACATTCTTTCATAAGCAACCCTTGTCCTTCGCCATTTT
+HWI-EAS443:3:44:714:503#0/1
aaba`_`baaYaaaaa]^aaZ`_a`^]Z¥a]`_`[`ab`a
@HWI-EAS443:3:44:775:440#0/1
GGTCGGGATAGACCCATTCAAATTACTCCAAAACAGCCAA
+HWI-EAS443:3:44:775:440#0/1
`]V]VQ`MHT¥UNQVZ¥_XU]__W]U^_UVZQ]UY`WG¥T
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TGCTTTCTGCTTTTGATGAGAGAAGAAATAAATACCTAGA
+HWI-EAS443:3:44:796:1643#0/1
ZR]]aZ`ab`````_`aaa`a`aaaY¥aaa__a``aaa_
@HWI-EAS443:3:44:831:1803#0/1
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+HWI-EAS443:3:44:831:1803#0/1
^`ababbabbbabbaaabbaa_XaXaaa]_`RLXaaa__
@HWI-EAS443:3:44:863:1952#0/1
AGTGGTCAGCCTGATGAGACCAAATGAAAACCCAGCTCAC
+HWI-EAS443:3:44:863:1952#0/1
a`]]`]^_^^ZV__`[V_`^]_`^`_¥^_]_TVT_X^]¥YY
@HWI-EAS443:3:44:916:185#0/1
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+HWI-EAS443:3:44:916:185#0/1
a`^]a__]ORLY`QP[UV]Z_^¥XXR[TZYRMO_[WYMK
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ATCCCAGTGCTGGGAAGGACCCTAAGAAAACAGGAGGACC
+HWI-EAS443:3:44:935:1513#0/1
aaaaaab]]ba_aaaaabb`aa¥a```aaa]aaa`a``Z¥

@HWI-EAS443:3:44:946:355#0/1
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+HWI-EAS443:3:44:946:355#0/1
aaaaaaaaaa^aa^bZ`aa_a^__`_Z`¥_^__`_a^_^_
@HWI-EAS443:3:45:1108:709#0/1
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+HWI-EAS443:3:45:1108:709#0/1
abbbbab`_aaa_]UZaaa]¥VWaa_aaZ]^a¥]`W¥P^
@HWI-EAS443:3:45:1141:308#0/1
TCTGGGATCCATTCCGGTGCGAACAAGCGCTCTTGTTC
+HWI-EAS443:3:45:1141:308#0/1
`babb`bababaaaabZN_ab`b`aaa_a]_a``a`a_a]
@HWI-EAS443:3:45:1163:647#0/1
CAGGCAGGATTTATGTGCAACTGATCCCCTCAGAATGAGT
+HWI-EAS443:3:45:1163:647#0/1
ab``aaab]a]U]_IS^b^0¥`aabaaaaaab`_ab`_X
@HWI-EAS443:3:45:123:581#0/1
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+HWI-EAS443:3:45:123:581#0/1
aaabbb`X¥aaaaa`abbaaaa`^`]a¥aaWaaa^Z`Y__
@HWI-EAS443:3:45:1294:830#0/1
GCACATTCTTTATAAGCAACCCTTGCTTCCTCGTCCATTT
+HWI-EAS443:3:45:1294:830#0/1
a_W]_``a`a¥^a¥[U]Y]UY]`XYPJW`¥¥`]^ZV¥[[
@HWI-EAS443:3:45:130:777#0/1
TAACAATAGAGAGGATGGTGCTTTCTGCTTTTGATGAGAG
+HWI-EAS443:3:45:130:777#0/1
__a`[a`a¥_[a`]^b`Z¥RT]^Z`¥U¥_a`¥¥]_XZG^
@HWI-EAS443:3:45:1329:463#0/1
GGTGAATCGGGAGATTCTACATCCAAATGTGCACTGAAC
+HWI-EAS443:3:45:1329:463#0/1
a__a`^aaaa`_^aX`]_^`W]_^]__^^]ZaOWY^_^]Z
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+HWI-EAS443:3:45:136:725#0/1
`aa``_a_a`aa_G`a_aZb`_aa_a_X`_^__`_SZF[X
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+HWI-EAS443:3:45:1417:1533#0/1
a[]ZY_ZYXX[^¥Z[VVXQW^_V__^^]VQJNR[UUSVSY
@HWI-EAS443:3:45:1423:986#0/1
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+HWI-EAS443:3:45:1423:986#0/1
```¥aaaa]`aYa`[a]^a¥\_a`\_`\_^U\_\_\_\_\_a\_U]Z]]  
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GCTGACCGTGCCAGGAAAATGAGGTCTTCAATCTCAGCGT  
+HWI-EAS443:3:45:1505:562#0/1  
aaaaaaVYMOZY\_¥``\_aJ¥aY[¥MVYZNHVX^a\_[\_Z\_¥  
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+HWI-EAS443:3:45:1589:1004#0/1  
aaab``\_a]¥\_`aUX^[X¥Y¥W\_W]\_VYR^^Y¥`WZ\_\_¥[  
@HWI-EAS443:3:45:1590:985#0/1  
GCACCATCCTCTCTATTGTTATGCTATTCTGGATTAGTCG  
+HWI-EAS443:3:45:1590:985#0/1  
aaa^`X`\_]a^OZ^\_VT][¥[GWDMTY\_VMVYRT[[TLQRP  
@HWI-EAS443:3:45:1714:383#0/1  
GATTAGTCGTCATCATAATCACTGAGTTTGAGTTCAGTG  
+HWI-EAS443:3:45:1714:383#0/1  
aaabab`aaaa`aa`aaa\_aa\_aa\_`\_`a^`b¥`\_][ZZ`  
@HWI-EAS443:3:45:184:1324#0/1  
GCAGGTCTTACTCATATCATGATTTGGCATTCCAACCTGA  
+HWI-EAS443:3:45:184:1324#0/1  
`b\_\_][K\_`a```ab`a`W^XX`]a^`a`a`\_`^`^`^`OQ]  
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GATTGGTGAATCGGGAGATTCTACATCCAAATGTGCACT  
+HWI-EAS443:3:45:192:114#0/1  
a^aaaa¥b``\_]\_aaa`\_`\_^]\_\_^\_]\_Y\_\_\_\_\_YZQ^Z¥  
@HWI-EAS443:3:45:211:524#0/1  
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+HWI-EAS443:3:45:211:524#0/1  
a\_a\_\_ba`aaaa`^aa`\_a[aa¥abab\_aa\_b^^aa`¥a  
@HWI-EAS443:3:45:233:916#0/1  
AGAGAGGATGGTGCTTTCTGCTTTTGATGAGAGAAGAAAT  
+HWI-EAS443:3:45:233:916#0/1  
aaaaaabaab\_a`^a`^a¥Z\_abbTY]`X¥Zaa]¥¥a`]  
@HWI-EAS443:3:45:319:148#0/1  
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+HWI-EAS443:3:45:319:148#0/1  
`aaabaaaabbbbaabb`a`^a\_ab\_aa``aaa\_aa`]U¥\_  
@HWI-EAS443:3:45:376:1162#0/1  
GAGAGGATGGTGCTTTCTGCTTTTGATGAGAGAAGAAATA  
+HWI-EAS443:3:45:376:1162#0/1  
^a`b]baa]^P`^a¥aJ^a[``a`^^`\_S¥^\_Y`a^^^]¥  
@HWI-EAS443:3:45:414:592#0/1  
ATAGAGAGGATGGTGCTTTCTGCTTTTGATGAGAGAAGAA  
+HWI-EAS443:3:45:414:592#0/1  
`]X]X\_]baaX¥aVX¥P`]FW]QZ[a\_RS^]¥aU`ZR[\_]  
@HWI-EAS443:3:45:443:1245#0/1  
CAAACAGCTGCCAGAGGGCAATGATGGATCAAGTAAGAG  
+HWI-EAS443:3:45:443:1245#0/1  
abb`]abbabaa`\_aaba[Ybab^aba``¥H`]\_Wa\_b`b  
@HWI-EAS443:3:45:469:1993#0/1  
GTGCTTTCTGCTTTTGATGAGAGAAGAAATAAATACCTAG  
+HWI-EAS443:3:45:469:1993#0/1  
a\_W`\_RFJ]`¥YU^U[U\_``\_`^`¥F[ZaWXa\_a]`¥GY`X  
@HWI-EAS443:3:45:589:484#0/1  
GAGGGGTGAAAATGGACGAAGGACAAGGGTTGCTTATGAA  
+HWI-EAS443:3:45:589:484#0/1  
¥[\_`^``aaaa`^a``]ab\_Y\_b`]`a`^`^``Zaaaaa\_

@HWI-EAS443:3:45:629:1283#0/1  
GCACATTCTTTTCATAAGCAACCCTTGCCTTCGCCATTT  
+HWI-EAS443:3:45:629:1283#0/1  
a`]GYaa]`a`Y^aa^¥Y[¥^\_a^`^\_V\_\_V\_RUX]\_`]  
@HWI-EAS443:3:45:668:299#0/1  
GTGCTTTCTGCTTTTGATGAGAGAAGAAATAAATACCTAG  
+HWI-EAS443:3:45:668:299#0/1  
\_[ZX]``^^`\_`^¥][\_aR\_S¥YZ\_^`^¥ZZYV¥WYVa\_  
@HWI-EAS443:3:45:736:723#0/1  
TGTCGGAAGAATGATTGGTGAATCGGGAGATTCTACATC  
+HWI-EAS443:3:45:736:723#0/1  
abaabbaaaaaaaaa`aa¥[\_a`a`\_aa`\_a]aa`a`^`\_`Y  
@HWI-EAS443:3:45:845:38#0/1  
ATTGGTGAATCGGGAGATTCTACATCCAAATGTGCACTG  
+HWI-EAS443:3:45:845:38#0/1  
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ATGCCACATATCAGAGAACAAGAGCGCTTGTTCGCACCGG  
+HWI-EAS443:3:45:886:737#0/1  
`^[\_¥I\_bba`U`^W¥`a`b`\_a\_]\_[a^^V`aba]XVaa  
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CCCTTGTCTTCGCCATTTTCACCCCTCCAGAAATTTTCG  
+HWI-EAS443:3:45:892:287#0/1  
aaabab\_a]¥a\_a\_]a[\_aaaaa\_``[\_a[`\_\_\_\_¥^\_\_  
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GGTCAGCACTCATTCTGAGGGGATCAGTTGCACATAAATC  
+HWI-EAS443:3:45:948:123#0/1  
a`NYZaWN[\_[0]^RQURZ^U^ZVNR^PGYKNT[YNPTWB  
@HWI-EAS443:3:45:948:1480#0/1  
CTCCTGTTTTCTTAGGGTCTTCCCAGCACTGGGATGCTC  
+HWI-EAS443:3:45:948:1480#0/1  
abba]]]bbbbbb^bbbaa]\_`b`Y]`aba`babb`ab\_aa  
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ACTTCCCAGAAGGTCTGGTGCCGCAGGTGCTGCGGTGAAA  
+HWI-EAS443:3:45:954:500#0/1  
\_`\_R``\_`baab\_GT^abYaXO]]]¥a¥VX\_``\_T\_ZBBBBB  
@HWI-EAS443:3:46:1066:240#0/1  
GAGAGGATGGTCTTTCTGCTTTTGATGAGAGAAGAAATA  
+HWI-EAS443:3:46:1066:240#0/1  
a^a]¥\_`Y\_aR]QZ^^T^¥X^`]^`^W¥ZO]XXXVZW]X]Y  
@HWI-EAS443:3:46:1085:1058#0/1  
GTGGTCAGCCTGATGAGACCAAATGAAAACCCAGCTCACA  
+HWI-EAS443:3:46:1085:1058#0/1  
]L¥X\_`U\_[UXZOSVYXFRVY`aVTZNVUR]^`[\_[ML¥NR  
@HWI-EAS443:3:46:1104:1651#0/1  
GTGCTGGGAAGGACCCTAAGAAAACAGGAGGCCCATATA  
+HWI-EAS443:3:46:1104:1651#0/1  
`\_a\_``\_``a``\_YX\_aa`^]a`aYaaaVa^^XX\_`^`\_`\_  
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GAATGATTGGTGAATCGGGAGATTCTACATCCAAATGTG

+HWI-EAS443:3:46:117:700#0/1  
ab^X`Xa`^W[`a\_a`aa`¥W]]Z`a^V¥`¥YOY\_^^ZW\_  
@HWI-EAS443:3:46:1266:1282#0/1  
CTGGATTAGTCGTCCATCATAATCACTGAGTTTGAGTTCA  
+HWI-EAS443:3:46:1266:1282#0/1  
abbaabbbba\_aa\_\_bbab`bba]aZab^b\_aab\_a\_a^`  
@HWI-EAS443:3:46:1296:1273#0/1  
GGGTCCTCCTGTTTTCTTAGGGTCCTTCCCAGCACTGGGA  
+HWI-EAS443:3:46:1296:1273#0/1  
aba\_aaaa`aS`baaaaaa\_\_a`aW`\_`\_`RX`\_`aaaY  
@HWI-EAS443:3:46:1365:16#0/1  
CTGAACTCAAACCTCAGTGATTATGATGGACGACTAATCCA  
+HWI-EAS443:3:46:1365:16#0/1  
a]b`abb`a```aaaa\_b]a`aaa`\_`^^\_a\_]\_`^`V\_\_  
@HWI-EAS443:3:46:1383:83#0/1  
ATTGTTCCAACCTTTTACCAGCACCTGCGGCACCAG  
+HWI-EAS443:3:46:1383:83#0/1  
Tba`\_]`^a^Zaaabb\_`bZ¥```a]```a```]VY^UX¥  
@HWI-EAS443:3:46:1469:436#0/1  
AAAAGCAGAAAGCACCATCCTCTCTATTGTTATGCTATTC  
+HWI-EAS443:3:46:1469:436#0/1  
abaa^`aa` `[`¥]¥Z\_a` `a` ``^¥^¥Y¥^\_]`^`¥UYW  
@HWI-EAS443:3:46:1546:37#0/1  
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+HWI-EAS443:3:46:1546:37#0/1  
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+HWI-EAS443:3:46:1640:636#0/1  
`aaba\_ab\_H` `[bb^`\_aaaa`X]`UV[``\_aa`\_`\_`\_a  
@HWI-EAS443:3:46:1676:1023#0/1  
CCCAGTGCTGGGAAGGACCCTAAGAAAACAGGAGGCCCA  
+HWI-EAS443:3:46:1676:1023#0/1  
aWZ\_b`b`bY]¥¥`\_`^ZZYW`\_TP^VZ]`\_¥`\_T¥WVT  
@HWI-EAS443:3:46:1701:972#0/1  
CTAATCCAGAATAGCATAACAATAGAGAGGATGGTGCTTT  
+HWI-EAS443:3:46:1701:972#0/1  
abbab`a]aaaaa`aaaa¥\_\_aaa^`\_aa]\_a`]aY\_\_`  
@HWI-EAS443:3:46:188:1062#0/1  
ATCAGAGCATCTGTCGGAAGAATGATTGGTGAATCGGGA  
+HWI-EAS443:3:46:188:1062#0/1  
ab¥[W`aaaaaaaT]¥` `\_Z]¥ZRU]]][TN\_W\_]S]]]¥  
@HWI-EAS443:3:46:196:102#0/1  
GGGTCCTCCTGTTTTCTTAGGGTCCTTCCCAGCACTGGGA  
+HWI-EAS443:3:46:196:102#0/1  
a\_\_G[\_\_\_\_]^ZUZ\_Z^\_T^`RYU`X]Z^X]]VTQV]]TTU  
@HWI-EAS443:3:46:358:1297#0/1  
GCTGTTGCATCTTCGCCATTGTTTGCTTGGCGCCAAACTC  
+HWI-EAS443:3:46:358:1297#0/1  
abb^`X\_aT\_aa\_]`^`a\_ab]Pa`R` `ZV`\_` [[\_` [R¥Y



@HWI-EAS443:3:46:403:1185#0/1  
GTGGAATCGGGAGATTCTACATCCAAATGTGCACTGAACT  
+HWI-EAS443:3:46:403:1185#0/1  
a\_^Xa^`W¥¥\_WSIW`¥`]]¥¥Y]¥]Y\_]S] []VTEX`HR  
@HWI-EAS443:3:46:438:135#0/1  
GTGCAACTGATCCCCTCAGAATGAGTGCTGACCGTGCCAG  
+HWI-EAS443:3:46:438:135#0/1  
aabababaabbb\_`aaa\_baaaaab``]aaaa¥\_¥aa¥\_^  
@HWI-EAS443:3:46:51:1482#0/1  
GAGATTGAAGACCTCATTTTCCTGGCACGGTCAGCACTCA  
+HWI-EAS443:3:46:51:1482#0/1  
\_X\_RO`^`ZT¥ZZ\_WOT`aaaaSaX]BBBBBBBBBBBBBB  
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ATATCCTCAAAGGAAAATTTCAAACAGCTGCCAGAGGGC  
+HWI-EAS443:3:46:599:228#0/1  
aaaa^`aa`^abaaaaaa\_a`]][]`a\_[a\_¥]¥aZa[`¥  
@HWI-EAS443:3:46:634:273#0/1  
GAAATAAATACCTAGAAGAGCATCCCAGTGCTGGGAAGGA  
+HWI-EAS443:3:46:634:273#0/1  
a\_aaaaa```a\_aaa\_a\_a\_`a\_\_`a\_a^\_a]a]]\_]]  
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GGGGATCAGTTGCACATAAATCCTGCCTGCCTGCTTGTGT  
+HWI-EAS443:3:46:690:600#0/1  
a\_a`RWW]`Z`Y^XZ^`X`[^ZU^Z^¥\_[S¥`^Z^\_U\_S  
@HWI-EAS443:3:46:784:1973#0/1  
ATTTGGATGTAGAATCTCCCGATTCCACCAATCATTCTTC  
+HWI-EAS443:3:46:784:1973#0/1  
aaaa[]b\_^Y][\_a\_\_`^^\_]\_`¥WZWQ\_\_]Z^]R\_]0  
@HWI-EAS443:3:46:797:1943#0/1  
GATGGACGACTAATCCAGAATAGCATAACAATAGAGAGGA  
+HWI-EAS443:3:46:797:1943#0/1  
a\_`IZ^]]aaa`]UVab`aaa\_a][aY``a`a`aa`\_]`^`  
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AGAGGATGGTGCTTTCTGCTTTTGATGAGAGAAGAAATAA  
+HWI-EAS443:3:46:926:616#0/1  
aa\_¥\_^aba\_a`\_\_a]a\_^`a`a¥X\_`[^a^`a\_\_\_\_\_¥  
@HWI-EAS443:3:46:942:24#0/1  
ATTGCCCTCTGGGCAGCTGTTTGAAATTTTCCTTTGAGGA  
+HWI-EAS443:3:46:942:24#0/1  
`aaa```aa``^`\_`a^`a^aaaZZY`\_aa¥\_a\_aa]a`^  
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CTCTCATCAAAAAGCAGAAAGCACCATCCTCTCTATTGTTA  
+HWI-EAS443:3:46:954:1939#0/1  
aab\_bbbaaaa\_aaaa^`bbab]Z\_]UZa`a\_`aaaaW\_a  
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ATGGGTCCTCCTGTTTTCTTAGGGTCCTTCCCAGCACTGG  
+HWI-EAS443:3:47:1002:1412#0/1  
a`aa`\_abbaab^abaa\_`a`^aXU``¥`\_```[V^]```\_  
@HWI-EAS443:3:47:1081:779#0/1  
CTCAAACCTCAGTGATTATGATGGACGACTAATCCAGAATA

+HWI-EAS443:3:47:1081:779#0/1  
abbabZbbbaababbbbabbaa`ba`aaaa`Vaaa`a\_  
@HWI-EAS443:3:47:1092:1486#0/1  
GGGTTTTTCATTTGGTCTCATCAGGCTGACCACTTGGCTGT  
+HWI-EAS443:3:47:1092:1486#0/1  
ab`[aa``aaa`^a¥\_a\_a`\_]`a\_Yaa\_^[\_X\_\_^UU\_dM  
@HWI-EAS443:3:47:1131:840#0/1  
AATGGACGAAGGACAAGGGTTGCTTATGAAAGAATGTGCA  
+HWI-EAS443:3:47:1131:840#0/1  
[^aa`\_¥a`\_ba[^a`^`a]ZaS`])a[^`^`a]aab[W  
@HWI-EAS443:3:47:1140:1601#0/1  
TGGACGACTAATCCAGAATAGCATAACAATAGAGAGGATG  
+HWI-EAS443:3:47:1140:1601#0/1  
Y\_V^Y`X\_\_`V^\_b`a^Y`baaZa\_P\_`]TX\_]Z`Z]¥`  
@HWI-EAS443:3:47:1366:1571#0/1  
GTGCTTTCTGCTTTTGATGAGAGAAGAAATAAATACCTAG  
+HWI-EAS443:3:47:1366:1571#0/1  
]`bab^aab`\_Vab^abS¥¥[\_b`W^¥`JZ^``]UWS^^a  
@HWI-EAS443:3:47:1418:170#0/1  
GAAGGACAAGGGTTGCTTATGAAAGAATGTGCAATATCCT  
+HWI-EAS443:3:47:1418:170#0/1  
a[W^ba`ba`Z]ZVa]a^]¥XQa\_]SNW]L]UZV\_`^SY[  
@HWI-EAS443:3:47:1436:1786#0/1  
CTGCTGTTGCATCTTCGCCATTGTTTGCTTGGCGCCAAAC  
+HWI-EAS443:3:47:1436:1786#0/1  
¥bb\_bbabb`\_baba`a`\_aaa`aab¥W``HYZPZZ^ZR  
@HWI-EAS443:3:47:1554:1630#0/1  
GGATGGTCTTTCTGCTTTTGATGAGAGAAGAAATAAATA  
+HWI-EAS443:3:47:1554:1630#0/1  
aY[\_WXZ]`[\_a\_]Z`SW^`^P\_RR¥RSSPUX][\_]`^]`^Q  
@HWI-EAS443:3:47:1643:414#0/1  
GATCAGTTGCACATAAATCCTGCCTGCCTGCTTGTGTGTA  
+HWI-EAS443:3:47:1643:414#0/1  
`[aaabT]b\_a^`aaa`aU\_`^¥Z\_a\_¥¥a¥\_¥\_UZW\_W¥  
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GAGGGGTGAAAATGGACGAAGGACAAGGGTTGCTTATGAA  
+HWI-EAS443:3:47:1663:1597#0/1  
a`baaa^a``aab`a`\_a`\_a`\_¥`^`\_]Z\_\_[^`^`\_`^`  
@HWI-EAS443:3:47:1666:1201#0/1  
ATAACAATAGAGAGGATGGTCTTTCTGCTTTTGATGAGA  
+HWI-EAS443:3:47:1666:1201#0/1  
a`aa\_bbbbb`a^``aaaZFV¥S`]T¥X``aa\_XO]OQ¥F  
@HWI-EAS443:3:47:1668:803#0/1  
GAAATAAATACCTAGAAGAGCATCCCAGTGCTGGGAAGGA  
+HWI-EAS443:3:47:1668:803#0/1  
a`a`aaaaa^¥`aa^``\_`\_]VYY^V\_]`\_`^]`^W[  
@HWI-EAS443:3:47:1672:440#0/1  
GGAGGGGTGAAAATGGACGAAGGACAAGGGTTGCTTATGA  
+HWI-EAS443:3:47:1672:440#0/1  
`a`bbbb\_baaaaabaaaa\_]aa¥T\_\_]aa]aa¥`a``[X

@HWI-EAS443:3:47:1718:1288#0/1  
GACTAATCCAGAATAGCATAACAATAGAGAGGATGGTGCT  
+HWI-EAS443:3:47:1718:1288#0/1  
aa`aaaaaaaa`\_a`\_`\_`a`\_\_^`\_a^`\_a\_\_]^WTV  
@HWI-EAS443:3:47:1722:591#0/1  
GTGAAAATGGACGAAGGACAAGGGTTGCTTATGAAAGAAT  
+HWI-EAS443:3:47:1722:591#0/1  
^L[\_`\_]`¥\_R\_\_^`X^OT¥Z\_YQO`YU¥UT¥^XZW\_ZW¥  
@HWI-EAS443:3:47:1737:219#0/1  
TGCACATTTGGATGTAGAATCTCCCGATTCCACCAATCAT  
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aaa`aaaaaaaa`\_a]\_\_\_\_[X]XWZUVVY]]UXX^YVYY  
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GCAAGGTTCAACACTTCCCAGAAGGTCTGGTGCCGCAGGT  
+HWI-EAS443:3:47:251:548#0/1  
\_aaa\_a¥`aaa`¥a^`^¥Q`N¥`¥ZY`\_a¥`^X¥]¥a`T  
@HWI-EAS443:3:47:270:670#0/1  
GGCTTGCAGTAGCAAGTGGGCATGACTTTGAAAGGGAAGG  
+HWI-EAS443:3:47:270:670#0/1  
`b^aab]`aZ`baa]aUa``TMMYLta\_aaRSW\_aa[^]\_  
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GTGCTTTCTGCTTTTGTAGAGAGAAGAAATAAATACCTAG  
+HWI-EAS443:3:47:353:1610#0/1  
aI[XXT\_]Y\_QXLY]]K^^ZWR]WTXW\_[^\_W^UXHMS^]  
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GGGTCCTCCTGTTTTCTTAGGGTCCTTCCCAGCACTGGGA  
+HWI-EAS443:3:47:485:1547#0/1  
aa^Uaaa`aab`\_\_[\_a`\_\_`\_Y\_Y\_[¥U¥`\_U¥W¥\_[SN  
@HWI-EAS443:3:47:498:17#0/1  
GTGAAAATGGACGAAGGACAAGGGTTGCTTATGAAAGAAT  
+HWI-EAS443:3:47:498:17#0/1  
aYa^^^Y\_a`\_T`¥]\_]WWVX\_^WVZ[T[]Y^`WUX\_ZZZ  
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GTCCTCCTGTTTTCTTAGGGTCCTTCCCAGCACTGGGATG  
+HWI-EAS443:3:47:625:708#0/1  
a\_b^^^abbababababaaa\_\_`a`¥`ZaY\_\_a\_X\_\_`  
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GTCCTCCTGTTTTCTTAGGGTCCTTCCCAGCACTGGGATG  
+HWI-EAS443:3:47:712:1245#0/1  
a`abaaab`baa`aa`\_\_Y`a\_]V[\_a\_]\_``[\_Y`\_  
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+HWI-EAS443:3:47:786:626#0/1  
aa`abbaaabbaabb]`aba`\_aaaa\_]\_OYZV]Y\_^¥`\_  
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ATTCCGGTGC GAACAAGCGCTCTTGTCTCTGATATGTGG  
+HWI-EAS443:3:47:797:226#0/1  
M\_]bb`b\_WY^abab`a\_aT^aZ[¥ZaP^]^`\_`^\_¥  
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+HWI-EAS443:3:47:915:800#0/1  
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CAGGAAACGCTGAGATTGAAGACCTCATTTTCCTGGCACG  
+HWI-EAS443:3:47:925:842#0/1  
\_XWWPW\_aVY^UVVZ¥aa`ZXH\_OS]ZW¥OMYHQ]]VHPY  
@HWI-EAS443:3:47:947:186#0/1  
TGCCCGAGGTGCTGCGGTGAAAGGAGTTGGAACAATAGCA  
+HWI-EAS443:3:47:947:186#0/1  
aa`ab¥Zaa]a`\_`S]`R\_SSZTYNYLX[`V¥PSPUUWTU  
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GAATGATGCCACATATCAGAGAACAAGAGCGCTTGTTTCGC  
+HWI-EAS443:3:47:960:711#0/1  
^VZX^00\_]T^OY]ZU^\_]^\_¥`][\_]IXZXI]ZWIR¥  
@HWI-EAS443:3:48:1031:1394#0/1  
CTAATCCAGAATAGCATAACAATAGAGAGGATGGTGCTTT  
+HWI-EAS443:3:48:1031:1394#0/1  
^`\_a`a`^aU[`^ZOW[OU\_[U`]aQa]\_a\_^`\_I]MU]¥  
@HWI-EAS443:3:48:1040:808#0/1  
CGTCCATCATAATCACTGAGTTTGAGTTGAGTGCACATTT  
+HWI-EAS443:3:48:1040:808#0/1  
`a`a\_ab\_abaaa`aaab^b`aaa\_a^`^^^a\_a^`a`  
@HWI-EAS443:3:48:106:1745#0/1  
TTCCTGGGTTTCGACTTTCTTACTTGATCCATCATTGC  
+HWI-EAS443:3:48:106:1745#0/1  
a`a\_a^a\_0`^`^`\_a¥]`^Y^^¥`W\_]^^\_]^^  
@HWI-EAS443:3:48:1079:759#0/1  
CTGGGATCCATTCCGGTGCGAACAAGCGCTCTTGTTCTCT  
+HWI-EAS443:3:48:1079:759#0/1  
aba`]\_\_b`\_b`^`a\_^\_bab`a`^`aaaaa\_bab`a[a\_a  
@HWI-EAS443:3:48:1085:88#0/1  
GGTACTCACTGGTCGGGATAGACCCATTCAAATTACTCCA  
+HWI-EAS443:3:48:1085:88#0/1  
a[P[aba`\_ab^UXbbbU`¥YRUHQ[R\_XVVR\_aVKYXRV  
@HWI-EAS443:3:48:1162:286#0/1  
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+HWI-EAS443:3:48:1162:286#0/1  
\_¥`^\_VLZ[\_]ZXY[`a¥Xa^NZX¥YYTNY¥QS[ZRMT[N  
@HWI-EAS443:3:48:1246:827#0/1  
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+HWI-EAS443:3:48:1246:827#0/1  
abbbabaa`abab`b\_aabba`a\_aaa^aa\_]`aa`a`  
@HWI-EAS443:3:48:1307:504#0/1  
GTTCAACACTTCCCAGAAGGTCTGGTGCCGCAGGTGCTGC  
+HWI-EAS443:3:48:1307:504#0/1  
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+HWI-EAS443:3:48:1360:71#0/1  
\_bbbaa^bbabb`abb\_babba\_bbbaba^aa`aaa\_\_\_\_

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+HWI-EAS443:3:48:1449:705#0/1  
a]Z]a¥a`\_a`b\_aa```aaa`aa\_``\_^^a^Za`VaaW  
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ACCTGCTGTTGCATCTTCGCCATTGTTTGCTTGCGCCAA  
+HWI-EAS443:3:48:1513:203#0/1  
a]\_a``aaR`YZQ¥P\_`LMQ¥YYaY^\_FQX^WYQQJPWZ  
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GCTTTCTGCTTTTGATGAGAGAAGAAATAAATACCTAGAA  
+HWI-EAS443:3:48:1631:795#0/1  
\_XTWVX¥]HW\_V`a]^a¥`[[VPZ]^XXWZXXSTY]YNR  
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+HWI-EAS443:3:48:1644:1174#0/1  
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@HWI-EAS443:3:48:165:1537#0/1  
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+HWI-EAS443:3:48:165:1537#0/1  
aaH\_]a\_a\_ba\_baa]aa`a`a`\_`\_aaTa\_X[\_a^^¥\_a  
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+HWI-EAS443:3:48:1746:1472#0/1  
a`Y`U`\_^]a\_`\_a]]SW\_¥`^`W`\_`Y`ZY[^WU\_`\_]\_  
@HWI-EAS443:3:48:1777:988#0/1  
GATCAAGTAAGAGAAAGTCGAAACCCAGGAAACGCTGAGA  
+HWI-EAS443:3:48:1777:988#0/1  
a`a\_``b`a]a\_a\_``a`\_``\_Z\_^`^`^¥^V^V^\_Y[Y  
@HWI-EAS443:3:48:1791:170#0/1  
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+HWI-EAS443:3:48:1791:170#0/1  
`abaaaaaaaaa\_`¥`\_`a`\_`a^]aZ\_`[WZ\_W^URU¥  
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+HWI-EAS443:3:48:181:601#0/1  
¥\_a`bbbbbaabbabbabaaY`bba`bbbab`]Kabbb`  
@HWI-EAS443:3:48:258:1480#0/1  
GAAATAAATACCTAGAAGAGCATCCCAGTGCTGGGAAGGA  
+HWI-EAS443:3:48:258:1480#0/1  
aa\_a]a`aaaa`aaaa\_````^¥aa^`Xa^\_a\_\_X^\_^]  
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ACTTCCCAGAAGGTCTGGTGCCGAGGTGCTGCGGTGAAA  
+HWI-EAS443:3:48:430:643#0/1  
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AGGATGGTGCTTTCTGCTTTTGATGAGAGAAGAAATAAAT  
+HWI-EAS443:3:48:468:1438#0/1  
¥P\_`[^aTa`b`ba`Z`bab`YaX`Z`\_^UX]`aa`a\_`\_  
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GCTTTCTGCTTTTGATGAGAGAAGAAATAAATACCTAGAA

+HWI-EAS443:3:48:481:169#0/1  
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+HWI-EAS443:3:48:569:80#0/1  
aa[aaaa`\_`b\_^a\_a^``^W\_^a)`\_]^[XX]VU¥XX  
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GGGTGAAAATGGACGAAGGACAAGGGTTGCTTATGAAAGA  
+HWI-EAS443:3:48:588:330#0/1  
aa`[aWa\_`aba\_`b\_`aa\_^]^\_\_a)\_`^`\_]^\_^^Z¥¥^  
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CTCACTGGTCGGGATAGACCCATTCAAATTACTCCAAAAC  
+HWI-EAS443:3:48:603:1048#0/1  
a`[^NZX[XX^aa¥` `a`VSX\_WR]aV[aZRP¥TRY¥¥Z\_  
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+HWI-EAS443:3:48:604:478#0/1  
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TTCCGGTGCGAACAAGCGCTCTTGTTCTCTGATATGTGGC  
+HWI-EAS443:3:48:608:58#0/1  
a`][`\_Z`¥a`\_^`\_aW^^\_]`\_^`\_`\_¥V¥`]^`\_X`TW  
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aa`aababaaaaa]bab``\_aba`a`aba`abaS\_b\_aV  
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+HWI-EAS443:3:48:662:284#0/1  
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+HWI-EAS443:3:48:687:443#0/1  
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+HWI-EAS443:3:48:742:256#0/1  
abbababba\_N¥baa`ba\_aaa` `a`^`\_` `aZ` \_\_\_\_]\_  
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CAGCGTTTCCTGGGTTTCGACTTTCTCTTACTTGATCCAT  
+HWI-EAS443:3:48:773:1007#0/1  
aa`^a`abaaaaa\_abaa`\_aaa^a\_aaa^aaaa`[[`a  
@HWI-EAS443:3:48:786:1731#0/1  
AACAAATAGAGAGGATGGTGCTTTCTGCTTTTGATGAGAGA  
+HWI-EAS443:3:48:786:1731#0/1  
ab]aab]baa`baa`a]F]S`^a]W]QW]aa`Y^`¥[W\_S  
@HWI-EAS443:3:48:904:1477#0/1  
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+HWI-EAS443:3:48:904:1477#0/1  
aaaa`aa]baa\_` `aaa\_aa^¥` `aZa\_¥\_` ¥¥¥\_[V[\_\_\_

@HWI-EAS443:3:48:909:334#0/1  
GAATGATTGGTGAATCGGGAGATTCTACATCCAAATGTG  
+HWI-EAS443:3:48:909:334#0/1  
aaa`a\_b]a\_N\_RNR`a\_Z]\_XX[]^RHSYQO[UZ[WGY  
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AGAGCATCTGTCTGGAAGAATGATTGGTGAATCGGGAGAT  
+HWI-EAS443:3:48:911:711#0/1  
a[aaaba`bb\_aaa\_\_b]¥a`a\_aaQ\_aZ`Y\_a\_]`X]  
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GACAGATGCTCTGATTTCTGTGGCATCCTGGCGCTCCCCA  
+HWI-EAS443:3:48:973:598#0/1  
a`[a]Yab\_a]aa\_aaa`\_a^]][^\_VU^`[\_YUQVWTT  
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+HWI-EAS443:3:49:102:1881#0/1  
\_]`aa\_Z`aa\_b\_a\_b^ab^¥aa`YRX`\_a\_ZT[`a\_^Z  
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+HWI-EAS443:3:49:1103:1848#0/1  
ab\_bbbbbababb¥aaabaaa`abbb\_bab`aba`a\_b`[  
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+HWI-EAS443:3:49:1107:605#0/1  
aa`a\_babbaab¥[]]\_bb[``N^abbY[aa[\_X]^a\_`  
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ATGATTGGTGAATCGGGAGATTCTACATCCAAATGTGCA  
+HWI-EAS443:3:49:1179:234#0/1  
\_^`^a^)]\_[aZ\_aVab\_\_`\_\_W\_\_`¥Y¥XV\_\_\_\_[OYWZ  
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+HWI-EAS443:3:49:1197:837#0/1  
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+HWI-EAS443:3:49:1249:141#0/1  
abb`b[aa``¥\_]ba^a`Ya¥`aaa]R]a``\_aab]QZ[]  
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GGTCTTTCTGCTTTTGATGAGAGAAGAAATAAATACCTA  
+HWI-EAS443:3:49:1256:1809#0/1  
ab^a]a`a\_aa]\_aaaaaa^aY]\_^a^\_^[\_^a^Y]\_\_  
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+HWI-EAS443:3:49:1353:995#0/1  
\_N¥`S`\_¥^`VRYP¥`¥¥¥`W`^^¥¥V^WW¥¥W\_VVWWW  
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+HWI-EAS443:3:49:1400:1037#0/1  
aUR¥Y\_^Z]`Y^Z¥\_U`^`ZZVVVYV]Z¥Y[V[X]WT  
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+HWI-EAS443:3:49:1400:2027#0/1  
a]bb¥aa\_aa`a\_\_a`a`\_\_a\_aZa\_W`\_^]\_^]WYY  
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+HWI-EAS443:3:49:142:305#0/1  
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+HWI-EAS443:3:49:1444:309#0/1  
\_`\_X\_bbaab`V^\_b\_WWUW[¥`YFW\_\_`a`^`^U[ZUX]  
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CATTGCCCTCTGGGCAGCTGTTTAAAATTTTCCTTTGAGG  
+HWI-EAS443:3:49:1480:1851#0/1  
abaa``abaaaa`babbabb\_bb`]babbbbaabbbbab`  
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+HWI-EAS443:3:49:1494:835#0/1  
a``\_bbbabb\_^aababaaabbaabbbab`aaa\_aaab\_\_  
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+HWI-EAS443:3:49:1622:199#0/1  
`aaaaZ¥``bb\_¥\_¥``abb\_X\_^Z\_]`¥[R`]a^`^][Y  
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CGCCAAGCAAACAATGGCGAAGATGCAACAGCAGGTCTTA  
+HWI-EAS443:3:49:1699:1052#0/1  
ab`babbababaaaaaaaaa`a^a\_aa`aa\_\_a`UZ`a\_  
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AGTGAGTACCCTTCCCTTTCAAAGTCATGCCCACTTGCTA  
+HWI-EAS443:3:49:1708:1394#0/1  
aa]aba`[\_aaa`S`a\_X`\_`WZR^\_T]W^][\_\_^V^Y  
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AGTAATTTGAATGGGTCTATCCCGACCAGTGAGTACCCTT  
+HWI-EAS443:3:49:1743:1510#0/1  
ab\_aab[`b`\_a\_Q[\_\_aaaWY\_aa¥¥\_\_U\_]\_T\_TUW]\_  
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ATCAGGCTGACCACTTGGCTGTTTTGGAGTAATTTGAATG  
+HWI-EAS443:3:49:179:740#0/1  
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@HWI-EAS443:3:49:210:894#0/1  
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+HWI-EAS443:3:49:210:894#0/1  
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+HWI-EAS443:3:49:283:1519#0/1  
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@HWI-EAS443:3:49:326:786#0/1  
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+HWI-EAS443:3:49:326:786#0/1  
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+HWI-EAS443:3:49:387:242#0/1  
abb`V[bbaba¥a^HYVa`aYa`U^baaUS^\_a^a\_``  
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+HWI-EAS443:3:49:431:561#0/1  
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+HWI-EAS443:3:49:476:141#0/1  
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+HWI-EAS443:3:49:499:949#0/1  
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GGCTTGCAAGTGGCATGACTTTGAAAGGGAAGG  
+HWI-EAS443:3:49:536:732#0/1  
a`aa^]\_aaaaZ`aaUbaaY\_a\_\_^aa``]\_\_a\_a^^`  
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a\_aaYaZ¥]^T`]Za\_\_a[V`\_\_aa\_aaaU[U\_XU[^\_Za  
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GAGGATGGTGTCTTTCTGCTTTTGATGAGAGAAGAAATAAA  
+HWI-EAS443:3:49:677:606#0/1  
aa]a`aa`PX^^`Qa\_]`a^\_a^[[[]]X\_]`\_]\_^Y¥\_\_  
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+HWI-EAS443:3:49:732:1776#0/1  
T¥\_a\_ba`¥^]Zbbb`^`¥¥`b\_W\_b^b`]aaZ]\_aaa`  
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+HWI-EAS443:3:49:755:1024#0/1  
a\_a`a¥Z]a\_ba]]\_XU^\_\_^\_Y¥bZ]^a^VR\_[S\_]HZM  
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+HWI-EAS443:3:49:820:472#0/1  
a¥^]`aR^aaaa`b`b^aa`¥]YY`\_aa[Z¥]¥```a`Y  
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TAACAATAGAGAGGATGGTGCTTTCTGCTTTTGATGAGAG  
+HWI-EAS443:3:49:824:48#0/1  
aaaaaaaa`b`b`a\_V\_aaPaW\_^`[]XRYa`a\_X¥^V]Y\_  
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GAGAGTTTGGCGCCAAGCAAACAATGGCGAAGATGCAACA  
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+HWI-EAS443:3:49:901:1431#0/1  
^b`aababbbabb\_Yabaaaaa\_aaa\_\_aa]a`````\_a^  
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+HWI-EAS443:3:4:1062:1021#0/1  
\_b`aaa¥a`baabb\_aVabXGRb`aTa`a[H\_[a`T[]]Y  
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+HWI-EAS443:3:4:1161:1519#0/1  
aba^^ZZ`aZWZ\_^`S^bRX¥\_aa\_\_\_\_\_]\_]\_^OLY^^`  
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+HWI-EAS443:3:4:1238:454#0/1  
aaa`ba¥ab`La[aXaaab`\_a`a¥\_a¥`^a``\_¥¥BBBB  
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+HWI-EAS443:3:4:1250:159#0/1  
aabaa\_¥]aa^^\_X^^^a`^^^\_X]¥VX\_^YV]Y\_]`  
@HWI-EAS443:3:4:1331:193#0/1  
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+HWI-EAS443:3:4:1331:193#0/1  
^abbbb`a`a`baabaa^a^b¥a`a\_]`[aa]``a`

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+HWI-EAS443:3:4:1378:1419#0/1  
a`a^Xa`a\_a\_ab`ZX`aa`aaa`Z\_Z[aa\_aaa`\_X\_  
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+HWI-EAS443:3:4:1443:903#0/1  
a` [¥a`NaU^`aUX]^a^\_\_]ZU\_^\_^\_U\_]WW^Y\_XY  
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+HWI-EAS443:3:4:1650:1077#0/1  
aaU¥a`X`aa^¥a`aXa`a`\_]`[``]`^`U`a^`^`  
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+HWI-EAS443:3:4:173:988#0/1  
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+HWI-EAS443:3:4:182:1201#0/1  
aa0QWZ^Va[\_]\_a`Za\_\_YP]Z`R]^R^`\_¥\_¥aZ\_UV  
@HWI-EAS443:3:4:194:133#0/1  
GTGCTTTCTGCTTTTGATGAGAGAAGAAATAAATACCTAG  
+HWI-EAS443:3:4:194:133#0/1  
a\_b^aaa\_aa¥`]a\_\_a`\_a]a`\_a`PY^\_Z^^^\_[^\_  
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]T\_W\_bb\_a\_aW`aZ]]`^V¥¥Z\_Y^aa`[N¥W]][^]`\_  
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GAGAGGATGGTGCTTTCTGCTTTTGATGAGAGAAGAAATA  
+HWI-EAS443:3:4:516:790#0/1  
a`a^aa^a¥`L[a`]]`U`\_a`\_\_`a]\_\_`^`\_`^`\_]  
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aabb`aa]`babb`\_baaXYaa[W^`\_a`\_`\_U\_\_\_a  
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+HWI-EAS443:3:4:758:576#0/1  
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+HWI-EAS443:3:4:763:286#0/1  
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+HWI-EAS443:3:4:798:641#0/1  
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+HWI-EAS443:3:4:815:160#0/1  
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+HWI-EAS443:3:4:831:609#0/1  
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a^]`bb^\_\_aaaa`Pa^`a\_aa^b^]`aYa]bY````\_ZX  
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^V¥KS`bb¥bb`^X\_a\_X]`\_]\_¥OTX¥]XYZ[G^RX\_]a\_  
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¥¥\_bbb\_b¥bbbb¥`¥\_\_\_Y`^[\_aba^]^YU^[aU`a  
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CAGGCAGGCAGGATTTATGTGCAACTGATCCCCTCAGAAT  
+HWI-EAS443:3:50:1673:1204#0/1  
aaaa``````b\_Z\_aa\_a¥]a[`aV`\_`\_¥]¥`^`````a  
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+HWI-EAS443:3:50:168:449#0/1  
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+HWI-EAS443:3:50:1708:1189#0/1  
a``aa\_aa`aba`^aaZa]aX\_a\_`\_`a`\_`\_¥Z\_\_\_\_^^  
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+HWI-EAS443:3:50:1708:705#0/1  
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+HWI-EAS443:3:50:229:665#0/1  
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X` `aSaba¥¥`aabbbbU^]ab^a^` `a¥]\_baa`a` [Y]  
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+HWI-EAS443:3:50:310:197#0/1  
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^^¥¥\_ba`ZQ`\_b` `` `aaaa¥]ZT]PY\_baa^[^aQ`^a  
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+HWI-EAS443:3:50:35:408#0/1  
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+HWI-EAS443:3:50:38:705#0/1  
TW\_ZGY]^\_¥Z`a` `U\_\_[\_a`\_\_^`\_Z]¥\_¥]^ORT[W  
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+HWI-EAS443:3:50:423:1518#0/1  
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+HWI-EAS443:3:50:470:1374#0/1  
X\_JT` `aaU`\_\_SabK`aa¥J^RR`a\_aa`JTHN\_]Waa`  
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+HWI-EAS443:3:50:568:693#0/1  
ab\_]`X\_a\_¥aaa`ZY\_b\_aaa¥aa`]aWV¥a`\_^\_T[a\_  
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+HWI-EAS443:3:50:593:1193#0/1  
\_`aaYa`\_b\_]\_]\_a^`aa]\_^[¥UV^\_\_^`\_\_`^OW]\_Y

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^`\_a^`b`bbbabbbbabbaaa^bb`\_abbbaaa\_Xaa  
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+HWI-EAS443:3:50:614:1921#0/1  
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+HWI-EAS443:3:51:1289:683#0/1  
`^a]`[\_VW^\_a\_] ^¥SYa]\_[]^YX^[\_][Z¥]]]U¥  
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+HWI-EAS443:3:51:1468:78#0/1  
I^aaab[b`bbaY`aababa¥Ybabba`abaaab`ba]b  
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+HWI-EAS443:3:51:1470:1233#0/1  
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+HWI-EAS443:3:51:1480:1853#0/1  
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+HWI-EAS443:3:51:1622:1552#0/1  
a\_`a`[] [Z`\_a^`Xb\_[P¥^¥[`¥\_^]TX\_\_`\_]aTZZ  
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Va\_a]a]ab]YZ]\_\_T¥a[b`Z¥\_a`a`a^\_\_WQ]]]\_¥  
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+HWI-EAS443:3:51:472:253#0/1  
a¥`a\_b\_aa\_\_`a\_a\_\_aV`a\_\_`^W]R[\_^Z^`NX]]¥  
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+HWI-EAS443:3:51:504:543#0/1  
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+HWI-EAS443:3:51:516:848#0/1  
a`H`Y][T`US\_YQ`Y]aN`PaSLY`\_P`\_^\_]U)`ZPS





+HWI-EAS443:3:52:1129:1495#0/1  
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+HWI-EAS443:3:52:1337:902#0/1  
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+HWI-EAS443:3:52:1679:1836#0/1  
aabb\_\_bbb`[^aa]``\_a\_aR\_^\_\_a^\_]Z0Ta\_\_`\_]\_  
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+HWI-EAS443:3:52:248:1441#0/1  
aa`aaab`aba\_a\_\_aa^aaa\_\_\_\_\_``\_\_\_\_\_]^\_Z\_^\_  
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+HWI-EAS443:3:52:401:160#0/1  
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@HWI-EAS443:3:52:413:970#0/1  
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+HWI-EAS443:3:52:413:970#0/1  
aa^a]aa^b¥X\_\_``\_\_^`^]\_^]\_^Z`\_\_ZZ`^]\_]\_\_Z  
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GAATGATGCCACATATCAGAGAACAAGAGCGCTTGTTCCGC  
+HWI-EAS443:3:52:488:1226#0/1  
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@HWI-EAS443:3:52:691:698#0/1  
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+HWI-EAS443:3:52:691:698#0/1  
ab`abbbba`bbaaba`b\_ab\_ba`\_aabab`\_a^a]\_  
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+HWI-EAS443:3:52:69:340#0/1  
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GAAATAAATACCTAGAAGAGCATCCCAGTGCTGGGAAGGA  
+HWI-EAS443:3:52:729:765#0/1  
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+HWI-EAS443:3:52:769:616#0/1  
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+HWI-EAS443:3:52:808:1445#0/1  
ab\_`^`ba\_abb^^baaaaaaaaa^aa``^a\_NXV[¥Z`UZVY  
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+HWI-EAS443:3:52:827:803#0/1  
[LX`aaa`a\_V\_a\_]^[W\_W`X]^aa¥`^a]Y]aa¥¥]a`  
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+HWI-EAS443:3:52:829:2017#0/1  
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+HWI-EAS443:3:53:1054:322#0/1  
\_abb`\_[`abZaba]`aab`aa`\_b`^abb^`a]`\_``J  
@HWI-EAS443:3:53:1057:251#0/1  
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+HWI-EAS443:3:53:1057:251#0/1  
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Q\_[R[a`^`[¥aa¥bVzbbb`bb`\_aababaa^bbY`]Uaa  
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+HWI-EAS443:3:53:1219:910#0/1  
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+HWI-EAS443:3:53:1251:681#0/1  
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GAAATAAATACCTAGAAGAGCATCCCAGTGCTGGGAAGGA  
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ab`bbbaaabaabaaaaaa`aa`]\_a^a`a`^^\_\_\_\_  
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+HWI-EAS443:3:53:1363:1307#0/1  
a\_a`^`XZX[G]Z)`XXb\_\_aa\_a`a\_b^]aU¥^¥aaZ]]  
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+HWI-EAS443:3:53:1484:256#0/1  
`¥Ta\_bb\_ab`\_\_J]W]abY\_\_^WabaYWb`Ga^¥^`a^^  
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aa`\_R^MY^ZTX[P¥\_\_NT^VZ[`\_^[] [Y¥Z¥\_\_\_\_VN[R  
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+HWI-EAS443:3:53:1698:1477#0/1  
S¥¥Y\_aab]^a`¥¥Qa``¥L^D[^XY]a^¥]Wa^X`T]LD

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]b\_UM0`\_ab]aaaa`[\_GT¥`ZY^]] [X`bZT]JUFY[\_  
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+HWI-EAS443:3:53:227:210#0/1  
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+HWI-EAS443:3:53:284:1063#0/1  
ZY`\_^a[a]`ab`^ [X]Y` `Z` `b^]¥¥Zaabaab\_\_ba  
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+HWI-EAS443:3:53:285:454#0/1  
a` ``aaY`\_aaa]]`a` [ `Zaaaa`\_a` [ `a` ] ]\_`aaa¥  
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+HWI-EAS443:3:53:445:116#0/1  
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+HWI-EAS443:3:53:527:1824#0/1  
aaaa`\_ab`^` [aaa` [^¥]Vaaa\_a\_aa`U\_] ^` ] ` `V  
@HWI-EAS443:3:53:528:1580#0/1  
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+HWI-EAS443:3:53:528:1580#0/1  
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+HWI-EAS443:3:53:571:148#0/1  
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+HWI-EAS443:3:53:60:1733#0/1  
V¥a\_¥VW¥\_aX^^\_W]`a\_¥\_] ` `^`^¥W^aZ[Z]\_U^P  
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+HWI-EAS443:3:53:651:340#0/1  
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+HWI-EAS443:3:53:668:471#0/1  
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+HWI-EAS443:3:53:688:1403#0/1  
a`abababb`[^aaaXba\_\_`aaaaa`a\_PZ\_\_\_a`\_X`  
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+HWI-EAS443:3:53:710:1885#0/1  
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+HWI-EAS443:3:53:753:403#0/1  
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+HWI-EAS443:3:53:758:1305#0/1  
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a]]\_`\_]````aZ¥\_`^\_W]^X^^^V^ZXZ]Z^^]XZNU]  
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+HWI-EAS443:3:54:109:571#0/1  
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W\_bbbb`bbabbbbb`bbbbbbababbbbbabbabaaba  
@HWI-EAS443:3:54:1180:1326#0/1  
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+HWI-EAS443:3:54:1218:1922#0/1  
ab\_aaaa`aa`a`aaa\_aV`\_a]a`a`aa`\_a[F[S¥  
@HWI-EAS443:3:54:127:1397#0/1  
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+HWI-EAS443:3:54:127:1397#0/1  
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+HWI-EAS443:3:54:1320:35#0/1  
]Qa]`^`¥RY\_YRa\_ba¥V¥b\_[]Y`¥Y\_b`a]\_aabab  
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+HWI-EAS443:3:54:148:2018#0/1  
\_`Z\_X`a¥^`)]`\_aaaa`Z[Y\_\_a`\_Z\_a^`\_`^`\_\_\_\_  
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aI[XP\_aW0[^Y[]`VX`[VRYQLMLJ]\_HYDP\_ZN[TUFP  
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¥Y`\_b\_\_ababbbba`aW[abb]]^[ab`baaZW`bbbaba  
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+HWI-EAS443:3:54:636:1026#0/1  
a\_aU[¥aaaa¥\_a\_TYX\_\_`[\_`^^^¥a\_\_\_Y\_]¥X^  
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¥Y¥`aaZ^Uab\_¥¥[`]P^^ab^ab¥Wa^][¥^^a\_]\_TR  
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@HWI-EAS443:3:55:261:1317#0/1  
CTCCCCGATTCCACCAATCATTCTTCCGACAGATGCTCTGA  
+HWI-EAS443:3:55:261:1317#0/1  
abaaaaaaaa`a`a\_aa```a`\_¥^\_\_\_\_¥\_\_X`\_`\_¥  
@HWI-EAS443:3:55:28:545#0/1  
GACTTTGAAAGGGAAGGGTACTCACTGGTCGGGATAGACC  
+HWI-EAS443:3:55:28:545#0/1  
aaa\_aaaa^^a\_\_\_\_`a`\_]\_aa¥^aa^^[\_\_\_\_`\_`\_V  
@HWI-EAS443:3:55:361:443#0/1  
GCTTTCTGCTTTTGATGAGAGAAGAAATAAATACCTAGAA  
+HWI-EAS443:3:55:361:443#0/1  
Y`\_]^[^]S^^`b^[\_aaa\_b]YTY¥¥a`¥ZaaSR\_VPZY  
@HWI-EAS443:3:55:402:336#0/1  
GTCCTCTGTTTTCTTAGGGTCTTCCCAGCACTGGGATG  
+HWI-EAS443:3:55:402:336#0/1  
aaaaaa`ab``a\_aa\_aa\_V`a\_\_`^\_\_^`^`\_¥[\_\_\_\_  
@HWI-EAS443:3:55:437:801#0/1  
CAATATCCTCAAAGGAAAATTTCAAACAGCTGCCAGAGG  
+HWI-EAS443:3:55:437:801#0/1  
```b`a^``a\_aa`a^SZaaaa\_`aZ`]`b`Z\_\_a\_a`

@HWI-EAS443:3:55:497:1124#0/1
GTGCACATTTGGATGTAGAATCTCCCGATTCCACCAATCA
+HWI-EAS443:3:55:497:1124#0/1
]PSab`b``W¥WV]]`a^`Z¥WW¥[R_Z_`ZYT`]Y¥L
@HWI-EAS443:3:55:546:137#0/1
GGCGCCAAGCAAACAATGGCGAAGATGCAACAGCAGGTCT
+HWI-EAS443:3:55:546:137#0/1
abab_a[_a]`aaa`aaa_a```__a_[a[_]UU`]GV^
@HWI-EAS443:3:55:576:707#0/1
CTGGGATCCATTCCGGTGCGAACAAGCGCTCTTGTCTCT
+HWI-EAS443:3:55:576:707#0/1
ab`baabaaZbbaa`^bb`aaa`a^`a`aa`a__aa`a
@HWI-EAS443:3:55:588:1962#0/1
GGTGCTTTCTGCTTTTGATGAGAGAAGAAATAAATACCTA
+HWI-EAS443:3:55:588:1962#0/1
__V_`Tba``aabbaba¥`baa```aaa`a`aaaa`Waa
@HWI-EAS443:3:55:620:1121#0/1
CACTTGGCTGTTTTGGAGTAATTTGAATGGGTCTATCCCG
+HWI-EAS443:3:55:620:1121#0/1
a_Z]__bb_M[aaaUL[FW]]_YTY`UTZaNZ]QVXX¥B
@HWI-EAS443:3:55:655:891#0/1
TCCAACCTCTTTCACCGCAGCACCTGCGGCACCAGACCTT
+HWI-EAS443:3:55:655:891#0/1
aaaaaaaa`a_`aa_a`a`_`^`¥_a^^`_^^¥^¥¥¥
@HWI-EAS443:3:55:681:948#0/1
GAACAAGCGCTCTTGTCTCTGATATGTGGCATCATTAG
+HWI-EAS443:3:55:681:948#0/1
_a`abaa`Z_a¥`]]Y`_]_a]`[``^^`X]a[^a_^Z`a
@HWI-EAS443:3:55:692:1556#0/1
GAAGAAATAAATACCTAGAAGAGCATCCCAGTGCTGGGAA
+HWI-EAS443:3:55:692:1556#0/1
abbbbaabbabbbbaabbaaaaaaaba^^aaa¥a_aaa_aa
@HWI-EAS443:3:55:75:377#0/1
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+HWI-EAS443:3:55:75:377#0/1
abaaabaa`aa¥aaaa`aa`a`_`a¥^^`W`a_`XaZ[_
@HWI-EAS443:3:55:778:1895#0/1
CCCTTGTCTTCGTCCATTTTCCCCCTCCAGAAATTTTCG
+HWI-EAS443:3:55:778:1895#0/1
aa_abaaa¥baaa_]_abaa`_ba`^a`[]a]a`aa_^_`
@HWI-EAS443:3:55:831:399#0/1
CATTCCGGTGCGAACAAGCGCTCTTGTCTCTGATATGTG
+HWI-EAS443:3:55:831:399#0/1
ab_bbb_Z_b[bbb_b`b`¥`a_`U`aab```[a`aa_a
@HWI-EAS443:3:55:862:1085#0/1
GTAATTTGAATGGGTCTATCCCGACCAGTGAGTACCCTTC
+HWI-EAS443:3:55:862:1085#0/1
a`W``ab_aaa[]P_¥¥]a¥^`V[^`Xa_Z_]YLY_a¥
@HWI-EAS443:3:55:880:172#0/1
GCTGTTTTGGAGTAATTTGAATGGGTCTATCCCGACCAGT

+HWI-EAS443:3:55:880:172#0/1
aaaa[aaaaa_a^^^`_a`_`Z``_Y^)``]]^_^UUV^W
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+HWI-EAS443:3:55:918:242#0/1
aaa_baabaaaa`^a_aa`^W[a_aV_`^`____a`^`__a
@HWI-EAS443:3:56:1121:1491#0/1
TCCAGAATAGCATAACAATAGAGAGGATGGTGCTTTCTGC
+HWI-EAS443:3:56:1121:1491#0/1
a¥aab_ab¥^a_^X_^)]`a`^`ZPKW[UUTBBBBBBBBB
@HWI-EAS443:3:56:1299:1945#0/1
ACTCCAAAACAGCCAAGTGGTCAGCCTGATGAGACCAAAT
+HWI-EAS443:3:56:1299:1945#0/1
a¥a`_`bbaa`_`]YP)`_V^Z[^_`UV_a`_]J_ZV`[^_`
@HWI-EAS443:3:56:136:1023#0/1
AAGAATGATTGGTGAATCGGGAGATTCTACATCCAAATG
+HWI-EAS443:3:56:136:1023#0/1
a`_`aaa`_`SRU_S^`_`_S]W^XW^]X_^YX^^[XK
@HWI-EAS443:3:56:1377:205#0/1
TGTCGGAAGAATGATTGGTGAATCGGGAGATTCTACATC
+HWI-EAS443:3:56:1377:205#0/1
ab`_`aa`^`babbaaaaZZ]_`_`_a`^`[P^¥]`¥`_[0]^Z
@HWI-EAS443:3:56:137:852#0/1
GAAAGAATGTGCAATATCCTCAAAGGAAAATTTCAAACAG
+HWI-EAS443:3:56:137:852#0/1
`YVY_Y[Y`]aa^M^`X[MYWUJV][VYST_VWWYP[¥¥¥
@HWI-EAS443:3:56:1570:1104#0/1
GTGCAATATCCTCAAAGGAAAATTTCAAACAGCTGCCAG
+HWI-EAS443:3:56:1570:1104#0/1
a¥]`_`_`^a`_a`^W`_`^a`_`a`_`]^`_`_a`_aX]^U]
@HWI-EAS443:3:56:172:1120#0/1
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+HWI-EAS443:3:56:172:1120#0/1
`_`aa`_`[b`ababa`babaabaa`aaV[a_`aaa`_`aaa
@HWI-EAS443:3:56:262:373#0/1
GAAGGACCCTAAGAAAACAGGAGGCCATATATAGAAGA
+HWI-EAS443:3:56:262:373#0/1
`bbZX^aaa`_`aaaa`_`aaa`_`^`[a`_`_`aaaaa`_`a¥_`a[
@HWI-EAS443:3:56:353:1223#0/1
TGGGCTTGCAGTAGCAAGTGGGCATGACTTTGAAAGGGAA
+HWI-EAS443:3:56:353:1223#0/1
aYJZ`W]^]XXV¥`ZXV[[`_Va^Y]aWZ]]`_`TLZ^YYXY
@HWI-EAS443:3:56:364:228#0/1
TGGGCTTGCAGTAGCAAGTGGGCATGACTTTGAAAGGGAA
+HWI-EAS443:3:56:364:228#0/1
aba`]a`ba_a¥¥`¥`¥aZ_a_Z`_`_`[^`_`_`WX¥`_`_`¥¥
@HWI-EAS443:3:56:420:1182#0/1
TCTGGATTAGTCGTCATCATAATCACTGAGTTTGAGTTC
+HWI-EAS443:3:56:420:1182#0/1
aa`a`_`aaa]L[a_aaYTV[_]]¥_W`_`_`Y`¥W`_`W]Z`_`_`

@HWI-EAS443:3:56:428:875#0/1
GTGCTTTCTGCTTTTGATGAGAGAAGAAATAAATACCTAG
+HWI-EAS443:3:56:428:875#0/1
`U^`aaaa`]_aaaa`W[`Z`X¥YT_[W____]W¥^^Z^`^
@HWI-EAS443:3:56:515:1580#0/1
GATTGGTGAATCGGGAGATTCTACATCCAAATGTGCACT
+HWI-EAS443:3:56:515:1580#0/1
aaa`aaZaaaa`a```[a`a_Y_```TQ]`a`__]_]^]Y
@HWI-EAS443:3:56:581:185#0/1
ATCCATTCCGGTGCGAACAAGCGCTCTTGTCTCTGATAT
+HWI-EAS443:3:56:581:185#0/1
aaaaabb`abb¥a^a^Y¥aa`Y][_Z_____`Y^V^_U_^`
@HWI-EAS443:3:56:700:1271#0/1
GGGTCCTCCTGTTTTCTTAGGGTCCTTCCCAGCACTGGGA
+HWI-EAS443:3:56:700:1271#0/1
`aa[bbb`_bb¥baababaa]SVTaaa`_¥]a]a``aY¥_
@HWI-EAS443:3:56:736:701#0/1
GGTGCGAACAAGCGCTCTTGTCTCTGATATGTGGCATCA
+HWI-EAS443:3:56:736:701#0/1
aaa`abab`bbb]aaaaaaaaaaaa`aa`aaa__aa_aa``
@HWI-EAS443:3:56:74:991#0/1
CTCATTCTGAGGGATCAGTTGCACATAAATCCTGCCTGC
+HWI-EAS443:3:56:74:991#0/1
^a_aaaa`G`aR____`_NX`¥[¥`_Y`¥_a_W]_¥^]¥
@HWI-EAS443:3:56:794:440#0/1
CCTGGGTTTCGACTTTCTTACTTGATCCATCATTGCCC
+HWI-EAS443:3:56:794:440#0/1
a[bbba_ababbabb`aabbaabbbab`abbaaaaa`__
@HWI-EAS443:3:56:807:24#0/1
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+HWI-EAS443:3:56:807:24#0/1
a^[RX`]_¥__Z[ZUSS_aV[LWVTYLJUYZQTQSPUSUV
@HWI-EAS443:3:56:827:631#0/1
GGTCCTCCTGTTTTCTTAGGGTCCTTCCCAGCACTGGGAT
+HWI-EAS443:3:56:827:631#0/1
aa_a_baabbabba`aba``_aaaa``aaa`a_aaa_^`
@HWI-EAS443:3:56:829:1370#0/1
GGGGTAAAATGGACGAAGGACAAGGGTTGCTTATGAAAG
+HWI-EAS443:3:56:829:1370#0/1
a```Uaaaa`aa``_^^aa`_^__`_a_]`]____``_^^_
@HWI-EAS443:3:56:838:836#0/1
AATAGAGAGGATGGTGCTTTCTGCTTTTGATGAGAGAAGA
+HWI-EAS443:3:56:838:836#0/1
aa`aa```ba^^^`^`abbaa^YV]baaYZa^]baaaa__
@HWI-EAS443:3:56:852:567#0/1
CATCATAATCACTGAGTTTGAGTTCAGTGCACATTTGGAT
+HWI-EAS443:3:56:852:567#0/1
abbbabb`bbabb`b¥bbbbbaabab_bababaaabaaa
@HWI-EAS443:3:56:90:975#0/1
TTCTGCTTTTGATGAGAGAAGAAATAAATACCTAGAAGAG

+HWI-EAS443:3:56:90:975#0/1
¥^_]_a_a_a_H]`^a^a][^^¥X_]a`^]]aZ^^Y¥^`
@HWI-EAS443:3:56:930:1387#0/1
GGAAGAATGATTGGTGGAAATCGGGAGATTCTACATCCAAA
+HWI-EAS443:3:56:930:1387#0/1
`_SO_¥V`¥Z`a^YEZ¥_TQ[_VRPV¥X[_[``UYZ^_TQ
@HWI-EAS443:3:56:934:894#0/1
TGGAGGGGTGAAAATGGACGAAGGACAAGGGTTGCTTATG
+HWI-EAS443:3:56:934:894#0/1
aba`abba^b`aa`aaaaa` `a^^` `a`^W_a`_a_aa
@HWI-EAS443:3:56:996:581#0/1
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+HWI-EAS443:3:56:996:581#0/1
`babaaa_baaaaaa` `b`__[_`__^a` `X`b^aa`_`_^
@HWI-EAS443:3:57:1008:527#0/1
ATGACTTTGAAAGGAAGGGTACTCACTGGTCGGGATAGA
+HWI-EAS443:3:57:1008:527#0/1
UQZ_Z¥QR`baU_U_a¥¥QF_W[W_GRaZOP`¥^]U_¥^
@HWI-EAS443:3:57:1059:1626#0/1
GTCCTCCTGTTTTCTTAGGGTCCTTCCCAGCACTGGGATG
+HWI-EAS443:3:57:1059:1626#0/1
aZ[V`a^aa`_`_a`a`_TTPPYX¥`PS]`^_Z`^^[W_`^
@HWI-EAS443:3:57:1192:1067#0/1
CACTTGGCTGTTTTGGAGTAATTTGAATGGGTCTATCCCG
+HWI-EAS443:3:57:1192:1067#0/1
ababbbbaba]bb` [WI_T`abbbY¥b]abbSaaa]N[`a
@HWI-EAS443:3:57:1208:122#0/1
TAACAATAGAGAGGATGGTCTTTCTGCTTTTGATGAGAG
+HWI-EAS443:3:57:1208:122#0/1
`^¥Y`Sa0aIWS` `H[NXTIS^`^VWSWY¥^^`S^^YUP^
@HWI-EAS443:3:57:1289:1681#0/1
TGGGCTTGCAGTAGCAAGTGGGCATGACTTTGAAAGGGAA
+HWI-EAS443:3:57:1289:1681#0/1
abaaabab`abVaa`_aa¥a^a¥`aaaUaaba]¥` [_`____
@HWI-EAS443:3:57:1348:1090#0/1
GGTCTTTCTGCTTTTGATGAGAGAAGAAATAAATACCTA
+HWI-EAS443:3:57:1348:1090#0/1
a_I`^`_aaY^aS[`ba[]`Paa^UZ`_` `a_a]` `X¥a`
@HWI-EAS443:3:57:1386:1050#0/1
CTGAACTCAAACCTCAGTGATTATGATGGACGACTAATCCA
+HWI-EAS443:3:57:1386:1050#0/1
`abababaaaaab_a`Zb`aa]a^a_aa`_`_a`_a^`¥U`
@HWI-EAS443:3:57:1389:1313#0/1
AAATGGACGAAGGACAAGGGTTGCTTATGAAAGAATGTGC
+HWI-EAS443:3:57:1389:1313#0/1
a¥Q_bbaaba`]a`aaYa[` `a][`b_b[`aaa`WaaV`]
@HWI-EAS443:3:57:1425:1038#0/1
GGGGAGCGCCAGGATGCCACAGAAATCAGAGCATCTGTCCG
+HWI-EAS443:3:57:1425:1038#0/1
ab] ` [^T¥aaZX]OM]TXPT]_¥aVID[W¥[[XSN¥BBBB

@HWI-EAS443:3:57:1449:1226#0/1
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+HWI-EAS443:3:57:1449:1226#0/1
aba^_ab_bbb`bbbababaa]Z`abaa`abaa`_aX]bZ
@HWI-EAS443:3:57:150:211#0/1
CGCCAAGCAAACAATGGCGAAGATGCAACAGCAGGTCTTA
+HWI-EAS443:3:57:150:211#0/1
ab`abbbabbba`b]bbbb_aba]aaa`aaaaa`¥IR` `a
@HWI-EAS443:3:57:153:1771#0/1
ATCCATTCCGGTGCGAACAAGCGCTCTTGTCTCTGATAT
+HWI-EAS443:3:57:153:1771#0/1
`a__Z`KbaRTMza__`^_a`¥NUYV^WZ]]_]VP¥¥]B
@HWI-EAS443:3:57:155:290#0/1
GTAATTTGAATGGGTCTATCCCGACCAGTGAGTACCCTTC
+HWI-EAS443:3:57:155:290#0/1
a^aaaaaaaa__aaaV`aa` `` `` `` ` _ `a]` `]_Y^[[U^_[
@HWI-EAS443:3:57:159:1889#0/1
ATCTCCCGATTCCACCAATCATTCTTCCGACAGATGCTCT
+HWI-EAS443:3:57:159:1889#0/1
a_^a^abb` `]^` `a`^¥R¥`][^]__^[U]^`^`X_Z^
@HWI-EAS443:3:57:1632:285#0/1
ATGGACGACTAATCCAGAATAGCATAACAATAGAGAGGAT
+HWI-EAS443:3:57:1632:285#0/1
P]b^`_¥_X[ZbZUMa^aab`b_Za`bJb]` `]`Z^]_V_`
@HWI-EAS443:3:57:164:46#0/1
CGTGCCAGGAAAATGAGGTCTTCAATCTCAGCGTTTCCTG
+HWI-EAS443:3:57:164:46#0/1
ab`b]`_abaaaa^¥baZYaa` `^a`_`__a_a` `^`^aa
@HWI-EAS443:3:57:1723:1953#0/1
CAGCTGCCAGAGGGCAATGATGGATCAAGTAAGAGAAAG
+HWI-EAS443:3:57:1723:1953#0/1
a_]_ab]^aab_Sa¥W_aaa¥a`a[^]` `` `[[[ZN]_BB
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+HWI-EAS443:3:57:1751:1667#0/1
]¥`a_b_aa` `a`]baaaaJPaa^^OS^`_WZ¥^X]UBBB
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+HWI-EAS443:3:57:182:1215#0/1
¥¥_b¥¥ZUOQUWH¥¥a^`Z`aWZWNQOQT]WUEOP^NSB
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CAAGCGCTCTTGTCTCTGATATGTGGCATCATTGAGTT
+HWI-EAS443:3:57:225:475#0/1
ab_`aaba[^a]a_aaab` `__]V_a¥`_V`_a` `` ` _Va
@HWI-EAS443:3:57:226:1622#0/1
TCCTGTTTTCTTAGGGTCCTTCCCAGCACTGGGATGCTCT
+HWI-EAS443:3:57:226:1622#0/1
W_Ya`Ubb`__¥`¥^OWbaa`aaP`^TQ`]aa[S[XX[aB
@HWI-EAS443:3:57:270:911#0/1
AAAGCACCATCCTCTCTATTGTTATGCTATTCTGGATTAG

+HWI-EAS443:3:57:270:911#0/1
aa^bab`a^¥aaR`_aaa`^Va`aa_a_a`_YY]S¥^^Y
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+HWI-EAS443:3:57:337:1444#0/1
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@HWI-EAS443:3:57:368:685#0/1
CTGAACTCAAACCTCAGTGATTATGATGGACGACTAATCCA
+HWI-EAS443:3:57:368:685#0/1
aabbabb^aaaaaaaa`b_aaaaaaaa_aaa`_a`__a
@HWI-EAS443:3:57:382:497#0/1
GATTGGTGAATCGGGAGATTCTACATCCAAATGTGCACT
+HWI-EAS443:3:57:382:497#0/1
aa]`a`_a_T_]`X__Z[a]Z^WY¥^POW_¥UO_UWQ[
@HWI-EAS443:3:57:416:1893#0/1
CAGGAAACGCTGAGATTGAAGACCTCATTTTCCTGGCAGC
+HWI-EAS443:3:57:416:1893#0/1
aa`a_ba_b_¥a[a`Saa_]V¥G`Saaa`a`R¥[X¥KZ_`
@HWI-EAS443:3:57:46:861#0/1
ATGGTGCTTTCTGCTTTTGATGAGAGAAGAAATAAATACC
+HWI-EAS443:3:57:46:861#0/1
a`a`Wa_R`aaaa``aaaa^a`_`a`^_¥X`_]U]^__[
@HWI-EAS443:3:57:491:21#0/1
GAATGATTGGTGAATCGGGAGATTCTACATCCAAATGTG
+HWI-EAS443:3:57:491:21#0/1
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@HWI-EAS443:3:57:540:420#0/1
GGTGCTTTCTGCTTTTGATGAGAGAAGAAATAAATACCTA
+HWI-EAS443:3:57:540:420#0/1
aaSR`a¥a]][]aaaa__XXa]aXY]_`_`_a[_`^M^a
@HWI-EAS443:3:57:600:1441#0/1
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+HWI-EAS443:3:57:600:1441#0/1
abbab`abaa`aabab^baaaaa`aaa]aa``a`a
@HWI-EAS443:3:57:709:940#0/1
TGGGTCCTCCTGTTTTCTTAGGGTCCTCCCAGCACTGGG
+HWI-EAS443:3:57:709:940#0/1
aaba[aaa]aaa]a`a¥aa^`]V_`_`_R`__[``a[
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+HWI-EAS443:3:57:716:1285#0/1
aaaaabbaabaaa`a`Wa_a]_`a`^_aaa]a__a_a`
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GACCCATTCAAATTACTCCAAAACAGCCAAGTGGTCAGCC
+HWI-EAS443:3:57:730:1758#0/1
a^[]^bbbababaaaaa[a`_`_aa_a`aa^`[``a[_`
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GACGACTAATCCAGAATAGCATAACAATAGAGAGGATGGT
+HWI-EAS443:3:57:760:1804#0/1
`baaaaabab_abbabbb^[]aaa[a_aaaaaa`a`_`Y

@HWI-EAS443:3:57:769:172#0/1
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+HWI-EAS443:3:57:769:172#0/1
aba`aab_aaaa`aaaa`^^`__a]_`aV_¥a¥`U`
@HWI-EAS443:3:57:885:1318#0/1
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+HWI-EAS443:3:57:885:1318#0/1
a`a[aaaa`]aab_a_a`aaa`a_a]_``P`ZU___`U]
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+HWI-EAS443:3:57:906:1816#0/1
^aWI[_`_¥_¥`X[]Q_b`bbaa¥TWVZY_Waab¥`Y]¥^W
@HWI-EAS443:3:57:93:884#0/1
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+HWI-EAS443:3:57:93:884#0/1
]aV`a^a_b[Y[`aa`K_a¥Z¥aa^_aa_aab¥Sa__a_^
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+HWI-EAS443:3:58:1177:1198#0/1
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@HWI-EAS443:3:58:1218:893#0/1
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+HWI-EAS443:3:58:1218:893#0/1
`X`a`^_a_Ra_[__a]^¥`a___a`^U_[__UN¥^_`^¥
@HWI-EAS443:3:58:1273:1287#0/1
CCTCTCTATTGTTATGCTATTCTGGATTAGTCGCCATCA
+HWI-EAS443:3:58:1273:1287#0/1
aa¥[bbZ`_]_^]a_]Z[_aZ___`^Z`a`YXZ`S]]U_
@HWI-EAS443:3:58:1290:19#0/1
GGGGAGCGCCAGGATGCCACAGAAATCAGAGCATCTGTCCG
+HWI-EAS443:3:58:1290:19#0/1
Z_ba^bba^^abbaaaaa`_`ba`aaP`[[a`^^]a_PM`
@HWI-EAS443:3:58:1434:492#0/1
GTAATTTGAATGGGTCTATCCCGACCAGTGAGTACCCTTC
+HWI-EAS443:3:58:1434:492#0/1
aaa_babbbbaa`baZZaaa[__aa^[_a_b_¥U¥^RR`_]`
@HWI-EAS443:3:58:1536:1489#0/1
GGCTGTTTTGGAGTAATTTGAATGGGTCTATCCCGACCAG
+HWI-EAS443:3:58:1536:1489#0/1
aaaa`¥]baQ¥U`U^`aaa¥Ta]_a`VY`_VZZTLX]YR]
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ATTTCAAACAGCTGCCAGAGGGCAATGATGGATCAAGTA
+HWI-EAS443:3:58:1599:1002#0/1
aaba^baa^`a_¥`^`WXUa_XVY_aa_aa]U[_]`[_W¥
@HWI-EAS443:3:58:1676:1622#0/1
AAGGTCTGGTGCCGAGGTGCTGCGGTGAAAGGAGTTGGA
+HWI-EAS443:3:58:1676:1622#0/1
^[[WN_babaa]abaZU¥^^[__V__OU^Y]a_QP^]HN]
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+HWI-EAS443:3:58:262:926#0/1
ab]]`aaXYJ[SOXSS[_a[]_[VRGS]¥RXXT[¥X_NPR
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+HWI-EAS443:3:58:290:636#0/1
abbaaababbbbabbbbaab`bab`^aaaaa`]aa_``
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AATTACTCCAAAACAGCCAAGTGGTCAGCCTGATGAGACC
+HWI-EAS443:3:58:307:78#0/1
a`ba`ababaaa_aaa`aaaa^aa^`a_`_^[]`^a^^_
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GGATGGTGCTTTCTGCTTTTGATGAGAGAAGAAATAAATA
+HWI-EAS443:3:58:327:671#0/1
aa`¥`a[]aaaa`^`aaaa`aZZa_`]`[`a``a¥`_`_
@HWI-EAS443:3:58:364:449#0/1
GTCGGAAGAATGATTGGTGAATCGGGAGATTCTACATCC
+HWI-EAS443:3:58:364:449#0/1
aaabbaaaaaaaaaaaaa]aa__`_aa__`_`_Y¥_____SZ
@HWI-EAS443:3:58:39:1667#0/1
GCACATTCTTTCATAAGCAACCCTTGTCCCTTCGCCATTT
+HWI-EAS443:3:58:39:1667#0/1
Y``U_bb[bbbabab¥¥^T[a^`)]`bIb]Y[Uaaaa_[
@HWI-EAS443:3:58:430:832#0/1
TGGTGCTTTCTGCTTTTGATGAGAGAAGAAATAAATACCT
+HWI-EAS443:3:58:430:832#0/1
aaa[a_aaaaaa_abba``aaaa_``¥`_`a`aa__aa_T`
@HWI-EAS443:3:58:437:13#0/1
CATTGCCCTCTGGGCAGCTGTTTCAAATTTTCCTTTGAGG
+HWI-EAS443:3:58:437:13#0/1
`¥S¥`a`^b``Z`¥]YYYZ`VW_aV[UZ]^¥S[^`Xa`a¥
@HWI-EAS443:3:58:494:1074#0/1
ATGCAACAGCAGGTCTTACTCATATCATGATTTGGCATT
+HWI-EAS443:3:58:494:1074#0/1
`abaab_ab`aa`X_]`a`^^a`_`]aa__`a^Y^`¥__
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TGGGTCCTCCTGTTTTCTTAGGGTCCTTCCCAGCACTGGG
+HWI-EAS443:3:58:49:1374#0/1
a_aa_baaaaabaaaaaaaaaY¥^_aa`aa_a_`_^`_`_
@HWI-EAS443:3:58:49:836#0/1
ATGCAACAGCAGGTCTTACTCATATCATGATTTGGCATT
+HWI-EAS443:3:58:49:836#0/1
a_WU^b__[^`]a¥YZ__aaaSYaa^Ya^)[__UZ_Z__Z
@HWI-EAS443:3:58:508:802#0/1
CTAATCCAGAATAGCATAACAATAGAGAGGATGGTGCTTT
+HWI-EAS443:3:58:508:802#0/1
ab_]`^`bbaaaaa`_aa`_a`^aaa`a`aaa^aSG]T¥^_
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CTCATTCTGAGGGATCAGTTGCACATAAATCCTGCCTGC
+HWI-EAS443:3:58:52:1292#0/1
abaa``aabab_^^^[_aa[a¥a`a`aaaa`Z^aa¥_¥]

@HWI-EAS443:3:58:52:451#0/1
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+HWI-EAS443:3:58:52:451#0/1
aa_aaa_a`b^aa`a`_aa]Va__`aZZ^_Y^__^_YY
@HWI-EAS443:3:58:560:1286#0/1
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+HWI-EAS443:3:58:560:1286#0/1
aaa`b`_a`T^a`_¥R]LY_``_TW_ST[^P^`¥ZZ^]Y¥
@HWI-EAS443:3:58:590:106#0/1
TGGGCATGACTTTGAAAGGGAAGGGTACTCACTGGTCGGG
+HWI-EAS443:3:58:590:106#0/1
a`[]NV¥^PGT¥TXW_`a`UQ^_T_VUV__RUVXX]_^U_
@HWI-EAS443:3:58:607:1375#0/1
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+HWI-EAS443:3:58:607:1375#0/1
a_]aaaaaaaaabbaaa^aaaa__^aa`aaaaaaaaaaaa
@HWI-EAS443:3:58:608:152#0/1
GGTCCTCCTGTTTTCTTAGGGTCCTTCCCAGCACTGGGAT
+HWI-EAS443:3:58:608:152#0/1
aa`aab¥¥aYb]``aa¥b`a¥``_a_____`_^]`dW^][
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CAGGTGCTGCGGTGAAAGGAGTTGGAACAATAGCAATGGA
+HWI-EAS443:3:58:647:746#0/1
aabbZaaaa`a_W]^]_a[`W`[X_]`U¥^a]_^^^_
@HWI-EAS443:3:58:707:34#0/1
GCTGTTTTGGAGTAATTTGAATGGGTCTATCCCGACCAGT
+HWI-EAS443:3:58:707:34#0/1
a_ab_bbab_]^[^]_abaa_```aV]^]__^^`X^]_W
@HWI-EAS443:3:58:805:696#0/1
ATGACTTTGAAAGGGAAGGGTACTCACTGGTCGGGATAGA
+HWI-EAS443:3:58:805:696#0/1
aaba`aabaa``a``_`aaaZ`__```_^`_Y_a^`_]____
@HWI-EAS443:3:58:875:307#0/1
CCTGGGTTTCGACTTTCTTACTTGATCCATCATTGCCC
+HWI-EAS443:3:58:875:307#0/1
aaaaZ`Vaaaa_aa_a_a_aa`^a`aZ[^^^a__```_]]
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GGTCTTCAATCTCAGCGTTTCCTGGGTTTCGACTTTCTCT
+HWI-EAS443:3:58:880:298#0/1
aaVaaW`WT_WP]U_]a[THZ¥^`_[LX^__U[^[¥VV_¥
@HWI-EAS443:3:58:894:2036#0/1
ATTGCCCTCTGGGCAGCTGTTTGAATTTTCCTTTGAGGA
+HWI-EAS443:3:58:894:2036#0/1
aa`]aabaaRZP[_a¥¥``^a_¥R``aa^a[Ya`_a_S`^
@HWI-EAS443:3:58:8:1237#0/1
GCATCATTGAGTTGGAATGCCAAATCATGATATGAGTAA
+HWI-EAS443:3:58:8:1237#0/1
a`b``V`aa_V¥X`WN¥_^ZYY_]P]Y¥U][`_Z__a^VS
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+HWI-EAS443:3:58:920:344#0/1
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+HWI-EAS443:3:58:936:424#0/1
aa``babb`babbbbaaaaaYaa`aRbaaaaaa]aaaa
@HWI-EAS443:3:58:955:313#0/1
GACTAATCCAGAATAGCATAACAATAGAGAGGATGGTGCT
+HWI-EAS443:3:58:955:313#0/1
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@HWI-EAS443:3:58:974:1728#0/1
ATCCCAGTGCTGGGAAGGACCCTAAGAAAACAGGAGGACC
+HWI-EAS443:3:58:974:1728#0/1
YTY`aaa`aa¥]ZR¥UXY^UZVa_[_U_¥`VK¥`Y__[RR
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+HWI-EAS443:3:59:1000:30#0/1
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@HWI-EAS443:3:59:1003:69#0/1
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+HWI-EAS443:3:59:1003:69#0/1
ab^Y`ba_``ab``baa^]aaaVa`_____]^VYSaXX
@HWI-EAS443:3:59:1015:1623#0/1
AGAGGATGGTGCTTTCTGCTTTTGATGAGAGAAGAAATAA
+HWI-EAS443:3:59:1015:1623#0/1
V_G_bb`bbP¥VJ]a_ZWW_ba`bR^^^¥V^PW`ZXW__
@HWI-EAS443:3:59:1133:218#0/1
GACAAGGGTTGCTTATGAAAGAATGTGCAATATCCTCAA
+HWI-EAS443:3:59:1133:218#0/1
a[``^b`¥UX_U_]Y]_^X]Y[W]R_____T¥VVTQZ]S
@HWI-EAS443:3:59:1211:1425#0/1
AATAGAGAGGATGGTGCTTTCTGCTTTTGATGAGAGAAGA
+HWI-EAS443:3:59:1211:1425#0/1
abbbbabbbababa¥baabb`a`abbbb]aa_ZaNY]__]
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GGTCCTCCTGTTTTCTTAGGGTCCTCCCAGCACTGGGAT
+HWI-EAS443:3:59:1214:787#0/1
a¥Z¥XaV]]b`aaaa_a`a_Jaa``aaaY`V]__UWaYV
@HWI-EAS443:3:59:1216:856#0/1
GTGAGCTGGGTTTTCATTTGGTCTCATCAGGCTGACCACT
+HWI-EAS443:3:59:1216:856#0/1
HV[a_VXba^W^Y`ab_`YYaa[[abab_`¥^abaTNPP_
@HWI-EAS443:3:59:1248:1856#0/1
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+HWI-EAS443:3:59:1248:1856#0/1
`]K_aa_a_a^_a_¥[`^aa_a_a_a_b`GXVXYNNRG
@HWI-EAS443:3:59:1276:1661#0/1
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+HWI-EAS443:3:59:1276:1661#0/1
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@HWI-EAS443:3:59:1383:886#0/1
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+HWI-EAS443:3:59:1383:886#0/1
aaba`_aaa_ab_a_Y_``aaa`aaaaba]_`aaaYWaZ_
@HWI-EAS443:3:59:1535:1322#0/1
CTCTTACTTGATCCATCATTGCCCTCTGGGCAGCTGTTTG
+HWI-EAS443:3:59:1535:1322#0/1
aab`bbbbbb`abb`[^abaaU`bba`bbXa`a]T]_P
@HWI-EAS443:3:59:153:2037#0/1
CGACTTTCTTACTTGATCCATCATTGCCCTCTGGGCAG
+HWI-EAS443:3:59:153:2037#0/1
abaaaaaaaaaaaaaaaaaaaaaaaaaaa`aa`X_^]UV]^W
@HWI-EAS443:3:59:1595:1807#0/1
TGGACGACTAATCCAGAATAGCATAACAATAGAGAGGATG
+HWI-EAS443:3:59:1595:1807#0/1
V_[Ubbaba_V[b`bb0_bababab_bbb`a_aa_aaa^b
@HWI-EAS443:3:59:1598:745#0/1
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+HWI-EAS443:3:59:1598:745#0/1
abab_a_babb^ab^P`S¥a_ZZa]^baa[[]¥^aPW`__
@HWI-EAS443:3:59:1623:1130#0/1
CTTCCGACAGATGCTCTGATTTCTGTGGCATCCTGGCGCT
+HWI-EAS443:3:59:1623:1130#0/1
abbbbaaabbaababaa`abbbbababaabbW`abYUa[R
@HWI-EAS443:3:59:1663:647#0/1
GAAATAAGGAGAGTTTGGCGCCAAGCAAACAATGGCGAAG
+HWI-EAS443:3:59:1663:647#0/1
``aabaabbabaa`aabb`[_]_ab_^aaaa[``PR^YS
@HWI-EAS443:3:59:1690:1001#0/1
GTCCGAAGAATGATTGGTGAATCGGGAGATTCTACATCC
+HWI-EAS443:3:59:1690:1001#0/1
a`[abaab`aa`aa_ZT_a^`a`^]a`^]TXZYU[UQ
@HWI-EAS443:3:59:1705:180#0/1
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+HWI-EAS443:3:59:1705:180#0/1
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@HWI-EAS443:3:59:175:207#0/1
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+HWI-EAS443:3:59:175:207#0/1
abbbbb`^abbbb`Z]aabba_S^bbaa`^¥aab¥_a]SX
@HWI-EAS443:3:59:202:502#0/1
ATTGCCCTCTGGGCAGCTGTTTCAAATTTTCCTTTGAGGA
+HWI-EAS443:3:59:202:502#0/1
ab`a¥]aaaa_^^^a¥aa¥^¥S¥`aaaTa`[ZZ`RS
@HWI-EAS443:3:59:220:128#0/1
GTTGCTTATGAAAGAATGTGCAATATCCTCAAAGGAAAAT
+HWI-EAS443:3:59:220:128#0/1
aZ]a`[a¥[_Y_`TR^W__`_]Y_^]XU]^]¥YVRV]
@HWI-EAS443:3:59:384:961#0/1
TCCCAGTGCTGGGAAGGACCCTAAGAAAACAGGAGGACCC

+HWI-EAS443:3:59:384:961#0/1
`a`aa__`aaa`a__`aa`aa_V`Y`a`TZ`]S
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+HWI-EAS443:3:59:393:1493#0/1
ababbabbbb`a``abaY_aabba`aaba`^aaa¥`aa_
@HWI-EAS443:3:59:399:163#0/1
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+HWI-EAS443:3:59:399:163#0/1
aX¥`aa`_S^[a__^aa]a]Y_a[`Y]`X_YZ]]YXY]XW
@HWI-EAS443:3:59:426:1056#0/1
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+HWI-EAS443:3:59:426:1056#0/1
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@HWI-EAS443:3:59:452:1000#0/1
TGCGGTGAAAGGAGTTGGAACAATAGCAATGGAGTTAATC
+HWI-EAS443:3:59:452:1000#0/1
aaa`b_^Xa_`a]Y]abaaaa_a_]¥`aa]]_Y]]__X
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+HWI-EAS443:3:59:460:14#0/1
aabb`a`ab_babbbaba`]ab`b`a`[aaab`XZb¥^
@HWI-EAS443:3:59:499:409#0/1
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+HWI-EAS443:3:59:499:409#0/1
aaaa_bb_b_aaa`a`a`a`a`V]aaa__X_a^RR__[
@HWI-EAS443:3:59:671:1500#0/1
CGCAGGTGCTGCGGTGAAAGGAGTTGGAACAATAGCAATG
+HWI-EAS443:3:59:671:1500#0/1
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@HWI-EAS443:3:59:726:501#0/1
GGGATCAGTTGCACATAAATCCTGCCTGCCTGCTTGTGTG
+HWI-EAS443:3:59:726:501#0/1
[`¥K_[X¥Zabb_aWb_ZY¥`a]_abaabaYVWb`TK_]W
@HWI-EAS443:3:59:873:203#0/1
TGGGTTTCGACTTTCTTACTTGATCCATCATTGCCCTC
+HWI-EAS443:3:59:873:203#0/1
a`b_G_¥``_aba`^aV^aVU_aba_XX^¥`^]`aVTa_X
@HWI-EAS443:3:5:1016:2006#0/1
AGCACTCATTCTGAGGGGATCAGTTGCACATAAATCCTGC
+HWI-EAS443:3:5:1016:2006#0/1
a`a`a_aaY_[aa]`_`Y]^a_]JLa[Wa_W^^¥TBBB
@HWI-EAS443:3:5:1052:1975#0/1
CAGGAAACGCTGAGATTGAAGACCTCATTTTCCTGGCACG
+HWI-EAS443:3:5:1052:1975#0/1
a``aabba`Ua`Ya[a_aab^a[LSa^a`_a_Q^a[aaYa
@HWI-EAS443:3:5:1116:2039#0/1
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+HWI-EAS443:3:5:1116:2039#0/1
ababbbba_ba_aabaabba]bb[abb`bRY[aa_¥_

@HWI-EAS443:3:5:1195:1204#0/1
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+HWI-EAS443:3:5:1195:1204#0/1
a`aaaa`aaa_R____`aZ`_SV____aa_]UX^¥^]aX_]`
@HWI-EAS443:3:5:1195:526#0/1
GCTGTTTTGGAGTAATTTGAATGGGTCTATCCCGACCAGT
+HWI-EAS443:3:5:1195:526#0/1
`abbabbbbbaaa_a_aba^`_]¥[_^]aaa¥^Ya`]^a¥B
@HWI-EAS443:3:5:1298:862#0/1
GCTTTCTGCTTTTGTATGAGAGAAGAAATAAATACCTAGAA
+HWI-EAS443:3:5:1298:862#0/1
_`b`_a_a`babb`b¥[RVSa^b`aaa_`aab`LI¥b`[B
@HWI-EAS443:3:5:1362:700#0/1
GGTCCTCCTGTTTTCTTAGGGTCCTTCCCAGCACTGGGAT
+HWI-EAS443:3:5:1362:700#0/1
a_]`bbaa_babb^Z_a`[a^R^`a`a`¥`a[`aaa``Y]
@HWI-EAS443:3:5:1473:900#0/1
GAGGTCTTCAATCTCAGCGTTTCTGGGTTTCGACTTTCT
+HWI-EAS443:3:5:1473:900#0/1
aaba__bbabbb`b`aba[aba`_aabb`aa^a`^aaa^a
@HWI-EAS443:3:5:1621:1172#0/1
AGTAATTTGAATGGGTCTATCCCGACCAGTGAGTACCCTT
+HWI-EAS443:3:5:1621:1172#0/1
abaa`aab^`b`^F_Uaaa_]OWa^¥`a^a`_Wa0]WBB
@HWI-EAS443:3:5:191:1473#0/1
TGACTTTGAAAGGGAAGGGTACTCACTGGTCGGGATAGAC
+HWI-EAS443:3:5:191:1473#0/1
aababbbababbabababb^aaaaa`aaa^aaaa`aaaaa
@HWI-EAS443:3:5:216:1952#0/1
ATCCCGACCAGTGAGTACCCTTCCCTTTCAAAGTCATGCC
+HWI-EAS443:3:5:216:1952#0/1
aaaa^ab^`_aXa`_¥a_¥a`aa__^a_V``a¥W¥a_¥BB
@HWI-EAS443:3:5:217:397#0/1
GGGTCTCCTGTTTTCTTAGGGTCCTTCCCAGCACTGGGA
+HWI-EAS443:3:5:217:397#0/1
aaa`bbba`ab^aab^a]]^^¥^`^_^]]`_P¥`]]B
@HWI-EAS443:3:5:293:1497#0/1
ATGGGCTTGCAAGTGGGCATGACTTTGAAAGGGA
+HWI-EAS443:3:5:293:1497#0/1
`Q[^UY^PY_`¥aYa[aaGa`Z__R_aN_`^`_U¥¥_BBB
@HWI-EAS443:3:5:391:110#0/1
GCACATTCTTTCATAAGCAACCCTTGTCTTCGTCCATTT
+HWI-EAS443:3:5:391:110#0/1
``a``bbbbabUbb`aaa_a_XabSaVaUaaYa_`U^a_B
@HWI-EAS443:3:5:392:1411#0/1
GTGAAAATGGACGAAGGACAAGGGTTGCTTATGAAAGAAT
+HWI-EAS443:3:5:392:1411#0/1
a]b`a`_aaaaa``aaaa_¥Z```S^`_a^_aa`_a`_^B
@HWI-EAS443:3:5:474:372#0/1
AGCGCTCTTGTCTCTGATATGTGGCATCATTGAGTTGG

+HWI-EAS443:3:5:474:372#0/1
aa`aa`aa`_a[`Y_a_____aX_`]__]^__]^`_X_0B
@HWI-EAS443:3:5:507:579#0/1
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+HWI-EAS443:3:5:507:579#0/1
`babbbbabbbbabbb`]baaba`aaa¥^bb_b[`¥aaB
@HWI-EAS443:3:5:518:64#0/1
GGGTCCTCCTGTTTTCTTAGGGTCCTTCCCAGCACTGGGA
+HWI-EAS443:3:5:518:64#0/1
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@HWI-EAS443:3:5:648:588#0/1
CTGGAGGGGTGAAAATGGACGAAGGACAAGGGTTGCTTAT
+HWI-EAS443:3:5:648:588#0/1
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@HWI-EAS443:3:5:651:1206#0/1
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+HWI-EAS443:3:5:651:1206#0/1
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@HWI-EAS443:3:5:651:567#0/1
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+HWI-EAS443:3:5:651:567#0/1
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@HWI-EAS443:3:5:721:1811#0/1
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+HWI-EAS443:3:5:721:1811#0/1
]`^WQ¥bba_b]]b]abba]]aab_abX^[`baaaaaZaa
@HWI-EAS443:3:5:843:1685#0/1
ATCAGTTGCACATAAATCCTGCCTGCCTGCTTGTGTGTAT
+HWI-EAS443:3:5:843:1685#0/1
a_b]aX]]]^Z[¥`_`Ha]U_M^[aU`[]_____]aUaR¥B
@HWI-EAS443:3:5:854:976#0/1
GCAGGTGCTGCGGTGAAAGGAGTTGGAACAATAGCAATGG
+HWI-EAS443:3:5:854:976#0/1
`aa`a]aaaaab`W_____]a`Xaa_]_0^_^^_XY^^Z[
@HWI-EAS443:3:5:856:1375#0/1
TGACTTTGAAAGGGAAGGGTACTCACTGGTCGGGATAGAC
+HWI-EAS443:3:5:856:1375#0/1
[bbXY[b]aaaa`b`[`aaY`Ya]_^`_Z0Sa^^]U_¥]V
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TAACAATAGAGAGGATGGTGCTTTCTGCTTTTGATGAGAG
+HWI-EAS443:3:5:904:707#0/1
aaa`a`bbbaa`aa`abaR`¥`a_S_]J[aaaX¥aa¥a[`
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+HWI-EAS443:3:5:918:779#0/1
abaabaabaa`ab_aababaaaaaaa`a_a_aa`a``a_a
@HWI-EAS443:3:5:926:909#0/1
CAGTGCACATTTGGATGTAGAATCTCCCGATTCCACCAAT
+HWI-EAS443:3:5:926:909#0/1
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+HWI-EAS443:3:5:964:135#0/1
WS`_`a_¥^L0`^`]^¥ba`]^XSY``aa]Y¥P__^Y`BB
@HWI-EAS443:3:5:98:63#0/1
CAGGTGCTGCGGTGAAAGGAGTTGGAACAATAGCAATGGA
+HWI-EAS443:3:5:98:63#0/1
a`b_^a^`babaNaVY`__¥_¥``[¥_Z____]_VZ_^ZBB
@HWI-EAS443:3:60:1029:872#0/1
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+HWI-EAS443:3:60:1029:872#0/1
a_RMV_]Y]W[[ZaaY¥]^_¥¥Y[`QMSX`UY]YFUaYUQ¥
@HWI-EAS443:3:60:108:609#0/1
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+HWI-EAS443:3:60:108:609#0/1
a`U_`[aaa_``_a^``^^a_YY¥__WT_¥¥WZWWWST
@HWI-EAS443:3:60:1134:1850#0/1
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+HWI-EAS443:3:60:1134:1850#0/1
¥RU_¥XZZ]aGZ`Z^U_XW_]¥Q^¥WW¥QWIRNW_MBBBB
@HWI-EAS443:3:60:1143:284#0/1
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+HWI-EAS443:3:60:1143:284#0/1
ab^]aba_baaa]abaaaba`_a`_]`aa_`^S]_Wa]]
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+HWI-EAS443:3:60:11:438#0/1
aa`[``¥_¥^Ra^]a]Z_VZaZ]]_U`]VN^]¥V¥_XN[Y
@HWI-EAS443:3:60:124:587#0/1
AAGCAACCCTTGCTCCTCGTCCATTTTCACCCCTCCAGAA
+HWI-EAS443:3:60:124:587#0/1
aaaa`a_```_`_]```__]`__^_^]^^]]X]^WRWU
@HWI-EAS443:3:60:1270:477#0/1
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+HWI-EAS443:3:60:1270:477#0/1
a`aaaa_`a`^^_Z`a`]^`XS`X^`__XOVZKTPSBBBB
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+HWI-EAS443:3:60:1275:1048#0/1
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@HWI-EAS443:3:60:1355:1747#0/1
AGCATAACAATAGAGAGGATGGTCTTTCTGCTTTTGATG
+HWI-EAS443:3:60:1355:1747#0/1
aa_`a_a_`_aa`a`a_]Y]SSZ^a_U^¥[¥U_aT]^¥
@HWI-EAS443:3:60:1594:118#0/1
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+HWI-EAS443:3:60:1594:118#0/1
aa^aab_aa_`b_`^`_a`a^]`_a`^``_^^XX]`Y_]`
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+HWI-EAS443:3:60:1628:933#0/1
abba`_]Zab^`a#b`^_aa[_^Z__P_____Wa]]XV^a
@HWI-EAS443:3:60:1764:839#0/1
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+HWI-EAS443:3:60:1764:839#0/1
Y_#_ab_WZ`aaZ^`a`[]a`#[a`#`a_Z[^[VZ]
@HWI-EAS443:3:60:197:1896#0/1
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+HWI-EAS443:3:60:197:1896#0/1
a`^`[^^^#YX^`#Y#[QRT`_`ZY^^_S^YW]W]X]XX]
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+HWI-EAS443:3:60:581:1824#0/1
aa]abaabbaabb`ba`#aaaaa`a_aa`aaaa`_^_a^
@HWI-EAS443:3:60:620:125#0/1
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+HWI-EAS443:3:60:620:125#0/1
aa`_a]XN]^`^Y`^a`aV__a]`_[a__Y#Z#]_`]]QY
@HWI-EAS443:3:60:623:374#0/1
GTCCTCCTGTTTTCTTAGGGTCCTTCCCAGCACTGGGATG
+HWI-EAS443:3:60:623:374#0/1
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@HWI-EAS443:3:60:697:455#0/1
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+HWI-EAS443:3:60:697:455#0/1
aaY^#V#aaaa#a`M`aaa`_aa`]`#^`__^Y__ZS]^]
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+HWI-EAS443:3:60:698:247#0/1
#R^`aa`aZNU`a[a#VVXVSY]W^#V_] [LFYTZSGOUS
@HWI-EAS443:3:60:721:1818#0/1
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+HWI-EAS443:3:60:721:1818#0/1
a^]^abb`^aa]_aa`aTT__aa_a`aaZT`MV#R[[``
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+HWI-EAS443:3:60:759:894#0/1
aba]aaaaaaaaabaaabaaaaa^aaaaa`a`_`_a_a^_
@HWI-EAS443:3:60:846:430#0/1
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+HWI-EAS443:3:60:846:430#0/1
`aX^]aa^Z_[R^]_]`ab#^]_^_Z]`]Y]`_`_^
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+HWI-EAS443:3:60:876:105#0/1
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+HWI-EAS443:3:60:877:208#0/1
abaaaba]b_aa`aa#a`a_^`]#`_`aW__`[`W^`#

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+HWI-EAS443:3:60:946:951#0/1
a_]ba¥Yabaa_ababaaaa`__`a`]SX`]^_^[W^Y
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+HWI-EAS443:3:61:1003:1669#0/1
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@HWI-EAS443:3:61:1270:661#0/1
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+HWI-EAS443:3:61:1270:661#0/1
a^Zab^bb`[babaaabbY`_a^]baU_a`aY¥`_W^_^
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+HWI-EAS443:3:61:1278:419#0/1
_bbaZHW^]aU]a[[a`¥]_a¥]aaYL]a]S`T^UMWVN¥
@HWI-EAS443:3:61:1335:209#0/1
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+HWI-EAS443:3:61:1335:209#0/1
aaXaaabaa]¥`__`a^`a`SWaa`XT][_V^MXRX]XX
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+HWI-EAS443:3:61:1356:2019#0/1
Yb^Sab¥_Z`^aaL`¥]^¥aa¥][a_]QGPYZ[H_¥FOW
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+HWI-EAS443:3:61:138:1487#0/1
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@HWI-EAS443:3:61:1511:1185#0/1
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+HWI-EAS443:3:61:1511:1185#0/1
abaababbbaaba`aba]bb`Zabaaaa`_a^]`^_^]
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+HWI-EAS443:3:61:1569:1685#0/1
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+HWI-EAS443:3:61:1644:1502#0/1
a`^Y^Ua__`X`a`_aaa^`_`aaaa`_P^[V]]^V^GR
@HWI-EAS443:3:61:166:925#0/1
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+HWI-EAS443:3:61:166:925#0/1
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@HWI-EAS443:3:61:1705:1611#0/1
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+HWI-EAS443:3:61:1705:1611#0/1
aba]baba`aaa^¥^abbaaaaaaaaaa^Z_`^`[ZN`_W
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+HWI-EAS443:3:61:172:1105#0/1
aZ]````¥]_`__`V^¥YXWX[U]^ [VOXUXY[VWXZY
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+HWI-EAS443:3:61:1738:213#0/1
a[`W]aa_`a_a`aa¥^ba_a^a¥_b___a^_X]^UZ^^Z
@HWI-EAS443:3:61:1760:1720#0/1
TCCTGTTTTCTTAGGGTCCTTCCCAGCACTGGGATGCTCT
+HWI-EAS443:3:61:1760:1720#0/1
aa_a` `baa^ba_`_]a_aaba`^`a`^`^VV_¥YXX
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AGCAAGTGGGCATGACTTTGAAAGGGAAGGGTACTCACTG
+HWI-EAS443:3:61:1767:1184#0/1
abbbab^]V` `aZa]` `abb]S^bb_R_bb_ZV^` `][Y
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TCTGGGATCCATTCCGGTGCGAACAAGCGCTCTTGTCTC
+HWI-EAS443:3:61:245:1720#0/1
aba^[]`aaaba`a`_]_Zab`][a`aaa_a__Z^_W_^__
@HWI-EAS443:3:61:25:274#0/1
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+HWI-EAS443:3:61:25:274#0/1
aba]a` `abbaYaa`]` ` `aU¥U¥PW]]R]^_RZU¥` [Z]
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+HWI-EAS443:3:61:284:178#0/1
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+HWI-EAS443:3:61:315:1401#0/1
` `a`bb[b`_` `b^`aabbaxZ^a_ab`aaaa[^ [VGNNG
@HWI-EAS443:3:61:398:267#0/1
TGCGGTGAAAGGAGTTGGAACAATAGCAATGGAGTTAATC
+HWI-EAS443:3:61:398:267#0/1
abaaa^baa`aa`a`_aa_a`W_^YZ_____ ` _Z_Z_^]]X
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GATTGGTGAATCGGGAGATTCTACATCCAAATGTGCACT
+HWI-EAS443:3:61:547:798#0/1
]V^]`a]_`Z^[¥U[¥¥Z]^Z^MQ^[¥XWZ_YPUYUXHHO
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TGCATCTTCGCCATTGTTTGCTTGGCGCCAAACTCTCCTT
+HWI-EAS443:3:61:572:908#0/1
ab`a_`bbb`_][b`_]aaW`U`^`b`^P_Z_W[_WPO¥Z
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+HWI-EAS443:3:61:576:897#0/1
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+HWI-EAS443:3:62:1435:863#0/1
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+HWI-EAS443:3:62:1453:373#0/1
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+HWI-EAS443:3:62:1494:672#0/1
¥]_[[YXY_VaU`aaUa[[`XLV)`XFPVRZY__U_Ta`_
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@HWI-EAS443:3:62:1526:702#0/1
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+HWI-EAS443:3:62:1526:702#0/1
a``a``a``a``^]`^aaaba`a``^]_¥`_`a`¥^`^`
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+HWI-EAS443:3:62:1569:96#0/1
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+HWI-EAS443:3:62:360:1531#0/1
a]]aa`aa`_a[`a_aY[Z¥Sa`__`¥^]]V`¥^V`_
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+HWI-EAS443:3:62:510:1125#0/1
aWQZaaaX¥[aa`_`U]`Y`X`````_`¥a[¥¥V_¥_¥^
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GAAGAAATAAATACCTAGAAGAGCATCCCAGTGCTGGGAA
+HWI-EAS443:3:62:569:634#0/1
`_UYUX]^Z¥aaaaa`a_KX`W`[X[_]N_Y_`VXX^XX
@HWI-EAS443:3:62:597:717#0/1
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+HWI-EAS443:3:62:597:717#0/1
abb`^abb^aaaaaba`S_aa`]Ya_aa__a_a_a]a_[[
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+HWI-EAS443:3:62:750:774#0/1
a¥W^aaa^a]TT]b_XWY]^`^[^^^XZUNX¥^XSR]UU
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+HWI-EAS443:3:62:754:705#0/1
ab``aba_abba[bbbbaa_U`a`_]_VXR_] [¥¥¥S_
@HWI-EAS443:3:62:760:774#0/1
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+HWI-EAS443:3:62:760:774#0/1
`a`^]¥]Zaa`a`S_baab_]`aY]^`_`_`]VW]a][
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+HWI-EAS443:3:62:90:116#0/1
_baa^^`ab`]bbabaX^a`b^YT^a^^a^^_a_¥^^T
@HWI-EAS443:3:62:926:654#0/1
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+HWI-EAS443:3:62:926:654#0/1
aaWXaa¥a`_aaa`aaaa`````_aa`_aa__Y]_^_a_
@HWI-EAS443:3:62:991:598#0/1
GGCGCCAAGCAAACAATGGCGAAGATGCAACAGCAGGTCT
+HWI-EAS443:3:62:991:598#0/1
`U`]aTR^OX¥^`]`¥]a[^_a`XZY^W^URJW_YYG[^
@HWI-EAS443:3:63:1017:641#0/1
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+HWI-EAS443:3:63:1017:641#0/1
`V¥a[]b`^N^a`_a_T¥_TRSWUNN][¥X¥¥Ya¥[¥_[]
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+HWI-EAS443:3:63:1215:830#0/1
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+HWI-EAS443:3:63:1321:1362#0/1
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+HWI-EAS443:3:63:1389:1032#0/1
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a^]_`a[]`^^¥W`_Va```_aZSX]X¥`^[[]a_X[Y¥Z
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+HWI-EAS443:3:63:1717:474#0/1
R_]WW^_X_¥¥`^aZ_]_¥`aa]]¥`_^[¥¥__¥¥^a`
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+HWI-EAS443:3:63:200:837#0/1
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aa__a_`[[[`a]aaZ_`[¥`¥[a_`X^R`]]^ZXZ^^W_
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+HWI-EAS443:3:63:697:168#0/1
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+HWI-EAS443:3:63:886:27#0/1
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+HWI-EAS443:3:64:1004:1212#0/1
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_`^`abba`Y__Q_XZ_bb``_¥_]X`_S_``a]__^a]]
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a`aaaa_a`aaaa__a^a_]_^____^_¥¥V_¥¥V¥¥¥V
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a_W][^[_`a[]YZ]^_a^]^_a^XMXa`_`]^`^W_TTY
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+HWI-EAS443:3:64:1364:23#0/1  
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+HWI-EAS443:3:64:1446:929#0/1  
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+HWI-EAS443:3:64:1627:167#0/1  
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+HWI-EAS443:3:64:171:1016#0/1  
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+HWI-EAS443:3:64:190:565#0/1  
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+HWI-EAS443:3:64:198:1816#0/1  
]ba¥a^abbbbaabaaaa¥\_a\_\_a\_]\_]``\_U\_\_\_Wa\_]S  
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+HWI-EAS443:3:64:205:1078#0/1  
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+HWI-EAS443:3:64:711:848#0/1  
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+HWI-EAS443:3:64:724:1270#0/1  
S\_abb]\_¥bbbb\_b¥S`\_aa\_ZZbaabba¥LY\_V[]¥V  
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+HWI-EAS443:3:64:727:86#0/1  
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\_`Z`a\_\_\_^aa[V[^\_ZXZTZ\_aSOT]a¥XX]]UMT]]Y]  
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+HWI-EAS443:3:64:923:1952#0/1  
a^]\_\_U`a^aaa^a[[]YX\_aaa\_a]QW^\_\_\_a¥Y`aa`\_

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+HWI-EAS443:3:64:975:189#0/1  
``b`a`\_R0\_]¥\_Z\_^`X\_a¥^a[]`\_`Z]R]Z`[\_X  
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+HWI-EAS443:3:65:1123:383#0/1  
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a\_¥aa^abaaa`^^^]aa\_a``]\_a`a^]Y\_\_^Z`]Y[  
@HWI-EAS443:3:65:209:449#0/1  
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+HWI-EAS443:3:65:209:449#0/1  
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+HWI-EAS443:3:65:452:82#0/1  
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+HWI-EAS443:3:65:454:1438#0/1  
aaYa`\_`a^`a^0aS\_\_^]\_]\_aX`\_¥^`\_`\_\_W\_Y^U]\_



+HWI-EAS443:3:66:1062:380#0/1  
aaaaaaaa`^a\_aaa\_aa`aa`a`\_`a`\_`aaa^a^\_\_  
@HWI-EAS443:3:66:1086:633#0/1  
GAGGATGGTCTTTCTGCTTTTGATGAGAGAAGAAATAAA  
+HWI-EAS443:3:66:1086:633#0/1  
a\_a]\_`ba]aaa`a^a¥aaaa\_a\_aS`[\_`\_a```\_\_  
@HWI-EAS443:3:66:1192:1677#0/1  
CGGAAGAATGATTGGTGAATCGGGAGATTCTACATCCAA  
+HWI-EAS443:3:66:1192:1677#0/1  
abbbbabbbbabaa\_aabaaaaaaaaaaaaaaaa\_a`\_a^  
@HWI-EAS443:3:66:119:1224#0/1  
GGAAAATGAGGTCTTCAATCTCAGCGTTTCCTGGGTTTCG  
+HWI-EAS443:3:66:119:1224#0/1  
a`abbbab`aa\_aaabbaabaaaaa^a`a`aa```]\_\_a`  
@HWI-EAS443:3:66:1303:1529#0/1  
TGGTGCTTTCTGCTTTTGATGAGAGAAGAAATAAATACCT  
+HWI-EAS443:3:66:1303:1529#0/1  
XW\_[\_``¥\_¥Z`[[\_`¥Z^Y^aZ[a]\_Z¥\_]`^aaa`a\_LR^  
@HWI-EAS443:3:66:1308:647#0/1  
GCTTTCTGCTTTTGATGAGAGAAGAAATAAATACCTAGAA  
+HWI-EAS443:3:66:1308:647#0/1  
aba`aa\_aaaaaa\_aa]a]a\_\_`¥^Za\_a\_\_a^`\_a\_\_\_\_  
@HWI-EAS443:3:66:1331:433#0/1  
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+HWI-EAS443:3:66:1331:433#0/1  
ab]Z`abab`a`[UWa^aa\_aaa^`baaa`a```\_aa`\_\_\_\_  
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+HWI-EAS443:3:66:1360:851#0/1  
aaaabaaabaaababba^`aaaaa^aaaa\_a```^aaaa`  
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CTGCTGTTGCATCTTCGCCATTGTTTGCTTGCGCCAAAC  
+HWI-EAS443:3:66:1380:1526#0/1  
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@HWI-EAS443:3:66:1451:49#0/1  
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+HWI-EAS443:3:66:1451:49#0/1  
aabbbb`abab\_b`abaa\_aab\_```b`\_aa\_aaaaNU\_  
@HWI-EAS443:3:66:1483:53#0/1  
GTCCTCCTGTTTTCTTAGGGTCCTTCCCAGCACTGGGATG  
+HWI-EAS443:3:66:1483:53#0/1  
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ACTCCTTTCACCGCAGCACCTGCGGCACCAGACCTTCTGG  
+HWI-EAS443:3:66:1516:173#0/1  
\_W\_aab```\_bb^^^Z`baa`X¥ba```\_]b][OKMP]a[  
@HWI-EAS443:3:66:1583:1981#0/1  
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+HWI-EAS443:3:66:1583:1981#0/1  
`baaa`aaa`aa^`]a]aaaa\_a`a`\_a]`\_]`^XZZ^





+HWI-EAS443:3:66:719:899#0/1  
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@HWI-EAS443:3:66:771:176#0/1  
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+HWI-EAS443:3:66:771:176#0/1  
aU]^ZNN[]]MUTR^\_aU\_UW¥¥^S¥W¥¥SWS¥WSSLHHP  
@HWI-EAS443:3:66:781:1082#0/1  
GCAATATCCTCAAAGGAAAATTTCAAACAGCTGCCCAGAG  
+HWI-EAS443:3:66:781:1082#0/1  
¥a]]aYabaabbbW^^`ba`bbbaa]b`]a``baaa``a  
@HWI-EAS443:3:66:837:1752#0/1  
GTACTCACTGGTCGGATAGACCCATTCAAATTACTIONCAA  
+HWI-EAS443:3:66:837:1752#0/1  
aU[baaaaZU`Vb`\_a]UaR\_``^Q\_`]XaZ`ZaMZ]L\_]  
@HWI-EAS443:3:67:1054:865#0/1  
CTTATGAAAGAATGTGCAATATCCTCAAAGGAAAATTTCA  
+HWI-EAS443:3:67:1054:865#0/1  
¥¥]bba\_`aa]`aaN^`^Z\_`b```aa]ab````b\_bZ^``  
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GGGGAGCGCCAGGATGCCACAGAAATCAGAGCATCTGTCCG  
+HWI-EAS443:3:67:1094:1278#0/1  
aabb\_`\_T`]abba`ZJ`baa¥Wbbababab\_``aaaQ]]  
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GAATCTCCCGATTCCACCAATCATTCTTCCGACAGATGCT  
+HWI-EAS443:3:67:1127:1082#0/1  
\_baababaaaaaa`aaaaaaaaa``````a\_a`^aa\_aaa`  
@HWI-EAS443:3:67:1158:454#0/1  
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+HWI-EAS443:3:67:1158:454#0/1  
aa`````aa^aaaa`^`\_`^aaa\_a``a]a\_a\_\_a^`aa`\_\_  
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+HWI-EAS443:3:67:1184:765#0/1  
a`aaa`baaa`\_b\_\_a`^ZYU````]`a`\_`^`\_`[\_]^^\_  
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+HWI-EAS443:3:67:1324:420#0/1  
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GAATGATTGGTGAATCGGGAGATTCTACATCCAAATGTG  
+HWI-EAS443:3:67:1355:772#0/1  
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+HWI-EAS443:3:67:1400:1702#0/1  
aaaaaab`bb\_a`\_aaa`aa``a]\_\_`a```^`a[a\_\_\_¥X  
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ATCATAATCACTGAGTTTGAGTTCAGTGCACATTTGGATG  
+HWI-EAS443:3:67:1406:247#0/1  
a^]`^a^¥T\_W\_`^¥ZY^`aZ`Za`¥¥¥\_\_[¥\_^]Y\_PUW¥



+HWI-EAS443:3:67:457:461#0/1  
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@HWI-EAS443:3:67:462:986#0/1  
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+HWI-EAS443:3:67:462:986#0/1  
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CTTCCGACAGATGCTCTGATTTCTGTGGCCTCCTGGCGCT  
+HWI-EAS443:3:67:46:1114#0/1  
aaaaaaaa`a^Z]X^^`\_¥¥[``a\_`aW^Za\_[^^TSS^P¥W  
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+HWI-EAS443:3:67:479:1983#0/1  
aaaaa^`\_`\_a\_\_\_\_`[S\_`]^\_\_\_\_TV[``aJ[^]\_Y^][^¥  
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ATGACTTTGAAAGGGAAGGGTACTCACTGGTCGGGATAGA  
+HWI-EAS443:3:67:50:1992#0/1  
S]Z`ba```a`^`[Y^^Z[ZQab^aa`[U]U`]^`UY¥`  
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+HWI-EAS443:3:67:513:1151#0/1  
a[\_bb`aIab^b\_`bbbaaaZ]aY^ZU`abaaab^Z\_`aa  
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+HWI-EAS443:3:67:561:1573#0/1  
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TGAGTACCCTTCCCTTTCAAAGTCATGCCCACTTGCTACT  
+HWI-EAS443:3:67:616:1824#0/1  
VW[LL\_\_WW\_WX[^¥QG\_ba¥¥0¥a]^R^WI\_^GV]U`XT  
@HWI-EAS443:3:67:617:990#0/1  
ATCCAGAATAGCATAACAATAGAGAGGATGGTCTTTCTG  
+HWI-EAS443:3:67:617:990#0/1  
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@HWI-EAS443:3:67:634:1699#0/1  
CTGGGTTTCGACTTTCTCTTACTTGATCCATCATTGCCCT  
+HWI-EAS443:3:67:634:1699#0/1  
aaaab¥`abaaaababaaaaabaaaa`baaab``[a``^  
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GGAGGGGTGAAAATGGACGAAGGACAAGGGTTGCTTATGA  
+HWI-EAS443:3:67:666:316#0/1  
`a\_ababVa`\_a^b\_a`^a``\_\_\_\_a^a¥`Z^aV\_a`aa\_  
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GTTCCAACCTCTTTCACCGCAGCACCTGCGGCACCAGACC  
+HWI-EAS443:3:67:701:517#0/1  
aabab]baaa`bbaabaab^aaaaaaaaa^aaa]a\_a\_^^  
@HWI-EAS443:3:67:758:1331#0/1  
GATGGACGACTAATCCAGAATAGCATAACAATAGAGAGGA  
+HWI-EAS443:3:67:758:1331#0/1  
^bVb`abb\_[``a^`^`\_`¥]\_a`RRYa`^aa\_\_`baaaa



+HWI-EAS443:3:68:1586:1452#0/1  
aa¥Y¥XJ[L[NVS^bYZKMX\_Q`Ra[^UVWwSNL[V```Q  
@HWI-EAS443:3:68:1612:239#0/1  
TGGGCTTGACAGTAGCAAGTGGGCATGACTTTGAAAGGGAA  
+HWI-EAS443:3:68:1612:239#0/1  
`b`\_Z`¥a`^b^SaaS^ZU^S^`\_\_¥W`aaW¥^¥W`¥Z  
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GTCTGGTGCCGAGGTGCTGCGGTGAAAGGAGTTGGAACA  
+HWI-EAS443:3:68:1614:774#0/1  
a\_abab¥```a\_^aaZ`\_]Z`aU]VY^X^T[RX]`Q[Q[  
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+HWI-EAS443:3:68:1635:1309#0/1  
`W[abaaaUba^`^ZaSaa`a0a]¥`a\_a\_^GHYW][ ]\_  
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+HWI-EAS443:3:68:1662:550#0/1  
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+HWI-EAS443:3:68:1711:550#0/1  
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CGGGAGATTCTACATCCAAATGTGCACTGAACTCAAATC  
+HWI-EAS443:3:68:190:764#0/1  
aa¥a`^Y`aa]¥]`\_aaa`\_\_^Ua`a^^`\_Z^\_\_\_\_¥Z¥\_`^  
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GGGTCCTCCTGTTTTCTTAGGGTCCTTCCCAGCACTGGGA  
+HWI-EAS443:3:68:191:243#0/1  
aba^bbaabbb`aaaaaaaaa\_\_aaaaaaaa\_aaa``a`\_  
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GCCCTCTGGGCAGCTGTTTGAATTTTCCTTTGAGGATAT  
+HWI-EAS443:3:68:217:203#0/1  
`\_abababaaa`aaaaaaaaaaaaa`\_aaaa`\_aa]\_Z`  
@HWI-EAS443:3:68:228:1408#0/1  
CAATAGAGAGGATGGTGCTTTCTGCTTTTGATGAGAGAAG  
+HWI-EAS443:3:68:228:1408#0/1  
aaaaa\_Y]```^aa¥P\_¥]`\_a^Z\_Z^`UXYS^^^^Y\_`^  
@HWI-EAS443:3:68:243:600#0/1  
GACTAATCCAGAATAGCATAACAATAGAGAGGATGGTGCT  
+HWI-EAS443:3:68:243:600#0/1  
aaaaab\_aaaa\_]`\_\_a`\_\_^`\_]a``\_`\_`\_]`^\_¥UT[X  
@HWI-EAS443:3:68:375:1578#0/1  
ATGGGCTTGACAGTAGCAAGTGGGCATGACTTTGAAAGGGA  
+HWI-EAS443:3:68:375:1578#0/1  
`a^^aba]T^aaV]`aa`^S[a^a``^a\_``a]a``¥^M\_

@HWI-EAS443:3:68:392:1181#0/1  
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+HWI-EAS443:3:68:392:1181#0/1  
a]R]^YV¥\_KW`MZUSZaQ`a]aVY¥]UVYXFX¥UQQ[UW  
@HWI-EAS443:3:68:409:1228#0/1  
GGTCCTCCTGTTTTCTTAGGGTCCTTCCCAGCACTGGGAT  
+HWI-EAS443:3:68:409:1228#0/1  
aa\_bbbaaa^bbabbabab`\_abbabbbbabbbababa\_a  
@HWI-EAS443:3:68:454:671#0/1  
ATCAGTTGCACATAAATCCTGCCTGCCTGCTTGTGTGTAT  
+HWI-EAS443:3:68:454:671#0/1  
aa`a]\_`a`\_`X`\_aa`a```]\_\_`^]U¥``\_¥`¥^W^^  
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GCATGACTTTGAAAGGAAGGGTACTCACTGGTCGGGATA  
+HWI-EAS443:3:68:465:1886#0/1  
RY\_``bbba\_abb]WY[bUbb\_Y`b`bb\_`^`\_¥V][L  
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+HWI-EAS443:3:68:573:1116#0/1  
a\_a\_Z\_bab`aa\_\_abaaaaX`aaaa`]`aa\_a`aU\_\_  
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+HWI-EAS443:3:68:711:410#0/1  
a\_bb\_b\_bba^ab```abaaa\_W]W^^a`\_aba]``\_Vba  
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+HWI-EAS443:3:68:733:857#0/1  
a`Y`\_[b]¥aa¥Y\_aba^]Ya`\_\_a\_\_aa]`a`X]¥ZY^U  
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¥abba]bbbbbabba`aabaaba`aaaa\_ba`a\_aa¥  
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TCCTGTTTTCTTAGGGTCCTTCCCAGCACTGGGATGCTCT  
+HWI-EAS443:3:68:931:112#0/1  
ZR]]```abaa¥aa`][\_\_\_a^W\_Z\_[XY]Xa^^GJ]aY^N¥  
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+HWI-EAS443:3:68:964:156#0/1  
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+HWI-EAS443:3:69:1117:591#0/1  
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+HWI-EAS443:3:69:1213:1261#0/1  
]bab^ba`abaa\_\_Q^aaa`\_^aaa\_[\_` `aR[aZN[``P  
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+HWI-EAS443:3:69:1229:1426#0/1  
\_XV]]` `¥0\_`U^^aWTPSX`¥]U^VJXX^PY^UUQSQUU  
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+HWI-EAS443:3:69:1276:2008#0/1  
aaa`[\_` `b\_UZaa`\_^US]`\_]T¥[00[^TWLWP\_^U^\_^  
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+HWI-EAS443:3:69:1415:306#0/1  
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CTGCTGTTGCATCTTCGCCATTGTTTGCTTGCGGCCAAAC  
+HWI-EAS443:3:69:1430:1401#0/1  
abbabbab`baaab`a]a` `baaabaaVa`P^\_Va\_a` `S  
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+HWI-EAS443:3:69:150:222#0/1  
aaaaaaR`aa]aaa]a\_^a`\_\_\_\_\_a\_[¥Y^`\_]`\_^Y\_  
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GGAGGGGTGAAAATGGACGAAGGACAAGGGTTGCTTATGA  
+HWI-EAS443:3:69:1528:986#0/1  
aa^aaaaYa` `` ` \_aa\_\_a^\_\_\_Z^`^a\_\_Y]a¥\_`^`\_^  
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+HWI-EAS443:3:69:1537:958#0/1  
abab\_` `baabbbaaa`\_Y¥baabaaab`a\_]aW[]aaa`  
@HWI-EAS443:3:69:15:1431#0/1  
ATTGCCCTCTGGGCAGCTGTTTGAATTTTCCTTTGAGGA  
+HWI-EAS443:3:69:15:1431#0/1  
¥IVbaa\_^^` `a^¥TUYN¥LaYV^O\_WXH[^^^`ZST\_\_¥P  
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GATGGTGCTTTCTGCTTTTGATGAGAGAAGAAATAAATAC  
+HWI-EAS443:3:69:1652:2018#0/1  
]\_^bb`baabaa`\_OS^`aaaZ\_Ha` `` `]\_X¥` ` [[]a]Y  
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+HWI-EAS443:3:69:1716:661#0/1  
aaa\_aaaaaa]a]`a\_a`\_Y^aa]`\_\_` `\_^\_aU¥\_\_`¥  
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+HWI-EAS443:3:69:1753:253#0/1  
aaY`aba]baTGUUTQ]`QU¥^WLWWP^^\_XVL¥[RWXRY  
@HWI-EAS443:3:69:261:1863#0/1  
AATTTCTGGAGGGGTGAAAATGGACGAAGGACAAGGGTTG  
+HWI-EAS443:3:69:261:1863#0/1  
¥^\_aabaa[aa^^a][`` `^aa\_aa\_a`^^\_]`^]ZY]



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AGCGCCAGGATGCCACAGAAATCAGAGCATCTGTCCGGAAG  
+HWI-EAS443:3:69:301:939#0/1  
TWaab\_¥a\_W\_babbb^a^HY¥`aT]Z\_Z`^XNUJUKZR  
@HWI-EAS443:3:69:324:1203#0/1  
CTGGAGGGGTGAAAATGGACGAAGGACAAGGGTTGCTTAT  
+HWI-EAS443:3:69:324:1203#0/1  
ab]bVaa\_aGa]^YUaaaa^U`^]aaab`a^`R^a]]^Z`  
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CACATAAATCCTGCCTGCCTGCTTGTGTGTATGGGCTTGC  
+HWI-EAS443:3:69:397:468#0/1  
ababaaaaa`aa\_a`a`\_\_a`a\_a¥\_¥a¥``\_^]W¥^\_  
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TGGGCATGACTTTGAAAGGAAGGGTACTCACTGGTCGGG  
+HWI-EAS443:3:69:489:1197#0/1  
a^aaabba`baaa\_a]^\_LYaa``a\_aabaa\_abX^aa\_a  
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CTCATTCTGAGGGATCAGTTGCACATAAATCCTGCCTGC  
+HWI-EAS443:3:69:72:880#0/1  
aaaaaabaaaaaaaa`^aa^`a`¥`aaa`a^\_a^`^^^\_\_  
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CAGTTGCACATAAATCCTGCCTGCCTGCTTGTGTGTATGG  
+HWI-EAS443:3:69:783:607#0/1  
a\_b\_aaabaabbaa`aaaaaaaa`a`a`aZaVa^````\_  
@HWI-EAS443:3:69:842:316#0/1  
GAATGATTGGTGAATCGGGAGATTCTACATCCAAATGTG  
+HWI-EAS443:3:69:842:316#0/1  
a^QT]X\_a¥VTYW]X¥^¥Y]\_WUWUTXYFYNNZ^¥U[¥X^  
@HWI-EAS443:3:69:84:1599#0/1  
AGGTCTTACTCATATCATGATTTGGCATTCCAACCTGAAT  
+HWI-EAS443:3:69:84:1599#0/1  
\_]`]aa`aaaaaa^a\_aaa^^^^Xaa`^aa`a`\_]Z\_]`  
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TGGGCTTGCAGTAGCAAGTGGGCATGACTTTGAAAGGGAA  
+HWI-EAS443:3:69:879:1840#0/1  
aaa^baaaaaa¥aaaaaaWa```aaaa\_aaaa]a`\_`\_\_\_\_  
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GTGCTTTCTGCTTTTGTATGAGAGAAGAAATAAATACCTAG  
+HWI-EAS443:3:69:920:1118#0/1  
aaaaabaaabaaaaab\_aa`aa`^`aaaaa\_NXR`PBBB  
@HWI-EAS443:3:69:932:836#0/1  
CAAGGTTCAACACTTCCCAGAAGGTCTGGTGCCGCAGGTG

+HWI-EAS443:3:69:932:836#0/1  
T]Q^\_W\_b\_^a^bbbb`b]¥XW]\_`Z`XQGWba¥``]^N^  
@HWI-EAS443:3:69:933:1479#0/1  
TAACAATAGAGAGGATGGTGCTTTCTGCTTTTGATGAGAG  
+HWI-EAS443:3:69:933:1479#0/1  
]b¥bbbbba`a`aa`a^X^^¥¥aa\_X[UY\_WT¥^Z]\_`X  
@HWI-EAS443:3:69:958:380#0/1  
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+HWI-EAS443:3:69:958:380#0/1  
aaa`aaaa`\_`aaaa^`a\_aaaaa\_\_aa\_``a]a```aa  
@HWI-EAS443:3:69:961:702#0/1  
AAAGTCGAAACCCAGGAAACGCTGAGATTGAAGACCTCAT  
+HWI-EAS443:3:69:961:702#0/1  
¥¥¥`SaaXVRNRN\_Z¥Ya\_^YL^^ZWP¥]`\_`SRFO¥XZY  
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+HWI-EAS443:3:69:975:1647#0/1  
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@HWI-EAS443:3:69:97:472#0/1  
GTCAGCACTCATTCTGAGGGGATCAGTTGCACATAAATCC  
+HWI-EAS443:3:69:97:472#0/1  
a¥baaaZ`\_aaa\_```\_\_\_\_^Y¥`\_`\_\_^¥^\_\_\_\_]W^^[¥  
@HWI-EAS443:3:69:980:171#0/1  
ATTGCCCTCTGGGCAGCTGTTTGAAATTTTCCTTTGAGGA  
+HWI-EAS443:3:69:980:171#0/1  
abbaaaaaabaa]```ab^ab```aa\_a\_\_aaaa^aa`  
@HWI-EAS443:3:6:1049:991#0/1  
GAATAGCATAACAATAGAGAGGATGGTGCTTTCTGCTTTT  
+HWI-EAS443:3:6:1049:991#0/1  
aaaba¥Z^`ZY\_a`aab\_]`aa\_\_a\_U`M¥`¥S^YPY```\_  
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+HWI-EAS443:3:6:1092:1736#0/1  
]baabba^bbab`bba^babaa`b\_b`^bbaaaaaabaa  
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GAAATTTCTGGAGGGGTGAAAATGGACGAAGGACAAGGGT  
+HWI-EAS443:3:6:1094:141#0/1  
abaabab`bba\_\_aaaXa\_^`\_aa\_\_Wa\_^`\_^Z\_\_\_\_¥Z  
@HWI-EAS443:3:6:1285:238#0/1  
GGGTCCTCCTGTTTTCTTAGGGTCCTTCCCAGCACTGGGA  
+HWI-EAS443:3:6:1285:238#0/1  
ZbbZ00`baa\_aabba`baa\_`\_\_ba]WZab\_a¥\_aa\_¥  
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+HWI-EAS443:3:6:1344:1479#0/1  
]ba\_`aXaa¥abbaZ\_\_\_\_¥W\_Ra^\_]a`aWaa[`aba\_\_a  
@HWI-EAS443:3:6:1369:229#0/1  
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+HWI-EAS443:3:6:1369:229#0/1  
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@HWI-EAS443:3:6:1463:651#0/1  
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+HWI-EAS443:3:6:1463:651#0/1  
aRZSZNY[\_K]\_¥IZ`Z\_X\_VN¥[¥TGRUZ¥[VSZ\_NWBB  
@HWI-EAS443:3:6:1516:1712#0/1  
CAGGATTTATGTGCAACTGATCCCCTCAGAATGAGTGCTG  
+HWI-EAS443:3:6:1516:1712#0/1  
a\_bb` `a^\_a\_aSa`b]bb`XPVPW^Z]b`]aaaaUaV[X  
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+HWI-EAS443:3:6:1581:1082#0/1  
ababa\_b`a[abb\_bbabbbY`\_\_\_aaaa[^]``\_a\_\_Q  
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CATAAATCCTGCCTGCCTGCTTGTGTGTATGGGCTTGCAG  
+HWI-EAS443:3:6:1700:1435#0/1  
abbbb\_bbbbab^baa^bb\_bbb]^`aZ`\_aaa`\_[`U[\_  
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+HWI-EAS443:3:6:187:1284#0/1  
abbaaabaaababaaaaa`baa`a^¥aaa\_aaaaY¥^aaa  
@HWI-EAS443:3:6:283:1306#0/1  
GCGCTCTTGTCTCTGATATGTGGCATCATTGAGTTGGA  
+HWI-EAS443:3:6:283:1306#0/1  
\_b`bbbb` `bbbabaaaaa^`\_aaaa]aa¥abaaaaa  
@HWI-EAS443:3:6:313:1744#0/1  
GTCGGAAGAATGATTGGTGAATCGGGAGATTCTACATCC  
+HWI-EAS443:3:6:313:1744#0/1  
^T[\_aaaZZ\_UW^S[HQMFY]YV^`\_] [VX[UVSFVBBB  
@HWI-EAS443:3:6:334:1836#0/1  
GGTGCTTTCTGCTTTTGATGAGAGAAGAAATAAATACCTA  
+HWI-EAS443:3:6:334:1836#0/1  
aZS\_\_GTISS\_WSWV]\_ZIZVYSOOZXU[V] []BBBBBBB  
@HWI-EAS443:3:6:468:478#0/1  
ATCCAGAATAGCATAACAATAGAGAGGATGGTGCTTTCTG  
+HWI-EAS443:3:6:468:478#0/1  
aaa^aaaaa`b\_ab` `a` `aa`a\_a\_\_^]\_Wa^^\_HZ]  
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TGCCGCAGGTGCTGCGGTGAAAGGAGTTGGAACAATAGCA  
+HWI-EAS443:3:6:491:900#0/1  
ab`\_a\_\_\_\_\_Y`\_]\_¥`aG\_¥W`]ZT^H^\_¥V¥UWWW¥¥BB  
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CTGGGTTTTCATTTGGTCTCATCAGGCTGACCACTTGGCT  
+HWI-EAS443:3:6:636:1325#0/1  
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@HWI-EAS443:3:6:710:496#0/1  
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+HWI-EAS443:3:6:710:496#0/1  
\_¥RZT^`T\_a\_a]Z`G`a]\_VYUa\_\_NFV\_¥¥^aV\_YTS  
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+HWI-EAS443:3:6:742:561#0/1  
aa]^¥Z\_^`aZS``]``ZVaaZGYba]]aab]¥\_\_UY\_Y\_  
@HWI-EAS443:3:6:756:1063#0/1  
CTAATCCAGAATAGCATAACAATAGAGAGGATGGTGCTTT  
+HWI-EAS443:3:6:756:1063#0/1  
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+HWI-EAS443:3:6:772:775#0/1  
\_a^`\_`abUbbabba`^a`\_Z^Vaaa]\_]abXbaaaaOR\_\_  
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+HWI-EAS443:3:6:941:227#0/1  
`aababbbbaabaa````aa\_aaa\_a\_b`aa\_aZ\_\_aY]  
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GAAGGGTACTCACTGGTCCGGATAGACCCATTCAAATTAC  
+HWI-EAS443:3:6:969:1790#0/1  
ab`ba[D[aa]a\_a]aXYa\_a¥`^\_aT^aaaa^a`aaaa]  
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+HWI-EAS443:3:6:977:29#0/1  
ab`aaZb¥aa\_b\_\_W`[Z`[WQ\_[Z`\_\_`SU\_\_^U^W\_BB  
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+HWI-EAS443:3:70:1050:1788#0/1  
`abbabbaaZ`aaa]aabbaaa``a\_aa`aaa`\_`\_\_aaa`  
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+HWI-EAS443:3:70:1061:1504#0/1  
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TGAACTCAAATCAGTGATTATGATGGACGACTAATCCAG  
+HWI-EAS443:3:70:1103:1916#0/1  
ab`¥\_M`¥]`\_`¥bUVbb[R[]]^¥\_HYHQ]WT^YZaYb]  
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+HWI-EAS443:3:70:1244:165#0/1  
ab\_^VHYQZaS\_^W]RXZaTS¥OG]Z[LSTY]^^^aa\_]X  
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+HWI-EAS443:3:70:133:1449#0/1  
abba^babYW¥bW¥\_a\_bb¥Q\_aaaa]¥Va]`a^`XY^]  
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GGCTGTTTTGGAGTAATTTGAATGGGTCTATCCCGACCAG  
+HWI-EAS443:3:70:1347:781#0/1  
`abb¥P¥bbY[J[XU[aba`^bWaa\_ZXab`TUZa`VV\_¥

@HWI-EAS443:3:70:1467:746#0/1  
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+HWI-EAS443:3:70:1502:2011#0/1  
a\_0]]bb^XJ\_`¥aGRa]aa[^]Ua¥X`\_\_a\_\_S¥\_a\_\_Y  
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+HWI-EAS443:3:70:1650:1343#0/1  
[bbbb]bbbb[ababb]baabbbbaa\_aabaa¥b\_ba  
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+HWI-EAS443:3:70:1661:146#0/1  
````\_aa`¥`\_a\_a`^a^aaaa]``\_]W`[\_Z[^`\_^\_  
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+HWI-EAS443:3:70:1687:2032#0/1
[a¥Y`bbbb[Ob`R¥bWbbaaa`a^Pa_`IbaWU__aa
@HWI-EAS443:3:70:169:1112#0/1
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+HWI-EAS443:3:70:169:1112#0/1
a_^_aa_`^^ZT[aab``_XJ_T`b_a]a^YU`a_¥^00`
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GAATGATTGGTGAATCGGGAGATTCTACATCCAAATGTG
+HWI-EAS443:3:70:1710:511#0/1
aa`[^]^a¥XVaZX`_W^^`Y_NSX¥WVPU^¥]ZLP`XX[
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+HWI-EAS443:3:70:1716:1401#0/1
aZbb_abbaba`S¥aa^baa`aaaa]aUaa¥aR]Z`^]¥
@HWI-EAS443:3:70:1724:476#0/1
GAGCGCCAGGATGCCACAGAAATCAGAGCATCTGTCCGGAA
+HWI-EAS443:3:70:1724:476#0/1
aaabaaaaab_a__aa_bbaabaaaaX[aa^aa]V¥_NU
@HWI-EAS443:3:70:1729:1103#0/1
TAACAATAGAGAGGATGGTGCTTTCTGCTTTTGATGAGAG
+HWI-EAS443:3:70:1729:1103#0/1
_^^^a_a¥a_b_aa`aaXa]_aaP__]_aa`]SZTS_N_
@HWI-EAS443:3:70:258:684#0/1
CCTGTTTTCTTAGGGTCCTCCCAGCACTGGGATGCTCTT
+HWI-EAS443:3:70:258:684#0/1
abbb_aabaaa`a`^aa_aa`b_aa```_`¥`_a____`]
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+HWI-EAS443:3:70:260:1176#0/1
a`^aa``[Iaaaabaaa`S`baSa_aa`Z¥[____`_]
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+HWI-EAS443:3:70:297:2010#0/1
ab^bab_Z]MXW_X]`[WUR¥Zb`^]Q]_`X^^¥YLUYMQ
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CATGACTTTGAAAGGGAAGGGTACTCACTGGTCGGGATAG
+HWI-EAS443:3:70:362:307#0/1
aYaaX`baaa]ZSWV]^Za`a]a`_`a^_¥XS]`]___^^
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TAACAATAGAGAGGATGGTGCTTTCTGCTTTTGATGAGAG
+HWI-EAS443:3:70:409:1378#0/1
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+HWI-EAS443:3:70:416:1406#0/1
aa_``]aaaa^YZVY`V]_^]]^]]Y^¥a_]^^]^_^^X
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AATTACTCCAAAACAGCCAAGTGGTCAGCCTGATGAGACC
+HWI-EAS443:3:70:456:926#0/1
¥Yb`Uaa_a`a¥]aa_[a_^aZ`_¥`__Z¥^a¥`____Z^
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GGGATCCATTCCGGTGCGAACAAGCGCTCTTGTCTCTGA
+HWI-EAS443:3:70:463:1417#0/1
ab^__bbbbbabbba_bbabaab_abaaaaaaa_aaaa``a
@HWI-EAS443:3:70:659:553#0/1
TGTCGGAAGAATGATTGGTGAATCGGGAGATTCTACATC
+HWI-EAS443:3:70:659:553#0/1
a^_`¥^_Za^S]aaaa__]`a^Z]a`^^]_^Y`[_`¥_^[
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+HWI-EAS443:3:70:690:1854#0/1
aba`_`bUN¥`_a^]aaa`[_^^UWa[]¥a_Z`¥__^[^V
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a^L¥__WXa]ZQVU_Z__Z¥WLQ[]X[WS[X^TZ_¥L
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aa_W_a_bab`bbabababba]aa`aa`_``baa`ab`a^
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+HWI-EAS443:3:70:747:1690#0/1
aTb]¥V_WYR]PVaQK¥[][_][`¥_Y]`_`R][_XO¥][
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CTTCAATCTCAGCGTTTCCTGGGTTTCGACTTTCTCTTAC
+HWI-EAS443:3:70:829:1009#0/1
``a^^]bb]bbb_¥aa]]]Q]U]Y`aXaZXaa``_____

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+HWI-EAS443:3:70:845:1583#0/1
`a`^a]aaRLaX`R^^``¥PVSS]_`_RT`_`a^YY__^
@HWI-EAS443:3:70:913:408#0/1
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+HWI-EAS443:3:70:913:408#0/1
aaaa]aaa]X_a_````_^^^_^^^_W__^_^^^]]X¥Z
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+HWI-EAS443:3:70:987:670#0/1
a``bbb`aaaba__T`_`baba`a^T_a¥a`aaaZ``aa
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+HWI-EAS443:3:71:100:471#0/1
ab`aaaaaaa_aa`¥aaa`a`Y`^a]a]¥`^a_^^]¥YQ
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+HWI-EAS443:3:71:1137:1039#0/1
aaR¥]XUWa^MR_a^]__a_]`Y[_`¥YZ]Na]a_[¥`[_`
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+HWI-EAS443:3:71:1191:1471#0/1
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+HWI-EAS443:3:71:1191:744#0/1
a_abaaa`_]aabbbbaaa[aa^[aXaaa`aa_a[T_a_
@HWI-EAS443:3:71:1195:1736#0/1
AGGATTTATGTGCAACTGATCCCCTCAGAATGAGTGCTGA
+HWI-EAS443:3:71:1195:1736#0/1
aaa`a`ab_a]`_aa`aaa_aa`__a`aa^_____^_]`^
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+HWI-EAS443:3:71:1205:1782#0/1
a_```¥__bb``aaaaa`aa_a¥V`b¥_W`a`_P^]PWDD
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GCTGTTTGAATTTTCCTTTGAGGATATTGCACATTCTTT
+HWI-EAS443:3:71:1263:373#0/1
a^ab^¥_a[```aa_a__a]a¥`_U`0__`]YU^__[]]_
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+HWI-EAS443:3:71:127:62#0/1
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@HWI-EAS443:3:71:131:483#0/1
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+HWI-EAS443:3:71:131:483#0/1
^Z[GP_¥_ba_]ZbZ_¥[^aR`¥`bb`aa^ba[]UXabb
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abb_XZa^`__SPZab¥aa]XaVa¥aa][N]Xa_[U___a
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+HWI-EAS443:3:71:1489:403#0/1
]Tabb`bbbb_bb``abab_``ZDZa`abaaT_Vba_aa
@HWI-EAS443:3:71:1552:373#0/1
CACCATCCTCTATTGTTATGCTATTCTGGATTAGTCGT
+HWI-EAS443:3:71:1552:373#0/1
^aaW^a_¥_¥]F^a[aa¥]a^Z_¥ab_aa`¥_¥`M_Z[PX
@HWI-EAS443:3:71:1641:888#0/1
CCTGGGTTTCGACTTTCTTTACTTGATCCATCATTGCC
+HWI-EAS443:3:71:1641:888#0/1
aabbbaabbaaaabbbbabbb`babbaa]ababa`a_[]
@HWI-EAS443:3:71:1656:394#0/1
ATGACTTTGAAAGGAAGGGTACTCACTGGTCGGGATAGA
+HWI-EAS443:3:71:1656:394#0/1
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@HWI-EAS443:3:71:225:1478#0/1
GGATGGTGCTTTCTGCTTTTGATGAGAGAAGAAATAAATA
+HWI-EAS443:3:71:225:1478#0/1
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@HWI-EAS443:3:71:245:736#0/1
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+HWI-EAS443:3:71:245:736#0/1
a``_^UY`aaaaaXaaa_a]^Y_¥]a]Ya`^`_
@HWI-EAS443:3:71:273:1545#0/1
AGGAAACGCTGAGATTGAAGACCTCATTTCCTGGCACGG
+HWI-EAS443:3:71:273:1545#0/1
_¥_a]a`a`]`__`__aaZ¥`a__T]_a^```]_U`_^[[
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GGCTTGCAAGTGGGATGACTTTGAAAGGAAGG
+HWI-EAS443:3:71:341:1365#0/1
abbb^^a`a``ba__Z¥aab_aa^_aab^^aaaa]aa`a
@HWI-EAS443:3:71:371:1289#0/1
CGTCCATCATAATCACTGAGTTTGAGTTCAGTGCACATTT
+HWI-EAS443:3:71:371:1289#0/1
aa_aaaaba`^]a`¥aa`_a^a`_`aW_a__Z^a`__^_
@HWI-EAS443:3:71:405:1964#0/1
GAAAATGGACGAAGGACAAGGGTTGCTTATGAAAGAATGT
+HWI-EAS443:3:71:405:1964#0/1
Y^S`¥baabbbabaabba¥aa¥[Ibaaaba`aaba`a_X^
@HWI-EAS443:3:71:414:68#0/1
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+HWI-EAS443:3:71:414:68#0/1
abb`_``bbba_`baaa^`aa]a_a]a^_a[W_aaa]__`

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@HWI-EAS443:3:71:514:552#0/1
GTGAAAATGGACGAAGGACAAGGGTTGCTTATGAAAGAAT
+HWI-EAS443:3:71:514:552#0/1
a`b`ba_abaabaa`aaaaaa^abaaaaa`]aaa_a
@HWI-EAS443:3:71:569:74#0/1
CCTCCTGTTTTCTTAGGGTCCTCCAGCACTGGGATGCT
+HWI-EAS443:3:71:569:74#0/1
a]]``_Y[`^b`a_a_[DRa``_Y_YVU``V_[V¥[U_V[
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CTTCCGACAGATGCTCTGATTTCTGTGGCATCCTGGCGCT
+HWI-EAS443:3:71:586:221#0/1
aaaaa`baa`]aaaaa_a`_X``^_[^`Za¥^T^[VV
@HWI-EAS443:3:71:604:43#0/1
GAGGATGGTGCTTTCTGCTTTTGATGAGAGAAGAAATAAA
+HWI-EAS443:3:71:604:43#0/1
a¥aa`RX_RZU[Y`__a¥`a_]`[[Z_a]``^a`[[`^_T
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CATGACTTTGAAAGGGAAGGGTACTCACTGGTCGGGATAG
+HWI-EAS443:3:71:611:494#0/1
abbb_`bbbaa¥aaba_``Za`aaaaaa_baaaa_aa
@HWI-EAS443:3:71:685:1374#0/1
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@HWI-EAS443:3:71:686:1711#0/1
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+HWI-EAS443:3:71:686:1711#0/1
a`b_aaa_VRa]]`[aaXZ_Xaa_`¥___[^N¥^^aU]U_
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+HWI-EAS443:3:71:719:439#0/1
ab_Ya[`¥W^^^a]^^W[X]TQV`ZY`a¥PU¥^ZUYY_`
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+HWI-EAS443:3:71:742:491#0/1
Q_[`¥¥VYW_¥UWRZ_`^`Z¥a¥_a`X`¥_U¥^[QY[[¥_
@HWI-EAS443:3:71:745:531#0/1
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+HWI-EAS443:3:71:745:531#0/1
abb`a^^^_baaab_ababaabaaaaa`aa]^`aa``a
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+HWI-EAS443:3:71:80:839#0/1
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GTTCAACACTTCCCAGAAGGTCTGGTGCCGAGGTGCTGC
+HWI-EAS443:3:71:825:1186#0/1
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GGCAGCTGTTTGAAATTTTCCTTTGAGGATATTGCACATT
+HWI-EAS443:3:71:84:1462#0/1
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@HWI-EAS443:3:71:869:468#0/1
CCTGCTGTTGCATCTTCGCCATTGTTTGCTTGGCGCCAAA
+HWI-EAS443:3:71:869:468#0/1
aa`bb_]_a]`R`_ba`]I_T¥^^`]_aaTGX`[_R]Q
@HWI-EAS443:3:71:924:1128#0/1
GACCCATTCAAATTACTIONCAGCCAAAGTGGTCAGCC
+HWI-EAS443:3:71:924:1128#0/1
UR_b_S^¥`WQ^_Z`baa]_¥`b`V][`bbaW_V_aaYD[
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+HWI-EAS443:3:72:1026:445#0/1
aa^aaaaaaaaUa`HZ_a__aa_WEVa_]`a`_a____V
@HWI-EAS443:3:72:1126:771#0/1
ATTTGAATGGGTCTATCCCGACCAGTGAGTACCCTTCCCT
+HWI-EAS443:3:72:1126:771#0/1
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@HWI-EAS443:3:72:1239:1089#0/1
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+HWI-EAS443:3:72:1239:1089#0/1
aba`abbaaaaaab`aa`a`a`aa`W¥^`_¥[]`¥_a`]
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+HWI-EAS443:3:72:1323:1034#0/1
a_ab_TZaXYb¥Z`VPPXN`a_a_YL_]Y¥_OYW^XNUWJ
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CAGCCAAGTGGTCAGCCTGATGAGACCAAATGAAAACCA
+HWI-EAS443:3:72:1347:1702#0/1
`````U`¥R¥\_H^`\_\_bbb]\_S¥aa^^XN`aaaaaZT¥¥  
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GAGGATGGTCTTTCTGCTTTTGATGAGAGAAGAAATAAA  
+HWI-EAS443:3:72:1349:825#0/1  
`^aaa`^YUaaaaa`aaa`aaba`\_a\_\_\_\_Zaa\_a`\_`\_\_`  
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GAATGATTGGTGAATCGGGAGATTCTACATCCAAATGTG  
+HWI-EAS443:3:72:1357:721#0/1  
aabbababaaa\_aaaaaab\_a`aaaa\_aa`\_a`\_`\_`\_`a]a  
@HWI-EAS443:3:72:1376:1677#0/1  
ACACTTCCCAGAAGGTCTGGTGCCGAGGTGCTGCGGTGA  
+HWI-EAS443:3:72:1376:1677#0/1  
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@HWI-EAS443:3:72:1441:1601#0/1  
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+HWI-EAS443:3:72:1441:1601#0/1  
a^¥`\_`R^]TOZ\_\_OGWXY\_R`][Y^][OF[ZRW\_[KFTQ  
@HWI-EAS443:3:72:1445:427#0/1  
GGGTCCTCCTGTTTTCTTAGGGTCCTCCAGCACTGGGA  
+HWI-EAS443:3:72:1445:427#0/1  
aaa[U^a`bb\_aba\_ab\_]a\_¥`\_`\_`]\_`\_\_^\_`^`^`  
@HWI-EAS443:3:72:1452:1651#0/1  
AAATGGACGAAGGACAAGGGTTGCTTATGAAAGAATGTGC  
+HWI-EAS443:3:72:1452:1651#0/1  
a`abba`]ab`baa^\_`a][Sa`^aaOUM^a`a^aa`\_`\_`  
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+HWI-EAS443:3:72:1522:1497#0/1  
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@HWI-EAS443:3:72:1529:219#0/1  
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+HWI-EAS443:3:72:1529:219#0/1  
\_`\_`S\_T\_`^ab`][^abU`[LH¥a`YU¥S[YH[\_RTDG^  
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+HWI-EAS443:3:72:1547:1406#0/1  
\_AY][aa`L`\_`\_abSbba\_\_baa`aba^XS]aa`^`^`aa`  
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+HWI-EAS443:3:72:1550:1631#0/1  
ZT^baa¥]F]bb`^R\_¥¥^aZ`ba^X`NYZ`W\_Xa]`aUT  
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ATCCCAGCAGTGAGTACCCTTCCCTTTCAAAGTCATGCC  
+HWI-EAS443:3:72:1589:338#0/1  
a^]\_Yaa^]`a^a^V`STY`]ZVV¥`\_Y`\_aaU][\_\_VR  
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GTAATTTGAATGGGTCTATCCCGACCAGTGAGTACCCTTC  
+HWI-EAS443:3:72:1630:1979#0/1  
VbaM`b\_b\_baa^¥[`aa[aT]a`aaUP[FYba\_UQa\_\_a  
@HWI-EAS443:3:72:1694:1807#0/1  
CCTGGGTTTCGACTTTCTTACTTGATCCATCATTGCCC  
+HWI-EAS443:3:72:1694:1807#0/1  
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CTTCTCTCATCAAAGCAGAAAGCACCATCCTCTCTATTG  
+HWI-EAS443:3:72:16:843#0/1  
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AAAGCACCATCCTCTCTATTGTTATGCTATTCTGGATTAG  
+HWI-EAS443:3:72:229:429#0/1  
Q¥YU^XUa^a^ZTW`[[aW¥\_UMT^VV[]XITTW[QI[¥`  
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+HWI-EAS443:3:72:320:1568#0/1  
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+HWI-EAS443:3:72:332:993#0/1  
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TGCGGCACCAGACCTTCTGGGAAGTGTGAACCTTGCATT  
+HWI-EAS443:3:72:380:1249#0/1  
abaabbab`S^baaaaaaaaaab`a`¥a`aaaa\_aaaa\_aa`  
@HWI-EAS443:3:72:457:1761#0/1  
ACTTCCCAGAAGGTCTGGTGCCGCAGGTGCTGCGGTGAAA  
+HWI-EAS443:3:72:457:1761#0/1  
aa\_¥a^`a\_\_`\_¥Sa`YVSV\_^S^UUMPT¥UX\_BBBBBBB  
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+HWI-EAS443:3:72:53:465#0/1  
aaQaaaX\_a\_a]```\_a``¥\_T[`]X^^[X^VUWR[\_\_\_\_  
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GCGCCAAGCAAACAATGGCGAAGATGCAACAGCAGGTCTT  
+HWI-EAS443:3:72:56:1800#0/1  
abbbbaa``¥^bb¥YXaaaa¥]\_[\_`Y``\_\_b\_¥aV`^ [  
@HWI-EAS443:3:72:57:729#0/1  
CTCTCTATTGTTATGCTATTCTGGATTAGTCGTCCATCAT  
+HWI-EAS443:3:72:57:729#0/1  
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@HWI-EAS443:3:72:711:465#0/1  
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+HWI-EAS443:3:72:711:465#0/1  
abab`aaaaa\_``]^a\_[^\_a^\_\_\_\_Ya\_Za^^`\_]\_¥\_X  
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GGTGCTTTCTGCTTTTGATGAGAGAAGAAATAAATACCTA  
+HWI-EAS443:3:72:890:534#0/1  
aa^a]^`aaa¥[a\_aa`Zaa[¥G^V]a^^¥`][\_\_\_\_]``\_  
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+HWI-EAS443:3:72:891:964#0/1  
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GATCAGTTGCACATAAATCCTGCCTGCCTGCTTGTGTGTA  
+HWI-EAS443:3:72:916:1593#0/1  
`^`b¥[QY\_^a]aaaa`\_\_[\_a`Z^`X^a`\_\_dW\_^`Y^  
@HWI-EAS443:3:72:946:359#0/1  
CCCTTGTCCTTCGTCCATTTTCACCCCTCCAGAAATTCG  
+HWI-EAS443:3:72:946:359#0/1  
`bb``a]YQY\_[\_YWSZ\_ba``\_\_TUXaaUU¥^Z]aa]¥\_  
@HWI-EAS443:3:72:949:1099#0/1  
AAAATGGACGAAGGACAAGGGTTGCTTATGAAAGAATGTG  
+HWI-EAS443:3:72:949:1099#0/1  
Y]\_`aa\_^aaX\_\_`^abaaa^[`a``aaaaab\_¥`]\_^Y`

@HWI-EAS443:3:73:1027:1581#0/1  
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+HWI-EAS443:3:73:1027:1581#0/1  
aa]]`]Z\_aa\_]aaaaa]]a^a``Z`\_`^^a\_^^\_``  
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GCTGGGTTTTCATTTGGTCTCATCAGGCTGACCACTTGGC  
+HWI-EAS443:3:73:1085:785#0/1  
a^\_0\_^)`¥XZ`baa]^N\_\_aUTZaWOY^`Z^a\_[PY^N]  
@HWI-EAS443:3:73:1100:1104#0/1  
ATTGCCCTCTGGGCAGCTGTTTGAATTTTCCTTTGAGGA  
+HWI-EAS443:3:73:1100:1104#0/1  
a`b`WX]S[]a\_Y0^\_Y)`¥\_Y^HPZX`¥XNOYa`T]a[¥  
@HWI-EAS443:3:73:1148:1498#0/1  
CATCATAATCACTGAGTTTGAGTTCAGTGCACATTTGGAT  
+HWI-EAS443:3:73:1148:1498#0/1  
aabaaUW\_WWYaa^]a]a]]]\_b]¥ZMX]a^aa`\_aPaa  
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+HWI-EAS443:3:73:1212:751#0/1  
aaaaaaabaaaa`a\_¥`\_^aa[`a^]aaaa^]W]a\_a[Z]  
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+HWI-EAS443:3:73:1217:1386#0/1  
[``X`aaba\_Z¥`]SQ\_`a``aa\_^a\_aZZWa\_`a\_Q]`  
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GTCGTCCATCATAATCACTGAGTTTGAGTTCAGTGCACAT  
+HWI-EAS443:3:73:1321:184#0/1  
a\_`a\_`\_a`]`\_`a`Z]W]`VaZ`a][\_\_`Y^\_] [X[Y]\_  
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+HWI-EAS443:3:73:1360:1579#0/1  
aaaaaaaaa\_`a^`\_`aa`\_\_a]^`]¥a^\_\_^^]]\_\_]^  
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GTCCATCATAATCACTGAGTTTGAGTTCAGTGCACATTTG  
+HWI-EAS443:3:73:152:687#0/1  
aaabaa`Z\_aaab`aa`[a\_a\_a``\_\_\_^^]\_aa^`\_`^`\_  
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TAACAATAGAGAGGATGGTGCTTTCTGCTTTTGATGAGAG  
+HWI-EAS443:3:73:1615:408#0/1  
]`\_\_]a¥]¥¥YLaaa`a\_N]LPa`\_]¥FUa`a`GS]H`G]  
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AGCATCCCAGTGCTGGGAAGGACCCTAAGAAAACAGGAGG  
+HWI-EAS443:3:73:1749:657#0/1  
`]\_\_\_\_\_]\_¥KJTW`aSKM`HUMMUVRTa^Z¥^BBBBBBB  
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+HWI-EAS443:3:73:1790:1099#0/1  
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+HWI-EAS443:3:73:228:758#0/1  
aZ]Z^`aaaaa]Z`\_`\_`\_`a^X\_a`\_\_[\_a]X\_\_\_\_[¥\_W  
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GGGTGAAAATGGACGAAGGACAAGGGTTGCTTATGAAAGA  
+HWI-EAS443:3:73:22:1009#0/1  
abaXa^W]aaaaXaaaaa\_``a`\_^`a\_`\_\_`a\_`\_`^  
@HWI-EAS443:3:73:272:394#0/1  
CCTCTCTATTGTTATGCTATTCTGGATTAGTCGCCATCA  
+HWI-EAS443:3:73:272:394#0/1  
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@HWI-EAS443:3:73:324:1264#0/1  
TGGAATCGGGAGATTCTACATCCAAATGTGCACTGAACTC  
+HWI-EAS443:3:73:324:1264#0/1  
a^^a¥abababbbaaaabb]aaaa`a`a\_aa`a`\_\_a\_\_a  
@HWI-EAS443:3:73:336:1058#0/1  
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+HWI-EAS443:3:73:336:1058#0/1  
`¥\_U^a\_\_\_Y\_V[a^`Z`\_Z¥a\_a¥][`\_^`¥QV]^]S  
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+HWI-EAS443:3:73:346:581#0/1  
]X]baa`[a\_]\_a`\_`aaaaRV]aa¥`^[RO`]S\_\_Y\_^  
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+HWI-EAS443:3:73:444:1416#0/1  
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GGCTTGCAGTAGCAAGTGGGCATGACTTTGAAAGGGAAGG  
+HWI-EAS443:3:73:546:671#0/1  
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GAGAGGATGGTGCTTTCTGCTTTTGATGAGAGAAGAAATA  
+HWI-EAS443:3:73:644:924#0/1  
a\_[S^\_[UZ[¥`Z`ZWIP[aa]RN]Z¥`]^Y^\_XT¥M\_  
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CCTCTGGGCAGCTGTTTGAATTTTCCTTTGAGGATATTG  
+HWI-EAS443:3:73:660:417#0/1  
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`\_a¥a\_`b`b]`a\_¥VWba^Saabaa`aaaaZa`b\_aa  
@HWI-EAS443:3:73:73:708#0/1  
GGTCCTCCTGTTTTCTTAGGGTCCTTCCCAGCACTGGGAT  
+HWI-EAS443:3:73:73:708#0/1  
ab`bbaabbaabbaabaaaa`¥aaaaaaaaab\_a`a`aRa  
@HWI-EAS443:3:73:743:2041#0/1  
CAAAAGCAGAAAGCACCATCCTCTCTATTGTTATGCTATT  
+HWI-EAS443:3:73:743:2041#0/1  
\_]\_Z\_a`YY]``Z^`^a\_`a^ZY]^`\_^\_XUZZZZX^¥R

@HWI-EAS443:3:73:790:580#0/1  
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+HWI-EAS443:3:73:790:580#0/1  
abaabbabbaab`aaaa\_aab`\_a\_H^`a[aaa`[HYRV  
@HWI-EAS443:3:73:791:1027#0/1  
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+HWI-EAS443:3:73:791:1027#0/1  
\_aZRa`baba`aa^`bba^`b¥`bb\_\_a`^abbbbbbbbab  
@HWI-EAS443:3:74:1043:859#0/1  
GGGTTGCTTATGAAAGAATGTGCAATATCCTCAAAGGAAA  
+HWI-EAS443:3:74:1043:859#0/1  
^T]I^abaVaba\_I`PPY`^¥¥¥`aa¥^Qaa\_baabYaaa  
@HWI-EAS443:3:74:1075:174#0/1  
CTCCTGTTTTCTTAGGGTCCTTCCCAGCACTGGGATGCTC  
+HWI-EAS443:3:74:1075:174#0/1  
abbbbbbbbbbbbbbbbabbbbaabbabbbbbbb`bb`a\_  
@HWI-EAS443:3:74:1133:696#0/1  
GTTTGAATTTTCTTTGAGGATATTGCACATTCTTTCAT  
+HWI-EAS443:3:74:1133:696#0/1  
aaaaaaaaaaaa`aa`aa```\_\_^]¥`\_`\_¥\_a^X¥^  
@HWI-EAS443:3:74:1190:638#0/1  
GCTGTTTTGGAGTAATTTGAATGGGTCTATCCCGACCAGT  
+HWI-EAS443:3:74:1190:638#0/1  
U``¥U\_ba`Xababba```¥^baa[b[b\_PUT\_ba]]aY  
@HWI-EAS443:3:74:1230:1000#0/1  
GGTCCTCCTGTTTTCTTAGGGTCCTTCCCAGCACTGGGAT  
+HWI-EAS443:3:74:1230:1000#0/1  
`bbbbbbbababab`bb`bbba`abbb[`ba\_bbaba`aa  
@HWI-EAS443:3:74:1335:2005#0/1  
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+HWI-EAS443:3:74:1335:2005#0/1  
^b\_aUa^W¥T^]bYZbb]`\_`XXONWEYaVLWXJNYHYS`  
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+HWI-EAS443:3:74:1343:548#0/1  
aabYbaaaaZZ`b`abaa]a`aaa````^`\_`a\_aa\_X]\_  
@HWI-EAS443:3:74:1351:699#0/1  
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+HWI-EAS443:3:74:1351:699#0/1  
aa\_aaaa\_a\_]Z^a\_a`^`aa`^a]a\_a````aPXY\_R\_G  
@HWI-EAS443:3:74:1391:344#0/1  
CTGTGGAAGAATGATTGGTGAATCGGGAGATTCTACAT  
+HWI-EAS443:3:74:1391:344#0/1  
`XV^`\_`^¥a¥\_\_[W]\_^MZ]U\_NM]U¥YWU^]S\_^OVR  
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GGTGCTTTCTGCTTTTGATGAGAGAAGAAATAAATACCTA  
+HWI-EAS443:3:74:1401:828#0/1  
^aJb`bbb^bb¥abbaUaa¥aK```]aa[[``[aa`RK[a  
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+HWI-EAS443:3:74:1467:1967#0/1  
aa^`¥a\_a]KW\_\_`[\`TZ\_`a`\_Z\_YV]]^\_V``UY¥KKT  
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+HWI-EAS443:3:74:1563:313#0/1  
T\_b\_bbbabb\_bbbbbbbbab`bbba`abaabbba[\_bb  
@HWI-EAS443:3:74:1590:531#0/1  
GTGGTCAGCCTGATGAGACCAAATGAAAACCCAGCTCACA  
+HWI-EAS443:3:74:1590:531#0/1  
]¥\_¥Za\_Z]\_\_aUaa\_a`\_a`aaa\_a\_\_]\_W]^T\_U\_Y^  
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GCTGTTTTGGAGTAATTTGAATGGGTCTATCCCGACCAGT  
+HWI-EAS443:3:74:21:845#0/1  
````¥abbaaa\_^\_ZabaaZaaa]a^aaa``aa^aaa`XY  
@HWI-EAS443:3:74:349:1783#0/1
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+HWI-EAS443:3:74:349:1783#0/1
ab_UZ_b_``Y`^V¥aa`^[W^]P]aa^_]XNZPRXNTPP
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AGGGTTGCTTATGAAAGAATGTGCAATATCCTCAAAGGAA
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+HWI-EAS443:3:74:481:789#0/1
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+HWI-EAS443:3:74:549:426#0/1
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+HWI-EAS443:3:74:575:1776#0/1
^^S_¥abab]ZV¥a`¥`^S^__ZZ^]_``Y`¥¥^U¥XZZ
@HWI-EAS443:3:74:647:1143#0/1
AGCCAAGTGGTCAGCCTGATGAGACCAAATGAAAACCCAG
+HWI-EAS443:3:74:647:1143#0/1
a`aaa`[a`X``_[[___^`_^Y^a___^`````_^_^
@HWI-EAS443:3:74:690:708#0/1
CTGCGGACCCAGACCTTCTGGGAAGTGTGAACCTTGCAT
+HWI-EAS443:3:74:690:708#0/1
aba`V]^ba_U]^a_aa`aaa`^`a¥]_a`¥``____¥¥^
@HWI-EAS443:3:74:764:1640#0/1
GAATGATTGGTGAATCGGGAGATTCTACATCCAAATGTG
+HWI-EAS443:3:74:764:1640#0/1
`_S_`^a_bbW`_a`^`a`Waa]MY_[_WUZabaa`¥WZ]
@HWI-EAS443:3:74:924:131#0/1
GAAAGCACCATCCTCTCTATTGTTATGCTATTCTGGATTA
+HWI-EAS443:3:74:924:131#0/1
aaaaaaaa`aa^^`^a_a``a__`_^__a_a^]____]_^

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+HWI-EAS443:3:74:976:632#0/1
_`aaabbbay``_aab`a[b`aaaYaa¥`]R`[]Y[BBB
@HWI-EAS443:3:75:1037:515#0/1
AGCTGTTTAAAATTTTCTTTGAGGATATTGCACATTCTT
+HWI-EAS443:3:75:1037:515#0/1
^¥a__S¥]aa__[bb`W_¥baWU_`^`VR[HY[_PGZ^T¥Z
@HWI-EAS443:3:75:1067:846#0/1
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+HWI-EAS443:3:75:1067:846#0/1
a`abbbbbbbaabbbb`bbabbbabab`aaab
@HWI-EAS443:3:75:1068:1492#0/1
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+HWI-EAS443:3:75:1068:1492#0/1
aa]abaa`XaTaa¥L_]LYa`]]`ZZaa_UFY]]_R[M]
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+HWI-EAS443:3:75:1123:246#0/1
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@HWI-EAS443:3:75:1175:669#0/1
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+HWI-EAS443:3:75:1175:669#0/1
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@HWI-EAS443:3:75:1182:1285#0/1
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+HWI-EAS443:3:75:1182:1285#0/1
`aa¥_`¥b]b¥bab[_ab`¥¥abaY_ab`Y]^Raa`ZL]_
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GGAGGGGTGAAAATGGACGAAGGACAAGGGTTGCTTATGA
+HWI-EAS443:3:75:1190:1130#0/1
ababb]`]a_aabaa^bbbabaa_aaaaa[ba``aaab`
@HWI-EAS443:3:75:1273:805#0/1
AGAAGGTCTGGTGCCGAGGTGCTGCGGTGAAAGGAGTTG
+HWI-EAS443:3:75:1273:805#0/1
^¥____]L^ba]____]Za]aaTW¥a]_]XS_UR^]]¥F`_
@HWI-EAS443:3:75:1335:506#0/1
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+HWI-EAS443:3:75:1335:506#0/1
a`¥_Wa_aa``]baaR^^T]aa_IS¥```a`aa[[a^_Y_
@HWI-EAS443:3:75:1496:724#0/1
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+HWI-EAS443:3:75:1496:724#0/1
ab]a]U_`¥Ubaa`SaPNUN[]TSJ[]Y``VaaVY_a[]a
@HWI-EAS443:3:75:1510:1309#0/1
GAAATAAATACCTAGAAGAGCATCCCAGTGCTGGGAAGGA
+HWI-EAS443:3:75:1510:1309#0/1
W[`YUYa`^_SH[QV_bUSVa¥_b`Lab]¥HW_Z_aaba`
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GACCTGCTGTTGCATCTTCGCCATTGTTTCTTGCTTGCGCCA

+HWI-EAS443:3:75:156:565#0/1
aabaabb_a][Y^`_]Y^YV¥_aWOV_`¥]ZXOQ]Z`WG
@HWI-EAS443:3:75:1606:1360#0/1
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+HWI-EAS443:3:75:1606:1360#0/1
`aabbaba`b_^aab[a]Y__aaaXa`a`_aaaa_aa^
@HWI-EAS443:3:75:1624:1074#0/1
GACCCATTCAAATTACTCCAAAACAGCCAAGTGGTCAGCC
+HWI-EAS443:3:75:1624:1074#0/1
aba`]```aaa_a`aaaa`a[aa]VZaaa`[]PXa^a0`
@HWI-EAS443:3:75:1662:1536#0/1
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+HWI-EAS443:3:75:1662:1536#0/1
¥ZW_bbU¥a_Z¥Y_a_Sb^_N`_a^TP^XPTT`Xb]P`b
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+HWI-EAS443:3:75:1713:1403#0/1
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@HWI-EAS443:3:75:215:1020#0/1
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+HWI-EAS443:3:75:215:1020#0/1
ab`a`aaaaba][_aa]`_```_a`V¥[^`__a_WUW[^¥
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+HWI-EAS443:3:75:215:1982#0/1
a`Tbb^bb`b_aaaa[X_TSZa`U¥aaaXQ``¥Z¥PR[V
@HWI-EAS443:3:75:22:716#0/1
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+HWI-EAS443:3:75:22:716#0/1
^aSSWbYW¥PKZaaa_]_a_X_QZ]P]Xa_Y_``]`^_¥__
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+HWI-EAS443:3:75:234:1910#0/1
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@HWI-EAS443:3:75:261:76#0/1
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+HWI-EAS443:3:75:261:76#0/1
a¥``QZbb]baa`a_bba_]T_Ya][`[¥[`^V`aZGL^a
@HWI-EAS443:3:75:291:319#0/1
CACTTGGCTGTTTTGGAGTAATTTGAATGGTCTATCCCG
+HWI-EAS443:3:75:291:319#0/1
Sabb```bb[V_b¥0__aZX^`a_aa`[_LZ___YZa[
@HWI-EAS443:3:75:302:1758#0/1
GATGCAACAGCAGGTCTTACTCATATCATGATTTGGCATT
+HWI-EAS443:3:75:302:1758#0/1
a`abbbabaabba¥^aaaaaY_a`a`aa¥]X_``^Za^a¥
@HWI-EAS443:3:75:316:1670#0/1
CTCCATTGCTATTGTTCCAACCTTTCCACCGCAGCACCT
+HWI-EAS443:3:75:316:1670#0/1
a``X_``a]Taa````^bb^babb]]abbab]aaXba^X`

+HWI-EAS443:3:76:1152:1272#0/1
a]^a^aaaa__a__a`aa]aa`_a`_a_a_aaaa`aZ__
@HWI-EAS443:3:76:115:385#0/1
CGTCCATCATAATCACTGAGTTTGAGTTCAGTGCACATTT
+HWI-EAS443:3:76:115:385#0/1
`a^babaaa`aaaaaaW_^_aa`_]`_`_]__`^_^]_
@HWI-EAS443:3:76:1349:261#0/1
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+HWI-EAS443:3:76:1349:261#0/1
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@HWI-EAS443:3:76:1356:95#0/1
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+HWI-EAS443:3:76:1356:95#0/1
a_bb`^aabab_a^_a___¥```[^`_YZaZ¥X^`^XV_
@HWI-EAS443:3:76:140:58#0/1
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+HWI-EAS443:3:76:140:58#0/1
a`aa[ba`aa`baaa_____¥`_a`_¥a¥`_`_¥_YYW¥
@HWI-EAS443:3:76:1416:423#0/1
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+HWI-EAS443:3:76:1416:423#0/1
a^baY¥aa_aa`^_]Z^SV]``S`_[_HU¥¥SYWWZUUU
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+HWI-EAS443:3:76:1466:1773#0/1
ab``a^abaaaa_aaaa_aaa`_`^_`_]a_]^[[^]`_
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+HWI-EAS443:3:76:1524:2040#0/1
a_QXabab`b`b^[YUaaa][RT`¥[^_HO_aa`^^_[S[
@HWI-EAS443:3:76:1540:687#0/1
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+HWI-EAS443:3:76:1540:687#0/1
Y_``¥^abbaa`^VYZ¥Z`VY_0]^XY^^^^[VTV`GY¥a
@HWI-EAS443:3:76:1580:901#0/1
GCACCATCCTCTCTATTGTTATGCTATTCTGGATTAGTCG
+HWI-EAS443:3:76:1580:901#0/1
a¥][X]]YU_Z[Z]X]¥[T`__ZS¥]^¥[X^WW]Y]]WY]
@HWI-EAS443:3:76:1585:1931#0/1
GGCATGACTTTGAAAGGGAAGGGTACTCACTGGTCGGGAT
+HWI-EAS443:3:76:1585:1931#0/1
aa_____a]^`aZX_a__`^`_XOTR_¥RVR^RMW___U]
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GCACATTCTTTTCATAAGCAACCCTTGTCCTTCGTCCATTT
+HWI-EAS443:3:76:1662:285#0/1
a[``]^Za¥`S¥__X_]X_XZUaYQSWT_ZVVWSVV]]]
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GTCCTCCTGTTTTCTTAGGGTCTTCCCAGCACTGGGATG
+HWI-EAS443:3:76:176:498#0/1
aR_`¥aX_^G^]XS]_U_VXY]_YVWY]Y^OYXY[GUVV^

+HWI-EAS443:3:76:698:919#0/1
a`a_a_a`T^`^____^`Y^`^^_W__XZ_]_[Z]PU
@HWI-EAS443:3:76:808:528#0/1
GTCGGAAGAATGATTGGTGAATCGGGAGATTCTACATCC
+HWI-EAS443:3:76:808:528#0/1
a]Y¥ZT[^^____]]YZT]Z[¥XX¥]YX]Y]YX]^ZZZV]
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+HWI-EAS443:3:76:839:1459#0/1
ab[[[aYSS__VWUWLV[SW`¥VYPP¥[Z]YXVRYUVP^M
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+HWI-EAS443:3:76:946:1888#0/1
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@HWI-EAS443:3:76:972:448#0/1
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+HWI-EAS443:3:76:972:448#0/1
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@HWI-EAS443:3:77:1030:414#0/1
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+HWI-EAS443:3:77:1030:414#0/1
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@HWI-EAS443:3:77:1141:1619#0/1
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+HWI-EAS443:3:77:1141:1619#0/1
a[___`b__I_b_ababbbb]`bbbb^_b]bbbaa`bb`_a
@HWI-EAS443:3:77:1158:1420#0/1
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+HWI-EAS443:3:77:1158:1420#0/1
abbabbba`aa_baa[aa__baaba`ab``_b^_aZ_aa_
@HWI-EAS443:3:77:1168:1632#0/1
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+HWI-EAS443:3:77:1168:1632#0/1
aaa`aaa^¥]]^¥a`¥aa`_^¥^^aVW^YQT]WPZ^]
@HWI-EAS443:3:77:1169:693#0/1
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+HWI-EAS443:3:77:1169:693#0/1
____[a^bba^`¥V^b¥baabb`ab]bbaY`Y`abba[]a
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+HWI-EAS443:3:77:1189:262#0/1
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@HWI-EAS443:3:77:1255:679#0/1
AGAAGGTCTGGTGCCGCAGGTGCTGCGGTGAAAGGAGTTG
+HWI-EAS443:3:77:1255:679#0/1
ORQ]^_H`_^_Zba`_`aXVIW`_^[_^Za[[aa]^EX`
@HWI-EAS443:3:77:1340:1061#0/1
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+HWI-EAS443:3:77:1340:1061#0/1
abaaa^b_aa_a`aaa`aab`a_a_aa`a_YXL[_`_TZ

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+HWI-EAS443:3:77:148:1797#0/1
a_[]]a[^Z[H^`_]W`Y^_^__YXWTV[^_`¥X^VYY^
@HWI-EAS443:3:77:1499:733#0/1
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+HWI-EAS443:3:77:1499:733#0/1
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@HWI-EAS443:3:77:1652:95#0/1
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+HWI-EAS443:3:77:1652:95#0/1
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@HWI-EAS443:3:77:1655:702#0/1
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+HWI-EAS443:3:77:1655:702#0/1
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+HWI-EAS443:3:77:1670:1800#0/1
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+HWI-EAS443:3:77:197:1851#0/1
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@HWI-EAS443:3:77:24:144#0/1
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+HWI-EAS443:3:77:24:144#0/1
]aba¥¥¥`Z_¥W^`^`]¥NXXY[W]T[[RXRTRTWS
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+HWI-EAS443:3:77:257:1808#0/1
abVa_aaaabaababaaa^ZWa`]aaaaaaaa`__a__¥a
@HWI-EAS443:3:77:397:1923#0/1
GTGCTGACCGTGCCAGGAAAATGAGGTCTTCAATCTCAGC
+HWI-EAS443:3:77:397:1923#0/1
`P]ba`¥¥]PD^`ZXX_a``^¥0^TZEXWOZ¥OPU[a_XT
@HWI-EAS443:3:77:405:1099#0/1
AGGCAGGCAGGATTTATGTGCAACTGATCCCCTCAGAATG
+HWI-EAS443:3:77:405:1099#0/1
T_aaW__abbXR]`__WYaR_^RWYY`^baa`Q`Y`¥]`¥
@HWI-EAS443:3:77:411:490#0/1
GCATGACTTTGAAAGGAAGGGTACTCACTGGTCGGGATA
+HWI-EAS443:3:77:411:490#0/1
aaa_]¥a`[]aX`a``aQ[a`_X_]Z_`]]]Q^Z^^^]
@HWI-EAS443:3:77:46:177#0/1
ATCAGTTGCACATAAATCCTGCCTGCCTGCTTGTGTGTAT
+HWI-EAS443:3:77:46:177#0/1
K`WMYU`¥S¥b]Z¥]_abb_^TXaaaaVb`S^X^_QaZVZ
@HWI-EAS443:3:77:484:883#0/1
GCATCCCAGTGCTGGGAAGGACCCTAAGAAAACAGGAGGA

+HWI-EAS443:3:77:484:883#0/1
aa]^\`aa`b_aa^aaaSZ]]^\`]aa[^_X_YP]`a_]`__
@HWI-EAS443:3:77:598:700#0/1
CTGTTTTCTTAGGGTCCTTCCCAGCACTGGGATGCTCTTC
+HWI-EAS443:3:77:598:700#0/1
XaaTa`aZaS_[`T`b`b`b`b`a`bZb`^`Y`b_babbbb
@HWI-EAS443:3:77:631:749#0/1
CTGCTGTTGCATCTTCGCCATTGTTTGCTTGGCGCCAAAC
+HWI-EAS443:3:77:631:749#0/1
abbbaa`a]aaaaaaaa`aaa`a`aaa_a___Za`_^ZR
@HWI-EAS443:3:77:632:1941#0/1
ATCCTCTCTATTGTTATGCTATTCTGGATTAGTCGCCAT
+HWI-EAS443:3:77:632:1941#0/1
aaaaaaaa`aa_`^`a`_`aaaa`a^^`a`_`a[^`]X`^a_
@HWI-EAS443:3:77:635:953#0/1
ATCTGTGCGAAGAATGATTGGTGAATCGGGAGATTCTAC
+HWI-EAS443:3:77:635:953#0/1
``¥a^]^^`a^^`^a`S`_a`W][a_[]_]UX`a_¥¥Wa`
@HWI-EAS443:3:77:686:796#0/1
CACTTGGCTGTTTTGGAGTAATTTGAATGGGTCTATCCCG
+HWI-EAS443:3:77:686:796#0/1
ababb`aaaIab]QU_^ZZ¥_`_]aSO¥]Q]^a[Q[_S
@HWI-EAS443:3:77:692:533#0/1
GGCATGACTTTGAAAGGGAAGGGTACTCACTGGTCGGGAT
+HWI-EAS443:3:77:692:533#0/1
_b`aa`baa]`¥aaaZP^aa]`_a_aa^`^]__`a_¥
@HWI-EAS443:3:77:753:1963#0/1
TGGGTCCTCCTGTTTTCTTAGGGTCCTTCCCAGCACTGGG
+HWI-EAS443:3:77:753:1963#0/1
XO__S`^ab][]bbbbbbbaab`_a`aa`[_a]bbSa_^a
@HWI-EAS443:3:77:766:173#0/1
GTCCTCCTGTTTTCTTAGGGTCCTTCCCAGCACTGGGATG
+HWI-EAS443:3:77:766:173#0/1
aZa`_`aa`^a`^YTDV_]X`]_]VZ]ZYXX^^]XU]
@HWI-EAS443:3:77:774:963#0/1
TGGGTTTTCGACTTTCTTACTTGATCCATCATTGCCCTC
+HWI-EAS443:3:77:774:963#0/1
a`_]Y`__b^aaaaa`_]a_a`a_Z`aa`____]_a^[^¥
@HWI-EAS443:3:77:819:1386#0/1
CAATGGCGAAGATGCAACAGCAGGTCTTACTCATATCATG
+HWI-EAS443:3:77:819:1386#0/1
abbaabbaabaaaaabbaa`baaaX`aaa`_]_aa`aa`aa
@HWI-EAS443:3:77:853:54#0/1
CGCTGAGATTGAAGACCTCATTTTCCTGGCACGGTCAGCA
+HWI-EAS443:3:77:853:54#0/1
[bbba]b[b[bb__`b[aJab_aaaa`_a¥]]`ZZTZbVZ
@HWI-EAS443:3:77:95:354#0/1
TGTCGGAAGAATGATTGGTGAATCGGGAGATTCTACATC
+HWI-EAS443:3:77:95:354#0/1
abaa¥WL_`^TZ_`^`aaa]]`aa`_]__`^]_^^^]`_]_

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+HWI-EAS443:3:78:1023:347#0/1
a]__aa__aa[a`aaaa`[[_]`]__^^^`a_`a_]Z____
@HWI-EAS443:3:78:1069:170#0/1
GTGGTCAGCCTGATGAGACCAAATGAAAACCCAGCTCACA
+HWI-EAS443:3:78:1069:170#0/1
[¥aaW`[a`aab]ab_a_^[_a_U^`]aGaUW]ZX[XR^
@HWI-EAS443:3:78:1069:743#0/1
ATCTTCGCCATTGTTTGCTTGGCGCCAAACTCTCCTTATT
+HWI-EAS443:3:78:1069:743#0/1
a^a_]^_]`a^aa`aa`Y]a`T^^____`]a____S_aZ`a
@HWI-EAS443:3:78:1084:1508#0/1
GCCCTCTGGGCAGCTGTTTGAAATTTTCCTTTGAGGATAT
+HWI-EAS443:3:78:1084:1508#0/1
aaaaaa_a_`_`]_a`a_a^[_`a_aS`__a_a____Z]V
@HWI-EAS443:3:78:1114:1418#0/1
TTTCAAACAGCTGCCAGAGGGCAATGATGGATCAAGTAA
+HWI-EAS443:3:78:1114:1418#0/1
`abaaaa`aa_baa^^a]^`a____aa`aa`]_]`_]^^^
@HWI-EAS443:3:78:1126:922#0/1
GATTAGTCGTCCATCATAATCACTGAGTTTGAGTTCAGTG
+HWI-EAS443:3:78:1126:922#0/1
aaa`a`]aS¥a_]_^`_a^a_^^_¥X^¥`P^_]V^_aZ^
@HWI-EAS443:3:78:1153:565#0/1
GCACATTCTTTCATAAGCAACCCTTGCCTTCGTCCTTT
+HWI-EAS443:3:78:1153:565#0/1
a`]a]ab`a`aa_aa`a[Xa`ZS]`a`YV`a`a^ZP^a__
@HWI-EAS443:3:78:116:1899#0/1
CACTTCCCAGAAGGTCTGGTGCCGCAGGTGCTGCGGTGAA
+HWI-EAS443:3:78:116:1899#0/1
abbaaaaa`]aa`¥a_`[V_a^]``_ZW]¥¥`^]G¥U]
@HWI-EAS443:3:78:1173:382#0/1
CACATTCTGGGATCCATTCCGGTGCGAACAAGCGCTCTTG
+HWI-EAS443:3:78:1173:382#0/1
X_bbY[UVb`baa^¥[ab[ba`ab_ab^^aabbabb[abY
@HWI-EAS443:3:78:1235:1861#0/1
CAACACTTCCCAGAAGGTCTGGTGCCGCAGGTGCTGCGGT
+HWI-EAS443:3:78:1235:1861#0/1
aab`__`U`¥ZWX^X_U_aU^GaZSZG]]¥S^TU^¥BBB
@HWI-EAS443:3:78:131:168#0/1
GGGGAGCGCCAGGATGCCACAGAAATCAGAGCATCTGTGCG
+HWI-EAS443:3:78:131:168#0/1
abaaaba`¥¥¥`WU^]¥_¥]^¥^^¥¥WWW¥¥¥Z¥SUXSWU
@HWI-EAS443:3:78:1435:826#0/1
GTCGGAAGAATGATTGGTGAATCGGGAGATTCTACATCC
+HWI-EAS443:3:78:1435:826#0/1
a[ab_aaaaa]]`aaaa^a`_`YYa[][_¥`^V]]U__GQ
@HWI-EAS443:3:78:1455:696#0/1
AGGATTTATGTGCAACTGATCCCCCTCAGAATGAGTGCTGA

+HWI-EAS443:3:78:1455:696#0/1
a^aa_aa`[^aWa__`a`XXUR_T[[^_aa_aUaS^_¥
@HWI-EAS443:3:78:1644:1249#0/1
CAGGCTGACCACTTGGCTGTTTTGGAGTAATTTGAATGGG
+HWI-EAS443:3:78:1644:1249#0/1
aaa_abaa^aa`^aa¥aaI^[aJ0J[MZ[a_WDT_V_YV
@HWI-EAS443:3:78:165:1556#0/1
AATTTGAATGGGTCTATCCCGACCAGTGAGTACCCTTCCC
+HWI-EAS443:3:78:165:1556#0/1
aaaaa`V_a`_`a_a`aaa_¥`_`VS`VZ```]Y`__
@HWI-EAS443:3:78:1696:1088#0/1
GAGCATCCCAGTGCTGGGAAGGACCCTAAGAAAACAGGAG
+HWI-EAS443:3:78:1696:1088#0/1
a¥Z¥abab__aaaaabbb`a]``[_a]aaaa`a_aa_aa
@HWI-EAS443:3:78:1784:560#0/1
GCTTTCTGCTTTTGATGAGAGAAGAAATAAATACCTAGAA
+HWI-EAS443:3:78:1784:560#0/1
a`^R]QX]Q¥U[SSPW`^SN[¥^¥¥[N[]¥Y[]XDV^^^
@HWI-EAS443:3:78:219:1703#0/1
TCTTCCGACAGATGCTCTGATTTCTGTGGCATCCTGGCGC
+HWI-EAS443:3:78:219:1703#0/1
abbbbbabb`aaa¥bbbbaaaaaaaX^^^abaaaa`Y`Y]
@HWI-EAS443:3:78:219:2002#0/1
AGGTCTTACTCATATCATGATTTGGCATTCCAACCTGAAT
+HWI-EAS443:3:78:219:2002#0/1
¥_^R¥_Zb`X^_`¥aaa¥YY]]][Qa_`^`¥^_`S[_X
@HWI-EAS443:3:78:232:1004#0/1
GTCCTCCTGTTTTCTTAGGGTCCTCCCAGCACTGGGATG
+HWI-EAS443:3:78:232:1004#0/1
¥NWZab`]VPaaaa¥^^aaSa_`ZX`^ZXaU]^]TQUZU
@HWI-EAS443:3:78:281:531#0/1
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+HWI-EAS443:3:78:281:531#0/1
ab_M^`a]]`aaaa`WTZa^^a```_X^a^_`^`^^[^`]
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+HWI-EAS443:3:78:422:657#0/1
Za[b_a¥_ab¥_^¥a^b_Q[KW¥_YD¥V^`^WZ[X][[¥¥
@HWI-EAS443:3:78:435:560#0/1
CCCTTGTCCTTCGTCATTTTCACCCCTCCAGAAATTCG
+HWI-EAS443:3:78:435:560#0/1
abbbbbaaabbbbaa`aaabaaaa_aa`aaa`aaaa`_a_
@HWI-EAS443:3:78:436:654#0/1
GCATGACTTTGAAAGGGAAGGGTACTCACTGGTCGGGATA
+HWI-EAS443:3:78:436:654#0/1
aaaa_Y[`]Y]^_Y_a_]J_`_V^`^`[X__V``_]Y^
@HWI-EAS443:3:78:588:1962#0/1
TGCTTTCTGCTTTTGATGAGAGAAGAAATAAATACCTAGA
+HWI-EAS443:3:78:588:1962#0/1
a`abaaaaabbbaaaa_a^Z]ab``abaabba[[_`_aaa_

@HWI-EAS443:3:78:656:807#0/1
ATCCAGAATAGCATAACAATAGAGAGGATGGTGCTTTCTG
+HWI-EAS443:3:78:656:807#0/1
a_`^a`_]aa_a````]__`_`^___^^]^[SXW]]]VZN
@HWI-EAS443:3:78:698:465#0/1
GCACATTCTTTCATAAGCAACCCTTGTCCCTTCGTCATTT
+HWI-EAS443:3:78:698:465#0/1
aabbbaaaaaa`aaa`baaaa_`a^a^aYaa````````_a`
@HWI-EAS443:3:78:718:1750#0/1
AATTACTCCAAAACAGCCAAGTGGTCAGCCTGATGAGACC
+HWI-EAS443:3:78:718:1750#0/1
a`Y¥aaaaabZb```^aa]SVR[NY_aYS¥`[_¥HRY_]U
@HWI-EAS443:3:78:750:1224#0/1
CGAAGATGCAACAGCAGGTCTTACTCATATCATGATTTGG
+HWI-EAS443:3:78:750:1224#0/1
aa`_Z]X]Z[_aZ^a]_V[ZXZ`a^Y`_[]`a`_____^^_`^
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GGGTCCTCCTGTTTTCTTAGGGTCCTTCCCAGCACTGGGA
+HWI-EAS443:3:78:774:1512#0/1
`abW`Z_`^bWa``aabVQ_SN_^_Z^_[TV]¥¥_`^VSW
@HWI-EAS443:3:78:784:1478#0/1
AGAATCTCCCGATTCCACCAATCATTCTTCCGACAGATGC
+HWI-EAS443:3:78:784:1478#0/1
]a_`aaaaaYY_aaaaUaVa_]_a`_`_`V[_`_`_`a_`^`_`_`
@HWI-EAS443:3:78:818:830#0/1
CTAATCCAGAATAGCATAACAATAGAGAGGATGGTGCTTT
+HWI-EAS443:3:78:818:830#0/1
abbb¥`¥aab¥`aab`bb``Y]b`b`b`baaaa¥FV]L]`
@HWI-EAS443:3:78:836:156#0/1
GGATAGACCCATTCAAATTACTCCAAAACAGCCAAGTGGT
+HWI-EAS443:3:78:836:156#0/1
aa`_`_a_^[S[_[V]___^^X_WWZ]]]X]^YU¥^^YWUU
@HWI-EAS443:3:78:84:1105#0/1
CTAATGCAAGGTTCAACACTTCCCAGAAGGTCTGGTGCCG
+HWI-EAS443:3:78:84:1105#0/1
aZIR[[`¥T[[JS`aaa`a¥^^`^Y[X[TPK^YYTZ[YY
@HWI-EAS443:3:78:917:427#0/1
CTAATGCAAGGTTCAACACTTCCCAGAAGGTCTGGTGCCG
+HWI-EAS443:3:78:917:427#0/1
Ubabbbabbbba]b_babbabba```abba````abb`¥ba¥a
@HWI-EAS443:3:78:971:1900#0/1
TCCTGGGTTTCGACTTCTTACTTGATCCATCATTGCC
+HWI-EAS443:3:78:971:1900#0/1
_]Ua_T]X¥`b]ZSZ`YZ]RRXZJZ^[^XP[T^¥a[W¥[R
@HWI-EAS443:3:79:1040:1415#0/1
ACCTGCTGTTGCATCTTCGCCATTGTTTGCTTGCGCCAA
+HWI-EAS443:3:79:1040:1415#0/1
aaaaa`aaZ[QHU[T[ZUFY_PVYQTa[FVVYNYUVJVS]
@HWI-EAS443:3:79:1042:857#0/1
GGACGACTAATCCAGAATAGCATAACAATAGAGAGGATGG

+HWI-EAS443:3:79:1042:857#0/1
abaabbaa`aaa^`[a]aab]a]¥]aaa_a^`^a_a`
@HWI-EAS443:3:79:1065:371#0/1
TCCAAAACAGCCAAGTGGTCAGCCTGATGAGACCAAATGA
+HWI-EAS443:3:79:1065:371#0/1
`aaa_aa`a_baaaa]^_aa_a`aaaa_a^aX`_`_^_
@HWI-EAS443:3:79:1135:475#0/1
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+HWI-EAS443:3:79:1135:475#0/1
a_a`baabbb_aaa_`^a^`_`^`W`¥__U[`XY___[
@HWI-EAS443:3:79:1147:177#0/1
GCTGTTTTGGAGTAATTTGAATGGGTCTATCCCGACCAGT
+HWI-EAS443:3:79:1147:177#0/1
aa]_V¥^aRX]ZF[RYQ¥Za]WPWVXY[YVVRWR[BBBBB
@HWI-EAS443:3:79:1156:1896#0/1
TGAACTCAAACAGTGATTATGATGGACGACTAATCCAG
+HWI-EAS443:3:79:1156:1896#0/1
ababbbbbbbabaaba`baaababaaa```a^`aa`^¥aa
@HWI-EAS443:3:79:1240:874#0/1
GATGGACGACTAATCCAGAATAGCATAACAATAGAGAGGA
+HWI-EAS443:3:79:1240:874#0/1
aaaa^`aa^aa_]a`a_aa`a^`a_]`^`¥_Z_____^
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+HWI-EAS443:3:79:1263:1099#0/1
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+HWI-EAS443:3:79:1272:1207#0/1
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@HWI-EAS443:3:79:1362:60#0/1
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+HWI-EAS443:3:79:1362:60#0/1
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@HWI-EAS443:3:79:140:1293#0/1
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+HWI-EAS443:3:79:140:1293#0/1
aaaYQZa]]_W]TZ[_a`Y)`_]T^^YQQ]ZYNQ^[^U[B
@HWI-EAS443:3:79:1425:1434#0/1
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+HWI-EAS443:3:79:1425:1434#0/1
_`b^]a`bbbbabaabaaab`¥_Sbbaaaba_a`_]b
@HWI-EAS443:3:79:1524:1545#0/1
CATGATTTGGCATTCCAACCTGAATGATGCCACATATCAG
+HWI-EAS443:3:79:1524:1545#0/1
V]`ba`_`TFV^`S```]Uaa]U¥b]UaTQ^WH]baGab
@HWI-EAS443:3:79:1592:1363#0/1
GGACGACTAATCCAGAATAGCATAACAATAGAGAGGATGG
+HWI-EAS443:3:79:1592:1363#0/1
aa]U]W¥_YYYZZaa^__a_¥¥_`__a_aab`b¥bZ^_ab

@HWI-EAS443:3:79:1713:688#0/1
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+HWI-EAS443:3:79:1713:688#0/1
abaaaba_^__a`aa`_`aZ`a]^a__ZZVX_`__^]Y^Z
@HWI-EAS443:3:79:1718:1278#0/1
GTTTTGGAGTAATTTGAATGGGTCTATCCCGACCAGTGAG
+HWI-EAS443:3:79:1718:1278#0/1
W_bbbbbbbba`abaaababbb_bbbbaa^^aaQbaaaa`
@HWI-EAS443:3:79:181:1139#0/1
AGCCCATACACACAAGCAGGCAGGCAGGATTTATGTGCAA
+HWI-EAS443:3:79:181:1139#0/1
¥V__¥WZa````]^[_`_¥Y_Z`ZYWXQQNY¥¥PQOXV
@HWI-EAS443:3:79:242:1094#0/1
TGCTGTTGCATCTTCGCCATTGTTTGCTTGCGCCAAACT
+HWI-EAS443:3:79:242:1094#0/1
¥a_XQY¥`S`^`__VZ``YJYQZVYT^XOR^XP]¥0]WUV
@HWI-EAS443:3:79:275:1058#0/1
CGTCCATCATAATCACTGAGTTTGAGTTCAGTGACATTT
+HWI-EAS443:3:79:275:1058#0/1
a`Paba]aY`Yaaaa_aa_aZ__`_a`a`_`[______^^
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AAACTCAGTGATTATGATGGACGACTAATCCAGAATAGCA
+HWI-EAS443:3:79:346:807#0/1
VWZa``¥bR_Ybabb__^a]^Y][]^`^aa¥a__`]a`¥
@HWI-EAS443:3:79:486:791#0/1
CTCTAATGCAAGTTCAACACTTCCCAGAAGGTCTGGTGC
+HWI-EAS443:3:79:486:791#0/1
abZ^^aab`b`aaQbb_X`aaaabaaaa`a^Y]a`_Y`
@HWI-EAS443:3:79:490:1699#0/1
GTCCTCCTGTTTTCTTAGGGTCCTTCCCAGCACTGGGATG
+HWI-EAS443:3:79:490:1699#0/1
`_bb`bbbaZbaaaa`][a_Ybaa`babaa_aaa__`^`_`
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TAACAATAGAGAGGATGGTCTTTCTGCTTTTGATGAGAG
+HWI-EAS443:3:79:591:21#0/1
aa`_a_aaaaaaaaa__a_VZ[T_¥^XPY^__`YU[¥X_]_
@HWI-EAS443:3:79:642:681#0/1
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+HWI-EAS443:3:79:642:681#0/1
__aaaa`ababaaa`]a`aaa^aaa_aa^`_`X`_]R
@HWI-EAS443:3:79:667:617#0/1
GTGAGCTGGGTTTTCTTTGTTCTCATCAGGCTGACCACT
+HWI-EAS443:3:79:667:617#0/1
a]bb]abbbbSbb[`ba`aaaUbbbb`a[b`aa`a`]aaa
@HWI-EAS443:3:79:673:1045#0/1
TGGGTTTCGACTTCTTACTTGATCCATCATTGCCCTC
+HWI-EAS443:3:79:673:1045#0/1
[^bb^bbabbbb`bbbbabbb_]aa^X__b]a`````]`
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+HWI-EAS443:3:79:726:1737#0/1
aaaa^b_S`a^aaaaZa_X^a__`^`_`_`_U_^`_[X__
@HWI-EAS443:3:79:799:822#0/1
GGGAGATTCTACATCCAAATGTGCACTGAACTCAAACCTCA
+HWI-EAS443:3:79:799:822#0/1
_aSYWZYZO[`]ZY^XN[a^NZab]bX]]V]]XZ[W^R
@HWI-EAS443:3:79:847:1882#0/1
TCAGTTGCACATAAATCCTGCCTGCCTGCTTGTGTGTATG
+HWI-EAS443:3:79:847:1882#0/1
aabaaabab]babbbaba[aaaaaaaaaa_aa`a_`aa
@HWI-EAS443:3:7:1006:1418#0/1
AGGGTACTCACTGGTCGGGATAGACCCATTCAAATTACTC
+HWI-EAS443:3:7:1006:1418#0/1
a_aa[ababbbaaa¥T`baa`aaaaV¥aaa]a``a_a]_[
@HWI-EAS443:3:7:1097:1147#0/1
GCTTTCTGCTTTTGATGAGAGAAGAAATAAATACCTAGAA
+HWI-EAS443:3:7:1097:1147#0/1
aaaaa_`a`abbbb`aa`a`a`aa```aaa`a`_Vaaa`_
@HWI-EAS443:3:7:1220:592#0/1
CCTGGGTTTCGACTTTCTTACTTGATCCATCATTGCCC
+HWI-EAS443:3:7:1220:592#0/1
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@HWI-EAS443:3:7:1238:553#0/1
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+HWI-EAS443:3:7:1238:553#0/1
abab[b_ba_bbaaT]_b`_aUa^b^`a`_]a]^Y__`]]
@HWI-EAS443:3:7:1330:1569#0/1
CACTTGGCTGTTTTGGAGTAATTTGAATGGGTCTATCCCG
+HWI-EAS443:3:7:1330:1569#0/1
aabbbab`aba`bb`¥F__a`^abW_b^bbaH¥`a`_^`_
@HWI-EAS443:3:7:1365:509#0/1
TGGACGACTAATCCAGAATAGCATAACAATAGAGAGGATG
+HWI-EAS443:3:7:1365:509#0/1
aba_]aaaaa_ab``a_aaabX_a_]_`a_a`_`_`_`_a
@HWI-EAS443:3:7:1399:247#0/1
GAGGTCTTCAATCTCAGCGTTTCCTGGGTTTCGACTTTCT
+HWI-EAS443:3:7:1399:247#0/1
a`aaXY_a_```_`R`a]a^`_]R^_^X^]X_YX]^]X_
@HWI-EAS443:3:7:1428:206#0/1
AATTACTCCAAAACAGCCAAGTGGTCAGCCTGATGAGACC
+HWI-EAS443:3:7:1428:206#0/1
`aaa_Z`a_aaaaXa_S^_aaX[GUZ]_ZU^_^]]X_ZVX
@HWI-EAS443:3:7:1539:1135#0/1
AAGGTCTGGTGCCGAGGTGCTGCGGTGAAAGGAGTTGGA
+HWI-EAS443:3:7:1539:1135#0/1
aaab[Y`bb_b`ab`_aa_aW`Ub_N^NV_^aZ_Q_^B
@HWI-EAS443:3:7:1603:1300#0/1
GTGCTTTCTGCTTTTGATGAGAGAAGAAATAAATACCTAG
+HWI-EAS443:3:7:1603:1300#0/1
a``_`_`_`^¥¥T]a``a__aZ_¥_¥^^Y¥¥]_^]_[ZV]]_

@HWI-EAS443:3:7:1611:544#0/1
CAAGCGCTCTTGTCTCTGATATGTGGCATCATTGAGTT
+HWI-EAS443:3:7:1611:544#0/1
`bbbb`]a_bbbbbQb`bb`aa`_aab_aa_aaa^_aa¥a
@HWI-EAS443:3:7:166:16#0/1
TATGGGCTTGCAGTAGCAAGTGGGCATGACTTTGAAAGGG
+HWI-EAS443:3:7:166:16#0/1
`aababaa¥[Z_Q^aaX_`PXKS]QR`¥`^`UWW^M¥L_
@HWI-EAS443:3:7:1675:1187#0/1
TAATCCAGAATAGCATAACAATAGAGAGGATGGTGCTTTC
+HWI-EAS443:3:7:1675:1187#0/1
a¥Za^X]¥X_b]a]a`^Z_[OY[VWa``]T` `[VRGT[BB
@HWI-EAS443:3:7:167:1191#0/1
CTCCTGTTTTCTTAGGGTCCTTCCCAGCACTGGGATGCTC
+HWI-EAS443:3:7:167:1191#0/1
aa`aba`baa]aa`aa`aaaaaa`aaa¥aa^a``a]`Z
@HWI-EAS443:3:7:1745:1507#0/1
CCAGTGCTGGGAAGGACCCTAAGAAAACAGGAGGACCCAT
+HWI-EAS443:3:7:1745:1507#0/1
V[V_[[XSS[V^abba^¥_]TWaa^S`Q_b_Q`]¥VH¥ZL
@HWI-EAS443:3:7:1754:728#0/1
ATCCAGAATAGCATAACAATAGAGAGGATGGTGCTTCTG
+HWI-EAS443:3:7:1754:728#0/1
a^PP][^aaa`^aa`_P]___aY[a`_a[`ZOUVV¥OYB
@HWI-EAS443:3:7:303:803#0/1
AGAGGGCAATGATGGATCAAGTAAGAGAAAAGTCGAAACCC
+HWI-EAS443:3:7:303:803#0/1
`¥_]` ``a`Q`^¥a`]a¥b_a`b`a_[_aXQa`T`SXY
@HWI-EAS443:3:7:484:534#0/1
GATGCAACAGCAGGTCTTACTCATATCATGATTTGGCATT
+HWI-EAS443:3:7:484:534#0/1
V__bbbbba__bbb]b`ba`bbbaba`baa^`_Y]¥Y_ba
@HWI-EAS443:3:7:642:626#0/1
GGGAGCGCCAGGATGCCACAGAAATCAGAGCATCTGTCCG
+HWI-EAS443:3:7:642:626#0/1
aaa^]WZ^[a`]^`^L[^N`_aUVXFZ``¥QTZNVXQQ^B
@HWI-EAS443:3:7:694:1246#0/1
GGTCCTCCTGTTTTCTTAGGGTCCTTCCCAGCACTGGGAT
+HWI-EAS443:3:7:694:1246#0/1
abSa][aa¥__aWYF0`^J^Y[¥^a]P]_`L`_¥[`a]N¥
@HWI-EAS443:3:7:725:1390#0/1
TCCAACCTCTTACCAGCACCTGCGGCACCAGACCTT
+HWI-EAS443:3:7:725:1390#0/1
aa`^a`a`a]`^aa`¥`a`]^`¥W^`U`¥¥S]QUQ[SYV¥
@HWI-EAS443:3:7:813:504#0/1
GCTGTTTGAATTTTCTTTGAGGATATTGCACATTCTTT
+HWI-EAS443:3:7:813:504#0/1
`aaa`a^b_aaaaaa^`aaaa`a^__a__]`[]_`[^`
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AGAGAGGATGGTGCTTTCTGCTTTTGATGAGAGAAGAAAT

+HWI-EAS443:3:7:81:1184#0/1
ab`]S_ba`a^T```aaa`WX]aaaY]]a^_XY]aa_``T
@HWI-EAS443:3:7:93:510#0/1
CAAGTGGTCAGCCTGATGAGACCAAATGAAAACCCAGCTC
+HWI-EAS443:3:7:93:510#0/1
aaaa]a`Y]Uaa`a_``]a_W_a^__`¥`__]^_]aX]U
@HWI-EAS443:3:80:1005:409#0/1
ACTTCCCAGAAGGTCTGGTGCCGAGGTGCTGCGGTGAAA
+HWI-EAS443:3:80:1005:409#0/1
aaaaa`aaaa_a`¥`aa`¥``Y__`_^Z]Za_Y¥`MWOY
@HWI-EAS443:3:80:1010:912#0/1
GAGGGGATCAGTTGCACATAAATCCTGCCTGCCTGCTTGT
+HWI-EAS443:3:80:1010:912#0/1
`Q`¥aa]PZ^R__a][^`a_a^`¥SXNTY¥U¥SPWSU[^U
@HWI-EAS443:3:80:1020:129#0/1
GGGTCCTCCTGTTTTCTTAGGGTCCTTCCCAGCACTGGGA
+HWI-EAS443:3:80:1020:129#0/1
_b`Ua[a_aaa``aaaa_a`aa^ZT_a]¥¥¥`^]_aaZ]Y
@HWI-EAS443:3:80:1041:698#0/1
CATTGCCCTCTGGGCAGCTGTTTGAAATTTTCCTTTGAGG
+HWI-EAS443:3:80:1041:698#0/1
abaabaa_bbaaa_aababbabb`aaaaaab_aaaaa`_a
@HWI-EAS443:3:80:1073:299#0/1
CACTTCCCAGAAGGTCTGGTGCCGAGGTGCTGCGGTGAA
+HWI-EAS443:3:80:1073:299#0/1
abbbbbbaaa`abb¥aabb]aaab_SabUa^]bMaYDZT^
@HWI-EAS443:3:80:122:1667#0/1
GTTGCATCTTCGCCATTGTTTGCTTGGCGCCAAACTCTCC
+HWI-EAS443:3:80:122:1667#0/1
a__Ya^aaaabZaabaaaa_ab^¥0¥```aY`¥]_`_YT
@HWI-EAS443:3:80:1328:1262#0/1
GTGAAAATGGACGAAGGACAAGGGTTGCTTATGAAAGAAT
+HWI-EAS443:3:80:1328:1262#0/1
`Zb[a_aaa``_a`^aa]]__a__Z^`Y^`^_aV^`^_`^`
@HWI-EAS443:3:80:1329:412#0/1
GTCCGAAGAATGATTGGTGAATCGGGAGATTCTACATCC
+HWI-EAS443:3:80:1329:412#0/1
^X`)]`a`_`b]W]X]aa[QXRaa[YN__aW_a¥^_TZXTS
@HWI-EAS443:3:80:1388:238#0/1
ATCTGTCCGAAGAATGATTGGTGAATCGGGAGATTCTAC
+HWI-EAS443:3:80:1388:238#0/1
abX]Ya]baaaba]aa_a^¥[a_a__^[_T^_aXXZG]_U
@HWI-EAS443:3:80:1436:237#0/1
GTGGAATCGGGAGATTCTACATCCAAATGTGCACTGAACT
+HWI-EAS443:3:80:1436:237#0/1
`aa__aa`_ZZ`b`aa`__Y]`^`_`_]`^aU`][U`_`^U^
@HWI-EAS443:3:80:1571:253#0/1
TTCTGGGATCCATTCCGGTGCGAACAAGCGCTCTTGTCT
+HWI-EAS443:3:80:1571:253#0/1
a`a_UZRa_¥_[aaN¥aaW^UaV¥WZ¥¥Y_N^W__^Y]SY

@HWI-EAS443:3:80:161:1830#0/1
GGCATGACTTTGAAAGGGAAGGGTACTCACTGGTCGGGAT
+HWI-EAS443:3:80:161:1830#0/1
S]aT_[]¥_[baaaX0Q^a]baaXabaaaa^^`Ua`¥`a¥
@HWI-EAS443:3:80:183:816#0/1
AGAGAGGATGGTGCTTTCTGCTTTTGATGAGAGAAGAAAT
+HWI-EAS443:3:80:183:816#0/1
aa`a^bbaabZHY¥^a`[Za```a_JX]SS_FV[]TWT[_
@HWI-EAS443:3:80:249:1345#0/1
GTGCTGACCGTGCCAGGAAAATGAGGTCTTCAATCTCAGC
+HWI-EAS443:3:80:249:1345#0/1
]^`aaZW_b__aaaa`]aaa¥X¥`_Vaaa`X¥__aa_`
@HWI-EAS443:3:80:270:1204#0/1
TGCTTTCTGCTTTTGATGAGAGAAGAAATAAATACCTAGA
+HWI-EAS443:3:80:270:1204#0/1
`bb`aaaabbaa_`b^R`aa_a`aa¥]a_`Za`aa`]a_`
@HWI-EAS443:3:80:278:252#0/1
GAATGATTGGTGAATCGGGAGATTCTACATCCAAATGTG
+HWI-EAS443:3:80:278:252#0/1
a^^`^`a_T¥_`Ya]aa[¥V]XR]_^][^_]Y`TZUTW_
@HWI-EAS443:3:80:295:274#0/1
GCTGTTGCATCTTCGCCATTGTTTGCTTGGCGCCAAACTC
+HWI-EAS443:3:80:295:274#0/1
aaZ_Q¥V^_Y__^`]¥`_[]SU`_UYU¥Z¥WWYTV¥SP[W
@HWI-EAS443:3:80:313:1164#0/1
CACATAAATCCTGCCTGCCTGCTTGTGTGTATGGGCTTGC
+HWI-EAS443:3:80:313:1164#0/1
abbb`__`abaaaab`aa[aaaaaa^__a^^`a``a^`_`
@HWI-EAS443:3:80:331:587#0/1
CAAACAATGGCGAAGATGCAACAGCAGGTCTTACTCATAT
+HWI-EAS443:3:80:331:587#0/1
a`bbaaba_aaaaaa__a`a```a___X__`_^`^`
@HWI-EAS443:3:80:498:2035#0/1
CAAGCAAACAATGGCGAAGATGCAACAGCAGGTCTTACTC
+HWI-EAS443:3:80:498:2035#0/1
¥``^baa_bb]baaaabY^¥_a``a_`Q_a_ZRR[^`_¥T
@HWI-EAS443:3:80:555:381#0/1
TAGCAAGTGGGCATGACTTTGAAAGGGAAGGGTACTCACT
+HWI-EAS443:3:80:555:381#0/1
Z[^V¥`¥W`a``abLbbaaa`^b]Z]ZZ[_`ST]a`_Z¥
@HWI-EAS443:3:80:605:1109#0/1
GTGCTTTCTGCTTTTGATGAGAGAAGAAATAAATACCTAG
+HWI-EAS443:3:80:605:1109#0/1
aV`_____`[^_¥Q¥aZ_X^Y`_^^^a^`^`_W]`Y
@HWI-EAS443:3:80:60:1437#0/1
GATTGGTGAATCGGGAGATTCTACATCCAAATGTGCACT
+HWI-EAS443:3:80:60:1437#0/1
aaaXZYXXJLUN]aW]_^V^^`]S[XZa_[T¥POLR¥_]R
@HWI-EAS443:3:80:659:986#0/1
TATTGTTCCAACCTCTTTCACCGCAGCACCTGCGGCACCA

+HWI-EAS443:3:80:659:986#0/1
`Uaa^a`aba`ba^^aaaaab`aaaaaa]aa]¥_aa^¥a
@HWI-EAS443:3:80:728:1037#0/1
CTGAATGATGCCACATATCAGAGAACAAGAGCGCTTGTTC
+HWI-EAS443:3:80:728:1037#0/1
a_a`a_`X^_aa`^`a_aa¥`^[^Z^[[`___¥YW`U^W
@HWI-EAS443:3:80:743:120#0/1
CTATTCTGGATTAGTCGTCCATCATAATCACTGAGTTTGA
+HWI-EAS443:3:80:743:120#0/1
^b`ba`b`¥`aaba^X`S]^bb[`a_a_Y¥` `a¥a[^^_W
@HWI-EAS443:3:80:869:1770#0/1
ATGGGCTTGCAAGTGGGCATGACTTTGAAAGGGA
+HWI-EAS443:3:80:869:1770#0/1
a_Z¥]aYaa`^aZ^]_MV`V¥^_`a^` `¥VS]_]MLJ
@HWI-EAS443:3:80:885:1255#0/1
GTCGAAGAATGATTGGTGAATCGGGAGATTCTACATCC
+HWI-EAS443:3:80:885:1255#0/1
aabbaaaaabaaa`a`_Waaaaaaaa`a`__`a`_X]
@HWI-EAS443:3:80:97:1987#0/1
TCGAAGAATGATTGGTGAATCGGGAGATTCTACATCCA
+HWI-EAS443:3:80:97:1987#0/1
`aaa__W]QY[T^YZaXYSZYZ` `][]¥]W^VQ¥[[` [`
@HWI-EAS443:3:80:980:89#0/1
GGCTTGCAAGTGGGCATGACTTTGAAAGGGAAGG
+HWI-EAS443:3:80:980:89#0/1
Zba_KZ` `b]T_bZZaa`abZXsba[babba[U^`UU]a`
@HWI-EAS443:3:80:987:1442#0/1
CACATAAATCCTGCCTGCCTGCTTGTGTGTATGGGCTTGC
+HWI-EAS443:3:80:987:1442#0/1
abbbbbbaabba^aabaaba`abb¥b_a_aaa_`a¥¥_X
@HWI-EAS443:3:81:1022:1912#0/1
GTGGGCATGACTTTGAAAGGGAAGGGTACTCACTGGTCGG
+HWI-EAS443:3:81:1022:1912#0/1
a^^WZ_^_b[aaba__]^`]aaa`^YGaaa¥`aSa`U[¥^
@HWI-EAS443:3:81:1142:1030#0/1
CTCTCATCAAAGCAGAAAGCACCATCCTCTCTATTGTTA
+HWI-EAS443:3:81:1142:1030#0/1
^`b_aa` `a¥`b`_]¥¥aa`_b`^T__G_^`a` ` `b`
@HWI-EAS443:3:81:1229:863#0/1
ATCATAATCACTGAGTTTGAGTTCAGTGCACATTTGGATG
+HWI-EAS443:3:81:1229:863#0/1
ab`abbabaa`ba`_abbaaa_a`a`^a_a`aaaa`a` `
@HWI-EAS443:3:81:1262:1660#0/1
AAAGCAGAAAGCACCATCCTCTCTATTGTTATGCTATTCT
+HWI-EAS443:3:81:1262:1660#0/1
aaa` `b__ZR]LSWYa`¥Z`__a`^] `]N]Y_`^a^`^S]
@HWI-EAS443:3:81:1284:214#0/1
GTGGGCATGACTTTGAAAGGGAAGGGTACTCACTGGTCGG
+HWI-EAS443:3:81:1284:214#0/1
aTaSQWa¥__Y_aaa_a_aZ_`^`Z_TZOX¥_S`_NNW[H

@HWI-EAS443:3:81:1320:1377#0/1
GAATGAGTGCTGACCGTGCCAGGAAAATGAGGTCCTTCAAT
+HWI-EAS443:3:81:1320:1377#0/1
aa`a]`_Ua__a_T__[\`V¥V¥¥¥¥W[UUU_[W¥_WW¥W¥
@HWI-EAS443:3:81:132:1370#0/1
CCAGAATAGCATAACAATAGAGAGGATGGTGCTTTCTGCT
+HWI-EAS443:3:81:132:1370#0/1
ab^aTVY^PTb¥V`bYW_]YV_0[H^_PZG]ZHYY]VMLW
@HWI-EAS443:3:81:1383:1078#0/1
TTGGTCTCATCAGGCTGACCACTTGGCTGTTTTGGAGTAA
+HWI-EAS443:3:81:1383:1078#0/1
`aba_a`W`[]aVPU[_a`Z_``]V¥a_NY`_HTQTNMV
@HWI-EAS443:3:81:1392:850#0/1
GTAATTTGAATGGGTCTATCCCGACCAAGTACCCCTTC
+HWI-EAS443:3:81:1392:850#0/1
_FXT[^RLX`U`T¥NZXX^RRNSNRVUHGSWQTVUMGS
@HWI-EAS443:3:81:1448:1086#0/1
CTGATATGTGGCATCATTGAGTTGGAATGCCAAATCATG
+HWI-EAS443:3:81:1448:1086#0/1
Y]Xaba`[TS`[TRaa`TYY`]_[N_L¥TTZ¥ZLR[_a¥
@HWI-EAS443:3:81:1491:1193#0/1
AGTGAGTACCCTTCCCTTTCAAAGTCATGCCCACTTGCTA
+HWI-EAS443:3:81:1491:1193#0/1
`aQaaa[___Ua]a_Y_aa^[a`_aYW_¥FZWY_VaWaH^N
@HWI-EAS443:3:81:1640:1854#0/1
AGAGCATCTGTCGGAAGAATGATTGGTGGGAATCGGGAGAT
+HWI-EAS443:3:81:1640:1854#0/1
¥RY`_aa^a`Qa`]^`aaa¥`__^X_S^]_]_]`^`^`[^
@HWI-EAS443:3:81:1714:1962#0/1
GGGGAGCGCCAGGATGCCACAGAAATCAGAGCATCTGTCCG
+HWI-EAS443:3:81:1714:1962#0/1
¥RV_`ZY_¥Q^^Z^N__UW`]_]_]`Q^X¥RQ]_XZ]JJL
@HWI-EAS443:3:81:205:1360#0/1
GTTTTCATTTGGTCTCATCAGGCTGACCACTTGGCTGTTT
+HWI-EAS443:3:81:205:1360#0/1
aWaa^__aa`_][a`a`aa``[a`_a_]`_a^ZUa^TMY_
@HWI-EAS443:3:81:212:261#0/1
GGAGAGTTTGGCGCAAGCAAACAATGGCGAAGATGCAAC
+HWI-EAS443:3:81:212:261#0/1
aabaa^_a]aaaa_baaabVa_a__``]`U¥`_¥``^`_
@HWI-EAS443:3:81:226:1162#0/1
GGGAAGGACCCTAAGAAAACAGGAGGACCCATATATAGAA
+HWI-EAS443:3:81:226:1162#0/1
¥]aZ`a_Va¥a¥LZb_aY^a]a_a^aaa``^`[aX]``Z`
@HWI-EAS443:3:81:310:133#0/1
GTCCATCATAATCACTGAGTTTGAGTTCAGTGACATTTG
+HWI-EAS443:3:81:310:133#0/1
a_aaaaa^`aaaa_`^`M`^`_`_]`X¥^X_Z]^^]]]^Z]
@HWI-EAS443:3:81:325:744#0/1
CTTCCCAGAAGGTCTGGTGCCGAGGTGCTGCGGTGAAAG

+HWI-EAS443:3:81:325:744#0/1
aaaa`baa¥aba_aa`a_b^^aaaa^Xa^]a`adW]HRU^
@HWI-EAS443:3:81:504:1398#0/1
CAAGGTTCAACACTTCCCAGAAGGTCTGGTGCCGCAGGTG
+HWI-EAS443:3:81:504:1398#0/1
a`[aZVU^_`¥W]`ZZ^[H¥Q]Q^T`¥RJKY[U]^N]PF¥
@HWI-EAS443:3:81:506:1621#0/1
GAATGATTGGTGAATCGGGAGATTCTACATCCAAATGTG
+HWI-EAS443:3:81:506:1621#0/1
aaaZa`_`[[G]``abaM`W[`a`b`a`¥U_aaaa]YV`
@HWI-EAS443:3:81:532:1500#0/1
TCAGTGCACATTTGGATGTAGAATCTCCCGATTCCACCAA
+HWI-EAS443:3:81:532:1500#0/1
aa^a]^_`^aaaa[aaa`U___`_]_``¥S[`]`aY[`]Z
@HWI-EAS443:3:81:571:1983#0/1
GGACGAAGGACAAGGGTTGCTTATGAAAGAATGTGCAATA
+HWI-EAS443:3:81:571:1983#0/1
a¥`ab`PWT LJ¥LW¥GT]]Wa¥V^^`[`]JTLX[XZa_]Z]
@HWI-EAS443:3:81:593:1648#0/1
TGGGTCCTCCTGTTTTCTTAGGGTCCTTCCCAGCACTGGG
+HWI-EAS443:3:81:593:1648#0/1
`TY`¥aa_aaa`^`_`a_a_¥W^a`_`aa^aY`[[Z[SZ
@HWI-EAS443:3:81:663:1560#0/1
GTTGCATCTTCGCCATTGTTTGCTTGGCGCCAAACTCTCC
+HWI-EAS443:3:81:663:1560#0/1
¥^]]aaaZa¥`a[S¥¥[¥¥a¥^¥¥aY`]ZV^Ubb]_aba]
@HWI-EAS443:3:81:67:390#0/1
AGTGCACATTTGGATGTAGAATCTCCCGATTCCACCAATC
+HWI-EAS443:3:81:67:390#0/1
aVab`bb]bbbabbab]aab`aaaa_aa_``aaaa]^`^_
@HWI-EAS443:3:81:708:1658#0/1
GAATAGCATAACAATAGAGAGGATGGTGCTTTCTGCTTTT
+HWI-EAS443:3:81:708:1658#0/1
Q¥Y^`^Yabb__]]¥[XXXX_]`a[OX``a_VQSP_XX]X
@HWI-EAS443:3:81:819:737#0/1
CACGGTCAGCACTCATTCTGAGGGGATCAGTTGCACATAA
+HWI-EAS443:3:81:819:737#0/1
aaaaaaaa_]_aa¥aaaa`a¥YXaS``^aS^a`a^]]^S
@HWI-EAS443:3:81:832:239#0/1
GACAGATGCTCTGATTTCTGTGGCATCCTGGCGCTCCCCA
+HWI-EAS443:3:81:832:239#0/1
aa_a`^abaa_a¥^a_`]`^]__UW^YW¥]¥W¥T¥WYUY
@HWI-EAS443:3:81:892:1987#0/1
GGGGAGCGCCAGGATGCCACAGAAATCAGAGCATCTGTCCG
+HWI-EAS443:3:81:892:1987#0/1
`a`aaa```Ta`]a_a_`a`b`aaa`aa_`]`a^^`ZVS¥
@HWI-EAS443:3:81:915:1114#0/1
CTGGTGGGGAGCGCCAGGATGCCACAGAAATCAGAGCATC
+HWI-EAS443:3:81:915:1114#0/1
abba^abbbabbbaabba``aa`aabaaaaaaaaaaaaa_

@HWI-EAS443:3:81:932:346#0/1
ATAATCACTGAGTTTGGAGTTTCAGTGCACATTTGGATGTAG
+HWI-EAS443:3:81:932:346#0/1
ab]`a`aaa`ab_aba_b¥aa_a_`^`[a`aaa`__Y__
@HWI-EAS443:3:82:1241:1934#0/1
AACAAGCGCTCTTGTCTCTGATATGTGGCATCATTACAGG
+HWI-EAS443:3:82:1241:1934#0/1
ab_baT[aabaa^_W__a_a`baaa^^¥UWa_aa]aS_]U
@HWI-EAS443:3:82:1312:805#0/1
CTCCTGTTTTCTTAGGGTCCTTCCCAGCACTGGGATGCTC
+HWI-EAS443:3:82:1312:805#0/1
abaa_`bbbbabbbabb`abaaaa[aa_bbbb_b`ab`b_
@HWI-EAS443:3:82:1416:885#0/1
CGCCAAGCAAACAATGGCGAAGATGCAACAGCAGGTCTTA
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@HWI-EAS443:3:82:143:1657#0/1
ATCCCAGCAGTGAGTACCCTTCCCTTTCAAAGTCATGCC
+HWI-EAS443:3:82:143:1657#0/1
a`_aaabb`]^SW¥PSZ¥]_a]aa_P]XZ¥JWLL][]T`_
@HWI-EAS443:3:82:1510:576#0/1
TGGACGACTAATCCAGAATAGCATAACAATAGAGAGGATG
+HWI-EAS443:3:82:1510:576#0/1
abbb_ababbb`a`ababbaabbaa`ab^bab`b`^a`
@HWI-EAS443:3:82:1510:790#0/1
GCTTATGAAAGAATGTGCAATATCCTCAAAGGAAAATTC
+HWI-EAS443:3:82:1510:790#0/1
aaba_`^`Y_aa¥aabTa^Xaa_a[U`R__aab][[_aX
@HWI-EAS443:3:82:1617:43#0/1
CATTCCGGTGCGAACAAGCGCTCTTGTCTCTGATATGTG
+HWI-EAS443:3:82:1617:43#0/1
a[LSaZ^`^`][aa`aab[b_aaaX]Z__a`^`Ua]¥`_`
@HWI-EAS443:3:82:1696:1065#0/1
CTCCTGTTTTCTTAGGGTCCTTCCCAGCACTGGGATGCTC
+HWI-EAS443:3:82:1696:1065#0/1
RPa_¥]M_¥` `[aR[_JZ^_ZWX[_^bbbVbXK[a_b__H
@HWI-EAS443:3:82:1707:454#0/1
TCCTGTTTTCTTAGGGTCCTTCCCAGCACTGGGATGCTCT
+HWI-EAS443:3:82:1707:454#0/1
Z`_`_VSSX¥¥]bbbbXWU_aU_R¥^¥aa¥`bbaa_VS]J
@HWI-EAS443:3:82:203:1235#0/1
GTACTCACTGGTGGGATAGACCCATTCAAATTACTIONCAA
+HWI-EAS443:3:82:203:1235#0/1
a^aaaaaa]^^]aa`a_`^¥R`_`^`^]PZ`]^a__a^`_
@HWI-EAS443:3:82:244:305#0/1
TGGGTTTCGACTTTCTTACTTGATCCATCATTGCCCTC
+HWI-EAS443:3:82:244:305#0/1
abbb_bbab_aaaaaaaaaa_`aa^`a^a`aa`_a`____
@HWI-EAS443:3:82:290:381#0/1
ATCATAATCACTGAGTTTGGAGTTTCAGTGCACATTTGGATG

+HWI-EAS443:3:82:290:381#0/1
aabbbaaa`aaaa]Ra¥a`a`_`aaa]a_^aa]`a`]a_`
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GGTGCTTTCTGCTTTTGATGAGAGAAGAAATAAATACCTA
+HWI-EAS443:3:82:356:694#0/1
]HYaaaaaaaa_aaaaaaaaa_aVa_aa`aZabaa`____a
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TGCTTTCTGCTTTTGATGAGAGAAGAAATAAATACCTAGA
+HWI-EAS443:3:82:37:612#0/1
aaabaabaaa]bbaaaaa`a_a`aaa¥``a¥a`a`Z_a_a
@HWI-EAS443:3:82:38:245#0/1
GTGCTGGGAAGGACCCTAAGAAAACAGGAGGCCCATATA
+HWI-EAS443:3:82:38:245#0/1
a]ba`aaa_a_a`_a`_`____`¥[U_]_^]]V_YWZW^
@HWI-EAS443:3:82:392:888#0/1
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+HWI-EAS443:3:82:392:888#0/1
_`bbb`b`baa]bb[`Wbababab]]bbb_ababa`aab`
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+HWI-EAS443:3:82:439:1121#0/1
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@HWI-EAS443:3:82:465:1085#0/1
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+HWI-EAS443:3:82:465:1085#0/1
` `baa[aba`aa¥aa`aa_aaa^aa__aa__a_Y¥`¥__
@HWI-EAS443:3:82:465:937#0/1
GAGGGGATCAGTTGCACATAAATCCTGCCTGCCTGCTTGT
+HWI-EAS443:3:82:465:937#0/1
]U_]OU_]_aa[```a[Z¥aZZ_U][XZ_`a_``_Ya_`U
@HWI-EAS443:3:82:479:545#0/1
ATCCATTCCGGTGCGAACAAGCGCTCTTGTCTCTGATAT
+HWI-EAS443:3:82:479:545#0/1
`b]bZ_abbaWG_aa_`_a]X`aa^a^[aU_`_``a[Z]_`
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TGGTGCTTTCTGCTTTTGATGAGAGAAGAAATAAATACCT
+HWI-EAS443:3:82:489:1388#0/1
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@HWI-EAS443:3:82:541:50#0/1
GCTGTTTGAATTTTCTTTGAGGATATTGCACATTCTTT
+HWI-EAS443:3:82:541:50#0/1
a`ab^aaa_`¥aaaa__aa`a`a`^`_`¥^¥[^[V^ZR]__
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+HWI-EAS443:3:82:636:1067#0/1
aa_Zaabaaaa`_aYa]aaabbaa`ba_a[a_a`[`bZa^
@HWI-EAS443:3:82:751:1661#0/1
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+HWI-EAS443:3:82:751:1661#0/1
U[b]bbbbbbbaa`Vbbabbbabbabbbbaab_bbabbbbbb

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+HWI-EAS443:3:82:76:57#0/1
aa``baabbababb_baaaaa_]aS_]PZ_``TVZUT]X
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GGACGAAGGACAAGGGTTGCTTATGAAAGAATGTGCAATA
+HWI-EAS443:3:82:800:850#0/1
`a_¥¥_¥^aba_]_`a¥abZ^aY`a[Z`aa¥aaY¥]^^^
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+HWI-EAS443:3:82:82:32#0/1
`b_`aab```aaaa_]`aaV`a`aa`a`X_aa_WSXY^Y
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+HWI-EAS443:3:82:898:757#0/1
a_b_aaabbaa`aaa`aaaaa_]`aa_`aa_]aa_a_
@HWI-EAS443:3:83:1010:923#0/1
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+HWI-EAS443:3:83:1010:923#0/1
aabbbababbb_XZZabbaababb`bbba`abab]^b`a^
@HWI-EAS443:3:83:103:1434#0/1
CACTTGGCTGTTTTGGAGTAATTTGAATGGGTCTATCCCG
+HWI-EAS443:3:83:103:1434#0/1
aaaZ_`[_aaW[a]HSPQNYWY]XPXYQUU[HVLWFV[^V
@HWI-EAS443:3:83:1062:2043#0/1
ATGACTTTGAAAGGGAAGGGTACTCACTGGTCGGGATAGA
+HWI-EAS443:3:83:1062:2043#0/1
a_a`a`aa_aaaY_`_`^_Za^_a`]Z_XZ¥^_^]^`^_
@HWI-EAS443:3:83:1180:77#0/1
TCCTCCTGTTTTCTTAGGGTCCTTCCCAGCACTGGGATGC
+HWI-EAS443:3:83:1180:77#0/1
a_`__`abVaba_]a___ZOV__[]V^]aXOVY^]YY^]V
@HWI-EAS443:3:83:1348:1135#0/1
AGCACTGGGATGCTCTTCTAGGTATTTATTTCTTCTCTCA
+HWI-EAS443:3:83:1348:1135#0/1
aab_ab`baaba`a_ba`aba`Uabaaaaba_baaaab_a
@HWI-EAS443:3:83:135:1569#0/1
GAATGATTGGTGAATCGGGAGATTCTACATCCAAATGTG
+HWI-EAS443:3:83:135:1569#0/1
``__aaa`b`W`aaa__``__¥aTYa_^[_][^H`^_]_
@HWI-EAS443:3:83:1478:404#0/1
TTTCTGCTTTTGATGAGAGAAGAAATAAATACCTAGAAGA
+HWI-EAS443:3:83:1478:404#0/1
_¥^Xbaaaa`b``_bYa`a__a_]`_Z`_`a]XSa^^]_^
@HWI-EAS443:3:83:1533:331#0/1
GGGAGATTCTACATCCAAATGTGCACTGAACTCAAACCTCA
+HWI-EAS443:3:83:1533:331#0/1
_Z]VaX^_QWVMTY[ZZ¥[¥ZZ]W¥Y^^][X]SYUWYYQY
@HWI-EAS443:3:83:1592:306#0/1
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+HWI-EAS443:3:83:1592:306#0/1
aa`U__¥ZXZ````aaX]¥YaaaU_[X]S```a¥`¥a_¥[
@HWI-EAS443:3:83:1650:614#0/1
GCTATTCTGGATTAGTCGTCCATCATAATCACTGAGTTTG
+HWI-EAS443:3:83:1650:614#0/1
__b_aaabbbba`b¥a]`YGY`aSaaaa¥¥Waaa^^a__
@HWI-EAS443:3:83:240:467#0/1
CATTGCCCTCTGGGCAGCTGTTTCAAATTTTCCTTTGAGG
+HWI-EAS443:3:83:240:467#0/1
aba]_W`baa`aa]``¥`_`WY]a[[]__aXY[¥`[aZZX
@HWI-EAS443:3:83:302:1783#0/1
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+HWI-EAS443:3:83:302:1783#0/1
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@HWI-EAS443:3:83:427:1725#0/1
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+HWI-EAS443:3:83:427:1725#0/1
`a`abbabba`bbb_bbaabababbb`ab`ab_aaba
@HWI-EAS443:3:83:622:1197#0/1
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+HWI-EAS443:3:83:622:1197#0/1
^^Ta]DY`ba^`babba_aZY]b[aaa`a]Za`_``[Y¥^
@HWI-EAS443:3:83:626:1365#0/1
ATCATAATCACTGAGTTTGAGTTCAGTGCACATTTGGATG
+HWI-EAS443:3:83:626:1365#0/1
aaaaabbabbaa`^__aaaa^a`a`_aaa`aaaa_Za__
@HWI-EAS443:3:83:701:489#0/1
GTGCTGGGAAGGACCCTAAGAAAACAGGAGGCCCATATA
+HWI-EAS443:3:83:701:489#0/1
a`a__a`^^`aXW]_^a¥^ZZ[^_`aa_]_^¥T]Z__^_
@HWI-EAS443:3:83:795:95#0/1
CGCTGAGATTGAAGACCTCATTTTCCTGGCACGGTCAGCA
+HWI-EAS443:3:83:795:95#0/1
ab`bbbaabababaaab_aaaaaaabbaabb_¥abS_
@HWI-EAS443:3:83:805:858#0/1
CAACACTTCCCAGAAGGTCTGGTGCCGAGGTGCTGCGGT
+HWI-EAS443:3:83:805:858#0/1
abbabbbbbbbba]bb¥abaa¥bbaba¥aa¥a_`a`aaM
@HWI-EAS443:3:83:88:1995#0/1
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+HWI-EAS443:3:83:88:1995#0/1
a``V`a`UZ¥^QFYUQPY[¥_aVY`¥¥¥ZUR¥V¥N¥]WS
@HWI-EAS443:3:83:942:1128#0/1
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+HWI-EAS443:3:83:942:1128#0/1
Ya[]^a_`b_aYa`[ab_`¥a`aa¥Qa`aaaa`aXZ[T`
@HWI-EAS443:3:83:962:1550#0/1
CTCTTACTTGATCCATCATTGCCCTCTGGGCAGCTGTTTG
+HWI-EAS443:3:83:962:1550#0/1
aTFW^`_bb_^_V¥_¥VYZ^WM[aaJJOVXR`^T`[`aa

@HWI-EAS443:3:83:99:1122#0/1
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+HWI-EAS443:3:83:99:1122#0/1
aaaaaaXa`baa`aaa`aaaaaaaa[``_aaa``^__]
@HWI-EAS443:3:84:1006:2008#0/1
TAGCATAACAATAGAGAGGATGGTGCTTTCTGCTTTTGG
+HWI-EAS443:3:84:1006:2008#0/1
ab]_bbbbUX`aa]babaaX`XI¥``S_¥Rb]aaabaa¥
@HWI-EAS443:3:84:1016:829#0/1
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+HWI-EAS443:3:84:1016:829#0/1
`I`_b^[¥_¥N__V^Yaaa[aaa`aaa`aZ`aaaa[Z]
@HWI-EAS443:3:84:1021:1033#0/1
GGCATGACTTTGAAAGGGAAGGGTACTCACTGGTCGGGAT
+HWI-EAS443:3:84:1021:1033#0/1
aba]`bab`^_b_a_aaa`abaWaaa`aaa]^_`aa_]_
@HWI-EAS443:3:84:1058:297#0/1
GTGGGCATGACTTTGAAAGGGAAGGGTACTCACTGGTCGG
+HWI-EAS443:3:84:1058:297#0/1
a_`[`a^aa`[aa`^¥Z[^_¥¥^W¥V¥Y¥T¥WVY^TW^Z
@HWI-EAS443:3:84:1199:1131#0/1
GAGGATGGTCTTCTGCTTTTGGATGAGAGAAGAAATAAA
+HWI-EAS443:3:84:1199:1131#0/1
^[bb`^Z¥VaI_`a¥`¥_XY_a`ab¥Ya__Q^]T`_]`]
@HWI-EAS443:3:84:1237:1464#0/1
CAGGAAACGCTGAGATTGAAGACCTCATTTTCTGGCACG
+HWI-EAS443:3:84:1237:1464#0/1
a_`[W^aSa¥_`[[Waaa_[]``K_aabaa`R^aQaa¥a
@HWI-EAS443:3:84:1302:1048#0/1
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+HWI-EAS443:3:84:1302:1048#0/1
a`aaa`ab`W`a`aNaa`aaaaaa`a`a`__`V`_`_`_`_`_`
@HWI-EAS443:3:84:1513:627#0/1
ACAATAGAGAGGATGGTGCTTTCTGCTTTTGGATGAGAGAA
+HWI-EAS443:3:84:1513:627#0/1
aaaababab`abaaa_Z`^aaa^`a[aaaa`_`a_a`^`_
@HWI-EAS443:3:84:1692:1973#0/1
CATTGCCCTCTGGCAGCTGTTTAAAATTTTCTTTGAGG
+HWI-EAS443:3:84:1692:1973#0/1
abb``a]ab^Z`ba_a__abab`]`b¥bbbbZ¥aaaa]R`
@HWI-EAS443:3:84:1774:1810#0/1
GGTGCTTCTGCTTTTGGATGAGAGAAGAAATAAATACCTA
+HWI-EAS443:3:84:1774:1810#0/1
a`¥Ya`_]``a_a`__`^a^`^a^`]Y_^`^]VY`_`_
@HWI-EAS443:3:84:1778:638#0/1
GAAGAGCATCCCAGTGCTGGGAAGGACCCTAAGAAAACAG
+HWI-EAS443:3:84:1778:638#0/1
a`_^a`V]XXPY^VU]YMVSOY[VXUUSK]VU^[]MZSVQ
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+HWI-EAS443:3:84:224:1519#0/1
aaaaa]Y__`_`_aZ`¥]___^^^`_QY]^X]ZZ_¥Y
@HWI-EAS443:3:84:267:963#0/1
GGGAGATTCTACATCCAAATGTGCACTGAACTCAAACCTCA
+HWI-EAS443:3:84:267:963#0/1
ab_`^¥Z¥]_Y_Z_aa¥`Z_WQ]]X`¥[[L[¥`]VNZ]`_`
@HWI-EAS443:3:84:362:1825#0/1
CTGGGATCCATTCCGGTGCGAACAAGCGCTCTTGTTCTCT
+HWI-EAS443:3:84:362:1825#0/1
a`^`¥a`aaaa`a_[N_a_aaaa]^`___`_¥W^`¥`]
@HWI-EAS443:3:84:447:677#0/1
CTCCTGTTTTCTTAGGGTCCTTCCCAGCACTGGGATGCTC
+HWI-EAS443:3:84:447:677#0/1
a`^`a`^`^`^`^`^`a]a_¥Y`__`_Z_a`a`^`^`[`a¥_[
@HWI-EAS443:3:84:483:1133#0/1
GGGGAGCGCCAGGATGCCACAGAAATCAGAGCATCTGTCCG
+HWI-EAS443:3:84:483:1133#0/1
abbbaaaa_`^aaaa`¥aaaabaaaa¥aa]]aaaa`VY[
@HWI-EAS443:3:84:495:882#0/1
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+HWI-EAS443:3:84:495:882#0/1
aaabaaaaaaaa`aa`a^aa`aa^a`^X_aaYa^a^``a_
@HWI-EAS443:3:84:534:1038#0/1
GTGCTTTCTGCTTTTGATGAGAGAAGAAATAAATACCTAG
+HWI-EAS443:3:84:534:1038#0/1
a]`aaaaaaaa`]]`[YaY_W_YOY^___[¥YY_Y[[`X
@HWI-EAS443:3:84:552:110#0/1
GGATGGTGCTTTCTGCTTTTGATGAGAGAAGAAATAAATA
+HWI-EAS443:3:84:552:110#0/1
a__^aa[a^`a_`_Z__a`_Z`_X`^`Z]`Z]^`]]^^]
@HWI-EAS443:3:84:599:492#0/1
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+HWI-EAS443:3:84:599:492#0/1
aa`abbbaaT^a`K`^X`_aa^W[`TV¥aU__]`[`_X
@HWI-EAS443:3:84:657:896#0/1
CTTCCGACAGATGCTCTGATTTCTGTGGCATCCTGGCGCT
+HWI-EAS443:3:84:657:896#0/1
abb`¥_`a``Sa]^a`V[``^`_Z_¥[__¥^¥_X¥Y[VXP
@HWI-EAS443:3:84:737:929#0/1
AGCTGTTTGAAATTTTCCTTTGAGGATATTGCACATTCTT
+HWI-EAS443:3:84:737:929#0/1
]Z¥H_`^`[U_XZXZWR¥XPNY_[_¥][`a`QPDLZ_YZ[
@HWI-EAS443:3:84:757:1193#0/1
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+HWI-EAS443:3:84:757:1193#0/1
`a^`b_`_a_a_a]]aa_aabaWY¥_`^aa¥[[¥_R_]__
@HWI-EAS443:3:84:760:1441#0/1
ATCCAGAATAGCATAACAATAGAGAGGATGGTGCTTTCTG
+HWI-EAS443:3:84:760:1441#0/1
`_baa]bM`b¥`aW_`^^¥aaaa_¥aG[`Y_UWUW[a¥^¥

@HWI-EAS443:3:84:765:1099#0/1
GAATAGCATAACAATAGAGAGGATGGTGCTTTCTGCTTTT
+HWI-EAS443:3:84:765:1099#0/1
YaVbabb__T`a^bbq]aR`aaba`[_`^^a¥^¥¥^aaa
@HWI-EAS443:3:84:773:1290#0/1
CAGGAAACGCTGAGATTGAAGACCTCATTTTCCTGGCACG
+HWI-EAS443:3:84:773:1290#0/1
abbaababbbbabb`aaa`baaaabbbbaabaa`aa]aa_a
@HWI-EAS443:3:84:778:431#0/1
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+HWI-EAS443:3:84:778:431#0/1
aWYQ]YR]_WT^^[]XYZT_ZTXV¥]Y]Y_^]XLQYJRNN
@HWI-EAS443:3:84:812:1375#0/1
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+HWI-EAS443:3:84:812:1375#0/1
`a¥a`a`a`a`¥a_a`[aaY[``aYaTL_]a_VaY[``_`
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+HWI-EAS443:3:84:818:238#0/1
^baUY¥a`]aaaNb_aaba[a_b`ab[abab_``Y_^`
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+HWI-EAS443:3:84:842:133#0/1
abaaab_aaaa_b`Z_a_a_WaX_``_S_U^[_`K¥HX¥
@HWI-EAS443:3:84:895:621#0/1
ATCATAATCACTGAGTTTGAGTTGAGTGCACATTTGGATG
+HWI-EAS443:3:84:895:621#0/1
aaaaaaaa`ab_a_aaa_a_aa]`a¥`^aaa`[_`aY_
@HWI-EAS443:3:84:987:794#0/1
CAGAGGGCAATGATGGATCAAGTAAGAGAAAGTCGAAACC
+HWI-EAS443:3:84:987:794#0/1
Vb]Kb_Z`aNaaaaabb___bbbbabaabbaaUab`]a^b
@HWI-EAS443:3:85:1024:771#0/1
GGAGAGTTTGGCGCCAAGCAAACAATGGCGAAGATGCAAC
+HWI-EAS443:3:85:1024:771#0/1
aV[___[KVY¥TV`TU[P]Z^V]TVSU_^Z]PW]JNUTTXV
@HWI-EAS443:3:85:111:1000#0/1
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+HWI-EAS443:3:85:111:1000#0/1
aaa[aaaaa__^a__`aa`_`^]`___^a__X^]_^`]^Y
@HWI-EAS443:3:85:1138:106#0/1
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+HWI-EAS443:3:85:1138:106#0/1
[b`b[bbabaR]bb[ZS¥`¥ab][X^]H^aXR^R¥ZTR[Q
@HWI-EAS443:3:85:1145:183#0/1
CATCCTCTATTGTTATGCTATTCTGGATTAGTCGTCCA
+HWI-EAS443:3:85:1145:183#0/1
a¥[a]_]Ya__`aa¥^Za^_Z¥V_¥¥[_`_`V_^T¥Y^
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+HWI-EAS443:3:85:1234:313#0/1
¥^ba¥bb`X`abaababXWa_ba[`^[abab`T¥aYbb_b
@HWI-EAS443:3:85:1319:994#0/1
GTGCTTTCTGCTTTTGATGAGAGAAGAAATAAATACCTAG
+HWI-EAS443:3:85:1319:994#0/1
a___aa_[a_Y_`a```__¥^`a^____a`a¥^`_ZW__`
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Ua_abZT^¥S_a`R`_[abbb]_RX]ZL0¥]KU]a]RJ[S
@HWI-EAS443:3:85:1403:1519#0/1
ATGCTATTCTGGATTAGTCGTCCATCATAATCACTGAGTT
+HWI-EAS443:3:85:1403:1519#0/1
abbabbbaa`aa__aba_a_`a`aa0__a]a^aaaa^`__
@HWI-EAS443:3:85:1406:1440#0/1
ATTTCAAACAGCTGCCAGAGGGCAATGATGGATCAAGTA
+HWI-EAS443:3:85:1406:1440#0/1
aab__bab^`a^_a]X___^`^a]^0¥_a`a_`¥H_¥_[^
@HWI-EAS443:3:85:1481:1201#0/1
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+HWI-EAS443:3:85:1481:1201#0/1
`bb_baa_[babaWSbbaaa_a^baa__U`_ab`aa_ZTV
@HWI-EAS443:3:85:1525:964#0/1
AAAGCAGAAAGCACCATCCTCTCTATTGTTATGCTATTCT
+HWI-EAS443:3:85:1525:964#0/1
aa`aa`aaa_aS`[]a`][__`^a^``____a_]____^V^
@HWI-EAS443:3:85:1546:1151#0/1
CGTCCATCATAATCACTGAGTTTGAGTTCAGTGCACATTT
+HWI-EAS443:3:85:1546:1151#0/1
aaaba`a¥X_baa_a¥aaP``a]a¥W¥[__TS`¥a]`_YW
@HWI-EAS443:3:85:1593:1065#0/1
GACCCATTCAAATTACTCCAAAACAGCCAAGTGGTCAGCC
+HWI-EAS443:3:85:1593:1065#0/1
abaa`aZ_`___a_aaa^_a¥X`_aa^_YaW]__[a`YR
@HWI-EAS443:3:85:1681:774#0/1
TGGGTTTTCGACTTTCTTACTTGATCCATCATTGCCCTC
+HWI-EAS443:3:85:1681:774#0/1
``[aba]¥ZX¥bb`aaaa_baaa`a_aa]aa`b[PS`X
@HWI-EAS443:3:85:1744:962#0/1
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+HWI-EAS443:3:85:1744:962#0/1
`¥[¥a_`T_R]]aa`_SYS]^`SSaZS^YY_U]]`Q`T
@HWI-EAS443:3:85:249:834#0/1
CTGTTTTCTTAGGGTCCTTCCCAGCACTGGGATGCTCTTC
+HWI-EAS443:3:85:249:834#0/1
aaaaaabbbbaZaaa_baaaaaa^baaaaa]`_`a`a```^
@HWI-EAS443:3:85:251:954#0/1
AATTTGAATGGGTCTATCCCGACCAGTGAGTACCCTTCCC
+HWI-EAS443:3:85:251:954#0/1
a`baaa`b`aaa]aaaa`aaabaZ¥`^a`_X``___`]`U

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+HWI-EAS443:3:85:256:107#0/1
aaa^[¥[^PW^aaabaa_aaaa`_a___Y¥¥V]Y]^^_]`
@HWI-EAS443:3:85:26:561#0/1
GTAATTTGAATGGGTCTATCCCGACCAGTGAGTACCCTTC
+HWI-EAS443:3:85:26:561#0/1
`R[HS_¥¥X¥_UYN[^[___^Z`U]UN]R^^]XBBBBBBB
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+HWI-EAS443:3:85:293:460#0/1
aba]U¥¥¥VPa`]¥GRWaU[[Y_ZO[VZXRX^_a_`TQWa
@HWI-EAS443:3:85:296:1878#0/1
GCTGCGGTGAAAGGAGTTGGAACAATAGCAATGGAGTTAA
+HWI-EAS443:3:85:296:1878#0/1
aa^aa]_F[Z¥^^a[^X_[]]``aW¥Z^`[[[]_[^XT__
@HWI-EAS443:3:85:302:787#0/1
ATTGCCCTCTGGGCAGCTGTTTGAATTTTCTTTGAGGA
+HWI-EAS443:3:85:302:787#0/1
^M_aba_ab[R]`a]^aW_]^^`UXRaYZ^`a^Ya^¥aP^
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GCACCATCTCTATTGTTATGCTATTCTGGATTAGTCG
+HWI-EAS443:3:85:308:793#0/1
aa^_aba_aaa`a_aa`_a`a`a_aa`a¥`__`^^^a_
@HWI-EAS443:3:85:415:1867#0/1
GTGCTGACCGTGCCAGGAAAATGAGGTCTTCAATCTCAGC
+HWI-EAS443:3:85:415:1867#0/1
aPa^bX]bZVOW`aa^]Y^]``][^W`__`U]a_^_X_
@HWI-EAS443:3:85:432:1036#0/1
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+HWI-EAS443:3:85:432:1036#0/1
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+HWI-EAS443:3:85:435:296#0/1
abbbbbbabbabbababaaaaaaa`a]b`ba``baP]V]a[
@HWI-EAS443:3:85:493:575#0/1
GCTTTCTGCTTTTGTATGAGAGAAGAAATAAATACCTAGAA
+HWI-EAS443:3:85:493:575#0/1
``^`a^^a]`aabaabaaa__[_Y^^`_Z_aa``a_]R¥
@HWI-EAS443:3:85:572:1562#0/1
TGGTGCTTTCTGCTTTTGTATGAGAGAAGAAATAAATACCT
+HWI-EAS443:3:85:572:1562#0/1
aaa_abababbbaa`bab_aababbbaaabaabaaaaa`a
@HWI-EAS443:3:85:594:652#0/1
CTCCTGTTTTCTTAGGGTCTTCCCAGCACTGGGATGCTC
+HWI-EAS443:3:85:594:652#0/1
`_b`a]^^`_]_]_^]Ua`]aaa`¥a]X[``¥ZXZ]Z`]
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+HWI-EAS443:3:85:658:335#0/1
aaabba`a_aaa`aa`a^a_`¥`U`^¥aa^]¥^^_^V¥
@HWI-EAS443:3:85:75:1751#0/1
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+HWI-EAS443:3:85:75:1751#0/1
Y[aa^a]V]^`aaY[_^[UY_X]YXXYZT[SU[J]W][_]
@HWI-EAS443:3:85:779:814#0/1
GTGCTTTCTGCTTTTGATGAGAGAAGAAATAAATACCTAG
+HWI-EAS443:3:85:779:814#0/1
a¥YY]Xaba^_]aaaaUaaT`^^X]_^XY]aa`a^^a_
@HWI-EAS443:3:85:820:1810#0/1
AATCACTGAGTTTGAGTTCAGTGCACATTTGGATGTAGAA
+HWI-EAS443:3:85:820:1810#0/1
a`aabba`a`Wa`_a`a`aa¥]^a_a_`^^Z`_aV^]`
@HWI-EAS443:3:85:865:282#0/1
GAGGTCTTCAATCTCAGCGTTTCCTGGGTTTCGACTTTCT
+HWI-EAS443:3:85:865:282#0/1
aaaa^`aaaa`ba`_a_a_aa`_aa_^¥_a^__^a__^a
@HWI-EAS443:3:85:935:384#0/1
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+HWI-EAS443:3:85:935:384#0/1
a^a^WR]^`a_aYa_aa`_N]Q^YPKSLXX`aa¥]Q^_TZ]
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CTCAAACCTCAGTGATTATGATGGACGACTAATCCAGAATA
+HWI-EAS443:3:86:1081:351#0/1
aa`_Y¥a`aa^]`aabbbaabaaabb_abaa]`[a`a`_
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+HWI-EAS443:3:86:112:513#0/1
ababaaa^b`¥_aUa[``Z`¥Y]_¥^^^Z`W^`^^^Y]X
@HWI-EAS443:3:86:1234:1334#0/1
CTGATTAACCTCATTGCTATTGTTCCAACCTTTTCACCG
+HWI-EAS443:3:86:1234:1334#0/1
abbb_]_¥a_[_ab`a`b_bb`ab^_¥_]_^]aba^a]U_
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+HWI-EAS443:3:86:1259:561#0/1
abbabb`bbbbbbbbb``abbbba`ab_bbaabb]¥baa
@HWI-EAS443:3:86:1262:690#0/1
GCTGCCAGAGGGCAATGATGGATCAAGTAAGAGAAAGTC
+HWI-EAS443:3:86:1262:690#0/1
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@HWI-EAS443:3:86:1557:1010#0/1
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+HWI-EAS443:3:86:1557:1010#0/1
abbbabbabbbbbbYbbaYXb`b[a`bab_a`b__aaa`
@HWI-EAS443:3:86:1580:418#0/1
AGCAAGTGGGCATGACTTTGAAAGGGAAGGGTACTCACTG
+HWI-EAS443:3:86:1580:418#0/1
[_MZ`_X`¥_a¥a_^^`b^_a_]¥WO`aba[VD[V[NZ^

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+HWI-EAS443:3:86:1628:1294#0/1
`bb`ababaababbb`baa`aaabaa^¥b_aa`^aab`a`
@HWI-EAS443:3:86:215:1162#0/1
TGGGTCTATCCCGACCGAGTACCCTTCCCTTTCAAAG
+HWI-EAS443:3:86:215:1162#0/1
abaY`bababbb`baaa``aaa_a_aaa`aaa`_aaa```
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CCAGTGAGTACCCTTCCCTTTCAAAGTCATGCCCACTTGC
+HWI-EAS443:3:86:241:1054#0/1
abbbaab`V[`a`aaaaaabaa`aa^aa`Z]a`a`¥_^
@HWI-EAS443:3:86:247:184#0/1
CAAGCCCATACACACAAGCAGGCAGGCAGGATTTATGTGC
+HWI-EAS443:3:86:247:184#0/1
abaa_aaaaaaaaa`Zaaaaaaaa```[P^_PR]^ZY[P[R
@HWI-EAS443:3:86:261:1799#0/1
CTCAGTGATTATGATGGACGACTAATCCAGAATAGCATAA
+HWI-EAS443:3:86:261:1799#0/1
¥^ba]Zaa`bbabba¥¥^ba```ba_baaaa^_a`_`_]a
@HWI-EAS443:3:86:267:476#0/1
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+HWI-EAS443:3:86:267:476#0/1
]a¥_T[^ba¥¥Z]aaL^`_V^aTa^VTUZ`FRZ__a]N[
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CAGTTGCACATAAATCCTGCCTGCCTGCTTGTGTGTATGG
+HWI-EAS443:3:86:282:1397#0/1
`Z^aaa`abaab_b`bb`^``aa¥`aa`aa^a¥a_``^
@HWI-EAS443:3:86:310:329#0/1
GCATGACTTTGAAAGGAAGGGTACTCACTGGTCGGGATA
+HWI-EAS443:3:86:310:329#0/1
aaaa`a_aaaa`¥]a`aa`a``Ra__`¥^^^W_a_`^W^
@HWI-EAS443:3:86:356:1535#0/1
GACAAGGGTTGCTTATGAAAGAATGTGCAATATCCTCAAA
+HWI-EAS443:3:86:356:1535#0/1
aabb^aa_]_aaa`a`aaaaaaaaaYaaaaaa`a]__`_`
@HWI-EAS443:3:86:367:1306#0/1
CTTTCACCGCAGCACCTGCGGCACCAGACCTTCTGGGAAG
+HWI-EAS443:3:86:367:1306#0/1
QYW_]¥ZV]¥`^ab]ZZOR^ON]ZY¥`Z¥ZZFQWS]SP]
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AGGTCTTCAATCTCAGCGTTTCCTGGGTTTCGACTTTCTC
+HWI-EAS443:3:86:370:1008#0/1
aaa¥baabbabababaaaba_aaaaaa`_a`aa__b`a_a^
@HWI-EAS443:3:86:447:1792#0/1
GGGGTGAATAATGGACGAAGGACAAGGGTTGCTTATGAAAG
+HWI-EAS443:3:86:447:1792#0/1
Za`[_aabab_ababaab`bbbb_W_`^``aabaab_a`
@HWI-EAS443:3:86:486:155#0/1
TTCTCTTACTTGATCCATCATTGCCCTCTGGGCAGCTGTT

+HWI-EAS443:3:86:486:155#0/1
aaa`aaaa^aaaaa_`aaaaaa_¥[^^]a^_¥^]^_^Z^
@HWI-EAS443:3:86:556:65#0/1
GCCACATATCAGAGAACAAGAGCGCTTGTTCGCACCCGAA
+HWI-EAS443:3:86:556:65#0/1
ab`babbaaaa_a`_`_a`aaa`_b^^[_^¥_]_^
@HWI-EAS443:3:86:611:1489#0/1
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+HWI-EAS443:3:86:611:1489#0/1
a]abb`aba^[abb``baaab_Uaaa`_a]Ya``RY^[`
@HWI-EAS443:3:86:682:1021#0/1
GCTTTCTGCTTTTGATGAGAGAAGAAATAAATACCTAGAA
+HWI-EAS443:3:86:682:1021#0/1
aaaaa`_`]`aaaba]`baa`a`¥a``aaaa`aa_aaaaa
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+HWI-EAS443:3:86:734:1555#0/1
a_bbaab^a__aaaaabbbaaaaa`aaaab¥`aU^``U[
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AGAAGGTCTGGTGCCGCAGGTGCTGCGGTGAAAGGAGTTG
+HWI-EAS443:3:86:769:395#0/1
a^_aa_]_ba`T`^^^b___Z___X_¥OSMUZ¥_X¥IWK
@HWI-EAS443:3:86:777:1985#0/1
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+HWI-EAS443:3:86:777:1985#0/1
a^^`aa]aTaaY¥]SY_UZ]aaSSQW`GOXS^U[_^][V]
@HWI-EAS443:3:86:785:1504#0/1
GACGACTAATCCAGAATAGCATAACAATAGAGAGGATGGT
+HWI-EAS443:3:86:785:1504#0/1
abbbbabbbbbba`bba`bbbabababbba`abaaaa0
@HWI-EAS443:3:86:788:683#0/1
GCGCCAAGCAAACAATGGCGAAGATGCAACAGCAGGTCTT
+HWI-EAS443:3:86:788:683#0/1
aaaaaaaaaba_^a_aaa`_^¥]a_]^a_^`^a^_^GY_^
@HWI-EAS443:3:86:81:1940#0/1
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+HWI-EAS443:3:86:81:1940#0/1
^`bba[aa_^`ba_ba`bbaX`Y_``b¥b```bb]aaa]
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CAGAGCATCTGTCGGAAGAATGATTGGTGAATCGGGAGA
+HWI-EAS443:3:86:838:907#0/1
Z¥a]`¥bbbb`¥`^U¥bb¥bbV¥W]T```a_ZQ`ba]a^
@HWI-EAS443:3:86:855:130#0/1
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+HWI-EAS443:3:86:855:130#0/1
_bbabbab`ZQSV`_RPa``aaaaS``^_`aaa```]`_aa
@HWI-EAS443:3:86:894:118#0/1
GTGCTGGGAAGGACCCTAAGAAAACAGGAGGACCCATATA
+HWI-EAS443:3:86:894:118#0/1
aSa__aa`Z_a¥LZV_`_V_]¥VV[`a]a_VYOY]VV^V

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+HWI-EAS443:3:86:953:2016#0/1
a^aXZaa^ba¥¥_aa_b`a`XUT^¥`XQ[_`¥_T]`¥_X
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+HWI-EAS443:3:86:973:766#0/1
`abbZ`ba`b`]a`abbaaa[aaaaa`aZaba`_b_`^YG
@HWI-EAS443:3:87:1028:1724#0/1
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+HWI-EAS443:3:87:1028:1724#0/1
abba¥aab`aa`Z`]aaaa¥`[a`_``__`a_a_WaS_
@HWI-EAS443:3:87:1047:854#0/1
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+HWI-EAS443:3:87:1047:854#0/1
aa^0¥b^_XH`[T`aIab^¥W¥^¥¥Xa`]a`¥ZUTa^YLT
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+HWI-EAS443:3:87:1503:194#0/1
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+HWI-EAS443:3:87:1523:245#0/1
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@HWI-EAS443:3:87:1542:1267#0/1
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+HWI-EAS443:3:87:1542:1267#0/1
_¥¥__b_b`¥P[bVbWQ¥WRYTZZ`Y¥XSa¥UV_aa_`P
@HWI-EAS443:3:87:1682:629#0/1
GCGCCAGGATGCCACAGAAATCAGAGCATCTGTCCGGAAGA
+HWI-EAS443:3:87:1682:629#0/1
`a]`_aa`VLU¥^a_bbb_`Zbaa^a]Za^¥UQ¥a¥V]_Z
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+HWI-EAS443:3:87:1708:953#0/1
`_`UZ`bbbaa`a]``aaaI_a_bba`b_b``b_b`aa_`
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+HWI-EAS443:3:87:1714:1202#0/1
YYa^ababV`¥U^b¥YbW`[ba^bTq[XZ^`a`WY__`^_
@HWI-EAS443:3:87:1788:1740#0/1
AGAGAGGATGGTCTTTCTGCTTTTGTGAGAGAAGAAAT
+HWI-EAS443:3:87:1788:1740#0/1
``__`aa[URaW_S__`_]_¥_`aaS^[W_^V¥Z`^KZTY
@HWI-EAS443:3:87:227:1796#0/1
ATTGTTCCAACCTTTTACCAGCAGCACCTGCGGCACCAG
+HWI-EAS443:3:87:227:1796#0/1
`_^]`aaaabaaaa`aabba¥Xa`^`b`^`[^`¥¥a_Ua`]
@HWI-EAS443:3:87:228:1955#0/1
GGTCAGCACTCATTCTGAGGGGATCAGTTGCACATAAATC

+HWI-EAS443:3:87:228:1955#0/1
_``ab]X````QYa_TWT_````ab]Xa`Raa`ababa]
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AGAGCATCCCAGTGCTGGGAAGGACCCTAAGAAAACAGGA
+HWI-EAS443:3:87:240:1592#0/1
VRZ_a^XZU¥_WXXM]ab]aa¥S¥]Z^aaaa]S``Z^]P
@HWI-EAS443:3:87:397:449#0/1
CTTTCTGCTTTTGGATGAGAGAAGAAATAAATACCTAGAAG
+HWI-EAS443:3:87:397:449#0/1
abbbbbbaababbabbababaaaabbaababaaa`aaabaaa
@HWI-EAS443:3:87:409:1066#0/1
AGAAGAAATAAATACCTAGAAGAGCATCCCAGTGCTGGGA
+HWI-EAS443:3:87:409:1066#0/1
_baaaabaaab_aaaaaa`_`a`a`a```]`_¥a`_a____
@HWI-EAS443:3:87:423:400#0/1
TTTGAGTTCAGTGCACATTTGGATGTAGAATCTCCCGATT
+HWI-EAS443:3:87:423:400#0/1
``aa`bV_a]__aaa_aba`a]a_aS[^WQ[¥____`a^^[
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CTCACTGGTCGGGATAGACCCATTCAAATTACTCCAAAAC
+HWI-EAS443:3:87:466:890#0/1
aa_]`¥ZQ`¥¥_[R_____XOZ^a^^X[^`L_[____`____
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TGTGAGCTGGGTTTTTCATTTGGTCTCATCAGGCTGACCAC
+HWI-EAS443:3:87:522:1761#0/1
aa^ba¥¥`aUaXUaZab`Y]`ZL^bb[H^¥`]aX[T_XaT
@HWI-EAS443:3:87:525:1311#0/1
TGGCGCCAAGCAAACAATGGCGAAGATGCAACAGCAGGTC
+HWI-EAS443:3:87:525:1311#0/1
aaab_b`[_`aa^a`a`aa¥aa`Z[`¥a_aaXa_]a``Y_
@HWI-EAS443:3:87:528:1929#0/1
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+HWI-EAS443:3:87:528:1929#0/1
`aaababaabb`a`aababaaa¥0Laaa]R_aaaaa`_a_
@HWI-EAS443:3:87:593:406#0/1
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+HWI-EAS443:3:87:593:406#0/1
[Z[a`b¥`_ZXZTUUXaba[aa¥]b[^Yaa`PW`^a_aa
@HWI-EAS443:3:87:623:733#0/1
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+HWI-EAS443:3:87:623:733#0/1
a_[^`^a`a`a`a`a`_a^_]aa_____]a]^^_a`X``
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+HWI-EAS443:3:87:633:808#0/1
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@HWI-EAS443:3:87:719:538#0/1
CATTCAAGTTGGAATGCCAAATCATGATATGAGTAAGACC
+HWI-EAS443:3:87:719:538#0/1
a^aaaa¥a^b^ZV^Wa`^a`_W¥[]_``a^a_aP`P_UYU

@HWI-EAS443:3:87:774:1823#0/1
GAAATAAATACCTAGAAGAGCATCCCAGTGCTGGGAAGGA
+HWI-EAS443:3:87:774:1823#0/1
]``_V¥_a`_Z`^`ZSV¥ababbbZQ^^T__aa```a¥^a
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+HWI-EAS443:3:87:807:522#0/1
ababbabaabaa`aababbaabaaaa`aaa_aaabaaaa
@HWI-EAS443:3:87:925:1378#0/1
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+HWI-EAS443:3:87:925:1378#0/1
a`a_abbbaabaabaaaa^a_a`_]S_¥_[`¥a`¥V`]__
@HWI-EAS443:3:87:941:753#0/1
ATGGTGCTTTCTGCTTTTGATGAGAGAAGAAATAAATACC
+HWI-EAS443:3:87:941:753#0/1
abbb`babbbabbabbbbabaaa_baabbaab`aabb``
@HWI-EAS443:3:87:957:217#0/1
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+HWI-EAS443:3:87:957:217#0/1
]aab¥aa`[aYXTY`]XZ]¥a¥¥¥a``a`dWG¥^`_`^ZS
@HWI-EAS443:3:88:1126:243#0/1
TGAAAGGGAAGGGTACTCACTGGTCGGGATAGACCCATTC
+HWI-EAS443:3:88:1126:243#0/1
aba``aaa`_aa`V`_a``__a`V`_a`^a`_`YV¥`^]]
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+HWI-EAS443:3:88:1137:309#0/1
ab^``^a`__]^`^`_aaaa`^`_aaaa^`_dWW`_aX`]^`_
@HWI-EAS443:3:88:115:196#0/1
ATAATCACTGAGTTTGAGTTCAGTGCACATTTGGATGTAG
+HWI-EAS443:3:88:115:196#0/1
aabbbbaaab_b`baaab`aa_aYaaaa_a`a^`_`Q`_
@HWI-EAS443:3:88:1203:278#0/1
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+HWI-EAS443:3:88:1203:278#0/1
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+HWI-EAS443:3:88:1254:141#0/1
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+HWI-EAS443:3:88:1322:811#0/1
__bbabbba[aUR__aa`babb_baa_J_HXa]]]Zabb
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@HWI-EAS443:3:88:1413:1202#0/1
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+HWI-EAS443:3:88:1413:1202#0/1
a`0_WMZ`X]aa_a^]`a^X¥a]T]WR_`a__`a_S`a^_
@HWI-EAS443:3:88:1420:1031#0/1
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+HWI-EAS443:3:88:1420:1031#0/1
Z_`aZJabbbbbbb`_babababaabb`bb_bbabbb¥b`
@HWI-EAS443:3:88:1440:197#0/1
CTCCTGTTTTCTTAGGGTCTTCCCAGCACTGGGATGCTC
+HWI-EAS443:3:88:1440:197#0/1
abV¥Z^_ab]R__a^X^]`^aa_aWaY`_^^_a[^Z^bN[[
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+HWI-EAS443:3:88:1487:366#0/1
HXaab_¥_``[¥_aZ_RTXZTbbbbWPV]b^R`ZQGO_a`
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+HWI-EAS443:3:88:1577:817#0/1
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+HWI-EAS443:3:88:1707:1308#0/1
ab]a^abb`a]]Z]^`[[ab_b^Z]Y_X_a`aa`ZNV[```[
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+HWI-EAS443:3:88:226:781#0/1
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]a`babb`aaaa`a_`_`_aaa`_`_aZ_`_`_`^`^`^`^`_
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+HWI-EAS443:3:88:287:1889#0/1
Xab`_a_babb_bbaa`¥H¥b`ab_baababaabbb`SKb
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+HWI-EAS443:3:88:37:2002#0/1
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ab_aaZ]aaMa_a¥^^^a_]aaa^_a_a^a^¥aa^TM`YY
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+HWI-EAS443:3:88:637:280#0/1
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@HWI-EAS443:3:88:726:1973#0/1
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+HWI-EAS443:3:88:726:1973#0/1
a]N^`__aa¥R[a_aVZ]^_[LT_]NUNRNJ¥S¥YO[[FO
@HWI-EAS443:3:88:754:1827#0/1
AATCACTGAGTTTGAGTTCAGTGCACATTTGGATGTAGAA
+HWI-EAS443:3:88:754:1827#0/1
abaaY`aa_a]aa`_`_`a__`_`^`a_`^]a__^`__a
@HWI-EAS443:3:88:772:684#0/1
TTCCCTTTCAAAGTCATGCCCACTTGCTACTGCAAGCCCA
+HWI-EAS443:3:88:772:684#0/1
[_`_`aa]^0^bbTUT[bSabaaba[]Iba[a]LUa_`X]]
@HWI-EAS443:3:88:780:1289#0/1
GCTGGGTTTTCATTTGGTCTCATCAGGCTGACCACTTGGC
+HWI-EAS443:3:88:780:1289#0/1
`Z`_S_N_U`¥¥]^[]¥P¥`a_a[¥V¥][`[Z____^SWU]
@HWI-EAS443:3:88:905:477#0/1
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+HWI-EAS443:3:88:905:477#0/1
abb_bbbbbabbbba_baaa_a_b`bbbbbbba_`babb^b
@HWI-EAS443:3:88:929:1051#0/1
CTTCCGACAGATGCTCTGATTTCTGTGGCATCCTGGCGCT
+HWI-EAS443:3:88:929:1051#0/1
_`^TTYX_T¥_ZT]Z^]]QZ]`_`_`RV_VXYSRZX_YWVW
@HWI-EAS443:3:88:969:116#0/1
GGAGGGGTGAAAATGGACGAAGGACAAGGGTTGCTTATGA
+HWI-EAS443:3:88:969:116#0/1
abVb_bb[bb^b^baababV_ba`_`a]`ab_`ba`aabb`
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+HWI-EAS443:3:88:975:1428#0/1
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+HWI-EAS443:3:88:978:1053#0/1
a[babaa]][_b`babbbbabab^[_`_`_`aWbaaaaaWa
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+HWI-EAS443:3:89:1007:970#0/1
aaa]aba¥abaZ^_a¥aUNaa__XR_`¥V_`^_UQ[UVGS
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+HWI-EAS443:3:89:1052:473#0/1
abababbbabba`ababbaabbababbaab`aba`aa`_`
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+HWI-EAS443:3:89:1121:924#0/1
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+HWI-EAS443:3:89:1170:855#0/1
abaaaba_ab` `aab^`a`aa__aaa`aaa`Waa__^____
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+HWI-EAS443:3:89:1181:306#0/1
`babbaabbbbaaabaabbbbababaabbNaaaaaZabaaa
@HWI-EAS443:3:89:1268:1052#0/1
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+HWI-EAS443:3:89:1268:1052#0/1
^]TWZ`Z^^V_YW¥Y`¥aaa[UP¥Xa_^^^aU_U`_aU
@HWI-EAS443:3:89:1396:692#0/1
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+HWI-EAS443:3:89:1396:692#0/1
`` `bbb_b` `Zbb_bb_bUa[`bb^abaaa_ab` aaba_
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+HWI-EAS443:3:89:1514:589#0/1
a_` `bbb`abaabb_`bb` `bbb`]__abababab`bbbb
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+HWI-EAS443:3:89:1591:128#0/1
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+HWI-EAS443:3:89:1654:1219#0/1
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+HWI-EAS443:3:89:252:179#0/1
a`aab[aa` `a`_aaaaaaaa`aWa_^^¥^^X_¥W¥____
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+HWI-EAS443:3:89:292:1020#0/1
abaaaaaYaZ^`^^a`]a_a`a`^¥]_]_^_^^¥WU¥
@HWI-EAS443:3:89:298:1017#0/1
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+HWI-EAS443:3:89:298:1017#0/1
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@HWI-EAS443:3:89:325:75#0/1
GATTAGTCGTCCATCATAATCACTGAGTTTGAGTTCAGTG
+HWI-EAS443:3:89:325:75#0/1
`IYTW` [VXNUTZ_]ZVO^[[¥U` [HZL[X_SUOWXPPS`

@HWI-EAS443:3:89:352:1836#0/1
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+HWI-EAS443:3:89:352:1836#0/1
aaab^babab^ab[]a_Xaaaaaaaaab_aa_a`TVQ`a__
@HWI-EAS443:3:89:452:1256#0/1
AGAGGATGGTGCTTTCTGCTTTTGATGAGAGAAGAAATAA
+HWI-EAS443:3:89:452:1256#0/1
^a^a]Z¥`aT[ZX¥YDP^aa[_aa__^W__`^^_U_T]``
@HWI-EAS443:3:89:559:1836#0/1
AAATGGACGAAGGACAAGGGTTGCTTATGAAAGAATGTGC
+HWI-EAS443:3:89:559:1836#0/1
abaa`baaaa^Z_aaaa`_W`aaa`aaa`aaa_a_`^]`
@HWI-EAS443:3:89:60:1786#0/1
AATCACTGAGTTTGAGTTCAGTGCACATTTGGATGTAGAA
+HWI-EAS443:3:89:60:1786#0/1
_aZ_YaYVUWL_V[NOTS]¥YL_¥XYTZ^^^M[LSRWU[¥
@HWI-EAS443:3:89:655:1062#0/1
GAATGATTGGTGAATCGGGAGATTCTACATCCAAATGTG
+HWI-EAS443:3:89:655:1062#0/1
__]aa`aaaa^`_VY``]`¥`_^`^`^`Za`]`_^W`
@HWI-EAS443:3:89:663:726#0/1
TGCTTTCTGCTTTTGATGAGAGAAGAAATAAATACCTAGA
+HWI-EAS443:3:89:663:726#0/1
]`T^_¥`¥`^`^`bbbb¥^^¥]¥aN¥`Y_VVababababbbb
@HWI-EAS443:3:89:723:123#0/1
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+HWI-EAS443:3:89:723:123#0/1
XTbb`____`[`Y^abb`]bL`bbababa]b_babab^Y`a
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+HWI-EAS443:3:89:814:1916#0/1
a`aabb`bab_a`_a`baa^Y`^`_]a_a_U`_^X[`¥_
@HWI-EAS443:3:89:907:1033#0/1
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+HWI-EAS443:3:89:907:1033#0/1
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@HWI-EAS443:3:89:913:931#0/1
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+HWI-EAS443:3:89:913:931#0/1
ab`aabaaaa`aaa^_aabaa`a_a`a`a`a`_a`V_]_
@HWI-EAS443:3:89:977:721#0/1
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+HWI-EAS443:3:89:977:721#0/1
Q_ZZV]RY^STZ[`]^[]XY_P_`_X[^[¥_]¥WRW`a]
@HWI-EAS443:3:8:1082:149#0/1
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+HWI-EAS443:3:8:1082:149#0/1
`__ab¥[[]]ZS^`XMa]X_YT]VMXIPYT_BBBBBBBBBB
@HWI-EAS443:3:8:1082:523#0/1
CCAGTGCTGGGAAGGACCCTAAGAAAACAGGAGGCCCAT

+HWI-EAS443:3:8:1082:523#0/1
_]^[a]` `]]_aaaa_X`V`a_RR¥`¥_]____]aa¥PPPZ]
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CCCTTGTCCTTCGTCATTTTCACCCCTCCAGAAATTCG
+HWI-EAS443:3:8:122:997#0/1
abbbabbbbaabbbabababbbabba`aa`aaabaaaaa`Y
@HWI-EAS443:3:8:1285:69#0/1
CATGACTTTGAAAGGGAAGGGTACTCACTGGTCGGGATAG
+HWI-EAS443:3:8:1285:69#0/1
abbab`bbbabbbabb`abbb[a]`Xaabba]`bba^]_a
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+HWI-EAS443:3:8:1373:1623#0/1
ab]`¥baabbaaaa^aaaaaW`_aa[¥_`a¥_¥a`]a¥^
@HWI-EAS443:3:8:1399:1029#0/1
AGCGTTTCCTGGGTTTCGACTTTCTTACTTGATCCATC
+HWI-EAS443:3:8:1399:1029#0/1
Yabbbba____`]_ab¥` `Xaa`V]Yaaa_a[aaaNZ`_T
@HWI-EAS443:3:8:1416:539#0/1
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+HWI-EAS443:3:8:1416:539#0/1
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@HWI-EAS443:3:8:1457:606#0/1
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+HWI-EAS443:3:8:1457:606#0/1
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+HWI-EAS443:3:8:1473:2028#0/1
abaaaba^`baYZ¥__aU_^P`_aa_W^XZ^]_] [ZU^]_
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GGAGGGGTGAAAATGGACGAAGGACAAGGGTTGCTTATGA
+HWI-EAS443:3:8:149:827#0/1
ab` `aabXa` `^aa` `a`Xa_] ^` ` `_] ^aY` ` `^`_
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+HWI-EAS443:3:8:1649:931#0/1
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@HWI-EAS443:3:8:1651:527#0/1
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+HWI-EAS443:3:8:1651:527#0/1
aaaababbbababaaa____baa¥Ua_]_^a` `[^^`X_Ra
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+HWI-EAS443:3:8:1790:1273#0/1
`babbabbbababab`bb`ababb`S]ab`ba_Z`bb`a
@HWI-EAS443:3:8:193:314#0/1
GCTTTCTGCTTTTGATGAGAGAAGAAATAAATACCTAGAA
+HWI-EAS443:3:8:193:314#0/1
O^`^¥`IU`Za^`_X_bbbaab` `bbbb_]_bbaYbabb`

@HWI-EAS443:3:8:203:1546#0/1
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+HWI-EAS443:3:8:203:1546#0/1
U[baab] []b_ababbbbababaabbbba^abaa^[aba
@HWI-EAS443:3:8:203:312#0/1
ACACAAGCAGGCAGGCAGGATTTATGTGCAACTGATCCCC
+HWI-EAS443:3:8:203:312#0/1
aaa[^UUaa`Z^¥a`WL¥`RFW¥STXQUVPXOQ[Z^_TS[
@HWI-EAS443:3:8:209:118#0/1
GGAGGGGTGAAAATGGACGAAGGACAAGGGTTGCTTATGA
+HWI-EAS443:3:8:209:118#0/1
aa_^b_VT^H^ZY¥_^¥]_aXSVX]`RWa[UX^OVVY^Y
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+HWI-EAS443:3:8:229:1372#0/1
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+HWI-EAS443:3:8:238:1893#0/1
`aaaaUGaaaa_aaa¥a¥aQ¥_`Y¥U_a_`_¥¥]ZWS[
@HWI-EAS443:3:8:267:362#0/1
CAGGCAGGCAGGATTTATGTGCAACTGATCCCCTCAGAAT
+HWI-EAS443:3:8:267:362#0/1
a_`ba`aa```X]`_a[V]X]]N]`aVXLVP[_¥a]]_`
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+HWI-EAS443:3:8:36:1450#0/1
^Z_bVa[a¥a`aaa`aX_a^UZ`¥[[_`_aV^X[YYa¥_¥
@HWI-EAS443:3:8:393:740#0/1
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+HWI-EAS443:3:8:393:740#0/1
aaaaabaaaaaa[aa_¥T0¥a`X^]_`a_]Za^[a]`G`a
@HWI-EAS443:3:8:42:1235#0/1
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+HWI-EAS443:3:8:42:1235#0/1
_aa__`_^`X_`^Y`aU^^¥`Sa[X`^Y`R^¥¥¥]^B
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+HWI-EAS443:3:8:452:1960#0/1
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+HWI-EAS443:3:8:480:765#0/1
¥PN¥a¥^^_]]`aa¥a_]_Q[^aY[U`VO¥¥a¥^]WNW¥Y
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+HWI-EAS443:3:8:647:976#0/1
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+HWI-EAS443:3:8:732:757#0/1
ababbbb`abbaabbaabaaaa`a_bababaa_b`Wa]`
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+HWI-EAS443:3:90:1377:1648#0/1
`_U_aaba[`_JXbaaab¥`aaba[¥a`Gaba]X_^aa[Y
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+HWI-EAS443:3:90:1607:654#0/1
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+HWI-EAS443:3:90:260:207#0/1
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+HWI-EAS443:3:90:347:363#0/1
ababa`ab]abaaaaaaaa_aaaaa`aa`_`aaa`W`aa__
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+HWI-EAS443:3:90:374:565#0/1
aa[a_a^]aaa`_a_a`^`a`_`_Z^a`_`^`_^^`_]`
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+HWI-EAS443:3:90:479:1978#0/1
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+HWI-EAS443:3:90:595:655#0/1
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a_aba_aaaaa`aaa`abaaaY` `[ZUZV[_[[`L^_ON
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+HWI-EAS443:3:91:1076:23#0/1
`]^_¥aa`_`^^a_aa`U^`a_`^X^`_Z_^`V_aT`¥_
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+HWI-EAS443:3:91:1091:621#0/1
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]WP^b_Pa_]abb`_baba_babbOUaa]`^_a]b__Y`a
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+HWI-EAS443:3:91:1136:374#0/1
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+HWI-EAS443:3:91:1180:1052#0/1
_`¥¥^bbZ^^Z¥a`a_b_`aaabbT_T_a``ab^Y¥aaa`
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+HWI-EAS443:3:91:138:1285#0/1
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+HWI-EAS443:3:91:1662:864#0/1
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+HWI-EAS443:3:91:1668:1682#0/1  
a^\_aaabb\_baaZaaaa``¥aaaaa¥aa]a]aaa\_]`\_`  
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a`ab`\_`a`Va\_¥¥\_a^\_W\_a`^^`^aa```Y^`¥X][`  
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`RX\_a^]^aa\_\_`a`¥¥a`a[¥\_SS`]\_a\_\_\_\_Y[\_^]  
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a`aaa`aaYa`a\_\_ab\_aaP`\_X\_a`a``\_]`¥X\_a\_  
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^Zbaba]aa^`\_a\_\_^aaaa¥\_a\_aa[``]`\_^\_Ua\_^]  
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+HWI-EAS443:3:92:1526:351#0/1  
aba¥bb\_R\_\_aR`YXHaaaZG¥aa`XZ\_a`[Z`a\_^X\_a¥  
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Z[XV\_[\_[]\_¥[[V\_\_XXb^W]X\_H\_WJXX\_`ab^aa`¥]  
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+HWI-EAS443:3:92:999:396#0/1  
R\_`\_VZUXV¥¥RY^\_\_Y\_ba\_aaa\_I`¥abbbVb]]Y\_b  
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aaab^a[`aa]¥X`a^\_Y^\_aUY```aa]S\_\_YQ\_]`\_]\_a  
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+HWI-EAS443:3:93:1212:892#0/1  
^S\_`]¥a`a]^WV¥¥`]Wa]\_]¥ZUW\_Q]\_ZY]\_^¥RYLS  
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CTTCCGACAGATGCTCTGATTTCTGTGGCATCCTGGCGCT  
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a\_b\_`ba\_bbbaaaaba¥aa``\_aaa\_UY`aab\_^U\_`\_a  
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+HWI-EAS443:3:93:161:431#0/1  
^\_Yb¥VW[]a\_Y]¥^a^QRa\_baa\_¥`a\_\_]^U\_]PV\_]`  
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GTGCTTTCTGCTTTTGTGAGAGAAGAAATAAATACCTAG  
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+HWI-EAS443:3:93:168:1423#0/1  
aa`aaa]aa^aaa`Za``^\_aa\_[a]a^`〕\_\_U\_]TNOW  
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+HWI-EAS443:3:93:230:1554#0/1  
a\_aaaaT`^`ZVXY^X\_^TY¥QVQGY¥U]]]RTPZT[B  
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a`[b\_OY]a\_\_PZ`aP¥aKaP`\_a`YaJQ`\_`¥aa[UD[a  
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+HWI-EAS443:3:93:289:1001#0/1  
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+HWI-EAS443:3:93:540:459#0/1  
aaaaa`^`a\_a\_\_`aa]aaaa`aaa`\_]\_\_a\_\_``^\_`^`  
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TCATGATATGAGTAAGACCTGCTGTTGCATCTTCGCCATT  
+HWI-EAS443:3:93:543:1869#0/1  
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+HWI-EAS443:3:93:588:809#0/1  
^\_^^^`aab[``\_\_a\_\_[\_``\_\_^[¥ZRS]```¥YV¥W  
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+HWI-EAS443:3:93:784:813#0/1  
`\_]\_aa`a`Uaab`a^`]b`aQ[a`aY\_SS^a\_aZ]^\_[]  
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+HWI-EAS443:3:93:845:882#0/1  
`]^[^]`a`Za`ZaVa[R]\_aa[^]`\_^¥^\_^]\_^`Y]a  
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+HWI-EAS443:3:93:887:680#0/1  
^^`P¥XJZQW\_b`Y]¥a]T\_¥^¥[P¥a[¥PPIXXYZTR]  
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+HWI-EAS443:3:94:103:27#0/1  
aaaa`a`a`\_][a`a\_]^^^S`\_\_]^^\_]^Y]\_\_\_Z]]^]X  
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+HWI-EAS443:3:94:1100:509#0/1  
\_a0¥b¥Sb\_aMGVT`[X]X]P`I\_[UJGHTLZa^WVZUR\_  
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+HWI-EAS443:3:94:1125:135#0/1  
\_I^[0\_aa`[^`a\_]aaa\_S[```Y`SU``U``\_a]a\_QF  
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+HWI-EAS443:3:94:1333:939#0/1  
a\_bb`babbbbaaaaa`aaaa\_a\_aaaa`aa^¥aaa]\_a  
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+HWI-EAS443:3:94:1425:1735#0/1  
¥Y````ba`a[SVWW`\_U\_^]T¥aa¥MZ\_b¥^```¥VYW]  
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CCCTTGTCCTTCGTCCATTTTCACCCCTCCAGAAATTCG  
+HWI-EAS443:3:94:150:815#0/1  
aaaaba\_`aaaa[aaYaa`a```\_\_a^`\_\_a¥]]\_Z]]]  
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+HWI-EAS443:3:94:1531:609#0/1  
\_P¥^ZUaaX````]\_\_`PUUYU`\_UX]]\_UXR]]S^XX[Y  
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CGCCAAGCAAACAATGGCGAAGATGCAACAGCAGGTCTTA  
+HWI-EAS443:3:94:1769:827#0/1  
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+HWI-EAS443:3:94:1782:1232#0/1  
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ACCTGAATGATGCCACATATCAGAGAACAAGAGCGCTTGT  
+HWI-EAS443:3:94:1783:241#0/1  
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+HWI-EAS443:3:94:181:1270#0/1  
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+HWI-EAS443:3:94:315:114#0/1  
aab[[`a`\_`aa\_`a^^`aZ\_a\_¥Z^\_`\_`Z\_P^[Z[^W  
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+HWI-EAS443:3:94:399:1507#0/1  
`a]^^a\_`\_`aZ``\_`¥aaaWQZ^[a^`\_`¥\_¥¥¥\_]\_\_¥]  
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a`a\_a¥^¥¥^`\_¥^`^Z]¥`^`\_\_[Z\_[R`¥^^W^\_UR[Z  
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+HWI-EAS443:3:94:468:171#0/1  
abbabaaaaabbaaaaZbaaa`\_`aa`a\_`^`\_`aY\_\_`\_`  
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+HWI-EAS443:3:94:508:413#0/1  
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+HWI-EAS443:3:94:604:907#0/1  
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GGCTTGCAGTAGCAAGTGGGCATGACTTTGAAAGGGAAGG  
+HWI-EAS443:3:94:659:145#0/1  
a`aa`\_`aa¥]]S)``¥`^^[``^¥\_```X¥[\_\_\_\_WZ\_¥  
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`TS\_¥baWQ[ `ZY\_\_Z^]Za^VV^¥[¥^]YabP`RbUZYa  
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+HWI-EAS443:3:94:850:1383#0/1  
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+HWI-EAS443:3:94:857:1283#0/1  
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+HWI-EAS443:3:94:886:427#0/1  
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CAAGTGGTCAGCCTGATGAGACCAAATGAAAACCCAGCTC  
+HWI-EAS443:3:94:900:1446#0/1  
abba^S¥]V\_a`[aaa`aa\_`H` `a\_a\_]aaZ\_`Ya\_LTY  
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GTCCTCCTGTTTTCTTAGGGTCCTTCCCAGCACTGGGATG  
+HWI-EAS443:3:95:1048:1424#0/1  
aUa]` `b` `a`aaaa\_X¥PZZ`[ `^a\_a` ` `¥a`a[\_aa  
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+HWI-EAS443:3:95:1154:188#0/1  
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abaaab`b`abaabaaa`a`a\_aabaaa\_aaZ`b\_¥\_ZZ]  
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+HWI-EAS443:3:95:1328:41#0/1  
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+HWI-EAS443:3:95:1339:383#0/1  
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a`VaaXQ]b\_QS\_ZI^0WaZ`a`[`GT\_XYZQI\_]I¥VX^  
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W\_`\_b\_^a^TR\_bX]`a\_[U]YGWb¥aaaaS0¥b^G^U^H  
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V\_b\_¥a\_[bb\_a\_a¥\_bb\_a¥aa`baababY`Ybbaaaaa  
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CATGACTTTGAAAGGGAAGGGTACTCACTGGTCGGGATAG  
+HWI-EAS443:3:95:1748:1573#0/1  
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+HWI-EAS443:3:95:432:619#0/1  
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ab`Z`]Y\_U]aa^a`\_\_a`a^^`a\_\_a`]`^`a[\_`[[^  
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+HWI-EAS443:3:95:572:311#0/1  
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+HWI-EAS443:3:95:596:1099#0/1  
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+HWI-EAS443:3:95:600:213#0/1  
SV¥bY`I[aa]^baaa`a^LT^¥Ta\_\_T]^`[]`^WXX\_  
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+HWI-EAS443:3:95:632:702#0/1  
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aa¥a[```aaa`^]a_aaY`aa_``]a`^W``__^__]
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GGCATGACTTTGAAAGGGAAGGGTACTCACTGGTCGGGAT
+HWI-EAS443:3:98:460:367#0/1
ab`bbaa_abbaaaaaab`aaaaSa`aaa^aaaZaa``__`
@HWI-EAS443:3:98:492:1274#0/1
TCAACACTTCCCAGAAGGTCTGGTGCCGCAGGTGCTGCGG
+HWI-EAS443:3:98:492:1274#0/1
¥`aa_``aaa``^``aa`_]STa¥^_````U_¥__Z`]`
@HWI-EAS443:3:98:507:1035#0/1
ATCAGTTGCACATAAATCCTGCCTGCCTGCTTGTGTGTAT
+HWI-EAS443:3:98:507:1035#0/1
aaaab_aaaa_aaXX]aaa¥`____``^a`_``_[`V_W¥`
@HWI-EAS443:3:98:546:1191#0/1
TGCTTTCTGCTTTTGATGAGAGAAGAAATAAATACCTAGA
+HWI-EAS443:3:98:546:1191#0/1
_b^Ua_abbb¥aaabbabaabbbbb`bNbbaaabTPaa```
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CTGAACCTCAAACCTCAGTGATTATGATGGACGACTAATCCA

+HWI-EAS443:3:98:730:1352#0/1
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ATAACAATAGAGAGGATGGTGCTTTCTGCTTTTGATGAGA
+HWI-EAS443:3:98:757:270#0/1
a`^]a¥aaabababaaab^N¥R¥`aSa^Z^aaaa_`[Xa]
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CACATTTGGATGTAGAATCTCCCGATTCCACCAATCATTC
+HWI-EAS443:3:98:785:1664#0/1
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@HWI-EAS443:3:98:870:445#0/1
ATTTGAATGGGTCTATCCCGACCAGTGAGTACCCTTCCCT
+HWI-EAS443:3:98:870:445#0/1
ab]ab^X_`^^Xa^b_`Z^XaVNU[Zba^Z`PQ_`TFU_a
@HWI-EAS443:3:98:878:725#0/1
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+HWI-EAS443:3:98:878:725#0/1
aaabbbb]ba_b`aaaabba¥ab`aaaab`^aaaaaa]a`
@HWI-EAS443:3:99:1013:287#0/1
ATTGCCCTCTGGGCAGCTGTTTAAAATTTTCTTTGAGGA
+HWI-EAS443:3:99:1013:287#0/1
abaa]_abbbaa```b`baaabba__aaaa¥¥aaaa`a__
@HWI-EAS443:3:99:1022:775#0/1
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+HWI-EAS443:3:99:1022:775#0/1
^babbaabb`abbabaabbb``ab``bbba`a`b`b`abb
@HWI-EAS443:3:99:108:1144#0/1
AAGCGCTCTTGTCTCTGATATGTGGCATCATTCAGGTTG
+HWI-EAS443:3:99:108:1144#0/1
``^[_a`X_ab^a_a_aaa`^a`^_]`YX^a_¥_^_Y_^
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+HWI-EAS443:3:99:1097:1500#0/1
a_OV¥ba[`_b[^aaaXaXbb`a_a[a]_a^a`_^aWQVY
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+HWI-EAS443:3:99:1158:790#0/1
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@HWI-EAS443:3:99:1373:1017#0/1
TAACAATAGAGAGGATGGTGCTTTCTGCTTTTGATGAGAG
+HWI-EAS443:3:99:1373:1017#0/1
aY_``ab¥bUbabb`a_`0`¥aabHa^[]`a__^^^_¥Wa
@HWI-EAS443:3:99:1390:736#0/1
ACCTGCTGTTGCATCTTCGCCATTGTTTGCTTGGCGCCAA
+HWI-EAS443:3:99:1390:736#0/1
a`_a``aaJ[_[a_]R_TRUU_^^M_¥_QVTUFVFPNTSZ
@HWI-EAS443:3:99:1415:1866#0/1
CACTCATTCTGAGGGATCAGTTGCACATAAATCCTGCCT
+HWI-EAS443:3:99:1415:1866#0/1
Ua^bbabaV^a[babaaaa`a[ab[bKb[bb`b`U`b]Ub

@HWI-EAS443:3:99:1472:148#0/1
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+HWI-EAS443:3:99:1472:148#0/1
_abb¥M` `` `a`a`[\`ab_b_ab]^aa^aYZR_`]MZ`^
@HWI-EAS443:3:99:1482:344#0/1
TCCTGGGTTTCGACTTTCTTACTTGATCCATCATTGCC
+HWI-EAS443:3:99:1482:344#0/1
ab]bba¥ab]P[_V_bbabab`b_ba`]ba]^aa``_aN
@HWI-EAS443:3:99:1610:694#0/1
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+HWI-EAS443:3:99:1610:694#0/1
aba_abbab_abb``babaaabb_a`aa]abaaZaaaab
@HWI-EAS443:3:99:1632:1047#0/1
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+HWI-EAS443:3:99:1632:1047#0/1
`___b_RPa`Uaba¥^bbaZaaY]]Y`_]`[]XaTR_a_a
@HWI-EAS443:3:99:170:504#0/1
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+HWI-EAS443:3:99:170:504#0/1
^`a^]_S`XSYb``baaaY^ba_`V_] [V_] [Y^a`]__`
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+HWI-EAS443:3:99:224:1279#0/1
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@HWI-EAS443:3:99:253:764#0/1
CTAATCCAGAATAGCATAACAATAGAGAGGATGGTGCTTT
+HWI-EAS443:3:99:253:764#0/1
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@HWI-EAS443:3:99:272:658#0/1
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+HWI-EAS443:3:99:272:658#0/1
aa`Z`]``b_`[a]``bY[`WU``a_aSXaa¥^T]Z¥`Y`
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+HWI-EAS443:3:99:278:850#0/1
aa]SZ``_a`^a^a``_a^¥a¥_X`]]__`_`__^__W¥
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+HWI-EAS443:3:99:489:1836#0/1
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@HWI-EAS443:3:99:500:1548#0/1
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+HWI-EAS443:3:99:500:1548#0/1
V_bb_b`TZb_IW_¥^_]____a_abb]_Z¥[baab``a`_
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+HWI-EAS443:3:99:546:1721#0/1
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@HWI-EAS443:3:99:569:396#0/1
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+HWI-EAS443:3:99:569:396#0/1
aY`b^Ub^WaZa^¥_a¥H`¥_adW`a____a]¥^ZU_a]]^
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+HWI-EAS443:3:99:713:1451#0/1  
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+HWI-EAS443:3:99:720:1066#0/1  
X\_X]\_\_\_\_`¥]HX\_\_^^`\_^aaa\_Xaa]aab]YabZ\_a]\_a  
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+HWI-EAS443:3:99:798:742#0/1  
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+HWI-EAS443:3:99:810:1827#0/1  
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+HWI-EAS443:3:99:930:294#0/1  
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+HWI-EAS443:3:99:953:1811#0/1  
¥baaXbbab¥b¥aa`aabbbaababR^babb^S¥\_bWbaa  
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+HWI-EAS443:3:9:1008:267#0/1  
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+HWI-EAS443:3:9:1169:160#0/1  
`SV\_N\_ZRZ¥\_¥HV^¥SZ^]¥VV^YWRRTTS\_V]R^BBBB



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+HWI-EAS443:3:9:1380:1017#0/1  
`V` [ ` []X\_[V`SRVRW[V^\_¥VVQW^\_¥WVWSRRVRNRV  
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+HWI-EAS443:3:9:155:656#0/1  
aaaaa\_a`baaaa\_aaa`aa`\_]\_`aZa^`\_^`]\_\_\_^  
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+HWI-EAS443:3:9:162:986#0/1  
a\_G[bbbabba`aabab\_abaaba`baYaaaa]`aa`a`\_  
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CTCACTGGTCGGGATAGACCCATTCAAATTACTCCAAAAC  
+HWI-EAS443:3:9:23:1380#0/1  
abababb]]^^b`Saa^aaa`aaa\_aaZaab`aaaaaV  
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+HWI-EAS443:3:9:273:125#0/1  
\_b]abbabaXK¥aa`ZaaWW]^aX`^a\_X`\_a`\_^\_0[Y  
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+HWI-EAS443:3:9:482:448#0/1  
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+HWI-EAS443:3:9:614:1289#0/1  
a`[`a¥S`aa]^ba\_`Q`\_^\_Ya[ ]`a\_\_^¥`^]aa]aa  
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+HWI-EAS443:3:9:634:493#0/1  
\_a`baXabbb\_baaa^aab¥b]aa^`\_G¥ZQaZaX`GXSa  
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AGGATTTATGTGCAACTGATCCCCTCAGAATGAGTGCTGA  
+HWI-EAS443:3:9:644:1501#0/1  
`a`Q`aa`VYU¥[\_`\_\_`X^]\_¥`¥ZZ`UZQVZRL[TZW]  
@HWI-EAS443:3:9:647:804#0/1  
CAGCTGCCAGAGGGCAATGATGGATCAAGTAAGAGAAAG  
+HWI-EAS443:3:9:647:804#0/1  
a\_a\_\_a\_a`\_a`a^`\_`aaa`a\_]U\_a]aUa¥a^`^¥¥¥  
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CTGCTGTTGCATCTTCGCCATTGTTTGCTTGCGCCAAAC  
+HWI-EAS443:3:9:697:1008#0/1  
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@HWI-EAS443:3:9:727:838#0/1  
GAATGATGCCACATATCAGAGAACAAGAGCGCTTGTTTCGC  
+HWI-EAS443:3:9:727:838#0/1  
a^aUZ¥¥GXZbSba]`Xa`a^¥\_[¥]a^SVYVWaT^\_ZV  
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+HWI-EAS443:3:9:813:1996#0/1  
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+HWI-EAS443:3:9:977:1145#0/1  
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+HWI-EAS443:3:37:1321:1279#0/1  
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+HWI-EAS443:3:47:100:1300#0/1  
a\_^aaaaa]¥a¥^Va\_a\_aa]UY]^WM^\_a`\_\_Q\_[R[VN  
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+HWI-EAS443:3:74:1747:1484#0/1  
^abbbba\_b`aaaYa`aabb`aaa^\_Y\_a\_a¥^Zaa\_]`  
@HWI-EAS443:3:36:776:594#0/1  
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+HWI-EAS443:3:36:776:594#0/1  
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+HWI-EAS443:3:96:1048:867#0/1  
\_Q¥`Y^YYWY[PSG[V¥^XQRaQBBBBBBBBBBBBBBBB  
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+HWI-EAS443:3:50:748:866#0/1  
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+HWI-EAS443:3:72:1071:1575#0/1  
^\_\_\_¥\_\_`\_]¥\_Z^\_Z^Z[X]T]W^Z]]¥[ZX][\_[XTJ  
@HWI-EAS443:3:75:682:280#0/1  
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a\_baab`Va\_a\_Ta`a^^XY`abWFZ¥VUZ\_X]a¥\_GYa]  
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+HWI-EAS443:3:80:458:1398#0/1  
S\_\_^a\_aW^TXaa\_[^\_]ZZUZ\_\_aa]aaXQ[aa[S``[a  
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+HWI-EAS443:3:89:1280:865#0/1  
Saaa^^^a^b¥U`aaa¥a]X\_\_Vbba`ab]aXaa`T`a^a  
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GTTTCATAAGAGGAAAGAAAGTGATTCCAAGAGGGGAGCT  
+HWI-EAS443:3:2:750:1459#0/1  
a\_a`\_\_a]a\_aY]\_Z``a`aU¥]\_\_SSa``\_[[]Z\_Y`

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a]baaT````abbbb\_aaba]\_a]Waaa\_TS¥X`aba]`N  
@HWI-EAS443:3:90:1292:1373#0/1  
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+HWI-EAS443:3:90:1292:1373#0/1  
`baaSab`aaa\_a^aaa^[aa\_aa\_`V`\_a`^a\_^\_Z\_ZV  
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+HWI-EAS443:3:24:596:1138#0/1  
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@HWI-EAS443:3:4:909:135#0/1  
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+HWI-EAS443:3:4:909:135#0/1  
a]^\_ZT]MTZK]PZVTJQV¥QRNSGYXVMMXWBBBBBBB  
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+HWI-EAS443:3:69:1220:510#0/1  
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@HWI-EAS443:3:72:1487:1971#0/1  
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+HWI-EAS443:3:72:1487:1971#0/1  
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@HWI-EAS443:3:18:603:1325#0/1  
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+HWI-EAS443:3:18:603:1325#0/1  
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+HWI-EAS443:3:5:1415:469#0/1  
]\_ababbba`b¥baa[ba\_[S`\_bb\_a`\_bb`ZH[D]DL`  
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+HWI-EAS443:3:31:1144:573#0/1  
¥VS]¥a`b]^^]Ra[`WW^¥a¥a`YSR\_`¥XJ¥^a[\_[U  
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+HWI-EAS443:3:33:1366:491#0/1  
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@HWI-EAS443:3:33:290:28#0/1  
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+HWI-EAS443:3:33:290:28#0/1  
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a`aaXb`¥aaaa^a^aaaa^`¥a`[[¥`V^X\_\_^[I]`\_W  
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+HWI-EAS443:3:59:1334:1575#0/1  
H\_T\_Z[\_¥¥aY\_b]a\_X\_aZb`¥ab]a\_aa\_V\_a[^P`¥P  
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RO[^YW[O[¥V\_Y[TQW¥\_QYH\_ZP¥ZFUKVX]RP¥TTXX  
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CGTCCGTCTTTCATTGTTCCCGCTGAATGCTGCCATAACG  
+HWI-EAS443:3:95:616:177#0/1  
aaZ\_Sa¥`b`\_OZaa\_VUXZZ^S¥b`^`a]]LXa\_`TYU  
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ATGGAGGCTGCACACTGATCTGGCCTGCGGATGCCTTTTG  
+HWI-EAS443:3:11:1581:150#0/1  
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@HWI-EAS443:3:13:1711:1115#0/1  
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+HWI-EAS443:3:13:1711:1115#0/1  
T`aL\_\_VV¥^`bYb]PTYO`¥\_Rb`)]`\_bV``aabaVHVZ  
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CAATGAAGGACGGACATCCGACATGCGAACAGAAGTAATA  
+HWI-EAS443:3:39:909:1113#0/1  
a^`bbYR\_\_[Y[aYa[^ZV\_W\_]^RW\_^XX\_\_BBBBBBB  
@HWI-EAS443:3:44:328:378#0/1  
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+HWI-EAS443:3:44:328:378#0/1  
]b\_X`b\_Y^^^\_a\_¥``aY`Ka`a\_0^`F\_aba\_aZH^aa  
@HWI-EAS443:3:48:1626:1538#0/1  
GCCTCTTCCATCATTCTTATAACTTCTGTTCGCATGTTCG  
+HWI-EAS443:3:48:1626:1538#0/1  
OZ`[^¥S``XW[\_Z\_\_0\_¥T¥`^Y\_aa`aY[¥\_a`R\_X]`  
@HWI-EAS443:3:4:399:827#0/1  
ACTCATTTGAAGCAATCTGGACCCCTCTTGTGGAAAGATT  
+HWI-EAS443:3:4:399:827#0/1  
aT`b``aYba`bVb\_`IWbba\_aXR[^`a\_\_aaVQbaaHaZ  
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+HWI-EAS443:3:61:827:670#0/1  
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+HWI-EAS443:3:62:1433:1809#0/1  
\_]W^LT]U\_W¥a\_R\_^V\_a^\_R`WZZ]QUY^W`OU¥MTZT  
@HWI-EAS443:3:71:930:343#0/1  
GATGCCTTTTGTGATTGGTATTTCCCTCCACTCCTGNGCC  
+HWI-EAS443:3:71:930:343#0/1  
aaab\_^bbbabab`\_ba^a\_aaaaaaaaaa`a^a\_]DDYU  
@HWI-EAS443:3:82:565:590#0/1  
CTTCAATCTTCAAATGCAGCAGAGTGGCATGCCATCCACA  
+HWI-EAS443:3:82:565:590#0/1  
]W\_L\_abbaa\_[00XWWWZ[`UZbZZ\_a\_Z¥\_\_YGNIT`V  
@HWI-EAS443:3:85:347:1019#0/1  
GTTCCACATTCTCATTTGAAGCAATCTGGACCCCTCTTG  
+HWI-EAS443:3:85:347:1019#0/1  
aaZOxbU`aaaaababaa`¥a\_]\_``\_`¥`\_a\_``\_][`]  
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+HWI-EAS443:3:90:427:1400#0/1  
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+HWI-EAS443:3:94:530:1812#0/1  
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+HWI-EAS443:3:96:1303:1305#0/1  
ab\_WXW¥\_aa\_]a\_\_aa^X0`a\_\_¥[^\_Z\_\_`^]¥[^\_  
@HWI-EAS443:3:96:385:249#0/1  
AAGTGATTCCAAGAGGAAAGCTTTCCACAAGAGGGGCCAG  
+HWI-EAS443:3:96:385:249#0/1  
\_a`^baa`ba^aa`^^^a^a\_a\_[M`Y^]a)`[SZUVZ^  
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+HWI-EAS443:3:100:851:135#0/1  
aRab[ ]aaa¥aS^T`MFYTO[\_`a]Y[`YY`¥¥\_a\_\_U^B  
@HWI-EAS443:3:100:865:1973#0/1  
GAGCAACCGTTATGGCAGCATTTCAGCGGAAAAATGAAGG  
+HWI-EAS443:3:100:865:1973#0/1  
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+HWI-EAS443:3:10:569:1055#0/1  
aaa¥0\_baabaa]a`Ya\_Yb`aaaa`b^\_ab\_^a```\_`\_Z  
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+HWI-EAS443:3:10:625:741#0/1  
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+HWI-EAS443:3:14:1129:674#0/1  
\_^VV]Qa`a[S^`TWaabYKYaY¥W`a\_X`WJSZT^S[RP  
@HWI-EAS443:3:14:1156:363#0/1  
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+HWI-EAS443:3:14:1156:363#0/1  
aaaaaababaa\_aa\_a`aaaaa^\_a\_]`\_`]^^^`b\_]`  
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+HWI-EAS443:3:14:987:1728#0/1  
^Z``abbaa¥S\_b`a¥b¥[^YFYZQ`\_`NTYa\_aa\_a][WU  
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+HWI-EAS443:3:15:434:565#0/1  
`Z``aaa¥V]]X^]XZT`a][[X¥QG¥ZL¥U\_YW^^^¥¥  
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+HWI-EAS443:3:18:1121:674#0/1  
a]T¥aaba]Xaa`ba\_aa`a\_a]a`\_aaaa^`\_\_[DUaa  
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GAAAGTGATTCCAAGAGGAAAGCTTTCCGACAAGAGGGGTC  
+HWI-EAS443:3:19:1360:567#0/1  
aaaa¥JS`a`\_\_\_a\_]Z^`\_\_\_\_\_^MDSY]a\_^^^Z^ZP  
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+HWI-EAS443:3:1:126:1150#0/1  
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+HWI-EAS443:3:1:614:347#0/1  
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ATTTCCCTCCACTCCTGGTCCTTATGGCCCAGGATCTGCTT  
+HWI-EAS443:3:23:1601:1569#0/1  
X`bZPJWX\_H[VTN[XOYZZP^[\_Z^\_V^BBBBBBBBBB  
@HWI-EAS443:3:24:1093:773#0/1  
GAAAGTGATTCCAAGATGAAAGCTTTCCACAAGAGGGGTC  
+HWI-EAS443:3:24:1093:773#0/1  
\_VSV`H]R^]`\_XRYWG\_XXPZ[\_a`PW[OZUPYXa\_a¥S

@HWI-EAS443:3:27:1169:376#0/1  
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+HWI-EAS443:3:27:1169:376#0/1  
aWZ\_^¥\_bYHOOPYUXV``]ZPYT[[\_]HXLUGL][U[QH  
@HWI-EAS443:3:27:858:1275#0/1  
AAGAAAGAGATTCCAAGAGGAAAGCTTTCCACAAGAGGGG  
+HWI-EAS443:3:27:858:1275#0/1  
^X]^¥^TDTMQPX`aa``Z¥[a]^a\_¥TWa\_]¥P`\_a]^¥  
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+HWI-EAS443:3:29:781:1437#0/1  
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+HWI-EAS443:3:30:369:1250#0/1  
¥\_b¥X[YQ^S¥Za^``a`abbb`^`\_ba`^H\_```\_UZ`  
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GCCTTTTGTGGTTGGTATTTCCCTCCACTCCTGGTCCTTA  
+HWI-EAS443:3:30:816:22#0/1  
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+HWI-EAS443:3:30:900:1625#0/1  
V``\_b`Wa^^\_Z¥UTY`W^H`bbab]a]\_QXW\_`a`]WV  
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+HWI-EAS443:3:32:532:1710#0/1  
a\_bbaabaaabaaa`^Zbaaaba\_aabb`ba\_^[\_aa^¥  
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+HWI-EAS443:3:33:1211:1670#0/1  
a\_aaV¥¥^[TZN]^`ZTX`]^\_]\_`[]^\_¥G^UYW][Z  
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+HWI-EAS443:3:33:1632:1263#0/1  
aaaababaa[Z`W\_`ab`Z`\_a\_a`aN¥aTDNFY\_[-^^  
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+HWI-EAS443:3:33:189:607#0/1  
aaaaaaV`\_\_`a\_\_Wa^`¥\_YT\_\_\_\_\_`^\_`¥¥¥\_¥¥\_`¥¥  
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+HWI-EAS443:3:33:234:895#0/1  
[G\_\_aab^``aaa]Y]]aaa]`¥¥\_\_[Z\_[]ZQ[]\_`^NZZ  
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+HWI-EAS443:3:33:366:128#0/1  
¥aabaY`^\_bb^bb`¥0]]^V]V[[\_WM[EZ]¥]S0Tα]P  
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GGAGGAAATACCAATCAACAAAAGGCATCCGCAGGTCAGA

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\_¥\_`\_S\_ba^ab\_U]abaaaa]T\_^a` `]aW^WY`U¥\_\_^  
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CCCCGCTGAATGCTGCCATAACGGTTGGTCTTTCAAAGGG  
+HWI-EAS443:3:34:134:786#0/1  
Q\_bbb` [ `bOU\_X[ `aT[^a\_R¥ZWFZaa^XU^aa^VZP  
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+HWI-EAS443:3:34:779:952#0/1  
aaabaaaa\_aaa`aa`\_aaaaaaaa\_a`aaa^\_\_VZT^W\_  
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+HWI-EAS443:3:36:17:1845#0/1  
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+HWI-EAS443:3:37:564:954#0/1  
ab[\_T\_`X¥PXR^^M`YV[P]\_`^`\_`^`\_LUY\_WYVW]STT  
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+HWI-EAS443:3:38:1085:411#0/1  
` [¥NU[aYaWN\_` [ `W[ZZU\_^a^\_BBBBBBBBBBBBBBB  
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+HWI-EAS443:3:38:1552:997#0/1  
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+HWI-EAS443:3:3:576:1942#0/1  
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+HWI-EAS443:3:40:108:736#0/1  
abbabbbbbbb`abbbab`a\_aaa` `¥a[\_a` ]`aaZ`  
@HWI-EAS443:3:40:242:1247#0/1  
TGCCACTCTGCTGCATTTGAAGATTTAAGAGTCTCAAGTT  
+HWI-EAS443:3:40:242:1247#0/1  
X` `¥`aaZ¥\_\_\_^GZ`Z\_]` \_\_^]LWa]YMKY\_OT¥]^  
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CTCCCTTTTGAAGAGCAACCGTTATGGCAGGATTCAGCG  
+HWI-EAS443:3:43:1197:779#0/1  
a`WT[\_bb`\_]\_Q\_VHT^YI`\_YNNBBBBBBBBBBBBBBB  
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TTCAAATGCAGCAGAGTGGCATGCTATCCACACCAATTGA  
+HWI-EAS443:3:49:395:1017#0/1  
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@HWI-EAS443:3:4:138:1860#0/1  
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+HWI-EAS443:3:4:138:1860#0/1  
ab\_]babbZ\_``bba[ba`Sa`U^b`b``TaXPaa\_a[^  
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GAAAGCTTTCCACAAGAGGGGTCCAGATTGGTTCAAATGA  
+HWI-EAS443:3:50:1302:1812#0/1  
XV`¥aSXW`QW^b\_\_b`^^\_PEP¥abZIU\_Ga^T^`][`a  
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+HWI-EAS443:3:50:167:1569#0/1  
a``aXF\_Zba[aZVa`Z^Y\_\_[\_``^b\_`^TVPP¥aWD  
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+HWI-EAS443:3:50:775:1921#0/1  
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+HWI-EAS443:3:51:124:416#0/1  
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+HWI-EAS443:3:52:1046:111#0/1  
aa`bbabb`ababbaa¥b^ba`^a`Z`\_a`¥aaa¥`¥a``  
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GAGCAACCGTTATGGTAGCATTGAGCGGAACAATGAAGG  
+HWI-EAS443:3:53:520:1597#0/1  
ababb\_^aa\_\_`ab\_Y\_a^a`[a`¥Y`\_a]^XW`]X]a``  
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CTTAAATCTTCAAATGCAGCAGAGTGGCATGCCATACACA  
+HWI-EAS443:3:55:1343:1649#0/1  
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ATGGTTTCCACATTCTATTTGAGGCAATCTGGACCCCTC  
+HWI-EAS443:3:57:717:1615#0/1  
aaa\_\_bbaab[abaa`\_a`aaaYG^`\_`aa`\_^^\_¥\_\_\_\_  
@HWI-EAS443:3:58:1094:523#0/1  
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+HWI-EAS443:3:58:1094:523#0/1  
aY`UVMRWYa\_Z[YTQW¥VUW]U]^ZT^ZY\_XUUV¥¥Z[T  
@HWI-EAS443:3:58:1245:97#0/1  
GTTTCGCATGTCCGATGTCCGTCCTTCATTGTTCCCTCTGA  
+HWI-EAS443:3:58:1245:97#0/1  
a\_`\_a\_\_`aT[^aS^^RVWYJRUIW[¥¥][^WXTSTWW¥UT  
@HWI-EAS443:3:58:1610:592#0/1  
GAGGAAAGAAAGTGATTCCAAGAGGAAAGCCTTCCACAAG  
+HWI-EAS443:3:58:1610:592#0/1  
a\_aa`\_\_a^X\_aRa[^]W^\_\_`^`\_`\_0[\_^Z^^]^\_\_  
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+HWI-EAS443:3:58:1706:1389#0/1  
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+HWI-EAS443:3:59:1246:885#0/1  
ZXba`V¥b\_\_Vbabaa`¥a¥abb\_baaaa\_F]a`T0]\_\_  
@HWI-EAS443:3:64:943:1706#0/1  
AGTGATACCAAGAGGAAAGCTTTCCACAAGAGGGGTCCAG  
+HWI-EAS443:3:64:943:1706#0/1  
^¥Q¥aVF^[b\_QZZa¥aVWaRSa]R\_Xa`^YLYFLSEX]  
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GAAGGACGGACATCCGACATGCGAACAGAAGCTATAAGAA  
+HWI-EAS443:3:65:1384:1216#0/1  
ZZabONU[a^^¥^\_]`U\_b^¥XZ\_a]b]]¥VWa`\_aa`a  
@HWI-EAS443:3:66:376:1268#0/1  
GTCCGTCTTTCATTGTTCCCGCTGAATGCTGCCATAACGG  
+HWI-EAS443:3:66:376:1268#0/1  
a`b^]Uaaaaaba`a]`aa^\_````]]`a\_\_````^`[a`  
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+HWI-EAS443:3:68:1575:1856#0/1  
aa`\_aba`a`a`\_]`\_a\_\_a\_\_[^S^`^UR]]\_[TZVU]X  
@HWI-EAS443:3:68:276:1439#0/1  
AGGAAATACCACTCAACAAAAGGCATCCGCAGGCCAGATC  
+HWI-EAS443:3:68:276:1439#0/1  
a^`^Y¥]\_a`¥J¥bYR^a`]VXR`a\_\_]^\_T¥[P[ZUZUP  
@HWI-EAS443:3:68:920:1687#0/1  
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+HWI-EAS443:3:68:920:1687#0/1  
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+HWI-EAS443:3:70:1151:41#0/1  
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+HWI-EAS443:3:71:1162:1237#0/1  
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+HWI-EAS443:3:71:988:410#0/1  
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+HWI-EAS443:3:73:312:1331#0/1  
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+HWI-EAS443:3:79:1404:1523#0/1  
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+HWI-EAS443:3:81:798:1762#0/1  
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+HWI-EAS443:3:82:70:199#0/1  
`¥S^a]]¥¥¥]]^^a^ZY\_\_¥`[H[`W`^^Z^^[Y]`¥Z[  
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+HWI-EAS443:3:82:952:1451#0/1  
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+HWI-EAS443:3:85:252:489#0/1  
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+HWI-EAS443:3:87:1173:227#0/1  
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+HWI-EAS443:3:87:1212:1067#0/1  
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+HWI-EAS443:3:87:540:439#0/1  
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+HWI-EAS443:3:90:1154:1690#0/1  
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+HWI-EAS443:3:90:1341:775#0/1  
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@HWI-EAS443:3:91:399:1818#0/1  
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+HWI-EAS443:3:91:399:1818#0/1  
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+HWI-EAS443:3:92:1620:361#0/1  
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+HWI-EAS443:3:97:1039:1454#0/1  
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+HWI-EAS443:3:99:116:32#0/1  
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+HWI-EAS443:3:10:1664:1456#0/1  
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+HWI-EAS443:3:23:1697:899#0/1  
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+HWI-EAS443:3:45:750:241#0/1  
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+HWI-EAS443:3:47:1781:233#0/1  
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+HWI-EAS443:3:65:1522:1591#0/1  
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+HWI-EAS443:3:72:335:103#0/1  
aa\_a\_a\_Z¥\_ba`aXaa^¥¥\_\_\_aNZ\_MU]\_`¥^QZVGK[  
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+HWI-EAS443:3:83:684:429#0/1  
a^H]\_`¥babbbaa\_aaa¥\_]aa\_`\_aX\_`a`\_``a^a\_`^  
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+HWI-EAS443:3:15:1137:61#0/1  
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+HWI-EAS443:3:31:338:1915#0/1  
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+HWI-EAS443:3:5:1559:717#0/1  
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+HWI-EAS443:3:63:806:1201#0/1  
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+HWI-EAS443:3:80:1756:1271#0/1  
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+HWI-EAS443:3:81:1207:372#0/1  
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+HWI-EAS443:3:84:1487:1145#0/1  
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+HWI-EAS443:3:86:815:1491#0/1  
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^ZZ^^\_¥\_b¥WX^b`b^a¥OWa``b\_^`]b\_Ta^bI¥`K\_  
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a\_bbbabaaa`b`\_aaaa^aa`\_a\_aWaa`\_^]`\_aa¥`  
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a]^USXZ[]b`a`\_aT`\_aa`]\_`¥]]\_V\_\_R\_¥^XaU[U  
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ab\_\_ba\_bb\_^\_bZ]``\_b\_ba\_aa¥^a^a^N^a`a^Xb\_  
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a\_a\_a]a`a\_aa`aaa^a`\_\_`\_`\_aY^`\_\_`\_VV^`\_`\_  
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\_P\_a`\_aa¥a[¥a`aaa¥Z\_\_[[^J[XY^\_\_\_ZV¥\_Z\_\_  
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+HWI-EAS443:3:15:231:508#0/1  
a\_R]`aSG]V[R[]\_[]\_[]O]¥aaYa`\_a`XKZ[¥Z[RZ^  
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AGTGATTCCAAGAGGAAAGCTTTCCACAAGAGGGTCCAG  
+HWI-EAS443:3:15:315:1407#0/1  
R^Zbbbbbb\_0\_]bZ\_aa\_\_a\_abbbba[aaa[VTYaS`  
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+HWI-EAS443:3:15:471:1764#0/1  
¥\_WaU[W\_]\_W¥WW¥\_U\_]ba`XW[[OGRabaY`]¥aTHI  
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CTTCTGGCTTTGCACTTCCATCATTCTTATAACTTCTGT  
+HWI-EAS443:3:15:49:1764#0/1  
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+HWI-EAS443:3:15:649:1531#0/1  
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+HWI-EAS443:3:16:1030:1932#0/1  
`ba^Y]aaa`L\_`\_`a`a]a\_¥LUBH`\_a`a¥a`\_`\_^]\_`

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`^`M\_a^^`\_`^U`^Z\_baa`]Wba^W^¥YVYaYU]`aa[]  
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CGCAGGCCAGATCAGTGTGCAGCCTACATTCTCAGTGCAG  
+HWI-EAS443:3:16:1185:863#0/1  
aabb`abbaaaa`baaa``¥]]`\_abaaa`aaYaa^`X[a  
@HWI-EAS443:3:16:1189:817#0/1  
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+HWI-EAS443:3:16:1189:817#0/1  
aa]bbaba]¥baa`aaba`babaa`a^aa```^``aa^a^  
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+HWI-EAS443:3:16:1231:1376#0/1  
Z¥`\_¥[``\_S\_\_a[QJ]Y`b^bbba]XO¥]OY^U]SX¥K]S  
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+HWI-EAS443:3:16:1340:1668#0/1  
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+HWI-EAS443:3:16:1518:1389#0/1  
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a`abaaa`aaaaaaaaaaaaU``a`aaaa`\_\_\_\_a\_a\_\_  
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+HWI-EAS443:3:16:455:190#0/1  
aa`aaUaa\_\_aYaU`M[a[``\_]\_WZG[XW]^YZ\_Y^U]XB  
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a][\_YS`\_TP[IP`\_`^``[P¥`]]W^\_¥U[X^YWZ[MS[  
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+HWI-EAS443:3:16:63:92#0/1  
a`abaa\_aaa\_\_a`aa`a`\_\_\_\_\_]\_\_\_]Z\_^\_Ya^VV]R  
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+HWI-EAS443:3:17:1062:285#0/1  
aa\_a`\_aa`^`^`^`^`¥Y]¥Z¥ZV]WY]]`X`X\_]\_Y]^X]  
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+HWI-EAS443:3:17:1165:1841#0/1  
ab\_aaXY\_RSWTN¥YUXaVZ¥S\_ZJG^S[[\_\_a\_\_W\_]^[  
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+HWI-EAS443:3:17:125:702#0/1  
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+HWI-EAS443:3:17:1539:1195#0/1  
]a`[`Z`¥aT`a`a`a`a\_aa[a\_Ya\_\_Saa]R[[]`\_W  
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+HWI-EAS443:3:17:1572:1900#0/1  
ab\_\_`\_YY]a\_`^`\_a\_a`\_`\_]¥WM]a\_[X\_[P[^]X^]  
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+HWI-EAS443:3:17:1730:1880#0/1  
aa^`\_baaabba¥a\_aa\_a`a`a¥bW\_aa`[\_\_^`\_SYR\_  
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+HWI-EAS443:3:17:179:1270#0/1  
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+HWI-EAS443:3:17:801:2023#0/1  
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+HWI-EAS443:3:17:861:1477#0/1  
^¥a`\_]a`a`\_T`bbb`a^\_\_b[`¥^a\_a[b[`aa`X^W`  
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+HWI-EAS443:3:17:86:2036#0/1  
]\_`bb`]\_^\_Qa^\_GS^`^`^`\_a`¥\_ba^`aa\_a`^[T\_\_]



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+HWI-EAS443:3:17:960:1905#0/1  
\_UZ\_Za^Q\_¥MW]YP¥P\_\_S¥\_]¥X`a\_H\_YRXV^]SVX  
@HWI-EAS443:3:18:1143:1546#0/1  
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+HWI-EAS443:3:18:1143:1546#0/1  
`abaab\_bab`aa`a\_aba^a\_aaaa\_^\_\_a\_]a`\_^Y  
@HWI-EAS443:3:18:1189:62#0/1  
ATCAAGTTTCATAAGAGGAAAGAAAGTGATTCCAAGAGGA  
+HWI-EAS443:3:18:1189:62#0/1  
aa\_aaa^aa\_aa`aa`aa^`\_a[¥\_`Z\_\_\_\_]\_`\_]^[\_]  
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+HWI-EAS443:3:18:1247:1050#0/1  
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+HWI-EAS443:3:18:1379:1878#0/1  
^Y\_aa^aaZa\_^\_aa¥\_a^\_YUZ[U^¥]\_¥\_^R^¥¥\_QZ¥  
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+HWI-EAS443:3:18:190:366#0/1  
a`\_b`bb^aa`YNXa`^]H^`\_X[JVVP]¥¥]XUG^`ZYU  
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AAGTTATAAGAATGATGGAAAGTGCAAAGCCAGAAGATTT  
+HWI-EAS443:3:18:307:1313#0/1  
V\_`aa``\_abaaabaabaaaa¥^^aaa¥a^aaa`Xaa^\_  
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GTTCCCGCTGAATGCTGCCATAACGGTTGCTCTTTCAAAA  
+HWI-EAS443:3:18:30:1046#0/1  
a[[\_`\_aaa\_```^`\_^^^a\_^Z^^\_`V^]VW[U[^Z[¥^]  
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+HWI-EAS443:3:18:356:1945#0/1  
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ATGTCCGATGTCCGTCCTTCATTGTTCCCGCTGAATGCTG  
+HWI-EAS443:3:18:43:1943#0/1  
a\_¥^\_Z\_`^ZY]S¥U^\_\_^^^\_Z¥¥^[WR¥¥¥¥^ZWVSN  
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+HWI-EAS443:3:18:823:1924#0/1  
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+HWI-EAS443:3:18:876:1017#0/1  
a``aabUba\_\_a`a\_`aa^\_a]\_\_\_\_\_`\_\_a^`\_`\_`\_`\_`  
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+HWI-EAS443:3:19:1043:1247#0/1  
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GAGGAAAGAAAGTGATTCCAAGAGGAAAGCTTCCACAAG  
+HWI-EAS443:3:19:1045:1711#0/1  
U\_`a`\_`¥Sab\_YQ^[[`b^^aHZL]]^`YZPa[\_a`R^`\_`  
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+HWI-EAS443:3:19:1158:229#0/1  
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+HWI-EAS443:3:19:127:702#0/1  
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+HWI-EAS443:3:19:1649:907#0/1  
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+HWI-EAS443:3:19:261:416#0/1  
¥`a`^`\_Z\_`W\_Z\_^ZaZS¥^a\_R[¥Za¥^YZV¥`WSZY\_\_

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+HWI-EAS443:3:19:307:1546#0/1  
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+HWI-EAS443:3:19:589:1539#0/1  
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+HWI-EAS443:3:19:944:1169#0/1  
a`a`Z`aa`¥a]F^ZZVU[Z``aZ``\_`a^`\_```[]U\_X]  
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+HWI-EAS443:3:1:1018:1199#0/1  
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+HWI-EAS443:3:1:1541:1158#0/1  
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+HWI-EAS443:3:1:1624:229#0/1  
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+HWI-EAS443:3:1:254:407#0/1  
a\_a`b\_\_aa¥\_a\_Y[\_SZT^\_¥`\_`\_`W¥^VV^USBBBBBB  
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+HWI-EAS443:3:1:48:333#0/1  
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+HWI-EAS443:3:1:992:1097#0/1  
^a]^¥^Xaabaaa`^Na\_\_a\_\_a\_aa]^` ` \_]a\_BBBB  
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]b` `b¥bab]bbbbaZaabba]Ra\_` ` ` `aaZG]a` \_a\_Z  
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+HWI-EAS443:3:20:1168:92#0/1  
aaZba\_¥XaaaYa` \_]a\_\_]\_^^¥SVX` ¥Y^` ^XWVOX]\_  
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+HWI-EAS443:3:20:1352:1372#0/1  
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^abba` `ab\_X\_abaa`aabX^`baa[^\_aaa¥Xaaa\_H`  
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GCTTTCCACAAGAGGGGTCCAGATTGCTTCAAATGAGAAT  
+HWI-EAS443:3:20:1390:1322#0/1  
aaa` \_`aa` `^` \_aaa^Y` ]` \_\_\_aZW` ^^` \_\_\_]Y[\_\_\_¥  
@HWI-EAS443:3:20:1400:825#0/1  
CAATTGGTGTGGATGGCATGCCACTCTGCTGCATTTGAAG  
+HWI-EAS443:3:20:1400:825#0/1  
[Z¥` \_¥SX` ^^a` ¥¥\_[Y^[]MYaTS]\_aYU` `ba^XRU[  
@HWI-EAS443:3:20:1503:1030#0/1  
CTTTTGTGATTGGTATTTCTCCACTCCTGGTCCTTATG  
+HWI-EAS443:3:20:1503:1030#0/1  
abbbbbbbbabbbbaabbbbaaaabaaaabaa^` `aaaa^  
@HWI-EAS443:3:20:151:598#0/1  
AGAGTATCAAGTTTCATAAGAGGAAAGAAAGTGATTCCAA  
+HWI-EAS443:3:20:151:598#0/1  
a^a[^]¥][Y` ]\_\_^YaYNT^VWVa]^VWTQN\_` ¥XVR¥¥  
@HWI-EAS443:3:20:1663:1266#0/1  
GAGAATGTAGGCTGCACACTGATCTGGCCTGCGGATGCCT  
+HWI-EAS443:3:20:1663:1266#0/1  
a]b]a]aaaa]XY` ]aP¥¥aa¥TRR` [JXS\_Xa` NNWFOJ

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GGAAATACCAATCAACAAAAGGCATCCGCAGGCCAGATCA  
+HWI-EAS443:3:20:1768:589#0/1  
aa[Ya`aRSX[\_S]^W]a\_\_\_¥Z\_^WW\_^¥^\_VUW¥YWMU  
@HWI-EAS443:3:20:361:157#0/1  
GAGGAAAGCTTTCCACAAGAGGGGTCCAGATTGCTTCAAA  
+HWI-EAS443:3:20:361:157#0/1  
`\_`aabb`]^aaaaa^X]aa\_TZ`]\_[a`aaX\_\_`^^a^\_  
@HWI-EAS443:3:20:580:38#0/1  
AAGAAAGTGATTCCAAGAGGAAAGCTTTCCACAAGAGGGG  
+HWI-EAS443:3:20:580:38#0/1  
aa`^```Z`Y`aa\_a\_a\_\_\_`\_a^\_\_\_^\_Z]\_]\_^`^^^  
@HWI-EAS443:3:20:714:1627#0/1  
CAGGGTATTGGAGTCCATGGTTTCCACATTCTCATTGAA  
+HWI-EAS443:3:20:714:1627#0/1  
a]Z^\_V`aaa`X^U^^a^`[\_`WU[[]\_\_^\_[\_`\_\_`¥  
@HWI-EAS443:3:20:758:253#0/1  
TGGGCCATAAGGACCAGGAGTGGAGGAAATACCAATCAAC  
+HWI-EAS443:3:20:758:253#0/1  
TJ^¥a`babb`[T``\_[La`¥ba\_[HSVbaXaX`^a]a^¥  
@HWI-EAS443:3:21:1083:463#0/1  
ATCCGACATGCGAACAGAAGTTATAAGAATGATGGAAAAGT  
+HWI-EAS443:3:21:1083:463#0/1  
a`a\_aa[]b`W`ZY[a¥]a\_\_^`\_`a¥^aa\_\_a]^\_[^X  
@HWI-EAS443:3:21:1245:617#0/1  
GATTGCTTCAAATGAGAATGTGGAAACCATGGACTCCAAT  
+HWI-EAS443:3:21:1245:617#0/1  
a\_`````\_a¥]a\_`Y^aW]^ [¥a\_Z^XSUT\_\_]^Z]ZXX  
@HWI-EAS443:3:21:1277:1298#0/1  
GAAAGTGATTCCAAGAGGAAAGCTTTCCACAAGAGGGGTC  
+HWI-EAS443:3:21:1277:1298#0/1  
\_¥Z^`[a¥aaaabaa[\_YY\_```]`a^`^`\_a\_¥^a]\_U^Y  
@HWI-EAS443:3:21:1317:990#0/1  
CTTGATACTCTTAAATCTTCAAATGCAGCAGAGTGGCATG  
+HWI-EAS443:3:21:1317:990#0/1  
abaa¥aaabababbba`ba¥`\_a`^`^`]`a]YXa`W`\_]`  
@HWI-EAS443:3:21:1377:140#0/1  
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+HWI-EAS443:3:21:1377:140#0/1  
`^Z¥`\_¥\_aaaa¥T]Z^a^UU]aVUZZTR[NVQRYPRUZZ  
@HWI-EAS443:3:21:1428:1111#0/1  
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+HWI-EAS443:3:21:1428:1111#0/1  
aaaa\_a]]]aa[bZa\_`aa^`]a]¥Xa\_`\_a`^\_a]^`^YZ  
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+HWI-EAS443:3:21:1766:180#0/1  
abaa\_aaZaaaa\_a`^`^`^ZZ\_¥¥¥¥X¥¥U¥U[XVYYY¥  
@HWI-EAS443:3:21:180:291#0/1  
GTCGGATGTCCGTCCTTCATTGTTCCCCTGAATGCTGCC

+HWI-EAS443:3:21:180:291#0/1  
a¥` `P]YZOQa]FQ\_Q\_PR][aMM^\_\_^PQOG]¥YJWB  
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GATGCCTTTTGTGATTGGTATTTCTCCACTCCTGGTCC  
+HWI-EAS443:3:21:310:716#0/1  
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@HWI-EAS443:3:21:434:1270#0/1  
TAAGAATGATGGAAAGTGCAAAGCCAGAAGATTTGTCCTT  
+HWI-EAS443:3:21:434:1270#0/1  
`YY\_^bab]^`\_F]b]^aa\_]a[aba`\_]\_`^`\_aV\_\_\_\_[  
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+HWI-EAS443:3:21:756:239#0/1  
¥N\_]aRba]SUY¥LYXYSXPVXTNZXUWTV^U^UTLS]]V  
@HWI-EAS443:3:21:947:950#0/1  
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+HWI-EAS443:3:21:947:950#0/1  
abab^aaba`aaaaaba\_aaa\_a`ba`aa^aaaa` `a  
@HWI-EAS443:3:21:967:1204#0/1  
TTCAGCGGAACAATGAAGGACGGACATCCGACATGCGAA  
+HWI-EAS443:3:21:967:1204#0/1  
`O¥RPT\_UO¥V]^]¥P][ ]\_`W[\_ZYXJLLU]^Z^R^YZ  
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GACATCCGACATGCGAACAGAAGTTATAAGAATGATGGAA  
+HWI-EAS443:3:22:1124:1699#0/1  
`^]^]¥O[[O[[¥RUUa\_R` `TUTW]]MQZ]ZU`\_\_¥R¥a  
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GATCTGGCCTGCGGATGCCTTTTGTGATTGGTATTTCTCCT  
+HWI-EAS443:3:22:1164:145#0/1  
`a\_X\_aaa` `Z\_\_¥]`]¥]\_` `Za\_[\_`]XRR¥`\_¥TV  
@HWI-EAS443:3:22:1343:1126#0/1  
AGTGATTCCAAGAGGAAAGCTTTCCACAAGAGGGGTCCAG  
+HWI-EAS443:3:22:1343:1126#0/1  
\_`Zbaba`^ab\_aa]]^a\_[bbaa^`¥aa\_^]Z]RV`\_a  
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TCCAGGGTATTGGAGTCCATGGTTTCCACATTCTCATTG  
+HWI-EAS443:3:22:1400:598#0/1  
a`a]^a`Raaa`^`a^Z^aa^`Sa`\_\_aY]a`]aY`a` `W  
@HWI-EAS443:3:22:1459:1856#0/1  
CGGATGTCCGTCCTTCATTGTTCCCGCTGAATGCTGCCAT  
+HWI-EAS443:3:22:1459:1856#0/1  
abbaba`aabaabbbabbbb`aaa\_a]aaaa` `\_\_¥\_aa  
@HWI-EAS443:3:22:1487:724#0/1  
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+HWI-EAS443:3:22:1487:724#0/1  
I]]^aaaa` `a`PX`aaaaa]\_`Za\_^Y`a^aa\_\_`]]  
@HWI-EAS443:3:22:1527:897#0/1  
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+HWI-EAS443:3:22:1527:897#0/1  
aab¥DL]T]]Q\_SL]a`ZU[^` [V¥SVSP¥aSY]LQVW^Z

@HWI-EAS443:3:22:1580:904#0/1  
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+HWI-EAS443:3:22:1580:904#0/1  
ab^]0`J`bbaa`aa`aabS`Y\_\_\_baa^a)`aaaa\_`  
@HWI-EAS443:3:22:1670:1798#0/1  
AGTGATTCCAAGAGGAAAGCTTTCCACAAGAGGGGTCCAG  
+HWI-EAS443:3:22:1670:1798#0/1  
`V[Vaaa`)]`\_Zaabaab`Q]\_\_\_^\_0`R^Z\_V]a]]]^a  
@HWI-EAS443:3:22:429:390#0/1  
GGACCCCTCTTGTGGAAAGCTTTCTCTTGAATCACTTT  
+HWI-EAS443:3:22:429:390#0/1  
Za[S]aaS`aaa^a[aa\_`a`[a[\_`LTaa^]^``\_\_\_^^  
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CAGAAGTTATAAGAATGATGGAAAGTGCAAAGCCAGAAGA  
+HWI-EAS443:3:22:477:1374#0/1  
aaa]Ta\_aaaaaa\_\_\_^^^a\_a`)]X\_``\_a]W]\_^¥\_X\_  
@HWI-EAS443:3:22:506:1329#0/1  
AAATGAGAATGTGGAAACCATGGACTCCAATACCCTGGAA  
+HWI-EAS443:3:22:506:1329#0/1  
a`a]]aaZ]\_b\_aTa^^ba`)]W`a¥`\_a``\_\_aa[W^\_\_  
@HWI-EAS443:3:22:609:1089#0/1  
GTTTCCACATTCTCATTGAAGCAATCTGGACCCCTCTTG  
+HWI-EAS443:3:22:609:1089#0/1  
[`aaba`b)`abaa^abaaaaaaaaaaaa\_Ya`\_a\_\_a^\_[  
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GTTTCCACATTCTCATTGAAGCAATCTGGACCCCTCTTG  
+HWI-EAS443:3:22:62:1051#0/1  
aaaaaaaaaaaa\_a``aaaaa^`\_\_^`^^`^^`\_\_\_\_^  
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CAGATTGCTTCAAATGAGAATGTGGAAACCATGGACTCCA  
+HWI-EAS443:3:22:640:586#0/1  
a``¥XOZ`S`\_¥Q[WZ`)]`]VX`\_aa`]P\_[]RY[\_a[[  
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TCCAGGGTATTGGAGTCCATGGTTTCCACATTCTCATTG  
+HWI-EAS443:3:22:644:119#0/1  
\_]`^bZbU]R`a\_P¥RZa]^aaN[\_U`\_[Z¥WNYU^`¥\_`  
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AAACTTGATACTTTAAATCTTCAAATGCAGCAGAGTGGC  
+HWI-EAS443:3:22:823:1303#0/1  
T^`aVVQ^aXaaaa]b[[¥b`Z`baaaT]\_¥]YSTUU\_]Y  
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GGAAAGAAAGTGATTCCAAGAGGAAAGCTTTCCACAAGAG  
+HWI-EAS443:3:22:875:552#0/1  
a`ZQ\_bVa\_a]a`Z]`]]`[\_a\_``[^Y`¥]]][^]UYU\_`^  
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+HWI-EAS443:3:22:914:1445#0/1  
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+HWI-EAS443:3:22:98:1465#0/1
`YYa[a`aYQWYZ`aXZUYWQ[]VYW_a[U]aZ[Ta¥T`P
@HWI-EAS443:3:23:1011:1280#0/1
GATTGCTTCAAATGAGAATGTGGAAACCATGGACTCCAAT
+HWI-EAS443:3:23:1011:1280#0/1
]_aX_¥bV`UZabW_¥bbab_aZ`abaaba[^`aaaZWW
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+HWI-EAS443:3:23:108:258#0/1
aaaa^¥_a`aaWa^`aa^_0_____]]_Y^_^_
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TGCCTTTTGTGATTGGTATTTCTCCACTCCTGGTCCTT
+HWI-EAS443:3:23:1145:496#0/1
aa^^a`aaa_`^`a^W_^^WW^]Y]Z^WY]^XX]Z^Z
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+HWI-EAS443:3:23:139:1148#0/1
a`[`Y_NVaaa[NO_a`YaSP^a`YS]a`_`_`a`_X]
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+HWI-EAS443:3:23:1629:1273#0/1
]b`_S_b``[baabaa]abaaa]Vaa¥a^a_`¥T[P[]
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CACTGAGAATGTAGGCTGCACACTGATCTGGCCTGCGGAT
+HWI-EAS443:3:23:267:1182#0/1
V_XZ__Y[W¥TZ`WL[T¥^Z[T`abZHVWb¥IFX`]LHL
@HWI-EAS443:3:23:407:1445#0/1
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+HWI-EAS443:3:23:407:1445#0/1
aaaa`)`aaaa`Vaaa_aaa_`[a_a_a`^]__¥^^a^
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+HWI-EAS443:3:23:466:1858#0/1
^b`baabaabaaa_aab`b^aZ_ab`bU`_aZa`aa__a
@HWI-EAS443:3:23:623:334#0/1
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+HWI-EAS443:3:23:623:334#0/1
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@HWI-EAS443:3:23:710:376#0/1
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+HWI-EAS443:3:23:710:376#0/1
ab^baabbaaa]aba_baaaa`a`aaaa^_a^`_Z_^
@HWI-EAS443:3:24:1022:1458#0/1
CAGCGGAACAATGAAGGACGGACATCCGACATGCGAACA
+HWI-EAS443:3:24:1022:1458#0/1
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@HWI-EAS443:3:24:1161:354#0/1
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+HWI-EAS443:3:24:1161:354#0/1
abbbabbb`baabbaabb`abbbbaabba`bbbbbb[aaa

@HWI-EAS443:3:24:1280:1655#0/1
GATTGCTTCAAATGAGAATGTGGAAACCATGGACTCCAAT
+HWI-EAS443:3:24:1280:1655#0/1
abb_]_abbabaaabaaba[``ab_Uaaaa]a^`]U````
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+HWI-EAS443:3:24:1432:948#0/1
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+HWI-EAS443:3:24:145:1689#0/1
aUL]b_Ya`^^aa]¥][U]]JY[]RZX^_Q_]^_ZZX¥`_
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+HWI-EAS443:3:24:1691:1401#0/1
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aabaah_a_a`aa^aY_aaa_aaYa`^a_a_a_a`_a`_^
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+HWI-EAS443:3:24:743:1889#0/1
_a^abaa`^aYbaaaa`a__aP_H_]__a[U_^UXWPVX]
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AGTGATTCCAAGAGGAAAGCTTTCACAAGAGGGGTCCAG
+HWI-EAS443:3:24:797:414#0/1
aa¥aaa`baaaaaa`a^`____a```_aaa_a`___[]Y`a
@HWI-EAS443:3:24:862:290#0/1
GAAATACCAATCAACAAAAGGCATCCGCAGGCCAGATCAG
+HWI-EAS443:3:24:862:290#0/1
a`]a`a]_]_a^a_Ta]__`^R^^UY_]_YRV]]^TTTT]
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+HWI-EAS443:3:25:1096:644#0/1
aaaZ¥T`^a]`_VPU0XR`Z_U¥^Y]_]`]]]]_VU
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+HWI-EAS443:3:25:1237:243#0/1
Ja[¥bbbb¥_abb_bbY`bKabb_bbbaab_b`_]`^bbb
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+HWI-EAS443:3:25:1450:1503#0/1
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+HWI-EAS443:3:25:1482:316#0/1
`b`_]`^YH[bbaaXaaX]_]`_Y`_XUaZ][XZNZV^VUVL
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@HWI-EAS443:3:25:269:131#0/1
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+HWI-EAS443:3:25:269:131#0/1
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+HWI-EAS443:3:25:299:287#0/1
a_a`aaaaaaa`]a`__a`_`¥_Y_X_¥^_]W^^Y]Y_]X
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+HWI-EAS443:3:25:503:44#0/1
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@HWI-EAS443:3:25:631:106#0/1
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@HWI-EAS443:3:25:65:1733#0/1
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+HWI-EAS443:3:25:65:1733#0/1
a`abbaabaa`aaa`aaa^_aa_aa]aa_]a^a]^]_
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+HWI-EAS443:3:25:742:747#0/1
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+HWI-EAS443:3:25:780:1933#0/1
[HU`^^^[^S_]ZY]TR¥W__`___ZW_TP]_UTX_^Z_
@HWI-EAS443:3:25:804:751#0/1
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+HWI-EAS443:3:25:804:751#0/1
]a^¥_]`a^bba`_]X]`]__aaaa^a^Z`a`_XaZa
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+HWI-EAS443:3:25:929:619#0/1
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@HWI-EAS443:3:26:1004:776#0/1
ATCCGACATGCGAACAGAAGTTATAAGAATGATGGAAAGT
+HWI-EAS443:3:26:1004:776#0/1
^_¥Q`a^_aZI]]ZTZb^a^a`Z[````[`aTHW_aY
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+HWI-EAS443:3:26:1098:731#0/1
`b``[__bb_¥b]V_b_Z]ab`aaba_Yab`b`^a]P^`¥
@HWI-EAS443:3:26:1222:1127#0/1
CTCTTGTTGGAAAGCTTCTCTTGAATCACTTTCTTTCC
+HWI-EAS443:3:26:1222:1127#0/1
ababbabbbbbbababbabbbabbbbaabbb_bbaaa
@HWI-EAS443:3:26:1246:620#0/1
AGGAAAGAAAGTGATTCCAAGAGGAAAGCTTCCACAAGA
+HWI-EAS443:3:26:1246:620#0/1
^baa^]aU^b¥N_`Y[aaX[`ab]`Y`Z_Za`]`]a^
@HWI-EAS443:3:26:1394:288#0/1
AGGAGTGGAGGAAATACCAATCAACAAAAGGCATCCGCAG
+HWI-EAS443:3:26:1394:288#0/1
_a__b]a^^bbb[^`]abb`b[a]N_aaaaa`aV_a^Ua
@HWI-EAS443:3:26:1491:1815#0/1
AGAGGAAAGAAAGTGATTCCAAGAGGAAAGCTTCCACAA
+HWI-EAS443:3:26:1491:1815#0/1
aaabbaaaa]a`[a]]`a[b_`ba]_a^[H]_aTL]Wa_
@HWI-EAS443:3:26:225:187#0/1
AGTGATTCCAAGAGGAAAGCTTCCACAAGAGGGTCCAG
+HWI-EAS443:3:26:225:187#0/1
a_]a]^a]a¥0_a^U¥][P[WU_Y_a[[[VWWZSSP_¥]V
@HWI-EAS443:3:26:430:375#0/1
CCGACATGCGAACAGAAGTTATAAGAATGATGGAAAGTGC
+HWI-EAS443:3:26:430:375#0/1
aabb`]]aaa`aa]]`a^aaaaa_aaaaaa`a`^a_
@HWI-EAS443:3:26:454:711#0/1
TTCGCATGTCCGATGTCCGTCCTTCATTGTTCCCGCTGAA
+HWI-EAS443:3:26:454:711#0/1
`a`b]a]`WabaaXVHY_WN_a`aX¥`a`_`SW]^`^`T
@HWI-EAS443:3:26:519:2035#0/1
ATCTCCCTTTTGAAGAGCAACCGTTATGGCAGCATTTCAG

+HWI-EAS443:3:26:519:2035#0/1
[W¥Z¥`^0¥UX_a`ZT]Xaaa[_WU_`^_BBBBBBBBBBBB
@HWI-EAS443:3:26:666:1000#0/1
AGTGATTCCAAGAGGAAAGCTTTCCACAAGAGGGGTCCAG
+HWI-EAS443:3:26:666:1000#0/1
a`]a]]`baaY]aa_^a]^`_^aaa`aa__^^__W^^__
@HWI-EAS443:3:26:72:94#0/1
GTCCAGATTGCTTCAAATGAGAATGTGGAAACCATGGACT
+HWI-EAS443:3:26:72:94#0/1
a_`_`a_UX¥`aa`X[aZ`X]SS¥`VVXPXH^TUU^ZV[[
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+HWI-EAS443:3:26:881:1061#0/1
aaa^`^Zab]aaaa]_``aa`aaaa_aaaa`aa_a_[]`
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AAGAAAGTGATTCCAAGAGGAAAGCTTTCCACAAGAGGGG
+HWI-EAS443:3:26:908:200#0/1
`_bbW[bXb`ba`aa¥Yaa_a`a_`YR]Sa]X``^_`^a
@HWI-EAS443:3:27:1014:331#0/1
GCTTTCCACAAGAGGGGTCCAGATTGCTTCAAATGAGAAT
+HWI-EAS443:3:27:1014:331#0/1
abbbb`baababaa_aa`_`aa`aaa_aa_aaaaaa_``
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+HWI-EAS443:3:27:1045:1195#0/1
aabaabaabaaa`a_baa_^^`a`aaaaa^X^a___^Z
@HWI-EAS443:3:27:1076:1685#0/1
TCTTGAATCACTTTCTTTCCTTTATGAACTTGATACT
+HWI-EAS443:3:27:1076:1685#0/1
^_X`¥_a`Va¥^a]N__^RQ[[[V^]a`^aa_`a_a^¥`W]
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+HWI-EAS443:3:27:1656:296#0/1
a¥abIb`^`aaaa`X^^^[a`aa_a_a___a]``_^VU[_
@HWI-EAS443:3:27:1681:762#0/1
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+HWI-EAS443:3:27:1681:762#0/1
aa`a_a]b_]a`Z`XX[`X``[VLJQXLSLRKIPTRV]YY
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+HWI-EAS443:3:27:318:673#0/1
]b`^babbbabaaaba]`abaa`bb`aaa``aaaa_a`_
@HWI-EAS443:3:27:353:536#0/1
AGTGATTCCAAGAGGAAAGCTTTCCACAAGAGGGGTCCAG
+HWI-EAS443:3:27:353:536#0/1
^JX[Y`_]____Q¥^]^^Z_`^_a]`S¥WU`_TYVUMY¥]_

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aabaabbb_R_aa_`^a_`a^`Y`a`a_`_]a^S^a^_
@HWI-EAS443:3:27:550:1344#0/1
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+HWI-EAS443:3:27:550:1344#0/1
a[¥]P_]_^aa`b_ZUaZ^^_]W_]^Z]^W¥^]ZXBBB
@HWI-EAS443:3:27:60:1483#0/1
ATCAAGTTTCATAAGAGGAAAGAAAGTGATTCCAAGAGGA
+HWI-EAS443:3:27:60:1483#0/1
a`b`^]aaba`Z`aaaa`aaa^]`^YaZ_]`^_Z_X`SUZ
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+HWI-EAS443:3:27:671:807#0/1
]aQ_a]abbaaX`S^`b`aaabaaa__Zaa`_aaUaa_`
@HWI-EAS443:3:27:674:596#0/1
GAGGAAATACCAATCAACAAAAGGCATCCGCAGGCCAGAT
+HWI-EAS443:3:27:674:596#0/1
aZ¥^^aaX`¥aW¥a`_`_____X``[Z`]`^_`^UQR[^TT
@HWI-EAS443:3:27:675:148#0/1
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+HWI-EAS443:3:27:675:148#0/1
]`a_abab``_b`a`a[`aaZa]`^_[`^^```[^X_Z
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GGCTTTGCACTTTCCATCATTCTTATAACTTCTGTTCGCA
+HWI-EAS443:3:27:714:1254#0/1
¥R^Yb[¥bbKY¥¥^¥`b_S¥ab^Z`¥__b^]abaa_aa`
@HWI-EAS443:3:27:75:1686#0/1
GGTCCAGATTGCTTCAAATGAGAATGTGGAAACCATGGAC
+HWI-EAS443:3:27:75:1686#0/1
a`]bb`a```aa[___T^b]¥`_a[aa]a`_Xa__a^^`aa
@HWI-EAS443:3:27:875:1407#0/1
CATCCGCAGGCCAGATCAGTGTGCAGCCTACATTCTCAGT
+HWI-EAS443:3:27:875:1407#0/1
a^`W^^]ZQ[_^`VQ_a¥P`WaX¥_]Q^[[^^_¥`MYS
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+HWI-EAS443:3:27:909:816#0/1
a`X¥_^]Z`Y`¥]_YXX]¥¥[NU¥SPaVVMQP[_[XPU[Z
@HWI-EAS443:3:28:1024:1139#0/1
GCCTTTTGTGATTGGTATTTCCCTCCACTCCTGGTCCTTA
+HWI-EAS443:3:28:1024:1139#0/1
Q_`¥aa]¥_T¥^```aZabbabbWV_aa¥¥0][XW]_^a^
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+HWI-EAS443:3:28:1037:482#0/1
aabbababbab`ababa`abaabbab`bb_aaaaaa[ab_
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+HWI-EAS443:3:28:1046:1757#0/1
aaab¥`bW_```a_adWa``_aa`W_```^a¥`a_`^X¥_
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+HWI-EAS443:3:28:1138:1463#0/1
a_P_X`a`a^Z^a¥QNYP^___YSYY¥¥XSP_MKKSUY¥B
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GGAGGAAATACCAATCAACAAAAGGCATCCGCAGGCCAGA
+HWI-EAS443:3:28:1231:113#0/1
aZ_bb^b_]`_a``aH^a^`_`_aYR]`^¥`T`_]SZ¥¥[
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+HWI-EAS443:3:28:1243:1920#0/1
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@HWI-EAS443:3:28:1294:1249#0/1
CTCTTGTGGAAAGCTTTCTCTTGAATCACTTTCTTTCC
+HWI-EAS443:3:28:1294:1249#0/1
a``a``^¥b`ZUU``bV^^```abaaaa¥a`aa_`b`a__
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AGTGATTCCAAGAGGAAAGCTTTCCACAAGAGGGGTCCAG
+HWI-EAS443:3:28:1353:1721#0/1
a_[`aaba`a`^a`__ba]a^_a__a¥a`V^S^Z_W¥U`^
@HWI-EAS443:3:28:1382:700#0/1
GCCTTTTGTGATTGGTATTTCTCCACTCCTGGTCCTTA
+HWI-EAS443:3:28:1382:700#0/1
a_a]]`a`[aa_a_a_] [a]`a`_VZ___NL[Z[GM^aY^
@HWI-EAS443:3:28:1431:1841#0/1
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+HWI-EAS443:3:28:1431:1841#0/1
_`^Vb[TX]N]aU`__`aWZ¥_]`]¥^TRSGNSUUUW]PS
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GGAGTGGAGGAAATACCAATCAACAAAAGGCATCCGCAGG
+HWI-EAS443:3:28:1442:1448#0/1
aa_aXa__a_[____`¥Q`Y^X_^Z__^^^ZV^¥YU^X[¥Z
@HWI-EAS443:3:28:1457:647#0/1
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+HWI-EAS443:3:28:1457:647#0/1
aabbb`bbbbbaabbabbbbab^aababbb`_ba_bbWb
@HWI-EAS443:3:28:157:1201#0/1
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+HWI-EAS443:3:28:157:1201#0/1
abaababab[aa`bbbaa_aaa`aaa]WVX][`V[___]0`
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+HWI-EAS443:3:28:1642:1764#0/1
`]a^ba¥^Sa[aaaa`aa_aZa^__`^`_`_] ^X^]^^_

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+HWI-EAS443:3:28:169:1490#0/1
`a`_Z`aaXab^]aaaa_`aa][`bb¥^JZ[`Z¥]YW_`
@HWI-EAS443:3:28:294:652#0/1
TGGAATCACTTTCTTCTTCTTATGAACTTGATACTCTT
+HWI-EAS443:3:28:294:652#0/1
a^_S_a_``````^^`ab`^a`^`_]`_]_a`aa_a_`aa`
@HWI-EAS443:3:28:458:1562#0/1
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+HWI-EAS443:3:28:458:1562#0/1
`ba`Tb`a^W¥^aa`¥ab_V`_`a__`a_]QZ__a`_Y[W
@HWI-EAS443:3:28:503:1983#0/1
GATTCCAAGAGGAAAGCTTTCCACAAGAGGGGTCCAGATT
+HWI-EAS443:3:28:503:1983#0/1
^[_`bbb`ab¥_aba_a_a``aa_`a[a¥WV_`^a`aVa]R
@HWI-EAS443:3:28:815:599#0/1
CATTGTTCCCGCTGAATGCTGCCATAACGGTTGCTCTTTC
+HWI-EAS443:3:28:815:599#0/1
^`ba_`_`bb^Y`baaabaabb^abbb`aa[aZS¥[a`aX
@HWI-EAS443:3:28:98:1412#0/1
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+HWI-EAS443:3:28:98:1412#0/1
aaaaa^¥aa_]`^`aaa]`_Ya```V]_¥`_X[^[a]V`__
@HWI-EAS443:3:29:1150:795#0/1
CAAATGAGAATGTGGAAACCATGGACTCCAATACCCTGGA
+HWI-EAS443:3:29:1150:795#0/1
a^^_S`WYP¥XXLW]LM_WZV^a]V]Y[¥YJ][_WZ¥¥[W
@HWI-EAS443:3:29:1245:1648#0/1
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+HWI-EAS443:3:29:1245:1648#0/1
abaa]b`a[baZaZaa^VYaaa`X_`aaXY`a`aba`_`[a
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AGGAAAGAAAGTGATTCCAAGAGGAAAGCTTTCCACAAGA
+HWI-EAS443:3:29:1258:1464#0/1
[_]aa_aaX¥[F^L[_^^[^`____``ZNX[[^``____XB
@HWI-EAS443:3:29:1372:684#0/1
GGACCCCTCTTGTGGAAAGCTTTCCTCTTGAATCACTTT
+HWI-EAS443:3:29:1372:684#0/1
ab`L_aa`aaa^_a_____]0_`a^`a____a]a_Z[____^
@HWI-EAS443:3:29:1432:1725#0/1
AGGCTGCACACTGATCTGGCCTGCGGATGCCTTTTGTGGA
+HWI-EAS443:3:29:1432:1725#0/1
`a[```a`a_]¥a`]T[aQ[Z^U[_¥^P[WZ_`a¥¥¥MR
@HWI-EAS443:3:29:1622:338#0/1
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+HWI-EAS443:3:29:1622:338#0/1
^Zabbab_bbb`aa]^]b`ab`aa__aaa`baaPbIaRTW
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+HWI-EAS443:3:29:1658:747#0/1
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@HWI-EAS443:3:29:1791:945#0/1
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+HWI-EAS443:3:29:1791:945#0/1
a__`aa`^_ba]``b__]_a`S]^X¥]UYabba`__¥B
@HWI-EAS443:3:29:523:1200#0/1
GCAGGCCAGATCAGTGTGCAGCCTACATTCTCAGTGCAGC
+HWI-EAS443:3:29:523:1200#0/1
aa`a_]``[Z^aa]_Z^aa`_aa`_¥_aa¥a``U___`[
@HWI-EAS443:3:29:605:1344#0/1
ATCAAGTTTCATAAGAGGAAAGAAAGTGATTCCAAGAGGA
+HWI-EAS443:3:29:605:1344#0/1
¥Z`^`_W¥]^a`baaa`Raaa¥^aaaWY`¥X^`a]O`OB
@HWI-EAS443:3:29:757:596#0/1
CTTCTGGCTTTGCACTTTCCATCATTCTTATAACTTCTGT
+HWI-EAS443:3:29:757:596#0/1
`¥X^`^X^baaQUZV_Z^`¥SGVHT]_a`YX¥`[I¥X[S[
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+HWI-EAS443:3:29:899:1095#0/1
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@HWI-EAS443:3:29:905:502#0/1
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+HWI-EAS443:3:29:905:502#0/1
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@HWI-EAS443:3:2:1102:969#0/1
GATTGGTATTTCTCCACTCCTGGTCCTTATGGCCCAGTA
+HWI-EAS443:3:2:1102:969#0/1
^RaaabaXb^a`RZVOR_`]YZ``V[^a¥Z¥UYZSRZ[NB
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+HWI-EAS443:3:2:1287:1291#0/1
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+HWI-EAS443:3:2:1558:548#0/1
a`Ybaaabaa`a¥`^`baa][Yaaa`_X`V_aa]_^a¥K
@HWI-EAS443:3:2:225:502#0/1
CAGCATTCCAGCGGAACAATGAAGGACGGACATCCGACAT
+HWI-EAS443:3:2:225:502#0/1
abbbb`a¥ab]b_b`a_a`aa_[[Y`R_aaaaa_^aROZ_
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+HWI-EAS443:3:2:437:808#0/1
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@HWI-EAS443:3:2:55:853#0/1
AAAGGCATCCGAGGCCAGATCAGTGTGCAGCCTACATTC
+HWI-EAS443:3:2:55:853#0/1
_aaaaabXX`X__aa_VHWQH_^`__V`QV^¥]^_Q_a`S

@HWI-EAS443:3:2:717:1767#0/1
CACATTCTCATTTGAAGCAATCTGGACCCCTCTTGTGGAA
+HWI-EAS443:3:2:717:1767#0/1
ab_V^aaa_[V`_aaa`Taa_R^^0_RLTY¥_ZNVO]^Z¥
@HWI-EAS443:3:2:792:107#0/1
CATTGTTCCCGCTGAATGCTGCCATAACGGTTGCTCTTTC
+HWI-EAS443:3:2:792:107#0/1
aabbbbb`a`bX^ba`ab^``_`aa_`_aaNa]N[]]a¥Q
@HWI-EAS443:3:2:99:476#0/1
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+HWI-EAS443:3:2:99:476#0/1
X¥_bbb^FZbZ__a`]SX[`¥^]]QZ¥YW_Q]Wa`]a_¥]
@HWI-EAS443:3:30:1004:1306#0/1
GGTGTGGATGGCATGCCACTCTGCTGCATTTGAAGATTTA
+HWI-EAS443:3:30:1004:1306#0/1
aaWaa`aa^b_`¥[``a]^U[Ya_`]_`aaXLU`_^^a`
@HWI-EAS443:3:30:1046:1144#0/1
GTGATTCCAAGAGGAAAGCTTTCCACAAGAGGGTCCAGA
+HWI-EAS443:3:30:1046:1144#0/1
a`a`baab_a`ba_ab_`aaaa_`a`a__a_`]¥NU^`_a
@HWI-EAS443:3:30:1053:69#0/1
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+HWI-EAS443:3:30:1053:69#0/1
aaa``aaaaa`aba`aaa_aX__^a]_a]a_aa^`Z_`_
@HWI-EAS443:3:30:1119:968#0/1
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+HWI-EAS443:3:30:1119:968#0/1
]VQ]TZ^]_`_a`a[XLa`¥V^ZNO¥[¥U¥^THU^SXVBB
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+HWI-EAS443:3:30:1177:699#0/1
aba`aaabaabbbbaaabaabaaaa`aaaaaaaa_Ua]a
@HWI-EAS443:3:30:1203:351#0/1
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+HWI-EAS443:3:30:1203:351#0/1
¥`bba_aa[Ya`]aa`aaba`]`aa```_aPa[[^Y_``
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+HWI-EAS443:3:30:1210:1577#0/1
`Y`_a_`Z_]`a`_^^[^¥WYQY`_]`_W^_¥ZZ^ZX^
@HWI-EAS443:3:30:1230:334#0/1
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+HWI-EAS443:3:30:1230:334#0/1
aabaaaabbaaa]`__abaaaaa__a`_aaaa`a^`^^a
@HWI-EAS443:3:30:1321:1732#0/1
AGTGATTCCAAGAGGAAAGCTTTCACAAGAGGGTCCAG
+HWI-EAS443:3:30:1321:1732#0/1
aa`bbaabbaaab``aaa^a``aaabaa`_`a__`Y¥]`a
@HWI-EAS443:3:30:1339:1809#0/1
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+HWI-EAS443:3:30:1339:1809#0/1
`YY[a`bb)`a_Z_aa[___a``UU^[¥Z_¥^a_R_^^^`_
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+HWI-EAS443:3:30:1344:1543#0/1
aaaaa¥aabaa`aaaaXaaaa`X____Z_U¥]a__^]`W]
@HWI-EAS443:3:30:1413:2024#0/1
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+HWI-EAS443:3:30:1413:2024#0/1
a_SX^bZV_ab`OYZY¥LT`¥[VTZNV[ZQRYX¥YYP
@HWI-EAS443:3:30:1479:1455#0/1
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+HWI-EAS443:3:30:1479:1455#0/1
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@HWI-EAS443:3:30:1613:519#0/1
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+HWI-EAS443:3:30:1613:519#0/1
abbbbabbabbbbbb`bbbbaab_ababaaaab_aZaaaa
@HWI-EAS443:3:30:178:1574#0/1
GTCCGATGTCCGTCCTTCATTGTTCCCGCTGAATGCTGCC
+HWI-EAS443:3:30:178:1574#0/1
`aba^ba`Z`b`Xba`aba`a__aba`a^_aZZ]`¥S`_
@HWI-EAS443:3:30:258:1255#0/1
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+HWI-EAS443:3:30:258:1255#0/1
]TYa_^a_]WL[ZT_WX^]__a]_¥]^^R[]GNHVYa[Y`
@HWI-EAS443:3:30:367:1330#0/1
AAAGTGATTCCAAGAGGAAAGCTTTCCACAAGAGGGGTCC
+HWI-EAS443:3:30:367:1330#0/1
X]aZ¥Y`aaZWQ_`_]`__a``^aa[a`YUK[^VXWZ]
@HWI-EAS443:3:30:386:609#0/1
GAAAGTGATTCCAAGAGGAAAGCTTTCCACAAGAGGGGTCC
+HWI-EAS443:3:30:386:609#0/1
aVaWbXa`aaaba]ZbTXZaaaa`_aaa`a____^^_W]
@HWI-EAS443:3:30:396:959#0/1
AGTGATTCCAAGAGGAAAGCTTTCCACAAGAGGGGTCCAG
+HWI-EAS443:3:30:396:959#0/1
`Y]^[a_abba`a]W^¥_Y]a_a`aa_a]Za^SV_W[_`_
@HWI-EAS443:3:30:474:999#0/1
GTCCGATGTCCGTCCTTCATTGTTCCCGCTGAATGCTGCC
+HWI-EAS443:3:30:474:999#0/1
a^aZ]W]b^Zb`_`^Q^baa^UR_^aa__XTY`[¥¥WNU_
@HWI-EAS443:3:30:494:1087#0/1
TTCATAAGAGGAAAGAAAGTGATTCCAAGAGGAAAGCTTT
+HWI-EAS443:3:30:494:1087#0/1
aa`_aa`a`aaa`a__aa_W_`^`aa`^a_¥`a_]_[]X
@HWI-EAS443:3:30:527:1203#0/1
GTCCAGATTGCTTCAAATGAGAATGTGGAAACCATGGACT
+HWI-EAS443:3:30:527:1203#0/1
aababaa`baaaaa`baa`_aaaa_a````aaa__`_]]

@HWI-EAS443:3:30:651:1478#0/1
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+HWI-EAS443:3:30:651:1478#0/1
aZ_aa_`a`_]`aab_aUa`b`a_aa``____`a¥^XOT_
@HWI-EAS443:3:30:738:330#0/1
GTTCGCATGTCCGATGTCCGTCCTTCATTGTTCCCGCTGA
+HWI-EAS443:3:30:738:330#0/1
aTS]X``__R_[^HRPWNLQQ_UZ^WW¥^QVZRZVZWMR_
@HWI-EAS443:3:30:910:692#0/1
AAGCTTTCCACAAGAGGGGTCCAGATTGCTTCAAATGAGA
+HWI-EAS443:3:30:910:692#0/1
aa`aa_`b_`aaaaR``¥`[aa`a]aW¥_``]aL^[]_]`
@HWI-EAS443:3:30:939:672#0/1
GCTTTGCACTTTCCATCATTCTTATAACTTCTGTTCGCAT
+HWI-EAS443:3:30:939:672#0/1
abbbbb_aabbbbbbbba`bbbbababbbb_b_a`ab
@HWI-EAS443:3:31:1237:316#0/1
AGTGATTCCAAGAGGAAAGCTTTCCACAAGAGGGGTCCAG
+HWI-EAS443:3:31:1237:316#0/1
abbb`b]baab`bbabbbabbaa_a_aaaaaaa]a^``
@HWI-EAS443:3:31:1268:691#0/1
ATCCGACATGCGAACAGAAGTTATAAGAATGATGGAAAGT
+HWI-EAS443:3:31:1268:691#0/1
¥¥^_[Z_]Z_^SWHO_aLNYX^^^aabWX¥bZSa^ZZ¥a[
@HWI-EAS443:3:31:1276:1523#0/1
GATTGCTTCAAATGAGAATGTGGAAACCATGGACTCCAAT
+HWI-EAS443:3:31:1276:1523#0/1
aUa]`[`Y^W0`¥Z][`aRW]aaa_a_Za[¥[^YYa[]
@HWI-EAS443:3:31:1765:1733#0/1
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+HWI-EAS443:3:31:1765:1733#0/1
^aabba`¥`_bbbaabbabb`bab`aT]`ab`a]_``aaa
@HWI-EAS443:3:31:226:118#0/1
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+HWI-EAS443:3:31:226:118#0/1
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@HWI-EAS443:3:31:304:574#0/1
GTTCCAGGGTATTGGAGTCCATGGTTTCCACATTCTCATT
+HWI-EAS443:3:31:304:574#0/1
a``aaWaaa]aaa`X`a_aaa[_]Ya_a`aZU_a_`ZN]`
@HWI-EAS443:3:31:469:478#0/1
GTGATTCCAAGAGGAAAGCTTTCCACAAGAGGGGTCCAGA
+HWI-EAS443:3:31:469:478#0/1
a`aa`a`aaa_a``aa`aa_a```]`^`^`_`^^XZZS[^X
@HWI-EAS443:3:31:928:613#0/1
GGAGGAAATACCAATCAACAAAAGGCATCCGCAGGCCAGA
+HWI-EAS443:3:31:928:613#0/1
ab`aa`a`a`b_a````^_a`^[_][____][____][____]
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CCAGGAGTGGAGGAAATACCAATCAACAAAAGGCATCCGC

+HWI-EAS443:3:31:969:1874#0/1
Q_¥_¥[a]aa`____^¥`bbbaaa`^bb_]^[U`__a]0
@HWI-EAS443:3:32:1005:905#0/1
CGCTGCACTGAGAATGTAGGCTGCACACTGATCTGGCCTG
+HWI-EAS443:3:32:1005:905#0/1
a_Y`_W_[aaa`aa`^¥`_]¥`¥^T^NXX^U[Ta]BB
@HWI-EAS443:3:32:1239:406#0/1
GTCCAGATTGCTTCAAATGAGAATGTGGAAACCATGGACT
+HWI-EAS443:3:32:1239:406#0/1
`_^aaa`a]aa^__`a`_`_`aV_a_]_]V]_]_]`
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CTTTCCACAAGAGGGTCCAGATTGCTTCAAATGAGAATG
+HWI-EAS443:3:32:1247:255#0/1
`Y]b]baaaaaabb_baa]]`ab`aaaa`aa^[`Y]aba
@HWI-EAS443:3:32:1315:1220#0/1
GAAAGTGATTCCAAGAGGAAAGCTTTCCACAAGAGGGGTC
+HWI-EAS443:3:32:1315:1220#0/1
abbaa]aaaa`aab_b__baaa_aaa^a`^a`a`_`_`_^_
@HWI-EAS443:3:32:1350:812#0/1
GTTCCGATGTCCGATGTCCGTCCTTCATTGTTCCCGCTGA
+HWI-EAS443:3:32:1350:812#0/1
a`aaaaab`RaZ_¥_JRZX_[N_a^V]aaXZ`_^[]_S_]`
@HWI-EAS443:3:32:1361:1244#0/1
AGCAGATACTGGCCATAAGGACCAGGAGTGGAGGAAATA
+HWI-EAS443:3:32:1361:1244#0/1
VZ`[ab_R[a__`Z`````aa^Q_a¥[]Q¥]¥][SU^a`
@HWI-EAS443:3:32:1434:85#0/1
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+HWI-EAS443:3:32:1434:85#0/1
`bbbb_]baaaaa__aWTU`aYX¥_0¥`PIT```O[KWY]_
@HWI-EAS443:3:32:1448:951#0/1
GCAGGCCAGATCAGTGTGCAGCCTACATTCTCAGTGCAGC
+HWI-EAS443:3:32:1448:951#0/1
aV]^Y[P¥XZZ`URPWW[QTBBBBBBBBBBBBBBBBBBB
@HWI-EAS443:3:32:1467:613#0/1
TGAAGATTTAAGAGTATCAAGTTTCATAAGAGGAAAGAAA
+HWI-EAS443:3:32:1467:613#0/1
_Z`^b`^_abaaa¥a`_aab`aa_¥_a`^aa`¥`_a_]`^
@HWI-EAS443:3:32:1478:1027#0/1
ATTTCCCTCCACTCCTGGTCCTTATGGCCAGTATCTGCTT
+HWI-EAS443:3:32:1478:1027#0/1
^`a¥_]`aaaZUZaYZWL^]]W]__UQX^¥]U_U]RZ¥BB
@HWI-EAS443:3:32:1750:1581#0/1
GTTTCATAAGAGGAAAGAAAGTATTCCAAGAGGAAAGCT
+HWI-EAS443:3:32:1750:1581#0/1
YL[S`aa¥`^aba^a_a]Z__TQV`_`RW¥^a^XX`ZaX`_`
@HWI-EAS443:3:32:418:204#0/1
GAAATACCAATCAACAAAAGGCATCCGCAGGCCAGATCAG
+HWI-EAS443:3:32:418:204#0/1
a`a`][aaa]aaV]^^[U^[¥][[]]__]W_VLU[]UWBBB

@HWI-EAS443:3:32:491:1816#0/1
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+HWI-EAS443:3:32:491:1816#0/1
aabbUQ_`aaa¥`aabaa__a_`XZRDK_YGS[ZWaYW
@HWI-EAS443:3:32:579:858#0/1
CCGACATGCGAACAGAAGTTATAAGAATGATGGAAAGTGC
+HWI-EAS443:3:32:579:858#0/1
abb`[L^_a]ZSPSW[YaS`_^R¥_I`_[]^`__aT0__
@HWI-EAS443:3:32:667:375#0/1
GTCCGTCCTTCATTGTTCCCGCTGAATGCTGCCATAACGG
+HWI-EAS443:3:32:667:375#0/1
a_]`_RZT`aU¥]¥[VX_``aZVU`Y_[ZRWW^`QTXQU
@HWI-EAS443:3:32:75:486#0/1
GATTCCAAGAGGAAAGCTTTCCACAAGAGGGGTCCAGATT
+HWI-EAS443:3:32:75:486#0/1
]_a¥abba¥_¥¥ZPZ[^X_^`_¥____]`_V]SX`a]IV`
@HWI-EAS443:3:32:82:1348#0/1
GTCCGATGTCCGTCCTTCATTGTTCCCGCTGAATGCTGCC
+HWI-EAS443:3:32:82:1348#0/1
_]babaa]`aa[`baaa]R^a]_aa`a]^_`a_V^¥¥ab
@HWI-EAS443:3:32:904:1416#0/1
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+HWI-EAS443:3:32:904:1416#0/1
a`a`a`a`_aaa__`a`Y]`_Z]]`_X`¥^^a]]_Y^W
@HWI-EAS443:3:32:950:709#0/1
AGCGGGAACAATGAAGGACGGACATCCGACATGCGAACAG
+HWI-EAS443:3:32:950:709#0/1
abbbbabbbbaaba`a^abba_aa__a_a_a_a^a```
@HWI-EAS443:3:33:1005:1851#0/1
AGTGATTCCAAGAGGAAAGCTTTCCACAAGAGGGGTCCAG
+HWI-EAS443:3:33:1005:1851#0/1
aZRUa`ababb_a___^`ZY`^Z^^bV`¥`]LMIRVXFY]
@HWI-EAS443:3:33:1048:1027#0/1
AACTGTCATACTCCTCTGCATTGTCTCCGAAGAAATAAGA
+HWI-EAS443:3:33:1048:1027#0/1
TT¥¥Uwba``aYZ`Y]_]`^`^a¥RYXW]a]NG^¥`_[X¥
@HWI-EAS443:3:33:1052:1438#0/1
CATCCGACAGCCAGATCAGTGTGCAGCCTACATTCTCAGT
+HWI-EAS443:3:33:1052:1438#0/1
ab_^¥FUXX[N_XRXU_PVJOVO]aXUY[XOQVQDU^ZZV
@HWI-EAS443:3:33:1128:599#0/1
GCAGATACTGGCCATAAGGACCAGGAGTGGAGGAAATAC
+HWI-EAS443:3:33:1128:599#0/1
``abaaaaaaa^aa`^`a¥^_`a`[aWaa¥¥`Y`____U
@HWI-EAS443:3:33:1157:924#0/1
ATTGCTTCAAATGAGAATGTGGAAACCATGGACTCCAATA
+HWI-EAS443:3:33:1157:924#0/1
aa^`bba¥aa]0]aa`aa¥a`a_a[Xa`__]X[S]¥^`]
@HWI-EAS443:3:33:1322:84#0/1
GAGAATGTAGGCTGCACACTGATCTGGCCTGCGGATGCCT

+HWI-EAS443:3:33:1322:84#0/1
aabS][b[WUX`VXZMPWK[ULSTBBBBBBBBBBBBBBBB
@HWI-EAS443:3:33:1376:1312#0/1
GACCCCTCTTGTTGAAAGCTTTCCTCTTGGAATCACTTTC
+HWI-EAS443:3:33:1376:1312#0/1
Y#aabbbabaaa]ba`_bbba_a`bb¥baaba``aaaab^
@HWI-EAS443:3:33:14:1555#0/1
GACCCCTCTTGTTGAAAGCTTTCCTCTTGGAATCACTTTC
+HWI-EAS443:3:33:14:1555#0/1
`]abbbabaa^^aa]_]`_`aaa`a__`]a]¥__`__a
@HWI-EAS443:3:33:1570:872#0/1
ATACCAATCAACAAAAGGCATCCGCAGGCCAGATCAGTGT
+HWI-EAS443:3:33:1570:872#0/1
`_^]V`^W]a]__`_a_TS[`TPU¥Z_[R^NKTWVYUMUQ
@HWI-EAS443:3:33:1659:809#0/1
GCCTTTTGTGATTGGTATTTCCCTCCACTCCTGGTCCTTA
+HWI-EAS443:3:33:1659:809#0/1
^a``aaa^_]_`ab_W_a``]^_R[[[R¥URXVPV¥]_
@HWI-EAS443:3:33:1676:203#0/1
GATTGCTTCAAATGAGAATGTGGAACCATGGACTCCAAT
+HWI-EAS443:3:33:1676:203#0/1
_bbba_bbaaaaaaabaa`^a`_^a]`__UXKMZZZ^]Z
@HWI-EAS443:3:33:169:1013#0/1
GTCCTTCAATTGTTCCCGCTGAATGCTGCCATAACGGTTGC
+HWI-EAS443:3:33:169:1013#0/1
a^bbbababb_b``baaaa``aa`aa`_aaaa`[^V]W`^_
@HWI-EAS443:3:33:258:389#0/1
CAGATTGCTTCAAATGAGAATGTGGAACCATGGACTCCA
+HWI-EAS443:3:33:258:389#0/1
aaabaa`baabbaaa]^a_aaa]a`a``__`_^]^__^__
@HWI-EAS443:3:33:686:393#0/1
CCCCTGAATGCTGCCATAACGGTTGCTCTTCAAAGGG
+HWI-EAS443:3:33:686:393#0/1
abbbbaabbbabaaaa_aaaaa`¥aaT`¥`a`H_]_0¥_
@HWI-EAS443:3:33:689:1412#0/1
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+HWI-EAS443:3:33:689:1412#0/1
^_[_ZY^a`aZ_WTXWFXYPW¥TSXa[aa_XRGNW]HYV
@HWI-EAS443:3:33:911:386#0/1
CACTTTCTTTCCTCTTATGAACTTGATACTCTTAAATCT
+HWI-EAS443:3:33:911:386#0/1
YaL¥[^`aa_Vba`aabbaZZ¥]bbabb¥a_HPbabH[YZ
@HWI-EAS443:3:33:99:1721#0/1
CTTGTGAAAGCTTTCCTCTTGGAATCACTTCTTTCCTC
+HWI-EAS443:3:33:99:1721#0/1
aa`[Yaaab`_b`aabbaba_]_aa``aa``a_a`_a__a
@HWI-EAS443:3:34:1110:1946#0/1
GTCCGTCCTTCAATTGTTCCCGCTGAATGCTGCCATAACGG
+HWI-EAS443:3:34:1110:1946#0/1
aa_ab`a_bbbbbbb_aaa_aaaab_aaa``_¥__a¥W¥Z

@HWI-EAS443:3:34:1164:1300#0/1
GGAGGAAATACCAATCAACAAAAGGCATCCGCAGGCCAGA
+HWI-EAS443:3:34:1164:1300#0/1
T`]R]W¥_H__`__R¥a`^ZZ`^_[aaY`[W[]]ZBBBB
@HWI-EAS443:3:34:1172:1177#0/1
TGAAGGACGACATCCGACATGCGAACAGAAGTTATAAGA
+HWI-EAS443:3:34:1172:1177#0/1
abababaabbbbaaba`ab`_b__aa`¥^a_a_a____]
@HWI-EAS443:3:34:1217:944#0/1
CGCTGCACTGAGAATGTAGGCTGCACACTGATCTGGCCTG
+HWI-EAS443:3:34:1217:944#0/1
aababba`bbab_Z`a^aa`^aa]¥YaSVV^¥U^Z^U[RP
@HWI-EAS443:3:34:1237:536#0/1
TGCATTTGAAGATTTAAGAGTATCAAGTTTCATAAGAGGA
+HWI-EAS443:3:34:1237:536#0/1
` `aabbaaabaabaaaaaab_aa`a`a^aa`aa__a^a[]
@HWI-EAS443:3:34:1310:1500#0/1
AGCAGATACTGGGCCATAAGGACCAGGAGTGGAGGAAATA
+HWI-EAS443:3:34:1310:1500#0/1
^`ZW_]^_ab]_a`a]baZaaa]U0¥`b_TKUSP¥__`Y
@HWI-EAS443:3:34:1412:895#0/1
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+HWI-EAS443:3:34:1412:895#0/1
^`bb`]aababbaaa_aabaa¥aaa_ab¥aa[`¥_Y]VX
@HWI-EAS443:3:34:1421:1299#0/1
GATTCCAAGAGGAAAGCTTTCCACAAGAGGGGTCCAGATT
+HWI-EAS443:3:34:1421:1299#0/1
a`aabbaaaaaaaa`_aaa_aa_`]____Y[NW^^[B
@HWI-EAS443:3:34:1612:1253#0/1
AGCAGATACTGGGCCATAAGGACCAGGAGTGGAGGAAATA
+HWI-EAS443:3:34:1612:1253#0/1
[``bbVbaa``aab`[``_``]a^Z[_S^aXZYBBBBB
@HWI-EAS443:3:34:1711:1130#0/1
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+HWI-EAS443:3:34:1711:1130#0/1
aaaabaab_a``]aaaaX`a`_¥[^ZZT¥S][^ZRKNSBB
@HWI-EAS443:3:34:264:503#0/1
GAGGAAAGAAAGTGATTCCAAGAGGAAAGCTTTCCACAAG
+HWI-EAS443:3:34:264:503#0/1
a[a`ab[aZZ^a¥a_aabaX[_aa^`a`_a__^`^aV__]
@HWI-EAS443:3:34:497:1129#0/1
GTCGGATGTCCGTCCTTCATTGTTCCCGCTGAATGCTGCC
+HWI-EAS443:3:34:497:1129#0/1
aa[¥W^[J^a[`W__^^^¥UXaXBBBBBBBBBBBBBBB
@HWI-EAS443:3:34:616:343#0/1
GAAAGTGATTCCAAGAGGAAAGCTTTCCACAAGAGGGGTC
+HWI-EAS443:3:34:616:343#0/1
abY_aYb]aaabba_a`a¥``__aa_aaa__`_^]VXYR
@HWI-EAS443:3:34:641:708#0/1
TTCCAGGGTATTGGAGTCCATGGTTTCCACATTCTCATTT

+HWI-EAS443:3:34:641:708#0/1
abbb_b]a^baaaaa^`baa`aa^aa_]Z]Z_a`__^__`
@HWI-EAS443:3:34:744:128#0/1
CTTTGCACTTCCATCATTCTTATAACTTCTGTTTCGCATG
+HWI-EAS443:3:34:744:128#0/1
aabb`baa`bbb`aa`abaaaaaaa`_aaaa`_^_X^__
@HWI-EAS443:3:34:758:994#0/1
AAGGACCAGGAGTGGAGGAAATACCAATCAACAAAAGGCA
+HWI-EAS443:3:34:758:994#0/1
`bb`abaa_Z^Y^^[aaaa```aa`_aa][`aU^ZTW¥
@HWI-EAS443:3:34:843:1579#0/1
GATTGCTTCAAATGAGAATGTGGAAACCATGGACTCCAAT
+HWI-EAS443:3:34:843:1579#0/1
¥____aZ_ba``____bba`[]a`_`¥a^[])`YX[M¥__
@HWI-EAS443:3:34:851:1041#0/1
ATCCGACATGCGAACAGAAGTTATAAGAATGATGGAAAGT
+HWI-EAS443:3:34:851:1041#0/1
^[^WPT]Y]_^VQZUJ¥a]aUaaQ^_aaa[[GGV_IYP`B
@HWI-EAS443:3:34:986:1089#0/1
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+HWI-EAS443:3:34:986:1089#0/1
_b^W_bbaVZaZ_aaa_bbaba]aS^Q`ab_ab`¥a¥Z[a
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+HWI-EAS443:3:34:998:402#0/1
a¥ORRYRT^]0[W^¥T¥]_TNOUOOFVLV[VNYYSO^BBBB
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+HWI-EAS443:3:35:1410:1686#0/1
[baabbbbaabaa`_a_babaaa`abaaaaaaa`aab_a
@HWI-EAS443:3:35:1451:315#0/1
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+HWI-EAS443:3:35:1451:315#0/1
abbbbbbbaabab`baabbaaa_a`^¥aa`_abaaa]N¥S`
@HWI-EAS443:3:35:1651:1215#0/1
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+HWI-EAS443:3:35:1651:1215#0/1
^¥UWb`_a`ab_aYYZ`¥N]a__`_^aP_aa`^][¥^[Qa
@HWI-EAS443:3:35:214:1525#0/1
TTCCCGCTGAATGCTGCCATAACGGTTGCTCTTCAAAG
+HWI-EAS443:3:35:214:1525#0/1
aabb`ba`bbaab__abba`aa`^`^`_aS]_``a__R]R
@HWI-EAS443:3:35:404:114#0/1
CAGATTGCTTCAAATGAGAATGTGGAAACCATGGACTCCA
+HWI-EAS443:3:35:404:114#0/1
]a``¥X`¥^bbbbb]bbbaaa^W_bXXT_]_]_W[T_``Y^
@HWI-EAS443:3:35:40:1024#0/1
ATCACTTTCTTCTCTTATGAACTTGATACTCTTAAAT
+HWI-EAS443:3:35:40:1024#0/1
aab`baa`bab`baaaa`aaa_W^_a^]H]aaaabaaa`_`

@HWI-EAS443:3:35:410:57#0/1
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+HWI-EAS443:3:35:410:57#0/1
a#b`bbbbbbbaabaabbaa__aab`a_``abaaaaa^`
@HWI-EAS443:3:35:676:131#0/1
CAGGGTATTGGAGTCCATGGTTTCCACATTCTCATTGAA
+HWI-EAS443:3:35:676:131#0/1
aUab`Wa_``aaa^`aaa`Yq]_T^W]a^`_]a`^[_
@HWI-EAS443:3:35:729:757#0/1
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+HWI-EAS443:3:35:729:757#0/1
`¥aa][HX`Y`aa^XYY__[[`_]`_`__ZU¥__^WYP
@HWI-EAS443:3:35:72:1479#0/1
TGTCCGCTCTTCATTGTTCCCGCTGAATGCTGCCATAACG
+HWI-EAS443:3:35:72:1479#0/1
`]^ba]_bbaaaZaaa`abbbaba`a`¥`]¥__ZZ^aaV
@HWI-EAS443:3:35:914:1746#0/1
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+HWI-EAS443:3:35:914:1746#0/1
^TQZaZ__ZU^`¥Q_ZH]¥TX[[ZUZ¥FFTZMLRKZRZT¥
@HWI-EAS443:3:36:102:381#0/1
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+HWI-EAS443:3:36:102:381#0/1
`a_^[_[_bbba[]_ZL^aa``aaaa^ba^]_]_a_Z^S
@HWI-EAS443:3:36:1220:1843#0/1
GATTGCTTCAAATGAGAATGTGGAAACCATGGACTCCAAT
+HWI-EAS443:3:36:1220:1843#0/1
aa`abaaabba_ababaa^Zaaaaa_a`a^``a_ba``
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GAAAGCTTCCACAAGAGGGTCCAGATTGCTTCAAATGA
+HWI-EAS443:3:36:1243:1711#0/1
ab_bbbabb`aaaaabaa_a^]`]aaaa`aa`^aa_a`_
@HWI-EAS443:3:36:1279:680#0/1
TTCATAAGAGGAAAGAAAGTGATTCCAAGAGGAAAGCTTT
+HWI-EAS443:3:36:1279:680#0/1
abbaa`ba^aa__aaa[a`]_R][`a¥`aa__a[_aa__
@HWI-EAS443:3:36:1329:103#0/1
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+HWI-EAS443:3:36:1329:103#0/1
aaaaaaba`aaa_`a_a_a]a]``aX`_¥^^]^___Z_
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+HWI-EAS443:3:36:1338:1101#0/1
aa`aaaaaa`_`a`_`_____]`_a`_¥__V^U^¥``¥¥
@HWI-EAS443:3:36:1348:1866#0/1
GGAACAATGAAGGACGGACATCCGACATGCGAACAGAAGT
+HWI-EAS443:3:36:1348:1866#0/1
a_^bba^_aaa^`]^`[]aa`_`_]`aY__a^^^a_Y_XZ
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+HWI-EAS443:3:36:1405:245#0/1
aa[[`]V_a[b[aaaaab`a[ZW`aba^a`aM^W`]a[_T
@HWI-EAS443:3:36:1493:580#0/1
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+HWI-EAS443:3:36:1493:580#0/1
abbabbaaaa_aabaH[ab¥^aXa`aXXSaaX]¥a`aQ[`
@HWI-EAS443:3:36:1741:292#0/1
CTCTTGTTGAAAGCTTTCCTCTTGAATCACTTCTTTCC
+HWI-EAS443:3:36:1741:292#0/1
a_^^¥_H^`^UZZW]¥]^Z¥`aZ[W_```XZVWW[PZQ]
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+HWI-EAS443:3:36:1792:364#0/1
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+HWI-EAS443:3:36:310:252#0/1
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@HWI-EAS443:3:36:39:1325#0/1
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+HWI-EAS443:3:36:39:1325#0/1
aba`baab^`baa`a_ba]_`a^W[QY^¥Y```__a`TR]S
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+HWI-EAS443:3:36:39:304#0/1
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+HWI-EAS443:3:36:877:257#0/1
aa`aaaaaaaa_a``aa___Y`_`___T_Z_W[ZW¥¥¥XW
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+HWI-EAS443:3:36:926:1709#0/1
¥^a_^^`__aa]¥¥b`^aa`^`a^[^b`__U]`W]_`ZVa
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+HWI-EAS443:3:36:937:1813#0/1
^``aa`bb_``aaaaa]a_a`a`^¥¥a^bab`aa^`abZ_
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+HWI-EAS443:3:37:1006:650#0/1
[KP`^¥_¥YVRY__YYNXLXPYV[^[[UHKU[ZYPYXZ
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+HWI-EAS443:3:37:1294:393#0/1
_Xa`]Z¥Ub^aaTa`¥V^QYPZ_a_a`__JHYTMNXMP^Z
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GACCCCTCTTGTTGAAAGCTTTCCTCTTGAATCACTTTC
+HWI-EAS443:3:37:1624:1589#0/1
^[Z_X[b_]`XX¥ZNYaa]TYUGX]__a¥IWZ`a__^`ZP

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abbbabaaP]aaaaaaaaaababa`b_]ba[0[aaa^a
@HWI-EAS443:3:37:168:1859#0/1
AGAGCAACCGTTATGGCAGCATTTCAGCGGGAACAATGAAG
+HWI-EAS443:3:37:168:1859#0/1
a_a]`aba`¥^`_¥[_aTLTQ[]TOTNVPZ^YHSNNT]U
@HWI-EAS443:3:37:211:175#0/1
CATTTCAGCGGGAACAATGAAGGACGGACATCCGACATGCG
+HWI-EAS443:3:37:211:175#0/1
ab^Ya]V_^a`_K¥^[[`aa^[_`_^]KV``]¥][WXaX
@HWI-EAS443:3:37:535:620#0/1
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+HWI-EAS443:3:37:535:620#0/1
]LU]Z_]Z`_[ZWaaaa¥N_^`Xa_a][PSY`^_]_[``P
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ACTCTGCTGCATTTGAAGATTTAAGAGTATCAAGTTTCAT
+HWI-EAS443:3:37:645:1554#0/1
aa_^__X````_^___WZ¥]_]_`¥VXGa[GSY¥]_]]
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CAGCATTTCAGCGGGAACAATGAAGGACGGACATCCGACAT
+HWI-EAS443:3:37:712:1785#0/1
Vba`bb^b`a^aa_babbaa`abba_]J`ba]baaab]_
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+HWI-EAS443:3:37:765:1171#0/1
]bbUUb__Yb¥QWaTWa_WaU_bb[]a`]YYaR^W[_aW¥
@HWI-EAS443:3:37:841:1871#0/1
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+HWI-EAS443:3:37:841:1871#0/1
a_bba]bbabb¥bb`Z_bbbabaaa_] [HU]aaa^^`Z_
@HWI-EAS443:3:37:972:491#0/1
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+HWI-EAS443:3:37:972:491#0/1
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+HWI-EAS443:3:37:979:882#0/1
aab`abb`V``aaa`a`aaa`a`Za^_]ZFS¥_a`^[^a`
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+HWI-EAS443:3:38:1012:149#0/1
abaaaba`_a¥aaaa`aa`^a^aaa`_`_U¥Z_] ^¥^`Z
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+HWI-EAS443:3:38:1184:831#0/1
^]abbbbaa^aa_Z`b`a]baabba]Y_^]`_``M_aZ
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+HWI-EAS443:3:38:1312:1051#0/1
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@HWI-EAS443:3:38:1349:357#0/1
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+HWI-EAS443:3:38:1349:357#0/1
aa_]Zb]^b`]a]W`_^a`XaaaXaa^[_Z_YaXXaX^V
@HWI-EAS443:3:38:1408:170#0/1
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+HWI-EAS443:3:38:1408:170#0/1
Z_b^]_]`aaXQYWZ_]`]¥WXaX¥]WWFOUW¥W^]ZZWT
@HWI-EAS443:3:38:1424:70#0/1
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+HWI-EAS443:3:38:1424:70#0/1
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@HWI-EAS443:3:38:1489:801#0/1
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+HWI-EAS443:3:38:1489:801#0/1
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+HWI-EAS443:3:38:1656:1011#0/1
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@HWI-EAS443:3:38:213:588#0/1
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+HWI-EAS443:3:38:213:588#0/1
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+HWI-EAS443:3:38:314:881#0/1
aa`b]a`_]`a]a`aa`aa`aYYba```_a_]¥`]`Y
@HWI-EAS443:3:38:349:37#0/1
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+HWI-EAS443:3:38:349:37#0/1
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@HWI-EAS443:3:38:396:2039#0/1
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+HWI-EAS443:3:38:396:2039#0/1
`ZRXXab¥aZ¥Y_GZUa`V^_a^_[P[]`_]QPWR__ZSTV
@HWI-EAS443:3:38:543:1026#0/1
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+HWI-EAS443:3:38:543:1026#0/1
a`a`aa[[]`aa`baaaa`a`aaaa`_a`b]Y^`X¥`a`_^
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+HWI-EAS443:3:38:608:1810#0/1
aa_^a_X]_V]_^WU¥UZ_^^[[]]S^`¥XM]]OUMUX]T
@HWI-EAS443:3:38:631:25#0/1
AGTGATTCCAAGAGGAAAGCTTCCACAAGAGGGTCCAG
+HWI-EAS443:3:38:631:25#0/1
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¥`abbbba]`aaab^``_]^0^`SV^UNVFY_ZVS_[U
@HWI-EAS443:3:38:79:1257#0/1
GAGGAAAGAAAGTGATTCCAAGAGGAAAGCTTTCCACAAG
+HWI-EAS443:3:38:79:1257#0/1
a``^aabaa[``]a_``aba[]`__^^^a]_`_a__a``Y
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+HWI-EAS443:3:39:1253:642#0/1
^DP[S]W]P`^[[`VS[¥a^¥_Y]][^_WRLVM¥NTNOMM
@HWI-EAS443:3:39:1350:530#0/1
CCGTCCTTCATTGTTCCCGCTGAATGCTGCCATAACGGTT
+HWI-EAS443:3:39:1350:530#0/1
aabbaabbbbb`bbbabbbbbbb`baaa_bab_ba``
@HWI-EAS443:3:39:1435:694#0/1
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+HWI-EAS443:3:39:1435:694#0/1
YYWV[Y_ZX[]^`WTTa^0__¥___]UYRORORT[MU¥YJ
@HWI-EAS443:3:39:162:220#0/1
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+HWI-EAS443:3:39:162:220#0/1
^abb]b_b`abaa`VZYR``T_aaXVX]`R_]`aa_aaZ^
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+HWI-EAS443:3:39:427:1056#0/1
``Vbbbbbb_bbb]bbbbbaabaabbbba_aaaa``a`
@HWI-EAS443:3:39:434:89#0/1
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+HWI-EAS443:3:39:434:89#0/1
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@HWI-EAS443:3:39:48:807#0/1
CAGGGTATTGGAGTCCATGGTTTCCACATTCTCATTTGAA
+HWI-EAS443:3:39:48:807#0/1
a^aaa[a````][]_aa]^``^_a`aa````^``_a^¥^_
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+HWI-EAS443:3:39:556:582#0/1
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@HWI-EAS443:3:39:568:1279#0/1
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+HWI-EAS443:3:39:568:1279#0/1
Y¥a_SSZabb¥T_US_a`_¥Z^ab_¥`^aa`^____¥`aR
@HWI-EAS443:3:39:654:1161#0/1
GAAAGAAAGTGATTCCAAGAGGAAAGCTTTCCACAAGAGG
+HWI-EAS443:3:39:654:1161#0/1
a```_UNX`_]`__`a`^¥_¥WUX_`]_]^^Z¥X]]_Z^Z
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+HWI-EAS443:3:39:659:1680#0/1
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+HWI-EAS443:3:39:805:1071#0/1
aaa`b]¥WaaYP_`U^Naa_¥Y¥a_a`aaaa]a_[P]^U^
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+HWI-EAS443:3:39:828:1955#0/1
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+HWI-EAS443:3:39:899:1578#0/1
abb_ba¥0_aab`^_W`]aa]a]aa_ZZ`aT_`T[[][X
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+HWI-EAS443:3:3:1024:168#0/1
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+HWI-EAS443:3:3:1024:782#0/1
M`a_bZX_b¥K^[^U^Vb_[OHSSa`PUa¥a_a_a_[aMF
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+HWI-EAS443:3:3:1150:1201#0/1
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+HWI-EAS443:3:3:1238:262#0/1
aa`aaaa_aa_a_a]_`a^a^`_V^__X__¥]^^_X]^^
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+HWI-EAS443:3:3:1529:434#0/1
ab^aaaaabaa`aZa`a¥¥aaa]]`_`_]XZUVVX[Z
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+HWI-EAS443:3:3:1611:907#0/1
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@HWI-EAS443:3:3:1652:99#0/1
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_`bbaaaa_aabbaba`bbb]b_`aba[aUa_YJ[XB
@HWI-EAS443:3:3:1748:2021#0/1
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+HWI-EAS443:3:3:1748:2021#0/1
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@HWI-EAS443:3:3:1785:1461#0/1
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+HWI-EAS443:3:3:1785:1461#0/1
ab_aabbaabaa`^a¥`baa`aa_aaa_a`]a`a`

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+HWI-EAS443:3:3:239:146#0/1
`ba¥Q]_`a_W]YK_^^aaa_W]aP`¥Y^^a_[a¥X^^U`
@HWI-EAS443:3:3:340:483#0/1
CTTGTGGAAAGCTTTCCTCTTGAATCACTTTCTTTCCTC
+HWI-EAS443:3:3:340:483#0/1
aaaaaaaaaX]aa`^_a___a__^]^^`¥_S_Y[U_]W
@HWI-EAS443:3:3:366:1632#0/1
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+HWI-EAS443:3:3:366:1632#0/1
Xa_bb`] `aabZb¥b¥`a`baaab_bbaababaaW`b`__
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GAACAGAAGTTATAAGAATGATGGAAAGTGCAAAGCCAGA
+HWI-EAS443:3:3:512:656#0/1
a``__a__b_aaa_`a^`aa_`a`_a_`[a_a^`[¥[_[
@HWI-EAS443:3:3:522:1350#0/1
TCCAGGGTATTGGAGTCCATGGTTTCCACATTCTCATTG
+HWI-EAS443:3:3:522:1350#0/1
`bb```a_abba^]_`_aa_ba]aaZ¥b0_____X_^a__
@HWI-EAS443:3:3:632:1061#0/1
GTTCGCATGTCCGATGTCCGTCCTTCATTGTTCCCGCTGA
+HWI-EAS443:3:3:632:1061#0/1
aaa`a_aaaaaa_`aZ¥_`¥]_`a]^`a_¥^W]S_V¥`¥
@HWI-EAS443:3:3:648:1216#0/1
GAAGATTTAAGAGTATCAAGTTTCATAAGAGGAAAGAAAG
+HWI-EAS443:3:3:648:1216#0/1
``¥¥`^^`ba`a`^a_aaaa`aa_`a`^a__a`a¥aa_`a
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+HWI-EAS443:3:3:833:227#0/1
¥ba¥ab`S`a_`¥b_bRbb_abb_a_aaba^`bb_`abaB
@HWI-EAS443:3:40:1040:1273#0/1
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+HWI-EAS443:3:40:1040:1273#0/1
`aaaabaa`_`¥J_¥_a_`aaaa`a^^`V¥````^_``^a_
@HWI-EAS443:3:40:106:477#0/1
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+HWI-EAS443:3:40:106:477#0/1
aaa_abaaaba_aa`a`a`Yaaaa_Xa_]`_a_]ZUU_`
@HWI-EAS443:3:40:1082:1366#0/1
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+HWI-EAS443:3:40:1082:1366#0/1
T___]ZY^^b¥ZZa^`^X_]_`XZ^Q^ROZZa]¥ZVU_`]
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+HWI-EAS443:3:40:1270:325#0/1
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+HWI-EAS443:3:40:1272:1660#0/1
ab_ababaaba`a_a_aa`aaaa__a_S¥`___a]a]a_
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+HWI-EAS443:3:40:1395:129#0/1
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@HWI-EAS443:3:40:1437:103#0/1
GACCAGGAGTGGAGGAAATACCAATCAACAAAAGGCATCC
+HWI-EAS443:3:40:1437:103#0/1
a¥__aa_PZN^a[a_S[_^RZT`YPKYZQ[^RZTSR[TKV
@HWI-EAS443:3:40:1533:417#0/1
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+HWI-EAS443:3:40:1533:417#0/1
aaba_a^a`a_a__a`_[¥`a___[Za_a^V_[_¥]SY^
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+HWI-EAS443:3:40:1561:1743#0/1
`Z_bb_XZ¥¥^aX__]¥Z`abaaaa`b`Uaa`]_aaa`
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GAGGAAAGAAAGTATTCCAAGAGGAAAGCTTTCCACAAG
+HWI-EAS443:3:40:1662:574#0/1
a_a__aaa^a``Ua_¥¥_UY^a_]G[]_Y]^^__^^^]
@HWI-EAS443:3:40:267:130#0/1
GGACCCCTCTTGTGGAAAGCTTTCCTCTTGAATCACTTT
+HWI-EAS443:3:40:267:130#0/1
a_Za``a[SS_ZT_X¥SV¥_S^]ZX^ZOZXXUXSZNTTYU
@HWI-EAS443:3:40:270:1853#0/1
CTGGCCTGCGGATGCCTTTTGTGATTGGTATTTCTCCA
+HWI-EAS443:3:40:270:1853#0/1
aaaabbaab```_aaaa`a^¥```_N_¥¥__a¥adWaa]
@HWI-EAS443:3:40:646:644#0/1
GAAAGTATTCCAAGAGGAAAGCTTTCCACAAGAGGGGTC
+HWI-EAS443:3:40:646:644#0/1
``aaaWa^_a_aa_T___`a`_`_`_]`P¥]_^SYZ]RKT
@HWI-EAS443:3:40:697:762#0/1
CTGCGGATGCCTTTTGTGATTGGTATTTCTCCACTCCT
+HWI-EAS443:3:40:697:762#0/1
a[`b`^[a_b^_Za`Z`]abaaZaV__aZxa[0^Z¥_Y
@HWI-EAS443:3:40:857:531#0/1
AAGAAAGTATTCCAAGAGGAAAGCTTTCCACAAGAGGGG
+HWI-EAS443:3:40:857:531#0/1
aabaa[b]baa`aaaa^aa`aa`__GZaa`_`[_^_]`^
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TTGCTTCAAATGAGAATGTGGAAACCATGGACTCCAATAC
+HWI-EAS443:3:40:871:897#0/1
XV^^]_aYU`USH^aaa^Va]¥a^XFLVZXOKQY^]TNXW

@HWI-EAS443:3:40:887:553#0/1
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+HWI-EAS443:3:40:887:553#0/1
aa`aaa``aaa`aaa`aa]a`__^^`aZ_]_a^_^S^^_
@HWI-EAS443:3:42:101:1347#0/1
CATCCGACATGCGAACAGAAGTTATAAGAATGATGGAAAG
+HWI-EAS443:3:42:101:1347#0/1
ababb^Va¥aVaaW[aQ_[_a]VR]LO^TN¥aX`aZ^]]_
@HWI-EAS443:3:42:1090:608#0/1
GGCATGCCACTCTGCTGCATTTGAAGATTTAAGAGTATCA
+HWI-EAS443:3:42:1090:608#0/1
a¥aaabaaa]`aaaa`a[^aaaa_`a¥`aa_`aaaZa_] ^
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CAACTGTCATACTCCTCTGCATTGTCTCCGAAGAAATAAG
+HWI-EAS443:3:42:113:1890#0/1
a¥`aS[^bb_abab``abababb]XSaa_]_]_^`_`b`]
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+HWI-EAS443:3:42:1198:2030#0/1
a`_`Y``T¥]^W[`aXa^^_a¥]^V[`a___^[Z¥XZ^__
@HWI-EAS443:3:42:1303:658#0/1
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+HWI-EAS443:3:42:1303:658#0/1
`a_bbabbabaabbbabaaaaaaa`abaaaaaaa^aaa
@HWI-EAS443:3:42:1314:592#0/1
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+HWI-EAS443:3:42:1314:592#0/1
abbbabbabbbabbabb`bab`abbaaab`aa__`b[a`_
@HWI-EAS443:3:42:1394:506#0/1
CGCATGTCGGATGTCCGTCCTTCATTGTTCCCGCTGAATG
+HWI-EAS443:3:42:1394:506#0/1
`bbbbbbabbbaba[aabaa`bba`aaba`a^¥a_aa^¥`a
@HWI-EAS443:3:42:1458:1218#0/1
TACCAATCAACAAAAGGCATCCGCAGGCCAGATCAGTGTG
+HWI-EAS443:3:42:1458:1218#0/1
`a`[YS¥`_`[]XS]YOS¥_¥YYZ^]^^`VYY[UTXRXRX
@HWI-EAS443:3:42:1508:1840#0/1
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+HWI-EAS443:3:42:1508:1840#0/1
^`bbaZaaabbbbaaaabaabaab`aaa``]aYa_YYUaa_
@HWI-EAS443:3:42:154:718#0/1
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+HWI-EAS443:3:42:154:718#0/1
_bbbbbbbaabbaaaa`aaaabbaabbaaaabba]ba`
@HWI-EAS443:3:42:1660:1586#0/1
GCCTGCGGATGCCTTTTGTGATTGGTATTTCCCTCCACTC
+HWI-EAS443:3:42:1660:1586#0/1
]b`_ba]X_]RX_`bbbbaa`^^a_XV]aaa¥¥_¥¥]aaZ
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+HWI-EAS443:3:42:1715:631#0/1
`[¥`¥abbZaabbabbbbaa`a`a_aaaaaaZ[P]__```
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+HWI-EAS443:3:42:206:359#0/1
a`bbbb`babbab^ab^a_abaa`_aaaaa^]aaaaZ
@HWI-EAS443:3:42:339:404#0/1
CAGGGTATTGGAGTCCATGGTTTCCACATTCTCATTTGAA
+HWI-EAS443:3:42:339:404#0/1
a`_ZXYba_U_ZVY^`baa`^a_[L_]`[^]¥a[V_T[
@HWI-EAS443:3:42:374:386#0/1
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+HWI-EAS443:3:42:374:386#0/1
a[aa_aaaabXQ`aaaaaaaa`_`_T____^`^`_`_¥
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+HWI-EAS443:3:42:392:91#0/1
aa__aa``aaaaa___`a__]^`^a]YaY`^`_¥_UZ^_]`
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+HWI-EAS443:3:42:499:373#0/1
aaaab_S]a[aXV^^`baUab_aaKT_QYMVZ_ZX^X[¥W
@HWI-EAS443:3:42:588:1125#0/1
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+HWI-EAS443:3:42:588:1125#0/1
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@HWI-EAS443:3:42:75:895#0/1
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+HWI-EAS443:3:42:75:895#0/1
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@HWI-EAS443:3:42:933:987#0/1
GAACAATGAAGGACGGACATCCGACATGCGAACAGAAGTT
+HWI-EAS443:3:42:933:987#0/1
^`U`^`^aa]VaX^a]^U`¥U[a]P^]a`_S_X]_aZ[^_
@HWI-EAS443:3:43:1011:639#0/1
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+HWI-EAS443:3:43:1011:639#0/1
a]aS][Q^aab`_`aa__`aSY_]_`^^Waa_]^[^`Y^TZ
@HWI-EAS443:3:43:102:1816#0/1
GAGGAAAGAAAGTGATTCCAAGAGGAAAGCTTTCCACAAG
+HWI-EAS443:3:43:102:1816#0/1
]a```b_V_a`````abb`baba^`¥^_]bbaababaa^]
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GAGGAAAGAAAGTGATTCCAAGAGGAAAGCTTTCCACAAG
+HWI-EAS443:3:43:1108:894#0/1
a]Z____a^a]aRa^`][_]__W`_]_[^]`R^UVZ[YX]W^
@HWI-EAS443:3:43:1225:1435#0/1
GTCCGTCCTTCAATTGTTCCCGCTGAATGCTGCCATAACGG
+HWI-EAS443:3:43:1225:1435#0/1
`a`a`Z``aabaaba```aa__aaaa[``[aZ^aa_]Ya`

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+HWI-EAS443:3:43:1267:1098#0/1
a`a^_^`^bbbbaaabab````bZ]a`Xab``¥a``]Vaa
@HWI-EAS443:3:43:1425:1691#0/1
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+HWI-EAS443:3:43:1425:1691#0/1
aaVaaabbaaa_aaa_a][[W¥`_`[_V^V^Z_W__Y¥¥
@HWI-EAS443:3:43:262:867#0/1
GGAAATACCAATCAACAAAAGGCATCCGCAGGCCAGATCA
+HWI-EAS443:3:43:262:867#0/1
aaababaaabaa_aaaaaX`aa`aaa]_`a]^`a`__
@HWI-EAS443:3:43:450:1030#0/1
AGGAAATACCAATCAACAAAAGGCATCCGCAGGCCAGATC
+HWI-EAS443:3:43:450:1030#0/1
Z¥b_Q_¥¥TH^`^Z`R^abaa]SZ[]^YUJV_`_Z_]S^H
@HWI-EAS443:3:43:501:900#0/1
GAAAGTGATTCCAAGAGGAAAGCTTTCCACAAGAGGGGTC
+HWI-EAS443:3:43:501:900#0/1
a¥aaaaabYaaaaa_a_a`a__aaa`_`a^^a`_^]WOW
@HWI-EAS443:3:43:516:1831#0/1
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+HWI-EAS443:3:43:516:1831#0/1
`bZaN_^_aa^baaa`_aa__a]T`_]¥]UZ¥¥Z¥¥_¥¥¥
@HWI-EAS443:3:43:529:228#0/1
CCGCAGGCCAGATCAGTGTGCAGCCTACATTCTCAGTGCA
+HWI-EAS443:3:43:529:228#0/1
aaa^^`ba`^b^]`a`U]^`¥`a``a¥_Y____`_¥_Q_Z^
@HWI-EAS443:3:43:557:982#0/1
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+HWI-EAS443:3:43:557:982#0/1
aa_a_aaa`bb^`b`aaaa`a_aaaa^a`a`Z¥]_¥`a`]
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+HWI-EAS443:3:43:668:698#0/1
¥]aa¥Q¥`_ZX_bb`baaa[baaaa^baaa¥]`^b^Z__
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GAGGAAAGCTTTCCACAAGAGGGGTCCAGATTGCTTCAAA
+HWI-EAS443:3:43:997:935#0/1
UQa__b`_`a_a`bbbaabaXaab_a[_¥Z`HHYbXaa^Y
@HWI-EAS443:3:44:1070:617#0/1
GAAAGAAAGTGATTCCAAGAGGAAAGCTTTCCACAAGAGG
+HWI-EAS443:3:44:1070:617#0/1
a^_`b`aaa`a_aaaa`_aa`_`a_a_aaa_a`_a`````_
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ATGGCATGCCACTCTGCTGCATTTGAAGATTTAAGAGTAT
+HWI-EAS443:3:44:1129:1494#0/1
aaaaabaabaaa`aa]aa_`aaa`_`aaaaba`aaa]aa
@HWI-EAS443:3:44:1166:992#0/1
CGGGAACAATGAAGGACGGACATCCGACATGCGAACAGAA

@HWI-EAS443:3:45:1356:1646#0/1
AGGAAAGAAAGTGATTCCAAGAGGAAAGCTTCCACAAGA
+HWI-EAS443:3:45:1356:1646#0/1
a^Waa^`aaa¥_OX]`a`a`aaa_`]]`aa_aa`^`a^
@HWI-EAS443:3:45:1386:334#0/1
CTGATCTGGCCTGCGGATGCCTTTTGTGATTGGTATTTC
+HWI-EAS443:3:45:1386:334#0/1
abbbbbbbbaaab`bb`ab]abbbbaabb_bbab`^aba^
@HWI-EAS443:3:45:1698:730#0/1
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+HWI-EAS443:3:45:1698:730#0/1
aaa`YbR^SaV[`¥¥¥X[___aaZWYQVU___]OOS^Y¥^]V
@HWI-EAS443:3:45:1735:735#0/1
CAGATTGCTTCAAATGAGAATGTGGAAACCATGGACTCCA
+HWI-EAS443:3:45:1735:735#0/1
abaababaaaaabaaba^aaab_aa`a`a`aa`____`_
@HWI-EAS443:3:45:270:425#0/1
ATCAACAAAAGGCATCCGCAGCCAGATCAGTGTGCAGCC
+HWI-EAS443:3:45:270:425#0/1
W^a]bT`aVWVa[SWV_a`ZWT[_¥Z`¥TM]FZYLRV^
@HWI-EAS443:3:45:409:391#0/1
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+HWI-EAS443:3:45:409:391#0/1
abbbbbbbabbaabbaabbabbbbaa_ababbabab`aab
@HWI-EAS443:3:45:563:999#0/1
GAGGAAAGAAAGTGATTCCAAGAGGAAAGCTTCCACAAG
+HWI-EAS443:3:45:563:999#0/1
`abaabbb¥]_b_aabaabba`b`aabb`aa`^^¥`_aa
@HWI-EAS443:3:45:838:1206#0/1
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+HWI-EAS443:3:45:838:1206#0/1
]aa]aV¥^`]]]a¥]Q__^aVZW]^¥Y]¥aYWXUXSZa_W
@HWI-EAS443:3:45:86:710#0/1
GACCCCTCTTGTGGAAAGCTTTCCTCTTGAATCACTTTC
+HWI-EAS443:3:45:86:710#0/1
abaaaabaaba`aaaaa`aaa_a`aaa`T`_aaaa
@HWI-EAS443:3:46:1005:895#0/1
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+HWI-EAS443:3:46:1005:895#0/1
Zaa_aaaaa`a_W___¥_aba__`a`^aa`_]_a`[_^
@HWI-EAS443:3:46:1013:1130#0/1
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+HWI-EAS443:3:46:1013:1130#0/1
aaabbbbbbabbbbabbbbabbb`a`bababbaabaaaaa
@HWI-EAS443:3:46:1081:595#0/1
ACCAGGAGTGGAGGAAATACCAATCAACAAAAGGCATCCG
+HWI-EAS443:3:46:1081:595#0/1
]`a_aa`b_bbaa_]_aa^]_^_a```a]¥_``]`¥]`
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CCCCTGAATGCTGCCATAACGGTTGCTCTTTCAAAAGG

+HWI-EAS443:3:46:1108:423#0/1
aabba][__^Zb_aa_]_`_aa`Y`aV¥¥]_aTKXSUU_a
@HWI-EAS443:3:46:127:1752#0/1
GTTCGCATGTCCGATGTCCGTCCTTCATTGTTCCCGCTGA
+HWI-EAS443:3:46:127:1752#0/1
a``_^]`a]]`_a¥YXWYWQ¥_[`SVV]¥RVZXV_ZSVXX
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AAGTTATAAGAATGATGGAAAGTGCAAAGCCAGAAGATTT
+HWI-EAS443:3:46:1306:719#0/1
Z¥¥_a]¥U]`Yaabab¥`_aaa_`^]`U_]``]U_``a[
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CATCATTCTTATAACTTCTGTTCCGATGTCCGATGTCCGT
+HWI-EAS443:3:46:1333:1006#0/1
a`ab`baabbabaa_bbaab_aaa_Ua`_aaa^]a][XFP
@HWI-EAS443:3:46:1429:1053#0/1
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+HWI-EAS443:3:46:1429:1053#0/1
ababbbabaabJ`a_¥ZXyaba^ZH]aGT]_T_¥¥`aN__
@HWI-EAS443:3:46:1497:680#0/1
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+HWI-EAS443:3:46:1497:680#0/1
aWX``R`[^]`Y¥]``_¥_]_V_]WWW^ZZWZ^]]XYR
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+HWI-EAS443:3:46:1503:26#0/1
ababbabbabbaabbbabaabb_a_^a`a[a_bba¥¥__
@HWI-EAS443:3:46:1725:81#0/1
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+HWI-EAS443:3:46:1725:81#0/1
[bb]b¥WZ¥PYJ`b`aZ[`a`Ya_a`aa`ZL^UaVaa[^a
@HWI-EAS443:3:46:330:1478#0/1
CCAGGGTATTGGAGTCCATGGTTTCCACATTCTCATTGA
+HWI-EAS443:3:46:330:1478#0/1
abab__V_a]]_^]R_aaaaa_aa¥^Z__aaaa`a``a_`
@HWI-EAS443:3:46:345:960#0/1
GGTCCAGATTGCTTCAAATGAGAATGTGGAAACCATGGAC
+HWI-EAS443:3:46:345:960#0/1
`___a^]a_aabaa`_aaZa`_a_aa^a_]^^^¥a``^^
@HWI-EAS443:3:46:654:352#0/1
TTATAACTTCTGTTCCGATGTCCGATGTCCGTCCTTCATT
+HWI-EAS443:3:46:654:352#0/1
ZXJ¥Ubb`_ZV_¥b^`^baa_a`aS_a_XX`_¥Y]_`[]
@HWI-EAS443:3:46:756:939#0/1
GCTTTCCACAAGAGGGTCCAGATTGCTTCAAATGAGAAT
+HWI-EAS443:3:46:756:939#0/1
aab[``_Y^R¥`a_Wa0`a_a_]`_]a__`U]a_a`_¥
@HWI-EAS443:3:46:791:919#0/1
TGATTCCAAGAGGAAAGCTTTCCACAAGAGGGTCCAGAT
+HWI-EAS443:3:46:791:919#0/1
aaaa`aa`aaa```_aa_aaaa``]_^`_]_^X^^^`^]

@HWI-EAS443:3:46:929:1678#0/1
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+HWI-EAS443:3:46:929:1678#0/1
abba_abRa^`a`aaa`b^aaba_`__^_a_a___^W^V
@HWI-EAS443:3:46:941:1603#0/1
AGGAAATACCAATCAACAAAAGGCATCCGCAGGCCAGATC
+HWI-EAS443:3:46:941:1603#0/1
S¥)`__W_abb]Y]WYa`_`WTO[[SZ]¥`SV[_¥Z[N
@HWI-EAS443:3:46:973:474#0/1
GCTTTGCACTTTCATCATTCTTATAACTTCTGTTCCGCAT
+HWI-EAS443:3:46:973:474#0/1
a`a``aaa]aaa`__a¥_aa_`aa``^aa^aa^a^a]`a
@HWI-EAS443:3:47:1034:1982#0/1
GAAGGACGGACATCCGACATGCGAACAGAAGTTATAAGAA
+HWI-EAS443:3:47:1034:1982#0/1
aa`^WU^`¥^`a`¥^a`aa][Z]0[V[a^^_RS^^[_^U]
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+HWI-EAS443:3:47:1056:1638#0/1
aabaaa`ba__¥_]__aaSXaa_aZ^`^]_`__`Z^^
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+HWI-EAS443:3:47:1134:1442#0/1
a__Waaba`b`Uabaaaa_aa]aa`bb]a_a[aVaUa]_a
@HWI-EAS443:3:47:1206:1029#0/1
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+HWI-EAS443:3:47:1206:1029#0/1
aaaaaa`b`aaaa_a]JTU^YY[R]^`[JUGY^PXQ¥S]B
@HWI-EAS443:3:47:1235:816#0/1
GAAGGACGGACATCCGACATGCGAACAGAAGTTATAAGAA
+HWI-EAS443:3:47:1235:816#0/1
_WZ``__b``¥VW``_X¥X^X`Z]]^Y]^Y[VVWX^]Y
@HWI-EAS443:3:47:1269:1096#0/1
GTCCAGATTGCTTCAAATGAGAATGTGGAAACCATGGACT
+HWI-EAS443:3:47:1269:1096#0/1
aaa`ab``]^`_aa]aaa_a``a__aX``^^]UZ^]`[PX¥
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+HWI-EAS443:3:47:1459:1439#0/1
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@HWI-EAS443:3:47:1601:587#0/1
CTTTCTTCTCTTATGAAACTTGATACTCTTAAATCTTC
+HWI-EAS443:3:47:1601:587#0/1
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@HWI-EAS443:3:47:1766:350#0/1
GTTCCAGGGTATTGGAGTCCATGGTTTCCACATTCTCATT
+HWI-EAS443:3:47:1766:350#0/1
a_^a^[aaaV__Z_^][ZV[¥_]Y^¥YRV[Y_^U¥WX_¥
@HWI-EAS443:3:47:247:1282#0/1
GTCGGATGTCCTTCATTGTTCCCCTGAATGCTGCC

+HWI-EAS443:3:47:247:1282#0/1
^abba[` _RHPX¥`]_ ^ ` _U]_ ¥ [REVZV` ¥ ` V_ ¥ZL
@HWI-EAS443:3:47:251:872#0/1
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aaa`b`a`a`] ``]aaa` `a^`_aa_a^^` ` _ []aZ` _a_
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+HWI-EAS443:3:47:346:194#0/1
`babaaa`aa`aaaaaa_ ^aa__ ` ^ ` _ ^ _ ^ _Z^^ _ ^
@HWI-EAS443:3:47:436:1633#0/1
TGGATGGCATGCCACTCTGCTGCATTTGAAGATTTAAGAG
+HWI-EAS443:3:47:436:1633#0/1
¥aa`ab`bbbVa`a_baa_T`baaabaa[a` `ba` `b_aa
@HWI-EAS443:3:47:466:260#0/1
GAAAGTGATTCCAAGAGGAAAGCTTTCCACAAGAGGGGTC
+HWI-EAS443:3:47:466:260#0/1
a_a_a^a_a`a` `__a_` _ `^`]_ ` `]_V_U^] ^] ^ ^ZY
@HWI-EAS443:3:47:526:1289#0/1
AGGCTGCACACTGATCTGGCCTGCGGATGCCTTTTGTGA
+HWI-EAS443:3:47:526:1289#0/1
aa_[aba__ ` ___U` ^aaa¥_[S¥a[N_`W¥V_a`QXaUS
@HWI-EAS443:3:47:603:1355#0/1
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+HWI-EAS443:3:47:603:1355#0/1
aa_^^^XZ¥` ^]X[Z`] [`baa__a` ` ` __XZX` ¥TXVU^
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+HWI-EAS443:3:47:674:1324#0/1
aa[babaabbaYa`aab`babba]Ka^aab_ `aa_]Z]aa
@HWI-EAS443:3:47:839:1064#0/1
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+HWI-EAS443:3:47:839:1064#0/1
`XU[KRTYZZ¥`_VPQT] `Za] [WX[^a^Q[_ZQX`SRY]U
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+HWI-EAS443:3:47:919:1902#0/1
abaaabbaabaa[aa¥aaa_[` _ `a¥] [Za¥^]Y^__WW¥
@HWI-EAS443:3:48:1086:65#0/1
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+HWI-EAS443:3:48:1086:65#0/1
aa_aa_a`a` [^ ` _a__¥[a`^^`¥¥` _ZV_WY` ^SR[_W
@HWI-EAS443:3:48:1231:1821#0/1
GTGATTCCAAGAGGAAAGCTTTCCACAAGAGGGGTCCAGA
+HWI-EAS443:3:48:1231:1821#0/1
a` ` ` _` _aaaa` _aaa__ [`] [[_ ` _` _` _` YVQVV¥` _]
@HWI-EAS443:3:48:1401:190#0/1
CGCTGAATGCTGCCATAACGGTTGCTCTTTCAAAGGGGAG
+HWI-EAS443:3:48:1401:190#0/1
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@HWI-EAS443:3:48:1467:1403#0/1
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+HWI-EAS443:3:48:1467:1403#0/1
`Y__ab_bbbb¥abbb_`b^`a_baa`baaa`aa`aaaa
@HWI-EAS443:3:48:1486:1043#0/1
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+HWI-EAS443:3:48:1486:1043#0/1
`aaa`¥Qa`aab`a_`a^aa`^aa^_[¥^a`]``_```__
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+HWI-EAS443:3:48:1567:103#0/1
a_a_¥Y`_ba[aa^__`]`]``Z_aOX_a`]OS[V^]_0¥
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+HWI-EAS443:3:48:1703:473#0/1
aababb¥ab`]ab`bbabb_aab]_aaabaPaaaa`W[^
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+HWI-EAS443:3:48:271:1974#0/1
`ba¥Qaaa]aaaa^_abbaa_`b^^aa[aa`GTaa_Xa__
@HWI-EAS443:3:48:349:349#0/1
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+HWI-EAS443:3:48:349:349#0/1
``aabbaa`baaab[baab_``a_`a_¥`TYa____a]]S
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+HWI-EAS443:3:48:466:889#0/1
aX[Z0^a[V^`^`U¥_`UTV`SWYVQSVYLSWU¥^Z^SVU
@HWI-EAS443:3:48:472:1291#0/1
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+HWI-EAS443:3:48:472:1291#0/1
^X¥ZRUY[_VO_VZ^Y^VWZZ]_a]]Y[_]_aa_Z[]^Z
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+HWI-EAS443:3:48:593:320#0/1
a¥YP_`a`Q_b_`Va`_QRZ]S`__`_`]`_`_`_`¥^_Z
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+HWI-EAS443:3:48:78:520#0/1
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@HWI-EAS443:3:48:99:700#0/1
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+HWI-EAS443:3:48:99:700#0/1
a¥`aaaaaab``aa`aaaa^^]`¥_a__``Y^¥]^[] [R
@HWI-EAS443:3:49:1030:564#0/1
GGATGGCATGCCACTCTGCTGCATTTGAAGATTTAAGAGT
+HWI-EAS443:3:49:1030:564#0/1
`ba`baaaa^b^`Zaba`]^`_¥aaa_I``Y`_UY`_```
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+HWI-EAS443:3:49:1227:1025#0/1
abbbabb_bbb_abb_`aaab`abaab[abbabbbaa^XV
@HWI-EAS443:3:49:1450:883#0/1
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+HWI-EAS443:3:49:1450:883#0/1
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+HWI-EAS443:3:49:154:904#0/1
a[bbUH`a_]aa¥¥b]^`^`¥_aa`aaaa]aa_aaa`b__
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+HWI-EAS443:3:49:1590:550#0/1
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GAGCAACCGTTATGGCAGCATTGCGGGAACAATGAAGG
+HWI-EAS443:3:49:1620:991#0/1
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+HWI-EAS443:3:49:281:1099#0/1
^^Rbaba`aa]aa[T¥aaa`aa^]_a_a``aa`]^_^[
@HWI-EAS443:3:49:324:1504#0/1
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+HWI-EAS443:3:49:324:1504#0/1
¥YX`bU_Ua^^^HR_¥`abVD]`UTHaVT_a`]WQ`]UVN
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a]__`[_[`HJZ]]Y`VR[[LVUZZ¥¥SR`QPXTN]`Y^
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+HWI-EAS443:3:49:545:1563#0/1
a_b]bab_]aaa_a[`Yba_a]^aaaaT]`[aZ¥^[_`a_
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+HWI-EAS443:3:49:546:1653#0/1
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@HWI-EAS443:3:49:563:1799#0/1
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+HWI-EAS443:3:49:563:1799#0/1
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@HWI-EAS443:3:49:642:124#0/1
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+HWI-EAS443:3:49:642:124#0/1
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aabaab_aba`ba`aab`aaa`^a_`^a`aa]¥^^¥aa`
@HWI-EAS443:3:49:891:236#0/1
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+HWI-EAS443:3:49:891:236#0/1
a]bbTbaaaaaa`_`aaaa`_]`a`__`]^^^`]^_ZRV`
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+HWI-EAS443:3:49:918:1345#0/1
a`bb^`[`ababab_ba_a`aaaab`a`a_a_aa_]`^`_]_a
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+HWI-EAS443:3:49:959:299#0/1
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+HWI-EAS443:3:49:983:829#0/1
a^_`bbb`bbababbbbaabbbbaababbbabbaa_aa`
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+HWI-EAS443:3:4:1036:270#0/1
a```a^_[_]`aYPKNYT]]VNZ]]VWXP¥UUY]]U
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+HWI-EAS443:3:4:1039:611#0/1
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+HWI-EAS443:3:4:1086:651#0/1
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@HWI-EAS443:3:4:1143:1345#0/1
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+HWI-EAS443:3:4:1143:1345#0/1
a_baa_aaababaaaU]a`Ya``abaaaTaq]XZZ[aZ_^]
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+HWI-EAS443:3:4:1160:1769#0/1
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+HWI-EAS443:3:4:1222:996#0/1
ababaaaa_ba`a`a_aaaaa_aa_a_a_a_a`]]]_]a`
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+HWI-EAS443:3:4:1263:1125#0/1
abbabbbbaa`bbaabbabaaba`aaa_`baaaaa_`a
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+HWI-EAS443:3:4:1507:1354#0/1
]aaaa`b]aa`aaa^__]a_[^)``__^aZaZ_^ZZH_QB
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+HWI-EAS443:3:4:1545:1838#0/1
UXY)_T)`aaa_[`[aaaaUXU^__R¥_Y^_^ZROX0]O_
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+HWI-EAS443:3:4:1672:889#0/1
^`babbb`YU[¥VabaaZ]aaUbJ)`abaa_a_]GG__aH
@HWI-EAS443:3:4:201:1060#0/1
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+HWI-EAS443:3:4:201:1060#0/1
a_aa¥_`^`^R^^^]a^WQPQZ^¥]^^`_]WUYQZ^
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+HWI-EAS443:3:4:514:1136#0/1
__X`ZX)`[^T_ZYX[^a_`W`NS^]U_TNT__]__¥_
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+HWI-EAS443:3:4:585:1375#0/1
aa][W]¥V^`PT_aT¥__aYYV_VQNa]UGWY[YRVMSV
@HWI-EAS443:3:4:624:190#0/1
GATTGCTTCAAATGAGAATGTGGAAACCATGGACTCCAAT
+HWI-EAS443:3:4:624:190#0/1
aaaab`aa`baaaa`aa`a^`aa0[aVaa____]]^^_
@HWI-EAS443:3:4:736:931#0/1
TCCAGATTGCTTCAAATGAGAATGTGGAAACCATGGACTC
+HWI-EAS443:3:4:736:931#0/1
aa_a`a`_aaaa`a`[^__a^^V`__^T¥``__ZYZ
@HWI-EAS443:3:4:854:1606#0/1
GAAATACCAATCAACAAAAGGCATCCGCAGGCCAGATCAG
+HWI-EAS443:3:4:854:1606#0/1
a_baaaaab_aa`aZaaa`^U`]]]]]_^_VP¥]]^BBB
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+HWI-EAS443:3:4:884:391#0/1
abbbb`bbb``bbbbabbaba_bb^¥`a)``aa`__^__
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+HWI-EAS443:3:4:964:1881#0/1
`V^^`]^`^`a_a^`_N¥_U]X_^_R_ZUNNTNNU^BB
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+HWI-EAS443:3:50:1034:1465#0/1
a`WYOTZ^Q¥__R`XY]_US[W¥YZ]]Z_]¥¥`a_U_a
@HWI-EAS443:3:50:1037:205#0/1
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+HWI-EAS443:3:50:1037:205#0/1
I_Ta^^`¥a¥`^bbab`bbb¥a`]^a`^[Sa¥ZYbbaXaa

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+HWI-EAS443:3:50:1046:1925#0/1
abUb`ba`a`a_a``aaaa__aa_^aXaa_`^^_X]U`_
@HWI-EAS443:3:50:1072:1695#0/1
CAAAAGGCATCCGCAGGCCAGATCAGTGTGCAGCCTACAT
+HWI-EAS443:3:50:1072:1695#0/1
[_^___^Wb`ZX_¥b_T[¥_JZXZTR`M_X^`a^][M^a
@HWI-EAS443:3:50:13:1179#0/1
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+HWI-EAS443:3:50:13:1179#0/1
_^W_aba^WG]Q_XSR_]¥Z^_ba^X_a`b`b[ZLZ^Waa
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+HWI-EAS443:3:50:1413:48#0/1
aba^babab`ba_aa`bb¥ba`V`Z[b`U¥[_baa[[`a[
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+HWI-EAS443:3:50:1422:114#0/1
a^aba_`Y^`aaa`ab^^_aa`aa¥¥__^aaa¥]V]Y[XX
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+HWI-EAS443:3:50:383:526#0/1
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@HWI-EAS443:3:50:406:577#0/1
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+HWI-EAS443:3:50:406:577#0/1
a]^`baba`^aaaa_]a_a]^`^`_b_^_Z_aaa^_]`R^_
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+HWI-EAS443:3:50:827:509#0/1
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+HWI-EAS443:3:50:885:1986#0/1
`aaa`Yabb``baa¥b`Z^`bT`^^_aaa_]YZ`[a__^
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@HWI-EAS443:3:51:1272:828#0/1
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+HWI-EAS443:3:51:1272:828#0/1
]bbbbaba`aba`a_aa`a___aa]¥`aaa¥_`aa_W[_
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+HWI-EAS443:3:51:1422:1723#0/1
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@HWI-EAS443:3:51:1705:1052#0/1
GAAAGCTTTCTCTTGAATCACTTTCTTTCTCTTATGA

+HWI-EAS443:3:51:1705:1052#0/1
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+HWI-EAS443:3:51:187:150#0/1
aY]aaZ`XRLS]XUR_] [U^`_Z_^UZ^^ZZZWRRNTU
@HWI-EAS443:3:51:524:709#0/1
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+HWI-EAS443:3:51:524:709#0/1
Sabb^^Z_a_¥¥`baa]a`_]_]T[a`aaba_`^]T]a
@HWI-EAS443:3:51:588:37#0/1
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+HWI-EAS443:3:51:588:37#0/1
abaa`aaa`aba_aa`aaa_aa_¥^`]aaaa`_a[_¥a`a
@HWI-EAS443:3:51:894:1646#0/1
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+HWI-EAS443:3:51:894:1646#0/1
_``aaaaaa^^`]aaaa[``[SYX^`a^`]`]`ZZ[Z
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+HWI-EAS443:3:51:959:155#0/1
`a^Q`_a__a]aWWZ``]`b]a¥a__^`_aa^`_aa]Ra^
@HWI-EAS443:3:52:1000:775#0/1
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+HWI-EAS443:3:52:1000:775#0/1
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+HWI-EAS443:3:52:1039:1805#0/1
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+HWI-EAS443:3:52:1091:793#0/1
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+HWI-EAS443:3:52:1116:971#0/1
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+HWI-EAS443:3:52:1173:268#0/1
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aYa_`a`aa^`[``]``_Y__`X¥^^`_V^`XYYY_V]^]
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+HWI-EAS443:3:52:1275:466#0/1
`aaa[T`R[F_aaa^`aa¥aY`a¥_aa`M`__Z`[SXVZ

+HWI-EAS443:3:52:668:59#0/1
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ATTGCTTCAAATGAGAATGTGGAAACCATGGACTCCAATA
+HWI-EAS443:3:52:678:1271#0/1
a^]aa¥`a_]_X¥Y_aba]a````[_`_Z¥[aa][¥_`a
@HWI-EAS443:3:52:737:28#0/1
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TYV```a`aWaaaba_b]_ZaZb`b`a]aa^¥abb_ba^a
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+HWI-EAS443:3:52:875:2018#0/1
_a_aZLUaa[aYa`_`a^^`__R`__^___^^[_NOU^^_
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+HWI-EAS443:3:52:90:818#0/1
aaabba`aaaa`^^[b`aa_aaab`aa_a_`]aa``_`
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+HWI-EAS443:3:53:100:1141#0/1
aa[`a`a`]R_Z``_`a^__`__[a__¥a`¥¥`Z_[¥¥[V
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+HWI-EAS443:3:53:1040:540#0/1
_b_Z```aa`baa_abb_U`[aaaa^]^[Y`aZ`aQaaY`^
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+HWI-EAS443:3:53:1230:1020#0/1
a_V¥bb^ba`^^^UXb_a]_a``[¥a`]`_a_a^¥G_a_
@HWI-EAS443:3:53:1427:1495#0/1
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+HWI-EAS443:3:53:1427:1495#0/1
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a¥]a`VbbS^abb^aab_abba]bab]bb`baa`abaa`a
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GCTTTCCACAAGAGGGGTCCAGATTGCTTCAAATGAGAAT
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a_aaaa_aa`aa`a``Y]X__^^`_^`^]]^`_]]__]]]
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ab_aaa]a[_a_a_]___^`a__`¥¥`V]aZUUV[QXSW
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+HWI-EAS443:3:53:669:1124#0/1
``babbabaa`_]_bb_¥aXbaab^bbabaaaaaa`aa
@HWI-EAS443:3:53:702:26#0/1
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+HWI-EAS443:3:53:702:26#0/1
aba`baa`aabbb_aabaaab`_`abb`b`ba_ba]_``_
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@HWI-EAS443:3:54:1035:842#0/1
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+HWI-EAS443:3:54:1035:842#0/1
a_^]baa`ab_[aa__`_]`ZX_WP¥aaaP``]a_a`]
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+HWI-EAS443:3:54:1103:1811#0/1
`YWZ^0_SXZbaW]^`^]___¥_`_¥aNTZ^_^[]_T]^
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¥XZa^a]___b`aa¥bb`_^a_aaa__a[aaa`a`a^_``
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+HWI-EAS443:3:54:115:1639#0/1
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+HWI-EAS443:3:54:1354:817#0/1
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+HWI-EAS443:3:54:289:1412#0/1
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+HWI-EAS443:3:54:414:638#0/1
_aab[``_b`_b[aa]^aa`^)`^¥a_a_aab]a_____a`
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a`Z``^a```^aaaaa¥¥]^`^]Y_Y_`ZT`a`NUZXV`
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+HWI-EAS443:3:54:835:661#0/1
a`ZQV_bZaX¥a_a[[a[_SbZ_bZ_b_^aaa_a__aR¥R
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+HWI-EAS443:3:54:868:2023#0/1
aaa_aa_b`a`^a`aa`a^¥a_[a`a__``a_a`_``aaU
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+HWI-EAS443:3:54:892:230#0/1
[^`^aX``aQaTba]b`¥bbT¥aaYQ]__`_^`¥_YO[Z]
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+HWI-EAS443:3:55:1085:1383#0/1
a`_a¥ba]R_b]_]_]P_[^aaaa^)^UX_¥aa`^`a]WT
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+HWI-EAS443:3:55:1089:1948#0/1
a_`]a`aY^^YY_^[ZVa_RV[YXY_WVY]OX]¥^S^V^S
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+HWI-EAS443:3:55:1136:279#0/1
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+HWI-EAS443:3:55:1156:1180#0/1
aaaW]a`]ZY][__YZV_]RTa__X`]^^S^SVQ_Y¥PPX
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+HWI-EAS443:3:55:1178:1086#0/1
b`aaababb``abaaabbaaaaa`baaaa`a`a^Xa
@HWI-EAS443:3:55:1282:355#0/1
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+HWI-EAS443:3:55:1282:355#0/1
abV`aaa`aaTa`__`a`[aW`Wa`__K¥aa`aaa]a_a0
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+HWI-EAS443:3:55:1335:1081#0/1
``_TRb`ba_[a`a^Xaa^``¥I_a`_aa¥aaabX`aaWM
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+HWI-EAS443:3:55:18:1289#0/1
aabaaaaa¥aaaa^_J_abba`_aaa^aaa`a^`aa
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+HWI-EAS443:3:55:352:191#0/1
aa`aaaa`aa^aaaa^aa`____[^_^_^]`]UW[_][
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+HWI-EAS443:3:55:378:1612#0/1
`a`b]baaZ_b___aaaaa^a^b`a_aaaaa_aZaZ_¥
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+HWI-EAS443:3:55:532:639#0/1
`baaabba_`bba`baabbY```a¥aaaaba_`a``]_`a
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+HWI-EAS443:3:55:692:433#0/1
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@HWI-EAS443:3:55:782:184#0/1
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+HWI-EAS443:3:55:782:184#0/1
`[_aV]aTba¥_V_[^`Naa```aa_a_aaa`^aa[_aX
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]X¥]^aZTWT]QX`_Z_[S^a][^^UaY_`]^^^`[[[XY
@HWI-EAS443:3:56:1030:1287#0/1
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+HWI-EAS443:3:56:1030:1287#0/1
abaaabaabbbaaba`aaa^]_R]]b_Zaaa]`a^^aa¥^
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GAAAGTGATTCCAAGAGGAAAGCTTTCCACAAGAGGGGTC
+HWI-EAS443:3:56:1050:710#0/1
aa`a```V_aaaaaa```_a`a`Z___aZa]_]_]¥
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+HWI-EAS443:3:56:1155:257#0/1
aaba_abaa`baba`aaaa_aa`__a___a_a_`_`^`a
@HWI-EAS443:3:56:1437:1057#0/1
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+HWI-EAS443:3:56:1437:1057#0/1
aa`_abaa`aaa^`a_aa`a_]`^]`a¥_`^]`^]¥^]_
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+HWI-EAS443:3:56:147:1301#0/1
`aa`^_aa]SZ`_aa]]_Za^ZLY¥_Y¥a¥V¥¥¥[YYUTT
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+HWI-EAS443:3:56:1482:1218#0/1
`¥S]UNV`¥Y`Y[JWYabaaQPq]S_aNaa^ab^b`_b]¥
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+HWI-EAS443:3:56:1519:1235#0/1
Ua]¥Q_¥RZ^`^^`]^aa^X_aa_aY[`_aXS^aaV`^`a
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+HWI-EAS443:3:56:1552:233#0/1
__^_Ybaa_aa`¥_baYb`U^¥_a___`a_T]]`UZ`_a^
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+HWI-EAS443:3:56:1610:97#0/1
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+HWI-EAS443:3:56:1688:627#0/1
aaa`abaa¥b`b`aY_aa_]abaa]]`aaa`aa`a^`^`^
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+HWI-EAS443:3:56:196:937#0/1
babb`aab``bb]baaab`aa`[ba]a¥baaa`_`[``a
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GCAGGCCAGATCAGTGTGCAGCCTACATTCTCAGTGCAGC
+HWI-EAS443:3:56:459:79#0/1
aaaab`a`[a`_b_a^aa`a[``^¥¥a`[`^[_Y`[^_¥

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GATTGCTTCAAATGAGAATGTGGAAACCATGGACTCCAAT
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aaaaa_ba_aa^a`aaUaaY_`]]_]^`a]]]]_]]_]
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a_] [aa`aY`a`¥`a_]_^aa`b[]aYa`RaM`__]S_
@HWI-EAS443:3:56:559:460#0/1
GACCCCTCTTGTGGAAAGCTTTCCTCTTGAATCACTTTC
+HWI-EAS443:3:56:559:460#0/1
a`X__aaaaaY^X¥__a````_^a^_aa]^`^^`^^`_`a]
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+HWI-EAS443:3:56:65:1983#0/1
`OROY^`a^V[XQYa]X_S[¥WWW¥_VYY[¥TY¥MVVWXZ
@HWI-EAS443:3:56:831:1190#0/1
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+HWI-EAS443:3:56:831:1190#0/1
[ZZ¥_LZa`T¥_a_Z``]]`[Y]`YZQUZ¥U_Z]¥`UY¥
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+HWI-EAS443:3:57:1123:746#0/1
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+HWI-EAS443:3:57:1240:405#0/1
RZZ^_R__PZ`aaa`Xa`__¥¥¥W_JX`^^WZ`bTZ^W]
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+HWI-EAS443:3:57:1259:1633#0/1
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+HWI-EAS443:3:57:1326:410#0/1
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+HWI-EAS443:3:57:163:1877#0/1
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+HWI-EAS443:3:57:188:1516#0/1
aa[Q¥¥W`Y`Y]aa¥^`aaXLVYRWX^__`_^X[YV_Z^
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+HWI-EAS443:3:57:446:88#0/1
a`aba_aaab^aaa^a]__aZa]_]_^_^^`^Z`X`V^
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+HWI-EAS443:3:57:691:1113#0/1
aabbaa__abbaa`aaabbabbaaaaaabaa`a_aaa`
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a¥bV_Y_bbab¥¥a`_H]^bb]Za`ba`Y`bZ]a[[aba
@HWI-EAS443:3:57:933:1326#0/1
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+HWI-EAS443:3:57:933:1326#0/1
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@HWI-EAS443:3:57:939:1398#0/1
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+HWI-EAS443:3:57:939:1398#0/1
`b``a_babaaabbaaaaaabaaaba`ab_aa_aa__aa
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+HWI-EAS443:3:57:990:550#0/1
aaa`aaa__`a`aa¥aa``^`_a_a^``aa__`]^]^]
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@HWI-EAS443:3:58:1026:370#0/1
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+HWI-EAS443:3:58:1077:1668#0/1
]`aZXOHUZ¥`V]ba^a`T_aYN]aG^YV_TYa_¥aa]]a
@HWI-EAS443:3:58:1094:1865#0/1
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+HWI-EAS443:3:58:1094:1865#0/1
a`Y¥]H¥YZY[a`_`TZ`SOS^__QR^[XUTL]_`_^]^¥
@HWI-EAS443:3:58:1220:464#0/1
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+HWI-EAS443:3:58:1220:464#0/1
a_aaba]abaaaa`Xa``_^_a_]^[^`__^_]^[^_VZ

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a]b_aaaaaab_`a``a_a_NV`aaaX[a^Z__][^`
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GTCGGATGTCCGTCCTTCATTGTTCCCCTGAATGCTGCC
+HWI-EAS443:3:58:1623:1157#0/1
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@HWI-EAS443:3:58:1629:55#0/1
GAAAGTGATTCCAAGAGGAAAGCTTTCCACAAGAGGGGTC
+HWI-EAS443:3:58:1629:55#0/1
a``b^aaaa^aaa`a^`^¥T¥_`]__]_^_Y^Z^^YV
@HWI-EAS443:3:58:1751:549#0/1
GCCTTTTGTGATTGGTATTTCCCTCCACTCCTGGTCCTTA
+HWI-EAS443:3:58:1751:549#0/1
aaaaaba`aaaaaa_aaaa`___`a_`a]`__[-]`_^
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CCAGATTGCTTCAAATGAGAATGTGGAAACCATGGACTCC
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aa¥a[aaaa`b_^a_aaa[`adWa[¥a[]a^][`Y¥¥_]
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+HWI-EAS443:3:58:358:529#0/1
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+HWI-EAS443:3:58:495:427#0/1
abaaa[I_aa`b_aa^ZY]^a_`W_[-_a_aV¥_U[aW^¥N
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+HWI-EAS443:3:58:525:1128#0/1
aa]a_]_]][^S¥]Wa]^SW_Y_SVWXVVO]]T]^`_]U[
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+HWI-EAS443:3:58:580:447#0/1
`W`Z^b¥¥_[-`a`W¥b¥[FW`¥X]^`aaa]^Y¥_[-T[-`
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GAAAGTGATTCCAAGAGGAAAGCTTTCCACAAGAGGGGTC
+HWI-EAS443:3:58:646:244#0/1
a___aZ``__^`_]`a_^_]^^^^Y^]^]_^__^]YY
@HWI-EAS443:3:58:787:1250#0/1
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+HWI-EAS443:3:58:787:1250#0/1
aaa_aaaaa`aa`a_aaaaaZa_]`_^_a_a`^____^^`
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AGCAGATACTGGGCCATAAGGACCAGGAGTGGAGGAAATA
+HWI-EAS443:3:58:831:1560#0/1
a[aaaa^ab__¥`a]_`aa``___`a_^_Ya_^_`_`a`_`
@HWI-EAS443:3:58:854:1519#0/1
TTCAGCGGGAACAATGAAGGACGGACATCCGACATGCGAA

+HWI-EAS443:3:58:854:1519#0/1
`Y_aa_0¥[_aZaXYZ_[^ZW]Z_a]S¥^_^^`]]]_
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GCGGGAACAATGAAGGACGGACATCCGACATGCGAACAGA
+HWI-EAS443:3:58:894:804#0/1
aaa`aaaaaa_a`a`¥_aa]_`_`_^_^^`__^a]]^__U
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ATCAAGTTTCATAAGAGGAAAGAAAGTGATTCCAAGAGGA
+HWI-EAS443:3:58:983:1245#0/1
a`]]_aZaa^a`^`a`¥ZZa__`a¥]_`_`aY^Z`Z_^
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GATTGCTTCAAATGAGAATGTGGAAACCATGGACTCCAAT
+HWI-EAS443:3:59:1113:352#0/1
```a`aa\_\_\_\_`\_a^`a^aa^a\_\_`¥\_```W]Z`URXXZ  
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+HWI-EAS443:3:59:1320:829#0/1  
a`^abba`b^a\_`^`\_abba¥bb`\_`bbb\_baaZW^^\_  
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GAGTGGAGGAAATACCAATCAACAAAAGGCATCCGCAGGC  
+HWI-EAS443:3:59:1422:20#0/1  
`^b[b\_Z\_aaaaaa¥aaa\_a`Z\_aa[aaa[R]\_[NRa`P  
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+HWI-EAS443:3:59:1546:235#0/1  
aaa`\_aa`aabbabbababb`ab`ba`a\_abUa`a[X¥a`  
@HWI-EAS443:3:59:1691:1251#0/1  
TATAAGAATGATGGAAAGTGCAAAGCCAGAAGATTTGTCC  
+HWI-EAS443:3:59:1691:1251#0/1  
aaa]]XZ``\_X`a]`a`U``Uaaa[`aaa\_^V``\_\_U`VP  
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+HWI-EAS443:3:59:419:828#0/1  
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+HWI-EAS443:3:59:722:1768#0/1  
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a`aaaXaa``\_`\_`¥`\_\_a`\_^a]ZZ^^a]\_\_]^]^ZX  
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CTTCTGGCTTTGCACTTTCCATCATTCTTATAACTTCTGT  
+HWI-EAS443:3:5:1258:716#0/1  
ab^¥`^W]TP[YIWRaa^]¥0¥Y^aa\_`¥¥[`YR^`\_\_¥B  
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+HWI-EAS443:3:5:1437:424#0/1  
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+HWI-EAS443:3:5:1495:767#0/1  
`¥[\_baa`a¥T¥bb\_`[^`bbba\_V¥X`V]\_`¥\_PYWIZb  
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+HWI-EAS443:3:5:219:188#0/1  
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+HWI-EAS443:3:5:264:611#0/1  
a]aba]`\_\_`a`\_a\_[``]R\_TZ^^^\_\_`^`\_a``\_\_\_\_V  
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+HWI-EAS443:3:5:444:1534#0/1  
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+HWI-EAS443:3:5:52:1860#0/1  
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+HWI-EAS443:3:5:538:391#0/1  
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+HWI-EAS443:3:5:65:36#0/1  
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a\_aaaa\_a`]¥¥`¥a`]a`\_¥[^Z\_\_\_^TTT][U¥VY^^  
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+HWI-EAS443:3:60:1081:1851#0/1  
a`a`\_aa\_X`aa`[\_^\_\_`aa¥`Y`^\_\_W`a\_0\_]\_\_\_\_`  
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+HWI-EAS443:3:60:1276:1674#0/1  
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+HWI-EAS443:3:60:143:836#0/1  
^aaa]Xaa[`aZ\_`a][M]b^¥N^U]\_`aaZM¥aX]¥V¥  
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+HWI-EAS443:3:60:1493:408#0/1  
a\_````\_```\_^`aX^`^^`\_Z\_V]]^aX]\_^\_Y\_]Y^]`  
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aaaaaa^aaaaaaV`aa`aaaaa\_\_^a`^`aa\_^\_a^]\_]\_

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+HWI-EAS443:3:60:1570:1467#0/1  
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+HWI-EAS443:3:60:1583:1100#0/1  
a][aa`baaa`\_a\_a`\_aaa\_aa\_a`aaZ`^aa]a`\_`^  
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+HWI-EAS443:3:60:202:100#0/1  
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+HWI-EAS443:3:60:465:338#0/1  
aa`bbab^`a]ba¥`\_aab\_abaa`bbaa\_aaa¥^a``\_\_  
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\_U\_a]VXYI^^]\_¥\_Y\_]TY]UQY`^]]]\_\_V[[Z[Z[NP  
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a\_`\_`Va\_a\_\_W]aaZ[a^¥Z\_\_\_\_\_^^Z^^¥[[^]]\_--  
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aaaaaaaaaaaa`aa````\_`^\_\_\_\_\_^^]^\_Z^]]Y]U  
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+HWI-EAS443:3:61:1128:285#0/1  
aa^¥a\_\_\_aaZZ]U[\_`^^a\_a`a\_\_]\_Z[VURTW]YW  
@HWI-EAS443:3:61:1168:773#0/1  
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+HWI-EAS443:3:61:1168:773#0/1  
a`V`^a^a\_aa\_`\_`\_a`]`\_`\_\_\_\_\_¥W`]XZ^WYXXU  
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\_UY¥`[][^Y]]`]U]^`a^a]¥¥]^\_[^U^[[RURT  
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+HWI-EAS443:3:61:1509:409#0/1  
abaa\_bbabbbabbb^bbbbbba\_aabbabaa`aab^aaS  
@HWI-EAS443:3:61:1593:536#0/1  
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+HWI-EAS443:3:61:1593:536#0/1  
aaaa`babab[`a]Xaababa^bbbbbbaa``[¥\_a`a^W

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+HWI-EAS443:3:61:1716:1973#0/1  
P\_`^bbaabbbbbbabbbbabab`abbbbaababbaabaa  
@HWI-EAS443:3:61:1750:399#0/1  
AAAGAAAGTGATTCCAAGAGGAAAGCTTTCCACAAGAGGG  
+HWI-EAS443:3:61:1750:399#0/1  
abbbbaabbababaaab`abbaababaaaaaa^`\_a\_`^]  
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+HWI-EAS443:3:61:181:896#0/1  
a`^`a¥`P`YZ`\_Y\_WY[`]HZZW^`\_a\_XX¥¥ZZZZ]  
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+HWI-EAS443:3:61:190:1387#0/1  
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+HWI-EAS443:3:61:271:454#0/1  
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aa`a¥W\_aY`aa]R[`]YWZ[\_a] [] [ [¥[LTQRUUXWOX  
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+HWI-EAS443:3:61:853:372#0/1  
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+HWI-EAS443:3:62:1040:1610#0/1  
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+HWI-EAS443:3:62:1067:409#0/1  
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a\_aaa`a`W`\_\_V\_\_U^^\_QZVZ\_^\_\_^[SW¥\_¥W^WRN  
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+HWI-EAS443:3:62:385:521#0/1  
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+HWI-EAS443:3:62:639:269#0/1  
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+HWI-EAS443:3:62:814:1526#0/1  
Z¥^^\_a`abbaaa\_Q`aa\_]```]Y^[\_X\_^YY[XUaaa^  
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¥\_aa]Y`ba\_bV]aW\_aabba`a`a[a\_`b\_babbbba^b

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a\_\_aa\_\_a`Z``a^^`a^\_\_\_`a^Z¥Z^^]R\_V\_ZZZ`]  
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+HWI-EAS443:3:63:1586:156#0/1  
aab`¥``]]`aa¥\_\_\_^aa\_X``^`VOS]\_YZ^\_^]]\_X  
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aa^aabba````a`bbba]aaV]\_aaaaaa^`^``[¥  
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a]aaaU^a)`XQX¥`[aa`Z\_J\_\_a`VMJR^T^¥[SZX]B  
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VV^¥¥^abb`ZGR\_b`a`aa¥aX\_aX¥VZ`X``^K[bZY  
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+HWI-EAS443:3:63:923:406#0/1  
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[aabb\_W^a[```a`]a]^¥a\_Za`V]^`VQRV`Z^^V  
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+HWI-EAS443:3:64:1131:147#0/1  
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+HWI-EAS443:3:64:1364:315#0/1  
\_`P`bbaba¥T``a^^)`¥L¥[a`\_`VY¥`\_¥¥X`\_`Z^[\_  
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+HWI-EAS443:3:64:1499:2027#0/1  
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+HWI-EAS443:3:64:919:875#0/1  
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+HWI-EAS443:3:65:146:719#0/1  
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+HWI-EAS443:3:65:1708:1641#0/1  
ab\_`ab`babab]\_\_``aaaa`a^`a\_`\_`\_aa^R¥^[[¥  
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¥YY``bba]\_]aXab¥`Z\_^aa`YZO^^¥[^a\_`Y`X``  
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`a¥[a`baa`a¥aa¥`¥[a^X¥\_`UV¥ZWW¥U¥¥N¥ZWS¥  
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+HWI-EAS443:3:66:1158:738#0/1  
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+HWI-EAS443:3:66:12:1608#0/1  
VPZ]aa^`[XaVaa\_aaa\_``\_a^a]Q\_\_YY\_`^`^YZ\_]`^  
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GAAAGTGATTCCAAGAGGAAAGCTTCCACAAGAGGGGTC  
+HWI-EAS443:3:66:14:795#0/1  
a``aa¥`]]`aaa¥M`]¥]]```a`\_`\_`¥^`\_`^`\_`¥U[]Y\_

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+HWI-EAS443:3:66:196:248#0/1  
aaaa`aba^aa`a\_¥\_]aa`a`a`\_aa\_\_]\_Z^^Y^^]]  
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abbaba\_b`\_a\_aZ[^PW`\_a\_a]]]¥¥\_Y^\_VRSVV¥  
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\_b¥ba¥`T^aab`a\_\_W`^aaaYZ^`S¥`\_]`aaa\_\_^^\_  
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+HWI-EAS443:3:66:910:1395#0/1  
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]^`Y^\_aa`\_a]aaaaaaaa^aa`a\_¥a`^^`a`\_`aZ`^[W  
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+HWI-EAS443:3:67:1395:476#0/1  
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+HWI-EAS443:3:67:1509:1206#0/1  
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AAAGTGATTCCAAGAGGAAAGCTTCCACAAGAGGGTCC  
+HWI-EAS443:3:67:164:948#0/1  
^V\_\_S`P^`aaaa]a]]\_a`\_`\_\_`^\_^\_Y`\_`¥¥]]UX¥  
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GTTGATTGGTATTTCCCTCCACTCCTGGTCCTTATGGCCCA  
+HWI-EAS443:3:67:1782:345#0/1  
a`aaaaa``\_aaaa`\_a`\_a]\_\_`\_`\_Y^Y\_\_^\_^VVT]V  
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+HWI-EAS443:3:67:239:1686#0/1  
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+HWI-EAS443:3:67:298:727#0/1  
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+HWI-EAS443:3:67:384:558#0/1  
aab]¥¥``aba\_a^aa]a]a\_Z]a\_\_\_a^``a`Y`Y[^Z  
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+HWI-EAS443:3:67:429:1263#0/1  
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CGTCCTTCATTGTTCCCGCTGAATGCTGCCATAACGGTTG  
+HWI-EAS443:3:67:446:149#0/1  
a^]^bbbVI\_\_¥\_b`aaU`T`[¥`¥^]a]MW``U\_aYLV^

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+HWI-EAS443:3:67:455:554#0/1  
X¥]\_a¥`aa^V^Z`WaKaZT^a\_]ab]`````\_ ]Z\_^\_  
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+HWI-EAS443:3:67:557:682#0/1  
abaaab`\_`¥\_aX\_V^Waa`]Y]`aaa`a`\_^]`V`  
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+HWI-EAS443:3:67:582:950#0/1  
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+HWI-EAS443:3:67:656:24#0/1  
`S[¥]`]a\_`\_`\_`\_WVY]^`\_a\_^]\_`\_`\_Y\_]\_Z]]  
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+HWI-EAS443:3:67:803:2008#0/1  
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+HWI-EAS443:3:67:834:975#0/1  
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+HWI-EAS443:3:67:880:1501#0/1  
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+HWI-EAS443:3:68:1436:36#0/1  
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+HWI-EAS443:3:68:1453:875#0/1  
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+HWI-EAS443:3:68:1598:108#0/1  
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+HWI-EAS443:3:68:191:1397#0/1  
]a]X`X0¥Y`ZPZa¥¥¥ZRYZ]\_aaYH¥\_¥\_`\_`\_`aWT^  
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+HWI-EAS443:3:68:338:221#0/1  
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+HWI-EAS443:3:68:534:2022#0/1  
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+HWI-EAS443:3:68:610:1028#0/1  
\_^`¥¥QZX\_a)`ZaY\_Y]a`aaa\_aaa\_aa\_\_TITUG\_[a  
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+HWI-EAS443:3:68:761:767#0/1  
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+HWI-EAS443:3:68:957:427#0/1  
][Z]\_\_baabb^bbabb`^U\_abaabb`ab\_a`\_aa`¥]^  
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+HWI-EAS443:3:68:95:384#0/1  
a¥aabbaaaaaa`a`[\_aaa\_\_a\_aaaaaaaW``¥`\_`  
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+HWI-EAS443:3:68:984:916#0/1  
a`\_S\_aab\_¥\_baababbba[`aaa```X\_aaa[a^[¥^T

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aaZaYZPQ[^`\_b`YX`a¥Y¥R]a\_aa\_\_a`Waa[aa][[  
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+HWI-EAS443:3:69:1238:1152#0/1  
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+HWI-EAS443:3:69:1306:1391#0/1  
Z[aR]`ba\_[\_Z^]^abU¥U\_Z\_^[VYZX[]a]VQPDHUT  
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+HWI-EAS443:3:69:233:382#0/1  
a\_aZ¥Z`[a\_a``¥L]W\_^V`\_a`]^]\_\_X]ZR]]YXT\_  
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+HWI-EAS443:3:69:595:284#0/1  
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+HWI-EAS443:3:69:678:871#0/1  
Y\_`¥`SKa`\_W\_`¥Wa¥¥¥aaPabba\_Vb`U\_Q\_[a`¥Za  
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+HWI-EAS443:3:69:700:2029#0/1  
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^[\`b]MbbSaZR\_baaa`b]¥Y^a^aV¥PU]U^[aV\_S\_B  
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+HWI-EAS443:3:6:121:744#0/1  
abaabbaaaaaa\_`aa`¥a[aa\_\_a\_\_a\_\_a\_`\_\_\_\_  
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+HWI-EAS443:3:6:1428:974#0/1  
¥bbb[a]T]LJZ`a`aabbRabbZ^OJ`¥]aS^`bPb]¥B  
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aa¥]]][[ZS`[Ub[\_ZWVW\_¥G¥\_`P[^a\_^^`]]WYa  
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U\_`YYUa`bSa\_G]\_¥[\_[bV\_\_a]\_\_aaUaa`aQ]a\_Y  
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+HWI-EAS443:3:70:1415:377#0/1  
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+HWI-EAS443:3:70:1419:1267#0/1  
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+HWI-EAS443:3:70:1782:1231#0/1  
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+HWI-EAS443:3:70:188:30#0/1  
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+HWI-EAS443:3:70:273:777#0/1  
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+HWI-EAS443:3:70:321:2024#0/1  
^¥IX^ba^[\_`¥^abY]Q\_a[\_\_\_`aX^]a]`U^a^`a\_\_^  
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\_[TYZ`¥Z[X¥`]Z]]Z\_aZW[UY¥]`¥Y]XY]^¥YZ¥aW  
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+HWI-EAS443:3:70:423:1184#0/1  
a``abbbbbaaaaaaba¥aa\_U\_a`\_\_aaa\_aU]a]¥T]a  
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+HWI-EAS443:3:70:470:874#0/1  
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+HWI-EAS443:3:70:607:912#0/1  
abababaaaaaV\_\_`aaaaab`aa`Uaa`aa`\_a]`\_]  
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+HWI-EAS443:3:70:64:1581#0/1  
]R\_`]ZV\_Z`¥Xaaa[T¥a[¥S\_¥¥N¥^[U[PVTUT^ZR[  
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+HWI-EAS443:3:70:68:1527#0/1  
¥aZ^[abb^WZ``[\_]\_QOR^bWG^aYaa^aaa]OZ^a^Y  
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+HWI-EAS443:3:71:1014:524#0/1  
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+HWI-EAS443:3:71:1066:943#0/1  
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+HWI-EAS443:3:72:116:1194#0/1  
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Z[b\_\_[^`a\_U\_a`^VbJaU\_[¥bbZ\_aa`a\_[aI\_RYW]R  
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+HWI-EAS443:3:72:813:146#0/1  
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+HWI-EAS443:3:73:143:2028#0/1  
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+HWI-EAS443:3:73:271:536#0/1  
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+HWI-EAS443:3:73:275:124#0/1  
abaaabaab` `` `baa[ `\_\_` `` `¥\_\_^[\_a\_a¥` `W¥\_\_`  
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+HWI-EAS443:3:74:911:682#0/1  
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a`aaa`\_`a\_\_\_W^`^aa\_\_`a^^`\_`\_\_`\_`\_]`^^]]X  
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ZX¥a\_Z`ba`ab`\_¥^^`\_a`^]]X\_a\_Z]¥Z^a^[]`S]  
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a`\_`aa^]U^00W[]]aa`\_WaPUY``W\_]Z]\_\_\_\_]^¥YX  
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ab`abaaaa¥]^\_aaaa\_aaa`aTZa`\_`\_^\_]UPLT[XQ\_  
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^a\_]a`a`aa]¥a\_ZS``a```[]`[^\_X]]]¥`Y]`  
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a`bYV¥^Y\_`V]a`KV¥JWab`XUaa¥JZ\_TQ`\_TQ¥HIa  
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^Raa`a``¥``¥`\_`W\_¥`a\_T[a\_a`a\_`\_`\_U\_\_`a`

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]X`^b[aa\_Q]^W\_ba\_X[FZ\_a`[]¥Z^\_W\_a\_`a``T  
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aaVbabb`bbba``baZaaa^a¥\_a`]a`aaa\_\_b\_X`\_  
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+HWI-EAS443:3:78:975:569#0/1  
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+HWI-EAS443:3:79:1204:1549#0/1  
`a`\_\_\_a¥^¥bb\_\_¥¥\_`^^a\_W[YU]a\_IZL]\_M\_ZZXY  
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aa]a¥]Z^¥\_X^`^W\_aa`]`X][¥]a^a[¥¥]X\_\_\_Y]¥  
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aab\_]``aYa\_\_`^`a\_aa]]\_\_^a`a`S`[^`^Z\_`\_``\_`  
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+HWI-EAS443:3:79:312:923#0/1  
^`^Z]Z^aa\_a^\_W\_^XYPYU`a]a^Z^¥^ZZZ\_[[T]  
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+HWI-EAS443:3:79:563:409#0/1  
T¥W¥\_H[\_¥b\_0Q\_`^Wa\_WYS¥aa]`UH\_\_Z\_ZWT`SZb  
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TGAAGATTTAAGAGTATCAAGTTTCATAAGAGGAAAGAAA  
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a` `aaaaaaaab`Saaa\_\_a^a` `]`a`aa`\_a\_\_a\_\_a\_\_  
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+HWI-EAS443:3:7:1536:1593#0/1  
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+HWI-EAS443:3:7:1549:1765#0/1  
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+HWI-EAS443:3:7:1740:1192#0/1  
\_a^X)^baa`aaUZ)`S`VWV[U`V`Wa\_¥a[^\_¥S^XB  
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+HWI-EAS443:3:7:350:935#0/1  
Yb` `[X`a\_¥aaaTaaaYa[^aa`aaa\_[\_a^\_a\_¥`a^a  
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+HWI-EAS443:3:7:389:1624#0/1  
]b`a`[b`¥a]^^[aba\_a`[a`)]`aab`a`aa`a``abb  
@HWI-EAS443:3:7:422:171#0/1  
ATTGGAGTCCATGGTTTCCACATTCTCATTTGAAGCAATC  
+HWI-EAS443:3:7:422:171#0/1  
\_`\_X\_[bYa]a^aTZaa`][aaaW^a]aaaa\_\_[TaY^]  
@HWI-EAS443:3:7:558:1380#0/1  
AGCAGATACTGGGCCATAAGGACCAGGAGTGGAGGAAATA  
+HWI-EAS443:3:7:558:1380#0/1  
aaa[a\_X` `\_aa`[ZN\_a`a^\_\_Y` `\_Y[DXa`a¥V\_a]\_  
@HWI-EAS443:3:7:694:1061#0/1  
TCCGTCCTTCATTGTTCCCGCTGAATGCTGCCATAACGGT  
+HWI-EAS443:3:7:694:1061#0/1  
```aRX` `^a`aa¥¥\_\_`\_¥^\_\_`^\_Z^WW\_\_WW^W^S  
@HWI-EAS443:3:7:748:1810#0/1
CATTCTCATTTGAAGCAATCTGGACCCCTTGTGGAAAG
+HWI-EAS443:3:7:748:1810#0/1
`aabbbbaababaJa`aba_^` `G__a_¥[a0aVaaa^
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+HWI-EAS443:3:7:813:1533#0/1
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+HWI-EAS443:3:7:858:907#0/1
_ab]bbbabbaaa`a`abaa`__aaa`a__`_[Waa¥TT
@HWI-EAS443:3:7:897:1045#0/1
CTTTCCTCTTATGAACTTGATACTCTTAAATCTTCAAAT
+HWI-EAS443:3:7:897:1045#0/1
_bbb`a`ababbb_bb`bb¥ab_Xb]babbab¥aba_aba
@HWI-EAS443:3:7:903:558#0/1
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+HWI-EAS443:3:7:903:558#0/1
U[SVaY[]b_OV_SZM]TMP]`ba_FKXV[TYPFKXJM`a
@HWI-EAS443:3:7:98:1484#0/1
AAGAAAGTGATTCCAAGAGGAAAGCTTCCACAAGAGGGG
+HWI-EAS443:3:7:98:1484#0/1
aa]¥Z_^DYa`aaa^PWZ]R]]UQZUQ[___`_a]XW[___B
@HWI-EAS443:3:80:1044:1572#0/1
GGAGGAAATACCAATCAACAAAAGGCATCCGCAGGCCAGA
+HWI-EAS443:3:80:1044:1572#0/1
aYO`^UaVULX¥ZMVTZ[^SFVQVTMHM`[WMPRRNTSWY
@HWI-EAS443:3:80:1220:979#0/1
GAAAGTGATTCCAAGAGGAAAGCTTCCACAAGAGGGGTC
+HWI-EAS443:3:80:1220:979#0/1
a`_ZUPaa_¥_a__`aa_]a[0¥_`^¥X_`^__`_WVZ]GO
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TGTTGATTGGTATTTCTCCACTCCTGGTCCTTATGGCCC
+HWI-EAS443:3:80:1285:519#0/1
U^¥¥[[]bbZaYa`a`]a¥PSa``YU[_N__a¥ZY`a`aQQ
@HWI-EAS443:3:80:1291:315#0/1
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+HWI-EAS443:3:80:1291:315#0/1
a[___aa¥W¥aa_LR]aa[`a]]^]]Za_`T¥_`VY_Z_YN
@HWI-EAS443:3:80:1367:866#0/1
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^`baaaaaaabaabbaa`bab]¥aaaa_aaa__a___^
@HWI-EAS443:3:80:17:538#0/1
GAAATACCAATCAACAAAAGGCATCCGCAGGCCAGATCAG
+HWI-EAS443:3:80:17:538#0/1
a_^a_]_aa`^`^R^]_`^^[`^_^^`_`^^^^ZW[T[
@HWI-EAS443:3:80:192:704#0/1
CCGCAGGCCAGATCAGTGTGCAGCCTACATTCTCAGTGCA
+HWI-EAS443:3:80:192:704#0/1
aabbbbaabb]`aaa_aa`a]^aa`baTaaaa``aXa¥_
@HWI-EAS443:3:80:262:1575#0/1
TAAATCTTCAAATGCAGCAGAGTGGCATGCCATCCACACC
+HWI-EAS443:3:80:262:1575#0/1
abaW^`aaaa¥`aaaaaa[a¥_Y¥``a_Ya_aZ^`_`^YW
@HWI-EAS443:3:80:308:1720#0/1
CCGCAGGCCAGATCAGTGTGCAGCCTACATTCTCAGTGCA
+HWI-EAS443:3:80:308:1720#0/1
aaZaaX[a`a`a^`^VY_`aY¥^a^a```¥^`_`_V__`

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+HWI-EAS443:3:80:329:1440#0/1
abb`_`abb[bbabb[UWbaab__`_¥]]a`[[`¥`aaX
@HWI-EAS443:3:80:363:1241#0/1
GGACCCCTCTTGTGGAAAGCTTTCCTCTTGAATCACTTT
+HWI-EAS443:3:80:363:1241#0/1
aa_bbbbbbb]aa[b`¥^baa`aaaaaaa_aa]`aa``aa_
@HWI-EAS443:3:80:409:178#0/1
CTTAAATCTTCAAATGCAGCAGAGTGGCATGCCATCCACA
+HWI-EAS443:3:80:409:178#0/1
^ababa_babbbababa]ababbaaSaa`¥]`Z`ZZ¥NTJL
@HWI-EAS443:3:80:414:433#0/1
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+HWI-EAS443:3:80:414:433#0/1
aYaaa_b¥]aaaa`Z`a``^T_____a```````_]U^]Z
@HWI-EAS443:3:80:593:1770#0/1
GAAAGTGATTCCAAGAGGAAAGCTTTCACAAGAGGGGTC
+HWI-EAS443:3:80:593:1770#0/1
aaa`TW`_]abaa_XTQ^a`_`^^]_[a^__^_Y]YYZ]
@HWI-EAS443:3:80:611:688#0/1
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+HWI-EAS443:3:80:611:688#0/1
]XNYY]`b]a_V`VUaaba`]a^^`WX_[aaZb_aaa[a_
@HWI-EAS443:3:80:720:1007#0/1
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+HWI-EAS443:3:80:720:1007#0/1
aa`aaZ]¥aa``aY[]V`¥``¥TV]^`¥a¥[_Z[WU][[¥¥
@HWI-EAS443:3:80:782:96#0/1
TCCACAAGAGGGGTCCAGATTGCTTCAAATGAGAATGTGG
+HWI-EAS443:3:80:782:96#0/1
aaa_^aaaaaaa`^__aa``aa^a`^`_`aa_a^_aa^`_
@HWI-EAS443:3:81:1013:35#0/1
GGATGGCATGCCACTCTGCTGCATTTGAAGATTTAAGAGT
+HWI-EAS443:3:81:1013:35#0/1
^aabba_ab_bbbababaJababbbba^b_abbaaab`
@HWI-EAS443:3:81:107:884#0/1
TTTCCACAAGAGGGGTCCAGATTGCTTCAAATGAGAATGT
+HWI-EAS443:3:81:107:884#0/1
a`[baab`a[`baa`[aaa]a``aa``a][`__Ta`]aa]
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+HWI-EAS443:3:81:1391:995#0/1
a^^`¥abbaaZ^babb`_abXb]a`_`b_]Y`a[aWa_`a
@HWI-EAS443:3:81:1453:262#0/1
ATTTCTCCACTCCTGGTCCTTATGGCCAGTATCTGCTT
+HWI-EAS443:3:81:1453:262#0/1
abbaabaababbaaab`[^bbaaUZZTZa]_a`^__Sa`
@HWI-EAS443:3:81:153:1815#0/1
TCTTGAATCACTTTCTTCTCTTATGAACTTGATACT

+HWI-EAS443:3:81:153:1815#0/1
¥bb_UQUTRaYZW[abZaba]Y`Ua`aSHSX^a¥_babY_
@HWI-EAS443:3:81:1715:1559#0/1
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+HWI-EAS443:3:81:1715:1559#0/1
`a_[aaba`aaaU`abaaa`a`_a_`ba^a_aa_aXa^_
@HWI-EAS443:3:81:1777:478#0/1
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+HWI-EAS443:3:81:1777:478#0/1
`aaaaa[_Yaa_a_aaaaaaXX_a`____`SX_]_^UZ
@HWI-EAS443:3:81:239:175#0/1
AGGGTATTGGAGTCCATGGTTTCCACATTCTCATTTGAAG
+HWI-EAS443:3:81:239:175#0/1
abab_baaba`aa`baaZ`aaa_aa¥aaaa_aaab`a
@HWI-EAS443:3:81:266:1790#0/1
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+HWI-EAS443:3:81:266:1790#0/1
[aa[Za[Z`_]_]WaWa¥^_]_I_`b````]`baaZYHZ_]_
@HWI-EAS443:3:81:412:462#0/1
CAGGCCAGATCAGTGTGCAGCCTACATTCTCAGTGCAGCG
+HWI-EAS443:3:81:412:462#0/1
abbb_bbb`abab_a^ababaaaaa`aa`aaa]a`aa`a
@HWI-EAS443:3:81:436:928#0/1
GAAACTTGATACTCTTAAATCTTCAAATGCAGCAGAGTGG
+HWI-EAS443:3:81:436:928#0/1
aaa__bab^a¥aaaab`aaa`a`aaa`abaaaa`^a^Z^_
@HWI-EAS443:3:81:44:1572#0/1
GGGTATTGGAGTCCATGGTTTCCACATTCTCATTTGAAGC
+HWI-EAS443:3:81:44:1572#0/1
^OZYbaaaa^XWab[`a`Zaaaa`aa```a`W`aaa`[[a
@HWI-EAS443:3:81:476:1162#0/1
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+HWI-EAS443:3:81:476:1162#0/1
aa`Y`a_b_aaaaaaaaaa_a`aa^]a_aaS]^``_]_
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GCAGGCCAGATCAGTGTGCAGCCTACATTCTCAGTGCAGC
+HWI-EAS443:3:81:553:1925#0/1
abbaabba``aaaa`Zaaa_aa`ba_aa`aa^¥`PR`a
@HWI-EAS443:3:81:563:1727#0/1
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+HWI-EAS443:3:81:563:1727#0/1
aa`a[aa__[T¥a`¥aa_a`TaZ¥^a]`]^0¥Q¥TYRRV
@HWI-EAS443:3:81:639:1317#0/1
CTGCATTTGAAGATTTAAGAGTATCAAGTTTCATAAGAGG
+HWI-EAS443:3:81:639:1317#0/1
a^]_Ya`^T[X[P]a`]a¥ZaX[```^¥^]^a_`a¥]`aS
@HWI-EAS443:3:81:864:1571#0/1
ATCTGGACCCCTTTGTGGAAAGCTTTCCTCTTGAATCA
+HWI-EAS443:3:81:864:1571#0/1
¥U][OR[^`^`aa¥^`Xaa^Za[]][`aQL`_a_a`_Y^_]_

@HWI-EAS443:3:81:998:1787#0/1
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+HWI-EAS443:3:81:998:1787#0/1
aaaXabaaaa`bba]aaaaa¥a]a_a_]TZ]aa^_a_VY]
@HWI-EAS443:3:82:1160:645#0/1
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+HWI-EAS443:3:82:1160:645#0/1
aba]_abb_J_aa_]bXa`X¥babbaaa_aab``_]ba`
@HWI-EAS443:3:82:1265:1520#0/1
AGCAGATACTGGGCATAAGGACCAGGAGTGGAGGAAATA
+HWI-EAS443:3:82:1265:1520#0/1
aaYY_a_0_a[Xa^¥Wa`TVYa`Xaaa^Ra`_a`]_¥``
@HWI-EAS443:3:82:1310:901#0/1
TTCCTCTTATGAAACTTGATACTCTTAAATCTTCAAATGC
+HWI-EAS443:3:82:1310:901#0/1
Za^P_a_]_bb]TX^_U_YS¥a^a^`ab``_ZZ^_P
@HWI-EAS443:3:82:1316:1973#0/1
TGCACACTGATCTGGCCTGCGGATGCCTTTTGTGATTGG
+HWI-EAS443:3:82:1316:1973#0/1
a_M[0_aQ_]U`_¥a_H¥^_Ya_ZWWH_aa^``]ZX]_`
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+HWI-EAS443:3:82:138:106#0/1
a_a`]_aaXa`aaVZ____^M^V_TZZ]_UVWHZMPQNQR
@HWI-EAS443:3:82:153:447#0/1
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+HWI-EAS443:3:82:153:447#0/1
_aaba`a`_a¥^][^L`a`aabaaa`a[^0[^[^__`_`
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AGTGATTCCAAGAGGAAAGCTTCCACAAGAGGGGTCCAG
+HWI-EAS443:3:82:1653:1172#0/1
`a[b_[ba_ab`baaabaUab`a`a¥_a`abba_¥^0a_
@HWI-EAS443:3:82:173:193#0/1
GGAAAGAAAGTGATTCCAAGAGGAAAGCTTCCACAAGAG
+HWI-EAS443:3:82:173:193#0/1
a_¥TX`US¥aP_TY`XYF0[`ZS^]X]a[TR]YVZY_Z_V
@HWI-EAS443:3:82:279:652#0/1
CCAGATTGCTTCAAATGAGAATGTGGAAACCATGGACTCC
+HWI-EAS443:3:82:279:652#0/1
aaVaa`Taaa^a_]`a¥a`a_a_a`a_```_¥¥^WQ__
@HWI-EAS443:3:82:329:948#0/1
GATGCCTTTTGTGATTGGTATTTCCCTCCACTCCTGGTCC
+HWI-EAS443:3:82:329:948#0/1
aa`aabaaaabaaaa`aaaXa_a`aa_¥`a`a_a_ZWa_
@HWI-EAS443:3:82:520:22#0/1
GGAAATACCAATCAACAAAAGGCATCCGCAGGCCAGATCA
+HWI-EAS443:3:82:520:22#0/1
ab``aba``^`a^a`aaa¥aa¥_a[^a_]Y]````WZZ[
@HWI-EAS443:3:82:652:1368#0/1
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+HWI-EAS443:3:82:652:1368#0/1
abbbbb^bbbaaa_ab`aaababbaabaaaaaaaa`a`]
@HWI-EAS443:3:82:694:219#0/1
AGGCTGCACACTGATCTGGCCTGCGGATGCCTTTTGTGA
+HWI-EAS443:3:82:694:219#0/1
a``a`a^_WUb_X`b]abaaaa¥X]baWZFDZaa]JN¥[O
@HWI-EAS443:3:82:740:910#0/1
GATTGCTTCAAATGAGAATGTGGAAACCATGGACTCCAAT
+HWI-EAS443:3:82:740:910#0/1
a^`V_a_aa]ZWaZa¥a^`^LaaZ]`__`_¥]`_R]TVX
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+HWI-EAS443:3:82:825:292#0/1
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@HWI-EAS443:3:82:864:1120#0/1
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+HWI-EAS443:3:82:864:1120#0/1
aaa^a¥abb`a`abababab`aaa_aa`_aaabaa^V^Va
@HWI-EAS443:3:83:1000:445#0/1
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+HWI-EAS443:3:83:1000:445#0/1
aaaaa`_aa_a`¥_] [aXa_`^`Sa`N^¥]PUUYUR^N[T
@HWI-EAS443:3:83:105:468#0/1
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+HWI-EAS443:3:83:105:468#0/1
_bb`babbba^aaab`ab`a¥_a^`aaaa_a`^`^a^¥_
@HWI-EAS443:3:83:1078:923#0/1
CCGTCCTTATTGTTCCCGCTGAATGCTGCCATAACGGTT
+HWI-EAS443:3:83:1078:923#0/1
a_b_abbababaaa`aab`aaabaabb_aa`aaaa¥aa__
@HWI-EAS443:3:83:1213:769#0/1
ATACTGGGCCATAAGGACCAGGAGTGGAGGAAATACCAAT
+HWI-EAS443:3:83:1213:769#0/1
aabaaa`bbaabaaabaa_aaa_a]b[`baaaa`T_aa^
@HWI-EAS443:3:83:124:1521#0/1
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+HWI-EAS443:3:83:124:1521#0/1
abaaaWaa_`¥ba]ab]IV]_aa_a`a^_]_``_]NPYS
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+HWI-EAS443:3:83:1400:1031#0/1
aa`aba`aaa`^]]`¥_^ [R`^V`_]_[YW^ZWXVW
@HWI-EAS443:3:83:1462:1257#0/1
ATCCGACATGCGAACAGAAGTTATAAGAATGATGGAAAGT
+HWI-EAS443:3:83:1462:1257#0/1
]_¥^b`bbbb`_W]`ab¥¥^abaaaa` [bba_Z_`^`_S
@HWI-EAS443:3:83:1462:1289#0/1
AAGAAAGTGATTCCAAGAGGAAAGCTTTCCACAAGAGGGG
+HWI-EAS443:3:83:1462:1289#0/1
a_`_Y^aYa]baaabb]baaYb]`aaaa_Q_¥]aa``_ZQ

@HWI-EAS443:3:83:1521:679#0/1
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+HWI-EAS443:3:83:1521:679#0/1
`^aXYV`P¥`aT`^_a[[`Z¥_OV^_U_YZZZLORRW^_Y
@HWI-EAS443:3:83:1710:1671#0/1
AGCAACCGTTATGGCAGCATTTCAGCGGGAACAATGAAGGA
+HWI-EAS443:3:83:1710:1671#0/1
aabab]X¥`abb]a]b]SLFY]U¥FX^]PXHVaBBBBBBB
@HWI-EAS443:3:83:1715:1266#0/1
GAATGATGGAAAGTGCAAAGCCAGAAGATTTGTCCTTCCA
+HWI-EAS443:3:83:1715:1266#0/1
V`WZbabbaXba[^babab_]`^]aaabbaaaZ]aa]Ga
@HWI-EAS443:3:83:196:1798#0/1
GATTGCTTCAAATGAGAATGTGGAAACCATGGACTCCAAT
+HWI-EAS443:3:83:196:1798#0/1
a_JYbbYNbb¥SZaa]b_aaQaaW[b`bX`^___a_aaba
@HWI-EAS443:3:83:235:764#0/1
ATGTAGGCTGCACACTGATCTGGCCTGCGGATGCCTTTTG
+HWI-EAS443:3:83:235:764#0/1
aaa_abaaa`aaa^`^`_`_`a]^¥]^``[[N[^[_[H
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CACTGATCTGGCCTGCGGATGCCTTTTGTGATTGGTATT
+HWI-EAS443:3:83:321:971#0/1
aaaaa_aaaa_`^S^^`_WV][VZ___W_^R[¥[_Y¥¥¥
@HWI-EAS443:3:83:363:1604#0/1
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+HWI-EAS443:3:83:363:1604#0/1
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+HWI-EAS443:3:83:486:593#0/1
`aaaW`TaabaX`Z`aa__`ba_a`aaaaaa_a__`OUO
@HWI-EAS443:3:83:547:1413#0/1
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+HWI-EAS443:3:83:547:1413#0/1
`a^`Xa][abb]]abb^aab`b`_`_aaabaa__a^¥_Z__
@HWI-EAS443:3:83:655:1293#0/1
ATGGTTTCCACATTCTCATTTGAAGCAATCTGGACCCCTC
+HWI-EAS443:3:83:655:1293#0/1
a[_¥Z[aaaL_ba`_`^a_`¥Ya_a`S_`^`_ZZ^]`^`
@HWI-EAS443:3:83:72:920#0/1
TGCACACTGATCTGGCCTGCGGATGCCTTTTGTGATTGG
+HWI-EAS443:3:83:72:920#0/1
abba_Vababababa]aa^aaaaa``¥¥a`[R^aXY[`]a
@HWI-EAS443:3:83:749:1175#0/1
GTGGATGGCATGCCACTCTGCTGCATTTGAAGATTTAAGA
+HWI-EAS443:3:83:749:1175#0/1
a`^aaXa_N_aZV]a^_a`a`_]UU]_a¥V```aa``aYa
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+HWI-EAS443:3:83:904:706#0/1
aaa`baaaa]_aa`¥aVa___`W_a_Za_¥a___`S`__^Z
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CTTGTGGAAAGCTTTCCTCTTGAATCACTTCTTTCCTC
+HWI-EAS443:3:84:1033:541#0/1
abb`abbbb`bbbbbbbbbaabbba_b_bbbabbaaba
@HWI-EAS443:3:84:1138:559#0/1
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+HWI-EAS443:3:84:1138:559#0/1
a_aaaaaaaaaa]_`b__^¥Xa``_[__`[_]__`^P]
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+HWI-EAS443:3:84:1164:335#0/1
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@HWI-EAS443:3:84:1448:1626#0/1
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+HWI-EAS443:3:84:1448:1626#0/1
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@HWI-EAS443:3:84:1689:108#0/1
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+HWI-EAS443:3:84:1689:108#0/1
__bb_bbaaa``Xaaa_a]a`¥^Z]a_]a^X_^0_Z_^
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+HWI-EAS443:3:84:208:782#0/1
a[^W[HVROR[^`Y¥YaXZZZ^`^ZX_a^RFT`YV¥XLN
@HWI-EAS443:3:84:218:1603#0/1
GGTCCAGATTGCTTCAAATGAGAATGTGGAAACCATGGAC
+HWI-EAS443:3:84:218:1603#0/1
UbTb`T`b_`bbVabbX]Xbbaaab_a```babVa^Q^a
@HWI-EAS443:3:84:231:787#0/1
CTTAAATCTTCAAATGCAGCAGAGTGGCATGCCATCCACA
+HWI-EAS443:3:84:231:787#0/1
ab[^[^`a_X`]¥XV^]_aa`___X_^`[[a]XSQXSZ^^
@HWI-EAS443:3:84:343:843#0/1
CATGTCGGATGTCCTTTCATTGTTCCCGCTGAATGCT
+HWI-EAS443:3:84:343:843#0/1
_¥^^]a^¥WV_P¥]WDXZ]_XUZ]XM[_¥^V^LSG[¥VQV
@HWI-EAS443:3:84:410:524#0/1
TTGGTATTTCTCCACTCCTGGTCCTTATGGCCAGTATC
+HWI-EAS443:3:84:410:524#0/1
[aWU`a`[aaY_a_XS]_U¥IP[_TY``SPaT^`[ZIXa
@HWI-EAS443:3:84:583:1730#0/1
GAGCAACCGTTATGGCAGCATTGAGCGGGAACAATGAAGG
+HWI-EAS443:3:84:583:1730#0/1
`abba`ba]Saba¥ZXaa[¥_a`[O[QZ`GX__[ZH]RSQ
@HWI-EAS443:3:84:659:1829#0/1
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+HWI-EAS443:3:84:659:1829#0/1
aaU_]_`bbb]bZbRTX^]SV_]aZaTY`¥^_a[_aP]_G

@HWI-EAS443:3:84:704:796#0/1
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+HWI-EAS443:3:84:704:796#0/1
a`[`baabbb]a___aZX^aa``baa¥0_Z_]`PX^__
@HWI-EAS443:3:84:851:178#0/1
CCCCTCTGTGGAAAGCTTTCCTCTTGAATCACTTTCTT
+HWI-EAS443:3:84:851:178#0/1
abaabaab¥M[a_Z]a`_aaa`a`aaa`a]`a_^_]`^a`
@HWI-EAS443:3:84:877:670#0/1
GAGTGGAGGAAATACCAATCAACAAAAGGCATCCGCAGGC
+HWI-EAS443:3:84:877:670#0/1
aab`ba_ba`aaaa_aaa```_`a]]`a_aa`a[`Y____`
@HWI-EAS443:3:85:1173:1168#0/1
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+HWI-EAS443:3:85:1173:1168#0/1
aa_]bb[]]Pba``baab^bb`a¥b_a`_aa^X_aba¥__
@HWI-EAS443:3:85:126:240#0/1
CGGATGTCCGTCCTTCATTGTTCCCGCTGAATGCTGCCAT
+HWI-EAS443:3:85:126:240#0/1
aaVKX_¥^__V____[^V_¥_SS¥^_V¥V^¥XV¥UUUVWUW
@HWI-EAS443:3:85:1349:2040#0/1
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+HWI-EAS443:3:85:1349:2040#0/1
aabb]b____]¥aba^baaaaa_^`Za^a`_Q`aa`Na``
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GAGTGGAGGAAATACCAATCAACAAAAGGCATCCGCAGGC
+HWI-EAS443:3:85:1422:320#0/1
`a_PXb[b_¥N]b_ZS¥aaa`_[a`¥_`WH```WaY[_aN
@HWI-EAS443:3:85:1591:1136#0/1
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+HWI-EAS443:3:85:1591:1136#0/1
^babaa[`aabaa[_babUa[abZMRPabba[YPY¥RRba
@HWI-EAS443:3:85:1683:1520#0/1
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+HWI-EAS443:3:85:1683:1520#0/1
aaaaaaaa`U`a_[aa`Ya_aa]]a__a_a¥Z``^]XZ^
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+HWI-EAS443:3:85:1745:1816#0/1
a_aZQX¥ZH¥_a`]Tba`_¥QZ[^a]N][[]]`aZSUR
@HWI-EAS443:3:85:292:1613#0/1
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+HWI-EAS443:3:85:292:1613#0/1
abb_aZ`__bbbbabb`Z[`[Z_bYXaaa]Za____]aa``
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+HWI-EAS443:3:85:368:1170#0/1
a`]¥ba]a`_a_aa`aaaaaaaa`aaaaa_``_V____`_
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+HWI-EAS443:3:85:780:1869#0/1
X]_K`b_baaaa```babb_`b`]aaa]`bbba^_aa
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@HWI-EAS443:3:85:802:87#0/1
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abb`^abbaaa`aa^baab`bb`ba_b]_a`aaaaba`
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+HWI-EAS443:3:85:85:1198#0/1
ababababb`b]bbabbbb_aaaaZabbaaaaaaa`Va
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+HWI-EAS443:3:86:1065:565#0/1
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+HWI-EAS443:3:86:1099:534#0/1
``baaabb_Z`aaabbaa¥_aa_]W¥`^aaaa`b``Xaa
@HWI-EAS443:3:86:1142:1187#0/1
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+HWI-EAS443:3:86:1142:1187#0/1
WWb`_`a_bbbZ_W_b`bb]abZPZbb_Z_aa]Ub[_]T
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+HWI-EAS443:3:86:1253:400#0/1
a_H_abbbbb_a¥___bbb`bba_^_]aaaaaab`[Yaa
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+HWI-EAS443:3:86:1257:954#0/1
ab[aaa_ab[`TXaaabb[^`]_^_b]a]^aaaU`a___W_
@HWI-EAS443:3:86:1461:877#0/1
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+HWI-EAS443:3:86:1461:877#0/1
aabbaba`b`_aabaaaa`a`b^aaaaa¥`ba]Tba^`aa
@HWI-EAS443:3:86:1559:903#0/1
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+HWI-EAS443:3:86:1559:903#0/1
ab`YYQTab^S[T`¥¥`^`_`aa^OaZa`_`_`^`F¥X```
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+HWI-EAS443:3:86:740:189#0/1
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+HWI-EAS443:3:86:929:1082#0/1
`bbaabb]bbbbbbbababab^bbbb¥[abbbbbba]aa
@HWI-EAS443:3:87:1228:1326#0/1
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+HWI-EAS443:3:87:1228:1326#0/1
aa[aaaa_aa__`aa`````aa¥_aa_aa`__`[_aa_]¥
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CATCATTCTTATAACTTCTGTTCGCATGTCGGATGTCCGT
+HWI-EAS443:3:87:1450:1763#0/1
ab__^^`b__ZX¥aGZaU_a_a¥]]UaaX`S_]_TGPLUO
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+HWI-EAS443:3:87:1486:1411#0/1
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+HWI-EAS443:3:87:1604:793#0/1
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+HWI-EAS443:3:87:211:763#0/1
ab]aaabb¥`a_^`a`aaa``aaa_a`````_^]``__^
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ACTGAGAATGTAGGCTGCACACTGATCTGGCCTGCGGATG
+HWI-EAS443:3:87:352:542#0/1
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GATTGCTTCAAATGAGAATGTGGAAACCATGGACTCCAAT
+HWI-EAS443:3:87:495:119#0/1
aaaaa`aaaaa`_aaa``aa^aa`__^`[`a_``^a__`^^
@HWI-EAS443:3:87:572:1142#0/1
ATCCGCAGGCCAGATCAGTGTGCAGCCTACATTCTCAGTG
+HWI-EAS443:3:87:572:1142#0/1
aa^a`a`__^_[QYYQ¥TW^T¥W^^W^_¥¥¥¥U¥^UW^
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+HWI-EAS443:3:87:787:405#0/1
]_]_^][_^ba`aa`__aa_Z__Za__aaaaaba`_^ZZa
@HWI-EAS443:3:87:854:1018#0/1
ACTGATCTGGCCTGCGGATGCCTTTTGTGATTGGTATTT
+HWI-EAS443:3:87:854:1018#0/1
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+HWI-EAS443:3:87:868:292#0/1
ab`_a`b`baaaaaa`baa```aaa]Y```_aaa_a¥_`
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GCTTCCACAAGAGGGTCCAGATTGCTTCAAATGAGAAT
+HWI-EAS443:3:87:924:1172#0/1
aa]^Z]ba`^a^]a`¥VZ^`¥^a[^`^`[^^^^a_a^Z`
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+HWI-EAS443:3:87:952:1937#0/1
aab`Za[_aab0a[aa[a^a`Y___XU`^``¥`Z__`¥Ga
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+HWI-EAS443:3:88:1069:1452#0/1
bZaa[^]baaab¥aa`_baa]Ybaa`]b^W_^XaXQZa
@HWI-EAS443:3:88:1277:1391#0/1
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+HWI-EAS443:3:88:1277:1391#0/1
a`a^¥¥aaa]babaabNb`aabbaaaMaZZ_b```aba_]`
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TGGTTTCCACATTCTCATTTGAAGCAATCTGGACCCCTCT
+HWI-EAS443:3:88:1422:1095#0/1
¥```aa^a^abaaa¥```abbaa`[aZ_^aa_`^YVY][`
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GTCGGATGTCCGTCCTTCATTGTTCCCGCTGAATGCTGCC
+HWI-EAS443:3:88:316:498#0/1
a_a]a]aa^Y`aWR_X`V`^^`Q_`a]_YPUV[W```¥¥¥`
@HWI-EAS443:3:88:678:1508#0/1
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+HWI-EAS443:3:88:678:1508#0/1
aaabbbbaaaaaaaaa`aaaa_`aaa`a```_X___]a
@HWI-EAS443:3:89:1002:1239#0/1
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+HWI-EAS443:3:89:1002:1239#0/1
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@HWI-EAS443:3:89:1221:970#0/1
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+HWI-EAS443:3:89:1221:970#0/1
ab```bbb``^aZaaababa``bb__aababaaaaaaaaa
@HWI-EAS443:3:89:1284:1392#0/1
AGTGATTCCAAGAGGAAAGCTTCCACAAGAGGGTCCAG
+HWI-EAS443:3:89:1284:1392#0/1
_`Zaaba]aa¥b^^V¥`ZQW```Xa`P^a][]^`aN¥^Ya

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+HWI-EAS443:3:89:1404:379#0/1
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@HWI-EAS443:3:89:1565:1914#0/1
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+HWI-EAS443:3:89:1565:1914#0/1
Ubbb`babaaZTZ`T]HT_bb¥]aaaa]`bTb_[baT]^
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+HWI-EAS443:3:89:302:841#0/1
aaaY`W`b]LXa_TS`aU`aZV`^Z`_a¥VYY`_`_¥H¥^
@HWI-EAS443:3:89:37:1971#0/1
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+HWI-EAS443:3:89:37:1971#0/1
]PNVY¥TW_V]_YZ[`[]`^S[VU^S^Y¥^^XW]ZY`ZX[
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+HWI-EAS443:3:89:578:61#0/1
ab^a`bbbabaabbaaaaa]aaa`^_aa`_aa_`W_`a`
@HWI-EAS443:3:89:599:1937#0/1
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+HWI-EAS443:3:89:599:1937#0/1
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@HWI-EAS443:3:89:665:2015#0/1
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+HWI-EAS443:3:89:665:2015#0/1
`aS_¥¥_bb_`]_Y[R^T]W^`Z`^`X]aPZ][ZTTH
@HWI-EAS443:3:89:794:518#0/1
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+HWI-EAS443:3:89:794:518#0/1
aaaa[a^a`[``ab`[aab`aY_ab^`aaa_aaa]R`_
@HWI-EAS443:3:89:955:454#0/1
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+HWI-EAS443:3:89:955:454#0/1
aaaab`b`aY_bbaba`]_]``]``aab`aaXaX___```
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+HWI-EAS443:3:89:993:1768#0/1
aaaaba`[`a`a`baaa]abaaaaaaaa^aaa`a_^a
@HWI-EAS443:3:8:1109:23#0/1
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+HWI-EAS443:3:8:1109:23#0/1
a[X_]TV^`NaUXYX]_U^`Z_^aGYVTPU_U00¥X¥B
@HWI-EAS443:3:8:110:1017#0/1
GGTATTTCTCCTCCTGGTCTTATGGCCAGTATCTG
+HWI-EAS443:3:8:110:1017#0/1
^ZYW_]^___`^]_¥]]`][Y][¥^¥¥`YY^¥XUYZSXZZ
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+HWI-EAS443:3:8:1110:1231#0/1
a_b_`aa^¥`_a^a_a)`]a_]¥U_U_VKX`XWVUUUZ^^
@HWI-EAS443:3:8:1136:866#0/1
AAAGTGATTCCAAGAGGAAAGCTTTCCACAAGAGGGGTCC
+HWI-EAS443:3:8:1136:866#0/1
__XbU[`aa]aa]abbaa`_TRaaa¥¥a¥_XNX[_^][HO]
@HWI-EAS443:3:8:1204:448#0/1
GGTCCAGATTGCTTCAAATGAGAATGTGGAAACCATGGAC
+HWI-EAS443:3:8:1204:448#0/1
ab[PU_`^TQW_a_`¥]P___`X`_T___][UQN]]_PRL
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CTGCACTGAGAATGTAGGCTGCACACTGATCTGGCCTGCG
+HWI-EAS443:3:8:1227:1444#0/1
`abaa]^aa][aV_V]^_^]ZXU^a¥^]QYPUU[¥T¥RBB
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GTTTCATAAGAGGAAAGAAAGTGATTCCAAGAGGAAAGCT
+HWI-EAS443:3:8:134:1260#0/1
a^]^`a_`]¥_ba`TZa[¥_KP_a`¥`I`_a__^_^_Y^^
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GAAATACCAATCAACAAAAGGCATCCGCAGGCCAGATCAG
+HWI-EAS443:3:8:1518:409#0/1
aaa^aa[aaa_]_]`¥__^_N`YW¥V]_¥ST¥UWWWB
@HWI-EAS443:3:8:1526:1825#0/1
CAATGAAGGACGGACATCCGACATGCGAACAGAAGTTATA
+HWI-EAS443:3:8:1526:1825#0/1
Ybabaa``^`T¥]aVab[YYa_bb¥X^]b]V^`¥`S^aaa
@HWI-EAS443:3:8:1538:417#0/1
GTTCCCGCTGAATGCTGCCATAACGTTGCTCTTTCAAAA
+HWI-EAS443:3:8:1538:417#0/1
_X[[[Xa^`a__aa_`_Z[¥`__UaVW_XRNR[¥¥QTY¥Y
@HWI-EAS443:3:8:167:1885#0/1
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+HWI-EAS443:3:8:167:1885#0/1
aaWa[_aa_ba``a_¥Z`_a_[a`_`[Yaa``^]`]`W`a
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ATCTGGACCCCTCTTGTGGAAAGCTTTCCTCTTGAATCA
+HWI-EAS443:3:8:475:1845#0/1
aaa`^__a____`^]V¥`aa`^¥X]`V^_]`^YORRWW]
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AGGCTGCACACTGATCTGGCCTGCGGATGCCTTTTGTGA
+HWI-EAS443:3:8:851:1247#0/1
abaa^aaaa]Y`a`a`^`a^`_]_a[]_aW¥]aaaZ_``[
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+HWI-EAS443:3:8:863:1580#0/1
aaababbbbbbbbbbbbbb`b`abbabab^b`abaaba
@HWI-EAS443:3:8:888:824#0/1
GAGGAAAGAAAGTGATTCCAAGAGGAAAGCTTTCACAAG
+HWI-EAS443:3:8:888:824#0/1
aa^VSaa^¥]aaZ`X[_^^]X^_U^Y^^[L¥]_^VZW^__

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+HWI-EAS443:3:90:1258:1203#0/1
R_aa`bbbb`_abb_aabba`a`aabb` `aabaaa`a]
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@HWI-EAS443:3:90:149:1011#0/1
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+HWI-EAS443:3:90:149:1011#0/1
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+HWI-EAS443:3:90:1554:1224#0/1
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+HWI-EAS443:3:90:1611:1610#0/1
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a^a` `aa^^_S`a`_]Y__`_W^_^_]^_]¥_____^
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+HWI-EAS443:3:90:327:1776#0/1
`bb_^`abbbabba`bb_ba_bba_a_`aaaa_a¥^aZ
@HWI-EAS443:3:90:478:407#0/1
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+HWI-EAS443:3:90:478:407#0/1
abS`aaaY¥X][^[^aa¥_]NWPOU^a_[X`Ha¥__Y__^
@HWI-EAS443:3:90:60:292#0/1
GAGAATGTAGGCTGCACACTGATCTGGCCTGCGGATGCCT
+HWI-EAS443:3:90:60:292#0/1
aa`_aY_Ra¥KX^][` `PP]LRUY_^_AT_¥TRRQVMDI
@HWI-EAS443:3:90:716:562#0/1
AGTGATTCCAAGAGGAAAGCTTTCCACAAGAGGGGTCCAG
+HWI-EAS443:3:90:716:562#0/1
[```[`bbba```ba`Z¥]¥`ba`^a]`]aYaa`^V`]]a
@HWI-EAS443:3:91:1083:312#0/1
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+HWI-EAS443:3:91:1083:312#0/1
a¥^X_`_Z]]^ZX]^_¥^^_^]Y]W]]^]]ZU^ZZ^ZUW
@HWI-EAS443:3:91:1166:1148#0/1
CCGTCCTTCAATGTTCCCGCTGAATGCTGCCATAACGGTT
+HWI-EAS443:3:91:1166:1148#0/1
¥abab` `ababbb` `babbbbbbbaabbbbbbabbab
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abb`aaaabaab]baaab¥aaaaVaaa^a`Sa``_`[U`
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+HWI-EAS443:3:91:1489:800#0/1
a`_bbaab¥bbabbab`b`aa`T`aU]abbbba``I``b
@HWI-EAS443:3:91:155:821#0/1
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+HWI-EAS443:3:91:155:821#0/1
aaaaaaabaaa_```aa_a`^aa`a¥¥a^__a_]`aX^_
@HWI-EAS443:3:91:1584:287#0/1
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+HWI-EAS443:3:91:1584:287#0/1
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+HWI-EAS443:3:91:1625:1392#0/1
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+HWI-EAS443:3:91:1714:760#0/1
VaVNSbba`aaR^RY`bbXSbb¥¥YaW[aS`_Y_`^`a_
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+HWI-EAS443:3:91:1782:599#0/1
a``ST^aa`aaa_a`]_^_]aa_^XX_]`S[]¥¥^`^^
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CTGCATTTGAAGATTTAAGAGTATCAAGTTTCATAAGAGG
+HWI-EAS443:3:91:249:1133#0/1
abbb`bbbb`bbbbabbba`babbbabbbbbbbb`a
@HWI-EAS443:3:91:340:1195#0/1
ATTCCTCCACTCCTGGTCCTTATGGCCAGTATCTGCTT
+HWI-EAS443:3:91:340:1195#0/1
ab^_bbabbaaaaaaaaaXaa`X__[aaaa_UU[¥^`[^
@HWI-EAS443:3:91:648:607#0/1
AAGAGTATCAAGTTTCATAAGAGGAAAGAAAGTGATTCCA
+HWI-EAS443:3:91:648:607#0/1
S___Z_X_L_b_0¥Xabb`Z_Za``b¥R^b¥¥0^aa````
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+HWI-EAS443:3:91:86:1485#0/1
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+HWI-EAS443:3:91:90:336#0/1
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+HWI-EAS443:3:92:1078:446#0/1
aba^aa_VT¥a[_[_WS¥aa_]^]^_ab`aaa_aa_aYa¥
@HWI-EAS443:3:92:1189:1962#0/1
AGTGATTCCAAGAGGAAAGCTTTCCACAAGAGGGTCCAG
+HWI-EAS443:3:92:1189:1962#0/1
_`Ya`a``aa`__^__aa¥_^^a_`_`a``_Y¥Z^RVR`^
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+HWI-EAS443:3:92:1197:1148#0/1
^U]TY_XUY]T¥QOY]Z[VXXZ[UOW¥RWY¥V¥Z^Z^ZYY
@HWI-EAS443:3:92:127:1460#0/1
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+HWI-EAS443:3:92:127:1460#0/1
aaa¥IX^baaaaa[]]aYQZ]^`T]_`¥^^_aa]W]`][_
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+HWI-EAS443:3:92:1344:867#0/1
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+HWI-EAS443:3:92:1791:1028#0/1
Wa_`a`^]abbbab`^^`a_X¥ba`aaaab`^^`^XTN__
@HWI-EAS443:3:92:255:939#0/1
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+HWI-EAS443:3:92:255:939#0/1
aaabb^^abX^V]aaaa_a``¥aaaa_`__a`a`____
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+HWI-EAS443:3:92:281:555#0/1
abaabababab`aaabbaab`baabb_`a`aaa_a`a``U
@HWI-EAS443:3:92:296:449#0/1
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+HWI-EAS443:3:92:296:449#0/1
abb`bb`_```a`_a_aa`]]`abaa[_`_`a_`[aaa`^
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+HWI-EAS443:3:92:45:171#0/1
ababbbabaa_bbb`bba^abbaabaaaa^__``]X¥_a
@HWI-EAS443:3:92:579:1933#0/1
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+HWI-EAS443:3:92:579:1933#0/1
_OXaaaaaba_Waa_`U``aa`__`^Va_Za^]^_Z_0__
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+HWI-EAS443:3:92:717:1460#0/1
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@HWI-EAS443:3:92:737:1836#0/1
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+HWI-EAS443:3:92:737:1836#0/1
`_K[^`U^[b¥[ab_a]U]^]T_a[aab]]aa_^a_UaZF
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+HWI-EAS443:3:92:776:21#0/1
aaabbaa`_aaaaaabaaa`aaaa[aa`_a`a^a¥]_`
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+HWI-EAS443:3:92:786:1044#0/1
]bab`_VYZ]¥`aWZZa_`¥a]aaaa]aa_a]a^`_¥`Y
@HWI-EAS443:3:92:863:1184#0/1
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+HWI-EAS443:3:92:863:1184#0/1
aa_aaaabaaaa``abaaba`aa``aaaa`_`_`^`]`_`
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CATCCGCAGGCCAGATCAGTGTGCAGCCTACATTCTCAGT
+HWI-EAS443:3:92:86:237#0/1
¥_abbb_a_abb`TTb`]`aaXaa_a`a^a^`aaaaQ`]V
@HWI-EAS443:3:92:897:1488#0/1
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+HWI-EAS443:3:92:897:1488#0/1
]baa[a^aaaa_a`a`aa`a```baaaaa`Z`aaaa`_`a
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+HWI-EAS443:3:93:1076:1878#0/1
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@HWI-EAS443:3:93:1120:25#0/1
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+HWI-EAS443:3:93:1120:25#0/1
aba`aa`_`GY`_`RY`a^^¥aaa[^U]O]UT`¥¥UVRUUZ
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+HWI-EAS443:3:93:1163:810#0/1
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+HWI-EAS443:3:93:1303:146#0/1
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+HWI-EAS443:3:93:1318:1527#0/1
aX^`^a_aa`aa_aa`S_aaV_aW]^__aa`X___XO_
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+HWI-EAS443:3:93:1404:268#0/1
a_a`_`a`aT^a]_Y`_S_¥¥W_[TQYWY¥WBBBBBBBBB
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+HWI-EAS443:3:93:1414:822#0/1
`a`Zb__`ab_`ab`a]Yab``_¥`aaU_`_¥`WTWY`
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+HWI-EAS443:3:93:1416:509#0/1
SP¥____P_aZ[^_UZ^aaXQYN¥[FL^_¥`[Q`][YS[PX
@HWI-EAS443:3:93:242:524#0/1
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+HWI-EAS443:3:93:242:524#0/1
]QXYa^a]aa]``^aZa`X_a``____X¥U^_[[Q^S_
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+HWI-EAS443:3:93:273:277#0/1
aaaa[X]a`aaaa`a`__a_a_a`__a`^`__[_`][T
@HWI-EAS443:3:93:453:294#0/1
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+HWI-EAS443:3:93:453:294#0/1
``a``b^^]``^^aba``aba^`_V][^a][_Z¥Z^`
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+HWI-EAS443:3:93:473:526#0/1
aababbaba`a`^baaa`abbbaaaZ`_a`aaa_a]`_`
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+HWI-EAS443:3:93:539:960#0/1
]QXbaab`V¥VX]W^][^`aa`_Za`X_a_a[_a^^]U_
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+HWI-EAS443:3:93:607:1819#0/1
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@HWI-EAS443:3:93:616:320#0/1
AGGGGTCCAGATTGCTTCAAATGAGAATGTGGAAACCATG
+HWI-EAS443:3:93:616:320#0/1
^ZUTUW_bba]^`aa`a]a`U[aaTX`_aZa]`]`WfY`B
@HWI-EAS443:3:93:63:682#0/1
AGTGATTCCAAGAGGAAAGCTTCCACAAGAGGGGTCCAG
+HWI-EAS443:3:93:63:682#0/1
aa^a_a`aaaa¥aa`[^`_`__^`^`^____]^`^`_ZSX]^
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+HWI-EAS443:3:93:690:1083#0/1
`a]bb_ab`aWa`b¥`bb_b`aaU[Y_____a^^¥a_
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+HWI-EAS443:3:93:737:2004#0/1
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+HWI-EAS443:3:93:98:1538#0/1
`_U¥Wa]a^R`]_X_UZYL`a_T]`__a^__`^a[^
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+HWI-EAS443:3:94:1009:1496#0/1
]_Za]aa]a_abV_a^¥_]XWa__a¥_]Y]_`^^^^¥`_
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+HWI-EAS443:3:94:1026:1000#0/1
aaa`aaaa_a`aaaabaa^aa`aaaa^]`_a`a`__a
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AGTGATTCCAAGAGGAAAGCTTTCCACAAGAGGGGTCCAG
+HWI-EAS443:3:94:1050:614#0/1
aa_b`aaaaaaaa`aab`a`aaa¥`_`aaaa`a¥[¥aa
@HWI-EAS443:3:94:1142:1446#0/1
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+HWI-EAS443:3:94:1142:1446#0/1
[`aa^`a`a`a`abaaaaab`abaaaaaaba`abaa]
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+HWI-EAS443:3:94:309:488#0/1
_[ab`^`^]b`aaWV]]ba]¥ba¥¥a`a`^^[_N[_`][
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+HWI-EAS443:3:94:352:887#0/1
aba_a`abbbaaa^¥_aa[a__aaaa`aaaa[R¥a]¥a_
@HWI-EAS443:3:94:638:1078#0/1
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+HWI-EAS443:3:94:638:1078#0/1
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a]Q_b__aaa`^[a]aaabaa`aab`Y_Y_VG_]¥]XYTY
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+HWI-EAS443:3:94:971:394#0/1
_`[a`a^Z^Z¥_S¥_KXabaZ_¥RP]`[aab`bbYYTHJ_
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+HWI-EAS443:3:95:1045:844#0/1
aaaa^b_aababaaba`aaaaaaaa_]baa_^aaa`b_aa

@HWI-EAS443:3:95:105:562#0/1
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+HWI-EAS443:3:95:105:562#0/1
aa_Pababab]aaa``aa^][¥``]`a_aYaa¥a^__`
@HWI-EAS443:3:95:1197:622#0/1
GACCAGGAGTGGAGGAAATACCAATCAACAAAAGGCATCC
+HWI-EAS443:3:95:1197:622#0/1
``_a^b`Sa_bb`baa_aa`Z_a`a^aaVa`^_``N_]GS
@HWI-EAS443:3:95:1211:543#0/1
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+HWI-EAS443:3:95:1211:543#0/1
^_^_b_T`_^aTTZZ__^a[]a_[I^]a¥`[`Q_WF^R``
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+HWI-EAS443:3:95:125:869#0/1
aab^`abaaa`a`a__`¥_WV_S_a_Q__aN]¥]_VW¥Q
@HWI-EAS443:3:95:1367:1045#0/1
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+HWI-EAS443:3:95:1367:1045#0/1
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+HWI-EAS443:3:95:1470:1103#0/1
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+HWI-EAS443:3:95:443:1943#0/1
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a`_Ya__aa¥__ZZWaa`a^[RGX`_]_]_^ZLN]]ZXZYV
@HWI-EAS443:3:96:1029:1401#0/1
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+HWI-EAS443:3:96:1029:1401#0/1
a_aaaa_`]a`^aa``aa^UUa`__a`Y]^^^`_WaXUU_
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+HWI-EAS443:3:96:1032:213#0/1
a_a]a_W^bZba[`a_]b^a^a_R]aHZbW^a`_Z`a^__
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+HWI-EAS443:3:96:1087:1883#0/1
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@HWI-EAS443:3:96:1091:560#0/1
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+HWI-EAS443:3:96:1091:560#0/1
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+HWI-EAS443:3:96:1327:1188#0/1
a_aaa^a_`a_aa_`Za`__`_`__YRXZ`^_]_^]WLY
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+HWI-EAS443:3:96:1540:1616#0/1
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@HWI-EAS443:3:96:1644:606#0/1
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+HWI-EAS443:3:96:1644:606#0/1
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aaab[aabbaaaaa`a`¥a¥aa_`_]_[]_Y^_X^^[NYV
@HWI-EAS443:3:96:383:666#0/1
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+HWI-EAS443:3:96:383:666#0/1
¥]`]bbb^T__Zba`aa_NL¥`aa¥^^¥]_aaaXaZBBBB
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GAGGAAAGCTTTCCACAAGAGGGTCCAGATTGCTTCAAA
+HWI-EAS443:3:96:448:1183#0/1
aaaT_babaab__baaa`aa`aa^]_`aaaa`a^a^^a__
@HWI-EAS443:3:96:532:268#0/1
GAAAGAAAGTGATTCCAAGAGGAAAGCTTTCCACAAGAGG
+HWI-EAS443:3:96:532:268#0/1
aaa`baa`a_`a`aaaa_a_a_aaaU`_`Z^`a[`_`__
@HWI-EAS443:3:96:550:258#0/1
GTTTCATAAGAGGAAAGAAAGTGATTCCAAGAGGAAAGCT
+HWI-EAS443:3:96:550:258#0/1
a_]`K_P_[`_`UUY^`YY¥aUaQRTZY]]X__W^_]WX
@HWI-EAS443:3:96:659:1507#0/1
CGCAGGCCAGATCAGTGTGCAGCCTACATTCTCAGTGCAG
+HWI-EAS443:3:96:659:1507#0/1
_W`_a`_abb¥¥]a_FTPaa¥_[a]`a_a`¥^`a]P]NV_
@HWI-EAS443:3:96:742:1050#0/1
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+HWI-EAS443:3:96:742:1050#0/1
]aVaa_b]bb`[]`_bbbbbbUbaaa`aaU`ab_aabaa
@HWI-EAS443:3:96:868:561#0/1
GGTGTGGATGGCATGCCACTCTGCTGCATTTGAAGATTTA
+HWI-EAS443:3:96:868:561#0/1
aaX`_ab[[`][`¥¥¥__a^a[S[aaYX`^a_Y[`^_^`a

@HWI-EAS443:3:96:890:502#0/1
ATTGGTATTTCTCCACTCCTGGTCCTTATGGCCCAGTAT
+HWI-EAS443:3:96:890:502#0/1
abaab_aaaa_aaa_a`_]_a]V_]____`_]_UX__X__
@HWI-EAS443:3:97:1192:141#0/1
GAAGGACGGACATCCGACATGCGAACAGAAGTTATAAGAA
+HWI-EAS443:3:97:1192:141#0/1
a`^a^a_a`[¥_aVU_^R¥_^U`__G^_¥^]]a_`]]][S]
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GAAAGTGATTCCAAGAGGAAAGCTTTCCACAAGAGGGGTC
+HWI-EAS443:3:97:1323:874#0/1
ab[aaS`_ab]aabaabaaa_Waa_X^`_a`aaa`TVH
@HWI-EAS443:3:97:1517:422#0/1
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+HWI-EAS443:3:97:1517:422#0/1
a`a[Z¥TTYaUb`a_S^bba]ababa``____G[bab]Jaa
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+HWI-EAS443:3:97:154:534#0/1
VaXZ0b]T¥a`]PP]a[Z^[_aa`^aa[H_VGLJU_
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+HWI-EAS443:3:97:158:876#0/1
aPON¥`[VUZxw_Vaaa_a____NNN_[aTY^LNRUXYTWB
@HWI-EAS443:3:97:1702:625#0/1
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+HWI-EAS443:3:97:1702:625#0/1
abaa`¥_abb_b_baaaa_aaaaYUa`aTa`¥`_]`^VG_
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+HWI-EAS443:3:97:1779:396#0/1
aaX__b¥X`Z^a`Z_¥¥Y`W`_PV]a`][X[¥JRWVX
@HWI-EAS443:3:97:217:37#0/1
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+HWI-EAS443:3:97:217:37#0/1
a`¥`bbb`aba_^^aaaabbaaa`^^^_a¥a^a`_`[_aa
@HWI-EAS443:3:97:297:75#0/1
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+HWI-EAS443:3:97:297:75#0/1
aa^b_a`a^_ba^^_^^`a¥^_aa__[VW[_¥XaXZ[] []
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CACACTGATCTGGCCTGCGGATGCCTTTTGTGATTGGTA
+HWI-EAS443:3:97:311:85#0/1
`bab_abaaabba`a`ba]_a[^aaaba_aaVa_U`NZ
@HWI-EAS443:3:97:431:301#0/1
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+HWI-EAS443:3:97:431:301#0/1
``aa`aa````aaa`^^aaZ`a____]`]Z¥Y_¥¥]^]YU
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+HWI-EAS443:3:97:451:1210#0/1
a[¥^`S`aXH¥ZaaUWUaV[]W]P_a]bZa^LT_¥[X¥b]
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GTGGAGGAAATACCAATCAACAAAAGGCATCCGCAGGCCA
+HWI-EAS443:3:97:526:1340#0/1
_^baab`aaaa`__aXa`¥aZ_aa_^V__¥aZa]_a_¥¥Z
@HWI-EAS443:3:97:562:1702#0/1
CTCTTGTGGAAAGCTTCTCTTGAATCACTTCTTTCC
+HWI-EAS443:3:97:562:1702#0/1
abV^N`^`a[aa][__a^Y]a^[]`¥`^a^`^^__ZW^ZM
@HWI-EAS443:3:97:811:447#0/1
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+HWI-EAS443:3:97:811:447#0/1
a[ab_a_aababa^]b`^`a_aaaaV`]NX_a_a]0]a`
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+HWI-EAS443:3:97:881:96#0/1
abb_bbbabbbbbbbbabbbabb`bababb_abaababb
@HWI-EAS443:3:97:953:270#0/1
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+HWI-EAS443:3:97:953:270#0/1
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+HWI-EAS443:3:97:968:183#0/1
]UV`a[G¥a_Uaaa`a¥TX_Wa][¥__SW^QTU¥¥]G¥B
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+HWI-EAS443:3:97:984:1155#0/1
Sa¥bbb¥Ybbaaaa`S`aaa`ba_]_aabba`^`ab__`aa
@HWI-EAS443:3:98:1180:1714#0/1
AGTGATTTCAAGAGGAAAGCTTTCCACAAGAGGGGTCCAG
+HWI-EAS443:3:98:1180:1714#0/1
ab`baab`[M`bbaaRbabI_`^`¥_a`^R¥baaaaU__`a
@HWI-EAS443:3:98:1185:431#0/1
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+HWI-EAS443:3:98:1185:431#0/1
]_`_a[`ZW_a]a]HY[b`a¥Sbbbabaaaba____`^`ab]
@HWI-EAS443:3:98:127:1873#0/1
CAGGGTATTGGAGTCCATGGTTTCCACATTCTCATTTGAA
+HWI-EAS443:3:98:127:1873#0/1
aaa[SG^_T`^`]]¥W`b^¥YNT__aaa`_a`_Ya`]]_[]¥
@HWI-EAS443:3:98:1415:304#0/1
GGTGTGGATGGCATGCCACTCTGCTGCATTTGAAGATTTA
+HWI-EAS443:3:98:1415:304#0/1
ab_b^bbaabaGaa_¥]a^__^aZ_ZW^aabY¥aa¥^ab_
@HWI-EAS443:3:98:1495:1780#0/1
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+HWI-EAS443:3:98:1495:1780#0/1
aba_[ZL]]babaabVaUaP^a_`^`aa_`_a¥_Va`^`^`a

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+HWI-EAS443:3:98:158:220#0/1
¥baX`aWa^a_aZTN__b^aaba^aI_`_a^`T^]Z_a[
@HWI-EAS443:3:98:1607:768#0/1
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+HWI-EAS443:3:98:1607:768#0/1
^ab`b]^]aba]^a]¥¥HZa]X^ab`^`ab_aQaaV_Xa
@HWI-EAS443:3:98:641:559#0/1
AAGGACCAGGAGTGGAGGAAATACCAATCAACAAAAGGCA
+HWI-EAS443:3:98:641:559#0/1
a]abZb`_L0aQ`]YZ[_a^`[_`_^]_____a_`a¥_`
@HWI-EAS443:3:98:643:378#0/1
CCCCTCTTGTGGAAAGCTTTCCTCTTGAATCACTTTCTT
+HWI-EAS443:3:98:643:378#0/1
a_Y_b]bbba`_^`aa]^`aaaQa]^abaaaa]^`_aaaUaa
@HWI-EAS443:3:98:753:1378#0/1
ACACTGATCTGGCCTGCGGATGCCTTTTGTGATTGGTAT
+HWI-EAS443:3:98:753:1378#0/1
]a¥Z_bba¥ab`ZUZ_PT^Z]H]Y^aa¥YY`I^S][`__Q
@HWI-EAS443:3:98:761:1197#0/1
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+HWI-EAS443:3:98:761:1197#0/1
RYba^`a_baa_`bb`b_¥^``a_`a`a`a¥_aa`aaa
@HWI-EAS443:3:98:773:759#0/1
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+HWI-EAS443:3:98:773:759#0/1
a`aa`^baaaa__`_aaaa`[ab_¥aaa]]_a]^`ba_aa`
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CATGGTTTCCACATTCTCATTTGAAGCAATCTGGACCCCT
+HWI-EAS443:3:99:1322:1508#0/1
[bbbb_bb_Wbbbbbb_abb`aababbbbbbbbaYU[NWb
@HWI-EAS443:3:99:136:95#0/1
GAGTGGAGGAAATACCAATCAACAAAAGGCATCCGCAGGC
+HWI-EAS443:3:99:136:95#0/1
a¥aW_aYaa¥Z__¥T^_U_WWVN¥SVTWWWYWNWWBBBB
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+HWI-EAS443:3:99:1643:1991#0/1
_`aa_b^G^^^a__a_a]^Z¥[___U]Y_Z]^ZXRZ]_
@HWI-EAS443:3:99:165:1388#0/1
AGCAACCGTTATGGCAGCATTCTCAGCGGAACAATGAAGGA
+HWI-EAS443:3:99:165:1388#0/1
aa[[]a`b_aa`aaa`]XNS`^X^U`X^G[___¥BBBBBBB
@HWI-EAS443:3:99:212:292#0/1
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+HWI-EAS443:3:99:212:292#0/1
ab¥bbbbabb_`bXbbbbbaabbbba^bbaaaabaaaaaba
@HWI-EAS443:3:99:225:625#0/1
GACCCCTCTTGTGGAAAGCTTTCCTCTTGAATCACTTTC

+HWI-EAS443:3:99:225:625#0/1
a]`a```a`Z__^Z^____`_]_]____^]]]]^UY[W
@HWI-EAS443:3:99:347:1617#0/1
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+HWI-EAS443:3:99:347:1617#0/1
GT_Zb]b`abb`babbbbbbabbbaaba`abaa[aabbb
@HWI-EAS443:3:99:533:1147#0/1
GAGGAAAGAAAGTGATTCCAAGAGGAAAGCTTTCCACAAG
+HWI-EAS443:3:99:533:1147#0/1
a^R^T`a_]S`a_a`aab^[aaa_[a`]UaaW^^a^`^_
@HWI-EAS443:3:99:542:377#0/1
GTGATTCCAAGAGGAAAGCTTTCCACAAGAGGGGTCCAGA
+HWI-EAS443:3:99:542:377#0/1
`RYHXZ`Z]_aa_b_`^a[`[aTa_H` [`_[aa_YZV_a_
@HWI-EAS443:3:99:630:934#0/1
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+HWI-EAS443:3:99:630:934#0/1
aaa`b_bbaa__aaa_`b`aba^a`Y_aaba^X%` `]^
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+HWI-EAS443:3:99:678:1617#0/1
aV[`Sa_ZS]a`[_aaYa^%]F`_^[XR` `aa`__%^^R`
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+HWI-EAS443:3:99:860:530#0/1
a_`bba_babba^Ybba^[aa`aba^]] [a_aa_`aaaaX
@HWI-EAS443:3:99:865:1752#0/1
AGAGTATCAAGTTTCATAAGAGGAAAGAAAGTGATTCCAA
+HWI-EAS443:3:99:865:1752#0/1
aaaaT_`^VSbIaa`a_a`aa]baaa`_[_aYaaa_`U_`
@HWI-EAS443:3:99:880:1136#0/1
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+HWI-EAS443:3:99:880:1136#0/1
a^a`ba` `bbba`abbbbabbabbbaabb^abbabb`b
@HWI-EAS443:3:99:934:1440#0/1
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+HWI-EAS443:3:99:934:1440#0/1
_babaababbbabaabababbbabba^bbabbbbabb`bb
@HWI-EAS443:3:99:969:523#0/1
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+HWI-EAS443:3:99:969:523#0/1
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@HWI-EAS443:3:9:1094:35#0/1
AAAGAAAGTGATTCCAAGAGGAAAGCTTTCCACAAGAGGG
+HWI-EAS443:3:9:1094:35#0/1
GY___a]a%a`a_¥abbba_V%]b^` ` _XI]Y[^b[bba
@HWI-EAS443:3:9:1135:1820#0/1
GTCCAGATTGCTTCAAATGAGAATGTGGAAACCATGGACT
+HWI-EAS443:3:9:1135:1820#0/1
`^a^aaa` `a^a`Y_`aa[T` ` `a`Za__a^_Va_`]YW_

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+HWI-EAS443:3:9:1188:1430#0/1
aaa]_aa_b¥aaa_¥`aaaa`aa¥Z`]`a` `` _`a]__a]
@HWI-EAS443:3:9:1474:688#0/1
GAGGAAAGAAAGTGATTCCAAGAGGAAAGCTTTCCACAAG
+HWI-EAS443:3:9:1474:688#0/1
aQ]RR__]_WXXR_^WVNW^TX_^Y]UPWXYXWRRNUUB
@HWI-EAS443:3:9:1546:1411#0/1
GACCCCTCTTGTTGAAAGCTTTCTCTTGAATCACTTTC
+HWI-EAS443:3:9:1546:1411#0/1
aa]aa^^Yba_]a`^a]¥¥]a¥[____Z` _[__R]H¥`a^
@HWI-EAS443:3:9:1560:674#0/1
GAAAGCTTTCCACAAGAGGGTCCAGATTGCTTCAAATGA
+HWI-EAS443:3:9:1560:674#0/1
a`Y]XN^[^S¥Y^__`^a`¥[TZNP` _`^`Z^ZV_^WV]]
@HWI-EAS443:3:9:196:1349#0/1
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+HWI-EAS443:3:9:196:1349#0/1
_^`Y`^HWVYSV¥aaZ`a`¥^a`¥XIPZ`a`Sa^]WTHSV
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+HWI-EAS443:3:9:198:480#0/1
^P`a[_[aaXSZ¥a` _`^a_]`_^[Z`^`_^ZV_ZZ[¥U¥
@HWI-EAS443:3:9:223:1608#0/1
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+HWI-EAS443:3:9:223:1608#0/1
ababaaa`ab_X`a` _`¥^`aaY[a`a`ba]V]^_Yaa_a
@HWI-EAS443:3:9:272:625#0/1
AATCTGGACCCCTCTTGTTGAAAGCTTTCTCTTGAATC
+HWI-EAS443:3:9:272:625#0/1
¥V` `abb` `baaa` __SRU[^U^]` _` `` _`^` _a` ^` ^`
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CCCTCTTGTTGAAAGCTTTCTCTTGAATCACTTTCTTT
+HWI-EAS443:3:9:300:171#0/1
X` ^` bbb` bbb` Xa^[ab_[¥aa^bbaa¥`YaZ`a`U`_a
@HWI-EAS443:3:9:392:461#0/1
CTCTTGTTGAAAGCTTTCTCTTGAATCACTTTCTTCC
+HWI-EAS443:3:9:392:461#0/1
a`aa^ZO` _`ab`bbabaabb_aabab`_^a_aaaaaYV` _`
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GGAAATACCAATCAACAAAAGGCATCCGCAGGCCAGATCA
+HWI-EAS443:3:9:581:962#0/1
a`_XV]_` `` `` _VY[YXPXZ__Y^S¥QSWS¥W¥Q¥WUBBB
@HWI-EAS443:3:9:594:1060#0/1
AGTGATTCCAAGAGGAAAGCTTTCCACAAGAGGGTCCAG
+HWI-EAS443:3:9:594:1060#0/1
aaaa`a`baa_ba`a_aa_a__`^`aaa[` ____`^`U0` `a
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GAAATACCAATCAACAAAAGGCATCCGCAGGCCAGATCAG

+HWI-EAS443:3:9:740:729#0/1
abaaab`_ba`b`aaaa_aa`a`¥^a]a_`¥¥`_]¥W``
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GAAGGACGGACATCCGACATGCGAACAGAAGTTATAAGAA
+HWI-EAS443:3:9:882:478#0/1
ZV¥`^^b¥]^aaa`ba¥WT]Ya^]¥[_a]_0]`_]^a[_
@HWI-EAS443:3:9:969:326#0/1
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+HWI-EAS443:3:9:969:326#0/1
aaa`aaaa¥a_a`a`aZ`^^]WYV^¥_____Z¥^]^
@HWI-EAS443:3:99:396:77#0/1
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+HWI-EAS443:3:99:396:77#0/1
_aaaababab_baaa`ab_aa^bba¥]K[_aaZ`_aaYa
@HWI-EAS443:3:34:1785:1108#0/1
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+HWI-EAS443:3:34:1785:1108#0/1
¥b[¥__`Va00^V_S`]HSYZ`_]aaURZWBBBBBBBBBB
@HWI-EAS443:3:85:1623:861#0/1
GCTGTCGTTACACCTTTGTTGAGTCATGATTGGGCCATG
+HWI-EAS443:3:85:1623:861#0/1
`^a`a`_ab`T¥Y]`a^`a]a^`]¥Z`_`a`_`a]]`¥
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+HWI-EAS443:3:1:1127:854#0/1
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@HWI-EAS443:3:28:535:947#0/1
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+HWI-EAS443:3:28:535:947#0/1
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@HWI-EAS443:3:45:1221:849#0/1
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+HWI-EAS443:3:45:1221:849#0/1
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+HWI-EAS443:3:56:1667:770#0/1
a^abaabbaa_`X`aaa`aa`RYOHXGG[SY[BBBBBBBB
@HWI-EAS443:3:61:1094:1424#0/1
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+HWI-EAS443:3:61:1094:1424#0/1
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+HWI-EAS443:3:20:520:97#0/1
a`aba¥^]`bYaaWVa_R`BBBBBBBBBBBBBBBBBBBB
@HWI-EAS443:3:32:1418:734#0/1
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+HWI-EAS443:3:32:1418:734#0/1
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+HWI-EAS443:3:43:1548:1209#0/1
a_ab]abb`b_ba``aaaU`BBBBBBBBBBBBBBBBBBBB
@HWI-EAS443:3:69:1070:263#0/1
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+HWI-EAS443:3:69:1070:263#0/1
a_bbaaa_Q_a_b^baab`S^aBBBBBBBBBBBBBBBBBBBB
@HWI-EAS443:3:6:1156:1032#0/1
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+HWI-EAS443:3:6:1156:1032#0/1
a`aa_a]a`V_TR[P]][^`ZFZTUMBBBBBBBBBBBBBBB
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__¥__`Z`¥_¥]bbba``¥Z¥^KQTEXY_¥GX^BBBBBBB
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+HWI-EAS443:3:90:972:1333#0/1
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@HWI-EAS443:3:91:140:1711#0/1
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+HWI-EAS443:3:91:140:1711#0/1
abba[a`b_[]^aba_T]baWa¥^a_] [a__VT^SFVVYP
@HWI-EAS443:3:93:1483:652#0/1
TGCCTAGTCTGATTAGCAACCTCCATGGCTTCTGCTGCCT
+HWI-EAS443:3:93:1483:652#0/1
` ` ` ` a`^_aba` ` _aa_aU] `a__ ` [[_ZZ]US[[NR_
@HWI-EAS443:3:93:675:919#0/1
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+HWI-EAS443:3:93:675:919#0/1
__^a^aabbba^^^aa¥]¥a`_[HZTDXTR¥YJTBBBBB
@HWI-EAS443:3:94:69:570#0/1
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+HWI-EAS443:3:94:69:570#0/1
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+HWI-EAS443:3:95:1260:1165#0/1
W¥UI_b[Y`ab[bb` `baa_bb_aYBBBBBBBBBBBBBB
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GAAAACAGAATGGTGGCTAGCACTATGGCAAAGGCTA
+HWI-EAS443:3:96:374:1306#0/1
` `]a`^Y_] [[Y]U] `YP] `VXXZT[TFL`UWZQ__HT]
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+HWI-EAS443:3:98:1250:1123#0/1
`a¥aaVb^RUMR_H_¥aaZJZ]_aV`_ZW[Z[RLZ_]Z_J
@HWI-EAS443:3:99:1004:285#0/1
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+HWI-EAS443:3:99:502:261#0/1
a_[]aZRV[]TTbRa[XVGF¥`^YZZ_QU]¥VFSaP]UMB
@HWI-EAS443:3:28:913:478#0/1
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+HWI-EAS443:3:28:913:478#0/1
_T]`aaZ_aa[a][0¥`¥^_QU_¥[[BBBBBBBBBBBBBBB
@HWI-EAS443:3:33:650:455#0/1
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+HWI-EAS443:3:33:650:455#0/1
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+HWI-EAS443:3:57:176:1880#0/1
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@HWI-EAS443:3:78:305:1063#0/1
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+HWI-EAS443:3:78:305:1063#0/1
abbabbabbbb`a``YTZaaaa^^```^`[_^_^[]Y
@HWI-EAS443:3:79:967:301#0/1
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+HWI-EAS443:3:79:967:301#0/1
X_`a^a^^XXb[`a[¥`bbZWZ[`__L¥^aT`baa^_^[S
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+HWI-EAS443:3:91:1198:1691#0/1
ZbbVVG_ba`^Z]X]__Sa]aabaaba`a`ZX_]¥ELY
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+HWI-EAS443:3:16:1501:1871#0/1
aa`aa^bbabbbbaTDY`bba¥W^b`_MV^^abb^Ta]PW
@HWI-EAS443:3:17:1304:1424#0/1
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+HWI-EAS443:3:17:1304:1424#0/1
`bba^DZbbbbbabbbb_aaaaaaab```]aa`Xa_^R`
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+HWI-EAS443:3:56:948:1074#0/1
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+HWI-EAS443:3:60:448:717#0/1
aaaa`aaaa^aaa]aZD[a`a`__`_a_aa_```]¥¥¥¥
@HWI-EAS443:3:62:652:671#0/1
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+HWI-EAS443:3:62:652:671#0/1
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+HWI-EAS443:3:66:1324:1423#0/1
ab`]bbbbababbaaaba]bbabaaa^D[a` ``Y^aHX
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+HWI-EAS443:3:70:1466:1493#0/1
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+HWI-EAS443:3:83:1697:883#0/1
_` `ab][X_a¥a` ``ZOZ]¥UXU[^MM_VBBBBBBBBBBB
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+HWI-EAS443:3:97:487:1485#0/1
_^aba¥Z`baXaa_b_]`^`aa_YD[aaa`¥_` `aaYa]X
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@HWI-EAS443:3:24:70:831#0/1
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+HWI-EAS443:3:24:70:831#0/1
`L`Z_`_`[ZSR`aa]TTTZXON_W]X¥Z¥WOYV¥Y[SV^
@HWI-EAS443:3:27:766:175#0/1
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@HWI-EAS443:3:36:1119:626#0/1
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+HWI-EAS443:3:36:1119:626#0/1
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+HWI-EAS443:3:50:1036:78#0/1
a][baVaba`aYaabaa`T`_NY_V_^PV¥¥^UZQ[LVZX
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+HWI-EAS443:3:61:569:1523#0/1
VI`Ra[aa^W_`]XVax¥VT]WU`a¥__ZTVXT¥¥XDD
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+HWI-EAS443:3:93:1331:664#0/1
aaaa`] _aaa^]Z`_PQ¥Ua`VW[X^aP]BBBBBBBBBBBB
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aaba[]a[Haa¥ab]a]_[^U]aQaaU^X`[aMPZX` `J`

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+HWI-EAS443:3:16:827:1426#0/1
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@HWI-EAS443:3:22:800:1425#0/1
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+HWI-EAS443:3:22:800:1425#0/1
aabaaa`aa_a^aaa`aa[Z`_BBBBBBBBBBBBBBBBBB
@HWI-EAS443:3:23:1131:385#0/1
AGCCATTTGTCTGTGAGACCGATGCTGTGAATCAGCAATA
+HWI-EAS443:3:23:1131:385#0/1
`Z^`b]]ab]JZa``ba_¥`ZXRV[¥a`^X`][X_[TZMD
@HWI-EAS443:3:27:1254:1367#0/1
GCTGCCTAGTCTGATTAGCAACCTCCATGGCCTCTGCTGC
+HWI-EAS443:3:27:1254:1367#0/1
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@HWI-EAS443:3:29:1400:803#0/1
CTTTGCCGTAGTGTAGCCAGCACCATTTCTGTTTTTCATGA
+HWI-EAS443:3:29:1400:803#0/1
U`VQR[abYbbY``¥Z_^]b[``WGOBYaba_a`K`a]F
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+HWI-EAS443:3:32:1078:258#0/1
^^`XWWV__OV_Y___`]`a`[aZ`R`aXMX^^N`VaX_^
@HWI-EAS443:3:34:121:1844#0/1
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+HWI-EAS443:3:34:121:1844#0/1
]aa^]a`^`QVa^[a^¥aM^aaa`¥_Z^OTR__^_¥UWBB
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+HWI-EAS443:3:37:1650:1331#0/1
W_aba^^T_Vb]`]abab^a_UPUR¥`F_PX^b¥`UVYZF
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ACTGCCTAGTCTGATTAGCAACCTCCATGGCCTCTGCTGC
+HWI-EAS443:3:40:456:149#0/1
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+HWI-EAS443:3:4:358:1350#0/1
`baaa`a¥aYa`a`_]Za_a_[R`^Z_aaS[W]_VZ¥Z¥V
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+HWI-EAS443:3:50:1135:1518#0/1
^aUaba^a``bb^]aa^^a``¥ORWq]`a`¥b``]J¥YUW
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+HWI-EAS443:3:51:1102:899#0/1
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+HWI-EAS443:3:58:411:1086#0/1
`a`aaaaaa^)`aaa]a`^_]`^`^^`^^a¥`^^^V^^`¥
@HWI-EAS443:3:62:747:897#0/1
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+HWI-EAS443:3:62:747:897#0/1
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@HWI-EAS443:3:68:239:1495#0/1
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+HWI-EAS443:3:68:239:1495#0/1
ab`V]`[R`a¥a¥`b_S^```]a_Z`a[aa^^[ZaV^`[^
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+HWI-EAS443:3:69:926:663#0/1
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+HWI-EAS443:3:76:461:1643#0/1
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@HWI-EAS443:3:79:970:453#0/1
GCTGCCTAGTCTGATTAGCAACCTCCATGGCCTCTGCTGC
+HWI-EAS443:3:79:970:453#0/1
ababaaaab`abbabaabaa``abaaaaa]]aZaWKX]^
@HWI-EAS443:3:81:508:2039#0/1
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+HWI-EAS443:3:81:508:2039#0/1
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CGGTGCTGGCTAGCACTACGGCAAAGGCTATGGAACAGAT
+HWI-EAS443:3:83:61:959#0/1
aa^Uaa_aZaQaY]]¥[VU[Y`¥¥YV[_WXQUYUU¥UUUW
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+HWI-EAS443:3:84:935:211#0/1
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+HWI-EAS443:3:100:1300:107#0/1
aaa^`__`bb`YVa`ba^W_P_b]ba``bHS_a¥__`_aa
@HWI-EAS443:3:100:684:185#0/1
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+HWI-EAS443:3:100:684:185#0/1
abbaaaa_a`aaa_`a`aSaa`a^____Z__^_]`Z`^^B
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TGCTGATTCACAGCATCGGTCTCACAGACAAATGGCTACT
+HWI-EAS443:3:100:760:1113#0/1
_a_a]__N]`R__I_a_YaZ^^R¥¥`_QH_^]GVBBBBB
@HWI-EAS443:3:10:113:46#0/1
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+HWI-EAS443:3:10:113:46#0/1
a_`WO^¥`aa^Z[¥Y¥V¥[[[¥¥¥XPS[V[¥[V¥SWWW¥

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abbabbb`aa]aaabbaa`[b`[b_]`^aaaSaaaR`^Ya^
@HWI-EAS443:3:10:1295:1244#0/1
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+HWI-EAS443:3:10:1295:1244#0/1
a`b`^abaaa`aaY__aa]Z^`aa_ab^a^` ` ` a^_^_]
@HWI-EAS443:3:10:327:523#0/1
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+HWI-EAS443:3:10:327:523#0/1
a`aaabaaa_`aa_aaaa^_`_`_]`_Va` ` ^_^]__]]
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+HWI-EAS443:3:10:339:2040#0/1
aba`YVaaa^aa`aa]_`_^_]aTU`a_a`_¥_`___¥X]
@HWI-EAS443:3:10:422:753#0/1
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+HWI-EAS443:3:10:422:753#0/1
Q]a`^a` ` ^]`^^¥^^`V^^^WW^¥^¥_WW¥¥^WWW¥
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+HWI-EAS443:3:10:746:1257#0/1
abbaaa`a^aaa__`_`a_a` `^Y^_[_`_¥[_Z[Z^^X
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+HWI-EAS443:3:11:1442:1682#0/1
aa`aabab_Na^a_PQV]a_`_`aZ_WW___¥]`¥_^_^_
@HWI-EAS443:3:11:1451:1829#0/1
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+HWI-EAS443:3:11:1451:1829#0/1
^¥ZTXT]¥Y¥ZTXVHTZ`XZVZZO_¥XSTZ_XDKZ^]]BB
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+HWI-EAS443:3:11:1655:218#0/1
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+HWI-EAS443:3:11:186:603#0/1
aa`bb`[a`babbb`aabba`a]aaaa_Za_]a_^aW¥aa
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+HWI-EAS443:3:12:1099:722#0/1
aaaaaa_ba_a]VY[___]N]`__^Z¥_XDVSLOWJW^BBB
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+HWI-EAS443:3:12:332:758#0/1
aaXS` `RTSSLXWa_`[_ZRV[VZN__NMMURJRUBBBB
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+HWI-EAS443:3:12:620:41#0/1
abaababaaaZa_aaaaaa^`¥[_`_aaS¥_]`_`_¥U^^
@HWI-EAS443:3:13:1522:1473#0/1
TGGTAGTAGCCATTTGTCTGTGAGACCGATGCTGTGAATC
+HWI-EAS443:3:13:1522:1473#0/1
^`_`aaa`]aaaa]_aaa]]`¥¥`¥FZa`SX][a]a_[_0
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CAGGCATGAAAACAGAATGGTGCTGGCTAGCACTACGGCA
+HWI-EAS443:3:13:1702:496#0/1
[_`a^^`]]RZbbaa`]VHVaabV]¥FRM¥]TXRPU
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+HWI-EAS443:3:13:810:1387#0/1
abb`aabbaaab]`_]_SUA_X__`X]aa_^_]`_`____
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+HWI-EAS443:3:14:1343:1463#0/1
J¥`_`X[`a^Z[T^W`[ZZRb_Y_W_a`aaQ¥]^_TS`H`
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+HWI-EAS443:3:16:1577:1351#0/1
a`_`ba_a`b`b^_aUZaa]a`^Z¥aaa_a^]`^Z_a`_a¥V
@HWI-EAS443:3:16:159:549#0/1
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+HWI-EAS443:3:16:159:549#0/1
aaaaaaaa]G_`_`aa_^¥``[^¥_^]`_]U¥^aZ^¥U¥YYB
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+HWI-EAS443:3:16:80:1685#0/1
abba`_`[aaab`_`a^abaaa`^a`_`_¥a]`a^`_`¥[_`¥`^
@HWI-EAS443:3:16:925:117#0/1
CAAATGGCTACTACCACCAATCCACTAATCAGGCATGAAA
+HWI-EAS443:3:16:925:117#0/1
`aabbab`_`Y¥]_aaa_`X¥][aPW]]][aXUaa[S^`P`]
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+HWI-EAS443:3:17:1253:1481#0/1
`_]`aaaaa`_`TaaXaU]a^__`a¥X`^^]a_`_`]_aYY_
@HWI-EAS443:3:17:1402:1287#0/1
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+HWI-EAS443:3:17:1402:1287#0/1
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@HWI-EAS443:3:17:1412:1239#0/1
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+HWI-EAS443:3:17:1412:1239#0/1
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@HWI-EAS443:3:17:228:2000#0/1
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+HWI-EAS443:3:17:228:2000#0/1
ab^aa¥b`Ua_b`K_aaHY__^X^^[_a`]_]WX_]SZ_
@HWI-EAS443:3:17:647:163#0/1
GGTGGTAGCCATTTGTCTGTGAGACCGATGCTGTGAA
+HWI-EAS443:3:17:647:163#0/1
aa_a`G¥aV`_`_U_aa^U^U`]_Z]Y]_UXY[UW[RRZ_
@HWI-EAS443:3:17:772:125#0/1
GCCTAGTCTGATTAGCAACCTCCATGGCCTCTGCTGCCTG
+HWI-EAS443:3:17:772:125#0/1
aa]]Y^`a`VJWW]]_[[^ZUXRTZ_Z[^PSSZSV^WWWS
@HWI-EAS443:3:18:1679:1517#0/1
GCCTAGTCTGATTAGCAACCTCCATGGCCTCTGCTGCCTG
+HWI-EAS443:3:18:1679:1517#0/1
Z¥RRRO]X``¥W_[__OTU[a]X^[Q^[^UQ[RQ^VLJYW
@HWI-EAS443:3:18:466:239#0/1
ACAGAATGGTGCTGGCTAGCACTACGGCAAAGGCTATGGA
+HWI-EAS443:3:18:466:239#0/1
`b``aX¥ZXS[`Wa^a]Z]SZTYWH^WYaQ`YZPZQS`BB
@HWI-EAS443:3:18:472:640#0/1
ACAGAATGGTGCTGGCTAGCACTACGGCAAAGGCTATGGA
+HWI-EAS443:3:18:472:640#0/1
aaaaaaaa_L^]_Z__`^Y^``WTVZ`X[_]¥¥Z_]BBBB
@HWI-EAS443:3:18:589:1288#0/1
AACAGAATGGTGCTGGCTAGCACTACGGCAAAGGCTATGG
+HWI-EAS443:3:18:589:1288#0/1
`T_]`X_Y^]]_^aaa_Z_YbX_UMYT``a`_¥_^XZRK
@HWI-EAS443:3:19:1733:1276#0/1
AGTAGCCATTTGTCTGTGAGACCGATGCTGTGAATCAGCA
+HWI-EAS443:3:19:1733:1276#0/1
]_V`_¥U^a`aQ]T_aX]X]^W[`Y¥^VUVT_PYZON`GB
@HWI-EAS443:3:19:194:1073#0/1
AGTAGCCATTTGTCTGTGAGACCGATGCTGTGAATCAGCA
+HWI-EAS443:3:19:194:1073#0/1
a`]]][aaa``_a^`__V__^_]_]_^``[[_]`^X_^^
@HWI-EAS443:3:19:455:1323#0/1
AAACAGAATGGTGCTGGCTAGCACTACGGCAAAGGCTATG
+HWI-EAS443:3:19:455:1323#0/1
aaa`aa_a¥`_W^Z^___¥`^¥¥¥¥^YW¥U¥¥QWZUUVB
@HWI-EAS443:3:19:704:884#0/1
CTGATTAGCAACCTCCATGGCCTCTGCTGCCTGTTCACTC
+HWI-EAS443:3:19:704:884#0/1
ab`[_]bba¥`_abbaa_]`¥a`_^¥¥aa]__XaaaaUX
@HWI-EAS443:3:1:1065:1039#0/1
TGCCTGATTAGTGGATTGGTGGTAGTAGCCATTTGTCTGT

+HWI-EAS443:3:1:1065:1039#0/1
`a_[ab`aa`]^a`__a_aSaWFLZN[NLLBBBBBBBBBBB
@HWI-EAS443:3:1:569:521#0/1
AAAACAGAATGGTGCTGGCTAGCACTACGGCAAAGGCTAT
+HWI-EAS443:3:1:569:521#0/1
aaa`^aa_a_`_]aX`a`a_]_W`V`]X_]__X^BB
@HWI-EAS443:3:1:843:894#0/1
AACAGATTGCTGATTCACAGCATCGGTCTCACAGACAAAT
+HWI-EAS443:3:1:843:894#0/1
ab_a`^`aaa`abaa_^a^aa0`a_a`]Ya^`^`^0__BB
@HWI-EAS443:3:20:1370:20#0/1
TGCCTAGTCTGATTAGCAACCTCCATGGCCTCTGCTGCCT
+HWI-EAS443:3:20:1370:20#0/1
a`^^`¥`_`ba_a_`^a`[[a¥V`_^X^OXQT_¥¥¥STZ
@HWI-EAS443:3:20:1430:169#0/1
AGCCATTTGTCTGTGAGACCGATGCTGTGAATCAGCAATC
+HWI-EAS443:3:20:1430:169#0/1
a`^TRN[a[a`]b`a_¥^VT]Y¥]P]¥Y`Z]OJVVG[]^Q
@HWI-EAS443:3:20:758:1312#0/1
ACAGAATGGTGCTGGCTAGCACTACGGCAAAGGCTATGGA
+HWI-EAS443:3:20:758:1312#0/1
]b`]a]aaaYaaW`a`XW_HZ`Za^a`a]a_^TZ_^RYU
@HWI-EAS443:3:21:1004:1333#0/1
CTCACAGACAAATGGCTACTACCACCAATCCACTAATCAG
+HWI-EAS443:3:21:1004:1333#0/1
aa`ba`aababa`^aaabQ`_Xa_X`_`__^`_`^`^¥_]`
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AAAACAGAATGGTGCTGGCTAGCACTACGGCAAAGGCTAT
+HWI-EAS443:3:21:1396:356#0/1
aaaaaabaa`^`Ua_aa^S`_`X[PX_¥L`P¥][^][UZZ^
@HWI-EAS443:3:21:527:253#0/1
AGTAGCCATTTGTCTGTGAGACCGATGCTGTGAATCAGCA
+HWI-EAS443:3:21:527:253#0/1
a^Ua[Z]__a^aI[^_P_[_^^`_Z]^^^W_YV^W¥^WV
@HWI-EAS443:3:21:606:257#0/1
AACAGAATGGTGCTGGCTAGCACTACGGCAAAGGCTATGG
+HWI-EAS443:3:21:606:257#0/1
aaaaa`aaaaW__`aa^`_`^]__^Z`^Z¥¥¥_WZ[WUW^
@HWI-EAS443:3:22:1699:959#0/1
ACAGATTGCTGATTCACAGCATCGGTCTCACAGACAAATG
+HWI-EAS443:3:22:1699:959#0/1
aa`TDRYa¥b_N_[_]a¥OR¥R]aYW]R[L¥PVB BBBB
@HWI-EAS443:3:22:195:275#0/1
CATCTGTTCCATAGCCTTTGCCGTAGTGCTAGCCAGCACC
+HWI-EAS443:3:22:195:275#0/1
a__aa`bbb]¥aX`bb^bba]_Q^aa`[_]_^]_____X_
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GATTAGCAACCTCCATGGCCTCTGCTGCCTGTTCACTCGA
+HWI-EAS443:3:22:19:504#0/1
aa_]`abaaaa`a_a_aa_a`a`_¥___a¥___a`_`^`

@HWI-EAS443:3:22:780:429#0/1
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+HWI-EAS443:3:22:780:429#0/1
aaa¥`a_U`Xaaa`b`_`_0_Xa_MQ[DU__V_`XX_Q]
@HWI-EAS443:3:23:1264:263#0/1
GTAGCCATTTGTCTGTGAGACCGATGCTGTGAATCAGCAA
+HWI-EAS443:3:23:1264:263#0/1
a]aaaaaa`aa]]aaXa`_]_a`Z`]ZS]Q_UZZU¥_VV^
@HWI-EAS443:3:23:1788:1060#0/1
GATTGGTGGTAGTAGCCATTTGTCTGTGAGACCGATGCTG
+HWI-EAS443:3:23:1788:1060#0/1
abaabb_aa[a`L^UL¥_aaaa¥LXPW[Q_Q][MHWZSHX
@HWI-EAS443:3:23:217:853#0/1
TGCTGGCTAGCACTACGGCAAAGGCTATGGAACAGATGGC
+HWI-EAS443:3:23:217:853#0/1
aaaa`a^``_aa^^^_a_aX__aaZX_V_¥MV¥SNSNQXV
@HWI-EAS443:3:23:913:944#0/1
AGCCATTTGTCTGTGAGACCGATGCTGTGAATCAGCAATC
+HWI-EAS443:3:23:913:944#0/1
aS__aYY_aY_]`Y]``_]^^]YY^][MP__¥]¥^]__V^
@HWI-EAS443:3:24:1106:1524#0/1
ACAGACAAATGGCTACTACCACCAATCCACTAATCAGGCA
+HWI-EAS443:3:24:1106:1524#0/1
abbab_¥bbaaab]^R`_U[^U]^`_a¥a^^`a[X^`XXa
@HWI-EAS443:3:24:1428:1785#0/1
CTGCCTAGTCTGATTAGCAACCTCCATGGCCTCTGCTGCC
+HWI-EAS443:3:24:1428:1785#0/1
T^_W¥_¥`bXab[[_bba_^¥W]`b`a^V_]aaZ]a`¥
@HWI-EAS443:3:24:1496:27#0/1
CAGGCATGAAAACAGAATGGTGGCTAGCACTACGGCA
+HWI-EAS443:3:24:1496:27#0/1
ab`bb_bbUbbbabbbba_bSbbb_bbbZ_TaaY`HQa
@HWI-EAS443:3:24:43:459#0/1
AGCCTTTGCCGTAGTGTAGCCAGCACCATTCTGTTTTCA
+HWI-EAS443:3:24:43:459#0/1
aaaabb`])`a`Xb_T¥aaaa`a````a_```_a_a[_a¥OD
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TTTGTCTGTGAGACCGATGCTGTGAATCAGCAATCTGTTC
+HWI-EAS443:3:25:1022:946#0/1
aaaa`^aaW````_a__^^^]^^_^V_^_^^]¥ZS¥W
@HWI-EAS443:3:25:756:667#0/1
TAGCCATTTGTCTGTGAGACCGATGCTGTGAATCAGCAAT
+HWI-EAS443:3:25:756:667#0/1
abbbabbabaababa]_`bbabaaba_b_bbaa`_]`^a[`
@HWI-EAS443:3:25:770:1338#0/1
CAGAATGGTGGCTAGCACTACGGCAAAGGCTATGGAA
+HWI-EAS443:3:25:770:1338#0/1
YOTZ¥Ub]^`[KaV]^_Z0baabYY^aVa¥RQ_bb^I_^b
@HWI-EAS443:3:26:1443:930#0/1
GAACAGATTGCTGATTACAGCATCGGTCTCACAGACAAA

+HWI-EAS443:3:26:1443:930#0/1
aaaYbaa¥ba`aa`a`abT_aYaa^a`_]_a_`[aaaW[`]
@HWI-EAS443:3:26:200:281#0/1
GAAAACAGAATGGTGCTGGCTAGCACTACGGCAAAGGCTA
+HWI-EAS443:3:26:200:281#0/1
aaaaa`_]U`aaaTa```_a`````ZZ_^VSW[_¥[¥UZ¥
@HWI-EAS443:3:26:261:347#0/1
GAACAGATTGCTGATTACAGCATCGGTCTCACAGACAAA
+HWI-EAS443:3:26:261:347#0/1
^`_]`S`bba`¥Z_]_a_¥VW^W_Z]L`]QUa][```Y[
@HWI-EAS443:3:27:1122:530#0/1
GATTGGTGGTAGCCATTTGTCTGTGAGACCGATGCTG
+HWI-EAS443:3:27:1122:530#0/1
`[[`_aY`_N[QLQSDMS¥aYMQVBBBBBBBBBBBBBBB
@HWI-EAS443:3:27:139:2042#0/1
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+HWI-EAS443:3:27:139:2042#0/1
abbbbbb]bbbabbbbbbbbaVabbbbb^b^bb[_bbY`bb
@HWI-EAS443:3:27:1432:601#0/1
GATTAGCAACCTCCATGGCCTCTGCTGCCTGTTCACCTCGA
+HWI-EAS443:3:27:1432:601#0/1
`aaabaabbaa_``aa_aT_aa^````_`````V__aU_Va_
@HWI-EAS443:3:27:1434:678#0/1
TGCTGATTACAGCATCGGTCTCACAGACAAATGGCTACT
+HWI-EAS443:3:27:1434:678#0/1
a``abbbbaaaaaaaaa`a`¥^`¥]`a`````_`_¥S_]NY
@HWI-EAS443:3:27:1551:1614#0/1
TGCCTGATTAGTGGATTGGTGGTAGTAGCCATTTGTCTGT
+HWI-EAS443:3:27:1551:1614#0/1
a_a`ababbab^a``a`aaZa`NQTGXOFYWX^BBBBBBB
@HWI-EAS443:3:27:567:1578#0/1
ATGAAAACAGAATGGTGCTGGCTAGCACTACGGCAAAGGC
+HWI-EAS443:3:27:567:1578#0/1
aaa__[_`]¥``_XWU[_¥¥]`¥_VQ¥¥T[[T¥¥USWWU
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AACAGATTGCTGATTACAGCATCGGTCTCACAGACAAAT
+HWI-EAS443:3:27:692:1663#0/1
a`aa`aa`_aa`_a`a_____^_]Ua¥^]XXN]G^__R
@HWI-EAS443:3:28:1033:296#0/1
CTGCCTAGTCTGATTAGCAACCTCCATGGCCTCTGCTGCC
+HWI-EAS443:3:28:1033:296#0/1
`^bab¥^_abbbabaa]`ba`_aa]^a`aS`aYbaZ`a`V
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+HWI-EAS443:3:28:1101:130#0/1
a_b`a`b^`Za]a`aaaa[`Qa`Z_¥[`_¥a]N_¥¥I_N
@HWI-EAS443:3:28:1185:1449#0/1
GAATGGTGGCTAGCACTACGGCAAAGGCTATGGAACA
+HWI-EAS443:3:28:1185:1449#0/1
abbaabT]_aba``aa`aaaa^aa]aa`aa`^`_a`^^G_

@HWI-EAS443:3:28:1237:1593#0/1
AGCCATTTGTCTGTGAGACCGATGCTGTGAATCAGCAATC
+HWI-EAS443:3:28:1237:1593#0/1
aa`^^aaa`_ba]¥aaXaa`a`¥[Y[a[a_`_`_]`S_a][
@HWI-EAS443:3:28:1318:1869#0/1
CAGAGGCCATGGAGGTTGCTAATCAGACTAGGCAGATGGT
+HWI-EAS443:3:28:1318:1869#0/1
abaaaaaa_ab]TZaQ_____`ZYZ_YWVZWZ¥__SU_XG
@HWI-EAS443:3:28:1337:938#0/1
GTCTGATTAGCAACCTCCATGGCCTCTGCTGCCTGTTTAC
+HWI-EAS443:3:28:1337:938#0/1
aaaaaZbXaaba_aaaa^a]^a^`V_]_`Z]_`a__U_^
@HWI-EAS443:3:28:1406:1784#0/1
TCTGCCTAGTCTGATTAGCAACCTCCATGGCCTCTGCTGC
+HWI-EAS443:3:28:1406:1784#0/1
^_¥_```^`_`_]¥RZaa_`^Z_a`````^Z`_¥]XYUZP
@HWI-EAS443:3:28:147:208#0/1
GCCTAGTCTGATTAGCAACCTCCATGGCCTCTGCTGCCTG
+HWI-EAS443:3:28:147:208#0/1
aabaaa_babaaab`^aaa^aaa`_`_`^`_]`````^__
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CTGCCTAGTCTGATTAGCAACCTCCATGGCCTCTGCTGCC
+HWI-EAS443:3:28:835:333#0/1
aa`]aab`]`ababaaaab`]`^aaa`a`_¥_`^_aZ[^^^
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+HWI-EAS443:3:29:1013:1657#0/1
a[bbaaaaa`ab_bbaa^K¥aa^aa_a`GaV_a_a^_a_`
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+HWI-EAS443:3:29:1580:1085#0/1
a`abRYb[`_aa^^a^a_aY^_b¥a`]X`^PU_`WOa[BB
@HWI-EAS443:3:29:458:34#0/1
GGTGGTAGCCATTTGTCTGTGAGACCGATGCTGTGAA
+HWI-EAS443:3:29:458:34#0/1
ab`aaR]ZD[`aaa_`aVXUX_UYUV^YZYPL_ZW^R^BB
@HWI-EAS443:3:29:902:495#0/1
GTGCTGGCTAGCACTACGGCAAAGGCTATGGAACAGATGG
+HWI-EAS443:3:29:902:495#0/1
a¥a[a¥a`_a`T]^`^]XT]IDX^Z`^¥¥PS¥W`S`USP^B
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CAGCATCGGTCTCACAGACAAATGGCTACTACCAATC
+HWI-EAS443:3:29:920:44#0/1
abbbababb]aa`_a¥MXN¥`^¥a_Y^_UXXOV¥RG__BB
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+HWI-EAS443:3:2:1342:2009#0/1
a`a^a_a`abaX`^VIV__a`a_¥H`¥`XQ_XLPBBBBBB
@HWI-EAS443:3:2:1396:1068#0/1
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+HWI-EAS443:3:2:1396:1068#0/1
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AGCCTTTGCCGTAGTGCTAGCCAGCACCATTCTGTTTTCA
+HWI-EAS443:3:2:360:312#0/1
aabaabba_]_PY`[_`__aY`_[R__¥^_a`]aX]a]_]_
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+HWI-EAS443:3:30:1096:506#0/1
aa_aaaa_`_Za]U__aa`__`_]_W[^`_¥__[^¥^WW^
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CTACCACCAATCCACTAATCAGGCATGAAAACAGAATGGT
+HWI-EAS443:3:30:1295:1240#0/1
a`bb^bbb`aa`aab_^bbYaYb_bbaaa`ba_`__NFQ
@HWI-EAS443:3:30:1435:1382#0/1
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+HWI-EAS443:3:30:1435:1382#0/1
]_[a`GW^U`_^¥a][[PNSSVF[YQZ[Y¥V]]YNJURZV
@HWI-EAS443:3:30:479:1461#0/1
AGCCATTTGTCTGTGAGACCGATGCTGTGAATCAGCAATC
+HWI-EAS443:3:30:479:1461#0/1
[V]`aaa_aZa¥`U[^Yaaa_Z^`WZW^__[_]_^_¥^
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CTGCCTAGTCTGATTAGCAACCTCCATGGCCTCTGCTGCC
+HWI-EAS443:3:30:529:56#0/1
abbbababaabbaaab`__^aaa_a`a_]__`_`[[¥W^
@HWI-EAS443:3:30:775:1332#0/1
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+HWI-EAS443:3:30:775:1332#0/1
`aa`baa_aab_`_Uaa_a`__[^Xa]_____``]X]^UX
@HWI-EAS443:3:31:1102:430#0/1
GTAGCCATTTGTCTGTGAGACCGATGCTGTGAATCAGCAA
+HWI-EAS443:3:31:1102:430#0/1
aab]baab[``V`ab]a]a^Pab[YQ^aaVa_```a]]a]
@HWI-EAS443:3:32:1666:1726#0/1
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+HWI-EAS443:3:32:1666:1726#0/1
X¥aa]ba^_bbaaa_¥bba`a__^STa¥`_Y¥YNXBBBBB
@HWI-EAS443:3:32:710:1331#0/1
ATTGCTGATTCACAGCATCGGTCTCACAGACAAATGGCTA
+HWI-EAS443:3:32:710:1331#0/1
a``_a`a]^]aa_a__`_____X^¥^^¥¥V[^_]_]XWUX¥
@HWI-EAS443:3:32:813:1096#0/1
ACAGAATGGTGGCTAGCACTACGGCAAAGGCTATGGA
+HWI-EAS443:3:32:813:1096#0/1
[bb]¥^]b]Mabaaaaaaaaa`_`a`_UXa^¥]R]O]]O
@HWI-EAS443:3:33:188:1141#0/1
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+HWI-EAS443:3:33:188:1141#0/1
`a^b[Zb`aa`aa`U¥a__Z__[_``Z_¥__W^W^Z^¥__

@HWI-EAS443:3:33:225:1774#0/1
GAACAGATTGCTGATTCACAGCATCGGTCTCACAGACAAA
+HWI-EAS443:3:33:225:1774#0/1
abbbaaba`_baaaaabbbb_aaaa`^^a_aaX`_a_`Z`
@HWI-EAS443:3:33:823:286#0/1
GCCTAGTCTGATTAGCAACCTCCATGGCCTCTGCTGCCTG
+HWI-EAS443:3:33:823:286#0/1
_]`^a`P_aa`]Yaaaaa]_^^`a`UaYVUVQWYTSUY
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+HWI-EAS443:3:34:1782:237#0/1
_a`Xa`^ab_W¥¥a[aaYaXS____bM]bZ[`YZ]ZYBBBB
@HWI-EAS443:3:34:210:629#0/1
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+HWI-EAS443:3:34:210:629#0/1
^W`Z]a¥`aa[aaa`aab`X_a_aaa`__`^¥¥^_^
@HWI-EAS443:3:34:255:1780#0/1
AGTCTGATTAGCAACCTCCATGGCCTCTGCTGCCTGTTCA
+HWI-EAS443:3:34:255:1780#0/1
a^Xba`aa`a_bbbbbabaaaN[aa___Za_Q_b_UVWV_
@HWI-EAS443:3:34:411:340#0/1
ACAGATTGCTGATTCACAGCATCGGTCTCACAGACAAATG
+HWI-EAS443:3:34:411:340#0/1
aaaaaaabaaaa]_`a_aaaa`_aV`_^X^_Z_VW^ZBB
@HWI-EAS443:3:34:830:1155#0/1
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+HWI-EAS443:3:34:830:1155#0/1
aaaaaaa`_a`a`_a]aaa`a`^a_¥__aa_]¥^_WVWW
@HWI-EAS443:3:35:1499:1048#0/1
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+HWI-EAS443:3:35:1499:1048#0/1
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@HWI-EAS443:3:35:1555:363#0/1
GATTGGTGGTAGTAGCCATTTGTCTGTGAGACCGATGCTG
+HWI-EAS443:3:35:1555:363#0/1
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@HWI-EAS443:3:35:1594:358#0/1
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+HWI-EAS443:3:35:1594:358#0/1
a`aaZX`SRa`aaZ`Y]^a__a_RFR_N_a__aU_¥_^Y_
@HWI-EAS443:3:35:387:1883#0/1
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+HWI-EAS443:3:35:387:1883#0/1
a^`TJ¥^`a¥^¥XT[W^[]VXM][¥U[H^T[YYZ]¥JPY
@HWI-EAS443:3:35:562:828#0/1
ATCTGCCTAGTCTGATTAGCAACCTCCATGGCCTCTGCTG
+HWI-EAS443:3:35:562:828#0/1
[WT]]^¥_TXW```]_URMW`XUa]Z¥PXVRadW¥^^^RS
@HWI-EAS443:3:35:607:622#0/1
GTGGTAGTAGCCATTTGTCTGTGAGACCGATGCTGTGAAT

+HWI-EAS443:3:35:607:622#0/1
a_]_[a_XXP]`Q¥XNR¥WLVXVM^SMSWTZW_UBBBB
@HWI-EAS443:3:35:679:143#0/1
GTGGTAGTAGCCATTTGTCTGTGAGACCGATGCTGTGAAT
+HWI-EAS443:3:35:679:143#0/1
a_`U`P]XV_QY[^SWXX_URPNWMRNNTYWVTBBBBB
@HWI-EAS443:3:35:793:652#0/1
GCCTAGTCTGATTAGCAACCTCCATGGCCTCTGCTGCCTG
+HWI-EAS443:3:35:793:652#0/1
ababba_abaaa`^Zbab_aaaaaaaaa_a_a_aa_Y_^^`
@HWI-EAS443:3:36:1198:1297#0/1
GAAAACAGAATGGTGCTGGCTAGCACTACGGCAAAGGCTA
+HWI-EAS443:3:36:1198:1297#0/1
a`Ua]a_aaaa`¥`a`a`_a`_`^`_`_`W¥^[Y¥Z¥V
@HWI-EAS443:3:36:1236:1217#0/1
CTTTGCCGTAGTGCTAGCCAGCACCATTCTGTTTTTCATGC
+HWI-EAS443:3:36:1236:1217#0/1
[aa^aZbWK[`[` _`aa_SW^` `¥X`T`¥XXX` []^`R¥
@HWI-EAS443:3:36:1507:732#0/1
CAGAATGGTGCTGGCTAGCACTACGGCAAAGGCTATGGAA
+HWI-EAS443:3:36:1507:732#0/1
abb`bbbbabbba^abbbbaabaaaba` ``a___aaaaRZ
@HWI-EAS443:3:36:72:1704#0/1
GATTAGCAACCTCCATGGCCTCTGCTGCCTGTTCACTCGA
+HWI-EAS443:3:36:72:1704#0/1
_¥`a_aa^`abaaba^]X_aa`]^a[Xaaa`^^a[`[bXI
@HWI-EAS443:3:36:915:913#0/1
CAGCATCGGTCTCACAGACAAATGGCTACTACCACCAATC
+HWI-EAS443:3:36:915:913#0/1
abbbbabb`_a_aaa` `` `` `^`_`_`a` [TXUG`¥^SH_HV
@HWI-EAS443:3:37:1155:656#0/1
GTGCTGGCTAGCACTACGGCAAAGGCTATGGAACAGATGG
+HWI-EAS443:3:37:1155:656#0/1
a_a^abaa^ba^a`_¥^^`¥` [[^aa^YPF`S]¥^¥YSVT
@HWI-EAS443:3:37:270:906#0/1
GTAGTAGCCATTTGTCTGTGAGACCGATGCTGTGAATCAG
+HWI-EAS443:3:37:270:906#0/1
a]SRabaa[RQ]^WE^[S]`]aaBBBBBBBBBBBBBBBBB
@HWI-EAS443:3:37:585:560#0/1
TAGCCATTTGTCTGTGAGACCGATGCTGTGAATCAGCAAT
+HWI-EAS443:3:37:585:560#0/1
abaaaa`aaa_a`a`_aaa^aaa`aa__X^Ha^a`a`a`_`
@HWI-EAS443:3:38:1142:504#0/1
TAGCCAGCACCATTCTGTTTTTCATGCCTGATTAGTGGATT
+HWI-EAS443:3:38:1142:504#0/1
abaaaabaa`Z` `a_b`aaa`_`a`a`aXX`^aZ`aZ]Z
@HWI-EAS443:3:38:166:476#0/1
GAATGGTGCTGGCTAGCACTACGGCAAAGGCTATGGAACA
+HWI-EAS443:3:38:166:476#0/1
a_]Y]Q`a^X^a`W`]^^U[V^^^BBBBBBBBBBBBBBBBB

@HWI-EAS443:3:38:291:113#0/1
GTGGATTGGTGGTAGTAGCCATTTGTCTGTGAGACCGATG
+HWI-EAS443:3:38:291:113#0/1
a`aaaa`aaXa`M[TM¥LU^UP^BBBBBBBBBBBBBBBB
@HWI-EAS443:3:38:476:471#0/1
GATTCACAGCATCGGTCTCACAGACAAATGGCTACTACCA
+HWI-EAS443:3:38:476:471#0/1
aba`^`__`aaa`_aa¥`__^Y`_^TYZZ]^TYVVS[P
@HWI-EAS443:3:38:818:1416#0/1
GATTGGTGGTAGTAGCCATTTGTCTGTGAGACCGATGCTG
+HWI-EAS443:3:38:818:1416#0/1
¥`a`a^`XVZWS[RW_[^]WFWZWBBBBBBBBBBBBBBB
@HWI-EAS443:3:39:1169:1770#0/1
GATTAGCAACCTCCATGGCCTCTGCTGCCTGTCTACTCGA
+HWI-EAS443:3:39:1169:1770#0/1
aababa`bbb^`__aa¥X¥aaaaaa]`a_TT_Y`¥_[`Z
@HWI-EAS443:3:39:1405:1373#0/1
TGGTGGTAGTAGCCATTTGTCTGTGAGACCGATGCTGTGA
+HWI-EAS443:3:39:1405:1373#0/1
`_`^b_[__[_^ZU`^YTY`¥PZ¥VWR`¥UZ[_¥YNUZ
@HWI-EAS443:3:39:1696:527#0/1
ATCTGCCTAGTCTGATTAGCAACCTCCATGGCCTCTGCTG
+HWI-EAS443:3:39:1696:527#0/1
abbabaaba`¥¥a]ab`aa_^a]UaaY]¥aUGS_a^^_VV
@HWI-EAS443:3:39:190:2026#0/1
GAAAACAGAATGGTGGCTGGCTAGCACTACGGCAAAGGCTA
+HWI-EAS443:3:39:190:2026#0/1
a]``aa]_]¥^]_¥a`¥U¥_VaZ__aXPUQRFY[^Z¥_VB
@HWI-EAS443:3:39:233:455#0/1
CAGGCATGAAAACAGAATGGTGGCTGGCTAGCACTACGGCA
+HWI-EAS443:3:39:233:455#0/1
a[``_]`^a_a¥_[`a_a_[aQ]a_`a_____`^¥[XQ_¥¥W
@HWI-EAS443:3:39:759:299#0/1
CACAGACAAATGGCTACTACCACCAATCCACTAATCAGGC
+HWI-EAS443:3:39:759:299#0/1
^]aa``ba¥KT^^a[_ZZZ_Y^0¥^ZFRTLZSUVVLXZBB
@HWI-EAS443:3:3:1233:1347#0/1
AGCATCGGTCTCACAGACAAATGGCTACTACCACCAATCC
+HWI-EAS443:3:3:1233:1347#0/1
a^]`_`_ab`Ua`aYa_aaaaa`_^W_WMY]S]^ZU¥][YB
@HWI-EAS443:3:3:161:896#0/1
ATGCCTGATTAGTGGATTGGTGGTAGTAGCCATTTGTCTG
+HWI-EAS443:3:3:161:896#0/1
a¥a]`_]V_aaa¥aaU`_aaPaBBBBBBBBBBBBBBBBBBB
@HWI-EAS443:3:3:236:186#0/1
AGTAGCCATTTGTCTGTGAGACCGATGCTGTGAATCAGCA
+HWI-EAS443:3:3:236:186#0/1
aa_b_X^WaaaaZ^_a¥a^^^Z^_^]XZ^`V_^_[P[^UZ
@HWI-EAS443:3:3:524:124#0/1
AGCCATTTGTCTGTGAGACCGATGCTGTGAATCAGCAATC

+HWI-EAS443:3:3:524:124#0/1
aa`aaa`aa`aa^a^a`__^__^__^__^XV^^U^^]V
@HWI-EAS443:3:3:555:235#0/1
ATGGTGTGCTAGCACTACGGCAAAGGCTATGGAACAGA
+HWI-EAS443:3:3:555:235#0/1
aaaa¥aa_bba^`aS_Va]V_`U_]aS_^_]_Z¥VZSU
@HWI-EAS443:3:3:858:282#0/1
CAATCCACTAATCAGGCATGAAAACAGAATGGTGTGCTGGCT
+HWI-EAS443:3:3:858:282#0/1
¥Y¥Z¥UT`Yb__U_^`ba]`_]a_bb`baU_`Y¥b_XV
@HWI-EAS443:3:40:1161:566#0/1
GTAGCCATTTGTCTGTGAGACCGATGCTGTGAATCAGCAA
+HWI-EAS443:3:40:1161:566#0/1
]J¥¥U_PY`YZY]L]QSQ[^¥Z¥UR[[RWVZUQOONULMN
@HWI-EAS443:3:40:1176:743#0/1
TGCCTGATTAGTGGATTGGTGGTAGTAGCCATTTGTCTGT
+HWI-EAS443:3:40:1176:743#0/1
a^b^a`]a_X^Ybaaab`ZBBBBBBBBBBBBBBBBBBBB
@HWI-EAS443:3:40:1204:1548#0/1
CATTTGTCTGTGAGACCGATGCTGTGAATCAGCAATCTGT
+HWI-EAS443:3:40:1204:1548#0/1
`bbbWaa_]_`S^Y]ab`YX_`^b`[W_]^[^__aa`a`[]
@HWI-EAS443:3:40:438:1109#0/1
CATGAAAACAGAATGGTGTGCTAGCACTACGGCAAAGG
+HWI-EAS443:3:40:438:1109#0/1
a_b]`¥babababa`a_`a`aaaa]aaa`a_a_aaaa¥^
@HWI-EAS443:3:40:702:1144#0/1
TGCCTGATTAGTGGATTGGTGGTAGTAGCCATTTGTCTGT
+HWI-EAS443:3:40:702:1144#0/1
aa^bab_abaaZ``a`aaaWaYLWBBBBBBBBBBBBBBBB
@HWI-EAS443:3:42:1331:516#0/1
GCTGATTCACAGCATCGGTCTCACAGACAAATGGCTACTA
+HWI-EAS443:3:42:1331:516#0/1
ababaabab`baaaaab`__a^aS]aa[a_`_`aZ`a¥V¥
@HWI-EAS443:3:42:136:721#0/1
GAACAGATTGCTGATTCACAGCATCGGTCTCACAGACAAA
+HWI-EAS443:3:42:136:721#0/1
Z_V_a__abbb_`XZZabbababaaaa^_]_a]___¥R_U
@HWI-EAS443:3:42:1554:703#0/1
GCCTGATTAGTGGATTGGTGGTAGTAGCCATTTGTCTGTG
+HWI-EAS443:3:42:1554:703#0/1
abaabaabab_baaaa`^a`HYLJ]RBBBBBBBBBBBBBB
@HWI-EAS443:3:42:1639:1566#0/1
TGAAAACAGAATGGTGTGCTAGCACTACGGCAAAGGCT
+HWI-EAS443:3:42:1639:1566#0/1
Uaa_XZ]S[^_] ^VMZZU]S]Y_WKWS¥XOV]¥U¥S_^VU
@HWI-EAS443:3:42:1672:335#0/1
ATTTGTCTGTGAGACCGATGCTGTGAATCAGCAATCTGTT
+HWI-EAS443:3:42:1672:335#0/1
abb`a`bba¥aa`_`_a`aa``a]a_`a^a`Z^^_¥__]^

@HWI-EAS443:3:42:499:114#0/1
GACAAATGGCTACTACCACCAATCCACTAATCAGGCATGA
+HWI-EAS443:3:42:499:114#0/1
abaaaa`b`aa`X]aaS_]__VY_YUU¥_RWZ`XRQVRZ
@HWI-EAS443:3:42:982:190#0/1
AGCCATTTGTCTGTGAGACCGATGCTGTGAATCAGCAATC
+HWI-EAS443:3:42:982:190#0/1
a_[P¥b_a_MUab`a]aX]]abaa]S_^b_aaN^a^aa[R
@HWI-EAS443:3:43:1306:1082#0/1
ATCCACTAATCAGGCATGAAAACAGAATGGTGCTGGCTAG
+HWI-EAS443:3:43:1306:1082#0/1
^bab_bW]_Q_aabaZ¥aa¥a`Z`b`^] ^V[]ZZT[^Y
@HWI-EAS443:3:43:1666:1541#0/1
GACAAATGGCTACTACCACCAATCCACTAATCAGGCATGA
+HWI-EAS443:3:43:1666:1541#0/1
``b`babaaaXY]^__UX[[_`U`a_ZP[_[H^^[^
@HWI-EAS443:3:43:253:223#0/1
GAACAGATTGCTGATTACAGCATCGGTCTCACAGACAAA
+HWI-EAS443:3:43:253:223#0/1
aaaabb`bbbbbaaab`_`b`_aab`^^a`Za]`Y`a^
@HWI-EAS443:3:43:648:466#0/1
GCCTAGTCTGATTAGCAACCTCCATGGCCTCTGCTGCCTG
+HWI-EAS443:3:43:648:466#0/1
a_aa]`T`ba_]`a`X]`_aba_a`aa^aa¥`]U]a
@HWI-EAS443:3:43:680:218#0/1
AGTAGCCATTTGTCTGTGAGACCGATGCTGTGAATCAGCA
+HWI-EAS443:3:43:680:218#0/1
aa__aaaaaaa`^_aaYa_¥^aaa^Z_V¥]V]^_[^^WW
@HWI-EAS443:3:43:733:1082#0/1
AGCCATTTGTCTGTGAGACCGATGCTGTGAATCAGCAATC
+HWI-EAS443:3:43:733:1082#0/1
aaaa^aaa`aaaZaaaaaa`_`aa¥a`a`^`¥`¥_¥
@HWI-EAS443:3:44:1103:1428#0/1
AGAATGGTGCTGGCTAGCACTACGGCAAAGGCTATGGAAC
+HWI-EAS443:3:44:1103:1428#0/1
aa`aba_a]_aa__a^X`_aS_^U[[¥TZU^YWO`VZU
@HWI-EAS443:3:44:1692:1095#0/1
TGCCTGATTAGTGGATTGGTGGTAGTAGCCATTTGTCTGT
+HWI-EAS443:3:44:1692:1095#0/1
aaa`a`¥aaaa¥aaY__`a¥`XUBBBBBBBBBBBBBBBB
@HWI-EAS443:3:44:409:1433#0/1
AGCCTTTGCCGTAGTCTAGCCAGCACCATTCTGTTTTCA
+HWI-EAS443:3:44:409:1433#0/1
`Za`abaaaaaaa¥aaab^`a¥N¥aaaa__^aa[S^_`¥
@HWI-EAS443:3:44:477:1416#0/1
ACCATCTGCCTAGTCTGATTAGCAACCTCCATGGCCTCTG
+HWI-EAS443:3:44:477:1416#0/1
a`a^ZT_[¥[`^W]`YY``^^_¥¥¥]¥¥]ZTST¥W¥¥W
@HWI-EAS443:3:44:83:755#0/1
AGAATGGTGCTGGCTAGCACTACGGCAAAGGCTATGGAAC

+HWI-EAS443:3:44:83:755#0/1
aa^`V[N`_`aaaPX_aaa_[VSV^_[^ZZa]^ZTYS
@HWI-EAS443:3:44:872:373#0/1
TTAGCAACCTCCATGGCCTCTGCTGCCTGTTCACTCGATC
+HWI-EAS443:3:44:872:373#0/1
[`¥`¥XQ¥¥b[____]ZXUW]^aa`^UX][a][`[abXU_VY
@HWI-EAS443:3:45:1223:1736#0/1
GGTGGTAGTAGCCATTTGTCTGTGAGACCGATGCTGTGAA
+HWI-EAS443:3:45:1223:1736#0/1
ababa`b_G`____aaaabZ^`aYZZ`a]^ZXPZa__`____
@HWI-EAS443:3:45:288:925#0/1
GAACAGATTGCTGATTCACAGCATCGGTCTCACAGACAAA
+HWI-EAS443:3:45:288:925#0/1
aaaabaaaa`a[```¥`a^a`[``VU[____]`____
@HWI-EAS443:3:45:429:1617#0/1
GCAGAGGCCATGGAGTTGCTAATCAGACTAGGCAGATGG
+HWI-EAS443:3:45:429:1617#0/1
`aa`a]_____aT`R_QY][`]N_X_G^WU]]¥UU]T
@HWI-EAS443:3:45:730:1361#0/1
ATGAAAACAGAATGGTGCTGGCTAGCACTACGGCAAAGGC
+HWI-EAS443:3:45:730:1361#0/1
aa`_]b]a_Y¥]]JDUa]`aaV__¥V_[``VPU_`a[[G^
@HWI-EAS443:3:45:985:1075#0/1
CTGCCTAGTCTGATTAGCAACCTCCATGGCCTCTGCTGCC
+HWI-EAS443:3:45:985:1075#0/1
abaaaa]a`baaaa`aa`aaU`aaZa`aa^^a_^PV___¥
@HWI-EAS443:3:46:1249:552#0/1
TAGCCATTTGTCTGTGAGACCGATGCTGTGAATCAGCAAT
+HWI-EAS443:3:46:1249:552#0/1
ZabXU_U_^aWZS``_T_^Y¥Z]_a[[aQ`_UWUPa`]`X
@HWI-EAS443:3:46:1291:687#0/1
GTAGTAGCCATTTGTCTGTGAGACCGATGCTGTGAATCAG
+HWI-EAS443:3:46:1291:687#0/1
a_ba^aaa`aaa^]aaa¥a`a`a`a_^]]a_`¥`^Z¥¥
@HWI-EAS443:3:46:173:711#0/1
ACAGAATGGTGCTGGCTAGCACTACGGCAAAGGCTATGGA
+HWI-EAS443:3:46:173:711#0/1
_¥Z_KW_UZZZ¥__babbba`Z`abb^¥]^a]`WS_`W
@HWI-EAS443:3:46:253:495#0/1
TGGTAGTAGCCATTTGTCTGTGAGACCGATGCTGTGAATC
+HWI-EAS443:3:46:253:495#0/1
aaa_ba`baaaaaaa_`aa___a___`__^_¥U]U`__Z^
@HWI-EAS443:3:47:1347:1604#0/1
CTAGCCAGCACCATTTCTGTTTTTCATGCCTGATTAGTGGAT
+HWI-EAS443:3:47:1347:1604#0/1
ab]_bb]aZS^abb`]`ba`a_aa_aa`WX_]`aXa____
@HWI-EAS443:3:47:1552:119#0/1
CAGACAAATGGCTACTACCAATCCACTAATCAGGCAT
+HWI-EAS443:3:47:1552:119#0/1
a`b`bab]abbbaa^M¥U`]ZZ[[[]VYVG¥^¥YQV[^SY¥

@HWI-EAS443:3:47:1589:209#0/1
GATTGCTGATTCACAGCATCGGTCTCACAGACAAATGGCT
+HWI-EAS443:3:47:1589:209#0/1
ab`_baabaaa`a_aaaa`aa^`_]__Y`]U_Z_]^^ZX
@HWI-EAS443:3:47:1642:1171#0/1
AACAGAATGGTGGCTAGCACTACGGCAAAGGCTATGG
+HWI-EAS443:3:47:1642:1171#0/1
¥`P¥aTa]bbJ`b`bbb_b¥V^^W^^ba[I`a``W¥OXG]
@HWI-EAS443:3:47:1690:1268#0/1
CTACCACCAATCCACTAATCAGGCATGAAAACAGAATGGT
+HWI-EAS443:3:47:1690:1268#0/1
aaab¥[`aT```_aZbbaa]]aba``a_aS^Xaa_aaa¥S
@HWI-EAS443:3:47:546:1299#0/1
GACAAATGGCTACTACCACCAATCCACTAATCAGGCATGA
+HWI-EAS443:3:47:546:1299#0/1
abbaabaaba[bJZb`a`Y`]aYV_a[```a`_aY`X`_ZH
@HWI-EAS443:3:47:661:748#0/1
TAGTCTGATTAGCAACCTCCATGGCCTCTGCTGCCTGTTC
+HWI-EAS443:3:47:661:748#0/1
a`aY_aa[`````_a`¥_a`^`_`¥_¥_¥¥_¥U^TU¥¥W¥¥
@HWI-EAS443:3:47:921:2024#0/1
CAGAATGGTGGCTAGCACTACGGCAAAGGCTATGGAA
+HWI-EAS443:3:47:921:2024#0/1
aab`a`a``bbaaaa`ba]a)`aZaaVW¥_`^]Z]^a^¥^
@HWI-EAS443:3:48:1194:941#0/1
AAAACAGAATGGTGGCTAGCACTACGGCAAAGGCTAT
+HWI-EAS443:3:48:1194:941#0/1
_]XU__¥¥Z__`Z`T_a_X]__WZ[[[USR_]ZTZGOUOW
@HWI-EAS443:3:48:1436:1476#0/1
TAGCCATTTGTCTGTGAGACCGATGCTGTGAATCAGCAAT
+HWI-EAS443:3:48:1436:1476#0/1
a¥_^_aababaaab`bba`aaaaa^`]¥a```X_`S`Y`
@HWI-EAS443:3:48:1723:1269#0/1
TAGCCATTTGTCTGTGAGACCGATGCTGTGAATCAGCAAT
+HWI-EAS443:3:48:1723:1269#0/1
aab`^0_bbba_bbabaaaaaaaa`aa`b`][__a_``_
@HWI-EAS443:3:48:932:1254#0/1
TGAACAGATTGCTGATTCACAGCATCGGTCTCACAGACAA
+HWI-EAS443:3:48:932:1254#0/1
aaaaa```U^VNYLL]][_a[ZaaWZ^[FUZP`¥[WXF^^
@HWI-EAS443:3:49:1605:1094#0/1
GTGGTAGTAGCCATTTGTCTGTGAGACCGATGCTGTGAAT
+HWI-EAS443:3:49:1605:1094#0/1
aabb`b^PaaT]Y]b_0^S¥¥PZLY]¥]_PX¥U]XNMMV]
@HWI-EAS443:3:49:161:85#0/1
CAGACAAATGGCTACTACCACCAATCCACTAATCAGGCAT
+HWI-EAS443:3:49:161:85#0/1
`bbbbbbab]`bbb^b``bbabbb_¥^`[bb`aXab`__b
@HWI-EAS443:3:49:1755:1664#0/1
TGAAAACAGAATGGTGGCTAGCACTACGGCAAAGGCT

+HWI-EAS443:3:49:1755:1664#0/1
X¥^[OSa`aa_aabX_X^¥T^`_a`¥[[`U`_^¥YLY]XU
@HWI-EAS443:3:49:1776:893#0/1
AAAACAGAATGGTGGCTAGCACTACGGCAAAGGCTAT
+HWI-EAS443:3:49:1776:893#0/1
Y^[^a`¥^ab_bZ`aa]`^a¥SXXaa¥]`_a`[^`U`]¥
@HWI-EAS443:3:49:9:377#0/1
TGGTGGTAGTAGCCATTTGTCTGTGAGACCGATGCTGTGA
+HWI-EAS443:3:49:9:377#0/1
a````a^^]F[Y][YO`a_WT__[UU_ZLZVYTNO[TVYZ
@HWI-EAS443:3:4:1642:72#0/1
ATTTGTCTGTGAGACCGATGCTGTGAATCAGCAATCTGTT
+HWI-EAS443:3:4:1642:72#0/1
a]aab]I^bZaa[_U[]VPZJZ[Xa¥S`Y^^XBBBBBBBB
@HWI-EAS443:3:4:1723:851#0/1
ACAGAATGGTGGCTAGCACTACGGCAAAGGCTATGGA
+HWI-EAS443:3:4:1723:851#0/1
a`^baabab_b_a`a¥a`ZK_Qa_WaZG__Za_X_]X[BB
@HWI-EAS443:3:4:415:1949#0/1
GCTAGCCAGCACCATTCTGTTTTTCATGCCTGATTAGTGGGA
+HWI-EAS443:3:4:415:1949#0/1
aa^a_``a`_aX]_^__aaU__^^^_Y_`_^_^WY`X_
@HWI-EAS443:3:4:477:830#0/1
CTGATTAGCAACCTCCATGGCCTCTGCTGCCTGTTCACTC
+HWI-EAS443:3:4:477:830#0/1
a_baTW`bababaaaaaaaa_a`a_baZ`__^`__¥aQU`
@HWI-EAS443:3:4:553:524#0/1
ATTTGTCTGTGAGACCGATGCTGTGAATCAGCAATCTGTT
+HWI-EAS443:3:4:553:524#0/1
a]aW^R_]ZP^YQ_¥[``]`V[aaa_[]_Xa¥a_US_BBB
@HWI-EAS443:3:50:1261:1124#0/1
GACAAATGGCTACTACCACCAATCCACTAATCAGGCATGA
+HWI-EAS443:3:50:1261:1124#0/1
__a^`_a_P_SX_ZQ_YPa[S[PZSXX]]PYV`TNTRFY
@HWI-EAS443:3:50:1321:498#0/1
CACAGACAAATGGCTACTACCACCAATCCACTAATCAGGC
+HWI-EAS443:3:50:1321:498#0/1
`babbb`bbbabbbabb`b¥`_aaa¥SYa_Haaa]aaa`T
@HWI-EAS443:3:50:1607:621#0/1
TGAAAACAGAATGGTGGCTAGCACTACGGCAAAGGCT
+HWI-EAS443:3:50:1607:621#0/1
abaa_aaaa_]aaa¥b_a[a]_^_Q_S__S^`V[^V^ZR[
@HWI-EAS443:3:51:1075:831#0/1
CTAGCCAGCACCATTCTGTTTTTCATGCCTGATTAGTGGAT
+HWI-EAS443:3:51:1075:831#0/1
aba`_bb`b^ababbaababbbbaabb[bbbabb_a`b^`a
@HWI-EAS443:3:51:1248:1375#0/1
GACAAATGGCTACTACCACCAATCCACTAATCAGGCATGA
+HWI-EAS443:3:51:1248:1375#0/1
`aa`ab__a_ba¥`_`a`¥a`b`_aa_aZ]T^_a^N`Z¥`

@HWI-EAS443:3:51:1384:355#0/1
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+HWI-EAS443:3:51:1384:355#0/1
abaaaaabaa`aa_aaaaZ`a`_`aa`a`___`a_aa_¥W`
@HWI-EAS443:3:51:545:1371#0/1
TGGTAGTAGCCATTTGTCTGTGAGACCGATGCTGTGAATC
+HWI-EAS443:3:51:545:1371#0/1
]a`a`_`]¥_ORW`_ZWNGZ`][_OXZ__QTO^ZXU]]_UX
@HWI-EAS443:3:51:614:1618#0/1
GATCGAGTGAACAGGCAGCAGAGGCCATGGAGGTTGCTAA
+HWI-EAS443:3:51:614:1618#0/1
aba]_b[Taaa`aab`bb__aU_a_`__J]_ab_`SNVV`
@HWI-EAS443:3:52:1344:560#0/1
GAGTGAACAGGCAGCAGAGGCCATGGAGGTTGCTAATCAG
+HWI-EAS443:3:52:1344:560#0/1
abbaaababaa_ab^`_`ab___[P`T]`PYPDTNY[BBB
@HWI-EAS443:3:52:1537:294#0/1
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+HWI-EAS443:3:52:1537:294#0/1
aaba_abbba_`a]]YW¥Za^`W]¥_]X]X``W]aX^]`
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+HWI-EAS443:3:52:239:1174#0/1
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@HWI-EAS443:3:52:395:1690#0/1
ACCATCTGCCTAGTCTGATTAGCAACCTCCATGGCCTCTG
+HWI-EAS443:3:52:395:1690#0/1
`aa_`^aT^_a`^`^`aa__a[^]¥¥__Z_^]_VX¥^W¥¥
@HWI-EAS443:3:52:645:571#0/1
GACAAATGGCTACTACCACCAATCCACTAATCAGGCATGA
+HWI-EAS443:3:52:645:571#0/1
¥¥a¥ab`W¥aU]XN¥Z^Q_`¥`_QUX^¥a^aRR[^UT¥NV
@HWI-EAS443:3:53:880:635#0/1
TGCCGTAGTGCTAGCCAGCACCATTCTGTTTTCATGCCTG
+HWI-EAS443:3:53:880:635#0/1
aa_ab^ba¥aaaaaaaab_aa_^aa[_a_ab`_]_`a^¥a]
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CCTAGTCTGATTAGCAACCTCCATGGCCTCTGCTGCCTGT
+HWI-EAS443:3:54:1052:498#0/1
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@HWI-EAS443:3:54:1089:224#0/1
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+HWI-EAS443:3:54:1089:224#0/1
``aab_aaS^a_Va`^TY¥_Y^^¥¥VNZ_¥TLVWYW^¥W
@HWI-EAS443:3:54:1573:136#0/1
CTAGTCTGATTAGCAACCTCCATGGCCTCTGCTGCCTGTT
+HWI-EAS443:3:54:1573:136#0/1
`b_^abbbba]^R^aaba`ab¥_Qab``a``aY_[¥__
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AGCCATTTGTCTGTGAGACCGATGCTGTGAATCAGCAATC

+HWI-EAS443:3:54:1655:873#0/1
a``^`baWV^VSZWZ^_Z[_]ZZ_R¥^^a¥Q¥V]^_¥X
@HWI-EAS443:3:54:609:87#0/1
CACAGACAAATGGCTACTACCACCAATCCACTAATCAGGC
+HWI-EAS443:3:54:609:87#0/1
ababbbabaaabbab`T`XU`aV`_a]^W`¥`]__]]`_T
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GCCTAGTCTGATTAGCAACCTCCATGGCCTCTGCTGCCTG
+HWI-EAS443:3:54:816:371#0/1
aab`baa^aa[`]^U]^aQX`_0`^[_¥Z¥aaX^^_P¥_]`
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+HWI-EAS443:3:54:897:179#0/1
aa`_a_]ab`a`aa[baaaa¥`aaS`^__¥¥aVY]_¥`W¥
@HWI-EAS443:3:55:1557:1148#0/1
AAAACAGAATGGTGCTGGCTAGCACTACGGCAAAGGCTAT
+HWI-EAS443:3:55:1557:1148#0/1
`_aaa`a`bbaSYa]ba]`_Z_[^ZaRXa^X[`]aZOZVW
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+HWI-EAS443:3:55:1630:1198#0/1
`Uabbbba_P¥_b^0_aUZ`a`aH^¥WTU]`WabaR`aXa^
@HWI-EAS443:3:56:1143:1187#0/1
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+HWI-EAS443:3:56:1143:1187#0/1
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+HWI-EAS443:3:56:1405:482#0/1
aba¥a_M]ULWYW¥X`aVRUZTJWWRH]Y[G[[T^[BBB
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+HWI-EAS443:3:56:1552:1417#0/1
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+HWI-EAS443:3:56:185:1270#0/1
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@HWI-EAS443:3:56:523:1108#0/1
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+HWI-EAS443:3:56:523:1108#0/1
a`U`bb`^bbaaaa`_a_YW]`aZE¥XSX_XT^BBBBBBBB
@HWI-EAS443:3:56:679:809#0/1
GGCAGCAGAGGCCATGGAGGTTGCTAATCAGACTAGGCAG
+HWI-EAS443:3:56:679:809#0/1
aababaaaaabaaaaaa_aa[aZV]]]_`X]]V[W[`]TU[
@HWI-EAS443:3:56:708:1603#0/1
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+HWI-EAS443:3:56:708:1603#0/1
`aba_bbb`bbaaa`_a`[]aa`a`aaa`aa``aaa`_a_

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+HWI-EAS443:3:56:774:1471#0/1
ababb_`bbbaaab`a__baba_`a_a_`_a_ba_a`_]_a
@HWI-EAS443:3:56:984:602#0/1
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+HWI-EAS443:3:56:984:602#0/1
abb]bb]abba]`^aXVaba[Yba]¥`ba]abVWVa]a^U
@HWI-EAS443:3:57:1618:445#0/1
GCCTTTGCCGTAGTGCTAGCCAGCACCATTCTGTTTTTCAT
+HWI-EAS443:3:57:1618:445#0/1
aaabaaa`Z^TU^RWR`a`[U¥_Z`¥YY`_NZaUZ_¥U[^
@HWI-EAS443:3:57:420:423#0/1
TAGCCATTTGTCTGTGAGACCGATGCTGTGAATCAGCAAT
+HWI-EAS443:3:57:420:423#0/1
aaa_aaaaaa_aab^`aaaaaa`a`aa_aa_____a]`Y`
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CAAATGGCTACTACCACCAATCCACTAATCAGGCATGAAA
+HWI-EAS443:3:57:820:1833#0/1
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@HWI-EAS443:3:57:988:920#0/1
GAAAACAGAATGGTGCTGGCTAGCACTACGGCAAAGGCTA
+HWI-EAS443:3:57:988:920#0/1
aa_a_a_```_`¥W_¥a`a¥_`^T_U_¥¥^_¥¥W¥¥^U¥Y
@HWI-EAS443:3:58:1021:1255#0/1
TGGTAGTAGCCATTTGTCTGTGAGACCGATGCTGTGAATC
+HWI-EAS443:3:58:1021:1255#0/1
ZbaSb^][aa_[aba]U__Z__YHU`a`a¥a`a`GZJY`[
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GTCTGATTAGCAACCTCCATGGCCTCTGCTGCCTGTTTAC
+HWI-EAS443:3:58:1082:754#0/1
a`aaaaaaaaaaaa`a````__[a`_a^____`a^_¥_[
@HWI-EAS443:3:58:108:1846#0/1
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+HWI-EAS443:3:58:108:1846#0/1
a^^`_aT^```_Xa`b_[N`BBBBBBBBBBBBBBBBBBBB
@HWI-EAS443:3:58:18:93#0/1
GGTGGTAGTAGCCATTTGTCTGTGAGACCGATGCTGTGAA
+HWI-EAS443:3:58:18:93#0/1
ab_baY^YN¥a¥]P]`¥YWZ[aV]RPKL^ZLJVQNZBBBB
@HWI-EAS443:3:59:1240:1965#0/1
CTTTGCCGTAGTGCTAGCCAGCACCATTCTGTTTTTCATGC
+HWI-EAS443:3:59:1240:1965#0/1
Sababa^ab_`bZab[ZaabYba_bb]b]]bUbaa^_]a[
@HWI-EAS443:3:59:1240:413#0/1
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+HWI-EAS443:3:59:1240:413#0/1
a`__Y_`a`^¥aGa]`aa_^_a¥_¥____a^GQ¥_QWQ_W
@HWI-EAS443:3:59:1323:648#0/1
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+HWI-EAS443:3:59:1323:648#0/1
YXU¥^a]¥ZT]ZYX^a¥¥aa^]XY_baabaaa`_[XGY^_
@HWI-EAS443:3:59:1353:241#0/1
CAAATGGCTACTACCACCAATCCACTAATCAGGCATGAAA
+HWI-EAS443:3:59:1353:241#0/1
`abaabbbba[abaa_aa]a[Z_X]_`baaa]a]¥PRa__
@HWI-EAS443:3:59:1751:1012#0/1
CAGGCATGAAAACAGAATGGTGCTGGCTAGCACTACGGCA
+HWI-EAS443:3:59:1751:1012#0/1
aZbb^aba¥^[``abaaaZ_aa`babbb`bPTPa[HM_GW
@HWI-EAS443:3:59:275:1077#0/1
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+HWI-EAS443:3:59:275:1077#0/1
aba^_U_a`_`_aWVZ]a¥`a]¥a]^`_]`X`[[RZKTPW
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AACAGAATGGTGCTGGCTAGCACTACGGCAAAGGCTATGG
+HWI-EAS443:3:5:1175:774#0/1
_R`b^¥`[^a_N`a^_abZS_]`¥Pa__aa[UW_aXaBB
@HWI-EAS443:3:5:1440:428#0/1
AGTAGCCATTTGTCTGTGAGACCGATGCTGTGAATCAGCA
+HWI-EAS443:3:5:1440:428#0/1
_¥Z[aYa]_aa¥`_]__`SaaON_YTNPGG]T^ZIVUYBB
@HWI-EAS443:3:5:585:610#0/1
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+HWI-EAS443:3:5:585:610#0/1
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@HWI-EAS443:3:5:594:1039#0/1
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+HWI-EAS443:3:5:594:1039#0/1
ab¥b`^a]a^a`aaaa]aXYRNZ_YN`aG¥P^U]`a]OBB
@HWI-EAS443:3:60:1012:764#0/1
TGAAAACAGAATGGTGCTGGCTAGCACTACGGCAAAGGCT
+HWI-EAS443:3:60:1012:764#0/1
[_ORZU_Z_`a^]MNbb[RVaa_¥V¥^^VS]ZVT]VZZ¥U
@HWI-EAS443:3:60:1370:1419#0/1
GTAGTAGCCATTTGTCTGTGAGACCGATGCTGTGAATCAG
+HWI-EAS443:3:60:1370:1419#0/1
a_b__a`_``aaa`^]a]]`_ZMHW_`]V^_Y]]_XN^^
@HWI-EAS443:3:60:156:1146#0/1
TGCCTGATTAGTGGATTGGTGGTAGTAGCCATTTGTCTGT
+HWI-EAS443:3:60:156:1146#0/1
aa`a[aaaa`^`aa^]_____BBBBBBBBBBBBBBBB
@HWI-EAS443:3:60:1632:1476#0/1
GGTGGTAGTAGCCATTTGTCTGTGAGACCGATGCTGTGAA
+HWI-EAS443:3:60:1632:1476#0/1
`baaa_b`_a_`[^bbMa^a][_Y_a^_a__WU_Z]__`
@HWI-EAS443:3:60:803:903#0/1
GAAAACAGAATGGTGCTGGCTAGCACTACGGCAAAGGCTA
+HWI-EAS443:3:60:803:903#0/1
`^aaa`_`_¥`_U`[]`X]¥a^¥]¥^]V]]Z^[^WV¥[

@HWI-EAS443:3:60:902:724#0/1
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+HWI-EAS443:3:60:902:724#0/1
`bbaZ^a`baab_aba_b`^`ZaZba^^S_a___^]Xa^a
@HWI-EAS443:3:60:958:1326#0/1
AGACAAATGGCTACTACCACCAATCCACTAATCAGGCATG
+HWI-EAS443:3:60:958:1326#0/1
a_a_abT_¥¥``aU_aU_aYaaWNZ^[Y_^_X[]_V^^]
@HWI-EAS443:3:61:1472:1203#0/1
AATCCACTAATCAGGCATGAAAACAGAATGGTGCTGGCTA
+HWI-EAS443:3:61:1472:1203#0/1
_^_a]abbaaaaa`_bab`X¥¥aaba`__[]^`VYVY
@HWI-EAS443:3:61:230:692#0/1
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+HWI-EAS443:3:61:230:692#0/1
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@HWI-EAS443:3:61:771:928#0/1
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+HWI-EAS443:3:61:771:928#0/1
ab__`a[ababa]aab¥¥a^Xaaa_^V]`__^¥__¥^WW
@HWI-EAS443:3:61:783:1568#0/1
AGCCATTTGTCTGTGAGACCGATGCTGTGAATCAGCAATC
+HWI-EAS443:3:61:783:1568#0/1
]Y]a`^Z]_``T_XV_Z]``¥JZ__^_¥`a`¥OWQY[[VJ
@HWI-EAS443:3:61:78:1029#0/1
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+HWI-EAS443:3:61:78:1029#0/1
``b`b]bbabbbabbbb_Zabbab_Q__bbaa`a`^R¥__
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+HWI-EAS443:3:61:888:1761#0/1
¥__Z]b``S¥¥Q_R]OYSa_WR`U¥a`TU_RWS_X]P[GR
@HWI-EAS443:3:61:94:1142#0/1
ATCTGCCTAGTCTGATTAGCAACCTCCATGGCCTCTGCTG
+HWI-EAS443:3:61:94:1142#0/1
]Q_VWZVTT_U]]¥`^_a`__a`^`^`[``XVZXYTZ¥V
@HWI-EAS443:3:62:108:371#0/1
GCTAGCCAGCACCATTCTGTTTTTCATGCCTGATTAGTGGA
+HWI-EAS443:3:62:108:371#0/1
a`¥_]_`Z]^W^]]WZ_^¥]Q__a`]Y^[[`T[YYW¥VQ
@HWI-EAS443:3:62:1096:1430#0/1
GTGCTGGCTAGCACTACGGCAAAGGCTATGGAACAGATGG
+HWI-EAS443:3:62:1096:1430#0/1
aaaab`aba`[`a]abaaaaabaa_^_a`aV_^``_YY]
@HWI-EAS443:3:62:1104:93#0/1
GACAAATGGCTACTACCACCAATCCACTAATCAGGCATGA
+HWI-EAS443:3:62:1104:93#0/1
ababb¥a_^aaaLaaI_^__^X¥¥_¥[]_YSZ^TDT``_
@HWI-EAS443:3:62:1349:218#0/1
ACCATCTGCCTAGTCTGATTAGCAACCTCCATGGCCTCTG

+HWI-EAS443:3:62:1349:218#0/1
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@HWI-EAS443:3:62:1433:604#0/1
CTCACAGACAAATGGCTACTACCACCAATCCACTAATCAG
+HWI-EAS443:3:62:1433:604#0/1
RX`JWW¥__`b__bb`b``^W_a^^`^b_¥`MW^^]]XZ
@HWI-EAS443:3:62:574:1800#0/1
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+HWI-EAS443:3:62:574:1800#0/1
_`X¥aaWTVa__LDVZ`¥`^_YS¥]ODMZUYVNNLSLL
@HWI-EAS443:3:63:1626:203#0/1
GTGCTGGCTAGCACTACGGCAAAGGCTATGGAACAGATGG
+HWI-EAS443:3:63:1626:203#0/1
aaa_abbaab_]_`_a`KXaXaa¥`Z_`¥MaS`ZXY]^
@HWI-EAS443:3:63:484:181#0/1
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+HWI-EAS443:3:63:484:181#0/1
aabb^ab]^]Xa`_aa¥XURVRTTTZ_^XBBBBBBBBBBB
@HWI-EAS443:3:63:523:231#0/1
GTCTGATTAGCAACCTCCATGGCCTCTGCTGCCTGTTTAC
+HWI-EAS443:3:63:523:231#0/1
a`aabaa`aaaaa^]aa]aa_^a__`_a_Z[[[Y¥[RTXW
@HWI-EAS443:3:64:1287:33#0/1
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+HWI-EAS443:3:64:1287:33#0/1
ab¥babaZX`bbabbaaba`_Y_]`a^a`]Y^Y]aS_Z¥P
@HWI-EAS443:3:64:1424:319#0/1
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+HWI-EAS443:3:64:1424:319#0/1
a_[a_`a`a`aaa]^`a`^Z[`]`_Y_]`^aX`Y^YZ
@HWI-EAS443:3:64:1597:1287#0/1
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+HWI-EAS443:3:64:1597:1287#0/1
aa`a_a``I```VSMTPYQTXRTU[WOBBSBBBBBBBBBBB
@HWI-EAS443:3:64:182:361#0/1
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+HWI-EAS443:3:64:182:361#0/1
aa`aaaa_aaa``][`^`S¥¥V0^UYQ^BBBBBBBBBBBBB
@HWI-EAS443:3:64:710:286#0/1
TAGCCATTTGTCTGTGAGACCGATGCTGTGAATCAGCAAT
+HWI-EAS443:3:64:710:286#0/1
aa]^`babbaa`abb`babbaaba`aaaa`aaaaa`_aa`
@HWI-EAS443:3:64:910:1194#0/1
CCTGATTAGTGGATTGGTGGTAGTAGCCATTTGTCTGTGA
+HWI-EAS443:3:64:910:1194#0/1
abb`bbbababbaab`aaa`S¥SHWMF]PW_aBBBBBBBBB
@HWI-EAS443:3:65:1186:522#0/1
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+HWI-EAS443:3:65:1186:522#0/1
`a]]_YO^EPZP_P¥aa[V^]`YQJV^UTJW^BBBBBBBBB

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+HWI-EAS443:3:65:1404:190#0/1
`a`aa]`aa`aaXKZ`a`W¥_`^]____W^]¥WWW`WW¥
@HWI-EAS443:3:65:311:1749#0/1
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+HWI-EAS443:3:65:311:1749#0/1
abaa`Wabbabbaaaababba_aaaba]Tabbaaaaaaaaa
@HWI-EAS443:3:65:509:1552#0/1
ATCCACTAATCAGGCATGAAAACAGAATGGTGCTGGCTAG
+HWI-EAS443:3:65:509:1552#0/1
aaa`]^^aa`a``]a`_aaZ¥Z^a_aX^__Y^]¥^_UZQ
@HWI-EAS443:3:65:802:579#0/1
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+HWI-EAS443:3:65:802:579#0/1
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+HWI-EAS443:3:66:119:1676#0/1
aa_a`aaa_Y_a`[S¥a[_L]XNZY`^_YRXRYTVRZ]
@HWI-EAS443:3:66:1346:1512#0/1
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+HWI-EAS443:3:66:1346:1512#0/1
`Ya]V_aaaaaa`W]aaZ][]¥¥¥QQ¥Z¥X[`YY]V[`
@HWI-EAS443:3:66:1398:206#0/1
CAGACAAATGGCTACTACCACCAATCCACTAATCAGGCAT
+HWI-EAS443:3:66:1398:206#0/1
abaS`X¥^a¥aaaZO¥HL¥W¥^a^¥X¥a^¥]_X_Z¥KX[
@HWI-EAS443:3:66:1453:1157#0/1
CTGTTCCATAGCCTTTGCCGTAGTGCTAGCCAGCACCATT
+HWI-EAS443:3:66:1453:1157#0/1
abbababbababababb`aa_ba_baaab`_`a¥a¥__a`
@HWI-EAS443:3:66:426:836#0/1
GATTGGTGGTAGTAGCCATTTGTCTGTGAGACCGATGCTG
+HWI-EAS443:3:66:426:836#0/1
`abb`[aa]LUTSbbLa`^Ua_aa[]^_a^aH_V^QGURa
@HWI-EAS443:3:66:880:764#0/1
ACAGAATGGTGCTGGCTAGCACTACGGCAAAGGCTATGGA
+HWI-EAS443:3:66:880:764#0/1
a_]¥abaaaZ]a`a`a]W][Z¥a_____^[`¥^]_^Z^[`U
@HWI-EAS443:3:67:1075:999#0/1
GTGGTAGTAGCCATTTGTCTGTGAGACCGATGCTGTGAAT
+HWI-EAS443:3:67:1075:999#0/1
a_a`Vb`WaaaaU`aaQVXXQL]XZ_Z_VNSXYVXLYS[B
@HWI-EAS443:3:67:1317:588#0/1
AGCAACCTCCATGGCCTCTGCTGCCTGTTCACTCGATCCA
+HWI-EAS443:3:67:1317:588#0/1
^]`^aba`baaa__]_]b``WZ_[`a]aaa_aaaY_`aZa[
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CAATCCACTAATCAGGCATGAAAACAGAATGGTGCTGGCT

+HWI-EAS443:3:67:1496:1261#0/1
a`aaZ^aaa]]`a_UY^aa`_`aaaaa`aaaXZ`¥a`]]^
@HWI-EAS443:3:68:1234:1290#0/1
ACAGAATGGTGCTGGCTAGCACTACGGCAAAGGCTATGGA
+HWI-EAS443:3:68:1234:1290#0/1
]_]_UI_WX[^¥__^_T]_XZ_aTZ`_`[^`¥V¥]WX`J
@HWI-EAS443:3:68:1294:821#0/1
GATTGGTGGTAGTAGCCATTTGTCTGTGAGACCGATGCTG
+HWI-EAS443:3:68:1294:821#0/1
aaa`a`^a`Pa[Z_X__^[`a]]X¥TNUJN^T[]SSXVY^
@HWI-EAS443:3:68:1549:306#0/1
GAACAGATTGCTGATTCACAGCATCGGTCTCACAGACAAA
+HWI-EAS443:3:68:1549:306#0/1
`a`_`[¥`_X[a^Ya_S^]`¥M`_¥`^WZ^Y]Z_]0_]_
@HWI-EAS443:3:68:1605:2000#0/1
CTCACAGACAAATGGCTACTACCACCAATCCACTAATCAG
+HWI-EAS443:3:68:1605:2000#0/1
aa][_a`abaab[T`aa`UZZ`^^aY_[R]_YWP]PU`¥
@HWI-EAS443:3:68:1724:304#0/1
AGCCATTTGTCTGTGAGACCGATGCTGTGAATCAGCAATC
+HWI-EAS443:3:68:1724:304#0/1
aV`_`a`a]^_aa`a¥_]^Za_a_[`^^Za_^_aR]YaN
@HWI-EAS443:3:68:173:71#0/1
CAGCATCGGTCTCACAGACAAATGGCTACTACCACCAATC
+HWI-EAS443:3:68:173:71#0/1
a_aaaaaabZaaaaY_a`^_`_____¥NZ_T^RQ]¥[GS
@HWI-EAS443:3:68:319:1367#0/1
ACAGAATGGTGCTGGCTAGCACTACGGCAAAGGCTATGGA
+HWI-EAS443:3:68:319:1367#0/1
abbaaa]¥_Z_a¥ZZa]` `[a¥[U_¥XU]^¥XZ]Q¥SOTR
@HWI-EAS443:3:68:596:901#0/1
AGTAGCCATTTGTCTGTGAGACCGATGCTGTGAATCAGCA
+HWI-EAS443:3:68:596:901#0/1
a`Sa_a`a_a__X_] [U]X^^`^YU]]]]UU]^]]¥[X_
@HWI-EAS443:3:68:703:1434#0/1
AGCCATTTGTCTGTGAGACCGATGCTGTGAATCAGCAATC
+HWI-EAS443:3:68:703:1434#0/1
aaaa`aaa_a`_]`_`a^^`__a_[`a`_`__^^^_
@HWI-EAS443:3:68:704:1911#0/1
AGCCTTTGCCGTAGTGCTAGCCAGCACCATTTCTGTTTTCA
+HWI-EAS443:3:68:704:1911#0/1
aXab`_`aaba¥Mba¥ab_a^Xa]Sa__a`_]a^_H¥^^`_
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+HWI-EAS443:3:68:896:401#0/1
a`aa`aaaaWa_RYBBBBBBBBBBBBBBBBBBBBBBBBBBB
@HWI-EAS443:3:68:918:1656#0/1
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+HWI-EAS443:3:68:918:1656#0/1
[```_¥¥b_]¥ab`_`W`_`_R¥`aa`^I`^`^_RZM¥]^U

+HWI-EAS443:3:6:517:347#0/1
_a_b_[^b_Wbb_^PVba`]Y[XaaH[aa`Wa_YHa`_SB
@HWI-EAS443:3:70:149:420#0/1
GAACAGATTGCTGATTCACAGCATCGGTCTCACAGACAAA
+HWI-EAS443:3:70:149:420#0/1
a__`aa`aabbaaaaa_a_aaaa`_a`¥`_aW¥____`]Q_
@HWI-EAS443:3:70:608:1593#0/1
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+HWI-EAS443:3:70:608:1593#0/1
aaabbabaa`aa]a[aa`aaaa^aaa`a^`aa`a`aaaa_
@HWI-EAS443:3:71:1493:624#0/1
CAGACAAATGGCTACTACCACCAATCCACTAATCAGGCAT
+HWI-EAS443:3:71:1493:624#0/1
`bbb`babaabba_b`^`a__aaab_a`^_a¥aYa`_G[W
@HWI-EAS443:3:71:485:836#0/1
GGTGGTAGTAGCCATTTGTCTGTGAGACCGATGCTGTGAA
+HWI-EAS443:3:71:485:836#0/1
]¥Sbbaa`TYWZ`a^a`Z]a_UZWV¥`[^[SV]]]¥L`^^`
@HWI-EAS443:3:72:175:910#0/1
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+HWI-EAS443:3:72:175:910#0/1
a`Va_a]`_^`_Y_^_V^Z^^__YNSWZ]_U^UUUV]VYV]
@HWI-EAS443:3:72:993:1607#0/1
GAGTGAACAGGCAGCAGAGGCCATGGAGGTTGCTAATCAG
+HWI-EAS443:3:72:993:1607#0/1
aba`abbbaaaaba^a_Z`_X^`_`]U]`H[PRV¥`VZ[B
@HWI-EAS443:3:73:1248:736#0/1
ATTGCTGATTCACAGCATCGGTCTCACAGACAAATGGCTA
+HWI-EAS443:3:73:1248:736#0/1
`aa`abba`__a^`__`a^aa][aa^P]_`X`a`]X^P^Z
@HWI-EAS443:3:73:1542:1332#0/1
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+HWI-EAS443:3:73:1542:1332#0/1
]aba]]aab`bVab_aaZ^^a`_a^a_STaH¥_XaJ]aN[
@HWI-EAS443:3:73:1597:1727#0/1
AAAACAGAATGGTGCTGGCTAGCACTACGGCAAAGGCTAT
+HWI-EAS443:3:73:1597:1727#0/1
a]aaaaaaaa`a_aa^`[^`TV][P`UZ^`Y]VV[ZZ[[
@HWI-EAS443:3:73:1607:829#0/1
TTTGTCTGTGAGACCGATGCTGTGAATCAGCAATCTGTTC
+HWI-EAS443:3:73:1607:829#0/1
aaa__b__Q¥a_^][a^__Y`_`_`S]^`_]X`¥X¥V
@HWI-EAS443:3:73:34:429#0/1
GCCTAGTCTGATTAGCAACCTCCATGGCCTCTGCTGCCTG
+HWI-EAS443:3:73:34:429#0/1
^a]`]RT¥bZGWN[`__¥`_]`^`VWXVZMOW¥NUOR]TZV
@HWI-EAS443:3:74:1062:1824#0/1
GGTGGTAGTAGCCATTTGTCTGTGAGACCGATGCTGTGAA
+HWI-EAS443:3:74:1062:1824#0/1
YS]]S`TKY`[][`a^S[Y_PTZX¥X_PSWNPN]RMY`

@HWI-EAS443:3:74:1692:1785#0/1
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+HWI-EAS443:3:74:1692:1785#0/1
Q¥ba^b]]][aba¥T^¥Zb_R]_RZba^`^`ZXZ_ZY
@HWI-EAS443:3:74:224:1401#0/1
CTTTGCCGTAGTGCTAGCCAGCACCATTCTGTTTTTCATGC
+HWI-EAS443:3:74:224:1401#0/1
aaaaaa^U`]]_a_a_^`Z^_W¥]¥Z_a__[]^a`]]^
@HWI-EAS443:3:74:300:252#0/1
CATCTGCCTAGTCTGATTAGCAACCTCCATGGCCTCTGCT
+HWI-EAS443:3:74:300:252#0/1
abbbbbbbbaaaabbbbabaabaabaabaa`a`aa¥`
@HWI-EAS443:3:74:337:1710#0/1
GTAGCCATTTGTCTGTGAGACCGATGCTGTGAATCAGCAA
+HWI-EAS443:3:74:337:1710#0/1
__`b`¥`b_X[`aaR]^aaa^]a`aaZ^^aaa]abaaa]
@HWI-EAS443:3:75:1536:1565#0/1
GCCTAGTCTGATTAGCAACCTCCATGGCCTCTGCTGCCTG
+HWI-EAS443:3:75:1536:1565#0/1
aaab`a^aba`^aaaaa`^^aa`aaZa]`aY]aUT¥`
@HWI-EAS443:3:75:1652:157#0/1
AAACAGAATGGTGCTGGCTAGCACTACGGCAAAGGCTATG
+HWI-EAS443:3:75:1652:157#0/1
J_bbZb`ab`_0_baaba_^¥T`IbaP^ba_aa[¥DY]ZZ
@HWI-EAS443:3:75:405:1351#0/1
GTGGTAGTAGCCATTTGTCTGTGAGACCGATGCTGTGAAT
+HWI-EAS443:3:75:405:1351#0/1
a_ba¥^`Z`Z_aSa[a^__`S]¥¥V_Z__[RPR]WVZ[^]
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TGAACAGATTGCTGATTCACAGCATCGGTCTCACAGACAA
+HWI-EAS443:3:75:597:1038#0/1
Ub¥¥`¥b¥Ub`_¥baba¥Ua_U]^b`bV]a`^aNZT`_aY
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+HWI-EAS443:3:75:622:1169#0/1
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@HWI-EAS443:3:76:1099:228#0/1
AAAACAGAATGGTGCTGGCTAGCACTACGGCAAAGGCTAT
+HWI-EAS443:3:76:1099:228#0/1
abab^ba_bab]Vb_aab``aa]a[__W_`VZ__`[J[]Z
@HWI-EAS443:3:76:1301:588#0/1
TGAAAACAGAATGGTGCTGGCTAGCACTACGGCAAAGGCT
+HWI-EAS443:3:76:1301:588#0/1
aa`U]_]¥V[`HSPX[]V¥`_`^_YZ`XTZZXNT_`]NQ
@HWI-EAS443:3:76:244:1984#0/1
CAGAATGGTGCTGGCTAGCACTACGGCAAAGGCTATGGAA
+HWI-EAS443:3:76:244:1984#0/1
]]_baaaaZa^`aab_^^^`a`a`__QZ_^Y^¥SYZ_WX
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+HWI-EAS443:3:76:81:1540#0/1
Y¥a`aaa`^^a^`]^a^aa^¥¥]^`^]W[X[YWYV[W
@HWI-EAS443:3:76:990:541#0/1
TGGTAGTAGCCATTTGTCTGTGAGACCGATGCTGTGAATC
+HWI-EAS443:3:76:990:541#0/1
aba`_a_aa__`aa_a^`_a^a^`_[_`^`_^`^a__]V
@HWI-EAS443:3:77:1235:439#0/1
GCCTAGTCTGATTAGCAACCTCCATGGCCTCTGCTGCCTG
+HWI-EAS443:3:77:1235:439#0/1
aaaa^aY`a_S`VZ]a`_Z_a`_[^[\N¥Y¥aZ__VNV_
@HWI-EAS443:3:77:319:1967#0/1
GACAAATGGCTACTACCACCAATCCACTAATCAGGCATGA
+HWI-EAS443:3:77:319:1967#0/1
[^aabba`aab^¥b_baaa`a`^`_a]b¥bb¥_aaU`
@HWI-EAS443:3:77:356:1125#0/1
GCCTAGTCTGATTAGCAACCTCCATGGCCTCTGCTGCCTG
+HWI-EAS443:3:77:356:1125#0/1
`bbb_aWbbbaaaabbaaaabaaa```]_]aa__a`_
@HWI-EAS443:3:77:46:1957#0/1
AGCCATTTGTCTGTGAGACCGATGCTGTGAATCAGCAATC
+HWI-EAS443:3:77:46:1957#0/1
a^aa____^`]____YV_^`a_¥[]_]Y^_]_^]__^X]
@HWI-EAS443:3:78:391:981#0/1
TGGTAGTAGCCATTTGTCTGTGAGACCGATGCTGTGAATC
+HWI-EAS443:3:78:391:981#0/1
a¥a^baTbaaa`_aa¥Z_a]`_``a_a`_[^^aZ`_`U_
@HWI-EAS443:3:78:53:936#0/1
CAGAATGGTGTGGCTAGCACTACGGCAAAGGCTATGGAA
+HWI-EAS443:3:78:53:936#0/1
`[RTZW]U`Q]XVXZWOQVN]YV_]`^¥Y_VZQB BBBB
@HWI-EAS443:3:78:879:820#0/1
CTAGTCTGATTAGCAACCTCCATGGCCTCTGCTGCCTGTT
+HWI-EAS443:3:78:879:820#0/1
aaa]Y¥`baaab]_aaa_aa¥`ZPSYa`]¥_^`VW^W_S¥
@HWI-EAS443:3:79:1336:1677#0/1
AGTAGCCATTTGTCTGTGAGACCGATGCTGTGAATCAGCA
+HWI-EAS443:3:79:1336:1677#0/1
Va__GV_a^ba`W^S^Y]__^ZT¥Z`_UXZTZ]PZN[PWZ
@HWI-EAS443:3:79:1550:813#0/1
TGCCTAGTCTGATTAGCAACCTCCATGGCCTCTGCTGCCT
+HWI-EAS443:3:79:1550:813#0/1
VRX[VQZW^_b`_`[¥a__^`_^]`b`[YN^)`SZa[¥a
@HWI-EAS443:3:79:695:556#0/1
CAGGCATGAAAACAGAATGGTGTGGCTAGCACTACGGCA
+HWI-EAS443:3:79:695:556#0/1
aabZbabbUbaaabaaaa`XVa_aaaa_a_aa_¥Z_¥T`a
@HWI-EAS443:3:80:616:909#0/1
AACAGAATGGTGTGGCTAGCACTACGGCAAAGGCTATGG
+HWI-EAS443:3:80:616:909#0/1
aaaba_[a]_R__aaa`a]``[``¥P^aa`W`__[_YQ

@HWI-EAS443:3:80:671:1784#0/1
GTCTGATTAGCAACCTCCATGGCCTCTGCTGCCTGTTTAC
+HWI-EAS443:3:80:671:1784#0/1
`aba]^aX[`ab``]b^a]VSYa^Z_Y¥``]^_Y^``]
@HWI-EAS443:3:80:759:521#0/1
GACAAATGGCTACTACCACCAATCCACTAATCAGGCATGA
+HWI-EAS443:3:80:759:521#0/1
aaa^^`a`aa_X`_]`^][[^`Z`^_YVW]a¥^`^Z
@HWI-EAS443:3:80:998:2039#0/1
GTGAACAGGCAGCAGAGGCCATGGAGGTTGCTAATCAGAC
+HWI-EAS443:3:80:998:2039#0/1
aSaX]]SRL_`XZBBBBBBBBBBBBBBBBBBBBBBBBBB
@HWI-EAS443:3:81:608:1001#0/1
GAACAGATTGCTGATTACAGCATCGGTCTCACAGACAAA
+HWI-EAS443:3:81:608:1001#0/1
aVb_b`Vaabaabaaaaba[ab`ba`Xa_aa^`aa`ba
@HWI-EAS443:3:81:873:278#0/1
GTGCTGGCTAGCACTACGGCAAAGGCTATGGAACAGATGG
+HWI-EAS443:3:81:873:278#0/1
a`V```a`¥`a^TR`XPV]Z^X^_YKTW¥^^S[UO¥UNYW
@HWI-EAS443:3:81:966:1873#0/1
GCTAGCCAGCACCATTCTGTTTTTCATGCCTGATTAGTGGA
+HWI-EAS443:3:81:966:1873#0/1
abaa]aaaaaaaa`aa]aTa`aa`aaa`a]a]_`Xa][
@HWI-EAS443:3:82:159:825#0/1
TGGTAGTAGCCATTTGTCTGTGAGACCGATGCTGTGAATC
+HWI-EAS443:3:82:159:825#0/1
_XRYb_Y``]aU``aWL]¥^I^_aaV```V`_W]Z][]T¥
@HWI-EAS443:3:82:1678:1499#0/1
AGCCAGCACCATTCTGTTTTTCATGCCTGATTAGTGGATTG
+HWI-EAS443:3:82:1678:1499#0/1
`babaaababbbabb^bbb``ab`_ba`bbbb_bbaaab
@HWI-EAS443:3:82:621:277#0/1
GCCTGATTAGTGGATTGGTGGTAGTAGCCATTTGTCTGTG
+HWI-EAS443:3:82:621:277#0/1
aba```abaa^baaaaa¥a¥BBBBBBBBBBBBBBBBBB
@HWI-EAS443:3:82:842:1596#0/1
GATTCACAGCATCGGTCTCACAGACAAATGGCTACTACCA
+HWI-EAS443:3:82:842:1596#0/1
ab`_`]ab[_bb_aa[bbab`bab`aaa`a`b`aQWa[aa
@HWI-EAS443:3:82:95:1797#0/1
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+HWI-EAS443:3:82:95:1797#0/1
abbbbbabb`^abbaba`abbbbaaa^aaabaaaa_aaaa
@HWI-EAS443:3:82:985:347#0/1
GCATCGGTCTCACAGACAAATGGCTACTACCACCAATCCA
+HWI-EAS443:3:82:985:347#0/1
aaaaaab]aaa__b`Zaa`^``]_V^^G_XU^R_UQ_]`
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CATTTGTCTGTGAGACCGATGCTGTGAATCAGCAATCTGT

+HWI-EAS443:3:83:1355:167#0/1
abb[_XS`¥^`aWWa`SSSa`L`]]_]_¥MRRPP]]P
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CTAGCCAGCACCATTCTGTTTTTCATGCCTGATTAGTGGAT
+HWI-EAS443:3:84:100:1044#0/1
aa¥ab^RT^a`aWY^`[¥`[^X]_[V]^[[^YU[V^_
@HWI-EAS443:3:84:731:1651#0/1
AATGGTGCTGGCTAGCACTACGGCAAAGGCTATGGAACAG
+HWI-EAS443:3:84:731:1651#0/1
a_WX_[aRGQ]]][aY^WP^_TTXKZ[Q]UX^^Z_RT[]^¥
@HWI-EAS443:3:84:846:1102#0/1
CAGACAAATGGCTACTACCACCAATCCACTAATCAGGCAT
+HWI-EAS443:3:84:846:1102#0/1
aaaab_babaaaab`^_S`a`^^`[a`a_a``^SY`^^^^
@HWI-EAS443:3:85:1111:1299#0/1
TAGCCATTTGTCTGTGAGACCGATGCTGTGAATCAGCAAT
+HWI-EAS443:3:85:1111:1299#0/1
abbbaabbaaaa`b`aaabbabaa`aaaabaaaaab_a``
@HWI-EAS443:3:85:182:1914#0/1
GGATTGGTGGTAGTAGCCATTTGTCTGTGAGACCGATGCT
+HWI-EAS443:3:85:182:1914#0/1
`bba`^__aa^UV]Q_^UT¥_H[Z_ZNSMNTP]BBBBBB
@HWI-EAS443:3:85:297:102#0/1
GTGCTGGCTAGCACTACGGCAAAGGCTATGGAACAGATGG
+HWI-EAS443:3:85:297:102#0/1
aababbbbaaaa_aZZ`Qa``__Qa`V^W_[_¥¥S^XST`_
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CTGTTCCATAGCCTTTGCCGTAGTGCTAGCCAGCACCATT
+HWI-EAS443:3:85:911:73#0/1
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@HWI-EAS443:3:86:1380:808#0/1
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+HWI-EAS443:3:86:1380:808#0/1
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@HWI-EAS443:3:86:159:1522#0/1
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+HWI-EAS443:3:86:159:1522#0/1
¥`aaaaa_[^Z^]¥¥a¥_[YVYa_][]¥``_[V[ZVTR
@HWI-EAS443:3:86:1653:570#0/1
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+HWI-EAS443:3:86:1653:570#0/1
_b]baab`babXW`a__a[SX``Yaab`^YNbaa___`Z
@HWI-EAS443:3:86:447:225#0/1
CAAATGGCTACTACCACCAATCCACTAATCAGGCATGAAA
+HWI-EAS443:3:86:447:225#0/1
a[]aaabbabTQ^¥]]`a`_`_a]^Z`_XU[_S^_W[^
@HWI-EAS443:3:87:1433:727#0/1
AGCCATTTGTCTGTGAGACCGATGCTGTGAATCAGCAATC
+HWI-EAS443:3:87:1433:727#0/1
a¥baaUb¥`]]`R_`]ba^S`^`_aa^ba`_]ab[aaaY

@HWI-EAS443:3:87:532:1221#0/1
CAGGCATGAAAACAGAATGGTGCTGGCTAGCACTACGGCA
+HWI-EAS443:3:87:532:1221#0/1
a_`]¥aa`[ababaaab_a[Z_aa_`a`aR`Za[[_S]L]
@HWI-EAS443:3:88:1141:1398#0/1
AGCAACCTCCATGGCCTCTGCTGCCTGTTCACTCGATCCA
+HWI-EAS443:3:88:1141:1398#0/1
X[T]b`a`a`^a`Z]]`]]^`[_]_Z__X]aa_]VV[
@HWI-EAS443:3:88:1678:1446#0/1
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+HWI-EAS443:3:88:1678:1446#0/1
aa`ababbaab`abSaa`b`a`aa`aPZ^ba]ab_aba]`
@HWI-EAS443:3:88:59:1683#0/1
TGGTAGTAGCCATTTGTCTGTGAGACCGATGCTGTGAATC
+HWI-EAS443:3:88:59:1683#0/1
YY¥R_[Q_U_ZZX]]¥`a__V_W¥Y`VP`__`¥R]]][JU
@HWI-EAS443:3:88:648:124#0/1
AGCCATTTGTCTGTGAGACCGATGCTGTGAATCAGCAATC
+HWI-EAS443:3:88:648:124#0/1
abaabbbabaaba_a`a`aaaaa_aa_a`_a]`V_a__
@HWI-EAS443:3:88:728:209#0/1
GCCTAGTCTGATTAGCAACCTCCATGGCCTCTGCTGCCTG
+HWI-EAS443:3:88:728:209#0/1
X^`^bbb_bbbb_```ba_]`aaa^`]^aab````^`ab
@HWI-EAS443:3:89:1167:1348#0/1
GCCTGATTAGTGGATTGGTGGTAGTAGCCATTTGTCTGTG
+HWI-EAS443:3:89:1167:1348#0/1
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@HWI-EAS443:3:89:1307:803#0/1
TGAAAACAGAATGGTGCTGGCTAGCACTACGGCAAAGGCT
+HWI-EAS443:3:89:1307:803#0/1
ab^]YW¥Xa`X^aXNa]`aa_]^`V_]VPR]X[Z`XNZ
@HWI-EAS443:3:89:1647:896#0/1
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+HWI-EAS443:3:89:1647:896#0/1
a]bb`RTH_`aU¥Z]T^YT_W0aU]]XU`[^`^b`WZU[`W
@HWI-EAS443:3:89:330:1309#0/1
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+HWI-EAS443:3:89:330:1309#0/1
`W`a^aWb]^¥a[W````^X`[VP¥bZZ¥]OHXYU_XOVY
@HWI-EAS443:3:89:541:187#0/1
GATTAGTGGATTGGTGGTAGTAGCCATTTGTCTGTGAGAC
+HWI-EAS443:3:89:541:187#0/1
aaaaabZaa[a`a_]aZKUUBBBBBBBBBBBBBBBBBBBB
@HWI-EAS443:3:89:742:1330#0/1
ATTTGTCTGTGAGACCGATGCTGTGAATCAGCAATCTGTT
+HWI-EAS443:3:89:742:1330#0/1
`^Y`bbbaTWVW^bb_]`]]`ab````^`a]¥`aa]T`]^
@HWI-EAS443:3:89:854:512#0/1
CAGGCAGCAGAGGCCATGGAGTTGCTAATCAGACTAGGC

+HWI-EAS443:3:89:854:512#0/1
abaab`abbaa`aababaa`aa]`aYaa`aZa`a[¥_V]R
@HWI-EAS443:3:8:257:758#0/1
AGTCTGATTAGCAACCTCCATGGCCTCTGCTGCCTGTTCA
+HWI-EAS443:3:8:257:758#0/1
aaaabbbb]b`aaaa`^aa_a`_`a]^[]V`a_¥¥`
@HWI-EAS443:3:8:377:1319#0/1
CATAGCCTTTGCCGTAGTGCTAGCCAGCACCATTCTGTTT
+HWI-EAS443:3:8:377:1319#0/1
ababbb_`abaabb_baU_UU_a^aaa_a[a^a_``a¥`_`
@HWI-EAS443:3:8:859:492#0/1
CTCACAGACAAATGGCTACTACCACCAATCCACTAATCAG
+HWI-EAS443:3:8:859:492#0/1
`U_Z]`_]_UGY[_U^¥UY_ZSaYa^Ua¥X¥^[PW¥TF_a
@HWI-EAS443:3:90:1673:715#0/1
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+HWI-EAS443:3:90:1673:715#0/1
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@HWI-EAS443:3:90:959:1425#0/1
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+HWI-EAS443:3:90:959:1425#0/1
a^F[[_bbabUNaba`bUaabaa__Y`^a__`^^a¥`_¥b
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+HWI-EAS443:3:91:1479:1550#0/1
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+HWI-EAS443:3:91:1748:159#0/1
aaaabaaaaaaa`aaaa`_a_Za`¥`aU___a^P^_QNZ
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+HWI-EAS443:3:91:1779:795#0/1
aa[ZY_baXa¥T`a^baa`XV``a^U]0[^`^`UR[_YGK
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+HWI-EAS443:3:91:190:1088#0/1
a]WQ]TWZZTX0a[b]WW`baa`_W]00EVH]a^]I_TY
@HWI-EAS443:3:91:313:464#0/1
AGCCATTTGTCTGTGAGACCGATGCTGTGAATCAGCAATC
+HWI-EAS443:3:91:313:464#0/1
`¥¥`¥aaba¥¥a_¥a^b]aaa`aaa`Y`^a`^`[``Y
@HWI-EAS443:3:91:692:346#0/1
CATGAAAACAGAATGGTGTGGCTAGCACTACGGCAAAGG
+HWI-EAS443:3:91:692:346#0/1
¥b¥_XL_`^[_¥baaZX[_Wa¥U_b_^]_¥WXaaYHW^aa^
@HWI-EAS443:3:91:795:1832#0/1
ACAGAATGGTGTGGCTAGCACTACGGCAAAGGCTATGGA
+HWI-EAS443:3:91:795:1832#0/1
abaa_a`^^U]]`]Uaaa[0]^`¥IY]X`a^]ZO¥YWMVQ

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+HWI-EAS443:3:92:1092:1104#0/1
`aa_¥_S`Xa`a]M¥aa___^Z_``QS`a[```_¥[N_^
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+HWI-EAS443:3:92:1337:592#0/1
aa`aa]X`^``aa_^`a`aY__U_VYVPP[]^UO_OV
@HWI-EAS443:3:92:438:1168#0/1
CACAGCATCGGTCTCACAGACAAATGGCTACTACCACCAA
+HWI-EAS443:3:92:438:1168#0/1
a`[`a`a_aa`W[aaa__``_a__UZ_Y__IXZH]UVX]]
@HWI-EAS443:3:92:73:533#0/1
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+HWI-EAS443:3:92:73:533#0/1
TaT¥_aa`aaaaaR]bZZ¥RVWVaaa]Qa00]V`OVY^^X
@HWI-EAS443:3:93:1153:711#0/1
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+HWI-EAS443:3:93:1153:711#0/1
a^abab_aaabaaaaab`^aaa```]^^`^_a]^`UW_a
@HWI-EAS443:3:93:1267:801#0/1
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+HWI-EAS443:3:93:1267:801#0/1
a_aa^aa^`]YY__ab]WQVZY`TXUUR]LTUT[Y^QZ[V
@HWI-EAS443:3:93:1474:577#0/1
TAGCCATTTGTCTGTGAGACCGATGCTGTGAATCAGCAAT
+HWI-EAS443:3:93:1474:577#0/1
aaa`_`a¥_a^Ya_^a_XaPU`_]¥X`¥[___]_R[^G00_
@HWI-EAS443:3:93:1650:627#0/1
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+HWI-EAS443:3:93:1650:627#0/1
a_`baa`_aaabab`Zbaaa`aaaXa`^_V]a`UaW¥ZZ_
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+HWI-EAS443:3:93:352:253#0/1
aaa`aaaaaaa`a____]_`^`^a_^`^[_`VTU^^MX]_
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CACAGACAAATGGCTACTACCACCAATCCACTAATCAGGC
+HWI-EAS443:3:93:740:648#0/1
`aabaaaaa`aaaaaaa_`¥`_a`Ya_Z¥a_`_^Z]W^_
@HWI-EAS443:3:93:939:1286#0/1
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+HWI-EAS443:3:93:939:1286#0/1
aaaaaabaa`]__bbaaa``aaa_^a]T_`_¥_X_`^`U`
@HWI-EAS443:3:94:1163:214#0/1
CAGGCATGAAAACAGAATGGTGGCTAGCACTACGGCA
+HWI-EAS443:3:94:1163:214#0/1
abbbbbbbbabbaabaabaa_b`aaaaaaa_`_a`]`^^
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+HWI-EAS443:3:94:601:967#0/1
aba_ba`a`_`a`aaa_a¥]_a)`a__Z__Y`_`V]_`_V
@HWI-EAS443:3:94:963:2021#0/1
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+HWI-EAS443:3:94:963:2021#0/1
aaa`aaa`aa`a`_`aa][Y[[`_`][Z¥¥UZ^W[VY]]0^_
@HWI-EAS443:3:95:1139:138#0/1
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+HWI-EAS443:3:95:1139:138#0/1
]baa^a`^¥_`[a`^^b_bbS]_bb``_Z_bba_bb_
@HWI-EAS443:3:95:1585:949#0/1
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+HWI-EAS443:3:95:1585:949#0/1
abbaa``b`XX`bbaTaY_^T0^a^[Pa^`b]ab`aaa`X
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+HWI-EAS443:3:96:1362:1414#0/1
`^`0`b`ab`_`[^QJ[]a[`]aX`YDX¥MTaIQMM[BB
@HWI-EAS443:3:96:316:1229#0/1
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+HWI-EAS443:3:96:316:1229#0/1
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+HWI-EAS443:3:97:1256:617#0/1
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+HWI-EAS443:3:97:1319:400#0/1
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+HWI-EAS443:3:97:417:1599#0/1
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+HWI-EAS443:3:97:443:1089#0/1
aab_aa`_b[aabaaaba[aa]^a`a`aaa[¥F]_____`Z
@HWI-EAS443:3:97:478:207#0/1
TGAACAGGCAGCAGAGGCCATGGAGTTGCTAATCAGACT
+HWI-EAS443:3:97:478:207#0/1
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@HWI-EAS443:3:97:956:741#0/1
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+HWI-EAS443:3:97:956:741#0/1
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CAGACAAATGGCTACTACCACCAATCCACTAATCAGGCAT
+HWI-EAS443:3:98:1190:472#0/1
abbbabb_`bbbbVbb_`b_Vaaa``aJ``¥GZ`aa¥a`

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+HWI-EAS443:3:98:154:1246#0/1
]bbUb_]¥abRb¥_ab]Xbaaaa`^`ba[_[VZ¥Xa^`XV
@HWI-EAS443:3:98:388:832#0/1
AGCCTTTGCCGTAGTGGCTAGCCAGCACCATTCTGTTTTCA
+HWI-EAS443:3:98:388:832#0/1
`S`¥Y[_`aa¥TW^ba¥Y`a`aaaaYF¥YL^a[_VZ_^
@HWI-EAS443:3:98:908:1761#0/1
CAGAATGGTGGCTAGCACTACGGCAAAGGCTATGGAA
+HWI-EAS443:3:98:908:1761#0/1
a_aaaa¥bYaVaaa^`aaaaZ^`^]Z`^]Z^`^^^_¥^
@HWI-EAS443:3:99:123:129#0/1
GATTGCTGATTCACAGCATCGGTCTCACAGACAAATGGCT
+HWI-EAS443:3:99:123:129#0/1
`aaaa_ba_a`a`a_a_]aa¥[_[¥X^^_UY^U_YW]
@HWI-EAS443:3:99:1669:1151#0/1
TGGTAGTAGCCATTTGTCTGTGAGACCGATGCTGTGAATC
+HWI-EAS443:3:99:1669:1151#0/1
ab`b__a`__abbb¥^aaaaaa`^Na^_aRZa^__`][
@HWI-EAS443:3:99:844:501#0/1
CAGACAAATGGCTACTACCACCAATCCACTAATCAGGCAT
+HWI-EAS443:3:99:844:501#0/1
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@HWI-EAS443:3:9:1369:398#0/1
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+HWI-EAS443:3:9:1369:398#0/1
aaa_W_X`ZZZaY¥]LRZV[U[VVQSP`ZMM_ZHY]X]
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+HWI-EAS443:3:9:1373:1283#0/1
ab`a``bbb^`^_]a`][`¥_]aa]Y¥^¥^^`ZTR
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+HWI-EAS443:3:32:391:1629#0/1
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@HWI-EAS443:3:63:812:1674#0/1
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@HWI-EAS443:3:11:566:390#0/1
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+HWI-EAS443:3:11:566:390#0/1
a`^_P¥^GJO¥KXQXPRX]K¥YYYVPSUBBBBBBBBBBB
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+HWI-EAS443:3:69:1452:196#0/1
____WY_R]_XRWY¥Yaa[]XYPHSV`S[NHVQYBBBBBBB
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a`aba]aaabaaaa]abbbaa`aaaRa`¥a]Y^a^`a``
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+HWI-EAS443:3:37:1064:628#0/1
`^]X`ba_a`Z]¥]_aaa`]aa`a¥_N]U``WZYZY^U¥
@HWI-EAS443:3:100:1129:1348#0/1
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+HWI-EAS443:3:100:1129:1348#0/1
`aa`_`a`^`Z`^Xa¥``F_V`^]¥^K__K``]^NBBBB
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+HWI-EAS443:3:17:1251:739#0/1
`¥aaaaaaaaaaa_aaa_aa_Y``_a^aa`¥``[aaY`_`¥
@HWI-EAS443:3:17:46:937#0/1
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+HWI-EAS443:3:17:46:937#0/1
ab`````Z]````]¥Y```]a^^^^[^^YXX¥ZQYV[^ZW
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aabaabaaZaba¥`aa`a_a```^Y¥¥^¥W_]¥`ZaXGY
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+HWI-EAS443:3:19:356:905#0/1
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+HWI-EAS443:3:23:237:581#0/1
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Zb`baZZ_b^]bbaZ]`ba`R]aa¥a`JaVbZX]aaX_a^
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+HWI-EAS443:3:25:1209:189#0/1
]¥b_JPa¥[^_b_Z_^`a``bbb``aa`_Q^_Tbaba]__
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+HWI-EAS443:3:25:954:1746#0/1
]a`b_[`_Z]]_abba```aaa^aaaX^``¥S`¥¥`^_a[

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^_bbabbbbbbabbabbbbbbabbabbbNbabaXb_
@HWI-EAS443:3:35:562:1233#0/1
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aa`aaaaaa``aaa^`a___¥[_[Xa^_¥ROYZ¥S[W
@HWI-EAS443:3:38:347:529#0/1
CCCCCTCAAAGCCGAGATCGCGCAGAGACTGGAAAGTGT
+HWI-EAS443:3:38:347:529#0/1
W]bbbb¥Y`R`_T`a^W^¥¥``aWT_]aaa_¥`Q¥]V^TU
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+HWI-EAS443:3:43:955:226#0/1
a_Zb]ZR`_`¥¥^WUYZ]```G[ZbM^U¥¥XULV^`QFTY
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a_`U]]^`V`^_XZ]Z^¥[^YUU[JYT0]YQLKX[QYS
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+HWI-EAS443:3:58:1643:1680#0/1
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@HWI-EAS443:3:58:954:586#0/1
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+HWI-EAS443:3:58:954:586#0/1
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@HWI-EAS443:3:66:658:1196#0/1
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+HWI-EAS443:3:66:658:1196#0/1
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+HWI-EAS443:3:67:1233:40#0/1
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+HWI-EAS443:3:67:917:1076#0/1
a_aa```aaaa`]`]aaa```_aaaa__`aa`_a_Y^`a_
@HWI-EAS443:3:71:1024:455#0/1
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+HWI-EAS443:3:71:1024:455#0/1
ab^b`_bb]`]a`baTaa^a`a¥T_aaba`¥_ba^a`a^
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@HWI-EAS443:3:75:163:99#0/1
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+HWI-EAS443:3:75:163:99#0/1
`a_aa[`a`aaaa`¥^]a¥`¥_`__^XZ]``_]T`_^¥
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CAAAGACACTTTCCAGTCTCTGCGCGATCTCGGCTTTGAG
+HWI-EAS443:3:77:1705:453#0/1
ITOZ_]TXabaZba_abba`a`WW_^I`a^TIXaaZ`T
@HWI-EAS443:3:79:505:532#0/1
GCAAAGACACTTTCCAGTCTCTGCGCGATCTCGGCTTTGA
+HWI-EAS443:3:79:505:532#0/1
`_V_^baaba_Z_baa]Z_`a`a]a`a][^aV`Z]^`[J
@HWI-EAS443:3:81:220:1832#0/1
AGGCCCCCTCAAAGCCGAGATCGCGCAGAGACTGGAAAGT
+HWI-EAS443:3:81:220:1832#0/1
^[DZ]a]a^a_WTHXa`VM` `a_aZRPV_U`^]VYNOUGU
@HWI-EAS443:3:81:98:453#0/1
CTCAAAGCCGAGATCGCGCAGAGACTGGAAAGTGTCTTTG
+HWI-EAS443:3:81:98:453#0/1
aba^aaabaaaa`^`aaaa` `[aV^`]Y_]J¥W`W_^UX
@HWI-EAS443:3:82:303:199#0/1
CAAAGCCGAGATCGCGCAGAGACTGGAAAGTGTCTTTGCA
+HWI-EAS443:3:82:303:199#0/1
aa[_abbbbaaaababab]`aaaa^`]aa^¥b^aa`a`__
@HWI-EAS443:3:84:208:440#0/1
CAAAGCCGAGATCGCGCAGAGACTGGAAAGTGTCTTTGCA
+HWI-EAS443:3:84:208:440#0/1
aUaa_aaXW^V^¥_Q_]¥TG^¥TZ[WZNV¥QUT¥WWWUUH
@HWI-EAS443:3:92:1176:189#0/1
CAGGCCCCCTCAAAGCCGAGATCGCGCAGAGACTGGAAAG
+HWI-EAS443:3:92:1176:189#0/1
`aaaaa_a`_aa`aa`aa`a`a`aZaa^a^W^`^X` `a
@HWI-EAS443:3:93:226:868#0/1
CTCAAAGCCGAGATCGCGCAGAGACTGGAAAGTGTCTTTG
+HWI-EAS443:3:93:226:868#0/1
aaa_abbaab[b`a`aaaa`a_a` `` `__`¥Va¥]_¥__
@HWI-EAS443:3:94:626:719#0/1
GCCCCCTCAAAGCCGAGATCGCGCAGAGACTGGAAAGTGT
+HWI-EAS443:3:94:626:719#0/1
``bbaabaaa_a]`aabaaWba]`_a]a_a`aZ`_^W^¥
@HWI-EAS443:3:97:388:529#0/1
CAGGCCCCCTCAAAGCCGAGATCGCGCAGAGACTGGAAAG
+HWI-EAS443:3:97:388:529#0/1
aa^`_]Y[^`a`_R_X`aaaa`¥¥S]Taaa[^T¥a^X_[^

@HWI-EAS443:3:79:220:1669#0/1
ATCGTCTTTTTTTCAAATGTATTTATCGTCGCTTTAAAT
+HWI-EAS443:3:79:220:1669#0/1
¥V`b¥ba`a`^ba]0[UYW[QYZ^^_X_]Z¥¥_`]a_U[_
@HWI-EAS443:3:89:329:1976#0/1
GACCCGAACAACATGGATAGAGCAGTTAAACTAAAAAGA
+HWI-EAS443:3:89:329:1976#0/1
aabb`]TX`X]¥^ZYS[RW^Y]^TVFMYZ¥VT^F]LZJL^
@HWI-EAS443:3:86:1694:1243#0/1
CGAGCAGTAATCCACAATATCAGGTGCNAGATCCCAATGA
+HWI-EAS443:3:86:1694:1243#0/1
X__Z[Sa^Z^bPN]]Xaaa`ab_aaaOD^bbb¥Z¥abbab
@HWI-EAS443:3:14:709:2041#0/1
GCCTGGGCTCATATACAACAGGATGGGAGCAGTGACCAC
+HWI-EAS443:3:14:709:2041#0/1
aa_aa`aaa`____`aa`__`__`__aVUKW¥`_S¥`UVWW
@HWI-EAS443:3:23:1662:1541#0/1
GCCTCATATACAACAGGATGGGAACAGGGACCACAGANGC
+HWI-EAS443:3:23:1662:1541#0/1
W^WYG^_]aa_¥_¥ZZT[V_aa`YPWUF¥`[GUQZ`ZDRF
@HWI-EAS443:3:27:1650:937#0/1
CCGAGATCGCGCAGAGACTGGAAAGGGTCTTGCAGGCAA
+HWI-EAS443:3:27:1650:937#0/1
`a^VM¥aX[YXY`UKHSQZ_FLYSGXU^]TU¥TSY¥VJI
@HWI-EAS443:3:51:990:1365#0/1
AGAAGCTGCTTTTGGTCTAGTGTGTGCCAGTTGTGAAAAG
+HWI-EAS443:3:51:990:1365#0/1
¥`T^a^_H]^Y]XOYaZXW_XXWZTV_NIW^YVHRWDR^
@HWI-EAS443:3:53:1128:1921#0/1
TGACAAGATTGGTCTTGTCTTTGGCCATTCCATGAGATCC
+HWI-EAS443:3:53:1128:1921#0/1
`b`ZVX¥Xbbbb]aX`^Xbb_H_HHIbRSY]HZ]TFIY_
@HWI-EAS443:3:91:1319:1857#0/1
AAAGTGTCTTTGCAGGAAAGAACACAGATCTTCAGGCAAC
+HWI-EAS443:3:91:1319:1857#0/1
aaa^G^aW`aWQJX`a_a`[^a^aRa____^_W`_]_^XZZ
@HWI-EAS443:3:97:552:462#0/1
GGTCCTCATATACAACAGGATGGGAACAGTGACGACAGAA
+HWI-EAS443:3:97:552:462#0/1
a_U]^`¥`[^a_[]]^`[^_`W^[_`U]¥TETU^__^
@HWI-EAS443:3:1:1032:343#0/1
GACCACAGAAGCTGCCTTTGGTNTAGTGTGTGCCACTTGT
+HWI-EAS443:3:1:1032:343#0/1
aa`¥`^a]aa_¥aa[V`_`V^XDY_`____¥_XQT]T_¥BB
@HWI-EAS443:3:1:1158:1969#0/1
GATCGTCTTTTTTTNAAATGTATTTATAGTCGCTTTAAAT
+HWI-EAS443:3:1:1158:1969#0/1
ab¥ba¥SY]]]¥aWDHa_`VW^_Y[TXGWY]UMXW^BBBB
@HWI-EAS443:3:36:1148:1484#0/1
CTGTTTTCATGCCNGATTAGTGGATTGGTGGGAGTAGCCA

+HWI-EAS443:3:36:1148:1484#0/1
¥¥bbbabbaa`YD]a`a^`abbabbab_b_NSDPTF[BB
@HWI-EAS443:3:49:1430:1881#0/1
GGCCTCATNTACAACAGGATGGGAAGAGTGACCACAGAAG
+HWI-EAS443:3:49:1430:1881#0/1
_PVOP[OPDW_BBBBBBBBBBBBBBBBBBBBBBBBBBBB
@HWI-EAS443:3:64:1737:712#0/1
GCTGCANTGACGGGAGGATCACTTGAATCGCTGCATCTGC
+HWI-EAS443:3:64:1737:712#0/1
aPV`WVDV]^`_XS[VXNPG[U^^YBBBBBBBBBBBBBBB
@HWI-EAS443:3:64:309:1772#0/1
CACTCCCATTCTGCTTCTGGTNGGCTTGCAAATTTTCAAGA
+HWI-EAS443:3:64:309:1772#0/1
a`a_baa`a¥a^_[P^_]NDP]UT^¥]^^[YY]W_[ZX]
@HWI-EAS443:3:6:1021:1866#0/1
ACTAGACCAAAAGCAGCTTCTGTGGTCACTGGTCCCNTCC
+HWI-EAS443:3:6:1021:1866#0/1
VaZaa_[_[a__bb[R]``¥_aVI^Y`[N_XH__GIDDN_
@HWI-EAS443:3:7:283:2003#0/1
AGCAGCTTCTGTGGTCACTGGTCCCATCCTNTTGTATATG
+HWI-EAS443:3:7:283:2003#0/1
aa]aTaVPRVT``LT___YET_¥[_QNGRDIZ¥G^¥BBB
@HWI-EAS443:3:88:781:1653#0/1
CACTGGAGCTAGGATGAGTCNCAATAGTTCTCCTTGCATG
+HWI-EAS443:3:88:781:1653#0/1
a_ZWbba`aab]XY`baa_¥D[b^aa`[aa_GS^aZ`aa`
@HWI-EAS443:3:99:983:1424#0/1
GAACAGTGNCCATAGAAGCTGCTTTTGGTCTAGTGTGTGC
+HWI-EAS443:3:99:983:1424#0/1
[Vaaba]GDPYb]aaaa^[_a¥aa`aHVY`aa_]_`b^a]
@HWI-EAS443:3:57:833:535#0/1
TGTGAATCAGCAATCTGTTCAAGTGCACACACTAGACC
+HWI-EAS443:3:57:833:535#0/1
¥ZHU_Y_````^^Z^Vbbab`[aa_^`^abb_Q_[_aa
@HWI-EAS443:3:65:800:496#0/1
TACATTTGAAAAAAGACGATCAGTAATCCACAATATCAGG
+HWI-EAS443:3:65:800:496#0/1
abbbbbbabbba`^abaaa]_`_¥_`X¥ZUY^WS[]ZX¥W
@HWI-EAS443:3:2:1104:1686#0/1
CAAAAGAGAAATAACGTTCCATGGGGCCAAGGAGCATGTC
+HWI-EAS443:3:2:1104:1686#0/1
a_a¥ba`a_a_bb`^_^aa^ab__[_`Sa¥`SS_`_`T_Ga
@HWI-EAS443:3:30:596:205#0/1
TACATTTGAAAAAAGACGATCAGTAATCCACAAATATCC
+HWI-EAS443:3:30:596:205#0/1
a_ababbbbbbabbabbbba`aaa^`a]a_a`aaaQa[]^
@HWI-EAS443:3:31:980:1713#0/1
AGTTGAATAGCTTAGTGACACCTCCTTGGCCCCAGATGCT
+HWI-EAS443:3:31:980:1713#0/1
]R^[abaaaaabaa_a¥aaaaaa`_`_a`b]VX__[_aaZ

@HWI-EAS443:3:52:682:385#0/1
GACTGGAAAGTGTCTTTGCAGGAAAGAACACAGAGCTTTG
+HWI-EAS443:3:52:682:385#0/1
R]ba]abZZa`aaaaabbL¥`aMaaaUa`^Z_a_`[a`_Z
@HWI-EAS443:3:90:1448:358#0/1
CATCTGCCTAGTCTGATTAGCAACCTCCATGGCCCTTTGC
+HWI-EAS443:3:90:1448:358#0/1
a`b`bbbabaab_bbbbbaaaba^`a_Z_b_aaGZbaaa^
@HWI-EAS443:3:42:318:1559#0/1
TTGAAAAAAGACGATCAGTAATCCACNATATCAGGTACA
+HWI-EAS443:3:42:318:1559#0/1
^]a^^aX^ZX_`_b`SY[¥QN`RFNWWDZ¥¥YROX]KRZZ
@HWI-EAS443:3:25:388:1002#0/1
CATTCTGTTTTCATGCCTGATTAGTGGATTGGGGTAGGA
+HWI-EAS443:3:25:388:1002#0/1
`Z_^_bbaa_`a`_`_`_W_`U¥^`_WaaaZGYBBBBBB
@HWI-EAS443:3:49:472:1027#0/1
GCTGGCTAGCACTACGGCAAAGGCTATGGAAGAGATGGGT
+HWI-EAS443:3:49:472:1027#0/1
Z]_a¥ZQ¥^PSYa`S__a_aZWYU^]ZX]SWFV]UYa`BB
@HWI-EAS443:3:65:1329:1541#0/1
ATACATTTGAAAAAAGACGATCAGTAATCCCAATATAA
+HWI-EAS443:3:65:1329:1541#0/1
a`¥a`abaS^a`a[`a^^_a_^TNTSWTBBBBBBBBBBBB
@HWI-EAS443:3:74:1209:1685#0/1
GATGGGAACAGGGACCACAGAAGCTGCTTTTGGTCTAGGG
+HWI-EAS443:3:74:1209:1685#0/1
XW`¥ZZU_b_ND[b]`WZXb^]a¥_bZ^`ZT_GTGY¥DP
@HWI-EAS443:3:42:1545:167#0/1
GCTGTAATCAGCAATCTGTTCAAGTGGCACACACTAGA
+HWI-EAS443:3:42:1545:167#0/1
``ababb`aa]_aaa^`aT]_____Y_`Za]_X__U_Y¥
@HWI-EAS443:3:47:1764:253#0/1
GAGGCCTCATATACAACAGGATGGGAACAGTGACCAAAG
+HWI-EAS443:3:47:1764:253#0/1
aS`]a`TKYQ_`U^NU_Y^]XXNX[ZTUQ^WN¥RDKRGUW
@HWI-EAS443:3:59:1751:1076#0/1
CGGGCCTCATATACAACAGGATGGGAACAGTGACCATAGA
+HWI-EAS443:3:59:1751:1076#0/1
abbbabbabbabb`baaaaa`abbbaa`bb_[a_YQFX_W
@HWI-EAS443:3:73:1292:303#0/1
CACTAGACAAAAGCAGCTTCTGTGGTCACTGTTGAATC
+HWI-EAS443:3:73:1292:303#0/1
a`U]YRHW]_NUYRSU^¥V¥[YPR`_`Y_N``[UDDDV]G
@HWI-EAS443:3:21:1668:1152#0/1
GATTTTGGTCTAGTGTGTGCCACTNGTGAACAGATTGCTG
+HWI-EAS443:3:21:1668:1152#0/1
¥¥_ZbbbbY¥Y[b^bab`b`]ba[DT^aa]R`a_aWROaa
@HWI-EAS443:3:34:563:508#0/1
GCTGNCTAGCACTACGGCAAAGGCTATGGAACAGATGGGT

+HWI-EAS443:3:34:563:508#0/1
aa`[DY`^`^aa`^a]a]_P]aa`[^Y[XEVOYZBBBBBBB
@HWI-EAS443:3:71:1566:335#0/1
CAAAAGCAGCTTCTGTGGNCACTGTTCCCATCCTGTTGGA
+HWI-EAS443:3:71:1566:335#0/1
W_bbbbbYb_aa[bX_WDU¥Sa_Qaa_b_NWba]`XWGU
@HWI-EAS443:3:13:1205:309#0/1
GCTCCCGTTCGCTTCTGGTAGGCCTGCAAATTTTCAAGAA
+HWI-EAS443:3:13:1205:309#0/1
aab]^`b`a`^`]aa_a`¥^`a_[]^a`_a`_`^`_]a^_
@HWI-EAS443:3:18:1150:60#0/1
GTGGGGACAGTGACCACAGAAGCTGCTTTTGGTCTAGTGT
+HWI-EAS443:3:18:1150:60#0/1
aVaaXa__`a¥a[^^_U^`SV_V¥_W¥Z¥¥_¥GQ¥VUU^N
@HWI-EAS443:3:26:1059:1234#0/1
GACCGATGCTGTGAATCAGCAATCTGTTCAAGAGGCAA
+HWI-EAS443:3:26:1059:1234#0/1
ab^b`bKSRRaQRa]_UaY_aYaa`aa`S__U_aHa]GaO
@HWI-EAS443:3:33:1328:878#0/1
GGGGGCCAAGGAGGTGTCACTAAGCTATTCAAATGGTGCA
+HWI-EAS443:3:33:1328:878#0/1
a¥`^`^`[```__aa[a[aa^aaaa^`_`^Z_UDV`XU]UT
@HWI-EAS443:3:42:722:917#0/1
GGGGCCTCATATACAACAGGATGGGAACAGTGACCCAGAG
+HWI-EAS443:3:42:722:917#0/1
ab^]]`aa_XW`Z`]SXV][FS]`Z^YMMZSTVZWF PDT¥
@HWI-EAS443:3:5:1609:1278#0/1
GACGTTATTTATCTTTTGAGCTTCTTGTATAGTTTAACTG
+HWI-EAS443:3:5:1609:1278#0/1
aXab¥b`abbIb_abaa^aaSab``bbaab`a^ba`aYaa
@HWI-EAS443:3:60:382:1560#0/1
GGGGCCTCATATACAACAGGATGGGAACAGCGACCACAGA
+HWI-EAS443:3:60:382:1560#0/1
a`ZU`^Xa^[[[Z]`W[V¥W_a¥Y[ZU^^YZ[SYYZ[WU
@HWI-EAS443:3:69:1191:1791#0/1
GGGGCCTCATATACAACAGGATGGGAACAGCGACCACAGA
+HWI-EAS443:3:69:1191:1791#0/1
KW¥`¥Z]`a[`b`aR¥]`b]¥WWW^a`a_]0`¥XXRT``B
@HWI-EAS443:3:70:992:1339#0/1
CTGTTTTCATGCCTGATTAGTGGATTGGTGGGAGTAGCCC
+HWI-EAS443:3:70:992:1339#0/1
aa_UXOR]¥WW^MY^`^ZYXJ^^BBBBBBBBBBBBBBBBB
@HWI-EAS443:3:78:265:1003#0/1
AGCATGTACCACCTGCCTAGTCTGATTAGCAACCTCCATG
+HWI-EAS443:3:78:265:1003#0/1
¥`Z]Z^LXXR¥JRX_]ZRWTYaV[X^SbaaZOZ][XQZT[
@HWI-EAS443:3:81:1593:278#0/1
CACTTGTGAACAGATTGCTGATTCAAAGCATCGGTCTCAA
+HWI-EAS443:3:81:1593:278#0/1
][WYOb`S[[`_]_^WWYQXaaaRHYb^Y[SYWMRTL TG

@HWI-EAS443:3:81:1691:105#0/1
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+HWI-EAS443:3:81:1691:105#0/1
a#b`__`_ab_`a#`a_aaaaaa`a^`¥Y^L¥a¥Y_¥¥_Y
@HWI-EAS443:3:92:1235:454#0/1
GGCCGAGATCGCGTAGAGACTGGAAAGTGTCTTTGCAGGA
+HWI-EAS443:3:92:1235:454#0/1
]WTR[¥[QWWTMDP¥WZOVR¥VZ_RQMXKXOBBBBBBBB
@HWI-EAS443:3:93:1770:879#0/1
CGGGGACCCGAACAACATGGATAGAGCAGATAAACTATAC
+HWI-EAS443:3:93:1770:879#0/1
a`a`_`¥¥_b_V[aaY]a`Xa[]_YR[LUHUYa_VTTZXB
@HWI-EAS443:3:96:700:2046#0/1
NACTTGAATCGCTGCATCTGCACTCGCATTGCTTCTGGT
+HWI-EAS443:3:96:700:2046#0/1
DL SVUSUXVWURUWVWWWNVURUQSKQUUJTNVUSVBBBB
@HWI-EAS443:3:9:181:1333#0/1
ACGGGTCCCATTCCTTTAGGGCATATTGGACAAAGCG
+HWI-EAS443:3:9:181:1333#0/1
aaQZ_Xaab_```a_S___¥]NRR__VX__^^aSa__XX_
@HWI-EAS443:3:100:65:1528#0/1
GCCTCATATAACAACAGGATGGGAACAGTGACCACAGCAGC
+HWI-EAS443:3:100:65:1528#0/1
]_¥^^^b^_```aaabaR_]aa_``LU]¥VQZ¥YH[_B
@HWI-EAS443:3:12:792:1759#0/1
AGATCCCAATGATATTTGCTGCAATGACGAGAGGATAATT
+HWI-EAS443:3:12:792:1759#0/1
¥]a_a]S`U[a_URZ_WY]N[W_URS^__YBBBBBBBBBB
@HWI-EAS443:3:16:337:1662#0/1
GAGCCCAATAGTTCTCATTGCATGTACCATCTGCCTAGT
+HWI-EAS443:3:16:337:1662#0/1
ZVQUXWa[`_[RRa`U_¥_ba[abaMb]^`^b]aa`aa][
@HWI-EAS443:3:20:49:1120#0/1
AAACGCCTACCAGAAGCGAATGGGAGTGCAGATGCAGCGA
+HWI-EAS443:3:20:49:1120#0/1
_^`_SYa]UQa[RWY[]QRT]aa`YXR`¥U]RTR_Y`^ZJ
@HWI-EAS443:3:24:1732:66#0/1
GATGGTCTTTTTTTCAAATGTATTTATCGTCGCTTTAAAT
+HWI-EAS443:3:24:1732:66#0/1
aaVP`WL_aaaaaa0]]a^[N¥a``YONWZVYU_YaXQ¥Z
@HWI-EAS443:3:27:548:1603#0/1
GTGTCTTTGCAGGAAAGAACACAGATCTTGAGGCTCCCAT
+HWI-EAS443:3:27:548:1603#0/1
]M[]¥_QZWaZZ0[^a]_^[]`a_V^VY¥TaYWZ`_MGLLO
@HWI-EAS443:3:30:1375:818#0/1
ACAGACTGGAAAGTGTCTTTGCAGGAAAGAACACAGATTT
+HWI-EAS443:3:30:1375:818#0/1
`a^0__aa^a^JZa`]ab^^`a¥Y`a`a___]_^`PTTIT
@HWI-EAS443:3:34:1545:1529#0/1
TGGGCCTCATATAACAACAGGATGGGAACAGTGACCAGAGA

+HWI-EAS443:3:34:1545:1529#0/1
U^^S`abbbabb`Y¥]aabaa]SZ`^^UTL[VNGVG`BB
@HWI-EAS443:3:35:1189:1901#0/1
CGCTGCACTACGGCAAAGGCTATGGAACAGATGGCTGGAT
+HWI-EAS443:3:35:1189:1901#0/1
TTEVababb_¥Wa`U`abab]aa]`aP`b_TWT¥X¥WQ
@HWI-EAS443:3:3:351:1928#0/1
TAGGCAGATGGTACATGCAATGAGAACTATTGGGACGAAT
+HWI-EAS443:3:3:351:1928#0/1
]_WHR^`Z¥_WL^aaR`_^aZ]P[`bU`^^aWQFVBBBBB
@HWI-EAS443:3:43:792:83#0/1
CGCGCAGAGACTGGAAAGTGTCTTTGCAGGAAAGAAAACA
+HWI-EAS443:3:43:792:83#0/1
aaabaabbbb`bbbababab_aaba_V_ab`aab`aWa
@HWI-EAS443:3:52:93:823#0/1
GACCCGAACAACATGGATAGAGCAGTTAACTATACGAGA
+HWI-EAS443:3:52:93:823#0/1
`Yabaa`]aa]`][0[`¥aRa¥¥[Q[Y]^Z]X]Z
@HWI-EAS443:3:59:1535:90#0/1
CGCGCAGAGACTGGAAAGTGTCTTTGCAGGAAAGAAAACA
+HWI-EAS443:3:59:1535:90#0/1
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@HWI-EAS443:3:61:1407:1616#0/1
GTCCCCATTCCCATTAGGGCATTGGACAAAGCGGCTA
+HWI-EAS443:3:61:1407:1616#0/1
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@HWI-EAS443:3:62:1118:638#0/1
TTGAAAATTTGCAGGCCTACCAGAAGCGAATGGGAGGGCA
+HWI-EAS443:3:62:1118:638#0/1
^[RH`_`[WaaaYbU]PW¥a_Q[_¥`[]ZZZ]_VSVFW_S
@HWI-EAS443:3:65:995:691#0/1
AAGGGCACTCCCATTCGCTTCTGGTAGGCCTGCAAATTTT
+HWI-EAS443:3:65:995:691#0/1
aaa_[a_a`_Y_]_aa_¥^YWW^^]X[W`^^TK`^^_
@HWI-EAS443:3:69:478:357#0/1
AATAGTTCTCATTGCATGTACCATCTGCCTAGTCTGCTTA
+HWI-EAS443:3:69:478:357#0/1
X__Q_P[a`a`a_Z[_[]`^Z^a_W^_[T¥DVZ__PX]
@HWI-EAS443:3:70:435:1112#0/1
GGCTCTCATGGAATGGCTAAAGACAAGACCAATCTTTTCA
+HWI-EAS443:3:70:435:1112#0/1
abbab]bVaZa`]`_aZbb^U[a^TI¥P]K][¥SYG[XN
@HWI-EAS443:3:72:276:748#0/1
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+HWI-EAS443:3:72:276:748#0/1
aaaVTZZXY[aaaa_aa_Za^aVY`__Z¥W]_QX[NFVPU
@HWI-EAS443:3:73:82:2006#0/1
TGCACCTGATATTGTGGATTACTGATCGTCTTTTTTCAAA
+HWI-EAS443:3:73:82:2006#0/1
VabKbbaaYX]^bbIa`WU]bY^^^ab^a]]aaaaba[

@HWI-EAS443:3:82:396:1120#0/1
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+HWI-EAS443:3:82:396:1120#0/1
ababbbbbaaaaaba`_a_a__aa`a_^HYX_____`J_T
@HWI-EAS443:3:8:1791:1657#0/1
AATGTTGTCACCTCTGACTAAGGGAATTTTAGGATTTGTG
+HWI-EAS443:3:8:1791:1657#0/1
^baS_¥`Y`]YYWRRX`_[a_UX¥TSGSJ`_NNOV[SW
@HWI-EAS443:3:91:126:139#0/1
GTGGGCCACTTGTGAACAGATTGCTGATTCACAGCATCGG
+HWI-EAS443:3:91:126:139#0/1
aH[GV]YQVLZRU`]XVXVVYRPPWUSQYVXVVVRYVOXY
@HWI-EAS443:3:96:1171:336#0/1
GGGATCTTGCACCTGATATTGTGGATTACTGATCGTATTT
+HWI-EAS443:3:96:1171:336#0/1
H_a`_a_V[baVX_ba`¥aa`I``_bba]SabaVbZH`aa
@HWI-EAS443:3:97:294:397#0/1
CAGGGACTGGAAAGTGTCTTTGCAGGAAAGAACACAGATC
+HWI-EAS443:3:97:294:397#0/1
S¥_YYab]ZJaXU_a`Q`b]]`a]bbUSZRZaS_ZP_`^VQ
@HWI-EAS443:3:12:163:1126#0/1
GGGGAGTGCAGATGCAGCGATTCAAGTGATCCTCTCNTCA
+HWI-EAS443:3:12:163:1126#0/1
``aba_[baa`_a_ab]`_]][¥^)`_a]`aaa_[DT`_
@HWI-EAS443:3:69:1337:1394#0/1
CGGGCCTCATATACAACAGGATNGGAACAGTGACCACAGA
+HWI-EAS443:3:69:1337:1394#0/1
aa[aa^^a`_aa`__`a[`¥UTDT`_UOKXLXZTSXT[WB
@HWI-EAS443:3:100:471:889#0/1
GGGCCTCATATACAACAGGATGGGAAGAGTGACCACAGAA
+HWI-EAS443:3:100:471:889#0/1
_`QQSWaUabb`¥T^`[_QTabbbXZGZ]¥QYPS_aBBBB
@HWI-EAS443:3:100:764:1193#0/1
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+HWI-EAS443:3:100:764:1193#0/1
`____`Z^Z]SYLXa_X^¥Z[¥V[V^W¥ZV`_NZXVX^NBB
@HWI-EAS443:3:10:1036:1699#0/1
GAGACCGATGCTGTGAATCAGCAATCTGTTCAAAAGTGGC
+HWI-EAS443:3:10:1036:1699#0/1
abaa_Yaaaa`_aR`a`¥G][V[____`_aW¥MZG¥_`R^VU
@HWI-EAS443:3:11:1094:779#0/1
CTTGCCACCTCTGACTAAGGGAATTTTAGGATTTGTGTTC
+HWI-EAS443:3:11:1094:779#0/1
`b`_JRWa¥babb`_F_b[a`aa^aaaa`b]`a`b]a`ab
@HWI-EAS443:3:11:241:1471#0/1
ACTAGACCAAAAGCAGCTTCTGTGGGCACTGTTCCCATCC
+HWI-EAS443:3:11:241:1471#0/1
a]¥L_`^`_QU¥WX¥a¥^W_`]]VUZFVY[Y_][Z^[SSY[
@HWI-EAS443:3:11:829:976#0/1
CACTCCCATTGCTTCTGGTAGGCCTGCAAATTTTAAAGA

+HWI-EAS443:3:11:829:976#0/1
aabaa)`abbabaaaa^]¥aa_`[^`_`_]`aaa`__a_
@HWI-EAS443:3:12:973:1960#0/1
GAAAGATGACCTTCTTGAAAATTTGCATGCCTACCAGAAG
+HWI-EAS443:3:12:973:1960#0/1
_S`aa¥baabbX`S]baaaaa^][_HTZW[][_[_U_¥
@HWI-EAS443:3:13:166:974#0/1
GACCGATGCTGTGAATCAGCAATCTGTTACAAAATGGCAC
+HWI-EAS443:3:13:166:974#0/1
¥_`abab[b`]bSVRUQO_RXU`aa`YaU)`GDDY``aa
@HWI-EAS443:3:13:199:1796#0/1
GTTGAATAGCTTAGTGACACCTCCTTGGCCCGATGGAACG
+HWI-EAS443:3:13:199:1796#0/1
aUIPUY_UL]W¥]LS`]RX^_SUJQQTUUPFPPTQBBBBB
@HWI-EAS443:3:13:540:137#0/1
GCCTCATATACAACAGGATGGGAACCGTGACCACAGAAGC
+HWI-EAS443:3:13:540:137#0/1
a`SX]a`a`a`___¥Y]RY_X^¥`T[LSQ¥SLUQWNWRBB
@HWI-EAS443:3:13:958:1575#0/1
CAGTGACCACAGAAGCTGCTTTTAGTCTAGTGTGTGCCAC
+HWI-EAS443:3:13:958:1575#0/1
abb^bbbbbababb_aabaaabaa_^bab__X¥S_^`a`_
@HWI-EAS443:3:14:1116:271#0/1
GGTCACTGTTCCCATCCTGTTGTATATGAGGCGCATGCAA
+HWI-EAS443:3:14:1116:271#0/1
_TVUUSMXMLWWWVZXZ^TTZLQLYBBBBBBBBBBBBBBBB
@HWI-EAS443:3:16:1281:660#0/1
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+HWI-EAS443:3:16:1281:660#0/1
aXSV^Y`_ZZ_IZ¥KKNURU[Q]BBBBBBBBBBBBBBBBBB
@HWI-EAS443:3:16:167:1432#0/1
GAATCGCTGCATCTGCACTCCCATTCGCTTCTGGAAGGCC
+HWI-EAS443:3:16:167:1432#0/1
````[JTYbU`[`bbYbbb^XWHHOY[[`_R¥G]Y]L]
@HWI-EAS443:3:16:897:1965#0/1
AGAAGCTCAAAAGAGAAATAACGTTCCATGAGGCCAAGGA
+HWI-EAS443:3:16:897:1965#0/1
a`aaa¥MU__`_`_]R]^a[FXU^Z]^YX]XXXXZ]]OV
@HWI-EAS443:3:17:1468:106#0/1
GGGCCTCATATACAACAGGATGGGAAGAGTGACCACAGAA
+HWI-EAS443:3:17:1468:106#0/1
`a]VOLPaaWTTUSU][abZVX`V_QGFOS__VBBBBBBB
@HWI-EAS443:3:17:774:1723#0/1
ACAAGATTGGTCCTGTCTTTAGCCATTCCATGAGAGCCTC
+HWI-EAS443:3:17:774:1723#0/1
abbYb_a_OIZ[FR]_]_^`U]Ya_¥R`aW_YGTHW^ZHZ
@HWI-EAS443:3:18:744:995#0/1
GCGACGATAAATACATTTGAAAAAAGACGATCAGAAATC
+HWI-EAS443:3:18:744:995#0/1
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@HWI-EAS443:3:19:122:251#0/1
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+HWI-EAS443:3:19:122:251#0/1
aabbab_babaaaV`a`aaaa`Taa`]^^]W`BBBBBBB
@HWI-EAS443:3:19:1280:1548#0/1
AATCAGACTAGGCAGATGGGACATGCAATGAGAACTATTG
+HWI-EAS443:3:19:1280:1548#0/1
aZXQ^abWS]Y^XX`X`X¥F_Z]_ZU]_a_U[[__aa[QY
@HWI-EAS443:3:19:347:691#0/1
GATATTGTGGATTACTGATCGTCTTTTTTTAAAATGTATT
+HWI-EAS443:3:19:347:691#0/1
]XSY`ZNGPNH`XZa`W[¥^YSUW`a¥¥KTD^P¥GWN[[B
@HWI-EAS443:3:1:1517:416#0/1
AGATCCCAATGATATTTGGTGAATGACGAGAGGATCACT
+HWI-EAS443:3:1:1517:416#0/1
aaaa_a^`aaaa`b_b]F]aa]aaa__a_aa_a_^¥`BB
@HWI-EAS443:3:1:1546:946#0/1
GGAACAGTGACCACAGAAGCTGCTTTTTGTCTAGTGTGTG
+HWI-EAS443:3:1:1546:946#0/1
```Ua\_XJZba`¥NQ]\_Za\_[PF][b^G^¥VaXR[`aBBB  
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+HWI-EAS443:3:1:1734:539#0/1  
a]a\_`a]a¥\_`]Y^U\_`]SVU\_\_VSJFJ^U]^`\_XZBBB  
@HWI-EAS443:3:1:656:734#0/1  
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+HWI-EAS443:3:1:656:734#0/1  
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GCAGGTGGTACATGCAATGAGAACTATTGGGACTCATCCT  
+HWI-EAS443:3:1:982:567#0/1  
\_YVZFYVQTN¥\_]RY\_`]^WLSX^]aT`]`^WBBBBBBB  
@HWI-EAS443:3:20:1318:319#0/1  
ATCCCAATGAAATTTGCTGCAATGACGAGAGGATCACTTG  
+HWI-EAS443:3:20:1318:319#0/1  
U¥OW`b]YaYF\_ba\_UZ]]]Ta\_a\_RF`Q]¥^`\_\_NN¥aQa  
@HWI-EAS443:3:21:1778:663#0/1  
ATACAACAGGATGGGAACAGTGAACACAGAAGCTGCTTTT  
+HWI-EAS443:3:21:1778:663#0/1  
a\_aa`^X[a`XTX\_\_WYXY\_WXUBBBBBBBBBBBBBBBBBB  
@HWI-EAS443:3:21:541:1138#0/1  
TACATTTGAAAAAAGACGATCAGTAAACCACAATATCAG  
+HWI-EAS443:3:21:541:1138#0/1  
\_b\_`^\_\_¥``\_b^aVZa`[a¥WYaZ¥ZHNUaQ`Y¥\_`^NUZ  
@HWI-EAS443:3:22:507:1845#0/1  
CTGTTTTCATGCCTGATTAGTGGATTGGTGTAGTAGCCA  
+HWI-EAS443:3:22:507:1845#0/1  
a`aX^a`ba``aaa`\_a\_a`¥\_Wa^^^\_U^\_R`WO\_Y\_]\_  
@HWI-EAS443:3:23:1542:671#0/1  
TGTGAATCAGCAATCTGTTCAAGGGGCACACACTAGAC

+HWI-EAS443:3:23:1542:671#0/1  
Y^`¥0]bba\_X¥ab\_aaab]TJX\_^M¥^FWY\_[YNW]^a^  
@HWI-EAS443:3:23:1731:2012#0/1  
AGAGAAATAACGTTCCATGGGGCCAAGGAGGGGTCCTAA  
+HWI-EAS443:3:23:1731:2012#0/1  
`ab]a\_\_bb\_S`H[aV`ab^\_¥^Ha¥\_UMSKDZMTY\_\_`V  
@HWI-EAS443:3:24:1010:584#0/1  
CGCGCAGAGACTGGAAAGTGTCTTTGGAGGAAAGAACACA  
+HWI-EAS443:3:24:1010:584#0/1  
`b`[\_`aW\_Y[b\_WUT\_¥T\_\_\_aa]¥FPX\_`aa`\_Z]aQ`  
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AAAGCAGCTTCTGGGGTCACTGTTCCCATCCTGTTGTATA  
+HWI-EAS443:3:24:1479:1375#0/1  
¥[QWVaaZb[LR^F]^T`XGY¥^`¥RO\_\_^FRXYa\_^aa¥  
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+HWI-EAS443:3:24:1610:1064#0/1  
^^^``[M[YUYa^T\_^X¥^a`]a[Z¥\_aTG[`]WD¥aVa^  
@HWI-EAS443:3:24:1682:668#0/1  
CAGTGACCACAGAAGCTGGTTTTGGTCTAGTGTGTGCCAC  
+HWI-EAS443:3:24:1682:668#0/1  
abb[b`ZI\_T]baKaRa[F[`a¥0\_¥L[]aOHQ¥OYFFXG  
@HWI-EAS443:3:24:442:1223#0/1  
CATGGAGGTTGCTAATCAGACTAGGCAGATGGGACATGCA  
+HWI-EAS443:3:24:442:1223#0/1  
ab]b]]`aH]Y][Y]YTX`[XU\_^^[LWNRT[FRNX][WX  
@HWI-EAS443:3:24:442:1952#0/1  
CCAATAGTTCTCATTGCACGTACCATCTGCCTAGTCTGAT  
+HWI-EAS443:3:24:442:1952#0/1  
a`[]OZ]UXVXaa]¥UGUH[Va]a`\_\_TO[RP]¥G`PZ^S  
@HWI-EAS443:3:25:714:1128#0/1  
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+HWI-EAS443:3:25:714:1128#0/1  
\_a`aa\_\_aRa[ZUU\_a\_KU^ZT¥¥\_PM¥FPV[FXV][JQSV  
@HWI-EAS443:3:27:1171:1986#0/1  
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+HWI-EAS443:3:27:1171:1986#0/1  
`[aaa]a`\_`a^`\_[^FLTX[U¥]\_^Q]RYZRG]R^¥R]]  
@HWI-EAS443:3:27:401:1356#0/1  
CTAGGATGAGTCCCGATAGTTCTCATTGCATGTACCATCT  
+HWI-EAS443:3:27:401:1356#0/1  
`\_WRW[``\_WY\_`\_¥UZXX0[`aa^QWabaaPRa``\_[ZP  
@HWI-EAS443:3:29:1137:443#0/1  
AGGCCATGGAGGGTGCTAATCAGACTAGGCAGATGGTACA  
+HWI-EAS443:3:29:1137:443#0/1  
aa\_]\_]`aa\_aZF]a`QZ`\_¥\_\_a¥XRS\_¥[\_Z¥`aWWWB  
@HWI-EAS443:3:29:22:860#0/1  
GCCCCGTGGAACGTTATTTCTCTTTTGAGCTTCTTGTATA  
+HWI-EAS443:3:29:22:860#0/1  
\_\_ab`XP\_V\_`^`^¥X¥^^¥^¥^``]YMZX^^a[UZQYV¥

@HWI-EAS443:3:2:1624:347#0/1  
ATGCCCTAAATGGGAATGGGGACCCGAAGAACATGGATAG  
+HWI-EAS443:3:2:1624:347#0/1  
abb\_\_aaaa\_aa[Y`UX\_`^^WWX`VWFY]H]^Y][R^B  
@HWI-EAS443:3:2:943:1714#0/1  
CATATACAACAGGATGGGAACAGTGACCACAGAAGATGCT  
+HWI-EAS443:3:2:943:1714#0/1  
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@HWI-EAS443:3:30:1699:1075#0/1  
ATTCTGTTTTTCATGCCTGATTAGTGGATTGGTGGGAGTAG  
+HWI-EAS443:3:30:1699:1075#0/1  
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@HWI-EAS443:3:31:1247:907#0/1  
CTTGGATCGCTGCATCTGCACTCCCATTGCTTCTGGTAG  
+HWI-EAS443:3:31:1247:907#0/1  
[`abbb¥[a¥[WWWaa`^aU```¥Y¥\_Z^a```^YFYPZP  
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@HWI-EAS443:3:32:707:1669#0/1  
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+HWI-EAS443:3:32:707:1669#0/1  
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+HWI-EAS443:3:33:1074:470#0/1  
aa`Z`b\_\_`aba``babbbaZbbabaX\_Q¥`PR\_H]LDXX  
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GATGCTGTGAATCAGCAATCTGTTCCACAAGCGGCACACAC  
+HWI-EAS443:3:33:1650:644#0/1  
aaa^¥¥\_¥\_Ua\_X[`R\_X¥Z`[Y[R¥RZZ]VQPHUWWUY  
@HWI-EAS443:3:33:447:1059#0/1  
ATGGGGCCAAGGAGGTGTCCTAAGCTATTCAACCGGTGC  
+HWI-EAS443:3:33:447:1059#0/1  
Y¥b\_RVa\_¥X\_^^`¥V]\_abb]`Z\_``\_`\_]`]]\_RLWVO[  
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ab\_¥XQ\_^aT\_aa^[Z[ZHT¥LaX¥aa\_VGRNS[T¥YY^U  
@HWI-EAS443:3:34:114:214#0/1  
AGAAGCTGCTTTTGGTCTCGTGTGTGCCACTTGTGAACAG  
+HWI-EAS443:3:34:114:214#0/1  
¥0]W]`^R[Q^^YX¥QTWGXVOLWN[0[¥[BBBBBBBBBB  
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GCCTCATATACAACAGGATGGGAACAGTGAGCACAGAAGC  
+HWI-EAS443:3:34:1702:320#0/1  
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+HWI-EAS443:3:34:299:498#0/1  
abbba`bbbZaaaba`bYH^abbaaaaa]\_a\_R¥L\_`¥  
@HWI-EAS443:3:35:1422:376#0/1  
TGACCACAGAAGCTGCATTTGGTCTAGTGTGCCACTTG  
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aabababba`ba^aa`aba`aa\_``aaYa\_a\_aaX`Y\_^`  
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ACTAGACCAAAACCAGCTTCTGTGGTCACTGTCCCATCC  
+HWI-EAS443:3:35:1781:62#0/1  
^^aba¥I^]abWHU]a`\_]N^[`ZZ\_Y¥[[RNYWXNOLT  
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CTGTTCACAAGTGGCACACACTAAACCAAAAGCAGCTTCT  
+HWI-EAS443:3:36:1118:1425#0/1  
M\_Q^`¥X\_b`b]]X\_^` [¥ba[^bab\_¥¥¥]`^Z\_Z\_aa  
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CATTGCTTCTGGTAGGCCTTCAAATTTTCAAGAAGGTCA  
+HWI-EAS443:3:36:120:870#0/1  
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+HWI-EAS443:3:36:600:1966#0/1  
a^aZZ\_Ua`SZ^TS^^^ [¥^^\_QQNXOFR`PUZRR[aVV^  
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AGCCATATGTCTGTGAGACCGATGCTGTGAATCAGCAATC  
+HWI-EAS443:3:37:1726:488#0/1  
abb\_]Vbaba^baY[S`^\_Ua¥a\_]a\_WLH^^Ya¥P``UG  
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+HWI-EAS443:3:37:50:525#0/1  
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+HWI-EAS443:3:37:913:727#0/1  
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@HWI-EAS443:3:37:920:1195#0/1  
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+HWI-EAS443:3:37:920:1195#0/1  
X`^]^[`bab]^¥\_Y`\_^XU`aa^`QO]HX^`b¥^^`\_a  
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CAGCCATCTGTTCCATAGCCTTTGCCGTAGTGGTAGCCAG  
+HWI-EAS443:3:38:1219:1482#0/1  
ab[Zabb^aY^]PV^WZ^[UYV[FSYBBBBBBBBBBBBBB  
@HWI-EAS443:3:38:1226:72#0/1  
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+HWI-EAS443:3:38:1226:72#0/1  
`[baU]^U^ZT]S`a`[a]aa`a]X[STDW[PET\_[\_]\_R



@HWI-EAS443:3:38:1508:1480#0/1  
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+HWI-EAS443:3:38:1508:1480#0/1  
[abaVUbbabbaaaa^`\_Y^]a]bbb`b`aZbbGba\_`Y  
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+HWI-EAS443:3:38:1666:37#0/1  
aaWU¥^ab\_ZQFYPP`T^[^\_X`^^^ZVPJPPQNFSSS  
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+HWI-EAS443:3:38:855:1289#0/1  
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+HWI-EAS443:3:38:894:725#0/1  
aaaaaaa\_aa\_`a^`aa¥\_\_`^]a^\_\_W\_¥UGWW¥¥WW^H  
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+HWI-EAS443:3:3:1160:1584#0/1  
\_[JRb^aa^]UaZbUbbUbZHbb`Sba^``¥Z\_QYZaQa\_  
@HWI-EAS443:3:40:294:1340#0/1  
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@HWI-EAS443:3:43:1052:446#0/1  
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+HWI-EAS443:3:43:1052:446#0/1  
^^`^`a`^aRZPaaX^`X\_aaaaXV]`U[`]PTUZ[¥N]  
@HWI-EAS443:3:44:1105:416#0/1  
TTCCCATCTGTTGTATATGAGGCCAATGCAACTGGCAAG  
+HWI-EAS443:3:44:1105:416#0/1  
aZ]a00TSaaaVa^`]aZZXZa]`aG^aaY\_UOV\_a¥]]`  
@HWI-EAS443:3:44:1655:622#0/1  
TGCAACTGGCACGTGCACCAGTTGAATAGCTTAGTGACAC  
+HWI-EAS443:3:44:1655:622#0/1  
UQVU\_a`[WWUHW\_a\_X\_`T`XY`¥ZPYVW¥¥Y^UV¥SYU  
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+HWI-EAS443:3:44:569:672#0/1  
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+HWI-EAS443:3:44:611:939#0/1  
VW¥Ta\_ZI^S[`aaa[`b`bb^Xaaaaa^]\_aa`S`[a[a  
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+HWI-EAS443:3:44:726:1564#0/1  
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+HWI-EAS443:3:45:500:860#0/1  
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+HWI-EAS443:3:46:1017:1109#0/1  
aa``^]\_T¥)`¥Y^`\_ZVSV\_^^^XQX¥¥¥U^^[UY[SS  
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CAGCAATCTGTTCCACAAGCGGCACACACTAGACCAAAAGC  
+HWI-EAS443:3:46:1180:1757#0/1  
`ZX`a)`^a`a\_U`a\_aaG[^^b\_aa\_a\_\_ZS\_Qa`a[¥V  
@HWI-EAS443:3:46:777:556#0/1  
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+HWI-EAS443:3:46:777:556#0/1  
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+HWI-EAS443:3:46:803:1634#0/1  
]V\_a[`aSSUW`RUROH[^¥SaTSW]a`¥PXaTGJ¥FT^P  
@HWI-EAS443:3:47:1287:1220#0/1  
CACTAAACTATTCAACTGGTGCAC TTGCCAGTTGCATGGG  
+HWI-EAS443:3:47:1287:1220#0/1  
^abab```bbbaabbabbaabbbabbbab`aabb`aaa`a  
@HWI-EAS443:3:47:327:763#0/1  
GAAATAACGTTCCATGGGGCCAAGGAGGGGTCAC TAAGCT  
+HWI-EAS443:3:47:327:763#0/1  
aa`Xaaaa]bU\_I[a\_U^HWM[`[aGb¥F\_\_Za\_\_^a\_N\_  
@HWI-EAS443:3:48:306:747#0/1  
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+HWI-EAS443:3:48:306:747#0/1  
ab`a``¥ZRXb`¥Y`aaaa[\_`a\_\_\_\_\_aa^`]aa\_\_Y\_] ]  
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CAGAGACTGGAAAGTGTCTTTGCAGGAAAGAAGACAGATC  
+HWI-EAS443:3:48:877:2043#0/1  
^`a`bab```[`ba]0^^^]OZZ]¥]H)``a[D[HUNW`W  
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`aaaX`\_Zaaaaa\_a`a]S\_]a\_\_¥`[\_\_\_\_]\_`\_a¥[`[  
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+HWI-EAS443:3:49:1546:2022#0/1  
WSaS\_aW\_a]a`b`[^`^]\_\_¥P^[`b]VRX[D[QZ¥Q  
@HWI-EAS443:3:4:1573:1121#0/1  
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+HWI-EAS443:3:4:1573:1121#0/1  
a`aaaaa`\_`aa^a\_\_a\_^aa\_]Z[ ]\_\_HWY\_VRX\_\_B  
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GTTCTGTCCCCATTCCCATTTAGGGCATT TTTGGACAAAG  
+HWI-EAS443:3:50:1254:933#0/1  
\_a\_¥¥]b\_^\_Z^\_]aa]Z^aaa`^¥YW¥aaa]]ZY[[[¥

@HWI-EAS443:3:50:295:857#0/1  
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+HWI-EAS443:3:50:295:857#0/1  
[\_¥Zaa[[ZK\_[[`]`\_WSZ\_baW\_ab`a``]VZ`V]\_[¥  
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ACCTGCTATTGTGGATTACTGATCGTCTTTTTTTCAAATG  
+HWI-EAS443:3:52:1112:273#0/1  
a`ab\_Y\_`a`]]aa\_a\_`^\_`¥[\_Y]a\_aa\_a\_V^[\_`  
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GCCTCATATACAACAGGATGGGTACAGTGACCACAGAAGC  
+HWI-EAS443:3:52:165:111#0/1  
a\_a``aa\_`\_`^`]]`\_\_Y^U]\_X\_^WWTVPWXXU  
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+HWI-EAS443:3:54:550:1900#0/1  
¥U¥`]]\_ZU\_ZT\_¥YZVYQ¥Wa[YJD[]G]X[VVVUZZYQ  
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+HWI-EAS443:3:55:107:471#0/1  
^\_abb\_U^Y\_aaaTXaNPM\_aYTQTWXVR[X[UHNTYNYJ  
@HWI-EAS443:3:56:466:420#0/1  
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+HWI-EAS443:3:56:466:420#0/1  
ZaWa¥\_\_]a]\_[¥VV`XH^a]`YGXH][Ta]U¥Z]R^S\_I  
@HWI-EAS443:3:56:510:827#0/1  
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+HWI-EAS443:3:56:510:827#0/1  
Q\_XH\_RT\_¥]]`^W^^Q]]U]]ROTNMZHYFMOO^BBBBB  
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+HWI-EAS443:3:56:873:669#0/1  
`Ya``YYXa^`\_`T]`\_\_b]S\_Z¥^YaaaXb[F\_QV\_\_a^  
@HWI-EAS443:3:57:676:2004#0/1  
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+HWI-EAS443:3:57:676:2004#0/1  
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+HWI-EAS443:3:57:72:1257#0/1  
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@HWI-EAS443:3:58:1484:758#0/1  
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+HWI-EAS443:3:58:1484:758#0/1  
a`[JYT\_OY\_WZYP`SG^aRQRTTT[TJFSZ¥¥^Z¥¥Y[N  
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+HWI-EAS443:3:58:951:601#0/1  
aa\_aabbb`aaaa`a`a`YU¥XNU\_UUO]X^^T]^NTZ  
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+HWI-EAS443:3:59:1040:357#0/1  
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+HWI-EAS443:3:59:1509:1009#0/1  
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+HWI-EAS443:3:59:164:1508#0/1  
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+HWI-EAS443:3:59:865:1682#0/1  
abaaaa\_aa`a\_a`aaaaaa\_aaaaa\_aaY`^^VRYTT  
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+HWI-EAS443:3:5:1790:1413#0/1  
Va`ab][G¥[aaaababaabbbabUb[ba[bb\_ab]a`b^  
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+HWI-EAS443:3:5:182:855#0/1  
a\_a\_Y¥L]\_\_\_\_`a]\_^ZH]¥RZ`\_^T`VT[^]Y\_X]]BB  
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+HWI-EAS443:3:5:922:691#0/1  
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+HWI-EAS443:3:60:134:1872#0/1  
aaaba`[\_\_\_`ba\_¥aa^`a`LY\_]`X^\_¥`^[\_SQWV¥  
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+HWI-EAS443:3:60:1783:1585#0/1  
\_ba¥Q\_WH^\_aN`a]^^`]ZQT¥^]^^`\_`YNVUUSZ^Q  
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+HWI-EAS443:3:61:462:1338#0/1  
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@HWI-EAS443:3:62:484:1544#0/1  
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+HWI-EAS443:3:62:484:1544#0/1  
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@HWI-EAS443:3:63:676:573#0/1  
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+HWI-EAS443:3:63:676:573#0/1  
Y`aaaaaaaa`aab]X` `aab]WQQR[MPSRSLVYT  
@HWI-EAS443:3:64:438:380#0/1  
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+HWI-EAS443:3:64:438:380#0/1  
]bbZa`]a\_` `^aYa^b`a` [b¥J`aaa^aaaZZaa]\_  
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+HWI-EAS443:3:65:1111:1779#0/1  
aab¥a`¥\_aRa^\_ZTT¥RMZQ]HZQ`G\_\_Y`\_NNJQU]¥  
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GCCTCATATACAACAGGATGGGAACAGTGACCACGGAAGC  
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ababbabbbbaabbaababaa`aaaa\_aa`aaaa\_  
@HWI-EAS443:3:68:1557:58#0/1  
GAACAGTGACCACAGAAGCTGCTTTTGGGCTAGTGTGTGC  
+HWI-EAS443:3:68:1557:58#0/1  
\_^`ab`[^a\_]WX^aa]P]\_SX` `^ZWDHRU]SaT^YZK  
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+HWI-EAS443:3:68:657:1772#0/1  
`b`aa\_WMP[JYLMyV^]\_X]S\_GYa¥[TVaUJVGv[MYV  
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GTTCCATGGGACCAAGGAGGTGCTACTAAGCTATTCAACT  
+HWI-EAS443:3:68:802:871#0/1  
aaaa`aaaaa`aaa`a`Y^¥`a`aa` `` `a\_\_` `\_^  
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ATCTGTTCAAGCGGCACACTAGACCAAAAGCAGCTT  
+HWI-EAS443:3:69:1238:722#0/1  
N[¥\_\_]Y\_X]^]RGT`¥[\_a^]\_\_XRZU`¥¥U\_WT`¥]¥  
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GCATGGGCCTCATATCCAACAGGATGGGAACAGTGACCAC  
+HWI-EAS443:3:69:1516:587#0/1  
aa`b^a`aaa^a`a]HZ\_\_¥^a¥^`\_Y`\_¥\_\_S`\_UQ¥W  
@HWI-EAS443:3:6:1005:1328#0/1  
ATCCACTAATCAGGCATGAAAACAGAATGGAGCTGGCTAG  
+HWI-EAS443:3:6:1005:1328#0/1  
aUIYaa`^\_^W¥W\_\_a^S¥\_IO\_^UYZ`^GYZUM[R\_BB  
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+HWI-EAS443:3:6:1323:608#0/1  
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+HWI-EAS443:3:70:1685:857#0/1  
Wa`¥[XUW^¥ZabaXaaaabbab`R^]¥a^aa^¥[T]¥TK  
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+HWI-EAS443:3:70:759:500#0/1  
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+HWI-EAS443:3:71:1241:59#0/1  
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@HWI-EAS443:3:72:1630:126#0/1  
GGAGGTGTCACCTAAGCTATTCAACCGGTGCACTTGCCAGT  
+HWI-EAS443:3:72:1630:126#0/1  
a`La]I\_b\_bJ`a`aS`b`aa`b\_\_VDT\_Q\_NaZaNS]\_¥  
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+HWI-EAS443:3:73:1247:1744#0/1  
aWZ][^`RaQRSZP`Y¥]a^V` `]YY]JS¥\_NN¥[OPU  
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+HWI-EAS443:3:73:1640:690#0/1  
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^b\_\_¥W\_XUX¥WPP]¥XYLYZVY\_[RZ¥]`a\_ZBBBBBBB  
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+HWI-EAS443:3:75:1077:408#0/1  
abbbbbbbbababa` `b`babbbbabababbab\_Z\_aabba  
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+HWI-EAS443:3:75:178:1475#0/1  
\_¥`^` [¥a]^GH¥^IZ^\_FLXNQRSGXSX[GQZYQ`OXQ  
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+HWI-EAS443:3:76:1360:383#0/1  
\_W\_a` ``^Hab`ba`\_` `R¥^\_¥GTa\_aaUG¥a\_[RPXaS  
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+HWI-EAS443:3:76:16:279#0/1  
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+HWI-EAS443:3:77:1521:1291#0/1  
aaabaababbb\_a^[abaaaa\_a¥`a\_aaaaaa`\_a`\_a\_  
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ACTCCGATTCGCTTCTGGTAGGCCTGCAAATTTTCAAGAA  
+HWI-EAS443:3:78:1060:993#0/1  
`^bb]^UZZZ]a`aa^]]Ra`\_aY` [¥`a]a` `a\_aa\_\_`

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+HWI-EAS443:3:79:1254:1649#0/1  
ab`\_bK^I^b¥U`U^Va`U]b¥`a`WbGa`PIaHWTN[[a  
@HWI-EAS443:3:79:417:1590#0/1  
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+HWI-EAS443:3:79:417:1590#0/1  
``JabbTaW0\_Y]`\_¥`aaSXR\_aWabaVMGPYaXa^]YQ  
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+HWI-EAS443:3:79:552:1062#0/1  
`a`[X\_`]]``XZ[a\_WZa\_`U[SU`RX]XXTLUURRSU¥  
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+HWI-EAS443:3:79:882:1524#0/1  
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@HWI-EAS443:3:79:908:1171#0/1  
AACGTTCCATGGGGCCAAGGAGGTGCCACTAAGCTATTCA  
+HWI-EAS443:3:79:908:1171#0/1  
\_\_U^aa\_`[`a]WW^\_XZZ`U\_ZXYL^`\_\_WZ\_^a`[^a¥  
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+HWI-EAS443:3:79:953:793#0/1  
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+HWI-EAS443:3:7:1151:349#0/1  
\_bbabbVb`bbabVb]\_Y````a\_SbYbXG\_SNR\_F¥`WB  
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+HWI-EAS443:3:7:1662:924#0/1  
a\_aa[a`a[aa\_a\_a¥]aaa\_`a`]]\_\_aZ\_\_`]¥\_U\_  
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+HWI-EAS443:3:7:1719:229#0/1  
^]\_^WM^`\_]\_[`ba\_^VFP¥aU]SNQJNXN]]U[^BBBB  
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+HWI-EAS443:3:7:197:1978#0/1  
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+HWI-EAS443:3:7:28:1381#0/1  
\_````aaba[Jabbbbabaaabaaaaaa^aa^N]NZ]^S  
@HWI-EAS443:3:7:542:507#0/1  
GACCGATGCTGTGAATCAGCAATCTGTTACGAGTGGCAC  
+HWI-EAS443:3:7:542:507#0/1  
abb`a`S]aaaaaaabaa`aa\_Waa^\_`aRDLaW\_a¥aW  
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CAGCAATCTGTTCAAGTGGCAGACACTAGACCAAAAAGC

+HWI-EAS443:3:7:797:500#0/1  
Y^[W¥[R¥Y\_Y[ba\_^Ub\_]YWb\_^N^[aabaNV]Ia\_a¥  
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+HWI-EAS443:3:80:809:821#0/1  
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@HWI-EAS443:3:81:1129:119#0/1  
CAAGATTGGTCTTGTCTTTAGCCATTCCATGAGAGTCTCA  
+HWI-EAS443:3:81:1129:119#0/1  
NWVR¥\_b`¥^b¥bbbb`Vb\_b\_P¥\_bb`b\_b\_`¥\_H¥bVb  
@HWI-EAS443:3:83:1076:149#0/1  
GCACCTGATATTGTGGATTACTGATCGACTTTTTTTTCAAA  
+HWI-EAS443:3:83:1076:149#0/1  
`¥¥Z¥`b¥]\_a`]T¥\_X¥]^X¥\_^WXXJV\_]`^Z\_VSYXX  
@HWI-EAS443:3:83:195:589#0/1  
GGCCTCATATACATCAGGATGGGAACAGTGACCACAGAAG  
+HWI-EAS443:3:83:195:589#0/1  
aaaaaa[aaa\_aaaa]a`\_`a`^`a``¥aV¥aa`aa\_a^\_\_  
@HWI-EAS443:3:83:876:1641#0/1  
GGGCCTCATATACAACAGGATGGGAACAGCGACCACAGAA  
+HWI-EAS443:3:83:876:1641#0/1  
ab\_U[bb`aa[babbb]\_`b^bSbU`IUVN^bbabMa`bb  
@HWI-EAS443:3:84:1622:1654#0/1  
TCCCGTTCGCTTCTGGTAGGCCTGCAAATTTTCAAGAAGG  
+HWI-EAS443:3:84:1622:1654#0/1  
V]S^baaVa`b\_a\_[`Sa\_a\_aa^`a^a`aaba[[baaaa  
@HWI-EAS443:3:84:1742:1923#0/1  
CAAGGAGGTGTCACTAAGCTATTCAACTGATGCACTTGCC  
+HWI-EAS443:3:84:1742:1923#0/1  
abU[VYRL[]Nba¥Z`RT¥][RM`aa`a]FFaYa\_]PaYa  
@HWI-EAS443:3:84:850:1656#0/1  
GGAACAGTGACCACAGAACCTGCTTTTGGTCTAGTGTGTG  
+HWI-EAS443:3:84:850:1656#0/1  
aaabbbb]aba`aaa\_b`HYW^ST¥^]W¥W¥¥BBBBBBBB  
@HWI-EAS443:3:84:990:1143#0/1  
CAGTGACCACAGAAGCTGCCTTTGGTCTAGTGTGTGCCAC  
+HWI-EAS443:3:84:990:1143#0/1  
abbSbbbaabbabb^abaaaa`\_ba`aaaa\_a¥a\_\_a^aa  
@HWI-EAS443:3:85:872:125#0/1  
TGAAAAAAGACTATCAGTAATCCACAATATCAGGTGCAA  
+HWI-EAS443:3:85:872:125#0/1  
aaa`aaa`aaa\_`aaaa^`a`\_\_`[a`aa\_W\_``[``]^`^  
@HWI-EAS443:3:86:1643:763#0/1  
ATTCTGTTTTTCATGCCTGATTAGTGGATTGGTGGGAGTAG  
+HWI-EAS443:3:86:1643:763#0/1  
ab\_WXaaa]Z^¥\_a]^`^a^a]^aaaaX`BBBBBBBBBB  
@HWI-EAS443:3:87:1113:627#0/1  
ATACATTTGAAAAAAGACGATCAGTAGTCCACAATATCA  
+HWI-EAS443:3:87:1113:627#0/1  
\_`RO\_ab`b`XQ¥`\_TPVKYHZJ[VPPGQ\_`OHV]N]ZT\_



@HWI-EAS443:3:87:1129:516#0/1  
AAGCGAATGGGAGTGCAGATGCAGCGATCCAAGTGATCCT  
+HWI-EAS443:3:87:1129:516#0/1  
^¥bba^abb`\_Ua`baa`¥¥`U`X`¥`¥]YWUX\_SZ  
@HWI-EAS443:3:87:1302:826#0/1  
CGATGCTGTGAATCAGCAATCTGTTCAAGGGGCACACA  
+HWI-EAS443:3:87:1302:826#0/1  
U[b`\_VV[bbb^¥]Y¥VK¥bTaw`a]I\_^`Na^¥\_XTWU  
@HWI-EAS443:3:87:1735:1593#0/1  
GACCCGAACAACATGGATAGAGCAGTTAAAATATACAAGA  
+HWI-EAS443:3:87:1735:1593#0/1  
a\_\_aaaa`b`Uab[baaa`^a[\_a`a\_\_`I^\_]^VXVNR  
@HWI-EAS443:3:88:84:1423#0/1  
AAAGCCGAGATCGCGCAGAGACTGGAAAGTGTCTGTGCAG  
+HWI-EAS443:3:88:84:1423#0/1  
IQ`b`b¥S^^Z\_^a`YY¥WQ[b¥ab^^^X\_XXOGX[NO^  
@HWI-EAS443:3:89:740:845#0/1  
AAGAGAAATAATGTTCCATGGGGCCAAGGAGGTGTCACTA  
+HWI-EAS443:3:89:740:845#0/1  
aa`aaaa`baKR`\_a\_aaaa\_aa`aa`b^`a`^a\_ab`\_`a  
@HWI-EAS443:3:8:1669:1304#0/1  
ACTAGACCAAAAAGCAGCTTCTGTGGTCACTGTTCCATCC  
+HWI-EAS443:3:8:1669:1304#0/1  
aaV[b`ZiA]a][ZUYQaZGV^UR`IGZFS]\_`FFY^XFK  
@HWI-EAS443:3:8:176:195#0/1  
TGATCGTCTTTTTTCAAATGTTTTTATCGTCGCTTTAAA  
+HWI-EAS443:3:8:176:195#0/1  
¥a^Y`aZ¥^X¥[`bb`U¥]DU\_^`\_Z^Ta\_¥^a`UNY  
@HWI-EAS443:3:8:256:1343#0/1  
GACCGATGCTGTGAATCAGCAATCTGTTCAAGTTGCAC  
+HWI-EAS443:3:8:256:1343#0/1  
aaa`aba`baaSaab\_aaaaa`\_\_`a`[`a`\_`\_U[\_¥a\_  
@HWI-EAS443:3:8:278:728#0/1  
GCAGGCCTACCAGAAGCGAATGGGAGGGCAGATGCAGCGA  
+HWI-EAS443:3:8:278:728#0/1  
aa]```SMWTZ¥\_FM[^`TKVIWBBBBBBBBBBBBBBBB  
@HWI-EAS443:3:90:566:274#0/1  
GCACCTGATATTGTGGATTACTGATAGTCTTTTTTTTCAA  
+HWI-EAS443:3:90:566:274#0/1  
a]P[`Ya`RJJO\_L[LWQHvy`PLMFWP\_WPYSU^QX\_UP  
@HWI-EAS443:3:90:949:1671#0/1  
GGTCTAGTGTGCCACTTGTGGACAGATTGCTGATTCAC  
+HWI-EAS443:3:90:949:1671#0/1  
aba[]`^`S`¥aaLa`^^^aa\_Q\_¥aa`¥^`\_]a\_]Y  
@HWI-EAS443:3:91:1046:772#0/1  
GGCCTATCAGAAGCGAATGGGAGTGCAGATGCAGCGATTC  
+HWI-EAS443:3:91:1046:772#0/1  
aaZ¥`¥V^^a]¥[[]]^`^V^^\_R¥XY`X\_ZKX`Z`R¥VN  
@HWI-EAS443:3:91:1541:814#0/1  
AAATGCTCTAAATGGGAATGGGGACCCGAACAACATGGAT

+HWI-EAS443:3:91:1541:814#0/1  
abb`ba\_ababaa^ab\_a\_b`V^aUKY`^a`a]]\_bb[X`  
@HWI-EAS443:3:91:291:239#0/1  
TTCGGGCCCCATTCCCATTTAGGGCATTGACAAAGC  
+HWI-EAS443:3:91:291:239#0/1  
aaba\_a\_a\_`Xaaa^`¥`\_aaa`a`Za`\_```]^W]``\_Y  
@HWI-EAS443:3:91:496:567#0/1  
CAAAGGCTATGGAACAGATGGCTGGATCGCGTGAACAGGC  
+HWI-EAS443:3:91:496:567#0/1  
abbbbbbbbababaaa\_ba\_\_aaa\_a`[[\_P`Q`SZ`]\_  
@HWI-EAS443:3:92:833:465#0/1  
GCTAGCACTACGGCAAAGGCTATGGAACAGATGGTTGGAT  
+HWI-EAS443:3:92:833:465#0/1  
ab^¥0VWXbVTb`SFVM[[OQ[WQUG\_NaBBBBBBBBBBB  
@HWI-EAS443:3:94:426:1537#0/1  
TGGGCCTCATATACAACAGGATGGGCACAGTGACCACAGA  
+HWI-EAS443:3:94:426:1537#0/1  
ab`aaaaYJXQ``aUU``TRQYVSKKMXGFOTK]RUU¥K  
@HWI-EAS443:3:95:1126:440#0/1  
TGGGCCTCATATACAACAGGATGGGAACAGGGACCACAGA  
+HWI-EAS443:3:95:1126:440#0/1  
aT]WU^QQM¥`^a\_T]^XTR¥J\_UXHZWGY\_YXTKYV[  
@HWI-EAS443:3:96:106:146#0/1  
GGAGGTTGCTAATCAGCCTAGGCAGATGGTACATGCAATG  
+HWI-EAS443:3:96:106:146#0/1  
\_`\_Z\_`a¥]^`[`XW^KU]¥ZXJXVQPRXWUU^BBBBBBB  
@HWI-EAS443:3:96:1425:1372#0/1  
GGAAAGCGTCTTTGCAGGAAAGAACACAGATCTTGAGGCT  
+HWI-EAS443:3:96:1425:1372#0/1  
]baa\_ZF¥]]U`abS`]\_Ta\_[^\_`\_`\_¥aRGa^¥QYOJ\_  
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CAGGCCTACCAGAAGCGAATGGGAGGGCAGATGCAGCGAT  
+HWI-EAS443:3:96:1454:966#0/1  
aa`aZUZbaa¥`^`bXaWaSaaaP^M`U\_Z^Vb^W`VHR`  
@HWI-EAS443:3:96:465:684#0/1  
CACTAAGCTATTCAACTGGTGCACCTGCCAGTTGAATGGG  
+HWI-EAS443:3:96:465:684#0/1  
`\_]\_¥\_]`]^][VW[X\_aaUaZ¥[BBBBBBBBBBBBBBBBB  
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ACCTGATATTGGGATTACTGATCGTCTTTTTTTCAAATG  
+HWI-EAS443:3:97:1755:1609#0/1  
aaabbaaa`ZH^baa`\_0^^a\_[WaSa^baa\_¥H^aadW  
@HWI-EAS443:3:97:179:2038#0/1  
ACCAAAGCAGCTTTTGTGGTCACTGTTCCCATCCTGTTG  
+HWI-EAS443:3:97:179:2038#0/1  
a[^[RY`^aUa]`YN\_XXY]G`][LWWBBBBBBBBBBBBB  
@HWI-EAS443:3:97:911:989#0/1  
GGAGTGCAGATGCAGCGATTAAGTGATCCTCTCGTCATT  
+HWI-EAS443:3:97:911:989#0/1  
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@HWI-EAS443:3:98:233:661#0/1  
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+HWI-EAS443:3:98:233:661#0/1  
^Y]^0]]X]bUaXTXRDV¥X]XX¥a`VL^NDX¥FM[BBBB  
@HWI-EAS443:3:98:353:1702#0/1  
GATCCCAACGATATTTGCTGCAATGACGAGAGGATCACTT  
+HWI-EAS443:3:98:353:1702#0/1  
`\_Y``\_¥\_S`Z[`\_aa¥^TV\_a¥\_YUZ]Y]SX]^U\_W[W  
@HWI-EAS443:3:99:455:1464#0/1  
ACCTGATATTGTGGATTACTGATCGTGTTTTTTTCAAATG  
+HWI-EAS443:3:99:455:1464#0/1  
```bb`b`Vaa\_a^aa^\_ba\_aa`^Ha\_aabaa\_^^`\_a  
@HWI-EAS443:3:99:938:1297#0/1
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+HWI-EAS443:3:99:938:1297#0/1
a)`UQXQ_]]WX¥Taa^[]a[Y`b__^aU`Z]bUGH[WZB
@HWI-EAS443:3:9:1502:1865#0/1
CAAGTGGCACACACTAGACCAAAGCAGCTTGTGTGGTCA
+HWI-EAS443:3:9:1502:1865#0/1
Q¥a_Taa[]R¥b_]_V`_Za]ba¥U_b`]VJ_`XbbPSB
@HWI-EAS443:3:100:727:459#0/1
ACAGTGACCACAGAAGCTGCTTTTGGTCTAGTGTGTGACA
+HWI-EAS443:3:100:727:459#0/1
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@HWI-EAS443:3:13:461:1336#0/1
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+HWI-EAS443:3:13:461:1336#0/1
aXUN¥Q__R]]__^]XYaY]_Q_^_PM^]V^V]X]XVY¥Y
@HWI-EAS443:3:14:1690:843#0/1
CGGGCTTCTTGTATAGTTTAACTGCTCTATCCATGTTGTT
+HWI-EAS443:3:14:1690:843#0/1
abaZ^[aQ]ZXaaa]YW`¥__a[`XUI]_`YV]_aV^`^V
@HWI-EAS443:3:19:1083:1248#0/1
GCGGGCCTACCAGAAGCGAATGGGAGTGCAGATGCAGCGA
+HWI-EAS443:3:19:1083:1248#0/1
`b]b`aa^ba_]Xa_aaZaaba``a]aaZ^a]a`aa¥aY
@HWI-EAS443:3:26:1320:1638#0/1
CGCGTCACTAAGCTATTCAACTGGTGCCTTGCCAGTTGC
+HWI-EAS443:3:26:1320:1638#0/1
_`_VZZ[R_RTZ¥_¥_YOV_Z__^0]H[HP_aNOFKVNRF
@HWI-EAS443:3:27:544:600#0/1
CCGTGGAACGTTATTTCTCTTTTGAGCTTCTTGTATAGTT
+HWI-EAS443:3:27:544:600#0/1
abaabbabbb__bbabaa_aaaa_a_aaa`a``]a`_¥__
@HWI-EAS443:3:34:1552:264#0/1
GGCCATGGAGGTTGCTAATCAGACTAGGCAGATGGTAAAT
+HWI-EAS443:3:34:1552:264#0/1
ab¥]aaba`aaX`aY^_]WRZ_ZN]^`_]__TO]SGRVBB
@HWI-EAS443:3:37:160:1491#0/1
CCCCCCCCATGGAACGTTATTTCTCTTTTGAGCTTCTTGT

+HWI-EAS443:3:37:160:1491#0/1
abaZabbaa`¥`a`a`_aa`aaa`_[aS]^^`a_ZU
@HWI-EAS443:3:37:85:229#0/1
CAAGATTGGTCTTGTCTTTAGCCATTCCATGAGAGCCGAC
+HWI-EAS443:3:37:85:229#0/1
abbabaa_aVaaaa^a`_`a^a`]Z^aaQ¥WaQJ¥`_^]¥
@HWI-EAS443:3:38:333:396#0/1
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+HWI-EAS443:3:38:333:396#0/1
]aba`b`_[V`a`aa]^baa`^a]aYW^R[BBBBBBBBBB
@HWI-EAS443:3:3:121:648#0/1
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+HWI-EAS443:3:3:121:648#0/1
aa_aab^aaaa`a__aa_aa`aSa`___a]MV[BBBBBB
@HWI-EAS443:3:40:176:181#0/1
GGATTACTGATCGTCTTTTTTTCAAATGTATTTATCGCCG
+HWI-EAS443:3:40:176:181#0/1
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@HWI-EAS443:3:45:120:214#0/1
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+HWI-EAS443:3:45:120:214#0/1
aabaaaaa`_V¥`_`_a]QV^a__RZR`aS`_¥[^¥[_
@HWI-EAS443:3:45:455:837#0/1
GGGGTTGCTAATCAGACTAGGCAGATGGTACATGCAATG
+HWI-EAS443:3:45:455:837#0/1
^_bab[bbbbbbbaabbabbaaa_a`aaa`U^`aaa^aa
@HWI-EAS443:3:46:224:143#0/1
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+HWI-EAS443:3:46:224:143#0/1
_¥¥][T_____R`]S¥_]`__aW_]WBBBBBBBBBBBB
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+HWI-EAS443:3:46:840:210#0/1
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+HWI-EAS443:3:46:907:847#0/1
]aab_aa]aba]bbYabba^W`bYaa^U_T]HaBBBBBBB
@HWI-EAS443:3:50:1003:383#0/1
GTCGGATTACTGATCGTCTTTTTTTCAAATGTATTTATCG
+HWI-EAS443:3:50:1003:383#0/1
ab`a^abbab`]`]`a`abbaaaaTa_^a_Yaaaa^]W`
@HWI-EAS443:3:54:333:854#0/1
GCCTCATATACAACAGGATGGGAACAGTGACCACAGACGC
+HWI-EAS443:3:54:333:854#0/1
aaab``^`^`a`aaa[¥aaaaX`]U^a`a`_a_XJV^
@HWI-EAS443:3:54:373:1349#0/1
TACTGATCGTCTTTTTTTCAAATGTATTTATCGTCGCATT
+HWI-EAS443:3:54:373:1349#0/1
abaa`aaaWaaaaabb`a__a`a]aaaa`^a[^_^_

@HWI-EAS443:3:56:648:966#0/1
CATGATCTGTGTTCTTTCCTGCAAAGACACTTCCAGTCT
+HWI-EAS443:3:56:648:966#0/1
`_¥^Z`^a_]b`_Y_]a_V[Xaa_]_YZXb`_RX[RY`
@HWI-EAS443:3:56:746:102#0/1
CGGGCTTCTTGTATAGTTTAACTGCTCTATCCATGTTGTT
+HWI-EAS443:3:56:746:102#0/1
abbaabbabbbaabaa`baaaaaaa`a`a`_ab`aa`
@HWI-EAS443:3:59:1714:1602#0/1
GTGGCACCTGATATTGTGGATTACTGATCGTCTTTTTTTC
+HWI-EAS443:3:59:1714:1602#0/1
a_aa^a__`a_a`aaa]a_¥`a`^a`Z]]^^S___[^_ZT
@HWI-EAS443:3:60:1648:501#0/1
GGGCACTGTTCCCATCCTGTTGTATATGAGGCCCATGCAA
+HWI-EAS443:3:60:1648:501#0/1
[`H`RaQSZ__WT]ZPT[] []aUU``_QPUDM]SRSTSX^
@HWI-EAS443:3:62:967:1946#0/1
ATTCTGTTTTTCATGCCTGATTAGTGGATTGGTGGTAGGAA
+HWI-EAS443:3:62:967:1946#0/1
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@HWI-EAS443:3:64:1234:1756#0/1
AGGGCCTCATATACAACAGGATGGGAACAGTGACCACAAA
+HWI-EAS443:3:64:1234:1756#0/1
aa``aab`aaaaa`aaaa[U`X``¥Y`__W`a[^^a`_`_`
@HWI-EAS443:3:65:449:1515#0/1
CAGGATGGGAACAGTGACCACAGAAGCTGCTTTTGGTTTA
+HWI-EAS443:3:65:449:1515#0/1
a]aZ_a`^`aa_a`¥_aa``_`_`_¥a_[SU[¥¥Z¥W¥^¥
@HWI-EAS443:3:6:1398:37#0/1
GACCGATGCTGTGAATCAGCAATCTGTTCCACAAGTGGTAC
+HWI-EAS443:3:6:1398:37#0/1
_`aa``¥U]``ST`baJX[Haa`GSJUaaa`^`P[BBBBBB
@HWI-EAS443:3:72:35:219#0/1
ATTCTGTTTTTCATGCCTGATTAGTGGATTGGTGGTAGAAG
+HWI-EAS443:3:72:35:219#0/1
T^_XX¥bX__`]bba`[a]aaYaH`aa`BBBBBBBBBBBB
@HWI-EAS443:3:81:455:330#0/1
GGGGGTGTCACCTAAGCTATTCAACTGGTGCACCTTGCCAGT
+HWI-EAS443:3:81:455:330#0/1
abbbba¥aaa`^aaaabaabaaa`__a]Z``a_a``[_a`¥
@HWI-EAS443:3:81:599:513#0/1
CCGGGATCTTGCACCTGATATTGTGGATTACTGATCGTC
+HWI-EAS443:3:81:599:513#0/1
abaaaaaabaaaaaaabaaaaaa_a`_`a``aa_a_a_]`
@HWI-EAS443:3:83:1119:1996#0/1
ATTCTGTTTTTCATGCCTGATTAGTGGATTGGTGGTAGGAG
+HWI-EAS443:3:83:1119:1996#0/1
aRRMV`_¥I_a^__aZ[U^ZM`^ULZ^BBBBBBBBBBBB
@HWI-EAS443:3:87:1442:484#0/1
GTGACCACAGAAGCTGCTTTTGGTCTAGTGTGTGCCANTT

+HWI-EAS443:3:87:1442:484#0/1
a^`Z_¥`^aY` `]HW` ¥`TY¥QZMVQR¥URUMVVSVDNW
@HWI-EAS443:3:8:745:755#0/1
ACTGTATTTAAAGCGACGATAAATACATTTGAAAAAAGA
+HWI-EAS443:3:8:745:755#0/1
a`YbPbbbbbaaa]baaaaa[a`a^`aa`a`__`^^`____
@HWI-EAS443:3:92:1453:171#0/1
AAGACGATCAGTAATCCACAATATCAGGTGCAAGATCACA
+HWI-EAS443:3:92:1453:171#0/1
]`aaab[a`_][aXWNTS]Y`_a^V¥[^ZZFTYX¥_[GSN
@HWI-EAS443:3:93:1238:1503#0/1
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+HWI-EAS443:3:93:1238:1503#0/1
a)`aLVYUV¥a_TP`a^`____aa_SRR[PV^0^X[SYVGOY
@HWI-EAS443:3:10:236:634#0/1
ATTCTGTTTTCATGCCTGATTAGTNGATTGGTGGTAGTAG
+HWI-EAS443:3:10:236:634#0/1
a`P`aa_baaaaaaaaa_V__^aTD[_` `` `X`YFUBBBB
@HWI-EAS443:3:11:756:196#0/1
CAAGATTGGTCTTGNCTTTAGCCATTCCATGAGAGCCTCA
+HWI-EAS443:3:11:756:196#0/1
a`YaaXaab[a[`YD0a_[`¥__]NJR`` ` `R__QGNSS_
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GGAGGTTGCTAATCAGACTNGGCAGATGGTACATGCAATG
+HWI-EAS443:3:12:645:776#0/1
ab`bbUaaaaaaaaaaaa_YDX]__a`a_^Y` `]`Z_¥`^^_
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+HWI-EAS443:3:13:1360:1677#0/1
aabWJZYD¥abaa__aaa_aaaaa¥¥b__ `aN][U` [VZ_
@HWI-EAS443:3:13:1747:518#0/1
AGAAGCTGCTTTTGGTNTAGTGTGTGCCACTTGTGAACAG
+HWI-EAS443:3:13:1747:518#0/1
abaaaa`Uaaaaaa]RDY_aN`]a[a`X_[_¥`_]Z_Z
@HWI-EAS443:3:14:932:258#0/1
ACCGATGCTGTGAATCAGCAATCTGTTCAAGTGGNACA
+HWI-EAS443:3:14:932:258#0/1
a`aaa¥a_` `[_`^^^]^^^_¥W¥_[^Z[[^ZZU¥NDPQT
@HWI-EAS443:3:15:645:1018#0/1
GTCCCCATTCCNATTTAGGGCATTGACAAAAGCGTCTA
+HWI-EAS443:3:15:645:1018#0/1
_abaaabbaa[DVaa`aa`aaaa`a`aaaabbaaaa]aaa
@HWI-EAS443:3:20:1017:1910#0/1
GGTGTCACTAAGCTATTCAACTGGTGCNCTTGCCAGTTGC
+HWI-EAS443:3:20:1017:1910#0/1
`bXa^`bbabba`abaaaab__T]^`OD[a`_aXa_Y_a^
@HWI-EAS443:3:21:1453:1659#0/1
GGGCCTCATATACAANAGGATGGGAACAGTGACCACAGAA
+HWI-EAS443:3:21:1453:1659#0/1
aabb¥]b`a_^^]YD¥` [¥[ZR]U¥¥`^H^`OX¥Y¥`¥R

@HWI-EAS443:3:23:1189:1574#0/1
GCCTCATATACAACAGNATGGGAACAGTGACCACAGAAGC
+HWI-EAS443:3:23:1189:1574#0/1
abbbbbbbbaabbaa]D^bbaabaab^bba_a]abaaa_
@HWI-EAS443:3:26:417:1467#0/1
AAACTATACAAGAAGCTCAAAGAGAAAANAACGTTCCATG
+HWI-EAS443:3:26:417:1467#0/1
aaaaaa`a_a`a`_`a_aaaa_``_^_¥D]a_¥]^_^_¥¥
@HWI-EAS443:3:29:165:1796#0/1
ACCTGATATTGTGGATTACTGATCGTCTTTTTTTCNAATG
+HWI-EAS443:3:29:165:1796#0/1
aab```a^`a^]a¥a``aaa_`_W[a_````_`^D[`^Z
@HWI-EAS443:3:2:246:1021#0/1
CTTGAATCGCTGCATCTGCACTNCCATTCGCTTCTGGTAG
+HWI-EAS443:3:2:246:1021#0/1
aa`b]]Y¥aaa^X`[]¥a^¥^MDMZ_SWSGWUWU^[HSV¥
@HWI-EAS443:3:2:953:1623#0/1
CAGCGATTCAAGTGATCCTCTCGTCATTGCAGCANATATC
+HWI-EAS443:3:2:953:1623#0/1
aaa_b``b`aba0a[S_aa]a¥a]Ga``a]aa_[D^`aaH
@HWI-EAS443:3:30:1238:663#0/1
ACCTTCTTGA AAAATTTGCAGGCCTACCAGAAGCGAANGGG
+HWI-EAS443:3:30:1238:663#0/1
a[`aa``b^b`Y¥b`aaaa`a`[abZ^a`^a`W`¥VDS`U
@HWI-EAS443:3:30:1577:1365#0/1
GCCTCANATACAACAGGATGGGAACAGTGACCACAGAAGC
+HWI-EAS443:3:30:1577:1365#0/1
W[¥YD[UUbb`_a_Y]N¥^]ZW^[aZa_QLURP[UY^V
@HWI-EAS443:3:31:1156:1955#0/1
GTGAGACCGATGCTGTGAATCAGCAATCTGTTACANGTG
+HWI-EAS443:3:31:1156:1955#0/1
a]b`]babab]abaa`^`aaab_aaaaaaa_a^a][DV[_
@HWI-EAS443:3:31:1758:264#0/1
CGCGCAGANACTGGAAAGTGTCTTTGCAGGAAAGAACACA
+HWI-EAS443:3:31:1758:264#0/1
abbaXabYDS]bbaaaa]a¥Y_aa`a_`aX_XUZUH_YZ
@HWI-EAS443:3:33:331:682#0/1
CCAAAAGCAGNTTCTGTGGTCACTGTTCCCATCCTGTTGT
+HWI-EAS443:3:33:331:682#0/1
^`a`abbbbZD[a``a`]¥aa`a^]]aaaaZaUa^a`_¥_
@HWI-EAS443:3:36:1328:376#0/1
GCGAATGGGAGTGCAGATGCAGCGATTCCANGTGATCCTCT
+HWI-EAS443:3:36:1328:376#0/1
a_b_`aaaa)`Ya_^^X``[_Z^^[^ZTVDDWW^W^Z^ZW[
@HWI-EAS443:3:37:472:1197#0/1
GGGACCCGAACAACATGGATAGAGCAGTTAAACNATACAA
+HWI-EAS443:3:37:472:1197#0/1
ab`aaabaaXbabababa`aa_`_YV^]XS]a[DXZ[`a^
@HWI-EAS443:3:39:555:1312#0/1
GGGGACCCGAACAACATGGATANAGCAGTTAAACTATACA

+HWI-EAS443:3:39:555:1312#0/1
]a_bbbbabba`ababaaa¥D[ab```_`^YPV_`a_`
@HWI-EAS443:3:44:929:1092#0/1
GCCTACCAGAAGCGAATGGGAGNGCAGATGCAGCGATTCA
+HWI-EAS443:3:44:929:1092#0/1
aabbaababaababaababa`[D[`aaaaa_``^Z^S]
@HWI-EAS443:3:46:1031:1273#0/1
GACNAATCTTGTCACCTCTGACTAAGGGAATTTTAGGATT
+HWI-EAS443:3:46:1031:1273#0/1
aaXD]aabaaa`a``baaba_aa_aa`aa``_a___`
@HWI-EAS443:3:49:749:1148#0/1
GGGAGTGCAGNTGCAGCGATTCAAGTGATCCTCTCGTCAT
+HWI-EAS443:3:49:749:1148#0/1
aa`aaZb[_[D[aZ]a^b^_V_Y_Za``^Y_]_¥_¥^]
@HWI-EAS443:3:52:1282:1271#0/1
GCAAGATCCCAATGATATTTGCTGCAATGACGAGNGGATC
+HWI-EAS443:3:52:1282:1271#0/1
abbb`_baa`^aa]ab_b]`baaa``^`Z^`a[YD[_V[[
@HWI-EAS443:3:55:1482:1744#0/1
CAGTAATCCACAATATNAGGTGCAAGATCCCAATGATATT
+HWI-EAS443:3:55:1482:1744#0/1
^bb`_a_bbb_bbaa^D^a]ababbabb`__babbbbab
@HWI-EAS443:3:58:1298:601#0/1
GGCCTCATATACAACAGGATGGGAACAGTGACCACNGAAG
+HWI-EAS443:3:58:1298:601#0/1
_]_aa¥ba¥a`][``a_]X_a[a¥]aYa_a[YLDV¥Za
@HWI-EAS443:3:58:1726:1792#0/1
CACNCACTAGACCAAAAGCAGCTTCTGTGGTCACTGTTCC
+HWI-EAS443:3:58:1726:1792#0/1
abWD[aaabaaaaaa`]aaXaa[a^_a___aSa`_`S`
@HWI-EAS443:3:64:1128:610#0/1
ATTGTGGATTANTGATCGTCTTTTTTTCAAATGTATTTAT
+HWI-EAS443:3:64:1128:610#0/1
YbbaXa`]bYD]b`ba``_abaabba`aaaa__aba_a
@HWI-EAS443:3:64:1767:264#0/1
GTGAGACCGATGCTGTGAATCAGCAATCTGTTCNCAAGTG
+HWI-EAS443:3:64:1767:264#0/1
a]bbaa`baaa_aaaaaaa`_`a^Y_a]aUDO_^[W^
@HWI-EAS443:3:67:934:1934#0/1
CAGGCNTACCAGAAGCGAATGGGAGTGCAGATGCAGCGAT
+HWI-EAS443:3:67:934:1934#0/1
a[`¥[DXWb_abbZaaa`U_`^]aVaQ`_X[]JXaQ_a_
@HWI-EAS443:3:69:507:1155#0/1
GATGGGAACAGTGACCACAGNAGCTGCTTTTGGTCTAGTG
+HWI-EAS443:3:69:507:1155#0/1
aaaaaabbbbaaSaabaab^XD^aa^`aaaa_a_¥a`]]Y¥
@HWI-EAS443:3:6:113:581#0/1
CGCNGAGACTGGAAAGTGTCTTTGCAGGAAAGAACACAGA
+HWI-EAS443:3:6:113:581#0/1
abSDY_b[_V]__a`]G`X``_``_V`a¥`XV_aSa_BBB

@HWI-EAS443:3:73:764:294#0/1
ATCGCTGCATCTGCACTCCCNTTCGCTTCTGGTAGGCCTG
+HWI-EAS443:3:73:764:294#0/1
a`aa[``aa`_^a]]`_^MDU_^_^_`]TU^][VW^^
@HWI-EAS443:3:77:265:1482#0/1
CACTAGACCAAAAGCAGCTTCTGTGGTCACNGTCCCATC
+HWI-EAS443:3:77:265:1482#0/1
abb¥`_`bb`aab`aa`a`aU_ZPZW`ZXDORZ_____VV
@HWI-EAS443:3:7:1218:1747#0/1
CACAAGTGGCACACACTAGACCAAAAGCANCTTCTGTGGT
+HWI-EAS443:3:7:1218:1747#0/1
aa^bbbabbbbbbaba`bbaa]aabaaUYD[a`]``^aaX
@HWI-EAS443:3:80:47:582#0/1
ATCCCAATGATATTTGCTGNAATGACGAGAGGATCACTTG
+HWI-EAS443:3:80:47:582#0/1
^aabaaabab```^`ba`YDYa[a_``¥¥```_[W^^]]U¥
@HWI-EAS443:3:81:1210:1128#0/1
GCACCTGATATTGTGGATTACTGATCGTCTTTNTTTCAAA
+HWI-EAS443:3:81:1210:1128#0/1
a[VOLXYLWP_XWKX`WUaLP[^SY]_[FOWYD^_[S¥S]
@HWI-EAS443:3:84:510:829#0/1
ACTGATCGTCTTTNTTTCAAATGATTTATCGTCGCTTTA
+HWI-EAS443:3:84:510:829#0/1
_a`^a`aa___aYD¥aa]]`aa]`aaaaaa_`a`_`_`
@HWI-EAS443:3:85:186:1723#0/1
GGCTAGCACTANGGCAAAGGCTATGGAACAGATGGCTGGA
+HWI-EAS443:3:85:186:1723#0/1
a_a¥¥`^T]`ZDY^__`]¥`_¥`^`_]¥¥__X[V[^RX¥U
@HWI-EAS443:3:87:1429:1330#0/1
AGATGGTACATNCAATGAGA ACTATTGGGACTCATCCTAG
+HWI-EAS443:3:87:1429:1330#0/1
aaa]ab]Z[^YDY]`b`]]TN¥a_a__aa^__Pa_NR¥XY
@HWI-EAS443:3:89:1532:814#0/1
GGGATCTNGCACCTGATATTGTGGATTACTGATCGTCTTT
+HWI-EAS443:3:89:1532:814#0/1
aa`]ab^D]baaabb`babbb_bb^aaa`ab^a_aa_abb
@HWI-EAS443:3:93:1140:1910#0/1
GCAGATGCAGCGATTCAAGTGATCCTCTCGTCATTGNAGC
+HWI-EAS443:3:93:1140:1910#0/1
a__Y^]aab¥[¥_¥_aa_XU`W_]JQWRKTW[_^TRDW^T
@HWI-EAS443:3:93:1232:540#0/1
CAAGATTGGTCTTGTCTTTAGCCATTNCATGAGAGCCTCA
+HWI-EAS443:3:93:1232:540#0/1
abb`_^babYabbb`abbbbaa`baYD¥a_aaa_b`H_¥[
@HWI-EAS443:3:93:1257:77#0/1
CAAGATCTGTGTTCTTTCCTGCAAAGACACNTTCCAGTCT
+HWI-EAS443:3:93:1257:77#0/1
^a`bab]bb_b`aY`ba[``b[aaab``aOD¥_`J`^^]^
@HWI-EAS443:3:93:1416:676#0/1
CTCATATACAACAGGATGGGANCAAGTACCACAGAAGCTG

+HWI-EAS443:3:93:1416:676#0/1
a`_abZb`^b^aaaaa_[TDLa_Qa_[Z`a^a]^_N_a
@HWI-EAS443:3:93:1681:1297#0/1
ATATACAACAGGATGGGAACAGTGACCACANAAGCTGCTT
+HWI-EAS443:3:93:1681:1297#0/1
aba`aT[aa_ba`^b[aaa_]a`a`_aaaUDY_a_]_V` [
@HWI-EAS443:3:10:169:953#0/1
CAAGATTGGTCTTGTCTTTAGCCATTCCATGAGAGCCTAT
+HWI-EAS443:3:10:169:953#0/1
aaa_K¥babV]b`aI_b^aabbabaaaaZQ_a_a_aQ`X]
@HWI-EAS443:3:12:64:2038#0/1
GNCCACAGAAGCTGCTTTTGGTCTAGTGTGTGCCACTTGT
+HWI-EAS443:3:12:64:2038#0/1
[D^babbabbababaaaa`a^baaaV_]a__aaaa`^``
@HWI-EAS443:3:14:153:1826#0/1
GAGGCCTCATATACAACAGGATGGGAACAGTGACCACAGA
+HWI-EAS443:3:14:153:1826#0/1
X[a^`]a`bbb_R_bb``aaYM^``aZ_Y¥]^aaaa¥a`a
@HWI-EAS443:3:16:852:1616#0/1
GCTTAGTGACACCTCCTTGGCCCCATGGAACGTTATTTAT
+HWI-EAS443:3:16:852:1616#0/1
`bXU_T¥VZZ`b^[Y`I¥_`[RX¥U]Y_aW_aOW_`^`OQ
@HWI-EAS443:3:17:1320:1090#0/1
CATCTTTTTTTCAAATGTATTTATCGTCGCTTTAAATACG
+HWI-EAS443:3:17:1320:1090#0/1
abbbabbbbbbabbab^ababab`a_bb_bbb_`aaa_a
@HWI-EAS443:3:18:1019:1144#0/1
GCTCGGGTCCCCATTCCCATTTAGGGCATTTTGGACAAAG
+HWI-EAS443:3:18:1019:1144#0/1
ababaaa``aaaa`a_aa^a_`aaa`aa`aaaa^a`a`a_
@HWI-EAS443:3:19:632:318#0/1
GGGGGCCTCATATACAACAGGATGGGAACAGTGACCACAG
+HWI-EAS443:3:19:632:318#0/1
aX^`__¥YY[¥`URU^TQ¥^ZZW¥ZTTVUXUVXYUPUPUU
@HWI-EAS443:3:1:1206:1135#0/1
CGTCTTTTTTTCAAATGTATTTATCGTCGCTTTAAATAGG
+HWI-EAS443:3:1:1206:1135#0/1
`b¥a``ZP_^a^ab_bb``babb`Tba^aY^a``^a]BBB
@HWI-EAS443:3:1:1697:1699#0/1
AGCAATCTGTTCACAAGTGGCACACACTAGACCAAAGAA
+HWI-EAS443:3:1:1697:1699#0/1
`aLR`Z^`a_aY_G]^Y[`aY^¥aZ_¥]^`^X`a__BBBB
@HWI-EAS443:3:21:524:796#0/1
ACGGGCCTCATATACAACAGGATGGGAACAGTGACCACAG
+HWI-EAS443:3:21:524:796#0/1
aa````a_aaaa_a`^^a^^[^¥_¥_¥a^`]W^___Y¥¥¥
@HWI-EAS443:3:26:890:627#0/1
CTACCAGAAGCGAATGGGAGTGCAGATGCAGCGATTACCG
+HWI-EAS443:3:26:890:627#0/1
]__[VV¥``__¥_[[[_]TX`___¥Q`TZW^ZWWT_BBBB

@HWI-EAS443:3:28:480:546#0/1
CTGATATTGTGGATTACTGATCGTCTTTTTTTCAAATGGA
+HWI-EAS443:3:28:480:546#0/1
[a¥U^b¥bbYaaNXKbaa`¥]bb`baV¥`bb_Y_^_T^FS
@HWI-EAS443:3:34:1757:1320#0/1
AGGGGAACAGTGACCACAGAAGCTGCTTTTTGGTCTAGTGT
+HWI-EAS443:3:34:1757:1320#0/1
[GZba^a`[^¥aa`¥^_a]aa`__^TTU[UTYRQNZBBBB
@HWI-EAS443:3:34:759:1722#0/1
CAGGGCCTCATATACAACAGGATGGGAACAGTGACCACAG
+HWI-EAS443:3:34:759:1722#0/1
__ZW¥_aa]^_aY[]aa¥YUY_XV`X¥a``¥V[WZ^RBBB
@HWI-EAS443:3:36:180:1280#0/1
TTCTGTTTTCATGCCTGATTAGTGGATTGGTGGTAGTACC
+HWI-EAS443:3:36:180:1280#0/1
]^`aa¥Saaabb__ab^WUZ`UZVW_P````BBBBBBBBBB
@HWI-EAS443:3:36:326:1690#0/1
ACGGCCTCATATACAACAGGATGGGAACAGTGACCACAGA
+HWI-EAS443:3:36:326:1690#0/1
aaZG_a_bZJTVUQ___[`VS^YSN¥VR`TH^]S^]a_ZZ
@HWI-EAS443:3:40:204:640#0/1
CACAGAAGCTGCTTTTTGGTCTAGTGTGTGCCACTTGTGCA
+HWI-EAS443:3:40:204:640#0/1
_X^_ZJXaa`_`V`a[___¥_[]SNWNWUWSYWX¥VRPFO
@HWI-EAS443:3:49:1768:1817#0/1
CAAGTGGCACACACTAGACCAAAAGCAGCTTCTGTGGTGA
+HWI-EAS443:3:49:1768:1817#0/1
_]a`]U¥aabaabZYb`aa][G]a_aa_Q¥T_[[V`XRD_
@HWI-EAS443:3:4:1398:177#0/1
GGCACACACTAGACCAAAAGCAGCTTCTGTGGTCACTGGT
+HWI-EAS443:3:4:1398:177#0/1
a[DQ_PMUNXRJOYSV[XY^¥¥[UUMB BBBB BBBB BBBB
@HWI-EAS443:3:50:740:146#0/1
CAGCAATCTGTTCAAGTGGCACACACTAGACCAAAAAT
+HWI-EAS443:3:50:740:146#0/1
`_ba_abb_¥_bY_bbba^bb`_`b`aabbbba^bbbbbba
@HWI-EAS443:3:53:1772:741#0/1
ATCGTCTTTTTTTCAAATGTATTTATCGTCGCTTTAAAAA
+HWI-EAS443:3:53:1772:741#0/1
aa_^RG]¥`ZZULJUT^`XPa`X^W[DMVT]T]BBBBBBB
@HWI-EAS443:3:56:131:1289#0/1
ATCCCAATGATATTTGCTGCAATGACGAGAGGATCACTAG
+HWI-EAS443:3:56:131:1289#0/1
abaaaaaabbaab_a^`bb_aaa`aaaa`_aaa_Zaa__[
@HWI-EAS443:3:57:124:1035#0/1
GGGGCTCTCATGGAATGGCTAAAGACAAGACCAATCTTGT
+HWI-EAS443:3:57:124:1035#0/1
ab_a^aaa`]]U)``__[[V``VHXYZ[¥[GVYVRY[]BB
@HWI-EAS443:3:57:1308:927#0/1
CCGTGGTCACTGTTCCCATCCTGTTGTATATGAGGCCCAT

+HWI-EAS443:3:57:1308:927#0/1
a`¥^`_]_Z]__^a_```ZP¥_`R_`[^_V]``ZZRPZ]T
@HWI-EAS443:3:58:687:610#0/1
GTTTCCCTTAGTCAGAGGTGACAAGATTGGTCTTGTCTTT
+HWI-EAS443:3:58:687:610#0/1
aabaa``a`aa^`a_`Z``_[a]___`Z^_^_^^_^]
@HWI-EAS443:3:61:162:1599#0/1
TGGGCCTCATATACAACAGGATGGGAACAGTGACCACAAA
+HWI-EAS443:3:61:162:1599#0/1
a``]Z_^Z`_LUa¥a¥`]W]WRSXOT]`BBBBBBBBBBBB
@HWI-EAS443:3:61:499:1554#0/1
GTGTCACTAAGCTATTCAACTGGTGCACCTGCCAGTTGAA
+HWI-EAS443:3:61:499:1554#0/1
aYaT``a_U¥X^V]`¥UOX[LZNTS]_BBBBBBBBBBBB
@HWI-EAS443:3:63:157:1746#0/1
GCATTACTGATCGTCTTTTTTTCAAATGTATTTATCGTCG
+HWI-EAS443:3:63:157:1746#0/1
YFVZ``Y````[X_Za^ZZX]]Y]W^VSS¥0¥UWSPPRH
@HWI-EAS443:3:64:33:517#0/1
AAGGGAGTGCAGATGCAGCGATTCAAGTGATCCTCTCGTC
+HWI-EAS443:3:64:33:517#0/1
^W¥`aa`T`¥]]a`[a`]aaY`aa]V]]a[[aa^`U]UT^
@HWI-EAS443:3:65:1411:1338#0/1
GCCGCGCAGAGACTGGAAAGTGTCTTTGCAGGAAAGAACA
+HWI-EAS443:3:65:1411:1338#0/1
^F__`]]ZR`b^YS_[-_aaaN`ZQ]^_]R[aIVZ¥YaU_
@HWI-EAS443:3:67:853:73#0/1
GCGGGCCTCATATACAACAGGATGGGAACAGTGACCACAG
+HWI-EAS443:3:67:853:73#0/1
aaaaaaaa`aa`a`[a_¥_aa_``a`^_^^`V`¥^UXW¥¥
@HWI-EAS443:3:67:863:1250#0/1
GTGCCTCATATACAACAGGATGGGAACAGTGACCACAGAA
+HWI-EAS443:3:67:863:1250#0/1
a_bb_babaaaabaaaaa^_aaa[a^a^Waa^__^]_^`
@HWI-EAS443:3:69:1723:1023#0/1
CGCTTGTGAACAGATTGCTGATTCACAGCATCGGTCTCAC
+HWI-EAS443:3:69:1723:1023#0/1
abbbba`bbb_ababbaabaaa`aaaa`aaaaa]^_`aV
@HWI-EAS443:3:73:1277:1655#0/1
ANCAGCAATCTGTTCAAGTGGCACACACTAGACCAAAA
+HWI-EAS443:3:73:1277:1655#0/1
[DQ``Y`a_a`aY_ZRxa__Z^Yaa¥a]_`[a`_^V]ZY¥
@HWI-EAS443:3:74:409:1524#0/1
CGGGGATCTTGACCTGATATTGTGGATTACTGATCGTCT
+HWI-EAS443:3:74:409:1524#0/1
aa^^W¥Z`Z_aaaa__a__`__Z^][]__^^]`]`_V^^
@HWI-EAS443:3:77:215:1927#0/1
CAGGGCCTCATATACAACAGGATGGGAACAGTGACCACAG
+HWI-EAS443:3:77:215:1927#0/1
`SZW]bbaaVZ^Vbaaaaa`W¥]_____aVa_U_`a¥a_`_`

@HWI-EAS443:3:79:1653:264#0/1
CATGCACCTGATATTGTGGATTACTGATCGTCTTTTTTTC
+HWI-EAS443:3:79:1653:264#0/1
Y^a¥[a_I_b`ba`^`aa[Jbb¥V[Wa`_V^Q]bbaba`X
@HWI-EAS443:3:79:183:1189#0/1
GTCCTCATATACAACAGGATGGGAACAGTGACCACAGAAG
+HWI-EAS443:3:79:183:1189#0/1
aaba^¥KWQWYYaa_`]XUY[^TUUS¥T__a_¥_U_^W_
@HWI-EAS443:3:7:1481:1429#0/1
ACGGCCTCATATACAACAGGATGGGAACAGTGACCACAG
+HWI-EAS443:3:7:1481:1429#0/1
a^b^a]]IXZ[`aSWSZ_¥a`WS[¥`¥_SN[G_]UN¥BBB
@HWI-EAS443:3:7:781:1426#0/1
GCCTACCAGAAGCGAATGGGAGTGCAGATGCAGCGATTAA
+HWI-EAS443:3:7:781:1426#0/1
a_]W[_a__aa`]b_]aba¥aa_a_`_`_]V^_ZaN^OFY
@HWI-EAS443:3:80:224:156#0/1
AGATGACCTTCTTGAAAATTTGCAGGCCTACCAGAAGCAG
+HWI-EAS443:3:80:224:156#0/1
aaa`aa`^a]aaaa^U[`_`^Xa_a)`_a__aQ^_^^¥
@HWI-EAS443:3:81:503:552#0/1
GGCCCGAACACATGGATAGAGCAGTTAACTATACAAGA
+HWI-EAS443:3:81:503:552#0/1
a_aa``ZW)`[a^`a]Y_Y]X¥YZ¥[^Z__^_^]WQU_ZV
@HWI-EAS443:3:82:288:149#0/1
GTGCTTCTTGTATAGTTTAACTGCTCTATCCATGTTGTTC
+HWI-EAS443:3:82:288:149#0/1
a[aaaaaaaa`aT`_aaa`Z_a`_`_`_^X__^]_^[[
@HWI-EAS443:3:84:203:1533#0/1
GGGGCCTCATATACAACAGGATGGGAACAGTGACCACAG
+HWI-EAS443:3:84:203:1533#0/1
a`aabbabba`baaabaab``aa_aba`b_¥_ba¥aaa_
@HWI-EAS443:3:92:732:1300#0/1
GTCCTCATATACAACAGGATGGGAACAGTGACCACAGAAG
+HWI-EAS443:3:92:732:1300#0/1
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@HWI-EAS443:3:93:724:1359#0/1
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+HWI-EAS443:3:93:724:1359#0/1
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a^abYaaaab_a`aaaaaa_[aa```BBBBBBBBBBBBB
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+HWI-EAS443:3:98:477:236#0/1
a]]¥aa[0¥]`JXWb]a^aaa^TY]¥`a¥V¥Y_`I¥_^]W
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+HWI-EAS443:3:99:1526:1045#0/1
¥^XU]`_W_Q¥__Xaaaa`abbb`a_aV¥b_a_]S]_BBB
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+HWI-EAS443:3:92:1599:958#0/1
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+HWI-EAS443:3:12:1098:1203#0/1
a_] [F[^TX^X¥a¥_a`^]¥`ZQ¥¥¥¥^ZNPVSPBBBBBB
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+HWI-EAS443:3:12:370:663#0/1
aba^_a_aaaaa_aa_a_a_a^a`_a`^_¥_¥_a____`V
@HWI-EAS443:3:14:235:385#0/1
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+HWI-EAS443:3:14:235:385#0/1
a`a`]`_`b`b`aab^YZb_aWbaZaa`_`X__0]]^Va[
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abaaaY`[ab_aaa`a`_bURXa`_T`W_aWa``Q¥W__¥
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+HWI-EAS443:3:17:1696:239#0/1
_aab¥^abbbbbbbbaabbabb`b_a_a`]b_RT]Q``_
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_a```_ab`[_b__`a__bb]abaa^a`_`Q`a__N_a]

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a`^__aaa_a`aaaa`aa]_¥a```]__U_`X`YU_dW
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+HWI-EAS443:3:18:1301:278#0/1
I¥a[]¥_aba`b¥aYZ_]_^Wa_^OZ^^]aa[Ybbabb
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+HWI-EAS443:3:18:132:509#0/1
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+HWI-EAS443:3:18:1718:819#0/1
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@HWI-EAS443:3:19:870:18#0/1
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+HWI-EAS443:3:19:870:18#0/1
ZaZ_`^`^YXX[_a`Y]abbab`b`^`a^`¥_Y]Z]]¥a¥_
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+HWI-EAS443:3:19:963:1031#0/1
_[_Q¥WMW]^ZU¥`[_`[bSa][_TMRFP^X`S`__^BBBB
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+HWI-EAS443:3:1:1040:1449#0/1
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a`_^__^Y`a[_`_a^`^Ua_X`_`_]W_`ZUZ^`ZW_BB
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+HWI-EAS443:3:20:1366:1508#0/1
abba_^b`bba^]_aX__ba_^[X`^[`aa`a_a¥Z__`
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+HWI-EAS443:3:20:600:612#0/1
aaW`a_a]]aaaaab__]_aS_a]a`[^a__^^aa`__`]
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+HWI-EAS443:3:21:1144:1344#0/1
a_]V`Y[Z`aaQ¥__^__^XR]Y¥aW^__^`_]`^]
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+HWI-EAS443:3:21:1550:730#0/1
[a`¥U]^`aba^^`a[_R_SU^]¥P`H]YUL[¥Za
@HWI-EAS443:3:24:1530:591#0/1
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@HWI-EAS443:3:25:1344:1050#0/1
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+HWI-EAS443:3:25:1344:1050#0/1
TZY__WW_VV_]`XT¥V]¥`^ZZ_[W_ab^`^UZS]X^¥`
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+HWI-EAS443:3:27:1515:1280#0/1
ZO_¥Xab```a_[`a`aa]^a^aTa_ab_aa^aa`]aaa
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+HWI-EAS443:3:28:72:791#0/1
aabb^bZb_^[aa^aabb_]b`a`^a[a^aa`_a``_¥Z
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T_aa``ab¥_bZ^^b_bbbaba`b`_Ybb``¥W`abbbaa
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]aWXZaaaa_b]``aa_a^^V¥a_`a[__[F[_a^S]^I
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+HWI-EAS443:3:31:272:160#0/1
a`¥aaa_aa_aa__aa_aa`[_`a`^a__`¥^UZUUR¥¥

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+HWI-EAS443:3:31:843:1682#0/1
aYa_U]bab_Z]bbba`Xaa__aaV__aaa^UT_¥a^WXU
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+HWI-EAS443:3:33:1261:1436#0/1
`a_a_aa`a`_aaa`_`aa^[_aa__^_`¥`]H]YX^^Z]
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+HWI-EAS443:3:33:1409:422#0/1
aV_a`_`_`¥__a`^_a¥`_WZ__`W^Q`ZRVWRUTNY¥
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+HWI-EAS443:3:34:408:1045#0/1
aaQ`_`aa^RWa`_aa]`_aa]SVMY[_[_`VS]^VPPGV¥¥
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+HWI-EAS443:3:34:614:215#0/1
a`^a`Y`¥a`U[_UV^_LZZ[a_^Z_^XU¥¥BBBBBBBB
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`]Xaabbabbbabbab_aaa`_X]Z`a_a`V_a`X`VXN¥
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+HWI-EAS443:3:36:1533:1264#0/1
]__VT^_Sa_]aba[Z`_`^`^¥Z¥_]Z]V_]U]T]`RX
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+HWI-EAS443:3:39:678:205#0/1
abaVaaa`aa[___a][aa_^`_Y¥¥T^YY^0^___UI^W
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+HWI-EAS443:3:3:359:1626#0/1
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+HWI-EAS443:3:40:1348:159#0/1
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@HWI-EAS443:3:56:180:1424#0/1
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+HWI-EAS443:3:56:180:1424#0/1
Q¥]PWVV[[]`a¥` [WRT¥R_bb`_T[Z_USP`a`b`_a^a
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+HWI-EAS443:3:56:266:428#0/1
aa`babaaa^aaaaa`aa`a`a_a_`dW`aa_]Z¥^[
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+HWI-EAS443:3:56:821:1079#0/1
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a__[a`ababa^aa_aaa`¥`a`_`aa¥a^^_Y^U[Z
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+HWI-EAS443:3:64:647:1955#0/1
a_^¥a_aaaa^Z`aa_a¥a`_`[a^`¥_OSX`Z_RWa]_
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+HWI-EAS443:3:65:1269:1278#0/1
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+HWI-EAS443:3:65:473:483#0/1
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+HWI-EAS443:3:66:1651:358#0/1
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+HWI-EAS443:3:67:327:109#0/1
aabb_aaIb`aU]^Y_Z_a`¥¥aa^N_QZ_U_W_NW¥]`U
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+HWI-EAS443:3:68:1164:1492#0/1
][U``bbbaa`bb`^b`bbaaba_^Z^U__`a`aa¥Z¥`¥
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+HWI-EAS443:3:68:134:895#0/1
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+HWI-EAS443:3:68:918:1990#0/1
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+HWI-EAS443:3:69:593:194#0/1
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+HWI-EAS443:3:71:127:664#0/1
ab``bbaaaaa_]^Ya`aba`_Z`a``a`_a```aaa]`_
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+HWI-EAS443:3:71:589:875#0/1
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+HWI-EAS443:3:71:623:427#0/1
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@HWI-EAS443:3:73:394:530#0/1
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+HWI-EAS443:3:73:394:530#0/1
a_aa¥baaabaa`aaa__`a_``_____a_a_N_a]P¥_^_
@HWI-EAS443:3:73:53:272#0/1
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+HWI-EAS443:3:73:53:272#0/1
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@HWI-EAS443:3:74:296:134#0/1
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+HWI-EAS443:3:74:296:134#0/1
¥bba]¥aVabaaXZaa]aaaa]aa^^`aa_a¥a]a[[^a
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@HWI-EAS443:3:75:596:453#0/1
CGGGAGTGCAGATGCAGCGATTCAAGTGATCCTCTCGTCA
+HWI-EAS443:3:75:596:453#0/1
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@HWI-EAS443:3:77:343:1142#0/1
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+HWI-EAS443:3:77:343:1142#0/1
abbbbbbabbb_bba]b`a]a_aaaaaa_baba[a`a`a
@HWI-EAS443:3:77:729:1221#0/1
CTGGGAGTGCAGATGCAGCGATTCAAGTGATCCTCTCGTC
+HWI-EAS443:3:77:729:1221#0/1
abbabababbbbbbbbabbb`abbbbb_bbbabbbbb`
@HWI-EAS443:3:78:543:741#0/1
CTGTGTGCCACTTGTGAACAGATTGCTGATTCACAGCATC
+HWI-EAS443:3:78:543:741#0/1
HP]¥Z``[a][[a_]¥_¥aaVbab¥¥]aaabb`ba`^
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AAGATGACCTTCTTGAATAATTTGCAGGCCTACCAGAAGCA
+HWI-EAS443:3:79:1135:1298#0/1
a[[¥Y`]¥ZZZ_``_TX_^`¥^`aa`_Y]^Z`^a^`_
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+HWI-EAS443:3:79:133:798#0/1
I_bbbbbbbbabbbbbbb_bbb_bbb]abbbababaab
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+HWI-EAS443:3:7:116:880#0/1
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+HWI-EAS443:3:80:112:1127#0/1
aaaaaa[_aaaa_aaaa_aaa_a`____`_S_BBBBBBB
@HWI-EAS443:3:82:317:245#0/1
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]bb_]aa[`U`Uaa^H[`^^YaaaZG¥UY]Ta^`aVWaa]
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+HWI-EAS443:3:83:1281:390#0/1
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+HWI-EAS443:3:83:1299:347#0/1
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`aa]abaababaaaabaaaa_a`a__a_`_¥`a_`[^a_`
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+HWI-EAS443:3:84:1060:422#0/1
^¥T^R_YD[aY[`W¥ORTV_YR_a¥KPY]^PWLuaY[`YY
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+HWI-EAS443:3:85:1529:565#0/1
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+HWI-EAS443:3:88:103:1208#0/1
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+HWI-EAS443:3:89:1438:374#0/1
abb`bbaUabbbbaaaa`abb]a`_abbbaabbabaaaXb`
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+HWI-EAS443:3:89:293:687#0/1
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+HWI-EAS443:3:8:408:859#0/1
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+HWI-EAS443:3:91:1186:903#0/1
a_UEUTb_]N``[aU]ZHa`YT`[]`R`Q_P_SNV_VY[
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+HWI-EAS443:3:92:1459:117#0/1
¥_a[X`_b]]b_abbZbabbbbZbb_bZabaZb`aaSa]F
@HWI-EAS443:3:92:1553:1245#0/1
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+HWI-EAS443:3:92:1553:1245#0/1
a¥Y[ZaaXa__aa_^a__Va[0_`aYR[_`¥``___V_G[
@HWI-EAS443:3:93:279:1122#0/1
CGTCACTGTTCCCATCCTGTTGTATATGAGGCCCATGCAA
+HWI-EAS443:3:93:279:1122#0/1
a`_`a][^P^aa`a_aa`a`_^aa__Y`__[[V___W¥B
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`abbaY`^babba]aaY^ba^aaaa_[_a_`aN_^Ua_]`
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a^`¥¥V¥[a^aXU^^a^VZ`^_]X[`PM`YN[SY¥`YP^
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+HWI-EAS443:3:96:1139:757#0/1
^a`_b_abaaVabaaaa`ba_Y^abYa^`¥aOa`S¥WZBB
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+HWI-EAS443:3:96:371:595#0/1
aaTbYa`]^`^_Y`a`]^`^_`^_`^_YY]^`X[XX]VXX
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+HWI-EAS443:3:99:153:1375#0/1
]a¥_Qbb`aZ`bbab_ZZaSababbaTKWZa]]]JV`^`_
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Ta[bbb[b^abaaababbbbaabbbb_baabaabVab`_a
@HWI-EAS443:3:100:102:1282#0/1
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+HWI-EAS443:3:100:102:1282#0/1
aab__a_V_aaUa`]a_]a`__`[ZY^VJTZXZ^_V_SYB
@HWI-EAS443:3:100:107:974#0/1
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+HWI-EAS443:3:100:107:974#0/1
Q^___a```Yaa`a`_`_bbbbb`ab_^a[aa[`b`U
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+HWI-EAS443:3:100:1164:87#0/1
[_aWb`]V^Z`]aV`]X¥a`^RXSYW[aX_XZW`^ZZaBB
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+HWI-EAS443:3:100:1273:1598#0/1
abaaa_a`[abaaaaab[ab[aaab`]aUaa¥`aWI`W`B
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+HWI-EAS443:3:100:1349:1254#0/1
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+HWI-EAS443:3:100:1403:617#0/1
^bbbbabaa`^aaa_aaaHa^_aa]U_`Ya_aaaY_XBB
@HWI-EAS443:3:100:1549:748#0/1
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+HWI-EAS443:3:100:1549:748#0/1
_`Yabbbbbbb_G`b^bbbaab__bbababaa``aaa`Ua
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+HWI-EAS443:3:100:253:774#0/1
X_`__`_b]bbababbaa]]bab`abaa¥`Vaa`W_a^bN
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+HWI-EAS443:3:100:312:1235#0/1
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+HWI-EAS443:3:100:313:99#0/1
ZZ_]aa^aaaa__`¥Za`P¥`]`]OT][¥TX¥`]Z¥BBBB
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+HWI-EAS443:3:100:343:551#0/1
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+HWI-EAS443:3:100:359:449#0/1
_U`b`V^YU`a^__aabS`^]`^`^_X¥Ra`_]VK¥_U_B
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+HWI-EAS443:3:100:395:751#0/1
`TZO_^XW¥^Z`]`TYPOPX`¥`X]_[R¥[_Q_aQ_YBBB
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+HWI-EAS443:3:100:629:1464#0/1
L_a__aa]¥_aJ^_aP__ZS_0][_``¥ZW¥F_]ZZV^]_

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+HWI-EAS443:3:100:653:749#0/1
a_aa_QRF^a`_]`T^P^_a]^RYYQ^bX_X_RUB
@HWI-EAS443:3:100:742:152#0/1
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+HWI-EAS443:3:100:742:152#0/1
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@HWI-EAS443:3:100:828:1800#0/1
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+HWI-EAS443:3:100:828:1800#0/1
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@HWI-EAS443:3:100:901:21#0/1
GGCCTCATATACAACAGGATGGGAACAGTGACCACAGAAG
+HWI-EAS443:3:100:901:21#0/1
aa`aaabbaa_a`^aaa`_aa¥a_Y`Za^UPXRX`Y^B
@HWI-EAS443:3:10:1162:969#0/1
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+HWI-EAS443:3:10:1162:969#0/1
T`]ZW¥`R`aa[aabababaWX```aZa_bT^X`aaa]bY
@HWI-EAS443:3:10:1308:399#0/1
ACTTGAATCGCTGCATCTGCACTCCCATTTCGTTCTGGTA
+HWI-EAS443:3:10:1308:399#0/1
]_¥^a`aY]_`^a_bb¥aa¥aba[X[^WZaZ`^J^``¥]
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+HWI-EAS443:3:10:1311:1142#0/1
`b`bbaabaabaaa`aa_a_a`a^`aa`a^_Ta```_Y
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+HWI-EAS443:3:10:156:1075#0/1
aabaa`_aaaaaaaa`^_aa_]a`a¥`_^`Y`^Y_____
@HWI-EAS443:3:10:1751:1300#0/1
AACAGTGACCACAGAAGCTGCTTTTGGTCTAGTGTGTGCC
+HWI-EAS443:3:10:1751:1300#0/1
a_W`P^ZU^]aa^`_`WV]¥]`_WHDTWQRYSYMIHT
@HWI-EAS443:3:10:305:1667#0/1
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+HWI-EAS443:3:10:305:1667#0/1
ab_]ba¥bV]V¥U_Y_`a`Wb[_`Q`aWbbaab]`L^aba
@HWI-EAS443:3:10:405:109#0/1
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+HWI-EAS443:3:10:405:109#0/1
a[¥`_^a__^¥__¥Y`_¥¥¥^Y^Y^W^¥YTUWY¥YYWN
@HWI-EAS443:3:10:434:1083#0/1
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+HWI-EAS443:3:10:434:1083#0/1
a____`_¥TYa`^Z¥Y[¥BBBBBBBBBBBBBBBBBBBB
@HWI-EAS443:3:10:462:918#0/1
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+HWI-EAS443:3:10:462:918#0/1
_¥UWVRWTZ[MWZ_UZQVZX]TZXHDILRWBBBBBBBBBBB
@HWI-EAS443:3:10:591:1645#0/1
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+HWI-EAS443:3:10:591:1645#0/1
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+HWI-EAS443:3:10:606:1081#0/1
aaaaaaaa`aaa`aaa_aaaa¥[`_]aa__¥[Sa_^`]W`
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+HWI-EAS443:3:10:619:1798#0/1
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+HWI-EAS443:3:10:626:1689#0/1
aaa_aa_aa`a__`_aYa¥__a]__¥___`¥_`YaWT]^
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+HWI-EAS443:3:10:634:1368#0/1
aaaa_PST_RV`a_H¥]YP¥_¥[YZ^_T^¥TPPU^¥]T[
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+HWI-EAS443:3:10:645:158#0/1
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+HWI-EAS443:3:10:699:1759#0/1
¥aPGV`XW]U`Za_XW]a^Z¥Yaa^aa`aZa^__[_`_Q¥^
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+HWI-EAS443:3:10:727:1479#0/1
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@HWI-EAS443:3:10:735:769#0/1
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+HWI-EAS443:3:10:735:769#0/1
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+HWI-EAS443:3:10:825:1890#0/1
aaa`b`_aaX]_a___a¥_^Z`^`W_¥^¥¥WWW¥UW¥STU
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+HWI-EAS443:3:10:889:680#0/1
a`aaa¥a`aaaa]^a_a]^V`_^__Y_^_]^[^]_[_]_
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+HWI-EAS443:3:10:915:471#0/1
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+HWI-EAS443:3:10:972:1314#0/1
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+HWI-EAS443:3:10:988:1609#0/1
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@HWI-EAS443:3:11:101:1143#0/1
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+HWI-EAS443:3:11:101:1143#0/1
aaa_baaab_`Z]aPTZa^W_]` `____XQXS[¥_]TV^
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+HWI-EAS443:3:11:1020:1154#0/1
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+HWI-EAS443:3:11:107:1748#0/1
abaabaab`a_Z`ba`_^`a_a``aa[V^__`Ya___`a
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+HWI-EAS443:3:11:1119:243#0/1
abbaabbababa`b^abbbbaa``Xaa`aa`a_^W`_`b`
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+HWI-EAS443:3:11:112:1769#0/1
abaaWQ_aa]a]¥]Z`]aaZa`___Za_aa_``_``^`__
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ACTTGAATCGCTGCATCTGCACTCCCATTTCGCTTCTGGTA
+HWI-EAS443:3:11:1184:127#0/1
`Lbbba_a```_`Z_¥Z^a_ZY[_WW¥¥TW^G^VW_GZWW
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+HWI-EAS443:3:11:1375:844#0/1
abaaaaaaaaaVWa]aaa__a`````a][^^R_T[___^¥
@HWI-EAS443:3:11:1433:984#0/1
GTCCCAATAGTTCTCATTGCATGTACCATCTGCCTAGTCT
+HWI-EAS443:3:11:1433:984#0/1
a^___`a^VZ_]Y^Y_¥^]_]_[Y^]X]_XY^VWWY^
@HWI-EAS443:3:11:1513:1525#0/1
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+HWI-EAS443:3:11:1513:1525#0/1
``_Z¥^V]^X]^R`W¥[_` `OZ_^V[X_] ^¥Y¥X^¥GXWR
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+HWI-EAS443:3:11:1755:632#0/1
a`_aa`__ba[¥`¥U`^`a_a^__S^YaY^` [XWX][XM[
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+HWI-EAS443:3:11:225:1200#0/1
aaaaab_b_`^a_ba_`aaaaaXXZXa_`^__W]``__^_]
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+HWI-EAS443:3:11:225:42#0/1
aa`a]a_`aaa__`W^a`aa^_`a__a^a^a^]¥_`^__
@HWI-EAS443:3:11:245:1259#0/1
GACCGATGCTGTGAATCAGCAATCTGTTCAACAAGTGGCAC
+HWI-EAS443:3:11:245:1259#0/1
a¥ba_V_ababZ]WZabba_a`babb`^`]]`a0`Z`a`
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+HWI-EAS443:3:11:263:1720#0/1
a]aba_`a_`^_¥]_aa[¥_`^¥__`^¥_¥ZZ]`^S¥`_¥¥B
@HWI-EAS443:3:11:432:641#0/1
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+HWI-EAS443:3:11:432:641#0/1
Y^`^Y^]T0^`_`]¥aaa_W_a`aaWa`Y¥][]_`V`__`
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+HWI-EAS443:3:11:458:413#0/1
a_aaaa_a`_b¥aa`X_`^aaa^a]`aW¥]¥^Z^WW¥¥¥W¥
@HWI-EAS443:3:11:508:181#0/1
CAATGACGAGAGGATCACTTGAATCGCTGCATCTGCACTC
+HWI-EAS443:3:11:508:181#0/1
aaaa¥PN_`bbaa^[_`Y`¥`a]T`¥[__aXXU`¥^Q¥V
@HWI-EAS443:3:11:602:97#0/1
ACAGTGACCACAGAAGCTGCTTTTGGTCTAGTGTGTGCCA
+HWI-EAS443:3:11:602:97#0/1
abbb]abb_aaabbaa__a_aa`YbV_a`XR[N¥LXR_`
@HWI-EAS443:3:11:647:478#0/1
ATGGGCCTCATATACAACAGGATGGGAACAGTGACCACAG
+HWI-EAS443:3:11:647:478#0/1
aa]aa]aaa]aaaaaaa^_a`_`_aa`_`_`]a_Uaa^H[^
@HWI-EAS443:3:11:659:179#0/1
GGAGGTTGCTAATCAGACTAGGCAGATGGTACATGCAATG
+HWI-EAS443:3:11:659:179#0/1
aaTabM]`aYY_`_a^S^^`_`^]NY¥_V^RZZ^]]WWW
@HWI-EAS443:3:11:681:1406#0/1
ATATACAACAGGATGGGAACAGTGACCACAGAAGCTGCTT
+HWI-EAS443:3:11:681:1406#0/1
`abababbbY`baaaaa`b^aa]aaa_`^a`ba^^[_`¥]_
@HWI-EAS443:3:11:706:1187#0/1
CCTGTTCACTCGATCCAGCCATCTGTTCCATAGCCTTTGC
+HWI-EAS443:3:11:706:1187#0/1
bb`aaa`bbbaab¥Q`^W`_`_`_`_a][Y]aY]¥`¥a`a`]
@HWI-EAS443:3:11:792:1492#0/1
GGAGGTTGCTAATCAGACTAGGCAGATGGTACATGCAATG
+HWI-EAS443:3:11:792:1492#0/1
]¥]a`XT¥`^`Y`bVV_aaa[¥`_`¥¥aI`[^MaY]_`_`OR

@HWI-EAS443:3:11:816:1206#0/1
GGTACATGCAATGAGA ACTATTGGGACTCATCCTAGCTCC
+HWI-EAS443:3:11:816:1206#0/1
aaUaaaa^aa_aa_`_`_aaaa_____^]_^YX]^_^XT
@HWI-EAS443:3:11:99:1417#0/1
GATATTTGCTGCAATGACGAGAGGATCACTTGAATCGCTG
+HWI-EAS443:3:11:99:1417#0/1
aa`aba_a__aaa_]`aaa[_`a__NN_Y^____`]]XU_U
@HWI-EAS443:3:12:1119:720#0/1
CCAAGGAGGTGTCAC TAAGCTATTCAACTGGTGCACCTTGC
+HWI-EAS443:3:12:1119:720#0/1
aaaaaaaa^a[`__aaaaaa`__`aaR_^_Z_^W`__`^____Z
@HWI-EAS443:3:12:1171:806#0/1
ACGGCAAAGGCTATGGAACAGATGGCTGGATCGAGTGAAC
+HWI-EAS443:3:12:1171:806#0/1
aabba)`a`^`)]`TW_N][P_^]V]Q]R`[^P^Y^U¥YBB
@HWI-EAS443:3:12:1240:365#0/1
GGTACATGCAATGAGA ACTATTGGGACTCATCCTAGCTCC
+HWI-EAS443:3:12:1240:365#0/1
aZQ^^`_aaXX^a_`¥`^aaYR`VaZ^NZ¥TP¥Z_¥Y¥WT
@HWI-EAS443:3:12:124:197#0/1
GAACAGTGACCACAGAAGCTGCTTTTGGTCTAGTGTGTGC
+HWI-EAS443:3:12:124:197#0/1
^`_b`_TZ[bb^_^bbaa_a__a_[`YPZ^__PVU_V[U
@HWI-EAS443:3:12:1297:406#0/1
CAGTGACCACAGAAGCTGCTTTTGGTCTAGTGTGTGCCAC
+HWI-EAS443:3:12:1297:406#0/1
aab`bbaabababaa_aa_a`^`a`^`a`^`^`_Y_]_]_U
@HWI-EAS443:3:12:1303:603#0/1
TGTCTGTGAGACCGATGCTGTGAATCAGCAATCTGTTTAC
+HWI-EAS443:3:12:1303:603#0/1
aba`aa__a`_PXa]a]aab^a`aa^a`[^aa_a`_]T[Z
@HWI-EAS443:3:12:1361:316#0/1
CTTTCCTGCAAAGACACTTTCCAGTCTCTGCGGATCTCG
+HWI-EAS443:3:12:1361:316#0/1
aabab__`bb¥b_] [Taab^Z_aXabaaaabab^MW¥^a
@HWI-EAS443:3:12:1367:1609#0/1
CATGGCCTCATATACAACAGGATGGGAACAGTGACCACA
+HWI-EAS443:3:12:1367:1609#0/1
WV`bZ_JT`b[bb]b^`_Z__¥`_bbb`[^a¥0[¥_I[ab
@HWI-EAS443:3:12:1387:454#0/1
ATGGGCCTCATATACAACAGGATGGGAACAGTGACCACAG
+HWI-EAS443:3:12:1387:454#0/1
aaaaa]_aa`aaa^]_a`aaa¥_aR¥__¥``Va__¥¥Y_`
@HWI-EAS443:3:12:1399:525#0/1
GGAGTGCAGATGCAGCGATTCAAGTGATCCTCTCGTCATT
+HWI-EAS443:3:12:1399:525#0/1
ab`b[_a_`¥`_aaa[a_`__^X¥`a`LU_Wa¥PNW^`B
@HWI-EAS443:3:12:1439:707#0/1
CGATGCTGTGAATCAGCAATCTGTTTCAAGTGGCACACA

+HWI-EAS443:3:12:1439:707#0/1
^[FYWZ_bW]X^`^T`_T`^X[TR`a]QNRU[_FYGL
@HWI-EAS443:3:12:1461:1338#0/1
GCTGGCTAGCACTACGGCAAAGCTATGGAACAGATGGCT
+HWI-EAS443:3:12:1461:1338#0/1
a[aX_NRa\$SOQVZBBBBBBBBBBBBBBBBBBBBBBBBB
@HWI-EAS443:3:12:1617:1851#0/1
GATGGTACATGCAATGAGAACTATTGGGACTCATCCTAGC
+HWI-EAS443:3:12:1617:1851#0/1
aaSaaQaQ`_`_SPQZ^VJSZFT^\$NWY`ZGN`WUTBBBB
@HWI-EAS443:3:12:1676:1493#0/1
GGAGTGCAGATGCAGCGATTCAAGTGATCCTCTCGTCATT
+HWI-EAS443:3:12:1676:1493#0/1
`XU_PaZVWXO[^UH0\$PT^`\$KZ`_UH\$NWJFRBBBB
@HWI-EAS443:3:12:1712:1999#0/1
CAACAGGATGGGAACAGTGACCACAGAAGCTGCTTTTGGT
+HWI-EAS443:3:12:1712:1999#0/1
aab`_`_baabaQ`SY`U`aT`^U`_a`aV`_N`_aZ`W
@HWI-EAS443:3:12:182:973#0/1
GGGCCTCATATAACAAGGATGGGAACAGTGACCACAGAA
+HWI-EAS443:3:12:182:973#0/1
a`a```aaaa`\$`][^^`\$\$`_a_X_a^Z^`_ZSW
@HWI-EAS443:3:12:269:342#0/1
CACACTAGACCAAAAAGCAGCTTCTGTGGTCACTGTTCCCA
+HWI-EAS443:3:12:269:342#0/1
aaa_a`aaaa`a_aa_a`^`a`_]X`^UZ`_X_X[\$^Y_
@HWI-EAS443:3:12:275:1212#0/1
GACCAAAAGCAGCTTCTGTGGTCACTGTTCCCATCCTGTT
+HWI-EAS443:3:12:275:1212#0/1
abba^V`_bbaaa^X\$`_Z```^Lyz^`_[YV]`_T`]
@HWI-EAS443:3:12:379:94#0/1
GGGCCTCATATAACAAGGATGGGAACAGTGACCACAGAA
+HWI-EAS443:3:12:379:94#0/1
`baaabb`a`_a`b`\$`_ba`_aaa`_`_a`Uaa\$`_[W`_dM`]
@HWI-EAS443:3:12:386:1360#0/1
GCCTCAAGATCTGTGTTCTTTCTGCAAAGACTTTCCA
+HWI-EAS443:3:12:386:1360#0/1
aaa]THVZJXa`a[^TaaS]`_]S]X`_Wa`_`_Y]Y]YWGP
@HWI-EAS443:3:12:396:308#0/1
GCCTCATATAACAAGGATGGGAACAGTGACCACAGAAGC
+HWI-EAS443:3:12:396:308#0/1
a`^```aaaaa`a\$V]aZ`^`_]U[WZ^T_]X`\$`]`_VWUW
@HWI-EAS443:3:12:46:1966#0/1
GGGCCTCATATAACAAGGATGGGAACAGTGACCACAGAA
+HWI-EAS443:3:12:46:1966#0/1
aa`bbabbabbabb`a\$`]`aa^a`_a`_aaWaaaaaaaa`_
@HWI-EAS443:3:12:47:539#0/1
ATACAAGAAGCTCAAAAGAGAAATAACGTTCCATGGGGCC
+HWI-EAS443:3:12:47:539#0/1
[aaaaaa`_a]bab\$`]_YX`_Xa`_[a]ZVWLZ`_]Z]`_``_`]

@HWI-EAS443:3:12:484:1165#0/1
GAAAGATGACCTTCTTGAAAATTTGCAGGCCTACCAGAAG
+HWI-EAS443:3:12:484:1165#0/1
V[aaaaaZba`aaaba__bbaaaY_a`a_a^^^_Y`__a
@HWI-EAS443:3:12:497:1112#0/1
GACCGATGCTGTGAATCAGCAATCTGTTACACAAGTGGCAC
+HWI-EAS443:3:12:497:1112#0/1
a``T^Y__aaaG¥`_U_WVRTY]^]^YZTNLROUMMZR^W
@HWI-EAS443:3:12:503:1115#0/1
GATAAATACATTTGAAAAAAGACGATCAGTAATCCACAA
+HWI-EAS443:3:12:503:1115#0/1
¥NG_VU[U_XR][YUZQ]QYO¥M]_^Y[UZTZZT¥RSSYP
@HWI-EAS443:3:12:637:165#0/1
GAATCGCTGCATCTGCACTCCCATTGCTTCTGGTAGGCC
+HWI-EAS443:3:12:637:165#0/1
`aaa¥aa_a`a_a_^J[_`_Y^[Z^^_UTWS¥XVW¥¥^QB
@HWI-EAS443:3:12:702:1056#0/1
CAAGATTGGTCTTGTCTTTAGCCATTCCATGAGAGCCTCA
+HWI-EAS443:3:12:702:1056#0/1
W``baaa¥`Ybbb`]aaa`b`]Uaa`a^_abaaaaS`Z`
@HWI-EAS443:3:12:756:983#0/1
GCTAGGATGAGTCCCAATAGTTCTCATTGCATGTACCATC
+HWI-EAS443:3:12:756:983#0/1
Z^¥bab`[SWa_aa`aa`_]_^__`__a_a`Y^a^_]¥]
@HWI-EAS443:3:12:823:273#0/1
CAATAGTTCTCATTGCATGTACCATCTGCCTAGTCTGATT
+HWI-EAS443:3:12:823:273#0/1
a^b]N_aY^^[ba`S`^a`_¥X]aaa[aYRYZ^^````_
@HWI-EAS443:3:12:847:728#0/1
CGAGAGGATCACTTGAATCGCTGCATCTGCACTCCCATTC
+HWI-EAS443:3:12:847:728#0/1
abbaaaaaaaaa`aaaaaab`_`a_a`_`a`_`a____`_S
@HWI-EAS443:3:12:865:779#0/1
TACTGATCGTCTTTTTTTCAAATGTATTTATCGTCGCTTT
+HWI-EAS443:3:12:865:779#0/1
X¥```aba^aaY_ba`Y`bb^bbb]``__XX]^LYbaa^¥
@HWI-EAS443:3:12:908:647#0/1
GTCCCCATTCCCATTTAGGGCATTGGACAAAGCGTCTA
+HWI-EAS443:3:12:908:647#0/1
`¥[_Z¥`K`aZ_bbaaQ¥¥^__^^]`a`XY^^aXb`]^Z
@HWI-EAS443:3:12:93:207#0/1
TTGGTCTAGTGTGTGCCACTTGTGAACAGATTGCTGATTC
+HWI-EAS443:3:12:93:207#0/1
`^]SR_^bbY]aZ`^^a_a`^a]X]]]```YJ¥^¥ZZ_]_
@HWI-EAS443:3:12:982:631#0/1
ATCAGACTAGGCAGATGGTACATGCAATGAGA ACTATTGG
+HWI-EAS443:3:12:982:631#0/1
`¥]aba^[a_Y`aa`^XZ`[Y__P_a_]_]VaSa`__[_
@HWI-EAS443:3:12:989:524#0/1
CAATGACGAGAGGATCACTTGAATCGCTGCATCTGCACTC

+HWI-EAS443:3:12:989:524#0/1
aa`aa`a_a^`_]_¥^[¥aa_¥_¥_^^_¥_^Q_`W_Y¥V
@HWI-EAS443:3:13:1031:1350#0/1
ATTTGAAAAAAGACGATCAGTAATCCACAATATCAGGTG
+HWI-EAS443:3:13:1031:1350#0/1
abbaaa__aaa__`aa]]_Y^_WV^^¥`^)^[[^YU¥
@HWI-EAS443:3:13:1140:1736#0/1
TGATCCTCTCGTCATTGCAGCAAATATCATTGGGATCTTG
+HWI-EAS443:3:13:1140:1736#0/1
`b_aaab^a_a_`Y`aa^]a_]`a`]]^]¥¥_`]Y¥Z¥
@HWI-EAS443:3:13:1152:1330#0/1
CAGCAATCTGTTCAAGTGGCACACACTAGACCAAAGC
+HWI-EAS443:3:13:1152:1330#0/1
aabaa`a^ab_aaa^aa`]aab`a_`]``_Y_a__`_`
@HWI-EAS443:3:13:1391:1333#0/1
CTGTGAATCAGCAATCTGTTCAAGTGGCACACACTAGA
+HWI-EAS443:3:13:1391:1333#0/1
a]F[bbbbbbb`bbaaab]aaaaa_UU^aa_a_a`_a`
@HWI-EAS443:3:13:1419:1446#0/1
TGCACCTGATATTGTGGATTACTGATCGTCTTTTTTTCAA
+HWI-EAS443:3:13:1419:1446#0/1
W¥¥baabaa^^`Y^Vaabb`]¥ba^aa_VV^][abaa_aS
@HWI-EAS443:3:13:1510:313#0/1
ATCCCAATGATATTTGCTGCAATGACGAGAGGATCACTTG
+HWI-EAS443:3:13:1510:313#0/1
```]abaabaaa\_aa`^a\_a\_```a[`a\_\_a]¥\_\_WYa¥¥  
@HWI-EAS443:3:13:1516:1957#0/1  
CAAGATTGGTCTTGTCTTTAGCCATTCCATGAGAGCCTCA  
+HWI-EAS443:3:13:1516:1957#0/1  
a`aY`a]UVa\_^]PHUaY][0a`^[[^][U[\_N][M[GT  
@HWI-EAS443:3:13:1580:877#0/1  
TGGGCCTCATATACAACAGGATGGGAACAGTGACCACAGA  
+HWI-EAS443:3:13:1580:877#0/1  
abbaa`a[ababaaaa`aba`aab\_`a^ab\_a`]Y]]a`^  
@HWI-EAS443:3:13:1605:408#0/1  
CGTCATTGCAGCAAATATCATTGGGATCTTGACCTGATA  
+HWI-EAS443:3:13:1605:408#0/1  
`ba`aa`K\_a^aa`a`a]a`\_a\_\_\_`X`aa¥^ZZa\_]\_]`  
@HWI-EAS443:3:13:1632:648#0/1  
GCCGAGATCGCGCAGAGACTGGAAAGTGTCTTTGCAGGAA  
+HWI-EAS443:3:13:1632:648#0/1  
ab\_bTbZRYaaa]\_\_`a`]a\_VZ¥]a¥aSG]Q`X^^`\_S¥  
@HWI-EAS443:3:13:165:778#0/1  
CAATAGTTCTCATTGCATGTACCATCTGCCTAGTCTGATT  
+HWI-EAS443:3:13:165:778#0/1  
aaaabaZaaabaaaaaa`\_aa`a\_a`a`aaab^aaa`^\_  
@HWI-EAS443:3:13:184:974#0/1  
ACCTGATATTGTGGATTACTGATCGTCTTTTTTTCAAATG  
+HWI-EAS443:3:13:184:974#0/1  
aabbbbaaaaab\_ba`a`]a`aaaa\_aaaaaa\_aa`aa



@HWI-EAS443:3:13:320:476#0/1  
CAAAAGAGAAATAACGTTCCATGGGGCCAAGGAGGTGTCA  
+HWI-EAS443:3:13:320:476#0/1  
]bb]\_babaab````\_aa`aaaab\_\_aZ[^\_a\_`\_^Va\_\_a  
@HWI-EAS443:3:13:356:440#0/1  
GATCACTTGAATCGCTGCATCTGCACTCCCATTCGCTTCT  
+HWI-EAS443:3:13:356:440#0/1  
Z^¥[K^b^]¥Z\_UV\_X^`a\_\_¥`ZH`\_^¥¥KPPYLY`¥¥\_  
@HWI-EAS443:3:13:415:303#0/1  
CAAACCGTATTTAAAGCGACGATAAATACATTTGAAAAAA  
+HWI-EAS443:3:13:415:303#0/1  
aabbaab^aaa`````aa`aa\_^[\\_][^\_\_\_\_^\_[\_\_  
@HWI-EAS443:3:13:526:1471#0/1  
GACGAGAGGATCACTTGAATCGCTGCATCTGCACTCCCAT  
+HWI-EAS443:3:13:526:1471#0/1  
aabaa`]aaaaaZ``ZaW\_¥aa\_V[a^`\_`aQ`¥^YSW\_X  
@HWI-EAS443:3:13:549:1120#0/1  
GAAAGATGACCTTCTTGAAAATTTGCAGGCCTACCAGAAG  
+HWI-EAS443:3:13:549:1120#0/1  
`¥Y`bb`abaaaaabbbbbbbababaaaaaabbaa`ab  
@HWI-EAS443:3:13:608:1536#0/1  
GAAAGATGACCTTCTTGAAAATTTGCAGGCCTACCAGAAG  
+HWI-EAS443:3:13:608:1536#0/1  
a^U^R^a^WR]``]a``^^`PXU¥aa]^a`^a]a\_`\_]\_  
@HWI-EAS443:3:13:61:1725#0/1  
GATCAGTAATCCACAATATCAGGTGCAAGATCCCAATGAT  
+HWI-EAS443:3:13:61:1725#0/1  
Z\_^aX\_IZ]`a^]aaabaa`abZTa`Y`¥a\_W]\_¥a\_a`V  
@HWI-EAS443:3:13:622:1040#0/1  
TGGGCCTCATATACAACAGGATGGGAACAGTGACCACAGA  
+HWI-EAS443:3:13:622:1040#0/1  
aa^]Z`a]U`^[aba`aa[aZab\_Za]aa\_aa\_\_\_\_a[¥  
@HWI-EAS443:3:13:665:1219#0/1  
GACCACAGAAGCTGCTTTTGGTCTAGTGTGTGCCACTTGT  
+HWI-EAS443:3:13:665:1219#0/1  
`abaabb]\_`a]b\_SI\_X\_aaP[¥b^[Z[\_¥^\_T`]U]aY  
@HWI-EAS443:3:13:692:1806#0/1  
GATCCCAATGATATTTGCTGCAATGACGAGAGGATCACTT  
+HWI-EAS443:3:13:692:1806#0/1  
aaU^]W`^Z^a``TX`bb`b`T\_X```[^`][NNTYBBBB  
@HWI-EAS443:3:13:785:1601#0/1  
CCTTCTTGAAAATTTGCAGGCCTACCAGAAGCGAATGGGA  
+HWI-EAS443:3:13:785:1601#0/1  
abaa`ab^^aaa\_aaaab[a\_\_aY]\_aaaa`\_a¥\_a]S`¥  
@HWI-EAS443:3:13:957:244#0/1  
GGTACATGCAATGAGAACTATTGGGACTCATCCTAGCTCC  
+HWI-EAS443:3:13:957:244#0/1  
ab\_a\_a^^a\_a`]\_`¥\_`^aZa\_\_¥^a\_]\_`\_¥V\_\_\_W\_WN  
@HWI-EAS443:3:13:994:350#0/1  
CTTGTGAACAGATTGCTGATTCACAGCATCGGTCTCACAG

+HWI-EAS443:3:13:994:350#0/1  
a`aaJb`\_Zb\_\_a\_a]aa`X¥`[Z\_P^]`[X]\_YXX[B  
@HWI-EAS443:3:14:1192:309#0/1  
GCGACGATAAATACATTTGAAAAAAGACGATCAGTAATC  
+HWI-EAS443:3:14:1192:309#0/1  
a]V¥0]L\_Y\_`T[V\_aaQWZQS]TNXLLTWOQP`GTYBB  
@HWI-EAS443:3:14:1249:1302#0/1  
GACCGATGCTGTGAATCAGCAATCTGTTCAACAAGTGGCAC  
+HWI-EAS443:3:14:1249:1302#0/1  
]baZa]`YU¥GKVWXP[a¥^ZXTVa\_S[NQKYGUF\_]OUU  
@HWI-EAS443:3:14:1272:358#0/1  
ATCGCTGCATCTGCACTCCCATTCGTTCTGGTAGGCCTG  
+HWI-EAS443:3:14:1272:358#0/1  
aaaba\_a`aa`[bY\_[^a\_^¥`\_Xa¥\_\_¥`XYUV^ZWWW\_  
@HWI-EAS443:3:14:1321:1048#0/1  
ACTAGACCAAAGCAGCTTCTGTGGTCACTGTTCCCATCC  
+HWI-EAS443:3:14:1321:1048#0/1  
aabaaaaab`aaa`\_a`\_Ya][\_R\_^]^VZ^UZ\_^W^  
@HWI-EAS443:3:14:1332:1743#0/1  
ATGGGCCTCATATACAACAGGATGGGAACAGTGACCACAG  
+HWI-EAS443:3:14:1332:1743#0/1  
a\_aaaaXa\_\_aaaa`aa^aaQ¥`¥^\_¥¥`¥\_]^U\_\_\_Y  
@HWI-EAS443:3:14:1481:1387#0/1  
CACACTAGACCAAAGCAGCTTCTGTGGTCACTGTTCCCA  
+HWI-EAS443:3:14:1481:1387#0/1  
ab`aaa`aa\_\_aaaa`aaa\_\_a^a\_]a[X\_^X^\_X]RZ\_`  
@HWI-EAS443:3:14:1489:442#0/1  
ATCGTCTTTTTTCAAATGTATTTATCGTCGCTTTAAATA  
+HWI-EAS443:3:14:1489:442#0/1  
a`bb`aaaabaab\_^`a^`V]`\_]\_\_[][¥W¥^`a¥\_] ] ] ]  
@HWI-EAS443:3:14:1632:904#0/1  
CTGTGAGACCGATGCTGTGAATCAGCAATCTGTTCAACAAG  
+HWI-EAS443:3:14:1632:904#0/1  
¥Sa^\_`bbbbbb`b`ab]baabXaaZ^a`^bb[XXa`\_`\_a  
@HWI-EAS443:3:14:1637:210#0/1  
CAGGTGCAAGATCCCAATGATATTTGCTGCAATGACGAGA  
+HWI-EAS443:3:14:1637:210#0/1  
aaaZa\_]aaa[[VH^[S\_a\_S^\_a`\_^\_X^^W^]X[SV]  
@HWI-EAS443:3:14:1668:711#0/1  
CACAAGTGGCACACACTAGACCAAAGCAGCTTCTGTGGT  
+HWI-EAS443:3:14:1668:711#0/1  
abbbbbaaaaab`aaa¥aaaa\_aaaa`b`\_a\_a`\_\_\_ZZ]U  
@HWI-EAS443:3:14:1729:437#0/1  
GTGTGCCACTTGTGAACAGATTGCTGATTCACAGCATCGG  
+HWI-EAS443:3:14:1729:437#0/1  
\_X\_XQEXa]aa\_Y]a[S¥`\_`\_^\_aa^WU[V[\_Z\_] ] ] ]  
@HWI-EAS443:3:14:201:789#0/1  
AGAGAAATAACGTTCCATGGGGCCAAGGAGGTGTCACTAA  
+HWI-EAS443:3:14:201:789#0/1  
aa`\_`\_`\_`aaaa\_]a`a`\_XY^\_aa¥`QX^U^`\_] ] ] ]

@HWI-EAS443:3:14:259:1793#0/1  
CAAGTGGCACACACTAGACCAAAGCAGCTTCTGTGGTCA  
+HWI-EAS443:3:14:259:1793#0/1  
aaaZP¥[baaa`a`[¥^`a``\_\_\_\_[`a¥[¥¥`W^WTTVT\_  
@HWI-EAS443:3:14:347:97#0/1  
GTCTAGTGTGTGCCACTTGTGAACAGATTGCTGATTCACA  
+HWI-EAS443:3:14:347:97#0/1  
a^a`aa\_`^aX`]]`\_\_\_\_^`\_`]]`\_\_]]X^`^\_AU^U\_  
@HWI-EAS443:3:14:363:542#0/1  
TGACCACAGAAGCTGCTTTTGGTCTAGTGTGTGCCACTTG  
+HWI-EAS443:3:14:363:542#0/1  
]babZX\_abb^bbaaab\_OU\_¥`aaab]a]^aa]]R[\_\_\_  
@HWI-EAS443:3:14:459:1861#0/1  
GCCTCATATACAACAGGATGGGAACAGTGACCACAGAAGC  
+HWI-EAS443:3:14:459:1861#0/1  
abaaaa\_`aa`aZa\_`````a¥`\_S^a\_W\_]a]\_^Z]  
@HWI-EAS443:3:14:475:106#0/1  
TGTGAATCAGCAATCTGTTCAAGTGGCACACACTAGAC  
+HWI-EAS443:3:14:475:106#0/1  
\_aa`abaa]aa^`^aaaa]aa\_aa]\_a`\_b^a]a\_^\_\_\_\_^  
@HWI-EAS443:3:14:48:1800#0/1  
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+HWI-EAS443:3:14:48:1800#0/1  
]VWX\_OP]\_YPYRHT`QW[]]WV[][\_`W`MEW[SQ¥[BB  
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ATACAAGAAGCTCAAAGAGAAATAACGTTCCATGGGGCC  
+HWI-EAS443:3:14:546:1202#0/1  
aaaa`\_]\_]aa`\_a]\_\_`a[aa`aaR\_Z^]]`^^Z\_\_UY  
@HWI-EAS443:3:14:565:844#0/1  
CAGCAATCTGTTCAAGTGGCACACACTAGACCAAAGC  
+HWI-EAS443:3:14:565:844#0/1  
abaa^^]\_a¥\_Z\_^[\`a[Y¥Taa`aY\_\_^^`\_TV]^`\_\_ZU  
@HWI-EAS443:3:14:598:527#0/1  
ATCAGGTGCAAGATCCCAATGATATTTGCTGCAATGACGA  
+HWI-EAS443:3:14:598:527#0/1  
a\_aZa¥W`¥MU`\_\_`\_\_^^`Z^[aa^^Y`\_X\_^\_`[]\_^  
@HWI-EAS443:3:14:622:830#0/1  
GTGAGACCGATGCTGTGAATCAGCAATCTGTTCAAGTG  
+HWI-EAS443:3:14:622:830#0/1  
aa¥¥]a`b`WZ`ZU]]\_Y^a[\`a`^¥^a]\_^[V\_\_aXW  
@HWI-EAS443:3:14:776:990#0/1  
GATGAGTCCCAATAGTTCTCATTGCATGTACCATCTGCCT  
+HWI-EAS443:3:14:776:990#0/1  
aaa`^a0`aaVVTY[G^a\_[\_JU^`Y¥^Y\_]\_``V]U]^  
@HWI-EAS443:3:14:785:554#0/1  
GGCCTCATATACAACAGGATGGGAACAGTGACCACAGAAG  
+HWI-EAS443:3:14:785:554#0/1  
aa[a^b\_^^bb`Q]^`^^aa`^Z\_]U]ZUZ``\_aY`a  
@HWI-EAS443:3:14:832:1278#0/1  
ATCTGTTCAAGTGGCACACACTAGACCAAAGCAGCTT

+HWI-EAS443:3:14:832:1278#0/1  
aaaaa`^¥Ya]a]`a`a\_\_`\_a]`a\_X\_\_Z\_]\_[-^^[Y  
@HWI-EAS443:3:14:849:196#0/1  
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+HWI-EAS443:3:14:849:196#0/1  
abbaaab]W\_aXa\_ab\_aa^a\_\_\_\_\_]\_`\_\_V\_^Q\_^¥USS  
@HWI-EAS443:3:14:86:333#0/1  
GCCTCATATACAACAGGATGGGAACAGTGACCACAGAAGC  
+HWI-EAS443:3:14:86:333#0/1  
abb[`aaaa^baa\_aa`¥[[a`¥`^`\_X]a``\_a]YYQ`X  
@HWI-EAS443:3:14:873:186#0/1  
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+HWI-EAS443:3:14:873:186#0/1  
a][VU¥]`aWSZ[Y]W^\_¥]Y]]YYVVXX]VTVRUWVZVV  
@HWI-EAS443:3:14:940:1787#0/1  
ATTTGCTGCAATGACGAGAGGATCACTTGAATCGCTGCAT  
+HWI-EAS443:3:14:940:1787#0/1  
\_WV\_\_¥Z¥\_\_a¥Z`a^a^`^¥aXbS\_]b]bbaa¥RHYa¥X  
@HWI-EAS443:3:14:943:1917#0/1  
GCCTCATATACAACAGGATGGGAACAGTGACCACAGAAGC  
+HWI-EAS443:3:14:943:1917#0/1  
]\_^`\_`\_baa`Y]b\_bbUaaaXXQ¥SaaR`^^]a¥XaZY  
@HWI-EAS443:3:14:968:873#0/1  
CTGTGGTCACTGTTCCCATCCTGTTGTATATGAGGCCCAT  
+HWI-EAS443:3:14:968:873#0/1  
a`a]aaa`\_\_abaa^aa`aa\_aa^aba`aa`\_\_\_\_^Z¥]\_\_  
@HWI-EAS443:3:14:972:1648#0/1  
ATGCCCTAAATGGGAATGGGGACCCGAACAACATGGATAG  
+HWI-EAS443:3:14:972:1648#0/1  
a]a`\_\_^\_a\_^`\_^\_¥^^¥RR]ZWZ]¥ZWZ^Z^]\_WBBBB  
@HWI-EAS443:3:15:1015:518#0/1  
TGGGCCTCATATACAACAGGATGGGAACAGTGACCACAGA  
+HWI-EAS443:3:15:1015:518#0/1  
]b]aa[baa\_\_\_b[`aa\_[aa`^^Qa\_]bYadW``a`\_]`  
@HWI-EAS443:3:15:1197:1721#0/1  
ACTTGAATCGCTGCATCTGCACTCCCATTCGCTTCTGGTA  
+HWI-EAS443:3:15:1197:1721#0/1  
ab\_ababba``a\_X`aaaaaa`aa\_^¥\_[Z]a`a`X`]`  
@HWI-EAS443:3:15:1262:2007#0/1  
CGTCTTTTTTCAAATGTATTTATCGTCGCTTTAAATACG  
+HWI-EAS443:3:15:1262:2007#0/1  
ab¥bbba\_bba^abbb^Tabbbab`b``baaabbbabaI`  
@HWI-EAS443:3:15:1369:101#0/1  
GTGAGACCGATGCTGTGAATCAGCAATCTGTTCAAGTG  
+HWI-EAS443:3:15:1369:101#0/1  
^R¥[¥Xa¥]\_`a^\_TL\_OHVRX^^¥WXSUULRQLQUW]QB  
@HWI-EAS443:3:15:1507:2012#0/1  
GCTTTTGGTCTAGTGTGTGCCACTTGTGAACAGATTGCTG  
+HWI-EAS443:3:15:1507:2012#0/1  
¥abba\_¥[aab`bba`]`\_^a]]`aZaa``¥¥`[^a````

@HWI-EAS443:3:15:1510:583#0/1  
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+HWI-EAS443:3:15:1510:583#0/1  
[`bbba[baaa^bUabaaZ`a`]a`WXaXaa\_\_XW][VSY  
@HWI-EAS443:3:15:1721:1142#0/1  
GAGACCGATGCTGTGAATCAGCAATCTGTTCAAGTGGC  
+HWI-EAS443:3:15:1721:1142#0/1  
RZ^\_V\_\_\_\_[¥U[\_a\_ba]\_]\_K]¥YUY]RZOX^TY¥H¥¥a  
@HWI-EAS443:3:15:222:1461#0/1  
GAACAGTGACCACAGAAGCTGCTTTTGGTCTAGTGTGTGC  
+HWI-EAS443:3:15:222:1461#0/1  
aV\_]¥a\_]`a¥\_]abaaba[\_`Y`\_\_a[S]a[]][Y]R`\_  
@HWI-EAS443:3:15:342:1491#0/1  
GAACAGTGACCACAGAAGCTGCTTTTGGTCTAGTGTGTGC  
+HWI-EAS443:3:15:342:1491#0/1  
`\_Q\_`a]aabbba`¥ba^aa]`a\_\_]¥]]b\_]Ga\_\_S[a  
@HWI-EAS443:3:15:44:1337#0/1  
GCCGAGATCGCGCAGAGACTGGAAAGTGTCTTTGCAGGAA  
+HWI-EAS443:3:15:44:1337#0/1  
abb`\_X^ab\_U[¥``XY^[]ZZ¥Z]TN\_^^^[^QSW]^¥[  
@HWI-EAS443:3:15:516:574#0/1  
CAGAAGCTGCTTTTGGTCTAGTGTGTGCCACTTGTGAACA  
+HWI-EAS443:3:15:516:574#0/1  
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+HWI-EAS443:3:15:569:1611#0/1  
a``aba`aaaaaaaa`abbaa\_aaa\_aa]a\_\_`\_`aaVa  
@HWI-EAS443:3:15:584:176#0/1  
CTTGTCACCTCTGACTAAGGGAATTTTAGGATTTGTGTTC  
+HWI-EAS443:3:15:584:176#0/1  
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+HWI-EAS443:3:15:643:1859#0/1  
aa``babbbbbb¥b^^abaa^\_``Iaa[^baUY\_Ya`Z``  
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GCAGATGGTACATGCAATGAGAACTATTGGGACTCATCCT  
+HWI-EAS443:3:15:656:336#0/1  
aabaa`ba¥``a\_a`a\_`aa`^\_\_`\_``\_`X\_¥^``¥\_¥T  
@HWI-EAS443:3:15:701:1267#0/1  
AAGAGAAATAACGTTCCATGGGGCCAAGGAGGTGCTACTA  
+HWI-EAS443:3:15:701:1267#0/1  
^b^JZY``^a\_b^]N)`\_[^\_\_\_\_`Y[O\_\_^\_\_W\_Y`\_`Va  
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CGAGAGGATCACTTGAATCGCTGCATCTGCACTCCCATTC  
+HWI-EAS443:3:15:772:715#0/1  
abbabba^``[aba\_bb`baaZabaa\_aa`aa^a]`aa^  
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+HWI-EAS443:3:15:996:812#0/1  
aXZ00[XaX]a^^XUa`\_a`UJ`[¥R\_Q^`a[P`a\_a\_U[  
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GTGGATTACTGATCGTCTTTTTTCAAATGTATTTATCGT  
+HWI-EAS443:3:16:1065:774#0/1  
`Q\_]aYY\_Y`\_a]WW[\_ZVZ^\_]TS[^\_ZV\_OYPOBB  
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GACCGATGCTGTGAATCAGCAATCTGTTCAAGTGGCAC  
+HWI-EAS443:3:16:1068:1190#0/1  
`aJaWU^^`ZTG]a¥]aa``¥V^^`a^¥a[\_^Y^V`WS¥Z  
@HWI-EAS443:3:16:107:1525#0/1  
CATGGGCCTCATATACAACAGGATGGGAACAGTGACCACA  
+HWI-EAS443:3:16:107:1525#0/1  
aa^^I^aaaa`a\_b`[\_XXXRW¥\_\_aaa`Xaaa^```  
@HWI-EAS443:3:16:1124:768#0/1  
CAAGTGGCACACACTAGACCAAAGCAGCTTCTGTGGTCA  
+HWI-EAS443:3:16:1124:768#0/1  
aa`aY^`[\_a`aaaa```\_\_`^`[\_Y^\_aZ`[VQ\_UUZ  
@HWI-EAS443:3:16:1166:236#0/1  
AGCAATCTGTTCAAGTGGCACACACTAGACCAAAGCA  
+HWI-EAS443:3:16:1166:236#0/1  
`babbbbaabaabaa```\_ba\_b\_``aa`aaa\_aa[^a``a  
@HWI-EAS443:3:16:1208:1317#0/1  
ACCTTCTTGAAAATTTGCAGGCCTACCAGAAGCGAATGGG  
+HWI-EAS443:3:16:1208:1317#0/1  
abaaa\_a`baa`aaZ\_aa``][a\_^^UX`^^`Y\_[V``\_^  
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+HWI-EAS443:3:16:1290:801#0/1  
ababaa[a\_]`aaaaaba^aaa]a[\_a`b\_`\_a¥aa[\_a  
@HWI-EAS443:3:16:1404:1792#0/1  
CATGGGCCTCATATACAACAGGATGGGAACAGTGACCACA  
+HWI-EAS443:3:16:1404:1792#0/1  
MabaV\_bbbba`bbb^ba\_^Z[bbbbbbb\_a^Ybbb]a^a  
@HWI-EAS443:3:16:1408:1492#0/1  
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+HWI-EAS443:3:16:1408:1492#0/1  
aa`ab\_a`a`ab`a`aa]b`\_^a`a]```¥a`\_a`\_\_]  
@HWI-EAS443:3:16:141:871#0/1  
GTCCCCATTCCCATTTAGGGCATTGACAAAAGCGTCTA  
+HWI-EAS443:3:16:141:871#0/1  
a`aaa\_b\_Zaaaaa\_^¥`]]`aaa\_Y][\_a][]WN][a  
@HWI-EAS443:3:16:1424:472#0/1  
GGGCCTCATATACAACAGGATGGGAACAGTGACCACAGAA  
+HWI-EAS443:3:16:1424:472#0/1  
\_]VNV\_a]Y]`[PQVFO\_WU[`WSNRWUVF¥[ZNQSTQWB  
@HWI-EAS443:3:16:1543:1295#0/1  
ATCAGACTAGGCAGATGGTACATGCAATGAGAACTATTGG  
+HWI-EAS443:3:16:1543:1295#0/1  
abaabaaaaba\_abaaaa^\_a`a[\_`aa\_a^`]¥\_`\_\_[

@HWI-EAS443:3:16:1553:1844#0/1  
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+HWI-EAS443:3:16:1553:1844#0/1  
`^`aaaaaa\_U¥¥^[¥aa]UPY¥G¥X[R¥YLVJUNT\_ZMY  
@HWI-EAS443:3:16:1563:843#0/1  
CTTTTGGTCTAGTGTGTGCCACTTGTGAACAGATTGCTGA  
+HWI-EAS443:3:16:1563:843#0/1  
abbbbbbaab`^`aaa^a^aa`aab^`aaZ¥aaa`a\_¥a\_  
@HWI-EAS443:3:16:1605:1122#0/1  
ACCTGATATTGTGGATTACTGATCGTCTTTTTTTCAAATG  
+HWI-EAS443:3:16:1605:1122#0/1  
a`]aa\_ZQ]^^[aa`\_a^¥aZW\_0\_VS]```a`]OZ¥\_]a  
@HWI-EAS443:3:16:1690:434#0/1  
GGGCCAAGGAGGTGTCACTAAGCTATTCAACTGGTGCCT  
+HWI-EAS443:3:16:1690:434#0/1  
^`b¥FSYR[Q\_ [¥ZQ0^X^a^S¥TZZ^[T^XDZ`QaUYBB  
@HWI-EAS443:3:16:227:1314#0/1  
ACCTTCTTGAAAATTTGCAGGCCTACCAGAAGCGAATGGG  
+HWI-EAS443:3:16:227:1314#0/1  
aba``aaa`aaaa`\_^^`^^]``\_a]\_\_\_^\_\_\_`^^`\_`\_]  
@HWI-EAS443:3:16:342:577#0/1  
AATCAGACTAGGCAGATGGTACATGCAATGAGAACTATTG  
+HWI-EAS443:3:16:342:577#0/1  
`^``ZZZ`]aba``a\_\_ZWLW`a^` [ `¥ZY]a]aQ`YY\_`  
@HWI-EAS443:3:16:424:1656#0/1  
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+HWI-EAS443:3:16:424:1656#0/1  
aba¥``````aaabababa^X^\_bb`aa]aZa\_b\_a`a`^  
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ACCTTCTTGAAAATTTGCAGGCCTACCAGAAGCGAATGGG  
+HWI-EAS443:3:16:465:1259#0/1  
a``^aaa`a^^aa^aa`\_]\_`\_`a`\_]\_\_`^a``^a`]Y  
@HWI-EAS443:3:16:496:397#0/1  
GTGCCACTTGTGAACAGATTGCTGATTCACAGCATCGGTC  
+HWI-EAS443:3:16:496:397#0/1  
a^bbabaaaa`a\_\_a\_\_a\_aa\_a`\_a` [ `W`\_^a\_V^  
@HWI-EAS443:3:16:538:795#0/1  
GAGAAATAACGTTCCATGGGGCCAAGGAGGTGTCACTAAG  
+HWI-EAS443:3:16:538:795#0/1  
aababaabaa`a\_aaaaa`\_^]aa\_\_`Za\_Z`]`aa\_ZX`  
@HWI-EAS443:3:16:608:1614#0/1  
GAACAGTGACCACAGAAGCTGCTTTTGGTCTAGTGTGTGC  
+HWI-EAS443:3:16:608:1614#0/1  
aU\_aa¥^^[¥baUaa]UXa[aY]S]U\_\_Ua\_^UUJYQN\_V  
@HWI-EAS443:3:16:696:628#0/1  
GGCCAAGGAGGTGTCACTAAGCTATTCAACTGGTGCCTT  
+HWI-EAS443:3:16:696:628#0/1  
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GTTCAACAAGTGGCACACACTAGACCAAAGCAGCTTCTGT

+HWI-EAS443:3:16:861:1620#0/1  
a\_[^ [aa\_aIa^aaa^` `¥]\_^ [^ ^ [ \_¥¥Y` \_U^QUBB  
@HWI-EAS443:3:16:895:101#0/1  
GGCCTCATATACAACAGGATGGGAACAGTGACCACAGAAG  
+HWI-EAS443:3:16:895:101#0/1  
aa¥Z\_Y\_^aaY¥¥`T¥`\_¥Y`\_aW¥Y^\_W`¥WWWUTW¥YW¥  
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+HWI-EAS443:3:16:994:496#0/1  
abaabaabaabaaaaaa¥aa`\_`\_a\_aaaaa` `Yaa^`\_  
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CTGATCGTCTTTTTTCAAATGTATTTATCGTCGCTTTAA  
+HWI-EAS443:3:17:1030:658#0/1  
aY¥[abZ]bb`babb\_a¥Z]\_baabb`\_a\_aR[aSbaa^]  
@HWI-EAS443:3:17:105:247#0/1  
GTGTGCCACTTGTGAACAGATTGCTGATTCACAGCATCGG  
+HWI-EAS443:3:17:105:247#0/1  
`U`RZV\_`¥`¥`^aWa^M^`^ [ ` \_\_\_\_]VPSTVVV][UWX  
@HWI-EAS443:3:17:1414:663#0/1  
GTTCTTTCTGCAAAGACACTTTCCAGTCTCTGCGCGATC  
+HWI-EAS443:3:17:1414:663#0/1  
aTNZ`]P\_V]W[^aZ[UR[SU\_\_WQ^`WVVS\_UVPSSWW  
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+HWI-EAS443:3:17:1465:1982#0/1  
\_aZZW¥Z\_a¥]¥Y]TV`^T^^`¥YXRM^` [ ]^ [ ` aZH  
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+HWI-EAS443:3:17:1481:562#0/1  
a^X]Z\_^a\_aa`\_]YS\_X^\_\_`T[S[ `WZP`\_^NZU^^RV  
@HWI-EAS443:3:17:1504:1491#0/1  
ATACATTTGAAAAAAGACGATCAGTAATCCACAATATCA  
+HWI-EAS443:3:17:1504:1491#0/1  
¥V¥\_W¥`baaU¥L]ZSS¥¥a^¥YV\_Yba¥PN]¥` `^` [WZ  
@HWI-EAS443:3:17:1513:308#0/1  
GACCACAGAAGCTGCTTTTGGTCTAGTGTGTGCCACTTGT  
+HWI-EAS443:3:17:1513:308#0/1  
abaa\_a`bb¥b]\_X[ ` ` ¥G¥ [ \_ [ \_Z`\_U[V]VU^W¥ZQZ  
@HWI-EAS443:3:17:1625:1346#0/1  
GAGGATCACTTGAATCGCTGCATCTGCACTCCCATTCGCT  
+HWI-EAS443:3:17:1625:1346#0/1  
aa^a¥^aaaa`bab` [b\_X`Qaa¥¥a`\_V\_Q\_Ua¥^Z\_V¥  
@HWI-EAS443:3:17:1647:182#0/1  
GGTCACTGTTCCCATCCTGTTGTATATGAGGCCCATGCAA  
+HWI-EAS443:3:17:1647:182#0/1  
ab^\_a^aa`a^Z[ \_\_W[ `a¥`\_V^`\_`\_¥[WUZVWZ^VXW  
@HWI-EAS443:3:17:166:1667#0/1  
ATGCAACTGGCAAGTGCACCAGTTGAATAGCTTAGTGACA  
+HWI-EAS443:3:17:166:1667#0/1  
[Z`a`Taa¥^aaa\_U`a`\_a[X[ ` ^ [ ^U^a` ` ] \_^U\_a¥`



@HWI-EAS443:3:17:1733:58#0/1  
CAGCAATCTGTTCAACAAGTGGCACACACTAGACCAAAAAGC  
+HWI-EAS443:3:17:1733:58#0/1  
ab`¥¥ab\_aa\_a¥\_`aaV`Z[\_\_\_Z\_\_\_¥^\_ZUZ]]YTU  
@HWI-EAS443:3:17:1748:212#0/1  
ACCTGATATTGTGGATTACTGATCGTCTTTTTTTTCAAATG  
+HWI-EAS443:3:17:1748:212#0/1  
a\_a^b`baabbZba\_aaaaa```Va¥¥`a`aaaaV^^Y¥[  
@HWI-EAS443:3:17:314:1328#0/1  
AGATGACCTTCTTGAAAATTTGCAGGCCTACCAGAAGCGA  
+HWI-EAS443:3:17:314:1328#0/1  
`^]`^XZ`a`a¥X0^^^\_\_^¥^`\_[M^\_] [W^\_^ [H]]\_S  
@HWI-EAS443:3:17:316:475#0/1  
AAATGCCCTAAATGGGAATGGGGACCCGAACAACATGGAT  
+HWI-EAS443:3:17:316:475#0/1  
aaa```aa\_aaa`a\_`^`]aa^\_\_`aaaZ`^`\_`^```[\_\_\_  
@HWI-EAS443:3:17:341:215#0/1  
AGTGCACCAGTTGAATAGCTTAGTGACACCTCCTTGCCCC  
+HWI-EAS443:3:17:341:215#0/1  
¥XW]H[abaaa^¥¥^^¥^aaZa\_Qa\_\_`ZZ[^S[^\_GVNR  
@HWI-EAS443:3:17:386:1567#0/1  
GCCTCATATACAACAGGATGGGAACAGTGACCACAGAAGC  
+HWI-EAS443:3:17:386:1567#0/1  
S\_b`Z\_T¥[`b`b]Z\_ab\_\_¥¥aa\_\_aRa\_abaW`a^\_]Z  
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ATCAGCAATCTGTTCAACAAGTGGCACACACTAGACCAAAA  
+HWI-EAS443:3:17:552:973#0/1  
aaaaaa\_X]\_aa^\_U[`a[[UTY\_aZ\_\_\_^S\_\_\_¥XZZ[`\_  
@HWI-EAS443:3:17:554:238#0/1  
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+HWI-EAS443:3:17:554:238#0/1  
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ATCCCAATGATATTTGCTGCAATGACGAGAGGATCACTTG  
+HWI-EAS443:3:17:690:52#0/1  
aa`a`\_`bbabbaa``aaaaa^Ya^Wa\_\_\_a`]XY\_[\_]¥a  
@HWI-EAS443:3:17:812:50#0/1  
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+HWI-EAS443:3:17:812:50#0/1  
`]```aaa`Ya\_\_`Z\_aa]^Z]Z[`Z¥^U\_\_¥^¥VX^TW¥  
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+HWI-EAS443:3:17:875:854#0/1  
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@HWI-EAS443:3:17:885:398#0/1  
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+HWI-EAS443:3:17:885:398#0/1  
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+HWI-EAS443:3:17:905:1768#0/1  
aaaa`a`a\_\_\_a`a^`\_\_^`[\_¥`\_\_\_^\_\_T^V\_`¥W¥  
@HWI-EAS443:3:18:1121:1242#0/1  
GACCGATGCTGTGAATCAGCAATCTGTTCAAGTGGCAC  
+HWI-EAS443:3:18:1121:1242#0/1  
abab`a``abbaaaaaaaaa`aa`aa`a`a[a\_`[\_Z`^  
@HWI-EAS443:3:18:1130:1054#0/1  
GATTACTGATCGTCTTTTTTCAAATGTATTTATCGTCGC  
+HWI-EAS443:3:18:1130:1054#0/1  
aaaaaaaaa`\_`aaaa`^`\_\_`a[aa\_``^`^`[\_`  
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+HWI-EAS443:3:18:1135:1196#0/1  
aaa¥U\_bb`\_S\_a¥RZaaaa¥a`a\_a^^``[aaa`Y]^¥  
@HWI-EAS443:3:18:1138:1666#0/1  
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+HWI-EAS443:3:18:1138:1666#0/1  
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@HWI-EAS443:3:18:1139:1441#0/1  
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+HWI-EAS443:3:18:1139:1441#0/1  
a`VZ^[X`¥]aa]\_a`a^aaaYS\_Z`a\_\_\_]V¥^a\_\_Z`\_  
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+HWI-EAS443:3:18:1218:1749#0/1  
aa\_aYaa]aaaaa\_`baa\_aZ``\_a`^`Wa`W`aY][^a  
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aaa`abaaaa\_a`aa\_\_a]`^^^\_a^a\_\_^`[\_`\_]^^]\_^  
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+HWI-EAS443:3:18:1450:1260#0/1  
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@HWI-EAS443:3:18:1548:761#0/1  
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+HWI-EAS443:3:18:1548:761#0/1  
aaa`aa^`¥R\_\_`\_`\_`V[V\_\_]Q\_\_Y`YV^\_^VW¥]\_  
@HWI-EAS443:3:18:1581:1096#0/1  
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+HWI-EAS443:3:18:1581:1096#0/1  
aa`VaV^bbbabbaV]aaab\_abaa\_a^a][a]aaa^X^a  
@HWI-EAS443:3:18:197:718#0/1  
ATCTTGTCACCTCTGACTAAGGGAATTTTAGGATTTGTGT  
+HWI-EAS443:3:18:197:718#0/1  
aa```a\_a[a\_aaaa^aa\_a\_`\_]`\_\_\_\_\_aa^`^`\_`X\_Y  
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CAAGATTGGTCTTGTCTTTAGCCATTCCATGAGAGCCTCA  
+HWI-EAS443:3:18:246:1275#0/1  
\_aV\_b`a[b^^Z^Y\_baba`a^``\_a^`aaa\_a]]`[\_`\_`

@HWI-EAS443:3:18:357:1030#0/1  
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+HWI-EAS443:3:18:357:1030#0/1  
aaa`abaa`aaa^aaa\_``a]`a\_\_¥^\_\_aa\_^^^Y¥^  
@HWI-EAS443:3:18:363:177#0/1  
ACCAAAAGCAGCTTCTGTGGTCACTGTTCCCATCCTGTTG  
+HWI-EAS443:3:18:363:177#0/1  
aaaa\_aa``\_]a`\_\_\_aUV^X^\_VZ]XY\_]ZY]]U]Y]]  
@HWI-EAS443:3:18:499:323#0/1  
GCTGTGAATCAGCAATCTGTTCACAAGTGGCACACACTAG  
+HWI-EAS443:3:18:499:323#0/1  
^`¥\_HX^aaaZ``aaa\_`W]`\_^T[]]V\_] [\_V]U`T¥\_]`  
@HWI-EAS443:3:18:544:433#0/1  
ATCTGTTCACAAGTGGCACACACTAGACAAAAGCAGCTT  
+HWI-EAS443:3:18:544:433#0/1  
ab`a`aaa^aaaa¥ababbaaa`¥aaaaXaaa`]`^`Ya\_  
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ATACATTTGAAAAAAGACGATCAGTAATCCACAATATCA  
+HWI-EAS443:3:18:612:1308#0/1  
aa\_aaa\_`a`a\_a```\_\_`\_]VX^]X^\_W]X^UZ]X]ZY[  
@HWI-EAS443:3:18:687:621#0/1  
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+HWI-EAS443:3:18:687:621#0/1  
``aaaaa`aa^]a\_aa`^]\_[T]`[^`\_]\_\_]`\_]  
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AAAGCAGCTTCTGTGGTCACTGTTCCCATCCTGTTGTATA  
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aaa`^¥]¥\_`X`]\_U\_U``¥YYZZ^^\_[TUZ\_]TVSSWW^  
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TGCAGATGCAGCGATTCAAGTGATCCTCTCGTCATTGCAG  
+HWI-EAS443:3:18:709:171#0/1  
[Ub¥¥`\_`aaaU]\_VPTa\_aQa[RU^[]^VZURZYV]U]\_  
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+HWI-EAS443:3:18:721:1909#0/1  
a^Y^Jbaaaa\_]T\_¥\_\_aQJWa\_0ZYZWV`\_R`NS¥IDNW  
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AGATCCCAATGATATTTGCTGCAATGACGAGAGGATCACT  
+HWI-EAS443:3:18:847:1207#0/1  
a]`Zabb]b`ba^`a^X``Xaa\_\_aa]`a[``a`\_]XY[^  
@HWI-EAS443:3:18:91:1260#0/1  
GGCCTCATATACAACAGGATGGGAACAGTGACCACAGAAG  
+HWI-EAS443:3:18:91:1260#0/1  
W¥X\_La]\_[\_a`a]^XW\_^ZZXZU\_b^PFW`]\_]X\_Q]^  
@HWI-EAS443:3:19:1000:1321#0/1  
TGGGCCTCATATACAACAGGATGGGAACAGTGACCACAGA  
+HWI-EAS443:3:19:1000:1321#0/1  
aaa`baaaaaabaabaaa[X`aaa\_`a\_]Y`aa\_]\_\_]a  
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+HWI-EAS443:3:19:1002:1109#0/1  
aX`^SVZGUVWYUL\_WZ\_`[\`¥\_^[^VYZ[XU]\_\_^SUBB  
@HWI-EAS443:3:19:1266:1243#0/1  
TGGGAGTGCAGATGCAGCGATTCAAGTGATCCTCTCGTCA  
+HWI-EAS443:3:19:1266:1243#0/1  
\_bb^a\_\_aaabaa`ZX]WY\_\_[S^VPS]`Z[W]\_¥^ZXGY  
@HWI-EAS443:3:19:1274:1087#0/1  
ATCTGTTCACAAGTGGCACACACTAGACAAAAGCAGCTT  
+HWI-EAS443:3:19:1274:1087#0/1  
ab]`b`a\_]aaa]Zaaaaa`\_\_`a`¥`a`aaa\_a¥]\_`  
@HWI-EAS443:3:19:1281:1802#0/1  
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+HWI-EAS443:3:19:1281:1802#0/1  
abbbaaa`abab`baa\_`aaa\_`Zbba`^a\_]a`baa\_a\_  
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+HWI-EAS443:3:19:1339:1278#0/1  
a[`\_]`a\_^^`]aaaXa]^a`a]Yaaa]aaaaSaa\_¥\_[]  
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GATCGTCTTTTTTCAAATGTATTTATCGTCGCTTTAAAT  
+HWI-EAS443:3:19:1384:1873#0/1  
aa`\_]a¥aaaaa`^\_a`aa^aa`a`^^]\_]```\_`\_\_  
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CCAGAAGCGAATGGGAGTGCAGATGCAGCGATTCAAGTGA  
+HWI-EAS443:3:19:1467:153#0/1  
ab\_`aa¥\_bXJ¥bbbabaaaab¥`^`\_b^`¥a\_¥\_¥¥W\_\_  
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+HWI-EAS443:3:19:1521:1145#0/1  
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+HWI-EAS443:3:19:1551:319#0/1  
aba`a]a\_ab\_`a\_WP[\_`a^`]\_]\_^VVV]XX\_XY^  
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+HWI-EAS443:3:19:1573:1622#0/1  
]b¥UbSS\_`V]]`aZbUa`bUba`bbYaK`a\_H]b]N]aa  
@HWI-EAS443:3:19:1588:1383#0/1  
GCCTCATATACAACAGGATGGGAACAGTGACCACAGAAGC  
+HWI-EAS443:3:19:1588:1383#0/1  
aabbabbbbaaaa`\_ab``bba^^Y\_b^`¥`Y]\_aa`\_a^  
@HWI-EAS443:3:19:1639:1757#0/1  
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+HWI-EAS443:3:19:1639:1757#0/1  
`babbab[\_`^baa\_]V¥aY^\_^UaW0aaaOFYSZ\_YaX]  
@HWI-EAS443:3:19:1656:1069#0/1  
AGTGATCCTCTCGTCATTGCAGCAAATATCATTGGGATCT  
+HWI-EAS443:3:19:1656:1069#0/1  
ab`bba`a`a`\_b\_a\_aaa`aa^¥`\_\_aaU^a\_\_\_\_]¥[O`

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CAAGATTGGTCTTGTCTTTAGCCATTCCATGAGAGCCTCA  
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+HWI-EAS443:3:19:1761:308#0/1  
X`[\_\_aW`[\_`a`YQUZN\_X```\_aSx[^aa^RM¥[^\_`¥  
@HWI-EAS443:3:19:1767:743#0/1  
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+HWI-EAS443:3:19:1767:743#0/1  
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+HWI-EAS443:3:19:313:243#0/1  
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GGCCTCATATACAACAGGATGGGAACAGTGACCACAGAAG  
+HWI-EAS443:3:19:353:1673#0/1  
Q`\_`\_W\_W]\_\_W\_[VWZ\_VTR\_]\_XX`\_Vaa`^`\_`\_a^V  
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+HWI-EAS443:3:19:355:1307#0/1  
aaabbbbabbaaababbaa^a^\_[`aaaaa\_a\_\_`^a`  
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+HWI-EAS443:3:19:364:1959#0/1  
\_Z\_]```aaaa`aaXa`a`aa`]^`a`a^`^\_a\_\_a`\_`^  
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+HWI-EAS443:3:19:45:1139#0/1  
``a^aV¥X`aa]^`\_`a^aa]]\_Z\_]`[\_aaaa`]]¥\_`¥  
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+HWI-EAS443:3:19:469:1098#0/1  
``¥¥¥^YY]aa`````]]`\_`a`P¥\_]¥Pa`a[¥¥]¥RQ¥Z  
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+HWI-EAS443:3:19:574:396#0/1  
aaa\_\_ab\_ba]aaaVOWX\_Z`a^`\_¥FVaaZV\_]`\_`\_`[V  
@HWI-EAS443:3:19:596:1487#0/1  
GTGGATTACTGATCGTCTTTTTTCAAATGTATTTATCGT  
+HWI-EAS443:3:19:596:1487#0/1  
]HX\_[]^a^`a]aa^\_¥T`^a[ZV¥YWV¥Uaa`¥a``[Y  
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+HWI-EAS443:3:19:879:1560#0/1  
aaaZ`Ua`[aaaaa\_aa\_]ZZR`\_N`\_Z]¥]]YU\_HYUB  
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ab`¥ab`a`aabaaa`ab`babaa\_aaVaa`^ab`\_`a\_\_\_  
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CATGGGGCCAAGGAGGTGTCCTAAGCTATTCAACTGGTG  
+HWI-EAS443:3:19:987:1949#0/1  
^^¥¥`¥\_`\_Z\_[^\_W¥[HSZW\_`\_\_0\_aW]a[STV]SP\_  
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+HWI-EAS443:3:1:1225:1487#0/1  
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+HWI-EAS443:3:1:1339:672#0/1  
a\_a^\_bSaa\_Z¥a`\_`\_a^]\_¥XZ`¥\_U`\_`\_TQ\_UWVBBB  
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ab\_aaaabaaaaaaa^a¥`\_`\_Waa¥aa`]a`\_`\_a`\_BBB  
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+HWI-EAS443:3:1:1517:719#0/1  
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+HWI-EAS443:3:1:1519:1092#0/1  
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a\_a]aa\_[`\_`\_QU[^`\_`\_^[^`\_XXa]^`\_`\_ZG¥U^^]BBBB  
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+HWI-EAS443:3:1:180:1279#0/1  
]a\_\_^b\_V]b`]Va`Y`\_`\_ZTza^a¥a^a`aa`\_ab^BBB  
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CAGGCCTACCAGAAGCGAATGGGAGTGCAGATGCAGCGAT  
+HWI-EAS443:3:1:242:1105#0/1  
ab`aabbbaabb`]b`baaaaba`a]a`aa]\_aa`\_a\_aBB  
@HWI-EAS443:3:1:306:430#0/1  
AAAAAAGACGATCAGTAATCCACAATATCAGGTGCAAGAT  
+HWI-EAS443:3:1:306:430#0/1  
`b`\_a\_\_`\_aa`\_aaX`\_`\_S]a\_`\_`\_`\_`\_¥\_\_]Z\_Z]]BBB

@HWI-EAS443:3:1:365:177#0/1  
CGAGAGGATCACTTGAATCGCTGCATCTGCACTCCCATTC  
+HWI-EAS443:3:1:365:177#0/1  
W\_^a`¥\_b`\_a¥abb^b[H\_aaaa`ZW`\_````\_VPNBBBB  
@HWI-EAS443:3:1:412:783#0/1  
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+HWI-EAS443:3:1:412:783#0/1  
aa`]]`U\_ba`]W\_aW`Xa]`\_``Ua`\_a`Y\_]X`YURBB  
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+HWI-EAS443:3:1:530:100#0/1  
¥^ZJ^]U^`a\_aa`\_`a[^aT^[\`UVR¥UVY\_[\`^\_BBBB  
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+HWI-EAS443:3:1:939:264#0/1  
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+HWI-EAS443:3:20:1023:1840#0/1  
aa^\_]¥\_\_a\_\_^\_^\_\_]\_^]]^YUWZ^Y]]WUU]XXU]UW  
@HWI-EAS443:3:20:105:501#0/1  
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+HWI-EAS443:3:20:105:501#0/1  
aaabaabbabaabaaa`^aa``aaa^a``a\_aa`a[^`a¥  
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+HWI-EAS443:3:20:1091:1870#0/1  
¥U`aX^`]^WaU`[Y`¥X\_TZX^\_aS\_Za[PVSTX00VZ`  
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GTCCCCATTCCCATTTAGGGCATTGTTGGACAAAGCGTCTA  
+HWI-EAS443:3:20:119:400#0/1  
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@HWI-EAS443:3:20:1242:889#0/1  
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+HWI-EAS443:3:20:1242:889#0/1  
ababa\_abaaaaa`aa`a`a`aa\_\_`\_]\_]\_\_`Z[\_\_\_`  
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+HWI-EAS443:3:20:1414:1977#0/1  
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\_`b\_G0aVbab`YYaWa^\_WaW`^`\_]\_XW[\_`YU¥X[G]  
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+HWI-EAS443:3:20:1520:243#0/1  
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+HWI-EAS443:3:20:171:170#0/1  
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GGAGGTGTCACTAAGCTATTCAACTGGTGCACCTGCCAGT  
+HWI-EAS443:3:20:1778:1610#0/1  
aa`baVa\_\_a]`a`a`\_a¥¥^`^Y^`\_S]R]V¥¥¥ZV^WW  
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CAATCTTGTCACCTCTGACTAAGGGAATTTTAGGATTTGT  
+HWI-EAS443:3:20:198:1929#0/1  
a\_\_aYX]YN\_\_`]YLSa^`YaaGZ\_[VYZ[U]\_YX[ZBBB  
@HWI-EAS443:3:20:267:945#0/1  
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+HWI-EAS443:3:20:267:945#0/1  
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+HWI-EAS443:3:20:322:1616#0/1  
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+HWI-EAS443:3:20:332:815#0/1  
`R^^bb¥SVbaP¥UWG`]L¥¥¥aaa]`a^b^`ba\_\_a`[W  
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+HWI-EAS443:3:20:390:1014#0/1  
\_¥abbbba^I¥b\_baabba]ababaa`\_aa\_aaa\_aV^H  
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+HWI-EAS443:3:20:425:397#0/1  
a^aa^abba\_aaaaaa[`b\_a`a`\_]¥V¥a[WT]^a]^  
@HWI-EAS443:3:20:438:167#0/1  
GAAAGATGACCTTCTTGAAAATTTGCAGGCCTACCAGAAG  
+HWI-EAS443:3:20:438:167#0/1  
]]ba]]a\_a\_b`a\_abaa\_aUa\_aa]`\_\_a]aa\_`^a\_¥a  
@HWI-EAS443:3:20:460:1738#0/1  
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+HWI-EAS443:3:20:460:1738#0/1  
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+HWI-EAS443:3:20:465:2012#0/1  
]P^b`¥`a`WW]\_X]¥RSDZ^\_aa¥Q`[aX\_\_b\_a¥^\_OD  
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CAAGATTGGTCTTGTCTTTAGCCATTCCATGAGAGCCTCA  
+HWI-EAS443:3:20:489:371#0/1  
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GAGAGGATCACTTGAATCGCTGCATCTGCACTCCCATTCTG  
+HWI-EAS443:3:20:516:1988#0/1  
``^ba^b``aZ\_[bbaa\_]Q\_\_abY\_`\_ab\_]¥^Va\_S^N  
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CCTGATATTGTGGATTACTGATCGTCTTTTTTTCAAATGT  
+HWI-EAS443:3:20:547:166#0/1  
aabbbbabbbbabbbbabbaaabbbbabbaaa`\_  
@HWI-EAS443:3:20:556:56#0/1  
CACACACTAGACCAAAAGCAGCTTCTGTGGTCACTGTTCC  
+HWI-EAS443:3:20:556:56#0/1  
ab][a¥aa¥aaVS^`\_aaa^a`^a^\_aV^`Z\_\_U^\_U]YN  
@HWI-EAS443:3:20:591:731#0/1  
GATCGCGCAGAGACTGGAAAGTGTCTTTGCAGGAAAGAAC  
+HWI-EAS443:3:20:591:731#0/1  
a\_^Ta\_a¥\_\_T\_Y`\_¥P`\_[¥YaU^¥[\_LNSYNT^¥QY\_¥  
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AAGCGAATGGGAGTGCAGATGCAGCGATTCAAGTGATCCT  
+HWI-EAS443:3:20:632:363#0/1  
`¥`\_`\_^][^^`]a\_b\_aaWUa\_\_][aa]^¥`[aZa\_^SZY  
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+HWI-EAS443:3:20:653:1787#0/1  
`TYR\_\_`aaX\_a[a`aa\_QZZ^\_¥ZUaSa`WZYXR¥[N^  
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+HWI-EAS443:3:20:654:1474#0/1  
aQT^\_a\_YY``\_Z]`[YZZV0a^`a`aR]PD[a[^¥W^`Z  
@HWI-EAS443:3:21:1006:1399#0/1  
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+HWI-EAS443:3:21:1006:1399#0/1  
aab\_baaaa]a\_``[aZa`\_`^`^`^a]\_^`^^\_\_Y\_^X  
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+HWI-EAS443:3:21:1059:119#0/1  
ab\_]ba^bba[[a\_]Wta]\_^aY^U`Zaa\_aaYQ[aa]`V  
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GACCGATGCTGTGAATCAGCAATCTGTTCAAGTGGCAC  
+HWI-EAS443:3:21:1082:1194#0/1  
a¥X`ba¥ab]\_T`a\_V]`\_]RGX\_[`Y¥\_`\_`¥]V[X]`S  
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aaa\_\_aaaa`aa\_aa]`ba\_aaa\_`^Y\_a¥a`¥W^¥\_a]¥  
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+HWI-EAS443:3:21:1205:1757#0/1  
a\_`^S^\_TQP[aYa`\_TZRP`N¥^N]\_YTLQNW\_YMU¥TP  
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aa`a\_a``aa\_]a`a\_aaaa]a``\_a\_^a`\_aa]W`\_\_UV  
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+HWI-EAS443:3:21:1393:331#0/1  
aa\_a`¥[`a`aa\_\_¥W``a¥U\_V¥TY\_¥W¥VV\_S\_WW[RZ  
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+HWI-EAS443:3:21:1401:1610#0/1  
aa`\_]\_`¥]]\_`^\_WMUNPZ\_S[LK\_\_`PPY]YYPQSY¥YY  
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+HWI-EAS443:3:21:1435:1215#0/1  
a¥^a\_b\_\_\_\_Y]`a\_aa¥aa[^¥[^`^Z]\_]¥a\_Y\_`]VYZ  
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+HWI-EAS443:3:21:1478:172#0/1  
a^`\_`\_`VZ\_^\_Z\_Z[Y\_Z^]YXX^`Z]X^^\_Z]UV]ZZ  
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+HWI-EAS443:3:21:1485:1050#0/1  
`a\_``Jaa`Z]a]^aaa`Y^a^UZ[X[XUN]W^U^O[N^¥  
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+HWI-EAS443:3:21:1497:1518#0/1  
aa\_\_\_\_[a[a\_a\_\_\_\_`¥`\_]\_]YS¥0^] ^O[^Y\_T[XVY  
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GCTAAAGACAAGACCAATCTTGTACCTCTGACTAAGGGA  
+HWI-EAS443:3:21:1546:1859#0/1  
`^`a\_\_^]``\_aa]TZ^\_VTZ]XMZOP^U¥¥VWWW^Y[[Y  
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+HWI-EAS443:3:21:1759:700#0/1  
aaaaab^`^b`ba\_`R\_aXV^a^¥`][T]S\_^UVY^]WR  
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GAGACCGATGCTGTGAATCAGCAATCTGTTACACAAGTGGC  
+HWI-EAS443:3:21:310:1194#0/1  
¥¥`Z\_Y\_¥S\_^Za``Y[¥a\_¥^^¥X`a`MUW¥W]WTM`^`

@HWI-EAS443:3:21:374:122#0/1  
CAAGTGGCACACACTAGACCAAAAGCAGCTTCTGTGGTCA  
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aaaa^aba^ab\_a[`aaa\_Xa\_\_aaa`\_\_^\_\_`VaaNU\_  
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CATGGCCTCATATACAACAGGATGGGAACAGTGACCACA  
+HWI-EAS443:3:21:375:292#0/1  
aaabaaaXaaaaaaaaa\_\_`^^`\_aa`\_`\_aV\_`\_\_\_\_^`  
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+HWI-EAS443:3:21:453:506#0/1  
abV][\_\_\_\_[`a^`¥[Q[U¥¥¥^¥¥ZWY¥UYW^W¥VVU^^T  
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+HWI-EAS443:3:21:507:203#0/1  
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GGAACAGTGACCACAGAAGCTGCTTTTGGTCTAGTGTGTG  
+HWI-EAS443:3:21:519:270#0/1  
aaa`¥\_aN\_\_\_\_^X¥¥YY[\_\_\_U^[Q[V¥¥^SWQQTN¥U¥T¥  
@HWI-EAS443:3:21:547:903#0/1  
ATCGCGCAGAGACTGGAAAGTGTCTTTGCAGGAAAGAACA  
+HWI-EAS443:3:21:547:903#0/1  
aababaa`a`\_a^`a^`aa\_U`Y`^Y^`^¥`\_]\_\_^^\_Z]  
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+HWI-EAS443:3:21:562:223#0/1  
Y`aZb]]M[Z`aaZaab\_a]`T^M^`a`[aUaaZP`\_a  
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+HWI-EAS443:3:21:614:562#0/1  
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+HWI-EAS443:3:21:759:591#0/1  
^\_bbaa`\_]`a\_W`a][E¥a`a¥XZ`\_\_G\_\_¥^aa]PZ`[X  
@HWI-EAS443:3:21:771:1415#0/1  
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+HWI-EAS443:3:21:771:1415#0/1  
a\_a\_]aa\_\_\_a¥^]\_`\_`Y`\_`\_`\_`\_`U[¥W`VU[^S]YS  
@HWI-EAS443:3:21:794:1015#0/1  
GGCCTACCAGAAGCGAATGGGAGTGCAGATGCAGCGATTC  
+HWI-EAS443:3:21:794:1015#0/1  
aabaaabaaaa`a`][NY`T]\_`Xa\_aa\_\_\_`[\_]`\_`[TR¥  
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AGAGCCTCAAGATCTGTGTTCTTTCCTGCAAAGACACTTT  
+HWI-EAS443:3:21:861:67#0/1  
`a`Y`a`\_¥`Ya¥Xb]aU¥]a`\_MW^\_Y^^ZYV]U\_SM  
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+HWI-EAS443:3:21:879:1012#0/1  
aaX]Z`abaa`a^\_a`a[aa`^`^`\_\_\_^`XWX\_SU]  
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+HWI-EAS443:3:21:989:872#0/1  
aba`abbabbbabababaaaaa\_¥a\_aaa`\_X\_aaaaa  
@HWI-EAS443:3:22:1019:1467#0/1  
ACTGATCGTCTTTTTTCAAATGTATTTATCGTCGCTTTA  
+HWI-EAS443:3:22:1019:1467#0/1  
a¥`\_a^^`\_baa`aa\_aaa^aaUa`a`\_aa^`\_^\_\_\_\_  
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AAAGCAGCTTCTGTGGTCACTGTTCCCATCCTGTTGTATA  
+HWI-EAS443:3:22:1040:388#0/1  
a[[aXaaa^U\_ab`X^\_] [Z`aXa`a\_[X[\_`^`\_V\_\_X  
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+HWI-EAS443:3:22:1268:1910#0/1  
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+HWI-EAS443:3:22:142:703#0/1  
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@HWI-EAS443:3:22:1527:445#0/1  
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+HWI-EAS443:3:22:1527:445#0/1  
]]aa^\_aaZ]^`a^XZ^`\_]`\_`\_X]^`\_]Z]ZT\_`]Y¥X  
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+HWI-EAS443:3:22:1559:390#0/1  
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+HWI-EAS443:3:22:1682:70#0/1  
aXFRaXXX]Wa¥[]^[]Y]]UXXYU\_\_T[NOJXUWSWUSUQ  
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+HWI-EAS443:3:22:1705:1251#0/1  
a]¥a\_baa`\_aZUDX]0aSa]^`^^aY\_W^\_OZ\_^^UaX¥  
@HWI-EAS443:3:22:1712:713#0/1  
TGTTCCCATCCTGTTGTATATGAGGCCCATGCAACTGGCA  
+HWI-EAS443:3:22:1712:713#0/1  
a\_^]^V]]a]P]aZV¥N`\_VXX\_XNP[[U[PN¥Z¥ZUQP  
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GCTGCAATGACGAGAGGATCACTTGAATCGCTGCATCTGC  
+HWI-EAS443:3:22:182:1052#0/1  
`\_Y\_P\_X`\_Y`¥T]H[¥ZS`[\_WT[Z[Q^T¥HZ\_]WSVSR  
@HWI-EAS443:3:22:192:225#0/1  
CGACGATAAATACATTTGAAAAAAGACGATCAGTAATCC  
+HWI-EAS443:3:22:192:225#0/1  
UU¥]^ba`\_`\_a^YZ^^aaV\_ba`\_`\_a`aaN\_]RI¥^`Z\_

@HWI-EAS443:3:22:208:1156#0/1  
GCAAATATCATTGGGATCTTGACCTGATATTGTGGATTA  
+HWI-EAS443:3:22:208:1156#0/1  
abaaaaaaaa`\_a\_a]aaa`aaa`a`a`\_a``X`^\_\_\_\_  
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GACCGATGCTGTGAATCAGCAATCTGTTCCACAAGTGGCAC  
+HWI-EAS443:3:22:257:1808#0/1  
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+HWI-EAS443:3:22:32:269#0/1  
]b\_QZa^baa[¥`\_aX`baa¥\_U`^a`¥Za`Xa`XYLU[a  
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GGTGTCACTAAGCTATTCAACTGGTGCCTTGCCAGTTGC  
+HWI-EAS443:3:22:389:332#0/1  
aa\_¥`a`a`aaa^`Xa`\_aa\_¥]\_S\_\_\_\_W\_Q[[VW¥U\_^Z  
@HWI-EAS443:3:22:417:1766#0/1  
AAAAGAGAAATAACGTTCCATGGGGCCAAGGAGGTGTCAC  
+HWI-EAS443:3:22:417:1766#0/1  
aZ]aaaTaabaa[]`\_ba`a^X`\_`^^\_¥`V\_XORLEa`  
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+HWI-EAS443:3:22:419:724#0/1  
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+HWI-EAS443:3:22:491:1400#0/1  
^[^ab`ba]`\_\_aaa]ZX[\_\_a]aaaa`Y¥aaaaa]\_R  
@HWI-EAS443:3:22:636:1696#0/1  
GACAAGATTGGTCTTGTCTTTAGCCATTCCATGAGAGCCT  
+HWI-EAS443:3:22:636:1696#0/1  
UT\_babb¥¥b[baYZ`VbXVIS¥^`^`W\_aa]^Vabaa`]T  
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+HWI-EAS443:3:22:850:1513#0/1  
aaaZ[OW^Z^aa`¥TZV¥\_\_[]Xa\_¥[RXa¥Y¥[^[[`Q[  
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GCTGCATCTGCACTCCCATTGCTTCTGGTAGGCCTGCAA  
+HWI-EAS443:3:22:864:327#0/1  
aa`a\_a`\_^aa`\_\_`\_^`\_Z^Z\_¥^¥YPW¥[URW[ZWZZ  
@HWI-EAS443:3:22:891:1296#0/1  
CAGCAATCTGTTCCACAAGTGGCACACACTAGACCAAAGC  
+HWI-EAS443:3:22:891:1296#0/1  
abaaaaaaaaabaaaa`abaYa\_aa`a`a`\_a\_a\_\_a\_a\_\_[  
@HWI-EAS443:3:22:90:735#0/1  
AGTGACCACAGAAGCTGCTTTTGGTCTAGTGTGTGCCACT  
+HWI-EAS443:3:22:90:735#0/1  
aaVbbab`bbabZ^`\_`a``aaaY]``\_\_ZZWTV]\_`\_Y]  
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+HWI-EAS443:3:22:981:1130#0/1  
aaba]aabababaaaaaaaa[\_a`a`a^^`YX\_`\_]``  
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+HWI-EAS443:3:23:1126:486#0/1  
aaaaSaaba¥\_a`a``aaaY`aa`a`a`a^\_a`\_`a^  
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+HWI-EAS443:3:23:1185:547#0/1  
`^^b`aa`a`aaa`aa`aa[^`\_a]`\_a[^[W\_^^^\_  
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+HWI-EAS443:3:23:1202:701#0/1  
\_\_ba\_aa`a`a`aaa\_]a`\_a`aX`\_`^`\_`X\_¥`\_`\_`  
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AACGTTATTTCTCTTTTGAGCTTCTTGTATAGTTTAACTG  
+HWI-EAS443:3:23:1207:175#0/1  
aaYaabaab\_[babbbbaZ^Y\_b¥aaaa[\_YYa`aaa]`]  
@HWI-EAS443:3:23:123:879#0/1  
CTCGTCATTGCAGCAAATATCATTGGGATCTTGCACCTGA  
+HWI-EAS443:3:23:123:879#0/1  
ab`ZN\_\_b]aaaabaa`^`a`^¥^`\_`a^^`\_`a^a\_a\_a\_  
@HWI-EAS443:3:23:1293:1004#0/1  
GTCCCCATTCCCATTTAGGGCATTGGACAAAGCGTCTA  
+HWI-EAS443:3:23:1293:1004#0/1  
``^ba[\_Yaa`aa`W`a``]aaa``]\_````\_Xa\_\_\_a  
@HWI-EAS443:3:23:1384:207#0/1  
GTGGATTACTGATCGTCTTTTTTCAAATGTATTTATCGT  
+HWI-EAS443:3:23:1384:207#0/1  
```a^^aXQZ^)^Y`^G\_]`^`a^]]`Y]\_UT[¥RY\_WBB  
@HWI-EAS443:3:23:1597:361#0/1
GATCCCAATGATATTTGCTGCAATGACGAGAGGATCACTT
+HWI-EAS443:3:23:1597:361#0/1
XUN[`a`_`a`_YYVV¥a]X[ZXZMW]_WX]]ZS]ZSU
@HWI-EAS443:3:23:1632:1112#0/1
GCCTCATATACAACAGGATGGGAACAGTGACCACAGAAGC
+HWI-EAS443:3:23:1632:1112#0/1
abababbbb`ab`aaa_aa[Q[_`^`^^`_`¥M^U^`_]`^U
@HWI-EAS443:3:23:1640:1373#0/1
CATATACAACAGGATGGGAACAGTGACCACAGAAGCTGCT
+HWI-EAS443:3:23:1640:1373#0/1
`aT`b][aaabbbbabbab^bb`_`_`_`aaa`VXa`]VN
@HWI-EAS443:3:23:181:1626#0/1
GTTGCTAATCAGACTAGGCAGATGGTACATGCAATGAGAA
+HWI-EAS443:3:23:181:1626#0/1
a__¥VXaVaa¥VUYTXT¥`TTP`Y¥NT`^S[POUV^H^__
@HWI-EAS443:3:23:201:1477#0/1
AATTCCTTAGTCAGAGGTGACAAGATTGGTCTTGTCTTT
+HWI-EAS443:3:23:201:1477#0/1
_VXabbbb`R_T^```_NX`aa^]V]^]RVS]¥`_`W`_`^`

@HWI-EAS443:3:23:23:1089#0/1
CGCGCAGAGACTGGAAAGTGTCTTTGCAGGAAAGAACACA
+HWI-EAS443:3:23:23:1089#0/1
abbaaaaa^aaa`aZ]`Va_a`_`Y`_]_Z^`[_^_
@HWI-EAS443:3:23:327:1246#0/1
ATTACTGATCGTCTTTTTTCAAATGTATTTATCGTCGCT
+HWI-EAS443:3:23:327:1246#0/1
aaabbabaaaa`baaabaa`aaa_a^a`a^`Xa]_____`
@HWI-EAS443:3:23:353:1910#0/1
GATGCAGCGATTCAAGTGATCCTCTCGTCATTGCAGCAAA
+HWI-EAS443:3:23:353:1910#0/1
[_aabbbbbbaabb[b_ab_Ybaaa`]bba[_ab_]R#a
@HWI-EAS443:3:23:451:614#0/1
GAGACCGATGCTGTGAATCAGCAATCTGTTCAAGTGGC
+HWI-EAS443:3:23:451:614#0/1
a]aaa^JR]a`_`_Z[JZX`]aMPZXRGNT_V^[QQ#[W
@HWI-EAS443:3:23:489:922#0/1
GCCTCATATACAACAGGATGGGAACAGTGACCACAGAAGC
+HWI-EAS443:3:23:489:922#0/1
aaabb`_[abbbba`aa`aaa`%a_a`_aa`aa`_`a____`
@HWI-EAS443:3:23:516:1374#0/1
AGGAGGTGTCACTAAGCTATTCAACTGGTGCCTTGCCAG
+HWI-EAS443:3:23:516:1374#0/1
a__aa^U`_#[`a`a__^a`_a`_a^%XTK%a_]#[QW^M
@HWI-EAS443:3:23:618:1009#0/1
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+HWI-EAS443:3:23:618:1009#0/1
aabbbbabb^abb`a`abaa`aaaaaaaaaaaa`aaa_a
@HWI-EAS443:3:23:695:1708#0/1
GACCGATGCTGTGAATCAGCAATCTGTTCAAGTGGCAC
+HWI-EAS443:3:23:695:1708#0/1
`baaabaUabbZ`aa^_Yab`aIaXQXaa`_`aWP^Ya`Y
@HWI-EAS443:3:23:908:1126#0/1
GACCGATGCTGTGAATCAGCAATCTGTTCAAGTGGCAC
+HWI-EAS443:3:23:908:1126#0/1
a^Xa[aa]U%]^aa%`aa`^^`_aZa%a`__aR^`T`W
@HWI-EAS443:3:24:1029:1140#0/1
AGATGGTACATGCAATGAGAACTATTGGGACTCATCCTAG
+HWI-EAS443:3:24:1029:1140#0/1
aabb_b%abb`abbbbbaaa_a`baaaa`]aaaaaabaa_
@HWI-EAS443:3:24:1241:1965#0/1
ATCCCAATGATATTTGCTGCAATGACGAGAGGATCACTTG
+HWI-EAS443:3:24:1241:1965#0/1
W]ab^%a`_`^`aa_a_aaa`a`a`[^]#a`_`YS^N][T
@HWI-EAS443:3:24:1358:1407#0/1
CGATCAGTAATCCACAATATCAGGTGCAAGATCCCAATGA
+HWI-EAS443:3:24:1358:1407#0/1
]bbbY__^ab]^%0__a[ba^b]I]bb]babaU]b`a`_
@HWI-EAS443:3:24:1377:497#0/1
TAGACCAAAAGCAGCTTCTGTGGTCACTGTTCCCATCCTG

+HWI-EAS443:3:24:1377:497#0/1
]bb_bb]_[b`ba]_bab¥[¥`_aaXaa]aS[_`bS`ab
@HWI-EAS443:3:24:1434:910#0/1
GCCTCATATACAACAGGATGGGAACAGTGACCACAGAAGC
+HWI-EAS443:3:24:1434:910#0/1
`^ZS[^aaW_b¥_`^`ab_]_XR_aT]^aUY__bWX`V
@HWI-EAS443:3:24:1456:1924#0/1
CACTTGTGAACAGATTGCTGATTCACAGCATCGGTCTCAC
+HWI-EAS443:3:24:1456:1924#0/1
`aa_^`R`ababbaa[aa`b`a`aa`abT_a[^b]_[TF[
@HWI-EAS443:3:24:1475:46#0/1
ATACATTTGAAAAAAGACGATCAGTAATCCACAATATCA
+HWI-EAS443:3:24:1475:46#0/1
``[IX_bZTTU¥`VYZPY`a]]_aX__[S¥YY^Z_¥]W^
@HWI-EAS443:3:24:1510:87#0/1
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+HWI-EAS443:3:24:1510:87#0/1
abbb^`bbbbaba_aa_aaa^`aaaZ`R^aSaa_X_T__^
@HWI-EAS443:3:24:1646:597#0/1
GGGCCTCATATACAACAGGATGGGAACAGTGACCACAGAA
+HWI-EAS443:3:24:1646:597#0/1
¥aPO¥¥aa_aW_``____J^[aWIIR_`¥`_OW[H]a]O
@HWI-EAS443:3:24:174:183#0/1
GGGCCTCATATACAACAGGATGGGAACAGTGACCACAGAA
+HWI-EAS443:3:24:174:183#0/1
X_^`b__Yb_Z_ab^]_aaa`X`b`_YR^Y]aaa_aZX
@HWI-EAS443:3:24:185:1216#0/1
GAGAAATAACGTTCCATGGGGCCAAGGAGGTGCTACTAAG
+HWI-EAS443:3:24:185:1216#0/1
aaaaaaaa`baa^`aaa`__`aa_a`Z`Z_V_Uaa`^W_^
@HWI-EAS443:3:24:189:1296#0/1
ATCAGGTGCAAGATCCCAATGATATTTGCTGCAATGACGA
+HWI-EAS443:3:24:189:1296#0/1
aaaa`W_aaa_a_[`aa`a]``__`__^`^^`_^`__
@HWI-EAS443:3:24:213:36#0/1
TGCCACTTGTGAACAGATTGCTGATTCACAGCATCGGTCT
+HWI-EAS443:3:24:213:36#0/1
abbbbbabb`a`__abaaaa`a`a`a¥Z`__``]_^
@HWI-EAS443:3:24:290:1607#0/1
GAATCAGCAATCTGTTCAAGTGGCACACACTAGACCAA
+HWI-EAS443:3:24:290:1607#0/1
Wa`bb_Y_babba[J`aa]^aV`aab^bbaa__[aaa^¥
@HWI-EAS443:3:24:443:318#0/1
CAGCAATCTGTTCAAGTGGCACACACTAGACCAAAGC
+HWI-EAS443:3:24:443:318#0/1
`bbabbabbaa`aaa_a`aab`a`ba_b_a``aa]aa_
@HWI-EAS443:3:24:598:502#0/1
ATGACCTTCTTGAATTTGCAGGCCTACCAGAAGCGAAT
+HWI-EAS443:3:24:598:502#0/1
abaU]_aaa^abZ`_aa`a_¥a]_[`ab]b`^V^`a^X_

@HWI-EAS443:3:24:680:1028#0/1
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+HWI-EAS443:3:24:680:1028#0/1
`bbababbbbabbbbbaaaa`bab`bba`aaa^a_Za__b`
@HWI-EAS443:3:24:750:1766#0/1
GATCAGTAATCCACAATATCAGGTGCAAGATCCCAATGAT
+HWI-EAS443:3:24:750:1766#0/1
`bbbbbbaba^abbabbbabbbaXVabaabbabaabbaaba
@HWI-EAS443:3:24:806:1104#0/1
ATGGGCCTCATATACAACAGGATGGGAACAGTGACCACAG
+HWI-EAS443:3:24:806:1104#0/1
`Z_`a`bba[`aa]]aaa¥[_]`[_a^¥^X_Uaa¥[¥L_a
@HWI-EAS443:3:24:993:961#0/1
ACCTGATATTGTGGATTACTGATCGTCTTTTTTTCAAATG
+HWI-EAS443:3:24:993:961#0/1
T_aXaWQXZaPFY¥Q¥`U`Z]YZZ]MV_b_[a^¥UYZ^OQ
@HWI-EAS443:3:25:1050:853#0/1
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+HWI-EAS443:3:25:1050:853#0/1
ab`b`VVV_a````aZba_`W[¥baZabWUa`aaaW[Z]b
@HWI-EAS443:3:25:1099:1718#0/1
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+HWI-EAS443:3:25:1099:1718#0/1
`b`abbabb`^]_bbbbbb`bbbbbaababbaabbaa_b
@HWI-EAS443:3:25:1106:483#0/1
AAACCGTATTTAAAGCGACGATAAATACATTTGAAAAAAA
+HWI-EAS443:3:25:1106:483#0/1
abbabbaabbbbbaaaaaa^baaaaaa_`aaaaa``a``a
@HWI-EAS443:3:25:1241:1619#0/1
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+HWI-EAS443:3:25:1241:1619#0/1
aab^aabababbaaba`aa^a_aaaaa¥a`Waa_¥aa_a_
@HWI-EAS443:3:25:1270:1162#0/1
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+HWI-EAS443:3:25:1270:1162#0/1
abbbb`[`bbb`b`ab^^abbbbabbba_U¥ab`Waa
@HWI-EAS443:3:25:1400:126#0/1
AAAGACGATCAGTAATCCACAATATCAGGTGCAAGATCCC
+HWI-EAS443:3:25:1400:126#0/1
abbbbabaaZaaU``]`^Ya^a_`__Y^^_W¥Y]`[^WSRT
@HWI-EAS443:3:25:1406:1323#0/1
CAATGACGAGAGGATCACTTGAATCGCTGCATCTGCACTC
+HWI-EAS443:3:25:1406:1323#0/1
Z]a_M`_a]b_`¥b[aa]ba[[^Z_aaUa]_a[a`^^`Z
@HWI-EAS443:3:25:1448:1292#0/1
CGTCATTGCAGCAAATATCATTGGGATCTTGACCTGATA
+HWI-EAS443:3:25:1448:1292#0/1
_`babbbbbbbababbaa`b`T`aabbaba`^XYZb`aa
@HWI-EAS443:3:25:1455:500#0/1
ATGGTACATGCAATGAGAACTATTGGGACTCATCCTAGCT

+HWI-EAS443:3:25:1455:500#0/1
Y` ` _¥Y^¥[Kaa`a_ab_S[^¥V`b` `b^_aa]H^Z¥]Y
@HWI-EAS443:3:25:1550:1255#0/1
TCTGTTCAACAAGTGGCACACACTAGACCAAAGCAGCTTC
+HWI-EAS443:3:25:1550:1255#0/1
a`a__aa`aaaaU`_]`^^^__^^^__[V]^]¥VXX
@HWI-EAS443:3:25:1660:1165#0/1
TGCAGATGCAGCGATTCAAGTGATCCTCTCGTCATTGCAG
+HWI-EAS443:3:25:1660:1165#0/1
KW^aabbUZaZ^^^^[OR¥UX_aUQqa[X¥FFUZx^[_a
@HWI-EAS443:3:25:1780:936#0/1
ATGGGCCTCATATACAACAGGATGGGAACAGTGACCACAG
+HWI-EAS443:3:25:1780:936#0/1
ababb`bbbbbbbaaba¥aa]_a^`X¥XIXaT`_V[[U__
@HWI-EAS443:3:25:229:1001#0/1
TGTGGATTACTGATCGTCTTTTTTCAAATGTATTTATCG
+HWI-EAS443:3:25:229:1001#0/1
a`P__`^b` ``]`^`¥` ``]¥aZa]W¥a`L__`[`¥^_
@HWI-EAS443:3:25:234:80#0/1
ATTTGCTGCAATGACGAGAGGATCACTTGAATCGCTGCAT
+HWI-EAS443:3:25:234:80#0/1
¥^`bbaabbb`]ba¥`^b¥ba[X]a`a^aaa`^a` ``]]`X
@HWI-EAS443:3:25:250:33#0/1
AAGATTGGTCTTGTCTTTAGCCATTCCATGAGAGCCTCAA
+HWI-EAS443:3:25:250:33#0/1
^Tbb_bababbbbaabbaaba_bbaaa`a_[a^_]a[`_^
@HWI-EAS443:3:25:306:2000#0/1
AGATGGTACATGCAATGAGA ACTATTGGGACTCATCCTAG
+HWI-EAS443:3:25:306:2000#0/1
abbaaa]baa`abaa`a`a_a`a`a__]^` ` `a^a_^a[
@HWI-EAS443:3:25:349:1796#0/1
AGCACTACGGCAAAGGCTATGGAACAGATGGCTGGATCGA
+HWI-EAS443:3:25:349:1796#0/1
[F[`[¥_a¥]ZS` `[ZXL]N_NRR]V^THMQ^UZLLNXX
@HWI-EAS443:3:25:35:1041#0/1
AGAGGATCACTTGAATCGCTGCATCTGCACTCCCATTTCGC
+HWI-EAS443:3:25:35:1041#0/1
ab]aa`a`aaaa`aaaa`a` `aa^`aaa_a`a`^`_`^Y]
@HWI-EAS443:3:25:445:1036#0/1
GCCTCATATACAACAGGATGGGAACAGTGACCACAGAAGC
+HWI-EAS443:3:25:445:1036#0/1
`_`__a__a`^`V[^¥¥¥__¥_¥^^WY^[T[W^¥USQQ
@HWI-EAS443:3:25:460:1698#0/1
GACCGATGCTGTGAATCAGCAATCTGTTCAAGTGGCAC
+HWI-EAS443:3:25:460:1698#0/1
aaa^Ha__a`Z^`a_Z^^X` `¥SZ`¥_T`¥_¥VPS¥V_T
@HWI-EAS443:3:25:622:1229#0/1
CGAATGGGAGTGCAGATGCAGCGATTCAAGTGATCCTCTC
+HWI-EAS443:3:25:622:1229#0/1
a`[_bbba_a]abb`_ba`a^abb` `aaa`¥]` ``aaa_a

@HWI-EAS443:3:25:830:255#0/1
ATGGGCCTCATATACAACAGGATGGGAACAGTGACCACAG
+HWI-EAS443:3:25:830:255#0/1
a`__a`____`a¥]____X^¥]]]]^X^YY]]V]^YYYYVY
@HWI-EAS443:3:25:895:1257#0/1
ATCTGCACTCCCATTCGCTTCTGGTAGGCCTGCAAATTTT
+HWI-EAS443:3:25:895:1257#0/1
aaa`baaaaa`_a`_a__^^V^¥^[SV^__USY^^_^^
@HWI-EAS443:3:25:908:193#0/1
CAAGATTGGTCTTGTCTTTAGCCATTCCATGAGAGCCTCA
+HWI-EAS443:3:25:908:193#0/1
abaaaabb_Wbbaa`aabaa`a^aa`^`^`]a`_^_X]^_^^_
@HWI-EAS443:3:25:983:103#0/1
TGAGACCGATGCTGTGAATCAGCAATCTGTTCAAGTGG
+HWI-EAS443:3:25:983:103#0/1
`bbX¥_W_J0`a`[ba^aaab`)]`_ab[`_][^aa]_^
@HWI-EAS443:3:25:985:277#0/1
CAGGTGCAAGATCCCAATGATATTTGCTGCAATGACGAGA
+HWI-EAS443:3:25:985:277#0/1
¥_¥¥H¥b`a`S_ZQ__X`a_b_]_¥`b`baa`^H`a`
@HWI-EAS443:3:26:1024:62#0/1
GTGCCACTTGTGAACAGATTGCTGATTCACAGCATCGGTC
+HWI-EAS443:3:26:1024:62#0/1
]FZV^aZ]Za`a`^aa]_]`R¥[[_]Y[U^`Y_^Wa_PN
@HWI-EAS443:3:26:1463:465#0/1
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+HWI-EAS443:3:26:1463:465#0/1
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+HWI-EAS443:3:26:1517:1568#0/1
¥a^ZYZU^^[_a`[Va^^a[`a[aa_aa^aTWZ_[UYRY
@HWI-EAS443:3:26:1691:1086#0/1
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+HWI-EAS443:3:26:1691:1086#0/1
`S_bbabaabaYS¥U_ba]abaa^]`^abaaaa`W_^^a^
@HWI-EAS443:3:26:184:1525#0/1
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+HWI-EAS443:3:26:184:1525#0/1
aaaZLT_]aaa_XGVNX[[W_¥^WLHQU]Z¥__¥RHFTQY
@HWI-EAS443:3:26:303:1750#0/1
ATCCCAATGATATTTGCTGCAATGACGAGAGGATCACTTG
+HWI-EAS443:3:26:303:1750#0/1
aQ`a]^]^aa`____a__]__`¥^`]_VTR]_X]T¥Z
@HWI-EAS443:3:26:447:557#0/1
GGAGGTTGCTAATCAGACTAGGCAGATGGTACATGCAATG
+HWI-EAS443:3:26:447:557#0/1
a`aaa^aaaa`a__aa`_`____a^^`[R`^_¥____^Z
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+HWI-EAS443:3:26:525:2023#0/1
aXIT]ST]]aPYV^RISMPU^T¥^¥STPTKG¥MWT¥WWB
@HWI-EAS443:3:26:656:1884#0/1
CAAGTGGCACACTAGACCAAAGCAGCTTCTGTGGTCA
+HWI-EAS443:3:26:656:1884#0/1
aaa`Pa`bb]abba_b[`] `aaba]Zb^^`_ba_NP]VZ¥
@HWI-EAS443:3:26:699:901#0/1
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+HWI-EAS443:3:26:699:901#0/1
a_PS`WWYYVU[¥Y]UUVT]^YNUKXVSPZWNOUNTRPB
@HWI-EAS443:3:26:74:923#0/1
ATGGGAGTGCAGATGCAGCGATTCAAGTGATCCTCTCGTC
+HWI-EAS443:3:26:74:923#0/1
aabba^_]aa`a_a` ``__a_`]__`W]`_a]^]]a]X_
@HWI-EAS443:3:26:840:2020#0/1
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+HWI-EAS443:3:26:840:2020#0/1
aa]a`^`a`a`^^aZ`a`a_____]`_`]Wa_]]]XZTUR
@HWI-EAS443:3:26:872:637#0/1
GCTAATCAGACTAGGCAGATGGTACATGCAATGAGAACTA
+HWI-EAS443:3:26:872:637#0/1
aaaaaaaaab]`aaa_aaa___aW__^^`_^___^`]`Z_Z
@HWI-EAS443:3:26:886:1051#0/1
GTTCTTTCTGCAAAGACACTTTCCAGTCTCTGCGCGATC
+HWI-EAS443:3:26:886:1051#0/1
a[OFW`_WJL^]XPSXW]VVa[`]Q]_S__¥¥S¥BBBBBB
@HWI-EAS443:3:26:989:1590#0/1
GTCCCCATTCCCATTTAGGGCATTGTTGGACAAAGCGTCTA
+HWI-EAS443:3:26:989:1590#0/1
]R]]_ZUU[_¥XWWXV^__X¥YYS^QZZSOYY_VM[BBBB
@HWI-EAS443:3:27:1077:1651#0/1
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+HWI-EAS443:3:27:1077:1651#0/1
aaaabbbb^bbabaa`aaaaaa^a[0¥^b_a_`a_`a¥_
@HWI-EAS443:3:27:1151:377#0/1
CAAGAAGCTCAAAAGAGAAATAACGTTCCATGGGGCCAAG
+HWI-EAS443:3:27:1151:377#0/1
abbb`bbab_baaaabaabbba^a`a_^aaaa`a]_a_a
@HWI-EAS443:3:27:1176:1118#0/1
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+HWI-EAS443:3:27:1176:1118#0/1
aa`a]]Ya`aaa_aW^_aaaa__a]_a_` `_____]_Za_
@HWI-EAS443:3:27:1184:643#0/1
ATCGCTGCATCTGCACTCCCATTCGCTTCTGGTAGGCCTG
+HWI-EAS443:3:27:1184:643#0/1
aa^aXaaZb][^`Va]aa^]V`_]aYYaX`[^X_`YLPW`
@HWI-EAS443:3:27:1236:1124#0/1
CAAGTGGCACACTAGACCAAAGCAGCTTCTGTGGTCA
+HWI-EAS443:3:27:1236:1124#0/1
]aab^¥Xabbbb_^abb_ababbab[bb`baa`b]aaR_b

@HWI-EAS443:3:27:1316:1004#0/1
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+HWI-EAS443:3:27:1316:1004#0/1
XSSXU¥`¥_]ZZa¥Z[WPDQZaaZ`_HOROZN]SBBBBB
@HWI-EAS443:3:27:134:935#0/1
GCTGGCTAGCACTACGGCAAAGGCTATGGAACAGATGGCT
+HWI-EAS443:3:27:134:935#0/1
aba]ab_a_Y_]Xa`^aa^]a`Xa]]^ZYX`^^UX_^YP
@HWI-EAS443:3:27:1360:1334#0/1
AAATACATTTGAAAAAAGACGATCAGTAATCCACAATAT
+HWI-EAS443:3:27:1360:1334#0/1
_`babbaaaa_aaaa`_aaa`]__YZYaXW]_`^Y_Y
@HWI-EAS443:3:27:1364:665#0/1
GCAGGCCTACCAGAAGCGAATGGGAGTGCAGATGCAGCGA
+HWI-EAS443:3:27:1364:665#0/1
aa`baaabaa`aa_aa_a^_aa^^¥_¥`]`_^¥]¥^`¥`¥`¥`
@HWI-EAS443:3:27:1474:1336#0/1
TTCCCATCCTGTTGTATATGAGGCCCATGCAACTGGCAAG
+HWI-EAS443:3:27:1474:1336#0/1
aaaa`baX¥[Xb¥Ra_[_Z]XKP_R_aS¥^XUY_RRU¥^
@HWI-EAS443:3:27:1537:444#0/1
GATGGGAACAGTGACCACAGAAGCTGCTTTTGGTCTAGTG
+HWI-EAS443:3:27:1537:444#0/1
_¥a¥__Sa`__XUYa[[_`^aXSTT[^QT¥WLWU]]^BBB
@HWI-EAS443:3:27:1538:1382#0/1
TCTTGCACCTGATATTGTGGATTACTGATCGTCTTTTTTTT
+HWI-EAS443:3:27:1538:1382#0/1
¥b`a`_¥_`b]aabab`ab^aa]X^a^`X`_`aaaaaaa
@HWI-EAS443:3:27:1723:406#0/1
ATCAGGTGCAAGATCCCAATGATATTTGCTGCAATGACGA
+HWI-EAS443:3:27:1723:406#0/1
_bbX`^`a^`bbaZ]]_ZW^baaaaa_¥Y`]Y_aa`aV`a
@HWI-EAS443:3:27:297:935#0/1
CAGCGATTCAAGTGATCCTCTCGTCATTGCAGCAAATATC
+HWI-EAS443:3:27:297:935#0/1
abaabaabaa`a_aaaaaabaaa_aa`_`a`_a`aa_a_a
@HWI-EAS443:3:27:38:884#0/1
GTGGATTACTGATCGTCTTTTTTTCAAATGTATTTATCGT
+HWI-EAS443:3:27:38:884#0/1
a]`aaa`a`aaaaaa^aaaaaaa¥S¥a_Z^aa``a]WV
@HWI-EAS443:3:27:405:297#0/1
GACAAGACCAATCTTGTACCTCTGACTAAGGGAATTTTA
+HWI-EAS443:3:27:405:297#0/1
a`¥WYV¥__]RVYR_[U`_`Z^[T`]__[X`__^¥^]]Y^
@HWI-EAS443:3:27:461:144#0/1
GAACAGTGACCACAGAAGCTGCTTTTGGTCTAGTGTGTGC
+HWI-EAS443:3:27:461:144#0/1
aaaaaa]bbaaaaa`aa^_`^__^^_VW^^UV[U]UZU
@HWI-EAS443:3:27:476:1711#0/1
GTGACCACAGAAGCTGCTTTTGGTCTAGTGTGTGCCACTT

+HWI-EAS443:3:27:476:1711#0/1
a^`bbbaaba]baa_`aa_`a_Z]a_a]_[¥_XX__aY^_
@HWI-EAS443:3:27:539:437#0/1
GTCCCCATTCCCATTTAGGGCATTGACAAAGCGTCTA
+HWI-EAS443:3:27:539:437#0/1
]R`T_aTbbbITZ]]RXQW¥U]a]aaT`T¥^_`a^U[_`
@HWI-EAS443:3:27:550:446#0/1
CTAGTGTGTGCCACTTGTGAACAGATTGCTGATTCACAGC
+HWI-EAS443:3:27:550:446#0/1
^__bX^Y^bVaa^bab¥QR]aba[bbbbVaabbbbb_bba
@HWI-EAS443:3:27:613:1784#0/1
GTGCCACTTGTGAACAGATTGCTGATTCACAGCATCGGTC
+HWI-EAS443:3:27:613:1784#0/1
aYU^__a``RQ]a^aXa]^_a¥V`[]]a`_Y_`]___VR
@HWI-EAS443:3:27:905:1432#0/1
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+HWI-EAS443:3:27:905:1432#0/1
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@HWI-EAS443:3:28:1118:617#0/1
GTGAATCAGCAATCTGTTCCACAAGTGGCACACACTAGACC
+HWI-EAS443:3:28:1118:617#0/1
a^aaaaaaa¥a_a_aa``_`_`_aXa]_a_]_W_____VT
@HWI-EAS443:3:28:1172:1487#0/1
GGGTCCCCATTCCCATTTAGGGCATTGACAAAGCGTC
+HWI-EAS443:3:28:1172:1487#0/1
a_TUTYZbb[RQ_a`bbaabZ¥La``]a`]¥0aVaS`BBB
@HWI-EAS443:3:28:1230:1514#0/1
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+HWI-EAS443:3:28:1230:1514#0/1
`aY^b[bbba`aabbaaaaa`aaa¥`_]_ZTaa_¥_¥aa`
@HWI-EAS443:3:28:1266:686#0/1
CCTGATATTGTGGATTACTGATCGTCTTTTTTTCAAATGT
+HWI-EAS443:3:28:1266:686#0/1
_ZSUY^[`bb¥b^Z¥ba]_bVaJa[]baabaab_^]U[b_
@HWI-EAS443:3:28:1285:1938#0/1
CAGCAATCTGTTCCACAAGTGGCACACACTAGACCAAAAAGC
+HWI-EAS443:3:28:1285:1938#0/1
U_[[bbabaaY]`bKbbaJ_[0[`_[baUb[a`[[a`[aX
@HWI-EAS443:3:28:1340:791#0/1
GACCACAGAAGCTGCTTTTGGTCTAGTGTGTGCCACTTGT
+HWI-EAS443:3:28:1340:791#0/1
^`a]a`bbaaaaa^aabaab_`a`a_a[`^a[_`U`_X^
@HWI-EAS443:3:28:135:132#0/1
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+HWI-EAS443:3:28:135:132#0/1
aa`X__`¥`UV`[[`_`VX_]^[UWYV¥W¥UY¥UT[MDK
@HWI-EAS443:3:28:1374:1702#0/1
CAGCAATCTGTTCCACAAGTGGCACACACTAGACCAAAAAGC
+HWI-EAS443:3:28:1374:1702#0/1
^ba^^_a`aa_a`aaaaQ`^_b`aaa]`a_¥¥Wa_a_¥B

@HWI-EAS443:3:28:1512:1149#0/1
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+HWI-EAS443:3:28:1512:1149#0/1
]`X]U^_aaaa_a`__a_¥a_aaa_a`_]^[X`^_
@HWI-EAS443:3:28:162:312#0/1
GGCTAGCACTACGGCAAAGGCTATGGAACAGATGGCTGGA
+HWI-EAS443:3:28:162:312#0/1
abaa]aaaa`aa`a]aa¥aa_^`¥]a^aY^`TYW^`_`ZP
@HWI-EAS443:3:28:1713:1563#0/1
GGCCAAGGAGGTGTCACCTAAGCTATTCAACTGGTGCACCT
+HWI-EAS443:3:28:1713:1563#0/1
]¥ZbbabaaaWG`bXaaaabbUba`]_a```aaNaQ`[_a
@HWI-EAS443:3:28:1742:793#0/1
CTACCAGAAGCGAATGGGAGTGCAGATGCAGCGATTCAAG
+HWI-EAS443:3:28:1742:793#0/1
abbbbbbbbbbbbabbaaab]babaa_aa_ba]aa`a^
@HWI-EAS443:3:28:184:1383#0/1
CAGCAATCTGTTCAAGTGGCACACACTAGACCAAAAAGC
+HWI-EAS443:3:28:184:1383#0/1
a`]`abb_aa_Za^¥aaa`_a`_]aabab_^]a``aZ`Z^a
@HWI-EAS443:3:28:261:699#0/1
CAACTGGCAAGTGCACCAGTTGAATAGCTTAGTGACACCT
+HWI-EAS443:3:28:261:699#0/1
XW`¥ZZ^_W^`TWX_]`[a¥a`W_]aa]]P]RX[^`a`Z
@HWI-EAS443:3:28:271:773#0/1
GTGGATTACTGATCGTCTTTTTTCAAATGTATTTATCGT
+HWI-EAS443:3:28:271:773#0/1
a_bZY`a`aYaa`aa]``aaaaa`_R_¥`S`_a_``a_¥
@HWI-EAS443:3:28:276:345#0/1
TACATTTGAAAAAAGACGATCAGTAATCCACAATATCAG
+HWI-EAS443:3:28:276:345#0/1
a`bbabbba`a_`aaaaaa^¥¥^WY`_]a`]YU__XYN
@HWI-EAS443:3:28:281:810#0/1
CTAGTGTGTGCCACTTGTGAACAGATTGCTGATTACAGC
+HWI-EAS443:3:28:281:810#0/1
a`]`^a`R`aaa`____]`a^^a_^`¥_a`^^^`_]____
@HWI-EAS443:3:28:341:1060#0/1
GCTGCTTTTGGTCTAGTGTGTGCCACTTGTGAACAGATTG
+HWI-EAS443:3:28:341:1060#0/1
aa`aaaa`aa__`a^_Ua`_U__`_]_[_][Z[¥____¥__
@HWI-EAS443:3:28:346:470#0/1
GCCTCATATACAACAGGATGGGAACAGTGACCACAGAAGC
+HWI-EAS443:3:28:346:470#0/1
aaaaaaa`aaaaa^aa__```_a_a_Y`a_¥`^a_^Y^]
@HWI-EAS443:3:28:388:437#0/1
GGGCCTCATATACAACAGGATGGGAACAGTGACCACAGAA
+HWI-EAS443:3:28:388:437#0/1
abaaaaabaaaaaaa`aaaaaaa`¥`Ya`_``a`_`_`
@HWI-EAS443:3:28:588:721#0/1
CGCTGCATCTGCACTCCCATTCGCTTCTGGTAGCCTGCA

+HWI-EAS443:3:28:588:721#0/1
abaabbbbaaba_aaaaaaaaaaaaaaaaaaXW_aa[_`a`a
@HWI-EAS443:3:28:589:2008#0/1
GGCTAGCACTACGGCAAAGGCTATGGAACAGATGGCTGGA
+HWI-EAS443:3:28:589:2008#0/1
^^XNOVTRYba[Z_][aV[RU^YLUJ¥VX[^PN¥BBBBB
@HWI-EAS443:3:28:635:1526#0/1
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+HWI-EAS443:3:28:635:1526#0/1
abb_abbbbbbab]`b`]_aa`^`V`¥a`^a¥a]_`aaT
@HWI-EAS443:3:28:644:492#0/1
AAAAAGACGATCAGTAATCCACAATATCAGGTGCAAGATC
+HWI-EAS443:3:28:644:492#0/1
a```aaaaa¥WWYO^`QS¥ZG¥`0`WTTOQOUWX_W[TS
@HWI-EAS443:3:28:668:1055#0/1
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+HWI-EAS443:3:28:668:1055#0/1
`S_aa]a``]^_a_Z]^`aaaX^]_]Z[[X]POZ`a]T[
@HWI-EAS443:3:28:751:622#0/1
TGCCTGTTCACTCGATCCAGCCATCTGTTCCATAGCCTTT
+HWI-EAS443:3:28:751:622#0/1
`ba`¥`Sa]abSb_^aX]aa`^`U^`U]_¥_ZZ_¥X_R^
@HWI-EAS443:3:28:784:550#0/1
CATTTGAAAAAAGACGATCAGTAATCCACAATATCAGGT
+HWI-EAS443:3:28:784:550#0/1
[^b`¥aU`a^¥bb`bb``]Y]Z_XXXa`a^WZ_K[¥[L
@HWI-EAS443:3:28:870:1717#0/1
TGGGCCTCATATACAACAGGATGGGAACAGTGACCACAGA
+HWI-EAS443:3:28:870:1717#0/1
[TO`b_Q[^a_a`_b_aba`X]]TXT]^[[[]¥X^S_]__
@HWI-EAS443:3:28:91:971#0/1
CAGCAATCTGTTCAAGTGGCACACACTAGACCAAAAGC
+HWI-EAS443:3:28:91:971#0/1
ababbbabab_bbbbb]a^aa`a_aaa``aaaaaaXa]a
@HWI-EAS443:3:28:926:1660#0/1
CGAGAGGATCACTTGAATCGCTGCATCTGCACTCCCATTC
+HWI-EAS443:3:28:926:1660#0/1
a^aab``aVaaa[[¥aa^`aZMQ[`WYZ_XW_Y_^YYYQP
@HWI-EAS443:3:28:957:293#0/1
ATCCCAATGATATTTGCTGCAATGACGAGAGGATCACTTG
+HWI-EAS443:3:28:957:293#0/1
aY`aaaa]b_aa_¥]aYaaa_]_aa_aa_____TW][V`¥[
@HWI-EAS443:3:29:1053:1664#0/1
ATCCCAATGATATTTGCTGCAATGACGAGAGGATCACTTG
+HWI-EAS443:3:29:1053:1664#0/1
aa[aa^_ab`a`^X`[¥a[a^TY`Z`a`a^¥I]¥[bR_B
@HWI-EAS443:3:29:1138:1941#0/1
ATGGGCCTCATATACAACAGGATGGGAACAGTGACCACAG
+HWI-EAS443:3:29:1138:1941#0/1
[`]b_K_aba`ab`a]bVLV`__aabUa]X_a``]Z]B

@HWI-EAS443:3:29:1190:1390#0/1
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+HWI-EAS443:3:29:1190:1390#0/1
aabbbaabb¥¥^__aaa__SUF[_T_W[_a]W_^P¥V_
@HWI-EAS443:3:29:1320:1174#0/1
ACCTGATATTGTGGATTACTGATCGTCTTTTTTTCAAATG
+HWI-EAS443:3:29:1320:1174#0/1
ababb`baaab]ba`aaa_`aaa_a]^aaaaaa`aaa``
@HWI-EAS443:3:29:1323:148#0/1
CCATTCTGTTTTCATGCCTGATTAGTGGATTGGTGGTAGT
+HWI-EAS443:3:29:1323:148#0/1
`bbbbabbbbb`a^b`abbabbaa`bbaabaa^aBBBBB
@HWI-EAS443:3:29:1442:895#0/1
AGGATCACTTGAATCGCTGCATCTGCACTCCCATTCGCTT
+HWI-EAS443:3:29:1442:895#0/1
[ba¥^V`ab]b`ab_a_`[[Y`¥[b^RZ[¥[_[aa_]U_U
@HWI-EAS443:3:29:1619:1226#0/1
GGGCCTCATATACAACAGGATGGGAACAGTGACCACAGAA
+HWI-EAS443:3:29:1619:1226#0/1
abb^ababb^b_babab]_abbbbaa_bbGaaa`U_aa_a
@HWI-EAS443:3:29:1754:1115#0/1
CGCTGCATCTGCACTCCCATTCGCTTCTGGTAGGCCTGCA
+HWI-EAS443:3:29:1754:1115#0/1
a`[_b_a`bbbaa`aaY__aa_b`Va]a]¥`ab_TZa][
@HWI-EAS443:3:29:1761:867#0/1
GTGCCACTTGTGAACAGATTGCTGATTCACAGCATCGGTC
+HWI-EAS443:3:29:1761:867#0/1
`[^`a]¥`bbTW[^`]]_`^`a_]YWa¥¥_S^_Y^a_`XBB
@HWI-EAS443:3:29:488:421#0/1
CTTTCCTGCAAAGACACTTTCCAGTCTCTGCGGATCTCG
+HWI-EAS443:3:29:488:421#0/1
ababaaaab¥T_aa`aXaa`^a_`¥a`a_a`a_XV^¥¥`
@HWI-EAS443:3:29:491:329#0/1
GCCTACCAGAAGCGAATGGGAGTGCAGATGCAGCGATTCA
+HWI-EAS443:3:29:491:329#0/1
`VbYQ][¥a¥YZYZPN_[PKXN^RR^WRUURUW[BBBBB
@HWI-EAS443:3:29:54:1398#0/1
GGTGTCACTAAGCTATTCAACTGGTGCCTTGCCAGTTGC
+HWI-EAS443:3:29:54:1398#0/1
`¥WWZabb_¥_aa__a`aa_`aZRY]aaa`Y`b[UZZ]^`
@HWI-EAS443:3:29:570:1766#0/1
CTAGTGTGTGCCACTTGTGAACAGATTGCTGATTACAGC
+HWI-EAS443:3:29:570:1766#0/1
a_a_____`^a`aa`_`_`W_`_`_`a_`¥¥¥^`_]_Wa`^`^^
@HWI-EAS443:3:29:639:1227#0/1
GAAGCTCAAAAGAGAAATAACGTTCCATGGGGCCAAGGAG
+HWI-EAS443:3:29:639:1227#0/1
aa`^aS¥V_¥¥`¥TR¥abY]^`Q]aaa]WUZLaBBBBBBB
@HWI-EAS443:3:29:639:683#0/1
ATCCCAATGATATTTGCTGCAATGACGAGAGGATCACTTG

+HWI-EAS443:3:29:639:683#0/1
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@HWI-EAS443:3:29:766:806#0/1
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+HWI-EAS443:3:29:766:806#0/1
aa`aa``aaaa_`_`a`X_____`a`¥`^^V_^^^Y]]
@HWI-EAS443:3:29:822:496#0/1
CTCAAAGAGAAATAACGTTCCATGGGGCCAAGGAGGTGT
+HWI-EAS443:3:29:822:496#0/1
`bbbaabb`ba`abaa_a`a`aab]Va`aa_a_`aaYa^
@HWI-EAS443:3:29:824:478#0/1
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+HWI-EAS443:3:29:824:478#0/1
a_abbbb_aabbaWabaaU`aa_]^^`_aaaa^_¥^
@HWI-EAS443:3:29:836:412#0/1
AGATCCCAATGATATTTGCTGCAATGACGAGAGGATCACT
+HWI-EAS443:3:29:836:412#0/1
aba`¥Ya^_abba^baab`aa]]`aa__aaaa^`^_a[^a
@HWI-EAS443:3:29:842:941#0/1
GGAACAGTGACCACAGAAGCTGCTTTTGGTCTAGTGTGTG
+HWI-EAS443:3:29:842:941#0/1
_ababbbUb_bbaaaabaaa`^aa]`]____^_X[^¥ZU
@HWI-EAS443:3:29:847:35#0/1
CACTAGACCAAAAGCAGCTTCTGTGGTCACTGTTCCCATC
+HWI-EAS443:3:29:847:35#0/1
aabbaba_[`bbab^ab`_`a_a^GX]`aRT^^aa_a__U
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GGGCTCATATACAACAGGATGGGAACAGTGACCACAGAA
+HWI-EAS443:3:29:86:129#0/1
]abbabbbbbbbaabaaaabb`aaaa_aaaaaaaaa_a
@HWI-EAS443:3:29:885:1153#0/1
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+HWI-EAS443:3:29:885:1153#0/1
Z]a^__`Z¥¥`a`W`XQYV_`a_¥__aaa__¥¥_`a^a
@HWI-EAS443:3:29:957:22#0/1
CAAGATCCCAATGATATTTGCTGCAATGACGAGAGGATCA
+HWI-EAS443:3:29:957:22#0/1
a_aaaa^a^a`a^`__aab_a_T]¥[`_Ta_a`^]SU[
@HWI-EAS443:3:2:105:522#0/1
GTGGATTACTGATCGTCTTTTTTCAAATGTATTTATCGT
+HWI-EAS443:3:2:105:522#0/1
a^aaaaaaaa_a`_`a¥^aaaaaaaaW_a`_a]`aa^__W_Z
@HWI-EAS443:3:2:1104:1769#0/1
AAGCGAATGGGAGTGCAGATGCAGCGATTCAAGTGATCCT
+HWI-EAS443:3:2:1104:1769#0/1
aVa]baa¥bb¥a_¥a]ab__bYaa_a`a^_a^^V]`_LV]
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+HWI-EAS443:3:2:1116:432#0/1
aaaaa_a`aa_``Yaa`]a¥_`__`_^_^Y`S_]`_^

@HWI-EAS443:3:2:1248:1064#0/1
ACAGATTGCTGATTCACAGCATCGGTCTCACAGACAGATG
+HWI-EAS443:3:2:1248:1064#0/1
a_aa__`a^^W^^]Y^WS_^U]^XWTXXX[WWXSJSXB
@HWI-EAS443:3:2:1262:104#0/1
GATGCAGCGATTCAAGTGATCCTCTCGTCATTGCAGCAAA
+HWI-EAS443:3:2:1262:104#0/1
aaba`ab¥a`aa`aaa[bb`[]¥`a_aZS_`a__]^L]^_
@HWI-EAS443:3:2:1324:437#0/1
CAGTGACCACAGAAGCTGCTTTTGGTCTAGTGTGTGCCAC
+HWI-EAS443:3:2:1324:437#0/1
^aaN_Z¥YWT`Z`a_S¥`]W^^a]^N[Z_`¥a¥a¥_U^VR
@HWI-EAS443:3:2:1426:106#0/1
GTGAGACCGATGCTGTGAATCAGCAATCTGTTCAAGTG
+HWI-EAS443:3:2:1426:106#0/1
aXa`a__Y____X]^X]]`UX^]]X^U^^YYXXWYXUXX
@HWI-EAS443:3:2:1457:1316#0/1
ATCAGACTAGGCAGATGGTACATGCAATGAGAACTATTGG
+HWI-EAS443:3:2:1457:1316#0/1
ab_aabWaaa`Z^a_Yaa^Y__`Qa[ZOU`^¥]^_¥a¥L
@HWI-EAS443:3:2:1757:980#0/1
TGGGCCTCATATACAACAGGATGGGAACAGTGACCACAGA
+HWI-EAS443:3:2:1757:980#0/1
a_^a^aa[^`a_]Uba_```b`_aUYaP¥a_[a__S¥Ya^
@HWI-EAS443:3:2:259:161#0/1
TGGAAAGTGTCTTTGCAGGAAAGAACACAGATCTTGAGGC
+HWI-EAS443:3:2:259:161#0/1
^]ZJUXb[aNU_[¥VLVUTSSUFWUXVOVB BBBB BBBB
@HWI-EAS443:3:2:312:1915#0/1
ACCAAAAGCAGCTTCTGTGGTCACTGTTCCCATCCTGTTG
+HWI-EAS443:3:2:312:1915#0/1
a____]_¥WY^`UYX_RSY¥_PSSVUVW]YYVVQJNY]]B
@HWI-EAS443:3:2:326:1551#0/1
ATACAAGAAGCTCAAAGAGAAATAACGTTCCATGGGGCC
+HWI-EAS443:3:2:326:1551#0/1
aab_`aa`a`a`]Taaaa`a_a^aaU^Y^[]_____^`Z
@HWI-EAS443:3:2:375:1125#0/1
CAAGTGGCACACACTAGACCAAAGCAGCTTCTGTGGTCA
+HWI-EAS443:3:2:375:1125#0/1
abab`bb¥baaaa__`aa]_aaSaaaaZ^_^``¥_aSV_
@HWI-EAS443:3:2:382:297#0/1
GGGAGTGCAGATGCAGCGATTCAAGTGATCCTCTCGTCAT
+HWI-EAS443:3:2:382:297#0/1
a^`WaW`¥Z^^¥WQ¥WTaWYYYWYUWW¥WYWYWWYWTYW
@HWI-EAS443:3:2:409:1714#0/1
CATGGGGCCAAGGAGGTGTCACTAAGCTATTCAACTGGTG
+HWI-EAS443:3:2:409:1714#0/1
ababbaa_abb_aaa`b`b`aba]Uaaaa]aa_^Z¥a
@HWI-EAS443:3:2:535:780#0/1
GGCCTCATATACAACAGGATGGGAACAGTGACCACAGAAG

+HWI-EAS443:3:2:535:780#0/1
aa^[a_aaaaaa_`_a`_`a`a_]_`¥_`¥Z^T`^¥¥¥
@HWI-EAS443:3:2:540:115#0/1
ACCTTCTTGAAAATTTGCAGGCCTACCAGAAGCGAATGGG
+HWI-EAS443:3:2:540:115#0/1
__`_`a_^`a___¥R`^`_]aa_R]a_]`¥U[`Y^Y^UaBB
@HWI-EAS443:3:2:688:737#0/1
GGATCTTGCACCTGATATTGTGGATTACTGATCGTCTTTT
+HWI-EAS443:3:2:688:737#0/1
ababaaba_a^aaa_a^a_`[ab_aaaaaa`0a^¥a`a`
@HWI-EAS443:3:2:699:723#0/1
AGCGAATGGGAGTGCAGATGCAGCGATTCAAGTGATCCTC
+HWI-EAS443:3:2:699:723#0/1
[a^)`baZQ`PYSa_] [VV] [_T¥JVXNY¥STZBBBBBB
@HWI-EAS443:3:2:74:1705#0/1
TCTGCACTCCCATTGCTTCTGGTAGGCCTGCAAATTTTC
+HWI-EAS443:3:2:74:1705#0/1
`_]_^)`aa[_`aX[aa_]YPT_]Z[_^^`_`¥^[^N
@HWI-EAS443:3:2:758:97#0/1
GACCTTCTTGAAAATTTGCAGGCCTACCAGAAGCGAATGG
+HWI-EAS443:3:2:758:97#0/1
abababbbbababbababb_baa^aa[aaa`_`a^b__bba
@HWI-EAS443:3:2:954:1092#0/1
GGGAACAGTGACCACAGAAGCTGCTTTTGGTCTAGTGTGT
+HWI-EAS443:3:2:954:1092#0/1
ab_U`¥R¥P_a[ZY]_[aaYTZa¥UXZ¥Q_PPT¥SQBBBB
@HWI-EAS443:3:30:109:1385#0/1
AATCGCTGCATCTGCACTCCCATTGCTTCTGGTAGGCCT
+HWI-EAS443:3:30:109:1385#0/1
abaaV`_`abaab_aaaa_b_a___`_`^Z`¥UMU_^T[WS
@HWI-EAS443:3:30:1115:311#0/1
AAAAAAGACGATCAGTAATCCACAATATCAGGTGCAAGAT
+HWI-EAS443:3:30:1115:311#0/1
abbbbbbbabba^a`¥aaRSW_N]a^^ZVX^YH^T[_VVQ
@HWI-EAS443:3:30:1251:2042#0/1
GGGAGTGCAGATGCAGCGATTCAAGTGATCCTCTCGTCAT
+HWI-EAS443:3:30:1251:2042#0/1
¥_ba`_]UZ^bZ_[a_S^a[V[`_`S[a_]S]^_X^XYU^
@HWI-EAS443:3:30:1318:708#0/1
GCACCTGATATTGTGGATTACTGATCGTCTTTTTTTTCAAA
+HWI-EAS443:3:30:1318:708#0/1
aa_`_aaba_`ba`a¥_ab`_a`¥^__¥`aa`aaba^_^`
@HWI-EAS443:3:30:1322:125#0/1
CACAAATCCTAAAATTCCTTAGTCAGAGGTGACAAGATT
+HWI-EAS443:3:30:1322:125#0/1
abab_X`aaba_aaaa`_`_____¥¥^Z^`¥U_¥XUW]WWX
@HWI-EAS443:3:30:1353:517#0/1
CGTCTTTTTTTCAAATGTATTTATCGTCGCTTTAAATACG
+HWI-EAS443:3:30:1353:517#0/1
Xb`bba^b`a__W`bb`]aabaa¥HY`ab`bbb¥_^abWa

+HWI-EAS443:3:30:617:1478#0/1
aa___aaa^]W`Y]a`b`_`a``aaa]]Z¥Z[ZL]`[X¥¥
@HWI-EAS443:3:30:621:1151#0/1
ACAGAAGCTGCTTTTGGTCTAGTGTGTGCCACTTGTGAAC
+HWI-EAS443:3:30:621:1151#0/1
ab^_QW`b`^a_]¥Z]¥aaa_¥`^a]a`a`a`_`_]`_`
@HWI-EAS443:3:30:621:806#0/1
CAGCCATCTGTTCCATAGCCTTTGCCGTAGTGCTAGCCAG
+HWI-EAS443:3:30:621:806#0/1
ab`baaaaaa_aaaa¥`_aa]X^^`__¥]¥V`_`¥`_¥¥W¥
@HWI-EAS443:3:30:665:381#0/1
ACCTGATATTGTGGATTACTGATCGTCTTTTTTTCAAATG
+HWI-EAS443:3:30:665:381#0/1
abbaa]]^¥aa¥aaa[a`¥a`RY_aQ`_]aaaa^[_`_`S`
@HWI-EAS443:3:30:674:270#0/1
CAATCTTGTCACCTCTGACTAAGGGAATTTTAGGATTTGT
+HWI-EAS443:3:30:674:270#0/1
a`^^`[T^b__[_`I[^a_aaa_`ZYa^[_`a`V`_`^a^_Z
@HWI-EAS443:3:30:80:475#0/1
GTGACCACAGAAGCTGCTTTTGGTCTAGTGTGTGCCACTT
+HWI-EAS443:3:30:80:475#0/1
a¥`W__X__RR]]¥a¥]X[¥UYO0XXTHLZXS]_VXULV
@HWI-EAS443:3:30:83:1215#0/1
AGACTGGAAAGTGTCTTTGCAGGAAAGAACACAGATCTTG
+HWI-EAS443:3:30:83:1215#0/1
aaaaaa`a^Z`]a^a`__`__`__`_`__a_____^Y`]^]
@HWI-EAS443:3:30:860:1457#0/1
CGTCTTTTTTTCAAATGTATTTATCGTCGCTTTAAATACG
+HWI-EAS443:3:30:860:1457#0/1
a`_aaaabaa``aa`^a[_`aaaa`a_^]_^__``a^_^W]
@HWI-EAS443:3:30:940:1607#0/1
GACCGATGCTGTGAATCAGCAATCTGTTCAAGTGGCAC
+HWI-EAS443:3:30:940:1607#0/1
abbaab`aba```baaba`baaaba_a_aaab_R`^_aa
@HWI-EAS443:3:31:1028:1005#0/1
TTCGGGTCCCCATTCCCATTTAGGGCATTTTGGACAAAGC
+HWI-EAS443:3:31:1028:1005#0/1
]YN]^`^Y¥_ZZ_ZZ^^[^¥`ZXV_[ZaT]ZXW`_`Xa]¥[P
@HWI-EAS443:3:31:1183:1831#0/1
GTGACCACAGAAGCTGCTTTTGGTCTAGTGTGTGCCACTT
+HWI-EAS443:3:31:1183:1831#0/1
a_¥I¥a`¥[a¥PNYU¥TPX[XPVU^]^RPRMWPVVXWVY
@HWI-EAS443:3:31:1363:1596#0/1
TGGAGTTGCTAATCAGACTAGGCAGATGGTACATGCAAT
+HWI-EAS443:3:31:1363:1596#0/1
]UXa__G`_]_]Q_QZ¥¥^VZ[[¥UZXNT__JNL]SUH]XV
@HWI-EAS443:3:31:1393:1213#0/1
CAGTGACCACAGAAGCTGCTTTTGGTCTAGTGTGTGCCAC
+HWI-EAS443:3:31:1393:1213#0/1
aba^abba`baaaaaaa`^__a^^X____`U_]X`^^_R

@HWI-EAS443:3:31:145:1340#0/1
GTTCCGGTCCCCATTCCCATTTAGGGCATTGACAAAAG
+HWI-EAS443:3:31:145:1340#0/1
[GN_WX_M_`_`TW__^a_U[RYSWY]RPVVSZZ[IRRY
@HWI-EAS443:3:31:14:126#0/1
AGATCCCAATGATATTTGCTGCAATGACGAGAGGATCACT
+HWI-EAS443:3:31:14:126#0/1
aa_aaaa_aaa`_aa__`^^`_^__`^^`¥_] ^SVSWT]
@HWI-EAS443:3:31:1576:658#0/1
TGGAGTTGCTAATCAGACTAGGCAGATGGTACATGCAAT
+HWI-EAS443:3:31:1576:658#0/1
`aaaab¥a`^a_aa__`Z_VaXXUa]^`¥^X¥__W_^Z
@HWI-EAS443:3:31:1596:1383#0/1
TGGGCCTCATATACAACAGGATGGGAACAGTGACCACAGA
+HWI-EAS443:3:31:1596:1383#0/1
]¥_[`bbbaa_a`ba`bb`bbbbaaaabaa`X]aaa`
@HWI-EAS443:3:31:1662:1735#0/1
TACTGATCGTCTTTTTTCAAATGTATTTATCGTCGCTTT
+HWI-EAS443:3:31:1662:1735#0/1
ababbaaab`abaaaaa`a`aaa_aaaaaa¥__`_^aa_
@HWI-EAS443:3:31:1778:1251#0/1
TGATCGTCTTTTTTCAAATGTATTTATCGTCGCTTTAAA
+HWI-EAS443:3:31:1778:1251#0/1
aba`ab`abbbabba_aaaa]¥ab`_aa`_`a`_`a_]X
@HWI-EAS443:3:31:196:372#0/1
TGTGAATCAGCAATCTGTTCAAGTGGCACACACTAGAC
+HWI-EAS443:3:31:196:372#0/1
ab¥ba_aba_bba`a`_`_a_a_a_¥]^]__`_]____X
@HWI-EAS443:3:31:261:614#0/1
GGAACAGTGACCACAGAAGCTGCTTTTGGTCTAGTGTGTG
+HWI-EAS443:3:31:261:614#0/1
SaXWUaW¥aa[^`^^`b`^_bZWW]Z]^`^b]¥JU¥NR[V
@HWI-EAS443:3:31:278:109#0/1
CATGGGCCTCATATACAACAGGATGGGAACAGTGACCACA
+HWI-EAS443:3:31:278:109#0/1
__¥Z`]aab`X_`[]U_aR^]0[_aa[FWYSXG_]_^`¥[
@HWI-EAS443:3:31:376:305#0/1
ACTCGATCCAGCCATCTGTTCCATAGCCTTTGCCGTAGTG
+HWI-EAS443:3:31:376:305#0/1
aa`aaa`^a`Y¥`X¥^`_Z____Z^[^`_¥¥Y¥_¥SWTSW
@HWI-EAS443:3:31:468:311#0/1
AAGATCCCAATGATATTTGCTGCAATGACGAGAGGATCAC
+HWI-EAS443:3:31:468:311#0/1
aabaab`ba`a`aa`a`^^`a^aa`a`a_____a^__W[[]Z
@HWI-EAS443:3:31:572:346#0/1
GTGGCACACACTAGACCAAAGCAGCTTCTGTGGTCACTG
+HWI-EAS443:3:31:572:346#0/1
a`]R]baaa]^`_]Z_a`^]_`¥[`[XU¥^X^BBBB
@HWI-EAS443:3:31:59:922#0/1
GAATCAGCAATCTGTTCAAGTGGCACACACTAGACCAA

+HWI-EAS443:3:31:59:922#0/1
abbbbbbb`aaaa`a`a`a`^`_`aaaa`a_a_aa`a`
@HWI-EAS443:3:31:607:705#0/1
GGGCCTCATATACAACAGGATGGGAACAGTGACCACAGAA
+HWI-EAS443:3:31:607:705#0/1
aaaabaaaaaaaa_aa`aa`_`aa_S_a_[¥`_a¥`_[S^
@HWI-EAS443:3:31:633:979#0/1
AGTGCAGATGCAGCGATTCAAGTGATCCTCTCGTCATTGC
+HWI-EAS443:3:31:633:979#0/1
a^¥ab_¥`_aaaa`a`__`_]VW_W^`¥[_`__X`^`_]^U
@HWI-EAS443:3:31:685:549#0/1
CAGTAATCCACAATATCAGGTGCAAGATCCCAATGATATT
+HWI-EAS443:3:31:685:549#0/1
ababbabb`babaabaaaaZaabaaaaaba`_aaaa^_
@HWI-EAS443:3:31:717:547#0/1
ACCTGATATTGTGGATTACTGATCGTCTTTTTTTCAAATG
+HWI-EAS443:3:31:717:547#0/1
aab^[[[]]Z^aXY)`¥_]L]XWYQY__[a__`a^Z_WXYZ
@HWI-EAS443:3:31:721:1560#0/1
CACTCCCATTGCTTCTGGTAGGCCTGCAAATTTTCAAGA
+HWI-EAS443:3:31:721:1560#0/1
aababa`_a`a]aaa^`^V¥_]X`^a¥a`^¥__^_a_R`
@HWI-EAS443:3:31:809:1075#0/1
GGTTGCTAATCAGACTAGGCAGATGGTACATGCAATGAGA
+HWI-EAS443:3:31:809:1075#0/1
a_S¥ab`aa]W_aa^Sa_a___^`_S_ZYZ__`_SYY^]
@HWI-EAS443:3:31:854:1834#0/1
GGTGTCACTAAGCTATTCAACTGGTGCCTTGCCAGTTGC
+HWI-EAS443:3:31:854:1834#0/1
abP^`bbaabbbabb`bbb`Z[Z_aaaba`_`abZVU__`
@HWI-EAS443:3:31:87:916#0/1
GGCCTACCAGAAGCGAATGGGAGTGCAGATGCAGCGATTC
+HWI-EAS443:3:31:87:916#0/1
aababNbb_aababb`abbaaaaXaa`_a`]aaa`_JV^Z
@HWI-EAS443:3:31:917:1885#0/1
CGTCATTGCAGCAAATATCATTGGGATCTTGACCTGATA
+HWI-EAS443:3:31:917:1885#0/1
abZ^ba[bbaaab```^]`YZXQTMT[XUX¥^XUNZ`^^]
@HWI-EAS443:3:31:955:477#0/1
CAAGTGGCACACACTAGACCAAAGCAGCTTCTGTGGTCA
+HWI-EAS443:3:31:955:477#0/1
¥__ZY_a^a`babbaZ_Uaaaababb`aa_SXbZR^XXM
@HWI-EAS443:3:31:981:118#0/1
ATCTGTTCACAAGTGGCACACACTAGACCAAAGCAGCTT
+HWI-EAS443:3:31:981:118#0/1
S¥a¥b`_ba[babYbb``_ba]aaa`[ZZ^a_aaaaVa^
@HWI-EAS443:3:32:1046:1631#0/1
GATCAGTAATCCACAATATCAGGTGCAAGATCCCAATGAT
+HWI-EAS443:3:32:1046:1631#0/1
¥`_`abaabababbabb`bbabb^U`bbb^bababbbbbb

@HWI-EAS443:3:32:1113:549#0/1
AGTTCTCATTGCATGTACCATCTGCCTAGTCTGATTAGCA
+HWI-EAS443:3:32:1113:549#0/1
ab¥Z^^]`_RUZUZZ`W[a_YXQWFQ¥WRIS[]XTWJWZ`
@HWI-EAS443:3:32:1139:1700#0/1
GATCTTGCACCTGATATTGTGGATTACTGATCGTCTTTTT
+HWI-EAS443:3:32:1139:1700#0/1
¥`bbbb_babb_abab`baWaaa`abXa_aa^b^aaaa_a
@HWI-EAS443:3:32:116:691#0/1
CAAAAGCAGCTTCTGTGGTCACTGTTCCCATCCTGTTGTA
+HWI-EAS443:3:32:116:691#0/1
^WM¥X[¥U_a]Y_Y]TUVQZ¥]VYNR^_¥¥XXVQOONWMB
@HWI-EAS443:3:32:1182:1784#0/1
GAACAGTGACCACAGAAGCTGCTTTTGGTCTAGTGTGTGC
+HWI-EAS443:3:32:1182:1784#0/1
abb`^]_aba_a`b_a`_]`[¥X¥[_[]U[___ZWZWXN[Y
@HWI-EAS443:3:32:1204:88#0/1
TGCAGGCCTACCAGAAGCGAATGGGAGTGCAGATGCAGCG
+HWI-EAS443:3:32:1204:88#0/1
`baabbaaa]]^b_]b]a^]aa_a¥a¥aP^^¥^_U`^a
@HWI-EAS443:3:32:1237:86#0/1
GGCCTCATATACAACAGGATGGGAACAGTGACCACAGAAG
+HWI-EAS443:3:32:1237:86#0/1
aa`VVS_SaVVJS_Q_Wa`¥_Z[`SZPSP_`QTV_WZQRZ
@HWI-EAS443:3:32:1339:1482#0/1
CTTGAATCGCTGCATCTGCACTCCCATTGCTTCTGGTAG
+HWI-EAS443:3:32:1339:1482#0/1
a¥__U`^`_aS[Ua]QH]]¥`¥aa`YOXV`aXTV_[^R¥Z
@HWI-EAS443:3:32:1361:1307#0/1
GCCTCATATACAACAGGATGGGAACAGTGACCACAGAAGC
+HWI-EAS443:3:32:1361:1307#0/1
a`a`baa`ba`ba`a`aXaaa`_]`a]`_[Z_Ua_a`^`^
@HWI-EAS443:3:32:1392:692#0/1
CAAGATCTGTGTTCTTTCCTGCAAAGACACTTTCAGTCT
+HWI-EAS443:3:32:1392:692#0/1
a___U¥`]b`_Zaabaa`aab`__aZV]¥a[aV`Ya^_a
@HWI-EAS443:3:32:1550:1812#0/1
AAATATCATTGGGATCTTGCACCTGATATTGTGGATTACT
+HWI-EAS443:3:32:1550:1812#0/1
aba^aaaaa`_`a___a_a[_a[_a]__`^`Y`X¥^aa__
@HWI-EAS443:3:32:1583:870#0/1
CAGTAATCCACAATATCAGGTGCAAGATCCCAATGATATT
+HWI-EAS443:3:32:1583:870#0/1
aab`bbbbbabababaaabba^baaaaaa^[_abab_aabb
@HWI-EAS443:3:32:1670:681#0/1
CAGCAATCTGTTCAAGTGGCACACACTAGACCAAAAGC
+HWI-EAS443:3:32:1670:681#0/1
aaa¥baaaaaZaXa`^aUNZ][aXWV]X`Oa¥aV[¥aaaU
@HWI-EAS443:3:32:1688:1023#0/1
GTGGATTACTGATCGTCTTTTTTTTCAAATGTATTTATCGT

+HWI-EAS443:3:32:1688:1023#0/1
a`a^`aaa¥]U[`]_V¥]¥]^aa`¥]a`_`^`a^aXa[X]
@HWI-EAS443:3:32:177:1097#0/1
CACTAGACCAAAAGCAGCTTCTGTGGTCACTGTTCCCATC
+HWI-EAS443:3:32:177:1097#0/1
aba_`aabbb]KS^b`baa`a]¥[`]a`^`^IS]^`aaZB
@HWI-EAS443:3:32:199:2000#0/1
GTGCAGATGCAGCGATTCAAGTGATCCTCTCGTCATTGCA
+HWI-EAS443:3:32:199:2000#0/1
a_aa^_a[_aaaa_^]_`a[¥Z[Y]____^^]Y^__VV]P
@HWI-EAS443:3:32:210:703#0/1
GACCGATGCTGTGAATCAGCAATCTGTTCAAGTGGCAC
+HWI-EAS443:3:32:210:703#0/1
abaaa]_aa`¥^aaa_a]_a_`_[__Y]a_^_]U[W__`
@HWI-EAS443:3:32:265:1951#0/1
GCCTCATATACAACAGGATGGGAACAGTGACCACAGAAGC
+HWI-EAS443:3:32:265:1951#0/1
`bbbbbbbabbbbbbba`a_aaaab_a`V_baaa_a_]_Yb
@HWI-EAS443:3:32:362:294#0/1
ACCAATCTTGTCACCTCTGACTAAGGGAATTTTAGGATTT
+HWI-EAS443:3:32:362:294#0/1
aaaaaa_`a`a_^`^aa]`__^]]_^^]]^ZXT_]Z
@HWI-EAS443:3:32:471:1781#0/1
CGTCTTTTTTCAAATGTATTTATCGTCGCTTTAAATACG
+HWI-EAS443:3:32:471:1781#0/1
^GXa_`Y`¥`b`a^Z]L_`^`_¥]_Z¥_`_¥]]_`^X`X
@HWI-EAS443:3:32:477:458#0/1
GGGGCCAAGGAGGTGTCCTAAGCTATTCAACTGGTGCAC
+HWI-EAS443:3:32:477:458#0/1
ab`aaa`W`aba_baabaaaaaaaa`^^`¥^__U__a¥
@HWI-EAS443:3:32:47:796#0/1
GTCCTAAGCTATTCAACTGGTGCCTTGCCAGTTGCATG
+HWI-EAS443:3:32:47:796#0/1
a_abaa]_aa`[a`aaaa__`U_`_`__a_Y0[]__a_^]
@HWI-EAS443:3:32:545:739#0/1
AAACTATACAAGAAGCTCAAAGAGAAATAACGTTCCATG
+HWI-EAS443:3:32:545:739#0/1
aaa`aa_a_`aaaYa^`^`_`^_]a]]^`]Z_^XZ_]Z
@HWI-EAS443:3:32:587:1965#0/1
AATAGTTCTCATTGCATGTACCATCTGCCTAGTCTGATTA
+HWI-EAS443:3:32:587:1965#0/1
aa^ZRQ[``a]ZUN`b_a0aaaaZTY_a_X^UUX_GWQQY
@HWI-EAS443:3:32:60:1840#0/1
CGCGCAGAGACTGGAAAGTGTCTTTGCAGGAAAGAACACA
+HWI-EAS443:3:32:60:1840#0/1
aa`V^^[`[Z_`____`¥VU¥Z`VUSSZSRVR[KP¥^]R¥N
@HWI-EAS443:3:32:611:267#0/1
AGCGATTCAAGTGATCCTCTCGTCATTGCAGCAAATATCA
+HWI-EAS443:3:32:611:267#0/1
ZT_YZ[0]WZ]¥¥_]_]UWZ]W¥TMP[[¥MYOWFLLQ_B

@HWI-EAS443:3:32:667:1472#0/1
GGAGTGCAGATGCAGCGATTCAAGTGATCCTCTCGTCATT
+HWI-EAS443:3:32:667:1472#0/1
aaSUG_XUNN^`__aX[QRNXX]RNR]UYYX^U¥WBBBBB
@HWI-EAS443:3:32:800:429#0/1
TGGAGCTAGGATGAGTCCCAATAGTTCTCATTGCATGTAC
+HWI-EAS443:3:32:800:429#0/1
aabaaa`a`aaaa`a^aa`aaaaaaa`baaaa`[baa_ba
@HWI-EAS443:3:32:838:397#0/1
GTCCCCATTCCCATTTAGGGCATTGGACAAAGCGTCTA
+HWI-EAS443:3:32:838:397#0/1
a^a`aaaaaa`a_aaaaa`___aaaaaaV````_a[F[`a
@HWI-EAS443:3:32:839:1095#0/1
CTCATATACAACAGGATGGGAACAGTGACCACAGAAGCTG
+HWI-EAS443:3:32:839:1095#0/1
abbabaaabbbaaab]aaaa_aaa`^aaa`a`aaba``_`^
@HWI-EAS443:3:32:936:1264#0/1
CAGCAATCTGTTCAAGTGGCACACACTAGACCAAAAGC
+HWI-EAS443:3:32:936:1264#0/1
¥YVX`IW]`_¥Xaa¥R[_ZJVS]XX`MLJZLSQRTNTTLX
@HWI-EAS443:3:33:1022:875#0/1
GCTGCATCTGCACTCCCATTGCTTCTGGTAGGCCTGCAA
+HWI-EAS443:3:33:1022:875#0/1
abababababaaaaab`a`a`a`a`a`[_[ZFH]__^^_[
@HWI-EAS443:3:33:1057:1740#0/1
ATCCCAATGATATTTGCTGCAATGACGAGAGGATCACTTG
+HWI-EAS443:3:33:1057:1740#0/1
ZSb_aX_IN]]^aaa`b[PMT]^ZYN¥`V[LGPZ_WT_
@HWI-EAS443:3:33:1065:327#0/1
GTGTTCTTTCTGCAAAGACACTTTCCAGTCTCTGCGCGA
+HWI-EAS443:3:33:1065:327#0/1
`T_``aaaa^¥^ZV¥``[aXaX]YXXU]¥YZ[P[YUUTTT
@HWI-EAS443:3:33:1076:1722#0/1
TGTGAATCAGCAATCTGTTCAAGTGGCACACACTAGAC
+HWI-EAS443:3:33:1076:1722#0/1
aaaabbbb`_abb`bb``_baba``_aVa¥XDYV`a^a_
@HWI-EAS443:3:33:1080:1534#0/1
GATCACTTGAATCGCTGCATCTGCACTCCCATTGCTTCT
+HWI-EAS443:3:33:1080:1534#0/1
aaabbbabbaaaa``_abaaa`[aaa`a]Y]`W¥Z¥`Y_¥
@HWI-EAS443:3:33:1091:958#0/1
GCTGCAATGACGAGAGGATCACTTGAATCGCTGCATCTGC
+HWI-EAS443:3:33:1091:958#0/1
ababbabbbbbaaaaaa`_a`_aaaa`^a`¥V[___^¥`[
@HWI-EAS443:3:33:1197:1086#0/1
TTGTGGATTACTGATCGTCTTTTTTTCAAATGTATTTATC
+HWI-EAS443:3:33:1197:1086#0/1
abbab`a]__aa`_a]aa`aaaaYLZ]_^aXZ````^¥
@HWI-EAS443:3:33:1236:36#0/1
GGCCTCATATACAACAGGATGGGAACAGTGACCACAGAAG

+HWI-EAS443:3:33:1236:36#0/1
``bbbbbbba`babbbabbbb]a_SaYaa[G[¥aa__]
@HWI-EAS443:3:33:1264:1667#0/1
GAGGTTGCTAATCAGACTAGGCAGATGGTACATGCAATGA
+HWI-EAS443:3:33:1264:1667#0/1
_`^aaVZ¥b```¥]¥W_RVU]]Z^YXZW¥FX]YL[S[_Y[[
@HWI-EAS443:3:33:1297:1754#0/1
CAGGATGGGAACAGTGACCACAGAAGCTGCTTTTGGTCTA
+HWI-EAS443:3:33:1297:1754#0/1
a` `babb`baabaa^aba`a_aaaa`Ua`¥^`G^X`^W¥_
@HWI-EAS443:3:33:1330:1228#0/1
GCCTCATATACAACAGGATGGGAACAGTGACCACAGAAGC
+HWI-EAS443:3:33:1330:1228#0/1
^X^YT_]a]aZOS]UUTU[VX_R¥ZPRZU¥XGNPYNQUSD
@HWI-EAS443:3:33:1356:963#0/1
GGGCCTCATATACAACAGGATGGGAACAGTGACCACAGAA
+HWI-EAS443:3:33:1356:963#0/1
a[_`_ZU`_`___N_Y^SaaRZ_`]P`TS[Q¥WT¥WZZ¥WN
@HWI-EAS443:3:33:1437:801#0/1
GTGCACCAGTTGAATAGCTTAGTGACACCTCCTTGGCCCC
+HWI-EAS443:3:33:1437:801#0/1
a_a_a`_`_a`bbaaaaa`aaa___`___]a_YX^X]]XRX
@HWI-EAS443:3:33:1587:973#0/1
AGATCCCAATGATATTTGCTGCAATGACGAGAGGATCACT
+HWI-EAS443:3:33:1587:973#0/1
aaaaaaaaaaaaa`aaaa_aa]a_`a]^a`a_Y]Y]X^X_
@HWI-EAS443:3:33:1624:190#0/1
GAAAGATGACCTTCTTAAAAATTTGCAGGCCTACCAGAAG
+HWI-EAS443:3:33:1624:190#0/1
`_bbabaaa` `bbaabaaaaaaaaa_a__[aQWV^`¥_a
@HWI-EAS443:3:33:189:1661#0/1
GACGATAAATACATTTGAAAAAAGACGATCAGTAATCCA
+HWI-EAS443:3:33:189:1661#0/1
Z_¥aZ`a_b`b`Z^^¥W_¥aa`_¥X`¥bb¥b[¥[`^[_`_b
@HWI-EAS443:3:33:31:1756#0/1
GCTGCTTTTGGTCTAGTGTGTGCCACTTGTGAACAGATTG
+HWI-EAS443:3:33:31:1756#0/1
^`babbab_baabbbbaaaa`ba^abaabaa]aabaaaa]
@HWI-EAS443:3:33:325:1467#0/1
TGGGCCTCATATACAACAGGATGGGAACAGTGACCACAGA
+HWI-EAS443:3:33:325:1467#0/1
a_Z^bbbbbbbabba_baa`a`a`¥^aba`Va_a___a_b
@HWI-EAS443:3:33:391:570#0/1
AGGATGAGTCCCAATAGTTCTCATTGCATGTACCATCTGC
+HWI-EAS443:3:33:391:570#0/1
aa__aaaa_```[]_`^a^`a_`a`__^^``W`YY]^`__^
@HWI-EAS443:3:33:403:403#0/1
GAAAGATGACCTTCTTAAAAATTTGCAGGCCTACCAGAAG
+HWI-EAS443:3:33:403:403#0/1
_S_a^P]U_aa` `a`aa_P^^_`^`aa^¥a_^[[PY_Y[^

@HWI-EAS443:3:33:423:316#0/1
GGGCCTCATATACAACAGGATGGGAACAGTGACCACAGAA
+HWI-EAS443:3:33:423:316#0/1
aa_a`aba_aa_aaa`]__^__a_^a¥`_U¥^S^¥WY^W¥
@HWI-EAS443:3:33:467:893#0/1
ACACACTAGACCAAAAGCAGCTTCTGTGGTCACTGTTCCC
+HWI-EAS443:3:33:467:893#0/1
¥]a]aa`_JUZ`ZaZY]]V¥`¥_[^XYUUGXZUBBBBBBB
@HWI-EAS443:3:33:695:885#0/1
CTCATATACAACAGGATGGGAACAGTGACCACAGAAGCTG
+HWI-EAS443:3:33:695:885#0/1
aa`W_a_]¥`_^QTYXX[X_]X¥LXaUQYRUTQV^^UR
@HWI-EAS443:3:33:704:1397#0/1
ATGATATTTGCTGCAATGACGAGAGGATCACTTGAATCGC
+HWI-EAS443:3:33:704:1397#0/1
a`bbaa`a`a_aaaa]`_aa`_____]]^_[_¥_]`_
@HWI-EAS443:3:33:770:625#0/1
CAGACTAGGCAGATGGTACATGCAATGAGAACTATTGGGA
+HWI-EAS443:3:33:770:625#0/1
aa]_b_YUa`M`__bbQaW_Y^P]UWU`UaaQT_]VZa¥¥
@HWI-EAS443:3:33:778:1493#0/1
CAAATATCATTGGGATCTTGCACCTGATATTGTGGATTAC
+HWI-EAS443:3:33:778:1493#0/1
[Ua^YOPb`a_aRW__aWZ¥_Z`Z^a[``a`ZL]_¥W]_^
@HWI-EAS443:3:33:794:1005#0/1
TGCAGATGCAGCGATTCAAGTGATCCTCTCGTCATTGCAG
+HWI-EAS443:3:33:794:1005#0/1
`^aaa¥`^`_a``]]NVXT`_`b`_a¥aaVKXa_¥W]Y
@HWI-EAS443:3:33:835:1148#0/1
GATCGTCTTTTTTCAAATGTATTTATCGTCGCTTTAAAT
+HWI-EAS443:3:33:835:1148#0/1
abbb_abbbbbbbbaZabbaaababaaaaa_Iaaaa_a`
@HWI-EAS443:3:33:867:480#0/1
CATTGGGATCTTGCACCTGATATTGTGGATTACTGATCGT
+HWI-EAS443:3:33:867:480#0/1
abbaaaa`aaa`bbaaba`^`^`aaa^aaaa`¥QY`_^U`X
@HWI-EAS443:3:33:878:1692#0/1
AGCTAGGATGAGTCCCAATAGTTCTCATTGCATGTACCAT
+HWI-EAS443:3:33:878:1692#0/1
a_a`b`T[_Y_SYaa`____]R__¥]_^_¥X`YVX^YY__
@HWI-EAS443:3:33:950:2011#0/1
CAGGCCTACCAGAAGCGAATGGGAGTGAGATGCAGCGAT
+HWI-EAS443:3:33:950:2011#0/1
abZabbabaaaaaaaa`a]a]_^aW____^XUMS__X]¥]
@HWI-EAS443:3:34:1096:1043#0/1
ATTTGCTGCAATGACGAGAGGATCACTTGAATCGCTGCAT
+HWI-EAS443:3:34:1096:1043#0/1
aaY^aaa¥^DX]`_^a¥X_YU^_PV`^`¥^Y][UXTNWB
@HWI-EAS443:3:34:1101:1998#0/1
GGATCACTTGAATCGCTGCATCTGCACTCCCATTCGCTTC

+HWI-EAS443:3:34:1101:1998#0/1
W__YOY___¥`¥_]`b]^b]_ab`^_[``UO[__aU`SK
@HWI-EAS443:3:34:1151:24#0/1
AGACTGGAAAGTGTCTTTGCAGGAAAGAACACAGATCTTG
+HWI-EAS443:3:34:1151:24#0/1
a`bbbb`_bb^a`aaaaaa```aaa[V^_^^^ZVPV]]
@HWI-EAS443:3:34:1202:1515#0/1
ATTCGCTTCTGGTAGGCCTGCAAATTTTCAAGAAGGTCAT
+HWI-EAS443:3:34:1202:1515#0/1
a`a¥a`bba__aabbaba_aab`bbbbba_¥aY]¥aaX
@HWI-EAS443:3:34:1311:36#0/1
TGGGAGTGCAGATGCAGCGATTCAAGTGATCCTCTCGTCA
+HWI-EAS443:3:34:1311:36#0/1
`a_baa[a`a^_a`aa_a`^_^^¥`Y___YW^T¥WWYSW
@HWI-EAS443:3:34:1375:499#0/1
AAAGACAAGACCAATCTTGTCACCTCTGACTAAGGGAATT
+HWI-EAS443:3:34:1375:499#0/1
aaaa`aaa```_a_a¥_aa_¥¥^¥`^`]^_Z^_X]W]Z]
@HWI-EAS443:3:34:1397:1872#0/1
GACCGATGCTGTGAATCAGCAATCTGTTCAAGTGGCAC
+HWI-EAS443:3:34:1397:1872#0/1
`baaa_¥X`__T_Y[SS[R][_[W_Y]]^YNSUMPUQFQN
@HWI-EAS443:3:34:1402:664#0/1
GACCACAGAAGCTGCTTTTGGTCTAGTGTGTGCCACTTGT
+HWI-EAS443:3:34:1402:664#0/1
ab_a][_`_S`___^V^`_]OY^XVXUV]X]XXXXWYBB
@HWI-EAS443:3:34:1662:920#0/1
CTTGAATCGCTGCATCTGCACTCCCATTGCTTCTGGTAG
+HWI-EAS443:3:34:1662:920#0/1
ab`abbbb`_b`a`a`b]_aaa_WTTaaaa`XWVSBBBB
@HWI-EAS443:3:34:16:577#0/1
GGAGGTTGCTAATCAGACTAGGCAGATGGTACATGCAATG
+HWI-EAS443:3:34:16:577#0/1
a`Z`a_a`a[HZ`a_aa`¥X`]^¥][¥¥XDU_VS]]^V¥]
@HWI-EAS443:3:34:1785:778#0/1
GCAGGCCTACCAGAAGCGAATGGGAGTGCAGATGCAGCGA
+HWI-EAS443:3:34:1785:778#0/1
a]aaaaaaaaaaaaa_a__aaaV]^]_[a^_VNZWUWB
@HWI-EAS443:3:34:310:1398#0/1
TAAATACATTTGAAAAAAGACGATCAGTAATCCACAATA
+HWI-EAS443:3:34:310:1398#0/1
`^`_a^bbbaa`_`a_^]aaa__^¥¥¥Q[[]OW]V[]LDW
@HWI-EAS443:3:34:326:169#0/1
GCTGCAATGACGAGAGGATCACTTGAATCGCTGCATCTGC
+HWI-EAS443:3:34:326:169#0/1
aabbba`aabba`b`baaHa```a__a_a_aU[__V¥V_B
@HWI-EAS443:3:34:363:493#0/1
CTCTCATGGAATGGCTAAAGACAAGACCAATCTTGTACC
+HWI-EAS443:3:34:363:493#0/1
abaabaabaaaaaab`aaa__`_```]YR_]Y¥^UW^ME

@HWI-EAS443:3:34:388:683#0/1
CGTATTTAAAGCGACGATAAATACATTTGAAAAAAGACG
+HWI-EAS443:3:34:388:683#0/1
a_`aaaa`aZ_b_]aaa_]a_[^_aa`__aa^`_W_^^
@HWI-EAS443:3:34:398:1735#0/1
GACCGATGCTGTGAATCAGCAATCTGTTCAACAAGTGGCAC
+HWI-EAS443:3:34:398:1735#0/1
Waba_a`_`aba]b_` `[`b_[¥ba[baaba[a]N[R__X
@HWI-EAS443:3:34:420:1257#0/1
CAATAGTTCTCATTGCATGTACCATCTGCCTAGTCTGATT
+HWI-EAS443:3:34:420:1257#0/1
`ZZHV` `a`Zba`ZO]aWHNb_]XY_] [ZTSZSW[Y[SNB
@HWI-EAS443:3:34:49:1840#0/1
GCAAAGGCTATGGAACAGATGGCTGGATCGAGTGAACAGG
+HWI-EAS443:3:34:49:1840#0/1
abbbbbabb`bababba_a]`ba`]aaa_b][X`a¥`YX
@HWI-EAS443:3:34:500:145#0/1
TGCTTTTGGTCTAGTGTGTGCCACTTGTGAACAGATTGCT
+HWI-EAS443:3:34:500:145#0/1
`ba`ababaYb]`^¥a_aa`aaa`^___`_`__`^XVWW^
@HWI-EAS443:3:34:524:555#0/1
GCACCTGATATTGTGGATTACTGATCGTCTTTTTTTCAAA
+HWI-EAS443:3:34:524:555#0/1
abaaa`]VZ`a`U`¥^^`_`_`ZPZ`X` `^_a`_X]]^
@HWI-EAS443:3:34:567:172#0/1
ATCTGTTCAACAAGTGGCACACACTAGACAAAAGCAGCTT
+HWI-EAS443:3:34:567:172#0/1
ababa`aaaaaaa]a`ab`aaa__a`a_`V`]_^]R^^
@HWI-EAS443:3:34:64:567#0/1
TGGAGTTGCTAATCAGACTAGGCAGATGGTACATGCAAT
+HWI-EAS443:3:34:64:567#0/1
aaa`Y_[`aa`XZ_^SS]VI___`YVZ^X¥PX[Y^YSKUV
@HWI-EAS443:3:34:729:1062#0/1
CTTCTTGGAAATTTGCAGGCCTACCAGAAGCGAATGGGAG
+HWI-EAS443:3:34:729:1062#0/1
ab`¥Taaa`Z`aaaaa_^[``]_`a¥`aa`a¥KDY_WRBB
@HWI-EAS443:3:34:972:917#0/1
GTGGATTACTGATCGTCTTTTTTTCAAATGTATTTATCGT
+HWI-EAS443:3:34:972:917#0/1
]O^_]TTZ[[``]_¥PR]Z]¥`_YZUSSW`TXXZ¥^XWSU
@HWI-EAS443:3:35:1056:1053#0/1
GCCTCATATACAACAGGATGGGAACAGTGACCACAGAAGC
+HWI-EAS443:3:35:1056:1053#0/1
ababa^aaaaaaaa^a^[]^` `a`^aW_V`_Q`a`]Za
@HWI-EAS443:3:35:1135:513#0/1
GGCCTACCAGAAGCGAATGGGAGTGCAGATGCAGCGATTC
+HWI-EAS443:3:35:1135:513#0/1
ababbaa`_babaab][`aaaa`¥aYa[]aaaa`a__^^
@HWI-EAS443:3:35:1197:831#0/1
CAGCAATCTGTTCAACAAGTGGCACACACTAGACAAAAGC

+HWI-EAS443:3:35:1197:831#0/1
a`a`aab`aaaaaaaa^`a`a``^Y`¥]aaa`]]_Ua
@HWI-EAS443:3:35:1233:70#0/1
ACTGGAGCTAGGATGAGTCCCAATAGTTCTCATTGCATGT
+HWI-EAS443:3:35:1233:70#0/1
]YWTWL¥XVYYUNT]XPNJOH¥Q^QUS¥V¥[ZTRBBBBBB
@HWI-EAS443:3:35:1331:892#0/1
TGAATCAGCAATCTGTTCAAGTGGCACACACTAGACCA
+HWI-EAS443:3:35:1331:892#0/1
aa_aa`a`a`^`^[_a____Y_]_]aaa_]_]_]_R¥
@HWI-EAS443:3:35:1495:804#0/1
CATTGCAGCAAATATCATTGGGATCTTGCACCTGATATTG
+HWI-EAS443:3:35:1495:804#0/1
abbbbabbbabababaaaaabb_a_aaabababb`b`bab
@HWI-EAS443:3:35:1508:837#0/1
GGCCTCATATACAACAGGATGGGAACAGTGACCACAGAAG
+HWI-EAS443:3:35:1508:837#0/1
a_]_bbaaaaaaaa`^`^`^`aZ^Z``_]_]a``Z[¥` []
@HWI-EAS443:3:35:1511:571#0/1
CAGCAATCTGTTCAAGTGGCACACACTAGACCAAAGC
+HWI-EAS443:3:35:1511:571#0/1
[Z]OXX[U[`Z`]XW[T_UXW[¥V^SYZ_]_]`^_ZV[]Ra
@HWI-EAS443:3:35:1652:1064#0/1
CAGGATGGGAACAGTGACCACAGAAGCTGCTTTTGGTCTA
+HWI-EAS443:3:35:1652:1064#0/1
aab_SS¥`VU[][_L¥`a]WOU]P[`]¥`]PU^`VJORa
@HWI-EAS443:3:35:1781:1607#0/1
CTGTGAATCAGCAATCTGTTCAAGTGGCACACACTAGA
+HWI-EAS443:3:35:1781:1607#0/1
aab_b^a`a`¥_aa`[_aa[R¥`a^YW]aaa``^`X^`M`
@HWI-EAS443:3:35:217:1202#0/1
ATCTTGCACCTGATATTGTGGATTACTGATCGTCTTTTTT
+HWI-EAS443:3:35:217:1202#0/1
aab_]_]_W^aa]Za¥a`_XaaY`[]``_]_]aYQ_]_]`^`
@HWI-EAS443:3:35:268:1052#0/1
CACTTGTGAACAGATTGCTGATTACAGCATCGGTCTCAC
+HWI-EAS443:3:35:268:1052#0/1
abbb`a_bb_a¥`aa_aba`aa`_a]`^```a`a]`_a_a
@HWI-EAS443:3:35:271:277#0/1
CGGGTCCCCATTCCCATTAGGGCATTGGACAAAGCGT
+HWI-EAS443:3:35:271:277#0/1
aaaa`abaaaa]aa`a]¥`]¥¥`^`_`T]S]^]U`¥^^W
@HWI-EAS443:3:35:321:1454#0/1
ATCCCAATGATATTTGCTGCAATGACGAGAGGATCACTTG
+HWI-EAS443:3:35:321:1454#0/1
aaaaaaaaaaaaTaaa¥`aaaZ_a_Y^`_¥_]Y_]_]_]`^`^`
@HWI-EAS443:3:35:448:274#0/1
ACAAGACCAATCTTGTACCTCTGACTAAGGGAATTTTAG
+HWI-EAS443:3:35:448:274#0/1
]aaaaabbaabaaa[a`aaaa``_a`W^^[Y]¥``^`_]

@HWI-EAS443:3:35:766:641#0/1
GCTGTGAATCAGCAATCTGTTTACAAGTGGCACACACTAG
+HWI-EAS443:3:35:766:641#0/1
_ ^X_a`_S]_^¥¥0R_¥U¥TSZR¥WOXM^_TQZ^R^[VWS
@HWI-EAS443:3:35:790:1643#0/1
CAGTGACCACAGAAGCTGCTTTTGGTCTAGTGTGTGCCAC
+HWI-EAS443:3:35:790:1643#0/1
_[Z`]¥_T^[]Saa[a`[UY]`]OMPax^T[V^XTUJ^_a
@HWI-EAS443:3:35:881:1310#0/1
TGTGAATCAGCAATCTGTTTACAAGTGGCACACACTAGAC
+HWI-EAS443:3:35:881:1310#0/1
a`[baaaba_aa`R`_aS]`__`]YO_Vaaa``a^^[U[_
@HWI-EAS443:3:35:885:1426#0/1
CAGCAATCTGTTTACAAGTGGCACACACTAGACAAAAGC
+HWI-EAS443:3:35:885:1426#0/1
a_`baab[a`aaa^aab[W¥[ababaZZIY`b`bbab]X_
@HWI-EAS443:3:35:915:275#0/1
GGGCCTCATATACAACAGGATGGGAACAGTGACCACAGAA
+HWI-EAS443:3:35:915:275#0/1
aSL]XX`_`aY`_`_AY`_WG¥M¥¥^VZNGS[WZVVTURU
@HWI-EAS443:3:36:101:1280#0/1
CAGCGATTCAAGTGATCCTCTCGTCATTGCAGCAAATATC
+HWI-EAS443:3:36:101:1280#0/1
a`U`a_TYa`^RY¥``aa_a``WUa`^]¥^TS[_ZROWY`
@HWI-EAS443:3:36:1041:143#0/1
ATGGGCCTCATATACAACAGGATGGGAACAGTGACCACAG
+HWI-EAS443:3:36:1041:143#0/1
aab^ab`V_]_aYaabbaZ¥]^`aa]Y_U`¥U_¥`[Z[WZ
@HWI-EAS443:3:36:1072:812#0/1
CGTATTTAAAGCGACGATAAATACATTTGAAAAAAGACG
+HWI-EAS443:3:36:1072:812#0/1
aba^bbabbbaaab_aaaa`a`a``aa`aa`a¥`a_]^^
@HWI-EAS443:3:36:1249:795#0/1
ATGGGAGTGAGATGCAGCGATTCAAGTGATCCTCTCGTC
+HWI-EAS443:3:36:1249:795#0/1
^`^SS_^J]bbb`aWYb`_¥]SWa`_RX`[]NQ¥aX[]N¥
@HWI-EAS443:3:36:1329:1171#0/1
GTCCTAAGCTATTCAACTGGTGCACCTGCCAGTTGCATG
+HWI-EAS443:3:36:1329:1171#0/1
]U```¥___^]]^_ZW]_¥ZY]_]_^Zaa_Z¥N]¥a¥V^
@HWI-EAS443:3:36:1422:753#0/1
GTGAATCAGCAATCTGTTTACAAGTGGCACACACTAGACC
+HWI-EAS443:3:36:1422:753#0/1
ZOY¥_Z`^`^`_a^a`^_[ZX_]_Y_[N[[RSZW_^a^R]
@HWI-EAS443:3:36:1531:1112#0/1
CAGGCCTACCAGAAGCGAATGGGAGTGAGATGCAGCGAT
+HWI-EAS443:3:36:1531:1112#0/1
MJ`]bbbbbbbababb_Xa``baaa¥bQ`[]`aX_babX^
@HWI-EAS443:3:36:1546:126#0/1
ACAGTGACCACAGAAGCTGCTTTTGGTCTAGTGTGTGCCA

+HWI-EAS443:3:36:1546:126#0/1
a_bb^bbaa_`_^aa`aaY_``_]X]^_YYY_X¥^BB
@HWI-EAS443:3:36:1592:1367#0/1
TGTGAGACCGATGCTGTGAATCAGCAATCTGTTCAAGT
+HWI-EAS443:3:36:1592:1367#0/1
U]b]babVba`aaaaabaaa[aaa`ZX_]¥`__aW]YH
@HWI-EAS443:3:36:1648:1910#0/1
TGCCAGTTGCATGGGCCTCATATACAACAGGATGGGAACA
+HWI-EAS443:3:36:1648:1910#0/1
aaabab_bbaaa`a[a`^U^b_aaab[TMYZPZ_WV¥[H^
@HWI-EAS443:3:36:1665:92#0/1
CAAATCCTAAAATTCCTTAGTCAGAGGTGACAAGATTGG
+HWI-EAS443:3:36:1665:92#0/1
a`b]bbabb`aaaa[`aaa¥aX[^a^a_X`]TX^^VX^RZ
@HWI-EAS443:3:36:1737:110#0/1
GACCGATGCTGTGAATCAGCAATCTGTTCAAGTGGCAC
+HWI-EAS443:3:36:1737:110#0/1
a^a`¥US_[¥^[V^¥_[Q_QOSYOV[WXXV[NQLSXXVQ[
@HWI-EAS443:3:36:220:398#0/1
TCTGTGAGACCGATGCTGTGAATCAGCAATCTGTTCAAA
+HWI-EAS443:3:36:220:398#0/1
ababa_U_bbbaa^`^aa_aa]`aaaa`¥Wa``^__V`_H
@HWI-EAS443:3:36:254:1249#0/1
CAAAAGAGAAATAACGTTCCATGGGGCCAAGGAGGTGTCA
+HWI-EAS443:3:36:254:1249#0/1
a_¥¥U¥^`Z`^`_`^^`]Z_`Z¥¥_TWUT[RYYJ¥Z``
@HWI-EAS443:3:36:308:1370#0/1
GCGCAGAGACTGGAAAGTGTCTTGCAGGAAAGAACACAG
+HWI-EAS443:3:36:308:1370#0/1
¥a]a_aba`^a¥GVaba¥`Za`X^a]]^`^]a^[J]^Y
@HWI-EAS443:3:36:399:1831#0/1
GAAAGATGACCTTCTTAAAAATTTGCAGGCCTACCAGAAG
+HWI-EAS443:3:36:399:1831#0/1
U[_aab]``bb]bbbab¥[_bbbb`bb[]aba[abb`aa`
@HWI-EAS443:3:36:409:1913#0/1
AGGATGAGTCCCAATAGTTCTCATTGCATGTACCATCTGC
+HWI-EAS443:3:36:409:1913#0/1
aaab¥aa`]a`aa`aZ^GWaa`_¥`_a`_Ya]TW`a[¥a
@HWI-EAS443:3:36:415:1499#0/1
CTCATATACAACAGGATGGGAACAGTGACCACAGAAGCTG
+HWI-EAS443:3:36:415:1499#0/1
a_`KX`¥Q`¥]^ [ORZW^US__ZSRGP¥^`UUWWR_Y^WX
@HWI-EAS443:3:36:472:1227#0/1
GTTCCGGTCCCCATTCCCATTTAGGGCATTGTTGGACAAAG
+HWI-EAS443:3:36:472:1227#0/1
a_ab]a¥^bbb`a`aaaa_`¥`Xa`b`^`¥a`¥^_I^aZ
@HWI-EAS443:3:36:512:967#0/1
ATGGGCCTCATATACAACAGGATGGGAACAGTGACCACAG
+HWI-EAS443:3:36:512:967#0/1
aaR¥_baaa`_a__a`^`a__a^^`__¥`a__W¥_¥_]a]

@HWI-EAS443:3:36:587:189#0/1
CAGGATGGGAACAGTGACCACAGAAGCTGCTTTTGGTCTA
+HWI-EAS443:3:36:587:189#0/1
a]aa`aba_a`ab_`baaaaaa`_a```_^`^`W^^¥
@HWI-EAS443:3:36:751:846#0/1
TAAAGACAAGACCAATCTTGTCACCTCTGACTAAGGGAAT
+HWI-EAS443:3:36:751:846#0/1
aba^a¥b_Z¥baaaaaaaaaXaaaU_```a___`_a`^a`U
@HWI-EAS443:3:36:822:1269#0/1
CTGGAGCTAGGATGAGTCCCAATAGTTCTCATTGCATGTA
+HWI-EAS443:3:36:822:1269#0/1
a^a¥¥¥a[`WaQUW[a_ba¥]_`¥aX]`V^WU]X^___XU
@HWI-EAS443:3:36:831:624#0/1
CAGCAATCTGTTCCACAAGTGGCACACACTAGACCAAAGC
+HWI-EAS443:3:36:831:624#0/1
a`_`___`^Y`¥aa`_a¥R[``]W_a¥ST_aa_Q][_Za[_
@HWI-EAS443:3:36:893:1086#0/1
ACGTTCCATGGGGCCAAGGAGGTGTCACCTAAGCTATTCAA
+HWI-EAS443:3:36:893:1086#0/1
]_W^¥R_b___SO^aYa`X]R¥ZN_^`GYXHP_]a`W`PI
@HWI-EAS443:3:36:922:1321#0/1
ACTGATCGTCTTTTTTTCAAATGTATTTATCGTCGCTTTA
+HWI-EAS443:3:36:922:1321#0/1
aa```^b¥X__aaa`^Y^__```^a¥a[a^¥00ZXQ[^]X
@HWI-EAS443:3:36:943:1112#0/1
ATCGTCTTTTTTTCAAATGTATTTATCGTCGCTTTAAATA
+HWI-EAS443:3:36:943:1112#0/1
^^aa¥ba_aY0__YY^`ZaY[`a_a_aY00WZX¥NN[TW
@HWI-EAS443:3:37:1045:1160#0/1
GACCGATGCTGTGAATCAGCAATCTGTTCCACAAGTGGCAC
+HWI-EAS443:3:37:1045:1160#0/1
a_PIZ^¥aa_aY__^aSU¥R]a_`U]SR^WaUPQP^^`___
@HWI-EAS443:3:37:1082:1520#0/1
GCTGGCTAGCACTACGGCAAAGGCTATGGAACAGATGGCT
+HWI-EAS443:3:37:1082:1520#0/1
a^`___baaa_aR¥`P`VKX]_^SY^_VFWIVMY¥MQ^UU
@HWI-EAS443:3:37:1165:1763#0/1
CTTGAATCGCTGCATCTGCACTCCCATTGCTTCTGGTAG
+HWI-EAS443:3:37:1165:1763#0/1
[`aabbbbbaaaa`babab^bbbbbbb]bbYbabbbbaYab[
@HWI-EAS443:3:37:1168:552#0/1
ATTTGCTGCAATGACGAGAGGATCACTTGAATCGCTGCAT
+HWI-EAS443:3:37:1168:552#0/1
¥__abYYaab_Wa^U_R]a`]]HRV```^`Ha`_Y]X¥_`R
@HWI-EAS443:3:37:1253:42#0/1
ATCCCAATGATATTTGCTGCAATGACGAGAGGATCACTTG
+HWI-EAS443:3:37:1253:42#0/1
ab`_]_^Y`bb_b^aaa]]`^`aaaabbWXGaa`Ya]_[___
@HWI-EAS443:3:37:1259:825#0/1
AAGTGGCACACACTAGACCAAAGCAGCTTCTGTGGTCCAC

+HWI-EAS443:3:37:1259:825#0/1
Ua_IW_bab`S``aab^aab[_]bb^^aGbZ^Z]]Raa¥
@HWI-EAS443:3:37:1574:1432#0/1
GACCACAGAAGCTGCTTTTGGTCTAGTGTGTGCCACTTGT
+HWI-EAS443:3:37:1574:1432#0/1
[ab`bbb`a`a[^aUba]`Y[_aa_]RX^V¥_baa^`a` [
@HWI-EAS443:3:37:161:252#0/1
ATCTTGTCACCTCTGACTAAGGGAATTTTAGGATTTGTGT
+HWI-EAS443:3:37:161:252#0/1
`[ba¥¥_]ba]b]b_X^a_ZUZJZUVZUXN^bVP]Q¥R_N
@HWI-EAS443:3:37:1700:225#0/1
GCGACGATAAATACATTTGAAAAAAGACGATCAGTAATC
+HWI-EAS443:3:37:1700:225#0/1
aaa^b`_^`^¥`aaa¥X`_____]a]ZHSYXX]Y`^^R
@HWI-EAS443:3:37:1706:308#0/1
TGTGGATTACTGATCGTCTTTTTTTCAAATGTATTTATCG
+HWI-EAS443:3:37:1706:308#0/1
ab``^bbb`aa]a¥bY]aaabbaba`_]K]Vbab`^_W^
@HWI-EAS443:3:37:295:1723#0/1
CAAATATCATTGGGATCTTGCACCTGATATTGTGGATTAC
+HWI-EAS443:3:37:295:1723#0/1
a`^_V[^`^¥¥YW[]_aaa__a__]]VXXFU[XaW__¥_Y
@HWI-EAS443:3:37:349:304#0/1
GACCGATGCTGTGAATCAGCAATCTGTTCAACAAGTGGCAC
+HWI-EAS443:3:37:349:304#0/1
a`b__^_]aa_R_aaaaaaSX]¥`a___¥aaQ¥R__aa_
@HWI-EAS443:3:37:374:1130#0/1
GACTAGGCAGATGGTACATGCAATGAGAACTATTGGGACT
+HWI-EAS443:3:37:374:1130#0/1
abbb]ababb]a`]W¥`b``baaba`a^aHaa`^`_YZ_a
@HWI-EAS443:3:37:457:1989#0/1
GACCGATGCTGTGAATCAGCAATCTGTTCAACAAGTGGCAC
+HWI-EAS443:3:37:457:1989#0/1
`baba]`^b``aabbbbY¥Paa_TTRJ_b[bb]_Qa^aaQ
@HWI-EAS443:3:37:53:669#0/1
TTGTGAACAGATTGCTGATTCACAGCATCGGTCTCACAGA
+HWI-EAS443:3:37:53:669#0/1
abb`_`¥``a^abaa`b^^a`W`_`^^a`XT]RXO_WT[
@HWI-EAS443:3:37:581:1216#0/1
GACCCGAACAACATGGATAGAGCAGTTAAACTATACAAGA
+HWI-EAS443:3:37:581:1216#0/1
a_aabbV`baY``b`aa_a`aba^Za`RRbZY^a]ZYW^
@HWI-EAS443:3:37:585:1875#0/1
GTGATCCTCTCGTCATTGCAGCAAATATCATTGGGATCTT
+HWI-EAS443:3:37:585:1875#0/1
¥`^ababbbb¥Y`bbbabbabb`bbabX`baaa^`aaa
@HWI-EAS443:3:37:654:1131#0/1
CATGCAATGAGAACTATTGGGACTCATCCTAGCTCCAGTG
+HWI-EAS443:3:37:654:1131#0/1
`[U__`_YV]_`]^__^_ZY`^^Y[__SHVaX]R_]Y]

@HWI-EAS443:3:37:865:478#0/1
CGTCATTGCAGCAAATATCATTGGGATCTTGACCTGATA
+HWI-EAS443:3:37:865:478#0/1
abaabbbaabbababbaaaaaa`aaaaa_`aaaaaaa_a_
@HWI-EAS443:3:37:86:1194#0/1
CAGTAATCCACAATATCAGGTGCAAGATCCCAATGATATT
+HWI-EAS443:3:37:86:1194#0/1
a`_N[a`a_Z¥¥a[a`abZMW^a¥Z]`[_[_]I[aaaY`]
@HWI-EAS443:3:37:910:880#0/1
GAAAGATGACCTTCTTGAAAATTTGCAGGCCTACCAGAAG
+HWI-EAS443:3:37:910:880#0/1
a__``aaaaaaaabaa[]_aaaaaaaaa_Vaaaaa``V]`
@HWI-EAS443:3:37:923:822#0/1
CAAGATTGGTCTTGTCTTTAGCCATTCCATGAGAGCCTCA
+HWI-EAS443:3:37:923:822#0/1
W¥`^`aaa[Z_OY]ab`_U`_bb]U¥a_JURaUQ_aY`¥S
@HWI-EAS443:3:38:1076:1271#0/1
TGCAGATGCAGCGATTCAAGTGATCCTCTCGTCATTGCAG
+HWI-EAS443:3:38:1076:1271#0/1
abaa]`abab`aa^aaa_]b^aa`_``UaSQ]Za^_a[_Z
@HWI-EAS443:3:38:1099:425#0/1
CCGATGCTGTGAATCAGCAATCTGTTCAAGTGGCACAC
+HWI-EAS443:3:38:1099:425#0/1
aa]Z__¥^b`U][[_[Y_]a_T¥^]__VZYUUP[MJ^¥_G
@HWI-EAS443:3:38:1140:1150#0/1
GCTAATCAGACTAGGCAGATGGTACATGCAATGAGAACTA
+HWI-EAS443:3:38:1140:1150#0/1
aaa`_`_`^`^_YV]_Z]¥¥[¥TZ[V[_`SRWWW[V¥TVW
@HWI-EAS443:3:38:1158:625#0/1
TGCAATGAGAACTATTGGGACTCATCCTAGCTCCAGTGCT
+HWI-EAS443:3:38:1158:625#0/1
`__¥Ua^PaR_`Z`aUbaPWRa¥^a]aaXNRXV][`Z`Z[
@HWI-EAS443:3:38:1170:989#0/1
GGGCCTCATATACAACAGGATGGGAACAGTGACCACAGAA
+HWI-EAS443:3:38:1170:989#0/1
abbbbaabbabb`aabbabb`aabb_aaab¥[a__a`a`a^
@HWI-EAS443:3:38:1359:1781#0/1
GGGCCTCATATACAACAGGATGGGAACAGTGACCACAGAA
+HWI-EAS443:3:38:1359:1781#0/1
aa]R¥``]a]V¥a__a]^aaZWaaa][UQ_TZVT[MUW
@HWI-EAS443:3:38:1434:71#0/1
TGGAACGTTATTTCTCTTTGAGCTTCTTGTATAGTTTAA
+HWI-EAS443:3:38:1434:71#0/1
``a^babaaaaaa[aaaaaaa^a`a`aaa_Z[_]YZaa]Y
@HWI-EAS443:3:38:1511:1414#0/1
GCCTCATATACAACAGGATGGGAACAGTGACCACAGAAGC
+HWI-EAS443:3:38:1511:1414#0/1
aaa]a`aa^LT¥____]¥[Y____]_V_aG_SWXX¥PV]WSG
@HWI-EAS443:3:38:1596:230#0/1
CAAGATTGGTCTTGTCTTTAGCCATTCCATGAGAGCCTCA

+HWI-EAS443:3:38:1596:230#0/1
abbbab`baaaaabaaabaaaa`a_a_aZ^]_^`^Z]]Z
@HWI-EAS443:3:38:161:1428#0/1
CATTGCTTCTGGTAGGCCTGCAAATTTTCAAGAAGGTCA
+HWI-EAS443:3:38:161:1428#0/1
aabaaZ_b_ba]Z__`¥aaaaYYa`aa^___X```^V`V
@HWI-EAS443:3:38:1726:918#0/1
GTGACCACAGAAGCTGCTTTTGGTCTAGTGTGCCACTT
+HWI-EAS443:3:38:1726:918#0/1
a_aa_^a_aaa_X]^_W__^`U`XX][]LMIUUNU^GLM
@HWI-EAS443:3:38:1738:344#0/1
GACCGATGCTGTGAATCAGCAATCTGTTCAAGTGGCAC
+HWI-EAS443:3:38:1738:344#0/1
^babaabaaab¥a`aaaba_aaa`aaa`a¥W¥_¥V__Z`Q
@HWI-EAS443:3:38:203:625#0/1
GAGTGCAGATGCAGCGATTCAAGTGATCCTCTCGTCATTG
+HWI-EAS443:3:38:203:625#0/1
a^WZa`S_^`__`][Y``]U_]V[^^^^_`YZ`^XT
@HWI-EAS443:3:38:225:1597#0/1
GACAAGACCAATCTTGTACCTCTGACTAAGGGAATTTTA
+HWI-EAS443:3:38:225:1597#0/1
`^bb`_^`b`¥a^aa`aaabaaaaab_aa^aa_aaa__a
@HWI-EAS443:3:38:322:600#0/1
CACTGTTCCCATCCTGTTGTATATGAGGCCCATGCAACTG
+HWI-EAS443:3:38:322:600#0/1
aKTZ]UWaxUSQSPVWXS_TU_^VRU]LLRV^RZLRXNTQ
@HWI-EAS443:3:38:403:1883#0/1
GGAGTGCAGATGCAGCGATTCAAGTGATCCTCTCGTCATT
+HWI-EAS443:3:38:403:1883#0/1
`baa`abb`aa_aaabbbaaaa_XZR`_aZ__`a^¥a^bY
@HWI-EAS443:3:38:52:280#0/1
TGCAGATGCAGCGATTCAAGTGATCCTCTCGTCATTGCAG
+HWI-EAS443:3:38:52:280#0/1
ab`__Z]baa^_ZW^]UW]aZW__a]__Z[OUZ[^[YWTX
@HWI-EAS443:3:38:696:235#0/1
GATCGTCTTTTTTTCAAATGTATTTATCGTCGCTTTAAAT
+HWI-EAS443:3:38:696:235#0/1
`][`a_Z`baab_a`^_T_aaV]^a`a_W][XV[^_`^`^`
@HWI-EAS443:3:38:72:1198#0/1
CTCATATACAACAGGATGGGAACAGTGACCACAGAAGCTG
+HWI-EAS443:3:38:72:1198#0/1
aabb`a`bb`_W^]aaa__aa_aXaaa__^````____]
@HWI-EAS443:3:38:778:1987#0/1
GAGAAATAACGTTCCATGGGGCCAAGGAGGTGCTACTAAG
+HWI-EAS443:3:38:778:1987#0/1
a_aaW[aaa_Z¥_Na__[YRR]```____YUTQWW¥T¥Y`W
@HWI-EAS443:3:38:83:1143#0/1
GAGAAATAACGTTCCATGGGGCCAAGGAGGTGCTACTAAG
+HWI-EAS443:3:38:83:1143#0/1
a)`YY]a`_a__YY`¥^]XU[_a_¥^^[XWP[¥¥aX^U[U

@HWI-EAS443:3:38:961:811#0/1
GTCTGTGAGACCGATGCTGTGAATCAGCAATCTGTTCCACA
+HWI-EAS443:3:38:961:811#0/1
aaa`__b_bbaaaaaa`b_aaaa^aaZZ^WV^`_]_Y_¥^
@HWI-EAS443:3:38:970:228#0/1
TCAAGATCTGTGTTCTTTCTGCAAAGACACTTTCCAGTC
+HWI-EAS443:3:38:970:228#0/1
Z`a`]`Q]^bbUbSX_^b[aaabab[aa_aZT_¥^[V_^YU
@HWI-EAS443:3:39:1004:1051#0/1
GAGAAATAACGTTCCATGGGGCCAAGGAGGTGTCACCTAAG
+HWI-EAS443:3:39:1004:1051#0/1
ZXZYU]XX¥`WNPn`XN^UZYN[RT[RNXQLQSUZNNNTZS
@HWI-EAS443:3:39:1028:1622#0/1
GAGGATCACTTGAATCGCTGCATCTGCACTCCCATTGCT
+HWI-EAS443:3:39:1028:1622#0/1
aaaba]aabbb_bbaa]¥[`Xa]Y`^`^aa__VX`]^^`U^
@HWI-EAS443:3:39:1222:263#0/1
TGTGAATCAGCAATCTGTTCCACAAGTGGCACACACTAGAC
+HWI-EAS443:3:39:1222:263#0/1
ab_aaaaaa_aaa`aa`]`_`_`_`Y^`_`YV^^_`_`^V
@HWI-EAS443:3:39:1321:513#0/1
TTTTTTTTCAAATGTATTTATCGTCGCTTTAAATACGGTTT
+HWI-EAS443:3:39:1321:513#0/1
abbbbaab^_ba]bbabab^_[`baaaa^_Wa]a^^^a_
@HWI-EAS443:3:39:1331:566#0/1
TGACCACAGAAGCTGCTTTTGGTCTAGTGTGTGCCACTTG
+HWI-EAS443:3:39:1331:566#0/1
aaba`aaaaaa_`aa`a`a[_V]aa]X_]X[]a^_]_R
@HWI-EAS443:3:39:1452:1359#0/1
TACTGATCGTCTTTTTTTCAAATGTATTTATCGTCGCTTT
+HWI-EAS443:3:39:1452:1359#0/1
Z¥_Z¥¥b_WU``]a¥^bba]^a¥`RYaa`a^Q]^aV¥]^]
@HWI-EAS443:3:39:1564:869#0/1
GAAAGATGACCTTCTTGAATAATTTGCAGGCCTACCAGAAG
+HWI-EAS443:3:39:1564:869#0/1
XV]ROZ_]ba^Z^¥X`KwY^X¥ZXaaPZY]]Y¥``V]V]^
@HWI-EAS443:3:39:1676:1129#0/1
CGATGCTGTGAATCAGCAATCTGTTCCACAAGTGGCACACA
+HWI-EAS443:3:39:1676:1129#0/1
ab`baab`ab`ba¥aaaa`^aa^`a__a_ZQXZa`ZZXT
@HWI-EAS443:3:39:1685:2000#0/1
CAAGATCTGTGTTCTTTCTGCAAAGACACTTTCCAGTCT
+HWI-EAS443:3:39:1685:2000#0/1
a]¥G¥`Vb``bU`U_b_Za`]_^b^`[_aNFFGaUZVNV
@HWI-EAS443:3:39:1746:529#0/1
GGCCTCATATACAACAGGATGGGAACAGTGACCACAGAAG
+HWI-EAS443:3:39:1746:529#0/1
abaabbaabbaaa_aba`]`_ba]]a_a^a`UVV__a_VU
@HWI-EAS443:3:39:363:1123#0/1
CGCGCAGAGACTGGAAAGTGTCTTTGCAGGAAAGAACA

+HWI-EAS443:3:39:363:1123#0/1
aabbab`_`baaaa^a`Ua¥a`a`^^^X`¥]a`_^`a]_
@HWI-EAS443:3:39:407:190#0/1
AAAGCGACGATAAATACATTTGAAAAAAGACGATCAGTA
+HWI-EAS443:3:39:407:190#0/1
abbab^baaa`_]`a_R]a`_]`[Y[`]¥¥U]^Y^[XX^
@HWI-EAS443:3:39:437:1885#0/1
CTGATCGTCTTTTTTCAAATGTATTTATCGTCGCTTTAA
+HWI-EAS443:3:39:437:1885#0/1
aYGS]a^_a]`[¥aa`a]__Y_W`_^]____]W]Q`^]Y]U
@HWI-EAS443:3:39:444:367#0/1
GACCGATGCTGTGAATCAGCAATCTGTTACAAGTGGCAC
+HWI-EAS443:3:39:444:367#0/1
`bba_^`a`_¥_aa¥__^aaUS]a```_a]`````Wa_^W
@HWI-EAS443:3:39:553:135#0/1
CACAAGTGGCACACACTAGACCAAAGCAGCTTCTGTGGT
+HWI-EAS443:3:39:553:135#0/1
abbZbbab¥bbbaaababaa_a]T_X^baaZZ¥_`[[^VG
@HWI-EAS443:3:39:568:1557#0/1
GTGCCACTTGTGAACAGATTGCTGATTCACAGCATCGGTC
+HWI-EAS443:3:39:568:1557#0/1
aYabbabaaa`aababaaaa`aaaa`aaa_^aaa][SU
@HWI-EAS443:3:39:588:1106#0/1
AAAATGCCCTAAATGGGAATGGGACCCGAACAACATGGA
+HWI-EAS443:3:39:588:1106#0/1
a`^[]]aaaa`¥¥_`[H[___]X][a]`¥^_R^^^_WNU
@HWI-EAS443:3:39:707:1816#0/1
ACCTGATATTGTGGATTACTGATCGTCTTTTTTTCAAATG
+HWI-EAS443:3:39:707:1816#0/1
aaa_]HSY`aa_aZ`]a_X`T`_]`__`]^^Z][_]YBBB
@HWI-EAS443:3:39:881:1757#0/1
GCCTCATATACAACAGGATGGGAACAGTGACCACAGAAGC
+HWI-EAS443:3:39:881:1757#0/1
a``]W`__¥aaa``_a`V]__[_`_ZSu^WXGVVLWZM
@HWI-EAS443:3:39:910:784#0/1
ATCAGCAATCTGTTACAAGTGGCACACACTAGACCAAAA
+HWI-EAS443:3:39:910:784#0/1
aaa]Z`U[``_]a`a^`¥_Y]RVa`^`^^^Y^_W^`_^
@HWI-EAS443:3:39:982:1534#0/1
TGACCACAGAAGCTGCTTTTGGTCTAGTGTGTGCCACTTG
+HWI-EAS443:3:39:982:1534#0/1
[bb`b`b`bbbab[baa]_a_a`VP¥aW[R`Z]ab`a_]U
@HWI-EAS443:3:3:1060:1062#0/1
GCTTCTGGTAGGCCTGCAAATTTTCAAGAAGGTCATCTTT
+HWI-EAS443:3:3:1060:1062#0/1
a_a_a¥aaX`_a^¥aa_a^_aaa`_`^_^]`^U[`^X]^_
@HWI-EAS443:3:3:1079:114#0/1
GGCCATGGAGGTTGCTAATCAGACTAGGCAGATGGTACAT
+HWI-EAS443:3:3:1079:114#0/1
aaa`aaaa`aa¥``^a¥aa¥¥a_W_¥_`XV_¥[]_NWS¥W

@HWI-EAS443:3:3:1146:1753#0/1
CATGGCCTCATATACAACAGGATGGGAACAGTGACCACA
+HWI-EAS443:3:3:1146:1753#0/1
ab`bbb¥^babbabbaababa`aaaaaabQaa]ba¥Y^U`
@HWI-EAS443:3:3:1158:644#0/1
ATGGGCCTCATATACAACAGGATGGGAACAGTGACCACAG
+HWI-EAS443:3:3:1158:644#0/1
aabab_`baabaaa`aaaaaaa`aaa_`]`aX_a`X_]a^
@HWI-EAS443:3:3:122:457#0/1
CAAGATCTGTGTTCTTTCCTGCAAAGACACTTCCAGTCT
+HWI-EAS443:3:3:122:457#0/1
_]_b_¥]abab`b¥`ba``]b]_a]_b_a`a`aT_aa_Xb
@HWI-EAS443:3:3:1291:472#0/1
CTCATATACAACAGGATGGGAACAGTGACCACAGAAGCTG
+HWI-EAS443:3:3:1291:472#0/1
¥__V¥bbbbabba_`bb`_b¥ba``baaa_aba_¥_ba
@HWI-EAS443:3:3:1337:1314#0/1
AAGAGAAATAACGTTCCATGGGGCCAAGGAGGTGCTACTA
+HWI-EAS443:3:3:1337:1314#0/1
YOYO_`T]Z¥a^VOURRU^^`ba[`_W`^OXOFXNUaS[`
@HWI-EAS443:3:3:1444:512#0/1
ACTTGAATCGCTGCATCTGCACTCCCATTTCGTTCTGGTA
+HWI-EAS443:3:3:1444:512#0/1
`a`bb_bXaba_KY]]`Ta_aZa]S_aabZaW¥a_a__BB
@HWI-EAS443:3:3:1446:1377#0/1
ATCCCAATGATATTTGCTGCAATGACGAGAGGATCACTTG
+HWI-EAS443:3:3:1446:1377#0/1
aa]]V_bab]aYaa``Wa¥SU`_a^GX_`]^`¥^W¥IY[_
@HWI-EAS443:3:3:1461:101#0/1
GGGCCTCATATACAACAGGATGGGAACAGTGACCACAGAA
+HWI-EAS443:3:3:1461:101#0/1
[aa¥Ya^Za_a_]_^T¥a`Y]a[aW^¥VYW_^UQYS¥¥SW
@HWI-EAS443:3:3:1467:180#0/1
GCACCTGATATTGTGGATTACTGATCGTCTTTTTTTTCAA
+HWI-EAS443:3:3:1467:180#0/1
a``VaXa]aa_^]]aa_a_`U`Y[_¥``V]a_aa]aSIZ^
@HWI-EAS443:3:3:1483:1648#0/1
CAATGACGAGAGGATCACTTGAATCGCTGCATCTGCACTC
+HWI-EAS443:3:3:1483:1648#0/1
abb`bb`ba`b_bYaVa^b_a`ba^b__[HS_]aZRQ`X
@HWI-EAS443:3:3:1592:566#0/1
GGATTACTGATCGTCTTTTTTTTCAAATGTATTTATCGTCG
+HWI-EAS443:3:3:1592:566#0/1
`aaYa_bY_^TIZ^``Rbb`^]S_¥aa]UUT^[`_LZQL[
@HWI-EAS443:3:3:223:1591#0/1
AGAGCCTCAAGATCTGTGTTCTTTCCTGCAAAGACACTTT
+HWI-EAS443:3:3:223:1591#0/1
aaaaa`_a_aa_¥`NUXa^aaaU^P^^Ua_`^YK[_aBB
@HWI-EAS443:3:3:226:130#0/1
CAGCAATCTGTTTACAAGTGGCACACACTAGACCAAAAAGC

+HWI-EAS443:3:3:226:130#0/1
abaab`b`abaa`aaaaU_aab__a`__a_a]_aa_a]B
@HWI-EAS443:3:3:270:755#0/1
GACGATCAGTAATCCACAATATCAGGTGCAAGATCCCAAT
+HWI-EAS443:3:3:270:755#0/1
abbba_bba¥abbb`b^_bbbaabba¥babbbbaa_[a_aa
@HWI-EAS443:3:3:304:391#0/1
TTTCAAACCGTATTTAAAGCGACGATAAATACATTTGAAA
+HWI-EAS443:3:3:304:391#0/1
abbbaaa^ab_aaaaa_a`aa`a__a_Y^aa___`a`__
@HWI-EAS443:3:3:464:982#0/1
GTGATCCTCTCGTCATTGCAGCAAATATCATTGGGATCTT
+HWI-EAS443:3:3:464:982#0/1
a_aaY``abaaa^^_a`a`_`_`a^`_`_]`_Z]Z_]_Z`]
@HWI-EAS443:3:3:520:1587#0/1
CACTAGACCAAAGCAGCTTCTGTGGTCACTGTTCCCATC
+HWI-EAS443:3:3:520:1587#0/1
`bbbbbbbababaabaabaa_aa_`^_]`a^aa_UH[P]¥P
@HWI-EAS443:3:3:659:790#0/1
AGAAGCTGCTTTTGGTCTAGTGTGTGCCACTTGTGAACAG
+HWI-EAS443:3:3:659:790#0/1
Zb^^^ababba¥ZaP]]`a^a^aZa]L^_``aX__`P``
@HWI-EAS443:3:3:682:339#0/1
ATCTGTTCACAAGTGGCACACACTAGACCAAAGCAGCTT
+HWI-EAS443:3:3:682:339#0/1
aaaab[b_aaba`_aa`b]a_a]]_aaY_a`a_aYa`V`]
@HWI-EAS443:3:3:769:214#0/1
CACAGAAGCTGCTTTTGGTCTAGTGTGTGCCACTTGTGAA
+HWI-EAS443:3:3:769:214#0/1
^^^`ba_Vaaa¥aaa`[SJZZ_ZQYLRV^JYXNVX¥R]]Z
@HWI-EAS443:3:3:821:1827#0/1
CAGGCCTACCAGAAGCGAATGGGAGTGCAGATGCAGCGAT
+HWI-EAS443:3:3:821:1827#0/1
ab]`]aaZaSbaRQ¥aba^abaaU`^^Xaaa`aPV^E[aB
@HWI-EAS443:3:3:848:552#0/1
TGGGAGTGCAGATGCAGCGATTCAAGTGATCCTCTCGTCA
+HWI-EAS443:3:3:848:552#0/1
^^_aaa¥aaab`a__aa`^_^`_QX`VONSX^]_ZVB
@HWI-EAS443:3:40:1034:104#0/1
AAAGGCTATGGAACAGATGGCTGGATCGAGTGAACAGGCA
+HWI-EAS443:3:40:1034:104#0/1
a_abbbbaabaa`_]b^`_X`a`_Z_YHZU`UMRPV`_Y
@HWI-EAS443:3:40:1082:391#0/1
CAGTGACCACAGAAGCTGCTTTTGGTCTAGTGTGTGCCAC
+HWI-EAS443:3:40:1082:391#0/1
abbabbbbabbbbbbbaabaabaa`b`a_K[^a_a^`XYY
@HWI-EAS443:3:40:1102:548#0/1
CAAGTGGCACACACTAGACCAAAGCAGCTTCTGTGGTCA
+HWI-EAS443:3:40:1102:548#0/1
abababbbbba`bbbbbaabbaa]aa`aa`_¥Y`U]_

@HWI-EAS443:3:40:114:655#0/1
CTTTTTTCAAATGATTTATCGTCGCTTTAAATACGGTT
+HWI-EAS443:3:40:114:655#0/1
abbbbbbbbbbb^bbab^abbaaa_a¥aa_`^^a`a¥a
@HWI-EAS443:3:40:1183:55#0/1
ACAAGATTGGTCTTGTCTTTAGCCATTCCATGAGAGCCTC
+HWI-EAS443:3:40:1183:55#0/1
aabaaaaaaa^_aab`aa`aa``_Za^__`_____]^U
@HWI-EAS443:3:40:1205:726#0/1
GAATCAGCAATCTGTTCAAGTGGCACACACTAGACCAA
+HWI-EAS443:3:40:1205:726#0/1
a^Y¥^YP¥VL^]Z^YR[GWQS]Y]BBBBBBBBBBBBBBB
@HWI-EAS443:3:40:1210:1763#0/1
TGGGCCTCATATACAACAGGATGGGAACAGTGACCACAGA
+HWI-EAS443:3:40:1210:1763#0/1
aa¥_bb`^aaaaa`aaa`X^aa`XU]^]Taaaaa`aa
@HWI-EAS443:3:40:1246:1051#0/1
AGTGACCACAGAAGCTGCTTTTGGTCTAGTGTGCCACT
+HWI-EAS443:3:40:1246:1051#0/1
ab`bbbaaa`aaa]_`a[0¥a`a`]WS`¥WYW]V^^aaa^
@HWI-EAS443:3:40:133:1470#0/1
GGCCAAGGAGGTGTCACCTAAGCTATTCAACTGGTGCCTT
+HWI-EAS443:3:40:133:1470#0/1
¥T¥ZTMYU`_¥TJ^¥]_T[TO[H^X^ZTR[[PNNY]VMFU
@HWI-EAS443:3:40:1373:194#0/1
GGAACAGTGACCACAGAAGCTGCTTTTGGTCTAGTGTGTG
+HWI-EAS443:3:40:1373:194#0/1
aa^`W^¥U`¥QQXV[GTH_UUVGTYVWVRYGXVYUX
@HWI-EAS443:3:40:1509:1267#0/1
CAATATCAGGTGCAAGATCCCAATGATATTTGCTGCAATG
+HWI-EAS443:3:40:1509:1267#0/1
abbaaabbbb`abababb_aabbb`abaaaaabba`aa
@HWI-EAS443:3:40:1571:464#0/1
TCGGGTCCCCATTCCCATTAGGGCATTGGACAAAGCG
+HWI-EAS443:3:40:1571:464#0/1
abb`^`^`aa`abaaa`aaa`_`aX_Ya`a¥`¥a_]a_a
@HWI-EAS443:3:40:1619:1019#0/1
ATCGTCTTTTTTCAAATGATTTATCGTCGCTTTAAATA
+HWI-EAS443:3:40:1619:1019#0/1
X[]_MW^_ba`a^SQ]^a¥]Z^`YF[ZTY`a]^FWZGZ
@HWI-EAS443:3:40:1619:1486#0/1
AACAACATGGATAGAGCAGTTAAACTATACAAGAAGCTCA
+HWI-EAS443:3:40:1619:1486#0/1
^aa`bbabbbaabaaaa`_`aba_¥R]b_ab`b`a`a_
@HWI-EAS443:3:40:177:1323#0/1
AAAGCAGCTTCTGTGGTCACTGTTCCCATCCTGTTGTATA
+HWI-EAS443:3:40:177:1323#0/1
a^a_aa^aa`a¥_T[Z`^a`^¥_a`^¥Sa[[XU^_W`[_
@HWI-EAS443:3:40:218:261#0/1
GAGACCGATGCTGTGAATCAGCAATCTGTTCAAGTGGC

+HWI-EAS443:3:40:218:261#0/1
a]aaab^SGY]a_R¥[U[_]¥]YNW`Q_UVYG^PPNU¥U¥
@HWI-EAS443:3:40:248:1367#0/1
ACCTGATATTGTGGATTACTGATCGTCTTTTTTTCAAATG
+HWI-EAS443:3:40:248:1367#0/1
aaa`aba_aaaXaaa_a`]VZ¥a_L]^_a_``_`YG¥^`
@HWI-EAS443:3:40:413:317#0/1
CTCATATACAACAGGATGGGAACAGTGACCACAGAAGCTG
+HWI-EAS443:3:40:413:317#0/1
a_]`¥baUa`a_XJTNY`aa]¥YRHHUPNZPSNRPSYPSR
@HWI-EAS443:3:40:437:1052#0/1
TAAGCTATTCAACTGGTGCCTTGCCAGTTGCATGGGCCT
+HWI-EAS443:3:40:437:1052#0/1
aab`babbaababa_a[`aaaa`aa[X`V`_aa_`¥Xaa_
@HWI-EAS443:3:40:44:964#0/1
GACCGATGCTGTGAATCAGCAATCTGTTCAAGTGGCAC
+HWI-EAS443:3:40:44:964#0/1
a]aa]S][^a]]_aaa_RU¥]]_Z¥ZU``]WS]¥W___`^
@HWI-EAS443:3:40:499:375#0/1
ATCTTGCACCTGATATTGTGGATTACTGATCGTCTTTTTT
+HWI-EAS443:3:40:499:375#0/1
`a`abb`T]`ab`^_aaa_b^WZVZ¥X_G^ZP¥_^`_]a
@HWI-EAS443:3:40:500:1927#0/1
GATGGTACATGCAATGAGAACTATTGGGACTCATCCTAGC
+HWI-EAS443:3:40:500:1927#0/1
_`a^X]_b_``a`_ba_aab_ab`_]ZXZ`^bbabbab`a
@HWI-EAS443:3:40:546:119#0/1
GGCAAAGGCTATGGAACAGATGGCTGGATCGAGTGAACAG
+HWI-EAS443:3:40:546:119#0/1
a`]a_]_]¥_W¥^^¥¥M^¥U^^UQ^SVVWUUUUWUUSWT
@HWI-EAS443:3:40:597:1204#0/1
TGCATGGGCCTCATATACAACAGGATGGGAACAGTGACCA
+HWI-EAS443:3:40:597:1204#0/1
aabaa`^a[a```a`a`¥^^a`_[W_YV^__XR[____[
@HWI-EAS443:3:40:613:165#0/1
GACCACAGAAGCTGCTTTTGGTCTAGTGTGTGCCACTTGT
+HWI-EAS443:3:40:613:165#0/1
aaa`Z^Y`^)`aZYZ¥UZUY¥Q_NRWQ^RZW^__U^UPSU
@HWI-EAS443:3:40:731:827#0/1
GTTCCCATCCTGTTGTATATGAGGCCCATGCAACTGGCAA
+HWI-EAS443:3:40:731:827#0/1
aQ¥_a[^[aXPbZ_`[]]Z¥RaVR_]LV^ZZPP[¥]X]
@HWI-EAS443:3:40:864:43#0/1
TGGGCCTCATATACAACAGGATGGGAACAGTGACCACAGA
+HWI-EAS443:3:40:864:43#0/1
abbabbbab¥aa`ba`aaa``aaaXH[aWa`a]¥`aa_
@HWI-EAS443:3:40:970:584#0/1
CCCAATGATATTTGCTGCAATGACGAGAGGATCACTTGAA
+HWI-EAS443:3:40:970:584#0/1
abab`bbbbbbbbbbabbbbbb^bba[a`a_^`^`^`^U`

+HWI-EAS443:3:42:1759:586#0/1
abbabbbbbbbaabbabbbbbbabaabaabba`aaaa
@HWI-EAS443:3:42:234:755#0/1
GGTACATGCAATGAGA ACTATTGGGACTCATCCTAGCTCC
+HWI-EAS443:3:42:234:755#0/1
ab[bbbaabaaYa`a`a`aaa`]V`a`a```_``_a^a`
@HWI-EAS443:3:42:237:61#0/1
CTTCTGTGGTCACTGTTCCCATCCTGTTGTATATGAGGCC
+HWI-EAS443:3:42:237:61#0/1
a__¥_V_¥_ZaX_`_WXRZZba¥¥^JG^JVTZZ¥[]¥``
@HWI-EAS443:3:42:26:234#0/1
CATGGGCCTCATATACAACAGGATGGGAACAGTGACCACA
+HWI-EAS443:3:42:26:234#0/1
`b[bababa`_a`__aaa__a]^aa`Za__`Y^_[[[a]
@HWI-EAS443:3:42:313:855#0/1
GTCCCCATTCCCATTTAGGGCATTTTGGACAAAGCGTCTA
+HWI-EAS443:3:42:313:855#0/1
aZa`^ZYaaa_]`^a]_]`[aaaaa`_¥UX`]a^^`a
@HWI-EAS443:3:42:315:2025#0/1
GAGAGGATCACTTGAATCGCTGCATCTGCACTCCCATTCTG
+HWI-EAS443:3:42:315:2025#0/1
¥`_[____`bbbb`[_ba`a¥]`bba^a]abaaa`Za]aa
@HWI-EAS443:3:42:393:1354#0/1
ATTTGCTGCAATGACGAGAGGATCACTTGAATCGCTGCAT
+HWI-EAS443:3:42:393:1354#0/1
Y`b_U`aa]]¥U¥_a]SZ`YXX¥`Y]^aYOUV¥Xa[JOQ]
@HWI-EAS443:3:42:435:1203#0/1
TGGGAGTGCAGATGCAGCGATTCAAGTGATCCTCTCGTCA
+HWI-EAS443:3:42:435:1203#0/1
ab]aa_^a`ba`_aaaa¥a¥_a_a^`T]^`[[__aa_]W
@HWI-EAS443:3:42:440:593#0/1
ACCTGATATTGTGGATTACTGATCGTCTTTTTTTCAAATG
+HWI-EAS443:3:42:440:593#0/1
abbbaabaabb_bbbaa_aaaaaa^aa`aaaaa[_a¥_`
@HWI-EAS443:3:42:528:471#0/1
TGACCACAGAAGCTGCTTTTGGTCTAGTGTGTGCCACTTG
+HWI-EAS443:3:42:528:471#0/1
`bbb_]aab_ZZaba`aa`aa`aab^aVa_a`^aa^`a
@HWI-EAS443:3:42:632:1409#0/1
ATACATTTGAAAAAAGACGATCAGTAATCCACAATATCA
+HWI-EAS443:3:42:632:1409#0/1
a_a_a`aaaa_`_a`S__a_UROQI]`SU[YS]VSWXMT
@HWI-EAS443:3:42:679:164#0/1
CGAGAGGATCACTTGAATCGCTGCATCTGCACTCCCATTCT
+HWI-EAS443:3:42:679:164#0/1
abbbabb^`aZ^a¥_b_a^`¥_aaV^¥a`_]`¥`^¥Z¥S]
@HWI-EAS443:3:42:809:1588#0/1
AGTGATCCTCTCGTCACTTGCAGCAAATATCATTGGGATCT
+HWI-EAS443:3:42:809:1588#0/1
ab__b`b`a`^a¥a¥bXaH_aaa```[`aa`_[[_^T^_

@HWI-EAS443:3:42:943:693#0/1
GGGCCTCATATACAACAGGATGGGAACAGTGACCACAGAA
+HWI-EAS443:3:42:943:693#0/1
abababbbabbbbaaaaab`aaba_aaabZa`a_`a[aa_
@HWI-EAS443:3:42:980:952#0/1
CTGCTTTTGGTCTAGTGTGTGCCACTTGTGAACAGATTGC
+HWI-EAS443:3:42:980:952#0/1
^`]aabb]_b]b]]a]a_babaaZbbaabbVZ^`¥_aaa
@HWI-EAS443:3:43:1003:1091#0/1
GCCTCATATACAACAGGATGGGAACAGTGACCACAGAAGC
+HWI-EAS443:3:43:1003:1091#0/1
aa`aaab`bbaaaaab^^`_a_a]]_]aa`_`^a_____¥
@HWI-EAS443:3:43:1007:1810#0/1
GCCTCATATACAACAGGATGGGAACAGTGACCACAGAAGC
+HWI-EAS443:3:43:1007:1810#0/1
a_QT]a]aaa[X`a`^^^`a`¥XVZZK[_[^Z]¥[Z[U
@HWI-EAS443:3:43:1062:1560#0/1
GGGCCTCATATACAACAGGATGGGAACAGTGACCACAGAA
+HWI-EAS443:3:43:1062:1560#0/1
^a^`VZZZbb`b_a^Z¥]RZabaMU[N[_[`aZ``0a^`S
@HWI-EAS443:3:43:1084:429#0/1
CTAGACCAAAAAGCAGCTTCTGTGGTCACTGTTCCCATCCT
+HWI-EAS443:3:43:1084:429#0/1
a_`babbb``_aaa]`abaaaaa^aa_a]^`a_`¥``_]`
@HWI-EAS443:3:43:1198:1920#0/1
AGACCGATGCTGTGAATCAGCAATCTGTTCAAGTGGCA
+HWI-EAS443:3:43:1198:1920#0/1
^[_`babb`bbbbaaaa^_U_V``_T__Y`]`^a`WP^X]^`
@HWI-EAS443:3:43:1213:1233#0/1
GAACAGTGACCACAGAAGCTGCTTTTGGTCTAGTGTGTGC
+HWI-EAS443:3:43:1213:1233#0/1
`bbbab`bbbabaaa```abaaaaa^a_aaaa_`^__a]
@HWI-EAS443:3:43:1344:378#0/1
GATGACCTTCTTGAATAATTTGCAGGCCTACCAGAAGCGAA
+HWI-EAS443:3:43:1344:378#0/1
abb¥baabb`ba_``baaaaa_aa``_aa`¥]a``aQa_^`
@HWI-EAS443:3:43:1360:680#0/1
CTCATATACAACAGGATGGGAACAGTGACCACAGAAGCTG
+HWI-EAS443:3:43:1360:680#0/1
U_`[^[¥a`aaa`b^X_aWQ_[]`b¥bbba]bbbaaab
@HWI-EAS443:3:43:140:688#0/1
CACTTGTGAACAGATTGCTGATTCACAGCATCGGTCTCAC
+HWI-EAS443:3:43:140:688#0/1
a`bbbabbbbbbabbba[bbbbbbabbabb]ababa
@HWI-EAS443:3:43:1413:899#0/1
GGATTACTGATCGTCTTTTTTTCAAATGTATTATCGTCG
+HWI-EAS443:3:43:1413:899#0/1
ababbbabb`aab`_bbbbbaaaaabaa_abaa_aV___a
@HWI-EAS443:3:43:1417:889#0/1
AATCAGCAATCTGTTCAAGTGGCACACACTAGACCAAA

+HWI-EAS443:3:43:1417:889#0/1
a`bbaaaabaab``_aaa`a]a`a````````a_]`[_]]
@HWI-EAS443:3:43:1445:995#0/1
ATCTGCACTCCCATTCGCTTCTGGTAGGCCTGCAAATTTT
+HWI-EAS443:3:43:1445:995#0/1
`[TY_b``Z¥PUOYG][WY¥X¥XXQQ`TFF`ZFQQ¥¥X]O
@HWI-EAS443:3:43:1448:346#0/1
GGAGTGCAGATGCAGCGATTCAAGTGATCCTCTCGTCATT
+HWI-EAS443:3:43:1448:346#0/1
ab`aYaaaa_aa_aa]b`a`^_a]a`_ZZa`^`a]]^`_
@HWI-EAS443:3:43:1548:1883#0/1
GAACAGTGACCACAGAAGCTGCTTTTGGTCTAGTGTGTGC
+HWI-EAS443:3:43:1548:1883#0/1
a]__X_F]aUJZN[aX`_[RYNY_Z[IVWWZZRYU]UWL
@HWI-EAS443:3:43:1556:21#0/1
AATCAGACTAGGCAGATGGTACATGCAATGAGAACTATTG
+HWI-EAS443:3:43:1556:21#0/1
^aaabba]aba`b^aaa^_aaaa¥[a`R[]^U]^a_a
@HWI-EAS443:3:43:1573:488#0/1
GATCGTCTTTTTTCAAATGTATTTATCGTCGCTTTAAAT
+HWI-EAS443:3:43:1573:488#0/1
a]X_^^^_a````b_XXYR]LV^Y`_¥X¥WTXZ¥^X[YYY
@HWI-EAS443:3:43:1631:1409#0/1
TGCACCTGATATTGTGGATTACTGATCGTCTTTTTTTCAA
+HWI-EAS443:3:43:1631:1409#0/1
`bab`b`b`babaa¥`¥^aaa^_Y_a^^_ZaaabaaaP]_
@HWI-EAS443:3:43:1653:1943#0/1
GAGCAGTTAAACTATACAAGAAGCTCAAAAGAGAAATAAC
+HWI-EAS443:3:43:1653:1943#0/1
_^]____^`_G[b_a_aaa`_aYW__`^¥V[YUY_a`_T
@HWI-EAS443:3:43:1726:1171#0/1
AGGTGCAAGATCCCAATGATATTTGCTGCAATGACGAGAG
+HWI-EAS443:3:43:1726:1171#0/1
¥¥`[[]¥`^bb¥0Za`aa_ba`]Za`]a]aaZ_]K]_aT_
@HWI-EAS443:3:43:1775:40#0/1
TGTCTGTGAGACCGATGCTGTGAATCAGCAATCTGTTCAC
+HWI-EAS443:3:43:1775:40#0/1
W¥`_O_^_]`_¥X¥_a]R]^`a]]`a]_UVZ^U[MWS
@HWI-EAS443:3:43:1779:111#0/1
AGGCCATGGAGTTGCTAATCAGACTAGGCAGATGGTACA
+HWI-EAS443:3:43:1779:111#0/1
aab__`b`b`ab_aZUaa[_aWb¥F^Y]^UNZNP]]UVGY
@HWI-EAS443:3:43:194:481#0/1
GTGACCACAGAAGCTGCTTTTGGTCTAGTGTGTGCCACTT
+HWI-EAS443:3:43:194:481#0/1
¥ORZW]XY¥Z`¥MM]XYZTYVOYW_W]_N¥XPMWG¥OWUS
@HWI-EAS443:3:43:295:1785#0/1
CAGCAATCTGTTCAAGTGGCACACACTAGACCAAAAGC
+HWI-EAS443:3:43:295:1785#0/1
abbb`aaaa_^^`bbaZVM`ababaa_abab[^a`aaa^

@HWI-EAS443:3:43:303:25#0/1
TGACAAGATTGGTCTTGTCTTTAGCCATTCATGAGAGCC
+HWI-EAS443:3:43:303:25#0/1
ab^^_U]X`aab^__^bZ_aYaaaa^_ZX`Z`_`_]`XU
@HWI-EAS443:3:43:305:253#0/1
TGGGCCTCATATACAACAGGATGGGAACAGTGACCACAGA
+HWI-EAS443:3:43:305:253#0/1
ab``ababbbbababba`ab`abab`a`aa_baaaa`baa
@HWI-EAS443:3:43:341:263#0/1
CGATAAATACATTTGAAAAAAGACGATCAGTAATCCACA
+HWI-EAS443:3:43:341:263#0/1
a_X¥aaaa¥^a_bba]aaa^¥^`_a`_XZ[]T_a_ZUZX`
@HWI-EAS443:3:43:374:1156#0/1
TGGGCCTCATATACAACAGGATGGGAACAGTGACCACAGA
+HWI-EAS443:3:43:374:1156#0/1
`baUab[]abaa`P_]_aaaaaaY_¥aaZaa]_a^PW`
@HWI-EAS443:3:43:528:1213#0/1
GATCCCAATGATATTTGCTGCAATGACGAGAGGATCACTT
+HWI-EAS443:3:43:528:1213#0/1
aba_Y]abb_WW_`abaa^Za```a__^`^`]]`XY`Z]X
@HWI-EAS443:3:43:581:90#0/1
GTCCTGTTCCCATCCTGTTGTATATGAGGCCCATGCAAC
+HWI-EAS443:3:43:581:90#0/1
a^_a__a^____¥_X[X_]^^X]]^)^XXXUXVVV^UXXR
@HWI-EAS443:3:43:618:798#0/1
GACCACAGAAGCTGCTTTTGGTCTAGTGTGTGCCACTTGT
+HWI-EAS443:3:43:618:798#0/1
abababbabbabaaaa`a`a^__a____``_aa¥__a`]-
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+HWI-EAS443:3:43:736:1732#0/1
aaaa^bb[`aba¥]Z_a[aaa`a]]][a[aa_abbbYM[]_-
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+HWI-EAS443:3:43:745:1098#0/1
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@HWI-EAS443:3:43:784:1231#0/1
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¥_W]UXXaa^ab^bXS^0¥aaaa_a^V`]Ya_Wa_R`a]X
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+HWI-EAS443:3:43:793:1196#0/1
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@HWI-EAS443:3:43:858:1344#0/1
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+HWI-EAS443:3:43:858:1344#0/1
a_U^aX]aaa__`a__a_]_]_[[]Y^__^[]^U_[-_-]
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+HWI-EAS443:3:43:986:496#0/1
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U_a__¥a^`b__a`¥_[^¥_Y__a^`_UZ]¥[a]Z[T]V[
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+HWI-EAS443:3:44:1326:1467#0/1
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Z_b^[[[Z[U_aaQaSSVZbb¥a_TaZUaaXMYU_a_UVD
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+HWI-EAS443:3:44:1358:1683#0/1
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@HWI-EAS443:3:44:1359:1794#0/1
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+HWI-EAS443:3:44:1359:1794#0/1
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+HWI-EAS443:3:44:136:430#0/1
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+HWI-EAS443:3:44:1457:735#0/1
a`baaaaaa_bZa_[^a_aaW^X`_^`¥__¥Ua¥[W[
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+HWI-EAS443:3:44:1476:1269#0/1
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+HWI-EAS443:3:45:1040:822#0/1
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+HWI-EAS443:3:45:1047:484#0/1
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+HWI-EAS443:3:45:1141:1560#0/1
_`b`a]b^`aYbba`bb`_aU`^aX]aaaaZSXOXYQ^aa
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+HWI-EAS443:3:45:1152:1597#0/1
a¥X]RGR[aa_aZ`aa^a^ba`__NTGZa__VFT[¥_Z_¥
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+HWI-EAS443:3:45:1161:1033#0/1
a`_a_]aaa`a`aV_XG_a_XVX`¥`^¥U[___[VTX^XK
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a^_bVaaa[M]Ya_^¥ZK^[YVIRTPVRJOW^[Y^XUTPO
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XW]a_]_[F]U¥aa[Za]YaaU`_]_OOX`YWTU[QDR`N
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+HWI-EAS443:3:45:1534:467#0/1
aX^[ZZbabbS]WSUa_``[R_```_`^[^Z^`YLQX__Y

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¥_a`La`¥`aabbab_Z_a¥Qaaba_a]Y``_abbbaa`_
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+HWI-EAS443:3:45:1726:664#0/1
ab_abbbbaab`a``aab_^WUXDYW_TPT]¥]_[I^U
@HWI-EAS443:3:45:212:85#0/1
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X¥aa_Kbb[b`b`aabb[bbbaa_Yb]_bba[_R_aab]^
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+HWI-EAS443:3:45:220:1068#0/1
`a_a^][baa_aa_¥_N_^_[YFRP¥[Q[`¥¥¥¥UGUUU
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+HWI-EAS443:3:45:463:711#0/1
`aa_a_Z]Z^`^¥a___^_¥MZ¥W]OZV[XW¥]OV]]
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+HWI-EAS443:3:45:496:1431#0/1
aaa`a_aa]`XVX_]][SYSX_¥_V_WWW__¥__WV_V¥X
@HWI-EAS443:3:45:500:383#0/1
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aaaa`aaaaa`a`aaa^`a`a^`^`Za_^¥^[^__^
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`[^`a_baaa__Y^^YY`^`aZRZ__]^]¥[YS]a`^^]V^
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+HWI-EAS443:3:45:679:1033#0/1
SS_¥`[U^X¥S_XY_^Y_¥_ZH]TYFT_a^QST_aU]WOY
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_b[bbbabaaabba_b`babbba__a`b^`aba_a__
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+HWI-EAS443:3:45:77:1446#0/1
`^¥`ab``_aba_`_^0V_a``aaZ`^[U^]XZ^¥NXZ_`
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+HWI-EAS443:3:45:896:402#0/1
aa``_`_a_``__^^]]__U`_] ^Y]U_Y_YX]]_]U^]X
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+HWI-EAS443:3:45:916:209#0/1
aaSaYaa_U]_`]]^[Z_____`^`_]]`]YU_]_]X_RX^
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GACCGATGCTGTGAATCAGCAATCTGTTCAACAAGTGGCAC
+HWI-EAS443:3:45:943:1324#0/1
`_a¥^SUa_UWX_``^]_`aWYU¥][¥UZ^`W]X[ZFU
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+HWI-EAS443:3:45:98:387#0/1
aaaaaaaaa`¥a[[a_a```a`_`a[aaZ[^ZU`]^U^_
@HWI-EAS443:3:46:1220:1318#0/1
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+HWI-EAS443:3:46:1220:1318#0/1
_S]_W_`_TSZ`a``aZUVUY`a_] ^Z_¥]ZSV[G]VVZ
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+HWI-EAS443:3:46:1375:337#0/1
aa`bab_ab`aaaa`a_aaaa_``a`a^a``a¥^__`Y]
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+HWI-EAS443:3:46:1447:1297#0/1
aaaaS¥```a`aZ^_^_^T[Y][Z_V_[_YUT]^]TSWN
@HWI-EAS443:3:46:1514:204#0/1
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+HWI-EAS443:3:46:1514:204#0/1
a``a_]__aa__YS[RS^_ZZTZ^VWUZPYS[WUVYYW
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+HWI-EAS443:3:46:1758:260#0/1
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+HWI-EAS443:3:46:1785:1178#0/1
abbb`bbaabbabbbbababababaaaab]bbabaaa`aa_
@HWI-EAS443:3:46:275:1650#0/1
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+HWI-EAS443:3:46:275:1650#0/1
]abbabbbb_XZ^a`aaa`X`P`]`]a`^]UZYZ_^^XVS
@HWI-EAS443:3:46:376:293#0/1
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+HWI-EAS443:3:46:376:293#0/1
aabaaa_a[`aaaa_aa__aa``a``^`¥``W``^¥_W__

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+HWI-EAS443:3:46:53:550#0/1
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@HWI-EAS443:3:46:601:816#0/1
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+HWI-EAS443:3:46:601:816#0/1
a``_ab]aaaa`aaaba`aaaaaba`a_aa`````aa_b¥
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GATCGTCTTTTTTTCAAATGTATTTATCGTCGCTTTAAAT
+HWI-EAS443:3:46:760:102#0/1
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+HWI-EAS443:3:46:927:1425#0/1
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aaaaaaaa`^aaa_aaaa`a_aa_a```_`a_`a_aa[[`^
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ab`abaaa`aYaaaaaaaa__a^_a]V^]_^_]_]_a]_Y
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+HWI-EAS443:3:47:1080:315#0/1
¥Z__ab¥Sba`JSaaa¥aaaP]_`aa[PaY]^__¥P_^]X
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+HWI-EAS443:3:47:1161:244#0/1
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@HWI-EAS443:3:47:1168:398#0/1
CACAAGTGGCACACACTAGACCAAAGCAGCTTCTGTGGT
+HWI-EAS443:3:47:1168:398#0/1
abb`bbabbbbbbbabbbbb`^abbabaaa`_a^aa`aa¥
@HWI-EAS443:3:47:1196:1093#0/1
GAGAGGATCACTTGAATCGCTGCATCTGCACTCCCATTG
+HWI-EAS443:3:47:1196:1093#0/1
a^S¥Z^`_]_^0¥]TW¥a`aVVOV[VTLW[V_U_¥SNMMN]
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+HWI-EAS443:3:47:328:1934#0/1
a_Y¥]`aVa__a][X]`_¥aY`a_^^YG[XVPYW_ZV_SS
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+HWI-EAS443:3:47:747:504#0/1
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+HWI-EAS443:3:47:763:186#0/1
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+HWI-EAS443:3:47:829:1291#0/1
aaaa¥aaaa_``aa`__^`¥P^_Y``]UV`]_^]XU^^Y
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+HWI-EAS443:3:47:842:1114#0/1
_¥`b]aababbaabba_aaaa_]a^`a`aaSaaaa`_
@HWI-EAS443:3:47:858:936#0/1
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+HWI-EAS443:3:47:858:936#0/1
ab_a`aaabaa_[]`ba^_a_ZZ`__T``_^__`^aZZY
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+HWI-EAS443:3:48:1004:681#0/1
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+HWI-EAS443:3:48:1055:575#0/1
ab_b¥^`b]^abaZ__`aaa^a__aa¥_a^`__N]_YaQ
@HWI-EAS443:3:48:1134:640#0/1
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+HWI-EAS443:3:48:1134:640#0/1
a_```¥^`Ya^`b_a^baZ_SS]a``XS]__V¥[]UY¥XS
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+HWI-EAS443:3:48:1230:1846#0/1
`¥_aV[]`W_]aa_[a_[]^`¥`¥NZ_SL^R^_¥¥¥T
@HWI-EAS443:3:48:1236:1175#0/1
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+HWI-EAS443:3:48:1236:1175#0/1
```^aaaaaaaa`a\_\_a`\_^a\_\_\_\_a[\_aVa^\_¥\_W`\_\_  
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+HWI-EAS443:3:48:1302:303#0/1  
`[¥¥`YHVZ]ZZ^[a^[W]`\_\_aaa`\_]\_a^\_¥^Y[W]WV  
@HWI-EAS443:3:48:1312:1981#0/1  
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+HWI-EAS443:3:48:1312:1981#0/1  
aa`a`a`a`a`a`X¥aa`\_a`\_\_a^`\_`\_\_ZV\_^Z]\_]\_]U  
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+HWI-EAS443:3:48:1372:871#0/1  
aa\_\_^¥`ab`a`\_]\_]\_^`[[U[^[\_V]]^X^WZ]XX]^X  
@HWI-EAS443:3:48:1425:1572#0/1  
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+HWI-EAS443:3:48:1425:1572#0/1  
a`\_]\_a`aa[a\_\_`aa`a`R`¥a`X\_\_¥\_\_V\_UWYT¥¥^U  
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+HWI-EAS443:3:48:1529:540#0/1  
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+HWI-EAS443:3:48:1539:1084#0/1  
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+HWI-EAS443:3:48:1554:1575#0/1  
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+HWI-EAS443:3:48:1557:955#0/1  
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+HWI-EAS443:3:48:1578:1737#0/1  
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ACCAAAAGCAGCTTCTGTGGTCACTGTTCCCATCCTGTTG  
+HWI-EAS443:3:48:1588:494#0/1  
¥\_\_\_\_a`b^bbaba^aaa\_a^[Z]``¥a`XNT]¥YYa\_\_0  
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+HWI-EAS443:3:48:1655:638#0/1  
`] ^0]V\_bKWabab[L`Zabba\_\_baX^^a`¥]¥`X\_V[P  
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+HWI-EAS443:3:48:1667:687#0/1  
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+HWI-EAS443:3:48:168:1215#0/1  
X`aab`b`]U\_\_U¥X\_aV[0ab¥^¥X\_]Xba^Z\_]^\_¥a¥

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+HWI-EAS443:3:48:1721:339#0/1  
aaa\_^aaaa\_\_baa`aab\_]`^a``]\_W\_^Xa\_^\_\_^]^^  
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+HWI-EAS443:3:48:1736:968#0/1  
a\_R`U`b`aa¥aaaa[aba]^^ZN\_a[\_Zb\_Y\_\_Za]\_\_]  
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+HWI-EAS443:3:48:1776:1275#0/1  
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+HWI-EAS443:3:48:193:1600#0/1  
ab\_\_¥\_XRZb\_QN^V¥¥TYXKOWUYS^VRYWUXYY[[YGT  
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+HWI-EAS443:3:48:195:938#0/1  
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+HWI-EAS443:3:48:42:304#0/1  
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+HWI-EAS443:3:48:506:134#0/1  
a`aa`ba^a\_a`Xaaa`a\_\_¥\_\_\_¥\_\_\_¥\_YU\_¥¥U^¥¥  
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+HWI-EAS443:3:48:594:692#0/1  
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+HWI-EAS443:3:48:712:640#0/1  
abb`bbbbbbaababbaababb[^aa`V`^  
@HWI-EAS443:3:48:747:469#0/1  
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+HWI-EAS443:3:48:767:520#0/1  
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+HWI-EAS443:3:48:875:1264#0/1  
]TV)`X`a¥a]T¥a¥¥aa[¥`¥a\_\_L[\_[a¥X[UZU^[U^  
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CTGATATTGTGGATTACTGATCGTCTTTTTTTCAAATGTA  
+HWI-EAS443:3:49:1070:1637#0/1  
a`bbbbbbbaabba` `[`bbabb]X`b\_bba`L\_bbbb\_`  
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ATCCCAATGATATTTGCTGCAATGACGAGAGGATCACTTG  
+HWI-EAS443:3:49:1072:418#0/1  
aba`^`abbaaaa`\_\_`a`^¥`Wb```a^]]Y`^^`¥  
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+HWI-EAS443:3:49:1087:1572#0/1  
a`[\_aaaaaaaa\_`aaa\_a^`a^a`a\_a^^`a\_¥0\_\_a\_  
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CAGAAGCTGCTTTTGGTCTAGTGTGTGCCACTTGTGAACA  
+HWI-EAS443:3:49:1240:164#0/1  
a\_\_]\_\_Z¥¥Za^]¥\_\_^`Z\_U]\_]^Z]]`a]W[YZ\_VZFT  
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+HWI-EAS443:3:49:1329:1470#0/1  
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+HWI-EAS443:3:49:1383:999#0/1  
ZN]aTZOZ]aaQaaXa^\_\_`Z[[^aa[XX¥]]ZLY[¥[NY  
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`baaba\_^ba`b`babbb`ba`baaaa`aaaa¥^aa^\_a\_  
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ababaabbaabbaabbb`baabaaW\_b`¥aa\_a`\_aU\_  
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+HWI-EAS443:3:49:1464:310#0/1  
aaba]a`ba\_bba`aYaaaa\_aa\_\_\_^aa^^a`\_]\_\_\_¥  
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+HWI-EAS443:3:49:1602:363#0/1  
\_]\_` `[`aa\_Za]X^a`a]`a\_Y\_\_`^`Z^^^a`¥V[T\_Y  
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+HWI-EAS443:3:49:1712:354#0/1  
abbbbaababbb`b`abbbba`\_aaa`\_`aaa\_Ya\_\_a]\_

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+HWI-EAS443:3:49:1737:1836#0/1  
`babaaaab\_a^aZa`aZaa\_a\_`^a\_\_`\_UU\_`a\_¥Q\_  
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+HWI-EAS443:3:49:192:363#0/1  
a^VaaU`\_abaVYY`aa```]Z^a¥JYa\_aaaaVa^\_\_a  
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GAACAGTGACCACAGAAGCTGCTTTTGGTCTAGTGTGTGC  
+HWI-EAS443:3:49:269:1263#0/1  
abb^bb]baaaaab\_baa\_aa``aaa`a^`aa]X¥`\_\_a¥  
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+HWI-EAS443:3:49:361:103#0/1  
abaa`bWb`\_aa\_a`aaa^`aa\_\_Z`\_`a^\_N```¥\_\_UZ  
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GATCTGTGTTCTTTCTGCAAAGACACTTTCCAGTCTCTG  
+HWI-EAS443:3:49:422:1642#0/1  
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TGCAGATGCAGCGATTCAAGTGATCCTCTCGTCATTGCAG  
+HWI-EAS443:3:49:432:609#0/1  
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+HWI-EAS443:3:49:465:696#0/1  
aabab\_a`a\_W]a`aa\_a\_a^a\_\_`\_[[`\_a\_aa^`\_a[\_  
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GATGGGAACAGTGACCACAGAAGCTGCTTTTGGTCTAGTG  
+HWI-EAS443:3:49:477:1355#0/1  
\_\_I\_¥¥HZX\_W[\_[XSVZ¥]X[]MZNJ]\_\_\_XWIUSZ] [\_  
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+HWI-EAS443:3:49:78:197#0/1  
Y`bb]\_`\_]\_V\_b]L¥\_ab¥baaa\_aa`^aZ]\_`]]¥U]]^  
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+HWI-EAS443:3:4:1205:273#0/1  
aba`a`a`aaa`\_\_\_\_`\_\_aa`\_^]Q¥\_]Z\_\_Z\_ZR\_Z  
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GCTATTCAACTGGTGCAC TTGCCAGTTGCATGGGCCTCAT  
+HWI-EAS443:3:4:1319:1226#0/1  
a` [ [¥^`^a`ZV^W^\_¥ [ ^`a^¥\_`^UZ\_U¥QZ^^VUYS¥¥  
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+HWI-EAS443:3:4:1474:1389#0/1  
aaabaaabaabaa`\_`\_a\_\_a\_^aa\_a]]¥`¥\_aWW\_Y\_\_  
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GACCGATGCTGTGAATCAGCAATCTGTTCAAGTGGCAC  
+HWI-EAS443:3:4:1492:1233#0/1  
`\_`\_a^]\_`\_`b\_`Z`¥D[\_R\_[¥S¥\_QRJNIXRTJSUDVT  
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+HWI-EAS443:3:4:1566:1913#0/1  
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+HWI-EAS443:3:4:1661:1324#0/1  
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+HWI-EAS443:3:4:1663:1041#0/1  
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+HWI-EAS443:3:4:1719:1680#0/1  
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aa\_a]ababb`aVab\_bbbaa`a]ab¥\_b`a^a]aba`^  
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AAATGCCCTAAATGGGAATGGGGACCCGAACAACATGGAT  
+HWI-EAS443:3:4:26:1403#0/1  
aaaa`\_]`^`a`a\_``[ `a`\_] ] ] `^\_]^^^X[\_^\_^\_^\_`^

@HWI-EAS443:3:4:381:987#0/1  
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abb^]TY`aaba\_X`aVbbaZ[b`aI`P¥aTaa\_Z¥`\_a\_  
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+HWI-EAS443:3:4:454:266#0/1  
aaaaaa`aaa^\_aa\_^`¥\_\_V\_]V]]^]`^^X]]VX¥]U  
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+HWI-EAS443:3:4:59:1630#0/1  
¥\_abbYb\_\_baaabbaaabbaa`ab\_bbUb`aaaV¥a`a  
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AGAGAAATAACGTTCCATGGGGCCAAGGAGGTGCTACTAA  
+HWI-EAS443:3:4:640:384#0/1  
\_TTba\_bbaZW`^\_^P\_T`\_\_\_TU]^[]\_`]Y^VR`]ZBB  
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GGCCTCATATACAACAGGATGGGAACAGTGACCACAGAAG  
+HWI-EAS443:3:4:686:1227#0/1  
aa\_`^`^`\_\_aaaaZ`a\_\_`aa[\_V\_a¥`\_\_SWZ`\_`\_]  
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a\_a`\_aYZ`\_V\_\_¥^YU\_UV\_]V]X^Y]V]YVVYXVVBBB  
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+HWI-EAS443:3:4:85:850#0/1  
ab^T¥aY`^^¥QOP^[QHYYTVQH^[`S]^NVVZZ¥[`ZV  
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+HWI-EAS443:3:4:911:231#0/1  
aab^bbb\_aa\_aaaaa\_aaa^`Xa^a`]YX]\_`a`\_`^\_`^  
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+HWI-EAS443:3:4:951:1884#0/1  
aaaaaZaaa`a^\_aZ¥a`\_XQ[a\_X\_\_^][\_]ZW]XS¥¥]  
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+HWI-EAS443:3:4:952:940#0/1  
ab`aaaaaaa`\_a^\_a`aaa`^a\_\_`a¥]aa\_\_`\_\_\_\_[^  
@HWI-EAS443:3:4:95:225#0/1  
GATCACTTGAATCGCTGCATCTGCACTCCCATTTCGCTTCT  
+HWI-EAS443:3:4:95:225#0/1  
\_P\_aa\_bbabb`aa`aaaXVa\_\_¥]\_\_Z¥S`\_\_¥WZ¥¥]  
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+HWI-EAS443:3:50:1062:1760#0/1  
aaa\_ba[^\_``aaa`ab\_aaUaa]]a`aa\_a`¥`\_]\_`]^  
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GTTCCGGTCCCCATTCCCATTTAGGGCATTTTGGACAAAG  
+HWI-EAS443:3:50:1196:1579#0/1  
``\_a`aa\_aa^^[]a``]\_aa`a\_]V]aaaT\_T¥W`]¥Z  
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+HWI-EAS443:3:50:1220:444#0/1  
aa[\_W][W\_T0^Z[X^\_V\_bZZUWW[SVZ^WWZH]]U[RZ  
@HWI-EAS443:3:50:1225:392#0/1  
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+HWI-EAS443:3:50:1225:392#0/1  
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+HWI-EAS443:3:50:1233:259#0/1  
\_b`bbab`abbaaab]Yaaa`\_a`a^`\_`]aa`^`\_a  
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+HWI-EAS443:3:50:1258:592#0/1  
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@HWI-EAS443:3:50:1415:469#0/1  
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+HWI-EAS443:3:50:1415:469#0/1  
aabbaabbbbaabbbba`abbaabb`bbbbbbbabaaa  
@HWI-EAS443:3:50:1492:345#0/1  
GGTGTCACTAAGCTATTCAACTGGTGCACCTGCCAGTTGC  
+HWI-EAS443:3:50:1492:345#0/1  
^aR`a\_bbabab\_bbbbbbaa\_\_¥``aab`aa`abaaa\_  
@HWI-EAS443:3:50:1517:1246#0/1  
CTTGTGAACAGATTGCTGATTCACAGCATCGGTCTCACAG  
+HWI-EAS443:3:50:1517:1246#0/1  
abaa]S[`abb\_baaaab]\_a]aZaa\_\_aaaaSH^\_aR\_]`  
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GGGCCAAGGAGGTGTCACTAAGCTATTCAACTGGTGCACCT  
+HWI-EAS443:3:50:1667:2040#0/1  
``\_]`\_a\_]`b^`^aa`aa`Xaaba````\_`aa^a][¥W



@HWI-EAS443:3:50:1667:541#0/1  
CATTCTGTTTTTCATGCCTGATTAGTGGATTGGTGGTAGTA  
+HWI-EAS443:3:50:1667:541#0/1  
aab`b^\_[baaZ^aaaaba`b]b[\_]^`\_¥]]V\_HFQQB  
@HWI-EAS443:3:50:286:398#0/1  
CAAGTGGCACACTAGACCAAAGCAGCTTCTGTGGTCA  
+HWI-EAS443:3:50:286:398#0/1  
aZIZZ^^]a`]aa[]^[[¥^YY]\_`¥¥]]a]]ZISXQ[X  
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+HWI-EAS443:3:50:346:598#0/1  
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CGTATTTAAAGCGACGATAAATACATTTGAAAAAAGACG  
+HWI-EAS443:3:50:391:231#0/1  
ab`a`bbaa^aba^ba\_aaa\_a``ab\_aaaaaaaaaa[¥`  
@HWI-EAS443:3:50:402:1135#0/1  
GGCCTCATATACAACAGGATGGGAACAGTGACCACAGAAG  
+HWI-EAS443:3:50:402:1135#0/1  
aa^ababbbbaaba\_bbb\_abaa\_a`ab`bb\_Z¥\_aaa`a  
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GGAGGTTGCTAATCAGACTAGGCAGATGGTACATGCAATG  
+HWI-EAS443:3:50:402:961#0/1  
aaRaaTa\_\_a[W^Pa`U^^]Z[aTY``HUQ\_Y\_]]]U[  
@HWI-EAS443:3:50:461:1197#0/1  
GGAGTGCAGATGCAGCGATTCAAGTGATCCTCTCGTCATT  
+HWI-EAS443:3:50:461:1197#0/1  
aaabaaabbabbab`ba\_\_a`aa\_\_a`b^aa`a]a¥\_``a  
@HWI-EAS443:3:50:487:684#0/1  
CTCCCATTCGCTTCTGGTAGGCCTGCAAATTTTCAAGAAG  
+HWI-EAS443:3:50:487:684#0/1  
abbba[bbaabbbbaaaabab`bbbaabbbbbbbaabbbba  
@HWI-EAS443:3:50:625:386#0/1  
TGCAGATGCAGCGATTCAAGTGATCCTCTCGTCATTGCAG  
+HWI-EAS443:3:50:625:386#0/1  
\_`\_S¥b`b[babaYUK`]b]`[`¥VaVb``^`\_`bb\_M]\_  
@HWI-EAS443:3:50:658:616#0/1  
TGGGCCTCATATACAACAGGATGGGAACAGTGACCACAGA  
+HWI-EAS443:3:50:658:616#0/1  
aa`[`abaaaba`aa`aaa\_`¥`\_`¥``[\_`[R\_T\_X^  
@HWI-EAS443:3:50:66:1381#0/1  
AACAGTGACCACAGAAGCTGCTTTTGGTCTAGTGTGTGCC  
+HWI-EAS443:3:50:66:1381#0/1  
\_bYaa\_bb\_Yab`V]aa\_\_aZ^a\_¥QXX\_a^`U`\_\_^^]]  
@HWI-EAS443:3:50:768:616#0/1  
CATCTGCACTCCCATTTCGCTTCTGGTAGGCCTGCAAATTT  
+HWI-EAS443:3:50:768:616#0/1  
]IYaaaS¥^Ua^XX`]L]Y]\_`abZZ¥LLP¥aX]ZXb`a  
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GTGACCACAGAAGCTGCTTTTGGTCTAGTGTGTGCCACTT

+HWI-EAS443:3:50:770:201#0/1  
\_a\_ba\_aY[[aaa^^`Z\_]ba[WI]]]KNa^a\_aX¥[]`  
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GAGAGCCTCAAGATCTGTGTTCTTTCCTGCAAAGACACTT  
+HWI-EAS443:3:50:801:1975#0/1  
abb\_\_[bababbbb`ba`bab\_bbaXXabb]bababZ`a  
@HWI-EAS443:3:50:865:306#0/1  
AGCTGCTTTTGGTCTAGTGTGTGCCACTTGTGAACAGATT  
+HWI-EAS443:3:50:865:306#0/1  
^\_\_abaabbbbb`aabb`ab\_ba`babbb\_aaaabb`aa  
@HWI-EAS443:3:50:897:848#0/1  
CAGCAATCTGTTCAAGTGGCACACACTAGACCAAAAGC  
+HWI-EAS443:3:50:897:848#0/1  
a^¥`bb]\_a\_Wa^^`\_`¥`aab`^b\_^¥P\_b]aaJ  
@HWI-EAS443:3:50:903:848#0/1  
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+HWI-EAS443:3:50:903:848#0/1  
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@HWI-EAS443:3:50:936:930#0/1  
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+HWI-EAS443:3:50:936:930#0/1  
aa`a`\_bbb`\_`aa\_b`a`]a`a`\_Va`\_\_`\_YH^U\_]`  
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+HWI-EAS443:3:51:1032:805#0/1  
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+HWI-EAS443:3:51:1116:905#0/1  
aaaa`a`\_\_`\_a¥Ya^aZ]R`¥]W`a`^`\_[a^Ya\_V[Q  
@HWI-EAS443:3:51:1155:14#0/1  
GGATTACTGATCGTCTTTTTTTCAAATGTATTTATCGTCG  
+HWI-EAS443:3:51:1155:14#0/1  
^^`\_a\_Zaaa`a^Wbbbab`a\_\_aa`b[\_aba[^X`[Y]  
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CACTAAGCTATTCAACTGGTGCACCTGCCAGTTGCATGGG  
+HWI-EAS443:3:51:1168:695#0/1  
ab`b`bbababbbba`baV[aab\_aa\_b\_ab\_b`a]aa]`  
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GTGGATTACTGATCGTCTTTTTTTCAAATGTATTTATCGT  
+HWI-EAS443:3:51:116:987#0/1  
`S\_\_\_`]¥^]¥U\_ZaXY^Y\_^\_^\_]`[\_¥`X]\_\_\_¥ZT^Y  
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+HWI-EAS443:3:51:1342:1369#0/1  
`SQ¥\_¥ZOX]YT^SLTXPDOX^XQ\_VOZ[LZ^S\_BBBBBB  
@HWI-EAS443:3:51:1358:160#0/1  
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+HWI-EAS443:3:51:1358:160#0/1  
`baaab`aa`baaZaa\_a``]S][`Ra\_^\_]G\_U]\_UVP

@HWI-EAS443:3:51:1419:1862#0/1  
CTCCCATTGCTTCTGGTAGGCCTGCAAATTTTCAAGAAG  
+HWI-EAS443:3:51:1419:1862#0/1  
`a[^bXP]\_bb^Z\_[[baa\_\_aXa`\_aabb`\_aa\_^a  
@HWI-EAS443:3:51:1500:1816#0/1  
GTGGATTACTGATCGTCTTTTTTCAAATGTATTTATCGT  
+HWI-EAS443:3:51:1500:1816#0/1  
`^baa`baXbab\_]¥b`aba\_baaK`ba]^abba\_bb^`^  
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+HWI-EAS443:3:51:1751:197#0/1  
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@HWI-EAS443:3:51:332:159#0/1  
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+HWI-EAS443:3:51:332:159#0/1  
]abab][]ba`I^\_Saaa]^aXaRb^)`^aaaa¥\_ZQ¥  
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+HWI-EAS443:3:51:335:1050#0/1  
aaa]a`ba`\_aaa]aa`¥aaaa\_a\_aa^^`[U^aab^  
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GCCTACCAGAAGCGAATGGGAGTGCAGATGCAGCGATTCA  
+HWI-EAS443:3:51:347:1322#0/1  
abaaa\_a[b`\_babTaaaa]bZVaaa`^`^`ab\_b`\_a\_\_  
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AAGCAGCTTCTGTGGTCACTGTTCCCATCCTGTTGTATAT  
+HWI-EAS443:3:51:347:727#0/1  
aaZa`\_aaa`\_bUP^[¥b^\_a¥[Q\_\_[]\_¥aa`\_a^¥\_¥V  
@HWI-EAS443:3:51:348:1551#0/1  
GCAATCTGTTCAAGTGGCACACACTAGACCAAAGCAG  
+HWI-EAS443:3:51:348:1551#0/1  
a\_]`aaaZ\_aS]\_`X`XES^`Z¥Y[^a^Xa\_¥a\_a¥YU¥\_  
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+HWI-EAS443:3:51:375:53#0/1  
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+HWI-EAS443:3:51:505:98#0/1  
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+HWI-EAS443:3:51:544:1081#0/1  
aabaaababababaaaaa\_ba`abaaaabaaa`a`a\_^`a  
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TGGGCCTCATATACAACAGGATGGGAACAGTGACCACAGA  
+HWI-EAS443:3:51:558:1159#0/1  
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+HWI-EAS443:3:51:637:1491#0/1  
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@HWI-EAS443:3:51:665:241#0/1  
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+HWI-EAS443:3:51:665:241#0/1  
abbabbbbabbaaabbbbabaaa\_aaab`baabaa\_a  
@HWI-EAS443:3:51:887:2032#0/1  
GACCGATGCTGTGAATCAGCAATCTGTTCAACAAGTGGCAC  
+HWI-EAS443:3:51:887:2032#0/1  
\_bbabbbabbaabbbbaaabab`\_a^\_aaba\_a]S`¥  
@HWI-EAS443:3:52:1010:1155#0/1  
CTGATCGCTTTTTTTCAAATGTATTTATCGTCGCTTTAA  
+HWI-EAS443:3:52:1010:1155#0/1  
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CTAGCACTACGGCAAAGGCTATGGAACAGATGGCTGGATC  
+HWI-EAS443:3:52:1052:431#0/1  
abba\_babb`ba`a`\_ab\_aaa``¥`\_aa[\_¥^S]aa¥[W  
@HWI-EAS443:3:52:1054:1619#0/1  
CATATACAACAGGATGGGAACAGTGACCACAGAAGCTGCT  
+HWI-EAS443:3:52:1054:1619#0/1  
\_Z¥aZ0]W\_¥`\_[WY\_Z[WS]¥YL\_] ^XSQT¥ZV¥[UVYZ  
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+HWI-EAS443:3:52:108:1718#0/1  
aa`^ [X`]]R¥Q¥QNWUaZZU^U^PN]]UOZWQZTVXJMI  
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GACCGATGCTGTGAATCAGCAATCTGTTCAACAAGTGGCAC  
+HWI-EAS443:3:52:1199:1217#0/1  
a`^`^`a````[a`````¥\_\_\_Wa```W\_W``¥W\_¥¥`Z  
@HWI-EAS443:3:52:1230:1563#0/1  
CAAGATTGGTCTTGTCTTTAGCCATTCCATGAGAGCCTCA  
+HWI-EAS443:3:52:1230:1563#0/1  
aabb]ab^V``bbb`\_abaZYOWY^aT^P\_]\_^] ^X]`a  
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CATTTGAAAAAAGACGATCAGTAATCCACAATATCAGGT  
+HWI-EAS443:3:52:1269:1246#0/1  
`bbbbbbbbbbbaabbVQ^[RTXLYZUYa^TZ]S[Z[G  
@HWI-EAS443:3:52:1600:908#0/1  
TGCAGATGCAGCGATTCAAGTGATCCTCTCGTCATTGCAG  
+HWI-EAS443:3:52:1600:908#0/1  
`][Z`Z`\_ ^X[aVR¥^```]`^]\_^] ^PXU\_\_``\_SUU  
@HWI-EAS443:3:52:170:867#0/1  
GGGCCTCATATACAACAGGATGGGAACAGTGACCACAGAA  
+HWI-EAS443:3:52:170:867#0/1  
a]X`G\_aaaU\_\_aaX]P`\_VXaaa^[UaaTa]\_X\_\_[\_`Z^  
@HWI-EAS443:3:52:207:1720#0/1  
AATCAGACTAGGCAGATGGTACATGCAATGAGAACTATTG  
+HWI-EAS443:3:52:207:1720#0/1  
aabbaaaaaba`aa`aaaa[\_^a]a\_^a`a\_a\_\_```a\_¥

@HWI-EAS443:3:52:221:439#0/1  
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+HWI-EAS443:3:52:221:439#0/1  
abbaaab`aaaab^\_aaaa`a`\_a¥\_`aaaaa[\_\_\_  
@HWI-EAS443:3:52:306:955#0/1  
CAAGATTGGTCTTGTCTTTAGCCATTCCATGAGAGCCTCA  
+HWI-EAS443:3:52:306:955#0/1  
``\_a\_abaaYab`^W¥¥\_\_0\_aYZ[a[[^a`Za^¥a]\_\_^  
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GCCTCATATACAACAGGATGGGAACAGTGACCACAGAAGC  
+HWI-EAS443:3:52:360:937#0/1  
a\_``\_b\_a`a\_a¥^a\_\_\_`a¥¥U\_\_¥`¥VT^\_\_a¥W^Y  
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AGAGGATCACTTGAATCGCTGCATCTGCACTCCCATTTCGC  
+HWI-EAS443:3:52:368:1208#0/1  
`^`b\_aSaQUIU)`W`¥SR¥U^T[T\_[a`^HR\_Q]\_XP\_P  
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GCCTACCAGAAGCGAATGGGAGTGCAGATGCAGCGATTCA  
+HWI-EAS443:3:52:384:252#0/1  
a[aa`[`[¥VU`\_`SR\_a`\_¥\_N\_ZZ`ZUZUV`Z]USSNS  
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CTCTCGTCATTGCAGCAAATATCATTGGGATCTTGCACCT  
+HWI-EAS443:3:52:407:1555#0/1  
`¥b`aYS[a^W])`Y^¥R`YH]YOPT)^TZ[Z^Z[U[  
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CCGATGCTGTGAATCAGCAATCTGTTCAACAAGTGGCACAC  
+HWI-EAS443:3:52:491:126#0/1  
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ATCTGTTCAACAAGTGGCACACACTAGACCAAAGCAGCTT  
+HWI-EAS443:3:52:504:824#0/1  
¥abb`\_`Y\_aZ¥Z]Za[Zaab\_TXaa\_a`Y\_]\_\_]aZZa  
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GTGAATCAGCAATCTGTTCAACAAGTGGCACACACTAGACC  
+HWI-EAS443:3:52:506:786#0/1  
aa\_V\_Va¥NU¥XYPTSSW¥NY``HYU^^Y\_T\_PVX`VTQ  
@HWI-EAS443:3:52:519:1522#0/1  
CTTGTGAACAGATTGCTGATTCACAGCATCGGTCTCACAG  
+HWI-EAS443:3:52:519:1522#0/1  
\_`Xa\_`baa[\_]\_aab]XZU^]\_`aa\_a\_\_a]U^]SQJMW  
@HWI-EAS443:3:52:548:647#0/1  
TGGGGCCAAGGAGGTGCTACTAAGCTATTCAACTGGTGCA  
+HWI-EAS443:3:52:548:647#0/1  
aa^aaaa`^ba`aa^a^a`\_aaaa[\_`\_a\_]¥¥`\_¥\_¥\_  
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+HWI-EAS443:3:52:646:698#0/1  
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+HWI-EAS443:3:52:730:1107#0/1  
^a\_]\_`\_UZ\_a][a`]^`^aXXJ^^]a`\_UZa]ZXVHZW^J  
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+HWI-EAS443:3:52:861:629#0/1  
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+HWI-EAS443:3:53:1061:1590#0/1  
a]SK¥aS¥`U`aaVbK`U¥¥b^aYba^W`b]¥Ua`\_Q`bH  
@HWI-EAS443:3:53:1164:549#0/1  
GGGCCTCATATACAACAGGATGGGAACAGTGACCACAGAA  
+HWI-EAS443:3:53:1164:549#0/1  
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@HWI-EAS443:3:53:1252:1575#0/1  
GAGTTGCTAATCAGACTAGGCAGATGGTACATGCAATGA  
+HWI-EAS443:3:53:1252:1575#0/1  
^\_b`]¥\_\_bbabYa`aaab``[a`a[`a`\_TZXZ[b¥XXa  
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+HWI-EAS443:3:53:1282:1340#0/1  
a\_\_baaa`a]Xa\_`R`a`¥R`\_¥aSYa\_``\_¥a^a\_WNTU  
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+HWI-EAS443:3:53:1367:419#0/1  
`bbbb\_S¥baa[`b\_bbabababb\_babba]^\_aa\_]`H  
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ACAGAAGCTGCTTTTGGTCTAGTGTGTGCCACTTGTGAAC  
+HWI-EAS443:3:53:13:862#0/1  
a`b\_\_`T¥\_b``baaba\_a`]ZP\_R]Z][`ZL]a¥¥¥¥[N  
@HWI-EAS443:3:53:1417:1993#0/1  
CACTAAGCTATTCAACTGGTGCACCTGCCAGTTGCATGGG  
+HWI-EAS443:3:53:1417:1993#0/1  
abSbbaabbbb\_]babb\_a`]Sb\_bbb\_a[a`]`\_baaaa  
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+HWI-EAS443:3:53:172:553#0/1  
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@HWI-EAS443:3:53:1758:1561#0/1  
GCTAGCACTACGGCAAAGGCTATGGAACAGATGGCTGGAT  
+HWI-EAS443:3:53:1758:1561#0/1  
a[^aVV\_]a]b]PQP[aaU^L[URYJPKQDIS^U`\_QLN  
@HWI-EAS443:3:53:392:588#0/1  
CTGCTTTTGGTCTAGTGTGTGCCACTTGTGAACAGATTGC  
+HWI-EAS443:3:53:392:588#0/1  
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@HWI-EAS443:3:53:405:911#0/1  
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+HWI-EAS443:3:53:405:911#0/1  
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ACTCGATCCAGCCATCTGTTCCATAGCCTTTGCCGTAGTG  
+HWI-EAS443:3:53:419:981#0/1  
aaaab`^a\_]\_`aaaaa\_`[```a`[]^^^XXZ^NY]W[  
@HWI-EAS443:3:53:434:1850#0/1  
CTTGCACCTGATATTGTGGATTACTGATCGTCTTTTTTTC  
+HWI-EAS443:3:53:434:1850#0/1  
abbabb^\_\_\_ababbaY]\_`bbbbba`aa`[]babaab\_  
@HWI-EAS443:3:53:506:1192#0/1  
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+HWI-EAS443:3:53:506:1192#0/1  
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+HWI-EAS443:3:53:654:271#0/1  
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+HWI-EAS443:3:53:675:1171#0/1  
a^TLZ^`\_aabaY[Zaa\_ZV[\_aWWa]aR``]ZVN]R]^U  
@HWI-EAS443:3:53:703:169#0/1  
GGTTGCTAATCAGACTAGGCAGATGGTACATGCAATGAGA  
+HWI-EAS443:3:53:703:169#0/1  
]`Ybbab[b[¥H`aa`ab\_\_`X\_baMMZ`]^ZZ\_[a^`P  
@HWI-EAS443:3:53:891:572#0/1  
GTCCTGTTCCCATCCTGTTGTATATGAGGCCCATGCAAC  
+HWI-EAS443:3:53:891:572#0/1  
\_[\_^^\_QOXaa\_\_¥¥^^\_Y^^`\_^]VXQ\_UXYZMNU]``T  
@HWI-EAS443:3:53:89:1429#0/1  
CTTGCACCTGATATTGTGGATTACTGATCGTCTTTTTTTC  
+HWI-EAS443:3:53:89:1429#0/1  
abbbbbbabbbabbbb\_ba`abaaaaa`b`\_aaabaaZ  
@HWI-EAS443:3:53:920:909#0/1  
TTGGGATCTTGCACCTGATATTGTGGATTACTGATCGTCT  
+HWI-EAS443:3:53:920:909#0/1  
aa^a`aabbaba`\_\_bb`aabab\_baaaaa``baaaa\_]a  
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GCCTCATATACAACAGGATGGGAACAGTGACCACAGAAGC  
+HWI-EAS443:3:54:1097:1791#0/1  
a`^aaaaaaaaaaa]`aa`\_`aa\_\_``\_V`¥aU`¥\_\_\_\_^¥¥  
@HWI-EAS443:3:54:1192:708#0/1  
GGGGCCAAGGAGGTGTCCTAAGCTATTCAACTGGTGCAC  
+HWI-EAS443:3:54:1192:708#0/1  
a`Ya^^bbb[aaa\_ba\_aaaabaaaaaaaaa\_a^OY]\_aW  
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+HWI-EAS443:3:54:1237:1421#0/1  
aaXPPZZUUUVWZVX[0¥a¥[X\_]\_]PYFV^]ZNZNT¥[[  
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CAAGTGGCACACACTAGACCAAAAGCAGCTTCTGTGGTCA  
+HWI-EAS443:3:54:1278:1430#0/1  
`b\_abbbaabb\_b`abb`^ab[ba`]`\_baZb\_a]a`][  
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+HWI-EAS443:3:54:127:1519#0/1  
a\_U`aabba[b`Yaaa^`aa`\_\_¥]`[[Y`ZY]X^T^L¥\_\_  
@HWI-EAS443:3:54:1295:1714#0/1  
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+HWI-EAS443:3:54:1295:1714#0/1  
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@HWI-EAS443:3:54:1365:1020#0/1  
GTTCCGGTCCCCATTCCCATTTAGGGCATTGTTGGACAAAG  
+HWI-EAS443:3:54:1365:1020#0/1  
`]]`V]]¥\_X`T]]`^^¥`a`\_`^]X¥¥`^^¥`^¥V¥¥¥  
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+HWI-EAS443:3:54:1428:818#0/1  
aaabab`babbb`ab[a`aa`abZaaa\_`a\_¥¥\_`b^[T`  
@HWI-EAS443:3:54:15:138#0/1  
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+HWI-EAS443:3:54:15:138#0/1  
a[[G[a\_]\_[a\_[KY\_\_[S`\_`U]RRVNOSWSV¥VXZVVV  
@HWI-EAS443:3:54:1603:1016#0/1  
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+HWI-EAS443:3:54:1603:1016#0/1  
aZ[\_a\_b¥`b`aa\_a\_`\_`\_\_aaa`Q\_\_\_\_`Wa``[``]a  
@HWI-EAS443:3:54:1674:1315#0/1  
CACACTAGACCAAAAGCAGCTTCTGTGGTCACTGTTCCCA  
+HWI-EAS443:3:54:1674:1315#0/1  
¥a\_S]\_babab\_Z]\_a\_baabb`\_T^bY\_bb`abaa[b``  
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TCCCAATGATATTTGCTGCAATGACGAGAGGATCACTTGA  
+HWI-EAS443:3:54:234:1996#0/1  
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+HWI-EAS443:3:54:343:509#0/1  
abbbbbbbbabaaaababaaaabaaaabaab`ba\_ba¥^a  
@HWI-EAS443:3:54:368:56#0/1  
GCCTCATATACAACAGGATGGGAACAGTGACCACAGAAGC  
+HWI-EAS443:3:54:368:56#0/1  
a\_¥`\_aa`aa\_\_¥^aa¥^``¥¥¥¥`Y\_`¥¥¥W¥`YY^U  
@HWI-EAS443:3:54:42:358#0/1  
GATCCCAATGATATTTGCTGCAATGACGAGAGGATCACTT  
+HWI-EAS443:3:54:42:358#0/1  
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@HWI-EAS443:3:54:642:1418#0/1  
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+HWI-EAS443:3:54:642:1418#0/1  
aaaa\_ZYbaaaZ]URaa\_]aa^a\_Z¥`¥XZ``V`^Za\_  
@HWI-EAS443:3:54:769:504#0/1  
GCCTCATATACAACAGGATGGGAACAGTGACCACAGAAGC  
+HWI-EAS443:3:54:769:504#0/1  
a\_abaabaaaaa`\_aa\_a¥aa\_] [``Waa\_[`\_\_a¥^a[  
@HWI-EAS443:3:54:803:684#0/1  
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+HWI-EAS443:3:54:803:684#0/1  
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@HWI-EAS443:3:54:812:1614#0/1  
ATGGGCTCATATACAACAGGATGGGAACAGTGACCACAG  
+HWI-EAS443:3:54:812:1614#0/1  
`a``\_Xaaabb\_\_a`a`\_]a¥`X``^`^\_[`Sa`\_\_\_\_^`^`\_  
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CAGTGACCACAGAAGCTGCTTTTGGTCTAGTGTGTGCCAC  
+HWI-EAS443:3:54:980:831#0/1  
a`\_Sbba^`\_YaaZaa`¥^\_a¥]URV[aa[a[\_`\_Y`ZR  
@HWI-EAS443:3:54:995:1209#0/1  
CACTAGACCAAAAAGCAGCTTCTGTGGTCACTGTTCCCATC  
+HWI-EAS443:3:54:995:1209#0/1  
U\_¥¥WaZY\_^YM`bb]bZ\_[W¥\_HZ]\_\_\_¥b\_W\_ab[U`S  
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CCAAAAGCAGCTTCTGTGGTCACTGTTCCCATCCTGTTGT  
+HWI-EAS443:3:55:1020:1185#0/1  
aa]`\_``^`^aaa\_[^`aaa¥aa`\_`[a¥ZZV[[Z\_Z[aZV  
@HWI-EAS443:3:55:1022:1871#0/1  
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+HWI-EAS443:3:55:1022:1871#0/1  
]`XWYb`Xbab^bZaZ]b\_[D[\_Sa`Zab```[a]aZ`\_\_  
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GAATCAGCAATCTGTTCCACAAGTGGCACACACTAGACCAA  
+HWI-EAS443:3:55:113:832#0/1  
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@HWI-EAS443:3:55:1171:288#0/1  
ATACAACAGGATGGGAACAGTGACCACAGAAGCTGCTTTT  
+HWI-EAS443:3:55:1171:288#0/1  
ab`aaa]aab\_\_a`^a`\_a[a`\_] [\_\_a\_\_Z^`X^]\_`  
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GGAGGTTGCTAATCAGACTAGGCAGATGGTACATGCAATG  
+HWI-EAS443:3:55:1191:718#0/1  
^aZ`\_Q`b]``a¥V]a`a\_¥a]¥¥]X[Y`Z^X[[¥R¥V¥X  
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+HWI-EAS443:3:55:1216:920#0/1  
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+HWI-EAS443:3:55:1232:1012#0/1  
`Y`ZRQ¥bW¥a\_ab`[aabaXS¥`[]bb^SUaaa`Y][R  
@HWI-EAS443:3:55:1248:1538#0/1  
CTTCTTGAAAATTTGCAGGCCTACCAGAAGCGAATGGGAG  
+HWI-EAS443:3:55:1248:1538#0/1  
^X]\_]UU`baa`¥^¥Y`[XaaPSPY]¥Xa^aa\_`^Z`\_`  
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+HWI-EAS443:3:55:1311:662#0/1  
abaa`babababaaaa`aababaaaaa`a\_a\_aaa]a`  
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+HWI-EAS443:3:55:161:1842#0/1  
aa`a\_baa`aa`a\_\_a`\_Ua\_`\_`Z\_\_`\_\_\_\_]`Y^\_^`^U  
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+HWI-EAS443:3:55:20:370#0/1  
ZbbZZZTaK\_[`R^`ba]`T¥]baZM¥ZV\_Naa¥]a`a`^  
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GAGACCGATGCTGTGAATCAGCAATCTGTTCAAGTGGC  
+HWI-EAS443:3:55:260:1129#0/1  
aaaa`a^^`a\_a^a]¥^^Z]\_\_]\_¥\_QZVW^X[UYT^\_U  
@HWI-EAS443:3:55:293:457#0/1  
CTGGCTAGCACTACGGCAAAGGCTATGGAACAGATGGCTG  
+HWI-EAS443:3:55:293:457#0/1  
a`baaaaaab`a^`a]X¥a`]^`^\_`]^`a^\_YYZPX^[QP^  
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CACACACTAGACCAAAAGCAGCTTCTGTGGTCACTGTTCC  
+HWI-EAS443:3:55:317:535#0/1  
abaaa^`aabaa\_aY^a\_^\_a`aaaaV^`]\_\_\_\_aY]]^  
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GGGAGTGCAGATGCAGCGATTCAAGTGATCCTCTCGTCAT  
+HWI-EAS443:3:55:36:1728#0/1  
aaa\_aYaa\_\_\_\_\_^^^\_a^^`\_`\_[Y^\_]Y]\_\_[VZ]]^  
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CTAGTGTGTGCCACTTGTGAACAGATTGCTGATTCACAGC  
+HWI-EAS443:3:55:373:1287#0/1  
a\_I¥\_U]`]WZQTTZWYaWaa\_VZTYWWWVIUTTSYa^P`  
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+HWI-EAS443:3:55:411:298#0/1  
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+HWI-EAS443:3:55:432:1582#0/1  
`U¥`bb\_WW``Y`\_Z[¥Y^TVYY¥b¥¥\_\_Y`bb\_W[`a

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CTTCTTGAAAATTTGCAGGCCTACCAGAAGCGAATGGGAG  
+HWI-EAS443:3:55:443:1862#0/1  
abbbbaabbababaaaba`a\_`aaaaa\_¥a\_aa\_\_\_a  
@HWI-EAS443:3:55:490:414#0/1  
ATACATTTGAAAAAAGACGATCAGTAATCCACAATATCA  
+HWI-EAS443:3:55:490:414#0/1  
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+HWI-EAS443:3:55:491:1253#0/1  
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+HWI-EAS443:3:55:52:332#0/1  
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+HWI-EAS443:3:55:531:788#0/1  
aaabaaa`aaa`[a^`^`\_^^¥\_W¥]\_^`¥ZTZ`\_WZ  
@HWI-EAS443:3:55:538:1410#0/1  
AAATGGGAATGGGGACCCGAACAACATGGATAGAGCAGTT  
+HWI-EAS443:3:55:538:1410#0/1  
aba[`]RR^aa````[^UXSTN¥]\_a`]]`a`X\_SYNOQ  
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+HWI-EAS443:3:55:728:471#0/1  
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+HWI-EAS443:3:55:87:146#0/1  
\_bb\_^`aZ^`ba]`^UW\_`^^OUV^[Z[L\_YPQVKZY¥  
@HWI-EAS443:3:55:899:590#0/1  
GGGAGTGCAGATGCAGCGATTCAAGTGATCCTCTCGTCAT  
+HWI-EAS443:3:55:899:590#0/1  
aa\_N`T\_Z\_ZUZ\_VT`Ta\_RU[[^J^XYOFWPWVULMVQ  
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+HWI-EAS443:3:55:925:549#0/1  
aab`abababbb`aa`\_ba\_\_baa\_a\_`a¥ba`\_`U]a``  
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CAAGATTGGTCTTGTCTTTAGCCATTCCATGAGAGCCTCA  
+HWI-EAS443:3:55:951:331#0/1  
a\_b\_\_bbab]a`bb[^aaaXaa`a\_Y^a]aa]]`a\_[a^\_  
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ACAAGATTGGTCTTGTCTTTAGCCATTCCATGAGAGCCTC  
+HWI-EAS443:3:55:998:414#0/1  
S\_¥`aV`^aaV^\_bba]ab^a]]aaa^RY`^a^Y[aa]a\_  
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+HWI-EAS443:3:56:1005:1634#0/1  
abb]bab`a`aab¥\_NW`a]W` `a[VZZ]Waa`aa`aYaa  
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`bababa`a\_aba\_`¥`b\_abaa\_\_abaaba\_`baa\_a\_  
@HWI-EAS443:3:56:1054:149#0/1  
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+HWI-EAS443:3:56:1054:149#0/1  
abaaababab`ab`a`\_abaa^a\_a\_\_a`a`\_aa¥`\_¥]W  
@HWI-EAS443:3:56:1076:1767#0/1  
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+HWI-EAS443:3:56:1076:1767#0/1  
¥WV^¥QZ[a^`\_^[MX`N`aaa]]Ya]`XTRNOU\_]Z^  
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+HWI-EAS443:3:56:1149:1284#0/1  
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+HWI-EAS443:3:56:1152:810#0/1  
a\_aa`aaaaa\_a` `\_\_\_\_`^\_¥` `\_\_\_\_[[[¥`^^^¥^\_U  
@HWI-EAS443:3:56:117:1562#0/1  
TACTGATCGTCTTTTTTTCAAATGTATTTATCGTCGCTTT  
+HWI-EAS443:3:56:117:1562#0/1  
aba`XQ^`\_a`a¥aaaab``^P`X[\_`a```TXY\_a]`Y`  
@HWI-EAS443:3:56:123:698#0/1  
GATCACTTGAATCGCTGCATCTGCACTCCCATTGCTTCT  
+HWI-EAS443:3:56:123:698#0/1  
a\_aa^abbbbbbbbaaaaaab\_aa`a\_aa\_^^^a`\_^``^  
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+HWI-EAS443:3:56:1398:1205#0/1  
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+HWI-EAS443:3:56:1538:242#0/1  
a\_0[VST^`Z`Z`\_VPWZ¥0Y¥^T\_` `S[RWJRTWRW]TB  
@HWI-EAS443:3:56:173:65#0/1  
CAGTGACCACAGAAGCTGCTTTTGGTCTAGTGTGTGCCAC  
+HWI-EAS443:3:56:173:65#0/1  
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@HWI-EAS443:3:56:199:1498#0/1  
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+HWI-EAS443:3:56:199:1498#0/1  
Yaa^\_¥\_bb\_[a[\_\_aba\_a\_¥]¥¥¥Zaa[S\_`^`Z`\_^¥  
@HWI-EAS443:3:56:238:507#0/1  
CAGCAATCTGTTCAACAAGTGGCACACACTAGACCAAAAGC  
+HWI-EAS443:3:56:238:507#0/1  
a\_bb[YbbbbZbbaa]ab¥baaaa`aaaa\_]aaaa]a`^

@HWI-EAS443:3:56:347:247#0/1  
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ab`bZ\_bb\_bab\_\_aa`\_a`\_¥aXR[SZ\_UUPY\_]W^W  
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+HWI-EAS443:3:56:378:1576#0/1  
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+HWI-EAS443:3:56:395:990#0/1  
V\_I^bYbbb¥`bab^ab\_\_baZaaaaabZba`T\_`Waaa  
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+HWI-EAS443:3:56:494:444#0/1  
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+HWI-EAS443:3:56:668:1027#0/1  
]W\_^a\_¥^QR¥\_WY]]]]]ZP[\_X^]YZV][Z`[\_Q¥[Z  
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+HWI-EAS443:3:56:756:1658#0/1  
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@HWI-EAS443:3:56:997:901#0/1  
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+HWI-EAS443:3:56:997:901#0/1  
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+HWI-EAS443:3:56:99:1663#0/1  
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@HWI-EAS443:3:57:1024:991#0/1  
GGCAGATGGTACATGCAATGAGAACTATTGGGACTCATCC  
+HWI-EAS443:3:57:1024:991#0/1  
aa\_XV[\_aRSW]a\_\_`V\_Z¥T\_G^N\_W\_]\_\_\_\_¥Z\_N^\_VV  
@HWI-EAS443:3:57:102:254#0/1  
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+HWI-EAS443:3:57:102:254#0/1  
[\_[b`aXSUba`baaZbV^X\_^Z`U[HbX[a\_\_YFTR^W]  
@HWI-EAS443:3:57:1030:1469#0/1  
GAACAGTGACCACAGAAGCTGCTTTTGGTCTAGTGTGTGC  
+HWI-EAS443:3:57:1030:1469#0/1  
a\_a\_Y\_P^]ZZ^^`]`\_TY]Y¥¥Z^VX[SZ][VSUUQZVZ  
@HWI-EAS443:3:57:1116:1132#0/1  
GACCACAGAAGCTGCTTTTGGTCTAGTGTGTGCCACTTGT

+HWI-EAS443:3:57:1116:1132#0/1  
aa[X`a`a`\_\_\_\_`Y`\_`\_^^Z[U^\_V^S\_Q\_[W[T[QLR  
@HWI-EAS443:3:57:1287:894#0/1  
CTGATATTGTGGATTACTGATCGTCTTTTTTTCAAATGTA  
+HWI-EAS443:3:57:1287:894#0/1  
abbabbbbabbabbbabbaa^b`]abbbabaaaaab^a  
@HWI-EAS443:3:57:131:544#0/1  
CACCTCCTTGGCCCCATGGAACGTTATTTCTCTTTTGAGC  
+HWI-EAS443:3:57:131:544#0/1  
aV`baa`bY¥b]Ta^aXP]\_`b¥RNUbaa`P`aa]GN`^  
@HWI-EAS443:3:57:1401:2017#0/1  
AGATGACCTTCTTGAAAATTTGCAGGCCTACCAGAAGCGA  
+HWI-EAS443:3:57:1401:2017#0/1  
`aaa\_\_\_\_a\_Naa`¥`a\_a`aP¥¥\_U¥^a[W\_\_\_\_]]^GYB  
@HWI-EAS443:3:57:1481:1347#0/1  
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+HWI-EAS443:3:57:1481:1347#0/1  
]\_Y[[a¥ZaaTa`b`[\_aS^^\_S`]``\_YaWU`¥V`b^  
@HWI-EAS443:3:57:1604:1676#0/1  
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+HWI-EAS443:3:57:1604:1676#0/1  
U\_bba`[¥`b`V`b\_XaaaaaX]W\_Z\_U`X`Y``]Z]O  
@HWI-EAS443:3:57:1651:969#0/1  
CAAGATTGGTCTTGTCTTTAGCCATTCCATGAGAGCCTCA  
+HWI-EAS443:3:57:1651:969#0/1  
`b`bY[R¥]V`aba[\_bb`aaXa\_a`Sa`ab`\_XaSX][U  
@HWI-EAS443:3:57:178:477#0/1  
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+HWI-EAS443:3:57:178:477#0/1  
aa`aab`baaa`Uaaa\_\_`a\_\_\_\_aWa^W`^\_\_W\_a`Y^  
@HWI-EAS443:3:57:219:1056#0/1  
ATACATTTGAAAAAAGACGATCAGTAATCCACAATATCA  
+HWI-EAS443:3:57:219:1056#0/1  
aa^`¥¥aa^\_ZZV]]a¥[^YaWSHUUSWS]¥Z\_[GJUBBB  
@HWI-EAS443:3:57:251:1449#0/1  
ATCTTGCACCTGATATTGTGGATTACTGATCGTCTTTTTT  
+HWI-EAS443:3:57:251:1449#0/1  
Z^a`aababbaa]L^Wba^aaaaaaaa^`\_ZZ\_a^^aba  
@HWI-EAS443:3:57:337:665#0/1  
CACTCCCATTGCTTCTGGTAGGCCTGCAAATTTTCAAGA  
+HWI-EAS443:3:57:337:665#0/1  
aaaaabZJXYa[\_a¥S\_\_P]\_¥PVP\_a^^J`\_`\_\_\_\_^J]^  
@HWI-EAS443:3:57:35:865#0/1  
TGTTCCGGTCCCCATTCCCATTTAGGGCATTGTTGGACAAA  
+HWI-EAS443:3:57:35:865#0/1  
ab`aaaa¥aaa`aaa``````a\_aa\_\_a``\_a`^[\_`^V  
@HWI-EAS443:3:57:439:869#0/1  
GCTGCATCTGCACTCCCATTGCTTCTGGTAGGCCTGCAA  
+HWI-EAS443:3:57:439:869#0/1  
`\_O[¥¥W`^^`¥W[] [P¥]]]ZMY^XY[S[YVQ\_[SXVY

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+HWI-EAS443:3:57:454:1819#0/1  
¥S`WS^`a\_\_U\_X\_\_LSTaZXZT^OT^VX]\_Z]IW\_BBBB  
@HWI-EAS443:3:57:588:1406#0/1  
GATATTTGCTGCAATGACGAGAGGATCACTTGAATCGCTG  
+HWI-EAS443:3:57:588:1406#0/1  
aaaaaaaaa]^a``a`a`^^a^^]ZZ`^`a¥a`\_Y¥^`\_`  
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CAAATATCATTGGGATCTTGCACCTGATATTGTGGATTAC  
+HWI-EAS443:3:57:708:196#0/1  
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+HWI-EAS443:3:57:739:1933#0/1  
`^a`aaaa^^^[¥^`aa^a`¥^`\_`a¥`\_\_`\_\_\_¥¥^`\_ZW  
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+HWI-EAS443:3:57:81:874#0/1  
abbababHb`Yaaa]a`bb\_`XNZ[QQ^]¥X^¥YUU]Y¥  
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+HWI-EAS443:3:57:861:1482#0/1  
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@HWI-EAS443:3:57:876:1543#0/1  
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+HWI-EAS443:3:57:876:1543#0/1  
`bbaba`a\_ba`U^^^b\_aa`aaaaZ\_bbaabXa\_`^`\_a  
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+HWI-EAS443:3:57:894:1062#0/1  
a`bb`\_\_aba\_a`^ba^`\_\_WaYaVa[\_aaa`^a`\_\_aV  
@HWI-EAS443:3:57:957:1653#0/1  
CTTGAATCGCTGCATCTGCACTCCCATTGCTTCTGGTAG  
+HWI-EAS443:3:57:957:1653#0/1  
`\_¥aa]\_¥baabZbaa`]WZa`XD0\_\_T^a`^XX[a¥T[Z  
@HWI-EAS443:3:57:95:1642#0/1  
CAAGATCTGTGTTCTTTCCTGCAAAGACACTTTCCAGTCT  
+HWI-EAS443:3:57:95:1642#0/1  
`a`\_]bbb\_`\_a`ab`b`a¥`\_`^Y```baa]a[`aY]V`  
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+HWI-EAS443:3:58:1105:881#0/1  
Va¥[Z\_\_Y[b\_ZRVXYJ0aaZSUOWWZZS^VXOYNVYV][  
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ACCTGATATTGTGGATTACTGATCGTCTTTTTTTCAAATG  
+HWI-EAS443:3:58:1109:75#0/1  
a¥aaa`baabb`ba¥aaa`ab`a\_`a^aababb`^^`[\_a  
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+HWI-EAS443:3:58:1229:294#0/1  
`^aaa\_`¥]\_a^^a^a^[aa``[aUaT¥`^[[QZ]S\_Z  
@HWI-EAS443:3:58:1256:1316#0/1  
ATCTTGTCACCTCTGACTAAGGGAATTTTAGGATTTGTGT  
+HWI-EAS443:3:58:1256:1316#0/1  
aa\_aaS`a\_]a\_a`\_`\_]a\_a^\_a`a`\_`\_`\_`^`a¥a^  
@HWI-EAS443:3:58:1263:1905#0/1  
AAATACATTTGAAAAAAGACGATCAGTAATCCACAATAT  
+HWI-EAS443:3:58:1263:1905#0/1  
aaaaaabaaaaaaaaaaaa`[aa`S\_]S\_\_OFV^[[[Z\_X  
@HWI-EAS443:3:58:1379:731#0/1  
GACGAGAGGATCACTTGAATCGCTGCATCTGCACTCCCAT  
+HWI-EAS443:3:58:1379:731#0/1  
aa\_]`^aa\_a^\_XXVaa[]a\_^^^\_`\_a`ZYY¥\_Y^¥¥UW`  
@HWI-EAS443:3:58:1478:1409#0/1  
ATCCCAATGATATTTGCTGCAATGACGAGAGGATCACTTG  
+HWI-EAS443:3:58:1478:1409#0/1  
¥[Y]abbaba`aab\_R`Z`\_aaa\_aa[`aa`[\_¥[¥a`  
@HWI-EAS443:3:58:1567:1337#0/1  
CTAGTGTGTGCCACTTGTGAACAGATTGCTGATTCACAGC  
+HWI-EAS443:3:58:1567:1337#0/1  
aa`a[`^`^aa`a^abb^`bab`abbb^bbababbaaa\_  
@HWI-EAS443:3:58:161:547#0/1  
CGATGCTGTGAATCAGCAATCTGTTCACAAGTGGCACACA  
+HWI-EAS443:3:58:161:547#0/1  
aaa`aab^aa`a`a`\_]\_aX\_\_\_\_]\_^U\_V\_\_\_\_]^X[  
@HWI-EAS443:3:58:221:1484#0/1  
GACCGATGCTGTGAATCAGCAATCTGTTCACAAGTGGCAC  
+HWI-EAS443:3:58:221:1484#0/1  
ab`b]aaaaaa^a`a^aa`\_\_aa`^`^[\_XZa\_VU\_^\_a^  
@HWI-EAS443:3:58:23:362#0/1  
CAGCGATTCAAGTGATCCTCTCGTCATTGCAGCAAATATC  
+HWI-EAS443:3:58:23:362#0/1  
abaab`a\_a\_\_aVOZ¥XVY`aQaZ`\_¥^a¥LZ`VGTUU[P  
@HWI-EAS443:3:58:341:1759#0/1  
CTTTTTTTCAAATGTATTTATCGTCGCTTTAAATACGGTT  
+HWI-EAS443:3:58:341:1759#0/1  
aa```abaaaa\_a\_\_^a`^]`^`[ZX¥\_\_`^]`^`^XT[[[\_  
@HWI-EAS443:3:58:371:1942#0/1  
CAAGATTGGTCTTGTCTTTAGCCATTCCATGAGAGCCTCA  
+HWI-EAS443:3:58:371:1942#0/1  
```]`^b`¥HaT^a\_\_P]\_]\_]\_aa\_\_abRGJ^^`\_¥FW`  
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+HWI-EAS443:3:58:391:1207#0/1
a[¥b`aaaa`ab`]T^`Xaa]_¥`a`]`_]a]__a]YY^Y
@HWI-EAS443:3:58:45:1542#0/1
CGCAGAGACTGGAAAGTGTCTTTGCAGGAAAGAACACAGA
+HWI-EAS443:3:58:45:1542#0/1
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+HWI-EAS443:3:58:460:308#0/1
aaa`]a]aa_^a^W_aX[Y[P^YZ[ZU¥TTTTXQUV[V
@HWI-EAS443:3:58:471:792#0/1
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+HWI-EAS443:3:58:471:792#0/1
aaaaabaaaaaaaa`aaa_a_a__`a`a`aWa_``_`a[`
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TGGGAGTGCAGATGCAGCGATTCAAGTATCCTCTCGTCA
+HWI-EAS443:3:58:486:544#0/1
abbbb]Zbaaaaabaababaa``_`bZab]``_`aaa¥__
@HWI-EAS443:3:58:48:1189#0/1
CTGTTCACAAGTGGCACACACTAGACAAAAGCAGCTTCT
+HWI-EAS443:3:58:48:1189#0/1
aab^`bba[a_^`aaaa_```[^____P[``ZU[____]]_
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+HWI-EAS443:3:58:506:1313#0/1
^`UYa[ba`_aa¥W_abab¥]¥a`aUYSaabbab`]J`S¥
@HWI-EAS443:3:58:601:147#0/1
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+HWI-EAS443:3:58:601:147#0/1
abbbabbbbabbaabaabbabab`abaabbbbaaaaaab_
@HWI-EAS443:3:58:622:662#0/1
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+HWI-EAS443:3:58:622:662#0/1
aaa]Z_bba]^aaa_`^a]aa_`a_`^a]^a^`^a` [
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AGCTTCTGTGGTCACTGTTCCCATCCTGTTGTATATGAGG
+HWI-EAS443:3:58:624:1094#0/1
`^b`aa^aa]a_Z__^baaabbaa`^a^ZOZ__a]Y_]W
@HWI-EAS443:3:58:63:1254#0/1
CTTAGTCAGAGGTGACAAGATTGGTCTTGTCTTTAGCCAT
+HWI-EAS443:3:58:63:1254#0/1
abbaa^b^b``aYaaa[_a]aa`a^ab`]`aaaa`¥[_``
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TGTGAGACCGATGCTGTGAATCAGCAATCTGTTCACAAGT
+HWI-EAS443:3:58:720:107#0/1
abababaaaa_a`aa_aaa`_`aZ^__[aa_^[^Z^_aW
@HWI-EAS443:3:58:922:85#0/1
GGATCTTGCACCTGATATTGTGGATTACTGATCGTCTTTT
+HWI-EAS443:3:58:922:85#0/1
^b_VZb`^`_`]`a__YV`¥R`a^`[ZP`aX__`LN``__
@HWI-EAS443:3:58:923:1474#0/1
GTGACCACAGAAGCTGCTTTTGGTCTAGTGTGTGCCACTT
+HWI-EAS443:3:58:923:1474#0/1
aHSIZ]X^TR_a_aa_`_X_[RVZSZ]_RPVS^_[N]]^Z
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CTGCTTTTGGTCTAGTGTGTGCCACTTGTGAACAGATTGC

+HWI-EAS443:3:59:1011:816#0/1
`a_W`[^a_]Y]XZZQ[¥_W[TVa_T^^^]_PZa`JF[XS
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+HWI-EAS443:3:59:106:323#0/1
ab`Ya`b`aaa_aa_R^aV_aa_a_[aN`Y_VL[_W
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GACCGATGCTGTGAATCAGCAATCTGTTCAAGTGGCAC
+HWI-EAS443:3:59:1150:81#0/1
aa^aaaaa`b`a`aa`_]_¥_¥a_aa[aZ^_ZX]U[Q¥TQ
@HWI-EAS443:3:59:1298:595#0/1
GCTCTATCCATGTTGTTCCGGTCCCCATTCCCATTAGGG
+HWI-EAS443:3:59:1298:595#0/1
aabaaaa`_`abaaa`aaaa^Ya`a`_]_aaaaQ`a`WT`^Z
@HWI-EAS443:3:59:1409:749#0/1
GCGCAGAGACTGGAAAGTGTCTTTGCAGGAAAGAACACAG
+HWI-EAS443:3:59:1409:749#0/1
`aa`^^^a¥¥a[¥a`aS[Y¥___a`]a`_]_Z_¥_QTWYW
@HWI-EAS443:3:59:140:1295#0/1
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+HWI-EAS443:3:59:140:1295#0/1
^_^ab¥bb`_]`bZaa`b`a_a^Y¥a¥¥][`[WV]UN]OR
@HWI-EAS443:3:59:1484:1240#0/1
GGAGGTTGCTAATCAGACTAGGCAGATGGTACATGCAATG
+HWI-EAS443:3:59:1484:1240#0/1
aa`a__a]aaaa_ab`aaaa^)``abaWYG]]][LR_]V
@HWI-EAS443:3:59:148:895#0/1
GAGAGGATCACTTGAATCGCTGCATCTGCACTCCCATTCTG
+HWI-EAS443:3:59:148:895#0/1
a_^abbaabaaa`abaaaa`aaaa`aaX`__^`Y]^ZZ
@HWI-EAS443:3:59:1545:1164#0/1
CAGCAATCTGTTCAAGTGGCACACACTAGACCAAAAGC
+HWI-EAS443:3:59:1545:1164#0/1
Q[a_bbbbaabba¥`b`[R¥Z_Z`b`^Wb]_U_U[]WX
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+HWI-EAS443:3:59:1565:1490#0/1
a¥OX`V[a_`¥[`WNVa]`a`[`a^a`a^`a`_TOXY[
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GAACAGTGACCACAGAAGCTGCTTTTGGTCTAGTGTGTGC
+HWI-EAS443:3:59:1631:147#0/1
aaa_aa^aa`^`_aaaa___`^`_a__X]Z`V^]]YTVSS
@HWI-EAS443:3:59:1737:111#0/1
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+HWI-EAS443:3:59:1737:111#0/1
abaab`a_aabaa__bb_a`bbb]b``aaa`_a`_XP¥Y_
@HWI-EAS443:3:59:1762:464#0/1
TGTATAGTTTAACTGCTCTATCCATGTTGTTCCGGTCCCC
+HWI-EAS443:3:59:1762:464#0/1
ab`abababbbbaaaab`aaa_]a``abbaaY]`WT^VU

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+HWI-EAS443:3:59:1766:473#0/1
aRZ_[R^¥aaa`^`[]]^YVTX¥Wxa_`]]N]WVSJQQO
@HWI-EAS443:3:59:279:189#0/1
CCGATGCTGTGAATCAGCAATCTGTTCAACAAGTGGCACAC
+HWI-EAS443:3:59:279:189#0/1
abb__baaba_a^a_`_^¥aa`aa_a¥J]`XXV[[NV^__
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+HWI-EAS443:3:59:38:127#0/1
aaaa_aa`aaa^a_^[`a`W_aa¥HNSUWKVWW[PWP[VT
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+HWI-EAS443:3:59:40:150#0/1
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CTGGCAAGTGCACCAGTTGAATAGCTTAGTGACACCTCCT
+HWI-EAS443:3:59:458:684#0/1
aXaa_bZ`[RYTVa]`Z^R]V^W]_a_TZ_a[[¥PHPKYQ
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GGGCCAAGGAGGTGCTACTAAGCTATTCAACTGGTGCCT
+HWI-EAS443:3:59:461:16#0/1
abbaaXV`baab_b¥aaaaaaa_^Xaa`^TVZa_QZSZW¥
@HWI-EAS443:3:59:50:1538#0/1
GGTACATGCAATGAGAACTATTGGGACTCATCCTAGCTCC
+HWI-EAS443:3:59:50:1538#0/1
¥VO_PXH_¥a^^`¥`^X_R[^P[`a^[[`_TRO_aRQ]VL
@HWI-EAS443:3:59:677:1649#0/1
ATTCCCTTAGTCAGAGGTGACAAGATTGGTCTTGTCTTTA
+HWI-EAS443:3:59:677:1649#0/1
Z[VaQa]b]a¥a_X^`^0¥^Y^_a_a[a][a_X[ZUQX[R
@HWI-EAS443:3:59:704:1780#0/1
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+HWI-EAS443:3:59:704:1780#0/1
[bb_MXZbaaabZVZ^`_aTKX¥``aa_a`ZRZQYXY^UZ
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+HWI-EAS443:3:59:823:549#0/1
__¥^]^^^aaaaZa^^``baa`abaabaaaa]^_]MJ¥]_
@HWI-EAS443:3:59:85:1764#0/1
CGAGAGGATCACTTGAATCGCTGCATCTGCACTCCCATTC
+HWI-EAS443:3:59:85:1764#0/1
`]]`bbba_]a`__Z_a^^`bab`bbb`b^^Gabaa^`_V
@HWI-EAS443:3:59:878:107#0/1
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+HWI-EAS443:3:59:878:107#0/1
`Y^baabbbb_b_a¥aaa`b`ab`a`ba`ab¥^[[WW^^T
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GGCCTCATATACAACAGGATGGGAACAGTGACCACAGAAG

+HWI-EAS443:3:59:915:600#0/1
^aXXY_W[ba_W`YX`b^[^¥¥W¥` `[L_]NYZ]QP[]Y
@HWI-EAS443:3:59:927:1351#0/1
AAAAAAGACGATCAGTAATCCACAATATCAGGTGCAAGAT
+HWI-EAS443:3:59:927:1351#0/1
abbbb`bbaa`_aa^aa[¥]`ab````^__LO[UUT[X]
@HWI-EAS443:3:59:954:456#0/1
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+HWI-EAS443:3:59:954:456#0/1
abbabbbabZ_bb_ba¥a`_abbaabbb]aaZa` [WW^W[
@HWI-EAS443:3:59:971:1128#0/1
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+HWI-EAS443:3:59:971:1128#0/1
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@HWI-EAS443:3:5:1073:248#0/1
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+HWI-EAS443:3:5:1073:248#0/1
``T^`_b]baW[a^_¥[`GJ_a^TaTR^a`a`aBBBBBBB
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+HWI-EAS443:3:5:1489:30#0/1
_]a]¥ZW`ba]aXZJaQa_a` [GPaZa¥Q_GXW_W_BBBB
@HWI-EAS443:3:5:1506:1189#0/1
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+HWI-EAS443:3:5:1506:1189#0/1
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@HWI-EAS443:3:5:1583:1068#0/1
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+HWI-EAS443:3:5:1583:1068#0/1
]XY`^N^aZX^^)`a`a[IaYzb^_V`a`_a_W¥_aaBB
@HWI-EAS443:3:5:1751:345#0/1
GCACCTGATATTGTGGATTACTGATCGTCTTTTTTTCAA
+HWI-EAS443:3:5:1751:345#0/1
abb`abaaab`a]aa_aaa]`a_a` `^a`aaaa^aa_
@HWI-EAS443:3:5:232:640#0/1
GGGAGTGCAGATGCAGCGATTCAAGTGATCCTCTCGTCAT
+HWI-EAS443:3:5:232:640#0/1
`^a`_R`_a`X`^Z]]¥_`^YXR[aV`_`_TU]R][^XGBB
@HWI-EAS443:3:5:243:317#0/1
ACAGAAGCTGCTTTTGGTCTAGTGTGCCACTTGTGAAC
+HWI-EAS443:3:5:243:317#0/1
`bbba_aa` ` _aaaa__aa]a`_Ua`_aa^`_¥a_a¥
@HWI-EAS443:3:5:284:1923#0/1
GCCTACCAGAAGCGAATGGGAGTGCAGATGCAGCGATTCA
+HWI-EAS443:3:5:284:1923#0/1
]ab]TZbba`ba_bYV]XbZY]S]]aYPMR]]G^_P^BBB
@HWI-EAS443:3:5:545:284#0/1
CTAGACAAAAGCAGCTTCTGTGGTCACTGTCCCATCCT
+HWI-EAS443:3:5:545:284#0/1
`_ab`_]`^aa`a]_`¥_`¥__X`_U^¥V`_W[WM¥¥WWBB

@HWI-EAS443:3:5:546:508#0/1
GAGACCGATGCTGTGAATCAGCAATCTGTTCAACAAGTGGC
+HWI-EAS443:3:5:546:508#0/1
`b`aa^b`aa`_a_a``aabaaaa`aa```_¥aaa_a_B
@HWI-EAS443:3:5:588:659#0/1
GAGAGGATCACTTGAATCGCTGCATCTGCACTCCCATTTCG
+HWI-EAS443:3:5:588:659#0/1
MZZV_X_¥¥_Z_b`[_`___b_`Z`____Q¥K_WPPWWZ_B
@HWI-EAS443:3:5:639:21#0/1
CACAAAGTGGCACACACTAGACCAAAGCAGCTTCTGTGGT
+HWI-EAS443:3:5:639:21#0/1
ab`bbb`bb`baa_a`aaaa__`a`aa_aa```¥__^`BB
@HWI-EAS443:3:5:734:1061#0/1
AGATCCCAATGATATTTGCTGCAATGACGAGAGGATCACT
+HWI-EAS443:3:5:734:1061#0/1
b]¥`^V¥aba`_`b][[_bba`Xaaaa`¥__a[¥]`]B
@HWI-EAS443:3:5:845:1307#0/1
ACCGATGCTGTGAATCAGCAATCTGTTCAACAAGTGGCACA
+HWI-EAS443:3:5:845:1307#0/1
a^Z[_`aa_aa¥a_a`_a]_`__`]V¥X`0___W__X_V^
@HWI-EAS443:3:5:885:355#0/1
CAAGATTGGTCTTGTCTTTAGCCATTCCATGAGAGCCTCA
+HWI-EAS443:3:5:885:355#0/1
¥`ab_ab`_^`b``bab]¥¥WJ]a¥[Taa]Zba_]aYa
@HWI-EAS443:3:60:1069:1816#0/1
GTCTTTTTTTCAAATGTATTTATCGTCGCTTTAAATACGG
+HWI-EAS443:3:60:1069:1816#0/1
X^`¥bbbbbaab_¥]`ba^aaX^RXbI^_b¥__^`NY`
@HWI-EAS443:3:60:1121:1977#0/1
GATCGTCTTTTTTTCAAATGTATTTATCGTCGCTTTAAAT
+HWI-EAS443:3:60:1121:1977#0/1
^aSM[P_]¥`¥¥a¥V^b^_aYa]`¥QZ^KVSPR]a^`_`_I
@HWI-EAS443:3:60:1183:868#0/1
CTTTTTTTCAAATGTATTTATCGTCGCTTTAAATACGGTT
+HWI-EAS443:3:60:1183:868#0/1
`bbbbbbba`ababbbbbbaab_a]baa]__a`]^baa
@HWI-EAS443:3:60:1201:1672#0/1
GACCGATGCTGTGAATCAGCAATCTGTTCAACAAGTGGCAC
+HWI-EAS443:3:60:1201:1672#0/1
aa_Y^¥_¥¥W`_]¥^]Y^]¥]Z^S[[PZV]PZ[TTVVJ]L
@HWI-EAS443:3:60:122:1029#0/1
ACAGAAGCTGCTTTTGGTCTAGTGTGTGCCACTTGTGAAC
+HWI-EAS443:3:60:122:1029#0/1
aa_]bbabaaa`a_aaa_a`^V__]_^_]_____^__WT
@HWI-EAS443:3:60:1294:544#0/1
ACCTGATATTGTGGATTACTGATCGTCTTTTTTTCAAATG
+HWI-EAS443:3:60:1294:544#0/1
aba`bab`abbaaa`aba`aa`a`b^`a`baaaa_`_`a]
@HWI-EAS443:3:60:1312:1069#0/1
ATTCTGTTTTTCATGCCTGATTAGTGGATTGGTGGTAGTAG

+HWI-EAS443:3:60:1312:1069#0/1
abb`aa`aba`aaaaaa^aa`Xaa`a``_^_YBBBBBB
@HWI-EAS443:3:60:1437:1067#0/1
AGAGGATCACTTGAATCGCTGCATCTGCACTCCCATTTCGC
+HWI-EAS443:3:60:1437:1067#0/1
abaa`aaa`aaaa_aa_aa_a`a`_¥a_¥`_`¥YY^_¥[W
@HWI-EAS443:3:60:1589:858#0/1
GAGACCGATGCTGTGAATCAGCAATCTGTTCAACAAGTGGC
+HWI-EAS443:3:60:1589:858#0/1
P^`^aaSa_`a`[TPa_`^¥X_Q_`^]M[S¥¥XT[UU
@HWI-EAS443:3:60:1614:622#0/1
CATGGGGCCAAGGAGGTGTCACCTAAGCTATTCAACTGGTG
+HWI-EAS443:3:60:1614:622#0/1
abbbab`a_ba```aaaba`b_baaaab`baa`]]a]]][b
@HWI-EAS443:3:60:1625:1210#0/1
CAGTGACCACAGAAGCTGCTTTTGGTCTAGTGTGTGCCAC
+HWI-EAS443:3:60:1625:1210#0/1
abaaababa`bbbaaabb`babbX]_`b_aaa^__a]_a^
@HWI-EAS443:3:60:1740:763#0/1
CAGTGACCACAGAAGCTGCTTTTGGTCTAGTGTGTGCCAC
+HWI-EAS443:3:60:1740:763#0/1
abb_bbb`babbbaaaaa_aaaa^`V]`aa^a__^a]aa]
@HWI-EAS443:3:60:1751:467#0/1
GGAGGTTGCTAATCAGACTAGGCAGATGGTACATGCAATG
+HWI-EAS443:3:60:1751:467#0/1
abTVHKaT_[V]]TSW_Z`Y]_[QWRPYXOYBBBBBBBBBB
@HWI-EAS443:3:60:1761:85#0/1
AGAAGCTCAAAAGAGAAATAACGTTCCATGGGGCCAAGGA
+HWI-EAS443:3:60:1761:85#0/1
abaaba`a]aaab¥a_aa___R`_aWZY_`_`NQQU`¥F
@HWI-EAS443:3:60:187:1850#0/1
ATCAGACTAGGCAGATGGTACATGCAATGAGAACTATTGG
+HWI-EAS443:3:60:187:1850#0/1
`^V`aaaX¥YOYaY^Y]W]UG^__I`aaHa_]_YY`M[]]
@HWI-EAS443:3:60:223:842#0/1
CACTGTTCCCATCCTGTTGTATATGAGGCCCATGCAACTG
+HWI-EAS443:3:60:223:842#0/1
aaabb_aaaaaaaab__b¥`a^`_^_]Z```¥]`¥_`^
@HWI-EAS443:3:60:300:888#0/1
ATCGCTGCATCTGCACTCCCATTTCGTTCTGGTAGGCCTG
+HWI-EAS443:3:60:300:888#0/1
``a¥]_a``a]a[[¥aaZZEV][[XXVXXXURJOUJMTV
@HWI-EAS443:3:60:323:738#0/1
GGCCTCATATACAACAGGATGGGAACAGTGACCACAGAAG
+HWI-EAS443:3:60:323:738#0/1
`bb`ba[aR`Y_]X_`a[aa[a^aaT`a__YY__[W_
@HWI-EAS443:3:60:367:208#0/1
GAGACCGATGCTGTGAATCAGCAATCTGTTCAACAAGTGGC
+HWI-EAS443:3:60:367:208#0/1
abaaaab`aaX`aabaaa`a`aa`]_____^`]a¥^U__V

@HWI-EAS443:3:60:510:713#0/1
ATGGGAATGGGGACCCGAACAACATGGATAGAGCAGTTAA
+HWI-EAS443:3:60:510:713#0/1
a_ba`aa^b]Z_Z`aaaaa`Xaaaab`^`¥a[¥][]^_
@HWI-EAS443:3:60:603:549#0/1
AATACATTTGAAAAAAGACGATCAGTAATCCACAATATC
+HWI-EAS443:3:60:603:549#0/1
UT_]_Za`_`Z_aVZWa`Z^`^`^_U`]b`_]_]_V`aaa^0
@HWI-EAS443:3:60:700:676#0/1
ATGGGCCTCATATACAACAGGATGGGAACAGTGACCACAG
+HWI-EAS443:3:60:700:676#0/1
aabaaaababbaaaaa`aaa`ba`a¥aa¥aa`a__a`
@HWI-EAS443:3:60:701:54#0/1
GTCTAGTGTGTGCCACTTGTGAACAGATTGCTGATTCACA
+HWI-EAS443:3:60:701:54#0/1
aaaa_aY`^`]`__`^a_a`__Y_a__^`^`]`X_YX^X]
@HWI-EAS443:3:60:712:1733#0/1
CAAGATTGGTCTTGTCTTTAGCCATTCCATGAGAGCCTCA
+HWI-EAS443:3:60:712:1733#0/1
abababbab`b`b`bb`bb[^`aaaa`aba`_^GYTa`_
@HWI-EAS443:3:60:784:1426#0/1
GCCTACCAGAAGCGAATGGGAGTGCAGATGCAGCGATTCA
+HWI-EAS443:3:60:784:1426#0/1
aaaba`a^a`aa_aa]aaa`[^`Z^__a[Za___^ZZ[SZ^
@HWI-EAS443:3:60:845:704#0/1
GGATTACTGATCGTCTTTTTTCAAATGTATTTATCGTCG
+HWI-EAS443:3:60:845:704#0/1
abaabbaabaaaba`bbababb`a_aba^aaaa`a`a^``
@HWI-EAS443:3:60:854:115#0/1
CACTTGTGAACAGATTGCTGATTCACAGCATCGGTCTCAC
+HWI-EAS443:3:60:854:115#0/1
ababbb]bab`baaaab_ab`a`_`a^aa_a`Y^`^`^`
@HWI-EAS443:3:60:904:1173#0/1
CGCGCAGAGACTGGAAAGTGTCTTTGCAGGAAAGAACACA
+HWI-EAS443:3:60:904:1173#0/1
abaaY`abababbbaba`_`bab¥aab]]]JZ][`Z`Xa
@HWI-EAS443:3:60:936:288#0/1
ACCGATGCTGTGAATCAGCAATCTGTTCAAGTGGCACA
+HWI-EAS443:3:60:936:288#0/1
a```W¥¥VV__a^YZPY]¥WZWS¥¥ZZTQUVTTTX[PW¥Y
@HWI-EAS443:3:60:945:468#0/1
CAATAGTTCTCATTGCATGTACCATCTGCCTAGTCTGATT
+HWI-EAS443:3:60:945:468#0/1
abab]Va`a_]_]ba`[bbb^ba^a^aab`a`b]X`a____
@HWI-EAS443:3:60:967:2043#0/1
GGGCCTCATATACAACAGGATGGGAACAGTGACCACAGAA
+HWI-EAS443:3:60:967:2043#0/1
aba`aba`bbb`aa_aaaYaaa¥]a_aa¥_a^N__`__`
@HWI-EAS443:3:61:1002:149#0/1
CACTTGAATCGCTGCATCTGCACTCCCATTCTGCTTCTGGT

+HWI-EAS443:3:61:1002:149#0/1
`bbbaabbabb`b]^bbbbbb_bab`aaaa[____a`Z_Y
@HWI-EAS443:3:61:1117:864#0/1
TGAGAGCCTCAAGATCTGTGTTCTTTCCTGCAAAGACACT
+HWI-EAS443:3:61:1117:864#0/1
¥_ITU_Va^Ua`_[U^ba_b[^[^RUU¥b_0^[]aZ`R[
@HWI-EAS443:3:61:1202:770#0/1
ATCACTTGAATCGCTGCATCTGCACTCCCATTGCTTCTG
+HWI-EAS443:3:61:1202:770#0/1
^_a]Zabbbbbbaaab__aaaaa^aba`aa^^¥`_[_¥
@HWI-EAS443:3:61:1240:78#0/1
GACAAGATTGGTCTTGTCTTTAGCCATTCCATGAGAGCCT
+HWI-EAS443:3:61:1240:78#0/1
aa__Zaa_aaa[^`_`X`__^_]_X__¥]]][XX_UXWWY
@HWI-EAS443:3:61:126:357#0/1
TGGGCCTCATATACAACAGGATGGGAACAGTGACCACAGA
+HWI-EAS443:3:61:126:357#0/1
abaaaaaaaaabaaaaa`_^U[W^_U[R__W^_[T^¥^[[
@HWI-EAS443:3:61:1335:1206#0/1
CTTAGTCAGAGGTGACAAGATTGGTCTTGTCTTTAGCCAT
+HWI-EAS443:3:61:1335:1206#0/1
abbabaaab_bbXbaababbabbaabbaabbbbb`aa`
@HWI-EAS443:3:61:1371:670#0/1
GAACAGTGACCACAGAAGCTGCTTTTGGTCTAGTGTGTGC
+HWI-EAS443:3:61:1371:670#0/1
a_^WT]R`_^[]Y^]Y]YS^YX^YVVXYXYVWUUT
@HWI-EAS443:3:61:1396:270#0/1
ACAAGACCAATCTTGTACCTCTGACTAAGGGAATTTAG
+HWI-EAS443:3:61:1396:270#0/1
a`a[U^_] [a_[]`_]T^¥`[]a]____a[aU[Z]X]WX
@HWI-EAS443:3:61:143:1958#0/1
TGGGCCTCATATACAACAGGATGGGAACAGTGACCACAGA
+HWI-EAS443:3:61:143:1958#0/1
a]^`ab]]^`aaU_ZU`V]S_Z[^Y`a``ZRR¥V^^[VZU
@HWI-EAS443:3:61:1455:1335#0/1
CACTAGACCAAAAGCAGCTTCTGTGGTCACTGTTCCATC
+HWI-EAS443:3:61:1455:1335#0/1
`b`bbababbabaabbbabbbbaabbaaa^ab_a^W`¥W
@HWI-EAS443:3:61:1475:1695#0/1
ATGGGAACAGTGACCACAGAAGCTGCTTTTGGTCTAGTGT
+HWI-EAS443:3:61:1475:1695#0/1
ab`baaaaba^aa`_babbaabbaUaaaaa`V¥`_`YW¥Y
@HWI-EAS443:3:61:1641:1458#0/1
CAAGATCCCAATGATATTTGCTGCAATGACGAGAGGATCA
+HWI-EAS443:3:61:1641:1458#0/1
¥^ab]ba_^b_bbbaabbaababba]aa`aaaa_R^WX
@HWI-EAS443:3:61:1644:620#0/1
AAAAAGACGATCAGTAATCCACAATATCAGGTGCAAGATC
+HWI-EAS443:3:61:1644:620#0/1
ab_¥`aaaaa`_^_[aa^[aa^Waa`^____`]`¥]]UX[U

@HWI-EAS443:3:61:1742:766#0/1
GGATTACTGATCGTCTTTTTTTCAAATGTATTTATCGTCG
+HWI-EAS443:3:61:1742:766#0/1
aa^_^`aa_a_`]^```aa`a^WY]a[¥]`^]_¥ZWW[
@HWI-EAS443:3:61:1776:281#0/1
ACCTGATATTGTGGATTACTGATCGTCTTTTTTTCAAATG
+HWI-EAS443:3:61:1776:281#0/1
aaabbababa`bb_abaaa`^^`b`aaaaaaa^¥`_`_`
@HWI-EAS443:3:61:1788:243#0/1
ACCTTCTTGAAAATTTGCAGGCCTACCAGAAGCGAATGGG
+HWI-EAS443:3:61:1788:243#0/1
aaaaaaaaaaaaaaaaaaaa`aa]^^a`^¥^^U][WY_VZ
@HWI-EAS443:3:61:212:293#0/1
ATCCATGTTGTTCCGGTCCCCATTCCCATTAGGGCATT
+HWI-EAS443:3:61:212:293#0/1
_bababb`abaaaaa_aabbY_aa_a_aa`a`a^`_`]
@HWI-EAS443:3:61:275:1164#0/1
CAGGCCTACCAGAAGCGAATGGGAGTGCAGATGCAGCGAT
+HWI-EAS443:3:61:275:1164#0/1
ab_ab`baaa`_]`^aabJaaa`Y`N`Y_¥Q[Z^^`¥¥VR
@HWI-EAS443:3:61:322:495#0/1
CTGCACTCCCATTCGCTTCTGGTAGGCCTGCAAATTTTCA
+HWI-EAS443:3:61:322:495#0/1
^_¥`[[[_][Q[a¥Za_¥_¥Ua]0[_TG]_RZ]]N]PYYY[
@HWI-EAS443:3:61:368:594#0/1
GCTGGCTAGCACTACGGCAAAGGCTATGGAACAGATGGCT
+HWI-EAS443:3:61:368:594#0/1
a¥`_`¥X¥ZZ`P¥XX_V¥WXSUWYNNSSYW¥WWWPUWSU
@HWI-EAS443:3:61:37:1697#0/1
CGTCTTTTTTTCAAATGTATTTATCGTCGCTTTAAATACG
+HWI-EAS443:3:61:37:1697#0/1
abbaabbbabbbb`a```_bba^ab__aabba_¥`_`_¥IW
@HWI-EAS443:3:61:402:712#0/1
ATCAGCAATCTGTTCAACAAGTGGCACACACTAGACCAAAA
+HWI-EAS443:3:61:402:712#0/1
aa`^Z`_aX`_a`_a_aaZK_U_^`W]aaaa`^`^`^`^`^`^`
@HWI-EAS443:3:61:421:1047#0/1
CTTCTGTGGTCACTGTTCCCATCCTGTTGTATATGAGGCC
+HWI-EAS443:3:61:421:1047#0/1
abbabaab`_bbabaabbbab`aa`¥[ba`^^`a``¥¥VV
@HWI-EAS443:3:61:472:640#0/1
CGTCATTGCAGCAAATATCATTGGGATCTTGCACCTGATA
+HWI-EAS443:3:61:472:640#0/1
X¥bbX`bbaaaa]`[HH`VaQPY^TQVa_H]a^XZLYO]V
@HWI-EAS443:3:61:477:444#0/1
TGTGAATCAGCAATCTGTTCAACAAGTGGCACACACTAGAC
+HWI-EAS443:3:61:477:444#0/1
abab`aabbbabaaaab¥_Z_aW[aY``aaa_V`^^^^^]
@HWI-EAS443:3:61:489:379#0/1
CACAGAAGCTGCTTTTGGTCTAGTGTGTGCCACTTGTGAA

+HWI-EAS443:3:61:489:379#0/1
a`abbbbbbaababb`b[aa`a^a_a_b_`b^a_`^____
@HWI-EAS443:3:61:496:1091#0/1
ATCGTCTTTTTTCAAATGTATTTATCGTCGCTTTAAATA
+HWI-EAS443:3:61:496:1091#0/1
a]ba`a__ab`a_]_bb_VPSX_]RYa^¥[`Y¥]]R]_Y]
@HWI-EAS443:3:61:548:361#0/1
TGTGAATCAGCAATCTGTTCAAGTGGCACACACTAGAC
+HWI-EAS443:3:61:548:361#0/1
W¥`Y¥a_bZ`VaZ_aY¥Z¥_X_R¥_U¥`¥_dW¥Z_a````]
@HWI-EAS443:3:61:638:587#0/1
TTCGGGTCCCCATTCCCATTAGGGCATTGGACAAAGC
+HWI-EAS443:3:61:638:587#0/1
a`a``^_aa`a`^`_aaaa_^W¥X^`Xa``a`[_^^^_¥S
@HWI-EAS443:3:61:662:206#0/1
CGATCAGTAATCCACAATATCAGGTGCAAGATCCCAATGA
+HWI-EAS443:3:61:662:206#0/1
^Zb`aaaa_bb`SS¥VT_Q[a_NHR]_`Y^)`^^`aT_Y_
@HWI-EAS443:3:61:838:595#0/1
GATCGTCTTTTTTCAAATGTATTTATCGTCGCTTTAAAT
+HWI-EAS443:3:61:838:595#0/1
``W^aaa]`aV`_`Y`[aNY]]XN]NYVDRT_`YKRWX
@HWI-EAS443:3:61:856:1481#0/1
ATTTGCTGCAATGACGAGAGGATCACTTGAATCGCTGCAT
+HWI-EAS443:3:61:856:1481#0/1
`_V^_¥aa`XURa][^_U_`^WQaaa_`_aa[Z_VU][[UK
@HWI-EAS443:3:61:938:1071#0/1
TGTGAATCAGCAATCTGTTCAAGTGGCACACACTAGAC
+HWI-EAS443:3:61:938:1071#0/1
aa[`b`b`a`aaaaabbabaaaXa`[a_`a^a]`^^^_^]X
@HWI-EAS443:3:61:940:315#0/1
ATCGTCTTTTTTCAAATGTATTTATCGTCGCTTTAAATA
+HWI-EAS443:3:61:940:315#0/1
aa^a_abaaabaa^aaa`b^``aa]`__]]`]__`^Y[[[
@HWI-EAS443:3:61:943:1877#0/1
AAGGAGGTGTCACCTAAGCTATTCAACTGGTGCACCTGCCA
+HWI-EAS443:3:61:943:1877#0/1
]Y^SaU```[abb`b`baab`ababaaZN[`[____V[RM]
@HWI-EAS443:3:61:971:749#0/1
CTAGTGTGTGCCACTTGTGAACAGATTGCTGATTCACAGC
+HWI-EAS443:3:61:971:749#0/1
abbbbbbabbbbbbbbbbb`¥a¥`bbbbabbbabaaaaa]
@HWI-EAS443:3:61:985:888#0/1
AGCGATTCAAGTGATCCTCTCGTCATTGCAGCAAATATCA
+HWI-EAS443:3:61:985:888#0/1
X_bba^V¥a__0¥`a_aab`baZba`aa^`_`[[[Z¥^TS
@HWI-EAS443:3:62:1172:1685#0/1
CACAGAAGCTGCTTTTGGTCTAGTGTGTGCCACTTGTGAA
+HWI-EAS443:3:62:1172:1685#0/1
a_0_]a^]Xa_R]aaZV]Zab]``a^XaZSR_`^]PGRb]

@HWI-EAS443:3:62:1193:1138#0/1
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+HWI-EAS443:3:62:1193:1138#0/1
`bbbaababbabaabb_aaaaa``ab`a`_aaaaaaa
@HWI-EAS443:3:62:1226:618#0/1
CGCTGCATCTGCACTCCCATTCGCTTCTGGTAGGCCTGCA
+HWI-EAS443:3:62:1226:618#0/1
abbaaababbabaab`a¥aba[aaaab`_¥`b__Vabaa
@HWI-EAS443:3:62:1271:1023#0/1
GCACCTGATATTGTGGATTACTGATCGTCTTTTTTTTCAA
+HWI-EAS443:3:62:1271:1023#0/1
a]XQ_¥_RXPW]Z]T^]UW[_UVVVV_Z¥¥]^YRRTZ
@HWI-EAS443:3:62:1285:1329#0/1
GTGACCACAGAAGCTGCTTTTGGTCTAGTGTGCCACTT
+HWI-EAS443:3:62:1285:1329#0/1
`[baaaaaaaaaW`[]__a__aVa]a`_`Z^UTZ^a_]Z
@HWI-EAS443:3:62:1301:2030#0/1
CACAAGTGGCACACACTAGACAAAAGCAGCTTCTGTGGT
+HWI-EAS443:3:62:1301:2030#0/1
a^Xa]TNOL^a_bSbbZ[DW^Y^a_U_`][__U]^]^SO
@HWI-EAS443:3:62:1310:60#0/1
AGATCCCAATGATATTTGCTGCAATGACGAGAGGATCACT
+HWI-EAS443:3:62:1310:60#0/1
abab`aaaabbababbbbaab_aaaa__b`a_aa__Z¥^_
@HWI-EAS443:3:62:1463:653#0/1
GGCCTCATATACAACAGGATGGGAACAGTGACCACAGAAG
+HWI-EAS443:3:62:1463:653#0/1
ab``a`baabaaaa]aba`b`a_`WZaQ`a[____`_``_
@HWI-EAS443:3:62:1475:1903#0/1
AAGATTGGTCTTGTCTTTAGCCATTCCATGAGAGCCTCAA
+HWI-EAS443:3:62:1475:1903#0/1
aababbbb`¥bab`babaaa]a_`S]_a_a_`¥[Z¥aa`
@HWI-EAS443:3:62:1511:56#0/1
GGGGCCAAGGAGGTGTCACTAAGCTATTCAACTGGTGCAC
+HWI-EAS443:3:62:1511:56#0/1
a^]b_`a_b^[_X[a^`Zaa`a[___aaa`^U[^^W_^^^
@HWI-EAS443:3:62:1555:1597#0/1
GCCACTTGTGAACAGATTGCTGATTCACAGCATCGGTCTC
+HWI-EAS443:3:62:1555:1597#0/1
a`aaX````_¥a_aa`__¥`¥___Y_Ya`__`Xa[RV_Y
@HWI-EAS443:3:62:1567:1596#0/1
CACTACGGCAAAGGCTATGGAACAGATGGCTGGATCGAGT
+HWI-EAS443:3:62:1567:1596#0/1
_b_abaa[SWaa`^[aa_ab_`^`^VXSUbaXZ`QZH^UYH
@HWI-EAS443:3:62:1574:1621#0/1
GATCCTCTCGTCATTGCAGCAAATATCATTGGGATCTTGC
+HWI-EAS443:3:62:1574:1621#0/1
ab_¥^b]`Vb`_a__baaaaa`a___`aa`Xa]Z]^`aa
@HWI-EAS443:3:62:1621:78#0/1
GTCCCAATAGTTCTCATTGCATGTACCATCTGCCTAGTCT

+HWI-EAS443:3:62:1621:78#0/1
a[LG]Y_YN¥Y[U_WZZZ^ZU¥[VXNOY¥PY]QJYTSTBB
@HWI-EAS443:3:62:181:993#0/1
GGAGGTTGCTAATCAGACTAGGCAGATGGTACATGCAATG
+HWI-EAS443:3:62:181:993#0/1
ab_aa¥aa`aa`_`W`_`_^ZYJ[Z^^aRLYHVU^]R[Z
@HWI-EAS443:3:62:229:1139#0/1
CCCATGGAACGTTATTTCTCTTTTGAGCTTCTGTATAGT
+HWI-EAS443:3:62:229:1139#0/1
`aaaZ_a`_a_]a__aaa`a`_Y__a`^___^[_^_]`
@HWI-EAS443:3:62:247:1061#0/1
GACCACAGAAGCTGCTTTTGGTCTAGTGTGTGCCACTTGT
+HWI-EAS443:3:62:247:1061#0/1
`¥aaTa[a^`_SY__YY___`G_YYKLXSWWP^_`RZTFP
@HWI-EAS443:3:62:296:1291#0/1
GACCGATGCTGTGAATCAGCAATCTGTTCCACAAGTGGCAC
+HWI-EAS443:3:62:296:1291#0/1
`_aa]a^]aab_aaaab]Taa¥`aa^`¥_Ta_a`¥_UW_a
@HWI-EAS443:3:62:348:1593#0/1
GGCCTACCAGAAGCGAATGGGAGTGCAGATGCAGCGATTC
+HWI-EAS443:3:62:348:1593#0/1
a`_SaSa]Y^Q^JVU^YUW¥QQXKXK]OUPYVHPS^UQNZ
@HWI-EAS443:3:62:484:423#0/1
GCACCTGATATTGTGGATTACTGATCGTCTTTTTTTTCAA
+HWI-EAS443:3:62:484:423#0/1
^`]¥_`aYO[[VZYX^R[^OWXa[YV]QY¥^a^_Y[[XLV
@HWI-EAS443:3:62:511:723#0/1
GCCTACCAGAAGCGAATGGGAGTGCAGATGCAGCGATTCA
+HWI-EAS443:3:62:511:723#0/1
Z`^X_[XWT]¥W`WR_X`^`]ZJZXYUTVW`SQOXK¥]ZR
@HWI-EAS443:3:62:529:1369#0/1
AGATCCCAATGATATTTGCTGCAATGACGAGAGGATCACT
+HWI-EAS443:3:62:529:1369#0/1
a¥aaaabaababaa`_]`a_aaba]`aa_a^a`_`_]`^`
@HWI-EAS443:3:62:608:1849#0/1
ATCACTTGAATCGCTGCATCTGCACTCCCATTGCTTCTG
+HWI-EAS443:3:62:608:1849#0/1
^a_bab_Zabbaaa`]abaa`aaaa^_[a_a___a`_aa¥
@HWI-EAS443:3:62:63:242#0/1
CACTGTTCCCATCCTGTTGTATATGAGGCCCATGCAACTG
+HWI-EAS443:3:62:63:242#0/1
`bbbbaaaabbaaaabaaa_abaaa`_Y`^`^`¥__]^YZ
@HWI-EAS443:3:62:684:615#0/1
CGCTTCTGGTAGGCCTGCAAATTTTCAAGAAGGTCATCTT
+HWI-EAS443:3:62:684:615#0/1
a`^a_a]S_ZP]a¥`abaa¥NWRZ__a`_`a__Q_[X^U_
@HWI-EAS443:3:62:716:1061#0/1
GGGCCTCATATACAACAGGATGGGAACAGTGACCACAGAA
+HWI-EAS443:3:62:716:1061#0/1
abbbbabbbbbb`aaa_baaa_aa`a`aa¥aaaaa`aa^V

@HWI-EAS443:3:62:73:1067#0/1
CTCATATACAACAGGATGGGAACAGTGACCACAGAAGCTG
+HWI-EAS443:3:62:73:1067#0/1
aa¥S^bba_VVSZ^aZX`^`PXR[[^YZUXH_[J`Q[DM
@HWI-EAS443:3:62:878:831#0/1
GTGTACTAAGCTATTCAACTGGTGCACCTGCCAGTTGCA
+HWI-EAS443:3:62:878:831#0/1
^Za^_ababaaaa`a`^_`a`Y]]aa`^¥¥`^U]]_`^
@HWI-EAS443:3:62:881:66#0/1
GAGACCGATGCTGTGAATCAGCAATCTGTTACAAGTGGC
+HWI-EAS443:3:62:881:66#0/1
aVY]]S¥Z¥¥VW¥W^UTY[Z^YYWTTYZTSSRQVVWSWVW
@HWI-EAS443:3:62:901:220#0/1
CCAATCTTGTCACCTCTGACTAAGGGAATTTTAGGATTTG
+HWI-EAS443:3:62:901:220#0/1
ab`bbbbbb_bbaabbbbbbbbabbbbaaaaaaaaaaaaa_a
@HWI-EAS443:3:62:907:151#0/1
CCGATGCTGTGAATCAGCAATCTGTTACAAGTGGCACAC
+HWI-EAS443:3:62:907:151#0/1
aa`a^a_b`aaaa`¥X_`Z`V¥^ZPWYV[T]U^TU^WVU
@HWI-EAS443:3:62:985:1499#0/1
GGTGTACTAAGCTATTCAACTGGTGCACCTGCCAGTTGC
+HWI-EAS443:3:62:985:1499#0/1
ab_aaababbaaabbaaabbaa_a__`aaaaaa_a[¥a``
@HWI-EAS443:3:63:1141:1086#0/1
TACTGATCGTCTTTTTTTCAAATGTATTTATCGTCGCTTT
+HWI-EAS443:3:63:1141:1086#0/1
a`aaa`aaa_aaaaaaaaaa___a]aaa`a_¥aZa_`a_`
@HWI-EAS443:3:63:1142:1155#0/1
ACAGTGACCACAGAAGCTGCTTTTGGTCTAGTGTGTGCCA
+HWI-EAS443:3:63:1142:1155#0/1
aa``]aaaa`aba_aa^`a`__X_]_]YS^]`W^a
@HWI-EAS443:3:63:1232:468#0/1
GACGAGAGGATCACTTGAATCGCTGCATCTGCACTCCCAT
+HWI-EAS443:3:63:1232:468#0/1
ababbabbaaaaa_bb`abb`aa`a`a`_`^]`^a_aa¥[Y
@HWI-EAS443:3:63:1330:1521#0/1
ATTACTGATCGTCTTTTTTTCAAATGTATTTATCGTCGCT
+HWI-EAS443:3:63:1330:1521#0/1
W_¥_QOI[¥ZR[`][¥aba`]aa`Wb_VYa_]¥a_HSa`Y
@HWI-EAS443:3:63:1333:789#0/1
ATCAGGTGCAAGATCCCAATGATATTTGCTGCAATGACGA
+HWI-EAS443:3:63:1333:789#0/1
Y``¥V_abab_¥Z_Z]aba`_`_ab^b`Y`SUaa_`^Yba
@HWI-EAS443:3:63:1371:1118#0/1
CAAAAGAGAAATAACGTTCCATGGGGCCAAGGAGGTGTCA
+HWI-EAS443:3:63:1371:1118#0/1
_bbbbbbbbbbbbb^bbabbbba]]a]]`^Y]aba]b``b
@HWI-EAS443:3:63:1391:908#0/1
TGCACCTGATATTGTGGATTACTGATCGTCTTTTTTTCAA

+HWI-EAS443:3:63:1391:908#0/1
abb[VU¥b]a^a`_F_a`R^Yaaa¥Ymb^a]aaabab^Z`
@HWI-EAS443:3:63:1424:1163#0/1
GCAAAGGCTATGGAACAGATGGCTGGATCGAGTGAACAGG
+HWI-EAS443:3:63:1424:1163#0/1
a_X`[a^^^YWRZM^SY`^^Y`_^][RKXUVBBBBBBBBBB
@HWI-EAS443:3:63:1473:565#0/1
TTTCAAACCGTATTTAAAGCGACGATAAATACATTTGAAA
+HWI-EAS443:3:63:1473:565#0/1
aaa_a`aaabXaaba`a`a_a^aa`_a]_a^]``^_a`a`
@HWI-EAS443:3:63:1482:355#0/1
GCCTACCAGAAGCGAATGGGAGTGCAGATGCAGCGATTCA
+HWI-EAS443:3:63:1482:355#0/1
_abbaaab`abab_Xbbab]aTa_aaaa^aa`a^`_aa
@HWI-EAS443:3:63:1501:184#0/1
GCCTCATATACAACAGGATGGGAACAGTGACCACAGAAGC
+HWI-EAS443:3:63:1501:184#0/1
`¥¥b`_Y]]¥Y]_KZaa^^Z``I__a_Ya[PP^]]UBBBB
@HWI-EAS443:3:63:152:1932#0/1
CGCTTCTGGTAGGCCTGCAAATTTTCAAGAAGTCATCTT
+HWI-EAS443:3:63:152:1932#0/1
^_]OY`PXXY`YHR]LNUX]R_]UU_X]VYRSJR¥W^][W
@HWI-EAS443:3:63:1576:790#0/1
GGCCATGGAGGTTGCTAATCAGACTAGGCAGATGGTACAT
+HWI-EAS443:3:63:1576:790#0/1
a_a`abba_ba^aa_aaaaV_aaX``a`WZ_X¥[`M^M¥P
@HWI-EAS443:3:63:196:1638#0/1
GAAAGATGACCTTCTTAAAAATTTGCAGGCCTACCAGAAG
+HWI-EAS443:3:63:196:1638#0/1
aV^ZRSOU`aaX_aWVa_W`[^][U`_¥Wa`_`_] ^VUZ
@HWI-EAS443:3:63:19:93#0/1
ATGGGCCTCATATACAACAGGATGGGAACAGTGACCACAG
+HWI-EAS443:3:63:19:93#0/1
aabaaaaa`aaaa_aa__aaZ^]U_[_YU¥[_XVWV
@HWI-EAS443:3:63:295:207#0/1
GGAACAGTGACCACAGAAGCTGCTTTTGGTCTAGTGTGTG
+HWI-EAS443:3:63:295:207#0/1
abaabab`abbbabbaaWaaa`a`a_]VV]_a[Z^]_WV
@HWI-EAS443:3:63:393:102#0/1
AGAAGCTGCTTTTGGTCTAGTGTGTGCCACTTGTGAACAG
+HWI-EAS443:3:63:393:102#0/1
aabbaa`_a_aa`_aZ_____^_V_¥^^^_Y^] ^W^]
@HWI-EAS443:3:63:572:1064#0/1
ATTTGCTGCAATGACGAGAGGATCACTTGAATCGCTGCAT
+HWI-EAS443:3:63:572:1064#0/1
a`a_Z_P^T¥`_aYV_a]XOTQTa¥XVUNY a^_YBBBBBB
@HWI-EAS443:3:63:615:391#0/1
CATGGAGGTTGCTAATCAGACTAGGCAGATGGTACATGCA
+HWI-EAS443:3:63:615:391#0/1
aaaaba`bYa[LLHYaa`_aX][a_]_`W^]_G[]SZR^]

@HWI-EAS443:3:63:691:225#0/1
GTGTACTAAGCTATTCAACTGGTGCACCTGCCAGTTGCA
+HWI-EAS443:3:63:691:225#0/1
a_]^\`aaaaa___^\`aa__X__Ya_\`a_\`^\`_W]^\`^\`
@HWI-EAS443:3:63:802:1296#0/1
CAGTGACCACAGAAGCTGCTTTTGGTCTAGTGTGTGCCAC
+HWI-EAS443:3:63:802:1296#0/1
aaa]aabaaaaabaaa`aa``\`a_a_\```[]`\`^\`]^\`[^\`__
@HWI-EAS443:3:63:843:2041#0/1
GATGGGAACAGTGACCACAGAAGCTGCTTTTGGTCTAGTG
+HWI-EAS443:3:63:843:2041#0/1
^\`_Ub]a]\`aba[abababbbaa`_aaaa^[b_UaG`a`]\`__
@HWI-EAS443:3:63:873:509#0/1
GGGCCTCATATACAACAGGATGGGAACAGTGACCACAGAA
+HWI-EAS443:3:63:873:509#0/1
abbababbabaaaaaaaaaaaaabaa`a`aa¥aaa_\`a`aa
@HWI-EAS443:3:63:942:989#0/1
AGCAATCTGTTCAACAAGTGGCACACACTAGACCAAAAAGCA
+HWI-EAS443:3:63:942:989#0/1
`\`_]\`b`aba^aaa]_aUaZY_aaa¥]Waa¥`\`^U_\`^b`\`
@HWI-EAS443:3:63:966:1110#0/1
TATCCATGTTGTTCCGGTCCCCATTCCCATTTAGGGCATT
+HWI-EAS443:3:63:966:1110#0/1
aaaa`abaab`a`\`Y¥`T`aaa`\`_a_\`^\`¥¥^W_]^\`^\`
@HWI-EAS443:3:64:1076:1186#0/1
GGTGTACTAAGCTATTCAACTGGTGCACCTGCCAGTTGC
+HWI-EAS443:3:64:1076:1186#0/1
`b_baabbbb`_aaaaaaa`a`aa_a_\`aaaaZ`\`^a]_\`
@HWI-EAS443:3:64:1078:1943#0/1
GGTACATGCAATGAGAACTATTGGGACTCATCCTAGCTCC
+HWI-EAS443:3:64:1078:1943#0/1
`\`[ab¥ba[abba^baYaa`aa_XYZ_]^^aa_a_a_\`_^^
@HWI-EAS443:3:64:1088:1976#0/1
AGCAGCTTCTGTGGTCACTGTTCCCATCCTGTTGTATATG
+HWI-EAS443:3:64:1088:1976#0/1
a[_baaabbb_ZZa¥^\`[^QQa_W^a^NZ]]TaXZ^^_WQ
@HWI-EAS443:3:64:1210:924#0/1
TGGGCCTCATATACAACAGGATGGGAACAGTGACCACAGA
+HWI-EAS443:3:64:1210:924#0/1
aaaa`aaaabaaa`_aaaa_aa`\`_aX`aX`a^^`\`_^\`_]
@HWI-EAS443:3:64:1304:1797#0/1
AGGAGGTGTACTAAGCTATTCAACTGGTGCACCTGCCAG
+HWI-EAS443:3:64:1304:1797#0/1
[¥_aa]S¥^bb_b^YaRbba^aa`QM`^R¥JX[_[\`FNaa
@HWI-EAS443:3:64:1306:1265#0/1
CTGATCGTCTTTTTTTCAAATGTATTTATCGTCGCTTTAA
+HWI-EAS443:3:64:1306:1265#0/1
YaX¥_\`^\`abab^b`\`b¥_\`_bW__baaaaa`^¥Z`\`_a¥a]
@HWI-EAS443:3:64:1374:1866#0/1
GATCACTTGAATCGCTGCATCTGCACTCCCATTGCTTCT

+HWI-EAS443:3:64:1374:1866#0/1
ab`baab^bbb¥`a^_b_aa^aa]_Z]_a`VKU^`a^a
@HWI-EAS443:3:64:1423:336#0/1
GGATTACTGATCGTCTTTTTTTCAAATGTATTATCGTCG
+HWI-EAS443:3:64:1423:336#0/1
abaabbabbab`baabbbbbbaaa`ab`abbaaa_a]_a
@HWI-EAS443:3:64:1541:774#0/1
GCACACACTAGACCAAAAGCAGCTTCTGTGGTCACTGTTC
+HWI-EAS443:3:64:1541:774#0/1
a`aYa`a]_a]X_] []_a[N[`X¥__^]H^^R]WTQXXUU
@HWI-EAS443:3:64:1559:964#0/1
GTGCCACTTGTGAACAGATTGCTGATTACAGCATCGGTC
+HWI-EAS443:3:64:1559:964#0/1
¥U_]STXZ^Z`a`SQ_`S`ZL^a`YX^`¥`[X`_S`YJ]
@HWI-EAS443:3:64:1566:937#0/1
GCATGTACCATCTGCCTAGTCTGATTAGCAACCTCCATGG
+HWI-EAS443:3:64:1566:937#0/1
aba]aabbbaaaaa[`a_a`aaaa_____`a`_S`__X
@HWI-EAS443:3:64:1585:1882#0/1
ACGTTCCATGGGGCCAAGGAGGTGCTACTAAGCTATTCAA
+HWI-EAS443:3:64:1585:1882#0/1
aV`S[^Xa`__ZS¥_¥[UZW¥¥W¥U¥^HVZ¥QUUU¥SSQW
@HWI-EAS443:3:64:1776:1585#0/1
CTTTTTTTCAAATGTATTTATCGTCGCTTTAAATACGGTT
+HWI-EAS443:3:64:1776:1585#0/1
ab`_b_aaYabbab]abaa_baa`J^Y_aaU¥^RX_[`S_
@HWI-EAS443:3:64:231:1828#0/1
GATCCCAATGATATTTGCTGCAATGACGAGAGGATCACTT
+HWI-EAS443:3:64:231:1828#0/1
aaabbb_b]aa`ba[[¥a`aaa`]a__`M`[_]XZa__]
@HWI-EAS443:3:64:304:1697#0/1
GAAAGATGACCTTCTTGAAAATTTGCAGGCCTACCAGAAG
+HWI-EAS443:3:64:304:1697#0/1
`baa_aa^aa`U`aa_`[aa_`__^a`_`__W[Ya_^^^
@HWI-EAS443:3:64:322:220#0/1
AGCTTCTTGTATAGTTTAACTGCTCTATCCATGTTGTTTCG
+HWI-EAS443:3:64:322:220#0/1
a`a_aabb¥]V___P`aab]Y[]a^^a```V`a__`__^]
@HWI-EAS443:3:64:351:552#0/1
GTCCCCATTTCCATTTAGGGCATTGACAAAAGCGTCTA
+HWI-EAS443:3:64:351:552#0/1
a^aa_b]bbbaababba`]abaaaaabZaabaabZaab
@HWI-EAS443:3:64:418:308#0/1
TGTGAATCAGCAATCTGTTCAAGTGGCACACACTAGAC
+HWI-EAS443:3:64:418:308#0/1
[`[`J`aaXab^Taab`Xa]Z_^`[_`aabaaa`^a[`Z
@HWI-EAS443:3:64:446:544#0/1
GAACAGTGACCACAGAAGCTGCTTTTGGTCTAGTGTGTGC
+HWI-EAS443:3:64:446:544#0/1
aabb^b__aaabaaba_aaa`aa_`[Y^`aXZ_^_^W^

@HWI-EAS443:3:64:482:422#0/1
CTTTTTTCAAATGATTTATCGTCGCTTTAAATACGGTT
+HWI-EAS443:3:64:482:422#0/1
aa`[^a[]^aaab[]`_a`aa`Ya_V]Y` `` `ZQV`_Y_
@HWI-EAS443:3:64:485:1798#0/1
GTGTCACTAAGCTATTCAACTGGTGCACCTGCCAGTTGCA
+HWI-EAS443:3:64:485:1798#0/1
aTXJY`[Y[TX¥RZV0[`¥R_[`V`ZY__^S[OPVFWDO
@HWI-EAS443:3:64:492:1202#0/1
AAAGCAGCTTCTGTGGTCACTGTTCCCATCCTGTTGTATA
+HWI-EAS443:3:64:492:1202#0/1
_^^^__`aabaa¥]Z^Za`¥]X]`aa_a_`^]]^`XU¥__
@HWI-EAS443:3:64:594:572#0/1
CTGATCGTCTTTTTTCAAATGATTTATCGTCGCTTTAA
+HWI-EAS443:3:64:594:572#0/1
abaaabb`bbbabbaaa`aaaa^bbaaaa_b``aaa``__
@HWI-EAS443:3:64:693:956#0/1
GGCACACACTAGACCAAAAAGCAGCTTCTGTGGTCACTGTT
+HWI-EAS443:3:64:693:956#0/1
aba[aaababbaa`_abb`aba]a^b``a]_XSVT_Y_
@HWI-EAS443:3:64:75:1513#0/1
CTTTTGGTCTAGTGTGTGCCACTTGTGAACAGATTGCTGA
+HWI-EAS443:3:64:75:1513#0/1
a`a`^_^Za`a]V`Y]]^__a^__^]]^``_`__^]]ZZU^
@HWI-EAS443:3:64:774:618#0/1
GATGCTGTGAATCAGCAATCTGTTACAAGTGGCACACAC
+HWI-EAS443:3:64:774:618#0/1
aa]]aa_Yaaaabaa_aaa````a`aVa``P^¥V_V_a^T
@HWI-EAS443:3:64:863:995#0/1
GACAAGATTGGTCTTGTCTTTAGCCATTCCATGAGAGCCT
+HWI-EAS443:3:64:863:995#0/1
¥¥Z_abbba¥`Yabbb`b``¥^^[Z^`aaZ¥W_^a]V¥b`
@HWI-EAS443:3:64:908:1224#0/1
CAAGTGGCACACACTAGACCAAAAAGCAGCTTCTGTGGTCA
+HWI-EAS443:3:64:908:1224#0/1
abba_aaaaaa`a`___aa`aa`[Vaa`_`a_^VWZ^UW^
@HWI-EAS443:3:64:941:1054#0/1
CATTCTGTTTTCATGCCTGATTAGTGGATTGGTGGTAGTA
+HWI-EAS443:3:64:941:1054#0/1
aabaabbabbabaaa`ab`aba^aa`aaa__a_BBBBB
@HWI-EAS443:3:64:990:1272#0/1
CCACAGAAGCTGCTTTTGGTCTAGTGTGTGCCACTTGTGA
+HWI-EAS443:3:64:990:1272#0/1
aa`aa`aa_a`_Z`^^_^XX^Y`^U]X^X^^^Y]U]XY]
@HWI-EAS443:3:65:1015:2004#0/1
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+HWI-EAS443:3:65:1015:2004#0/1
`VZ`b`W]]TP_HO`^W`ZXX`^QXVa`ZZUHT¥_aZROM
@HWI-EAS443:3:65:1036:1096#0/1
GGCCTCATATACAACAGGATGGGAACAGTGACCACAGAAG

+HWI-EAS443:3:65:1036:1096#0/1
`aaa[a]aa`a`aaYT_a__Z¥__aZaa__`¥Y`_¥¥_^_
@HWI-EAS443:3:65:1089:1457#0/1
CTTTTTTCAAATGTATTTATCGTCGCTTTAAATACGGTT
+HWI-EAS443:3:65:1089:1457#0/1
abb`bbbbbbabb`bbaaaab`abaaaaa`_a__a^a
@HWI-EAS443:3:65:1096:214#0/1
CAAGATTGGTCTTGTCTTTAGCCATTCCATGAGAGCCTCA
+HWI-EAS443:3:65:1096:214#0/1
aaH_aabba`aaba`aab^aaa_aa`_a_aa_a__[_`__¥
@HWI-EAS443:3:65:1117:922#0/1
CTTCTTGAAAATTTGCAGGCCTACCAGAAGCGAATGGGAG
+HWI-EAS443:3:65:1117:922#0/1
abbabb]aabababb`aaaaa_aaa`_`_a__aa_a_a
@HWI-EAS443:3:65:1230:822#0/1
CAGCAATCTGTTCCACAAGTGGCACACACTAGACCAAAAGC
+HWI-EAS443:3:65:1230:822#0/1
aWQ_`a`a]aa_RJa_a_[[Sa``Za^]¥KYGS[V_`RQ
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+HWI-EAS443:3:65:1360:1153#0/1  
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+HWI-EAS443:3:65:1386:440#0/1  
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+HWI-EAS443:3:65:1478:1022#0/1  
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+HWI-EAS443:3:65:1587:2035#0/1  
^`aZ`\_aa\_Q`\_aa]`Q`^U^[W^RZ^`\_`[\_a^`U`[\_X  
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+HWI-EAS443:3:65:1679:966#0/1  
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+HWI-EAS443:3:65:1757:1621#0/1  
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+HWI-EAS443:3:65:257:1085#0/1  
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abb^b`bV^\_]Z`^ZPZS¥\_[VUGL]`S¥X`X\_U^^^TV  
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+HWI-EAS443:3:66:123:311#0/1  
`b\_XRQ[TW^a`aa]\_\_]¥Z\_``\_]`\_]¥Z[WY]W[¥Y  
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+HWI-EAS443:3:66:1254:303#0/1  
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+HWI-EAS443:3:66:1280:1471#0/1  
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GTGGATTACTGATCGTCTTTTTTTCAAATGTATTTATCGT  
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+HWI-EAS443:3:66:1412:1572#0/1  
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¥`a¥`b\_^]a]^XZ\_X\_]a]Sxa\_\_[ab[\_aSaa\_a¥\_X

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ab`aS[W`\_\_\_\_`a\_¥`a\_[U\_\_^[\_aS\_\_\_\_\_WU¥^¥  
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aba\_aa^aa^aa`a^`\_Y]\_\_a]]`[]\_`W[]\_W]YY\_[  
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+HWI-EAS443:3:66:1571:733#0/1  
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aa`bb`bb\_b`aabaaa]``Y[^]¥`\_`¥\_aaaa`\_a\_  
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+HWI-EAS443:3:66:340:1652#0/1  
`^`a¥`^`a^¥a\_a`a`[^T\_]a`^U[^¥¥XZ¥XPZ^X¥[  
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+HWI-EAS443:3:66:574:1762#0/1  
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T\_IXXV`[\_¥¥U`ZQQPNbTRZ\_]P\_`VRWXNW)`U¥a]R  
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+HWI-EAS443:3:66:735:56#0/1  
a\_`Z[¥bV`¥\_QR\_UGS^NT^a`ZZZ]]¥Z]W\_OYY]^¥Z  
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]¥^`\_[[`^aa`\_¥Z`\_X\_¥¥^^^\_YY¥^[[V\_XR^][R  
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+HWI-EAS443:3:67:1042:504#0/1  
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+HWI-EAS443:3:67:1328:337#0/1  
abb¥[W]^\_¥Za\_¥TXY\_Z[L\_\_]]`XZPZ]\_¥^\_Y[\_V]  
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+HWI-EAS443:3:67:1611:525#0/1  
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+HWI-EAS443:3:67:294:2044#0/1  
\_`^`Y¥`a`aab[W`PUaVvb`\_]`^\_V\_V`a`\_`\_`\_¥\_¥  
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+HWI-EAS443:3:67:563:1165#0/1  
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+HWI-EAS443:3:67:608:1683#0/1  
^^\_[\_\_YQ¥aa¥W\_\_`NVPXZG]a]¥VTX\_\_W\_\_a[FX[B  
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+HWI-EAS443:3:67:688:282#0/1  
abaTTabbYbaL¥bZOW^[\`aaa\_¥^aaa^HWa^`aa\_a^  
@HWI-EAS443:3:67:719:938#0/1  
GGCAGATGGTACATGCAATGAGAACTATTGGGACTCATCC  
+HWI-EAS443:3:67:719:938#0/1  
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\_`^^baaba`X`a^bab\_]`]b`aabaa]bX^aa`Z\_`  
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+HWI-EAS443:3:67:849:135#0/1  
a`b`]\_\_aaaa\_\_aa`¥a\_[a`aaa¥¥`a`XU[Z¥\_¥\_  
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aaaaaaa\_\_aa\_`¥`aaa\_`a`\_\_\_`aaaaa\_]\_a\_`\_  
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+HWI-EAS443:3:67:889:964#0/1  
a\_`¥`^^`aa\_aaaa\_\_Ta^^YV^W`U[\_\_\_`\_\_[U\_]\_^`  
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aaaabaaaZ``a`Yaaa¥\_`^aaaa`a]````]\_`¥]X`\_`  
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CATGGGCCTCATATACAACAGGATGGGAACAGTGACCACA  
+HWI-EAS443:3:67:918:389#0/1  
aa`^^`\_`````aaabaaba`aaabaaaa`aU`a]V^^`  
@HWI-EAS443:3:67:940:1543#0/1  
GATCCCAATGATATTTGCTGCAATGACGAGAGGATCACTT  
+HWI-EAS443:3:67:940:1543#0/1  
abaaaabb`Ubaaba`a\_aaab`aaa`a`aa`\_]\_`^\_[



@HWI-EAS443:3:67:978:1401#0/1  
CACAAAGTGGCACACACTAGACCAAAGCAGCTTCTGTGGT  
+HWI-EAS443:3:67:978:1401#0/1  
`[\_ZX\_S\_aa`a^[\`aaa¥ZQOV`¥][N\_ZVVVBBBBBBB  
@HWI-EAS443:3:67:995:183#0/1  
GGCCTCATATACAACAGGATGGGAACAGTGACCACAGAAG  
+HWI-EAS443:3:67:995:183#0/1  
abaabaab^a\_aa\_Z`^`aa\_\_\_a\_]N^\_\_\_¥[``ZW[  
@HWI-EAS443:3:68:1085:467#0/1  
AATACATTTGAAAAAAGACGATCAGTAATCCACAATATC  
+HWI-EAS443:3:68:1085:467#0/1  
`¥a[\`a\_bY^U`^U[^^`\_\_a`SWTYJUZ``WTOW]]U¥U  
@HWI-EAS443:3:68:1113:518#0/1  
CTTGCACCTGATATTGTGGATTACTGATCGTCTTTTTTTC  
+HWI-EAS443:3:68:1113:518#0/1  
a\_a`a```ab^`^ab``^\_abaa]`aa`[\_Y[\`aaaa`[  
@HWI-EAS443:3:68:1188:1685#0/1  
CGGCAAAGGCTATGGAACAGATGGCTGGATCGAGTGAACA  
+HWI-EAS443:3:68:1188:1685#0/1  
a`\_b\_X^a`ZaYa¥]`a]aZ¥aa]]a¥V[[[¥S¥VWG`  
@HWI-EAS443:3:68:1374:990#0/1  
CAAGTGGCACACACTAGACCAAAGCAGCTTCTGTGGTCA  
+HWI-EAS443:3:68:1374:990#0/1  
abbbab\_ababababbaaaa`^aabaaa^aa[aa¥aa^¥`  
@HWI-EAS443:3:68:151:904#0/1  
GCCTCATATACAACAGGATGGGAACAGTGACCACAGAAGC  
+HWI-EAS443:3:68:151:904#0/1  
M[^aaWaU\_ba[a\_T^`UXXabaUabb^bba\_a[T`aaba  
@HWI-EAS443:3:68:1536:1244#0/1  
CTAGTGTGTGCCACTTGTGAACAGATTGCTGATTCACAGC  
+HWI-EAS443:3:68:1536:1244#0/1  
Z¥b`Z]aa]¥\_b]baa````]b]bbababa\_baab``X`a`  
@HWI-EAS443:3:68:1608:644#0/1  
GGCCTCATATACAACAGGATGGGAACAGTGACCACAGAAG  
+HWI-EAS443:3:68:1608:644#0/1  
a]^OV^ZaV`\_GRWXbba¥VVU\_QT^T]]`]PZ\_¥MJ\_a\_  
@HWI-EAS443:3:68:1689:1979#0/1  
CAGTGACCACAGAAGCTGCTTTTGGTCTAGTGTGTGCCAC  
+HWI-EAS443:3:68:1689:1979#0/1  
abb`bbbab`aababbb`aab`a\_b`\_baa\_\_a`[MM`\_  
@HWI-EAS443:3:68:1695:1730#0/1  
GAACAGTGACCACAGAAGCTGCTTTTGGTCTAGTGTGTGC  
+HWI-EAS443:3:68:1695:1730#0/1  
aaabaa\_aaa`\_V^aa\_a\_aa\_aa`PX]ZXL[\_ZSVY  
@HWI-EAS443:3:68:1783:1887#0/1  
GATCGTCTTTTTTCAAATGTATTTATCGTCGCTTTAAAT  
+HWI-EAS443:3:68:1783:1887#0/1  
a]]a\_\_\_aaaa`a`WVY]]][X]^\_\_^[[]URKUPP\_]WSYV  
@HWI-EAS443:3:68:200:922#0/1  
AATCAGACTAGGCAGATGGTACATGCAATGAGAACTATTG

+HWI-EAS443:3:68:200:922#0/1  
^S[a\_aa`a`\_T\_\_[WS`\_]`YKZ`XUY[Z#R\_N[ZX]U  
@HWI-EAS443:3:68:351:185#0/1  
AGTGATCCTCTCGTCATTGCAGCAAATATCATTGGGATCT  
+HWI-EAS443:3:68:351:185#0/1  
\_aZ[^aabaa\_aZU\_aaaa`^`a\_W]W\_#N^\_[^Z`^]\_^  
@HWI-EAS443:3:68:373:1470#0/1  
TCCCATTCGCTTCTGGTAGGCCTGCAAATTTTCAAGAAGG  
+HWI-EAS443:3:68:373:1470#0/1  
`b\_a\_a\_aaa\_\_aU\_\_^\_[]aa\_\_a[WZ[`]`\_X\_[UZP  
@HWI-EAS443:3:68:397:715#0/1  
TGTGAATCAGCAATCTGTTCAAGTGGCACACACTAGAC  
+HWI-EAS443:3:68:397:715#0/1  
aa`^^^aaaabaa`aaa]a\_a^0^aT\_\_`a\_a`[\_^a`^  
@HWI-EAS443:3:68:447:86#0/1  
CTGATATTGTGGATTACTGATCGTCTTTTTTTCAAATGTA  
+HWI-EAS443:3:68:447:86#0/1  
abbababbbabbbbbbbbbbb`abbbbbbbbaabb`a  
@HWI-EAS443:3:68:449:504#0/1  
ATCGTCTTTTTTCAAATGTATTTATCGTCGCTTTAAATA  
+HWI-EAS443:3:68:449:504#0/1  
aabb`aabbabaa^`W`bZaabaa`a^a`\_`a`[\_`\_\_  
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CTCATATACAACAGGATGGGAACAGTGACCACAGAAGCTG  
+HWI-EAS443:3:68:534:1347#0/1  
a`aaaa#\_baa^aaaaa``aaa\_^aa\_\_\_\_\_^\_a`^\_\_\_\_  
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CATGGGGCCAAGGAGGTGCTACTAAGCTATTCAACTGGTG  
+HWI-EAS443:3:68:547:990#0/1  
abba\_bbbabaaaaaaMa#abaaabaaaXaaa]aa#^\_Ya  
@HWI-EAS443:3:68:560:924#0/1  
CAGCAATCTGTTCAAGTGGCACACACTAGACCAAAAGC  
+HWI-EAS443:3:68:560:924#0/1  
Z][bZ[\_b\_#Z\_]#aYa\_YV\_bYU]]a^^]]`Z]\_Zb  
@HWI-EAS443:3:68:625:1318#0/1  
CTCATATACAACAGGATGGGAACAGTGACCACAGAAGCTG  
+HWI-EAS443:3:68:625:1318#0/1  
`^`a`[\_`\_bb\_Q`\_a`\_`abbbba`abaa`a`ab\_Y]^  
@HWI-EAS443:3:68:744:1100#0/1  
CTGGCTAGCACTACGGCAAAGGCTATGGAACAGATGGCTG  
+HWI-EAS443:3:68:744:1100#0/1  
a`bbba]b\_ababb\_b`a[\_^b[aZaaaab`````\_aQaa  
@HWI-EAS443:3:68:749:2003#0/1  
GCCTACCAGAAGCGAATGGGAGTGCAGATGCAGCGATTCA  
+HWI-EAS443:3:68:749:2003#0/1  
`bbZ\_\_`[X`TX`WX`a]#QR]YWaaY\_a^\_ZXVS\_V^  
@HWI-EAS443:3:68:779:372#0/1  
TCGTCTTTTTTCAAATGTATTTATCGTCGCTTTAAATAC  
+HWI-EAS443:3:68:779:372#0/1  
#bb#ab`bbbbaa`^^`L`aabaaaa`a^`aaaWQ[a\_X

@HWI-EAS443:3:68:854:775#0/1  
TGGGCCTCATATACAACAGGATGGGAACAGTGACCACAGA  
+HWI-EAS443:3:68:854:775#0/1  
`baabb\_¥`bbbbba\_^`bb]¥`aaaba^a[`a`a^a`]]  
@HWI-EAS443:3:68:884:30#0/1  
CATGGGCCTCATATACAACAGGATGGGAACAGTGACCACA  
+HWI-EAS443:3:68:884:30#0/1  
aaa`b¥\_abab`aaaaa^`aaZ`^\_VX^adWa][VZX]  
@HWI-EAS443:3:69:103:514#0/1  
AAATGCCCTAAATGGGAATGGGGACCCGAACAACATGGAT  
+HWI-EAS443:3:69:103:514#0/1  
aaa`aaaa`aaa\_aaa]`aZ[\_\_\_\_^]\_\_\_\_^XY]^`]]^  
@HWI-EAS443:3:69:1064:1018#0/1  
TGGGCCTCATATACAACAGGATGGGAACAGTGACCACAGA  
+HWI-EAS443:3:69:1064:1018#0/1  
abaaabbbabbabaaaa\_ba`a```\_a`aZ\_`a`\_`  
@HWI-EAS443:3:69:1118:445#0/1  
GCCGAGATCGCGCAGAGACTGGAAAGTGTCTTTGCAGGAA  
+HWI-EAS443:3:69:1118:445#0/1  
T¥W\_\_\_\_[\_\_W¥`\_\_V\_bb^`aX^b\_MXQV\_\_KQ\_YT¥Q\_  
@HWI-EAS443:3:69:1144:1863#0/1  
GCCTCATATACAACAGGATGGGAACAGTGACCACAGAAGC  
+HWI-EAS443:3:69:1144:1863#0/1  
a^a`ba^baabaa`a`\_]\_`\_]\_a^a`W`a```[a\_\_`X  
@HWI-EAS443:3:69:1199:997#0/1  
ATCAGTAATCCACAATATCAGGTGCAAGATCCCAATGATA  
+HWI-EAS443:3:69:1199:997#0/1  
`b`]^\_^`baabaababaaaa\_]aaaa`a\_\_````aaaa  
@HWI-EAS443:3:69:1220:138#0/1  
ACTGTTCCCATCCTGTTGTATATGAGGCCCATGCAACTGG  
+HWI-EAS443:3:69:1220:138#0/1  
aaabaaaaaab^X\_a\_aa`\_a\_a^^\_aY^^^\_aTX\_XZZU  
@HWI-EAS443:3:69:1230:408#0/1  
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+HWI-EAS443:3:69:1230:408#0/1  
a`babababaabb[bbaaT`aaabYba^aa]aaa\_\_`aa  
@HWI-EAS443:3:69:1275:920#0/1  
CTGTGAGACCGATGCTGTGAATCAGCAATCTGTTCAAG  
+HWI-EAS443:3:69:1275:920#0/1  
abbba`abbabbbabba`baaa`bb`bbbaaba`^\_\_aa`  
@HWI-EAS443:3:69:1312:1097#0/1  
CCTCCTTGGCCCCATGGAACGTTATTTCTCTTTTGAGCTT  
+HWI-EAS443:3:69:1312:1097#0/1  
aaaaaaaa``aaaaaaaa`b\_a`aaaaaaaa`a`aaa]]\_aa  
@HWI-EAS443:3:69:1398:892#0/1  
GATCCCAATGATATTTGCTGCAATGACGAGAGGATCACTT  
+HWI-EAS443:3:69:1398:892#0/1  
`\_aa`^]Zaa\_]\_^aaa`a^Q[`^a]]`¥a\_aaYZWXY^`  
@HWI-EAS443:3:69:1646:646#0/1  
GCCACTTGTGAACAGATTGCTGATTACAGCATCGGTCTC

+HWI-EAS443:3:69:1646:646#0/1  
aaababbbbbb`bbabb`bbbaa\_b\_aa\_`a\_ba^^a]  
@HWI-EAS443:3:69:1689:1252#0/1  
AAGAGAAATAACGTTCCATGGGGCCAAGGAGGTGTCACCTA  
+HWI-EAS443:3:69:1689:1252#0/1  
\_Z\_\_\_\_[\_[``UT[XW[XZ]R^aUZ]aaa[``\_Q^Y^]V\_]`  
@HWI-EAS443:3:69:182:154#0/1  
AAGCTATTCAACTGGTGCACCTGCCAGTTGCATGGGCCCTC  
+HWI-EAS443:3:69:182:154#0/1  
`\_Z\_`U[YG[ZVQMJYYVV[SUVXYTTWUXLVSVWVWWT  
@HWI-EAS443:3:69:187:241#0/1  
GTGAATCAGCAATCTGTTCAAGTGGCACACACTAGACC  
+HWI-EAS443:3:69:187:241#0/1  
\_[\_`Y```aY`^`^X]Y]¥¥\_`\_]TUV¥^Ua¥XSS[ ]NUU  
@HWI-EAS443:3:69:216:135#0/1  
GTCTAGTGTGTGCCACTTGTGAACAGATTGCTGATTCACA  
+HWI-EAS443:3:69:216:135#0/1  
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@HWI-EAS443:3:69:222:732#0/1  
GATGGTACATGCAATGAGAATTTGGGACTCATCCTAGC  
+HWI-EAS443:3:69:222:732#0/1  
a¥^aaWa\_IU``\_[\_ZR[P`¥`¥`\_\_^W\_^UJ^`¥^`¥¥  
@HWI-EAS443:3:69:246:882#0/1  
TGTGTGCCACTTGTGAACAGATTGCTGATTCACAGCATCG  
+HWI-EAS443:3:69:246:882#0/1  
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@HWI-EAS443:3:69:247:1791#0/1  
TGTGAATCAGCAATCTGTTCAAGTGGCACACACTAGAC  
+HWI-EAS443:3:69:247:1791#0/1  
`WUX\_W¥a]\_b`^`b^^]aa\_ZbaXLZY\_`aaaa`]a\_`^  
@HWI-EAS443:3:69:317:353#0/1  
CAAGTGGCACACACTAGACAAAAGCAGCTTCTGTGGTCA  
+HWI-EAS443:3:69:317:353#0/1  
Q\_a\_RZV¥aa\_\_\_\_^¥abbbbbb`abba^^`a`\_Z\_\_V]Y  
@HWI-EAS443:3:69:386:1840#0/1  
TGATCGTCTTTTTTTCAAATGTATTTATCGTCGCTTTAAA  
+HWI-EAS443:3:69:386:1840#0/1  
`aaa`^^abbbabbabbaaa]T\_`aabba\_b¥\_a\_\_ba`  
@HWI-EAS443:3:69:401:599#0/1  
GGGCCTCATATACAACAGGATGGGAACAGTGACCACAGAA  
+HWI-EAS443:3:69:401:599#0/1  
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@HWI-EAS443:3:69:401:812#0/1  
GACAAGATTGGTCTTGTCTTTAGCCATTCCATGAGAGCCT  
+HWI-EAS443:3:69:401:812#0/1  
`ba`a^aab]a`aaabaaa`aaaaaaa`aaaaa`a\_`a^  
@HWI-EAS443:3:69:403:958#0/1  
TCTGTGGTCACTGTTCCCATCCTGTTGTATATGAGGCCCA  
+HWI-EAS443:3:69:403:958#0/1  
a\_a`\_a\_\_bbaa¥[a\_a`]^a¥`T[VZZ¥^]Y¥¥\_^\_\_

@HWI-EAS443:3:69:414:637#0/1  
TGTGGATTACTGATCGTCTTTTTTCAAATGTATTTATCG  
+HWI-EAS443:3:69:414:637#0/1  
aa`baaaa`~~~~~`]`a`aaaa`^`Z`\_`V]`a`~~~~^  
@HWI-EAS443:3:69:59:1275#0/1  
CTCCTTGCCCCATGGAACGTTATTTCTCTTTTGAGCTTC  
+HWI-EAS443:3:69:59:1275#0/1  
a`aa^\_\_\_aaaa]X¥^\_`Z¥[\_]^\_]\_^N¥^W]]\_]Y^  
@HWI-EAS443:3:69:663:1109#0/1  
CAACAGGATGGGAACAGTGACCACAGAAGCTGCTTTTGGT  
+HWI-EAS443:3:69:663:1109#0/1  
`ZX¥¥\_]WGZ]^N¥aYQM[]a]V¥aUYV]BBBBBBBBBB  
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+HWI-EAS443:3:69:689:1482#0/1  
aaa\_\_\_`\_aZaaa\_^`\_a\_a^aa\_\_\_a\_a^U`¥]^a\_\_\_^  
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CATGGGCCTCATATACAACAGGATGGGAACAGTGACCACA  
+HWI-EAS443:3:69:705:1934#0/1  
aaaa¥aababb\_baaabaaa\_^`\_`aaa`U^a\_\_\_aa  
@HWI-EAS443:3:69:783:675#0/1  
GCACCTGATATTGTGGATTACTGATCGTCTTTTTTTCAAA  
+HWI-EAS443:3:69:783:675#0/1  
aaaaaaaa\_aaa`a]`a\_a\_a\_^a\_\_\_a^`\_`\_`\_`]^a\_\_\_  
@HWI-EAS443:3:69:891:100#0/1  
ATACATTTGAAAAAAGACGATCAGTAATCCACAATATCA  
+HWI-EAS443:3:69:891:100#0/1  
aaaaabbabaa```a\_a^a\_a^¥Ta]\_\_^X^\_[`^]]YX¥  
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TGTGAATCAGCAATCTGTTCAAGTGGCACACACTAGAC  
+HWI-EAS443:3:69:998:1301#0/1  
\_b`ba\_bbbb]ababbbaabaaaa\_aa¥babbabaaaa  
@HWI-EAS443:3:6:1081:292#0/1  
GAGACCGATGCTGTGAATCAGCAATCTGTTCAAGTGGC  
+HWI-EAS443:3:6:1081:292#0/1  
aa]¥aaa`a\_\_\_a`\_`Y[^Z^`\_]\_]S\_\_\_]\_W^Y^^^XX]B  
@HWI-EAS443:3:6:121:547#0/1  
GGGCCAAGGAGGTGCTACTAAGCTATTCAACTGGTGCCT  
+HWI-EAS443:3:6:121:547#0/1  
aaaababaaa`a\_baababa\_baaaaa``a`]a¥^a^`^a  
@HWI-EAS443:3:6:1236:1970#0/1  
GAAAGATGACCTTCTTAAAATTTGCAGGCCTACCAGAAG  
+HWI-EAS443:3:6:1236:1970#0/1  
U```ZM`ba\_\_WW¥``ZTR¥b]`]PSXUOZ]¥¥S\_aUVa  
@HWI-EAS443:3:6:1320:1624#0/1  
AAGTGTCTTTGCAGGAAAGAACACAGATCTTGAGGCTCTC  
+HWI-EAS443:3:6:1320:1624#0/1  
ab\_`bSa`aa¥]^a`^]\_`Z\_]`W`\_\_\_[`\_\_¥\_]`^Z]V  
@HWI-EAS443:3:6:1332:1594#0/1  
GACCACAGAAGCTGCTTTTGGTCTAGTGTGTGCCACTTGT

+HWI-EAS443:3:6:1332:1594#0/1  
aba[a\_aa\_IaJ`V)`\_SR`RGUX¥XY\_TUU`XXRUG\_ZB  
@HWI-EAS443:3:6:1418:1231#0/1  
GCGCAGAGACTGGAAAGTGTCTTTGCAGGAAAGAACACAG  
+HWI-EAS443:3:6:1418:1231#0/1  
`b]ba[]`\_abV¥a\_TR\_aVa\_^XXV¥WV\_^X`¥GZ¥`\_  
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CGCTGCATCTGCACTCCCATTTCGCTTCTGGTAGGCCTGCA  
+HWI-EAS443:3:6:276:93#0/1  
ab\_)`Raba\_ba`\_a`¥\_\_\_\_aW`\_]Z`¥W¥`\_SQ^[¥^  
@HWI-EAS443:3:6:465:1180#0/1  
ATCAGACTAGGCAGATGGTACATGCAATGAGAACTATTGG  
+HWI-EAS443:3:6:465:1180#0/1  
]^aW`^Z¥aUH^\_bTa`\_`\_a\_Q^ZPZ]aaaa^aY\_^aa\_  
@HWI-EAS443:3:6:484:55#0/1  
CAAGATTGGTCTTGTCTTTAGCCATTCCATGAGAGCCTCA  
+HWI-EAS443:3:6:484:55#0/1  
X\_abYUbbaabbUbUa`^Xb^J[]babaU\_a```\_U`a0^  
@HWI-EAS443:3:6:487:70#0/1  
GAACAGTGACCACAGAAGCTGCTTTTGGTCTAGTGTGTGC  
+HWI-EAS443:3:6:487:70#0/1  
a¥H\_\_`Y`^^^¥\_\_`[^V]`V^VY]X]]OQTRYXX^BBB  
@HWI-EAS443:3:6:587:1293#0/1  
TGGGAGTGACAGATGCAGCGATTCAAGTGATCCTCTCGTCA  
+HWI-EAS443:3:6:587:1293#0/1  
aa]¥`a¥aYaaaQa\_aa\_a[Z\_U^`\_U`^UW¥Q[M^UQ¥  
@HWI-EAS443:3:6:591:1704#0/1  
GGAACAGTGACCACAGAAGCTGCTTTTGGTCTAGTGTGTG  
+HWI-EAS443:3:6:591:1704#0/1  
`bbbLPZQY`GTbQQ]Y`YPPQ[aa\_Y^DXN^\_a[SBBBB  
@HWI-EAS443:3:6:63:1099#0/1  
GGAACAGTGACCACAGAAGCTGCTTTTGGTCTAGTGTGTG  
+HWI-EAS443:3:6:63:1099#0/1  
aaaaa¥b¥a`aa¥^aa`\_¥aa¥```a`W^\_a\_\_\_\_¥`T^  
@HWI-EAS443:3:6:667:1374#0/1  
GCACACACTAGACAAAAGCAGCTTCTGTGGTCACTGTTC  
+HWI-EAS443:3:6:667:1374#0/1  
abab\_)`aab^\_aba]``aa`aa`b`\_a]Z]XVa[\_a[^X  
@HWI-EAS443:3:6:671:973#0/1  
GGGCCTCATATACAACAGGATGGGAACAGTGACCACAGAA  
+HWI-EAS443:3:6:671:973#0/1  
aabaa\_aaabaa`aa`\_b[[Z¥\_^T]T]Y^\_aZ^^[`^^^  
@HWI-EAS443:3:6:711:1634#0/1  
CAGGCCTACCAGAAGCGAATGGGAGTGACAGATGCAGCGAT  
+HWI-EAS443:3:6:711:1634#0/1  
^WVW\_¥F¥ZaWbRWWIX^^`TTIbX]VaaaRb``]ab\_B  
@HWI-EAS443:3:6:773:126#0/1  
ATCCCAATGATATTTGCTGCAATGACGAGAGGATCACTTG  
+HWI-EAS443:3:6:773:126#0/1  
a]`aX^bbb`\_`baaa\_aa```]a\_^]a^]`\_`^VZ^¥`UU

@HWI-EAS443:3:6:797:1830#0/1  
GACCGATGCTGTGAATCAGCAATCTGTTCCACAAGTGGCAC  
+HWI-EAS443:3:6:797:1830#0/1  
`\_a`\_`\_a`b`¥ba\_\_a\_U\_abaaa`\_]a[bba\_ab` `B  
@HWI-EAS443:3:6:873:1321#0/1  
CTACGGCAAAGGCTATGGAACAGATGGCTGGATCGAGTGA  
+HWI-EAS443:3:6:873:1321#0/1  
^bbb[[\_J]abb[\_bb\_]`^]`^aQWaaaabXQ`a]]P]B  
@HWI-EAS443:3:6:892:1584#0/1  
ATCATTGGGATCTTGCACCTGATATTGTGGATTACTGATC  
+HWI-EAS443:3:6:892:1584#0/1  
aaaa`Ya`aa\_a``aaa\_^aa]a\_a\_a]a`\_\_`a^\_a\_\_^  
@HWI-EAS443:3:6:918:184#0/1  
CGTCATTGCAGCAAATATCATTGGGATCTTGCACCTGATA  
+HWI-EAS443:3:6:918:184#0/1  
aaa`babb\_bbbaaaaaaaaaaaa\_a^aYa`a]a^Zaa\_\_^  
@HWI-EAS443:3:70:1104:978#0/1  
GGCCAAGGAGGTGTCACCTAAGCTATTCAACTGGTGCACCT  
+HWI-EAS443:3:70:1104:978#0/1  
V¥`abb]bbb]b`aabba\_\_aa``aa\_\_a`ba\_baaaaa  
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+HWI-EAS443:3:70:1374:701#0/1  
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+HWI-EAS443:3:70:261:944#0/1  
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@HWI-EAS443:3:70:529:1747#0/1  
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+HWI-EAS443:3:70:573:1103#0/1  
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+HWI-EAS443:3:70:634:345#0/1  
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+HWI-EAS443:3:70:682:1250#0/1  
aba```a\_\_a\_]a]`a\_a\_W^a`^^a\_`\_`\_¥^a^]\_]¥  
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CAAGTGGCACACACTAGACCAAAGCAGCTTCTGTGGTCA  
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aY[a`\_aa`^^\_a\_\_aaa¥[Yabaa`aXU^\_a\_\_`\_X\_¥\_  
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+HWI-EAS443:3:70:883:30#0/1  
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X`\_¥R\_¥a¥`bb^¥^`aa`¥b`W`RV`\_SYa\_Za\_¥[`a  
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XY`a\_\_[]V\_RT^¥\_¥\_[^\_\_\_\_[`R\_\_¥[\_¥^\_X¥\_TDY\_  
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+HWI-EAS443:3:71:1244:287#0/1  
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W[bbb`a`\_ab`U[bb^¥`Zab\_Z^Z^\_\_^a^Wam`ZNZ]  
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CGCAGAGACTGGAAAGTGTCTTTGCAGGAAAGAACACAGA  
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^WaY`\_Z¥`a\_\_¥`\_]W`aZV^VX`\_^a^^ZZ`^^^^  
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a\_^X][W`a`\_`\_`aaa`^¥Z]\_\_\_`\_[\_Y\_]YZ[PSSZ  
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+HWI-EAS443:3:71:1787:1365#0/1  
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+HWI-EAS443:3:71:418:542#0/1  
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aa`aa¥abaaaa\_\_aa`[]aa`aUaa\_\_aaa`\_`^`\_`]^  
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a`]^`¥aaaaYT]a¥¥a`\_`\_`XVSY]XPY¥[\_\_^S¥ZM  
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\_`^\_abaaab`aabbab\_aaabaaaa]aaa`abb`aa\_]`^  
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+HWI-EAS443:3:71:850:461#0/1  
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aa``a`a^Y\_aY`a`¥\_`a\_]^^U[``^\_a^^Y\_X[Y\_  
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+HWI-EAS443:3:72:1124:1271#0/1  
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CAAGATTGGTCTTGTCTTTAGCCATTCCATGAGAGCCTCA  
+HWI-EAS443:3:72:1144:621#0/1  
aaab`bbbbaabbbbaababaaaaabaa`abaaa`b\_[\_`a  
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+HWI-EAS443:3:72:1180:220#0/1  
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+HWI-EAS443:3:72:1234:1893#0/1  
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+HWI-EAS443:3:72:1260:1220#0/1  
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ab^Z^aaaaaa`aa`aaa\_a`aa`\_a\_aa]`aZ``Za`]  
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+HWI-EAS443:3:72:1324:1188#0/1  
I\_b[`\_\_Waa\_a`¥\_[a`ba\_a]ZUa\_¥Z¥\_\_^]\_TW]H\_  
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aa\_¥\_bb\_aa]Z\_aaaaa^^^aa`aa\_``^X``\_aR¥`¥\_  
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+HWI-EAS443:3:72:1586:1251#0/1  
^aV]\_\_a¥\_baZ\_¥Z\_b`baba`\_`b]a``¥a\_] [ZV]`^  
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+HWI-EAS443:3:72:1615:1348#0/1  
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+HWI-EAS443:3:72:246:242#0/1  
aaa]\_\_`^a]a¥\_]\_aW¥^]^^WZM]¥UWW¥¥W¥^U^WW  
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CAGCAATCTGTTTACAAGTGGCACACACTAGACCAAAAGC  
+HWI-EAS443:3:72:298:1540#0/1  
a[]\_S¥\_¥aXW]\_`]a`SNV[aaaW``ZYZTQXX`X`]P¥  
@HWI-EAS443:3:72:333:636#0/1  
ATTTGCTGCAATGACGAGAGGATCACTTGAATCGCTGCAT  
+HWI-EAS443:3:72:333:636#0/1  
Uaa\_``VW\_\_Z\_[¥]Y¥^]V\_H^]]]]\_`^Z\_R]T¥ZPW[Q  
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GAACAGTGACCACAGAAGCTGCTTTTGGTCTAGTGTGTGC  
+HWI-EAS443:3:72:351:1098#0/1  
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[aZa¥RHY`abb¥`a\_a]a`[`¥``Uaaaba]\_\_`Z^Y¥`  
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abaa`\_abaa`aaaaaa`\_a`a`a\_\_\_\_`\_`^[[Z^^¥`  
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+HWI-EAS443:3:72:403:160#0/1  
a`Waa\_Y\_`Waa`Xaaaa^a\_¥¥`\_¥\_\_ZZ``aa^X``^a  
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+HWI-EAS443:3:72:651:828#0/1
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+HWI-EAS443:3:72:744:98#0/1
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+HWI-EAS443:3:72:868:419#0/1
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+HWI-EAS443:3:72:933:607#0/1
aababaabaaaaa_aaaaaaa]`aaa_aaaaa_aaaa`_`
@HWI-EAS443:3:72:957:854#0/1
AGGATGGGAACAGTGACCACAGAAGCTGCTTTTGGTCTAG

+HWI-EAS443:3:72:957:854#0/1
abb_abbbaaab^abbaaabab`]aa`_aa`aY^Z]`a`
@HWI-EAS443:3:72:991:1022#0/1
AGACGATCAGTAATCCACAATATCAGGTGCAAGATCCCAA
+HWI-EAS443:3:72:991:1022#0/1
]^a^_aY`NT____]SZ[¥_]WPWW`ZUSX^[¥]YTW¥_
@HWI-EAS443:3:73:1141:763#0/1
TTCCGGTCCCCATTCCCATTTAGGGCATTGACAAAAGC
+HWI-EAS443:3:73:1141:763#0/1
aaa]``ba`_¥_aaa`baa_a_^a^_a`a`]`¥```__
@HWI-EAS443:3:73:1182:1774#0/1
AAAGCAGCTTCTGTGGTCACTGTTCCCATCCTGTTGTATA
+HWI-EAS443:3:73:1182:1774#0/1
a_a`baa_a]`G__RU^N]_] [V_] [¥RZUW^VM_X]
@HWI-EAS443:3:73:1240:1981#0/1
CACCAGTTGAATAGCTTAGTGACACCTCCTGGCCCCATG
+HWI-EAS443:3:73:1240:1981#0/1
a_ba_a_b`baaaa`_a`_0_a`ZN]_^][S_^`0Z_^`
@HWI-EAS443:3:73:1380:748#0/1
CAGTGACCACAGAAGCTGCTTTTGGTCTAGTGTGTGCCAC
+HWI-EAS443:3:73:1380:748#0/1
abb^bbbbbabab]_X_ab]__bb][_aaa_a`a[aX^a`
@HWI-EAS443:3:73:1523:2027#0/1
GTCCCCATTCCCATTTAGGGCATTGACAAAAGCGTCTA
+HWI-EAS443:3:73:1523:2027#0/1
`bbbbbbbabbbbabaaaaabbaaaaaaba``a__aa
@HWI-EAS443:3:73:1573:413#0/1
GAAAATTTGCAGGCCTACCAGAAGCGAATGGGAGTGCAGA
+HWI-EAS443:3:73:1573:413#0/1
XVOUH^UXW¥VSSYYUVPHU¥Z[]Xa^Q¥_YRPUWa^[[U
@HWI-EAS443:3:73:1613:878#0/1
GTGGATTACTGATCGTCTTTTTTTCAAATGTATTTATCGT
+HWI-EAS443:3:73:1613:878#0/1
]F^Y[YaaY^_^]Y`X^aa`_aa]VY[``][`^U^X^P
@HWI-EAS443:3:73:1627:731#0/1
CTGTGAATCAGCAATCTGTTCAAGTGGCACACACTAGA
+HWI-EAS443:3:73:1627:731#0/1
abb`_^_a]`^W_aa]baS`]a_baa`_b`_P````a``_
@HWI-EAS443:3:73:1661:934#0/1
ACTGATCGTCTTTTTTTCAAATGTATTTATCGTCGCTTTA
+HWI-EAS443:3:73:1661:934#0/1
a^ab`aab_aaaaaaa^`X`abW`aa_aa]a¥Pa¥`a_U
@HWI-EAS443:3:73:1779:321#0/1
GTGCAGATGCAGCGATTCAAGTGATCCTCTCGTCATTGCA
+HWI-EAS443:3:73:1779:321#0/1
`[_`_] [Y[]^`^^XVOYNS_WaXWWZ]P[U]QLZWZ[QS
@HWI-EAS443:3:73:215:1234#0/1
CAGTGACCACAGAAGCTGCTTTTGGTCTAGTGTGTGCCAC
+HWI-EAS443:3:73:215:1234#0/1
aa]YaZaa_a__a`_`_]_Y^]^[^]V[Y_RV_W]V]YY]]

@HWI-EAS443:3:73:25:1828#0/1
CATGGGGCCAAGGAGGTGTCACCTAAGCTATTCAACTGGTG
+HWI-EAS443:3:73:25:1828#0/1
`R_aa`X_a]W`aVUFH_V_b_]T[P__`_P^``]PTQSQ
@HWI-EAS443:3:73:418:1660#0/1
CAGTGACCACAGAAGCTGCTTTTGGTCTAGTGTGTGCCAC
+HWI-EAS443:3:73:418:1660#0/1
``a^a`baaaaYa_[__^WY]a`VRRR¥ZSGR^XNSPW¥
@HWI-EAS443:3:73:44:1762#0/1
AACAGGATGGGAACAGTGACCACAGAAGCTGCTTTTGGTC
+HWI-EAS443:3:73:44:1762#0/1
_`_T[[]`VYT]`¥U¥JX`_`TYY[`Y[YTPMQRXRNUWZ
@HWI-EAS443:3:73:472:1149#0/1
GGGAACAGTGACCACAGAAGCTGCTTTTGGTCTAGTGTGT
+HWI-EAS443:3:73:472:1149#0/1
___aWaa]Vabbaabb`_Va`aabaaaa`_aZZ]Q`¥_Y
@HWI-EAS443:3:73:51:483#0/1
CAATGACGAGAGGATCACTTGAATCGCTGCATCTGCACTC
+HWI-EAS443:3:73:51:483#0/1
a`Ta`_ababaaaa[`¥aaa]aa[`¥`]Y_aZ^^a`_^Z¥
@HWI-EAS443:3:73:578:1029#0/1
GTGACCACAGAAGCTGCTTTTGGTCTAGTGTGTGCCACTT
+HWI-EAS443:3:73:578:1029#0/1
a]aabb`bb^bb`b`aaaa`aa^a`a`^a^aYZ`_]^^¥
@HWI-EAS443:3:73:589:462#0/1
ATTGCATGTACCATCTGCCTAGTCTGATTAGCAACCTCCA
+HWI-EAS443:3:73:589:462#0/1
aaaa]aaaaaWVZPX]b¥`_]`_JUXI_XV`[OaRWY[PSa
@HWI-EAS443:3:73:637:1364#0/1
TTCGCTTCTGGTAGGCCTGCAAATTTTCAAGAAGGTCATC
+HWI-EAS443:3:73:637:1364#0/1
ZVZab[[]ba`P^ZUaa`aaa`OM]``aa_]`XWV¥Wa`a`
@HWI-EAS443:3:73:672:353#0/1
TATCAGGTGCAAGATCCCAATGATATTTGCTGCAATGACG
+HWI-EAS443:3:73:672:353#0/1
aaaaa]_Ya`aa`a`aaaa^_a`a`a[Xa¥_a`a]^`
@HWI-EAS443:3:74:1021:220#0/1
GACCGATGCTGTGAATCAGCAATCTGTTCAAGTGGCAC
+HWI-EAS443:3:74:1021:220#0/1
aa_aaaaaaaaa_baYW¥Zb^aa`Qa^^`[_T[[[Y_RN_U
@HWI-EAS443:3:74:1069:230#0/1
GGAACAGTGACCACAGAAGCTGCTTTTGGTCTAGTGTGTG
+HWI-EAS443:3:74:1069:230#0/1
abYaM`a]bbRX_a^``__Y][____]Y_HHPL_`VXTXGY
@HWI-EAS443:3:74:1378:884#0/1
CTACCAGAAGCGAATGGGAGTGAGATGCAGCGATTCAAG
+HWI-EAS443:3:74:1378:884#0/1
ab_abab]ab___aaaababXaaab_aa^ba^`]`a`a`Z
@HWI-EAS443:3:74:1582:513#0/1
ACCTGATATTGTGGATTACTGATCGTCTTTTTTTTCAAATG

+HWI-EAS443:3:74:1582:513#0/1
ab`abababbbabbababbabbaab]aaababbb^aa`aa
@HWI-EAS443:3:74:1723:1567#0/1
AACAGGATGGGAACAGTGACCACAGAAGCTGCTTTTGGTC
+HWI-EAS443:3:74:1723:1567#0/1
aa`ab`a[`abZaaaaVabaaa_a_]aa`_W[a`_^VZ^N
@HWI-EAS443:3:74:182:217#0/1
ATCTGTTCACAAGTGGCACACACTAGACCAAAGCAGCTT
+HWI-EAS443:3:74:182:217#0/1
ab`aa_a`aab`_]_aaa_`aa]_`^`^^[¥`_`___`_]`_^
@HWI-EAS443:3:74:185:1376#0/1
TGGGCCTCATATACAACAGGATGGGAACAGTGACCACAGA
+HWI-EAS443:3:74:185:1376#0/1
]SRU_aU¥b]U`Zbbabaaa_[aaa^aaa_Zaaa`a`_^¥
@HWI-EAS443:3:74:208:1444#0/1
CTGTGAATCAGCAATCTGTTCCACAAGTGGCACACACTAGA
+HWI-EAS443:3:74:208:1444#0/1
Yaab``Yabbbab`bbbbaaa]`Xaa][ZbbbYbba^`bb
@HWI-EAS443:3:74:252:1075#0/1
CTGTGAATCAGCAATCTGTTCCACAAGTGGCACACACTAGA
+HWI-EAS443:3:74:252:1075#0/1
_S_R^[]_a`^^`XX^W`X]a__Z[HS]R[SQ[^_]UP¥
@HWI-EAS443:3:74:272:345#0/1
GTGCCACTTGTGAACAGATTGCTGATTCACAGCATCGGTC
+HWI-EAS443:3:74:272:345#0/1
a_Z`_baa_b`a]¥^aa`[Xa_```_]`_aa_____]QW
@HWI-EAS443:3:74:489:721#0/1
GTGAATCAGCAATCTGTTCCACAAGTGGCACACACTAGACC
+HWI-EAS443:3:74:489:721#0/1
a_aa````__aa``_aa^a`aaaa`[]¥^````]`a^`__¥W
@HWI-EAS443:3:74:587:750#0/1
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+HWI-EAS443:3:74:587:750#0/1
aababbbbbb`aabaa]aaaaaaaaabab_aYba`b]YV
@HWI-EAS443:3:74:635:215#0/1
GGCCTCATATACAACAGGATGGGAACAGTGACCACAGAAG
+HWI-EAS443:3:74:635:215#0/1
aaaaabbbbaabaaa_abb`aaa_¥a¥aa^`_^``^`_
@HWI-EAS443:3:74:68:1413#0/1
CTTGCACCTGATATTGTGGATTACTGATCGTCTTTTTTTC
+HWI-EAS443:3:74:68:1413#0/1
aaY[_`a_]`¥X_```Wa`¥`^a_]JX_¥a]V]__`YO
@HWI-EAS443:3:74:751:1679#0/1
GGAATGGGGACCCGAACAACATGGATAGAGCAGTTAAACT
+HWI-EAS443:3:74:751:1679#0/1
`^bbaabbbbbbba`bbbb`bba`ab`abaa]YV]¥]b`U^
@HWI-EAS443:3:74:916:753#0/1
ATCGTCTTTTTTCAAATGTATTTATCGTCGCTTTAAATA
+HWI-EAS443:3:74:916:753#0/1
`abbabbbbbbba^`bba`^_bbaaaa`a`¥aa_]Y]a^

@HWI-EAS443:3:74:917:1361#0/1
CAGTGACCACAGAAGCTGCTTTTGGTCTAGTGTGTGCCAC
+HWI-EAS443:3:74:917:1361#0/1
a`]Sabaa_bbabbaaYa`aaaaZ]¥b_``]a[`Sa¥^aV
@HWI-EAS443:3:75:1088:1077#0/1
GTGCAGATGCAGCGATTCAAGTGATCCTCTCGTCATTGCA
+HWI-EAS443:3:75:1088:1077#0/1
a`baaaaaa`baaaaaaaa`_aaa^_a`_`_a¥SZ__[``
@HWI-EAS443:3:75:1350:401#0/1
CACTGGAGCTAGGATGAGTCCCAATAGTTCTCATTGCATG
+HWI-EAS443:3:75:1350:401#0/1
a`_aXV`_[W`Saa`bab^ON^^`aS¥S^]b`abbaXaab
@HWI-EAS443:3:75:1443:604#0/1
GGAACAGTGACCACAGAAGCTGCTTTTGGTCTAGTGTGTG
+HWI-EAS443:3:75:1443:604#0/1
aaab_aa¥ba_Y_Y`a^_W_Z[``_`^W¥___¥`W_T_
@HWI-EAS443:3:75:1451:758#0/1
TGACAAGATTGGTCTTGTCTTTAGCCATTCCATGAGAGCC
+HWI-EAS443:3:75:1451:758#0/1
abb``bbaZ^bb^LbbaVa`]baa[]baa`N^`Y_aaa¥a
@HWI-EAS443:3:75:1492:1088#0/1
CACTAAGCTATTCAACTGGTGCACTTGCCAGTTGCATGGG
+HWI-EAS443:3:75:1492:1088#0/1
`b]bbba`b`baaba]bbbaabaabbbbaV`abaaabbbb
@HWI-EAS443:3:75:149:515#0/1
TTGGGATCTTGCACCTGATATTGTGGATTACTGATCGTCT
+HWI-EAS443:3:75:149:515#0/1
¥_aVWXQ`a``aaa`b_H^aaba``Yaaa_]`Y[a`^Z`a
@HWI-EAS443:3:75:152:537#0/1
GACCACAGAAGCTGCTTTTGGTCTAGTGTGTGCCACTTGT
+HWI-EAS443:3:75:152:537#0/1
abbbba`W`aa`baaaaaaaaaZa`ba_a_a__aaaa`_`^
@HWI-EAS443:3:75:1616:1206#0/1
CACACACTAGACCAAAGCAGCTTCTGTGGTCACTGTTCC
+HWI-EAS443:3:75:1616:1206#0/1
V`_abb`b`aaWaabbbba`aa`bbZa`_`b^bbXa`a`QU
@HWI-EAS443:3:75:1667:332#0/1
GGGATCTTGCACCTGATATTGTGGATTACTGATCGTCTTT
+HWI-EAS443:3:75:1667:332#0/1
``aa[JYbb¥YN¥`aaaa__N`b_aaa]abaa]aYYaaa
@HWI-EAS443:3:75:221:1738#0/1
CTTGCACCTGATATTGTGGATTACTGATCGTCTTTTTTTC
+HWI-EAS443:3:75:221:1738#0/1
a_^¥aa`Y^U_aaa^WX]¥¥^^Z¥[[^][XT_[Y]____]^
@HWI-EAS443:3:75:241:686#0/1
CGAGAGGATCACTTGAATCGCTGCATCTGCACTCCCATTC
+HWI-EAS443:3:75:241:686#0/1
abRb[]`WYaaWOV`^¥YLE[[MNTKTR^¥UTT^T¥SPMX
@HWI-EAS443:3:75:271:343#0/1
CAGTGACCACAGAAGCTGCTTTTGGTCTAGTGTGTGCCAC

+HWI-EAS443:3:75:271:343#0/1
WWZT_]`¥X_]X`a^`^aa_]RF[ZZZLWM[XZJR¥V
@HWI-EAS443:3:75:28:1773#0/1
CTCTCATGGAATGGCTAAAGACAAGACCAATCTTGTCACC
+HWI-EAS443:3:75:28:1773#0/1
aababb]]]a_aY`b_a`¥SSYY]PZ_]NT^[_S[^`_^
@HWI-EAS443:3:75:39:14#0/1
GCAAGATCCCAATGATATTTGCTGCAATGACGAGAGGATC
+HWI-EAS443:3:75:39:14#0/1
aZWZ_¥ST^UW¥_[LVX[YSUPGYJTNUVTTZLYVWUVVV
@HWI-EAS443:3:75:444:1880#0/1
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+HWI-EAS443:3:75:444:1880#0/1
a`a`][a`XUT¥aa_`^XT^^]`[WQ¥^PT_^`YRQY¥W
@HWI-EAS443:3:75:468:855#0/1
CTTGTGAACAGATTGCTGATTCACAGCATCGGTCTCACAG
+HWI-EAS443:3:75:468:855#0/1
abbbabbbbabababbbbaaaaaaaaaaaaaaaZ__`]]`
@HWI-EAS443:3:75:61:85#0/1
ATCCCAATGATATTTGCTGCAATGACGAGAGGATCACTTG
+HWI-EAS443:3:75:61:85#0/1
a`a_aaa`a_aa_¥Z`a`a]]`aY_a_a_a_VQRYU]_Z
@HWI-EAS443:3:75:684:1875#0/1
CAAGATTGGTCTTGTCTTTAGCCATTCCATGAGAGCCTCA
+HWI-EAS443:3:75:684:1875#0/1
ab`]babba_baabab`a`babaaa`bba`_b_a_aaa_a
@HWI-EAS443:3:75:695:167#0/1
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+HWI-EAS443:3:75:695:167#0/1
_`a`ZaaZV¥`Xb]HQUaZabaa`]aa`IR`ZKaVJ_WX`
@HWI-EAS443:3:75:727:1331#0/1
CTTAGTCAGAGGTGACAAGATTGGTCTTGTCTTTAGCCAT
+HWI-EAS443:3:75:727:1331#0/1
ab^¥Y[``^V^Ta`¥aaa_`VV`_¥Ta`a`U`a`Y
@HWI-EAS443:3:75:733:790#0/1
GGGGACCCGAACAACATGGATAGAGCAGTTAAACTATACA
+HWI-EAS443:3:75:733:790#0/1
ab]`_aY^^]J[`ZGPUaa`^]WO`WFQLQTWWFZ^LNDR
@HWI-EAS443:3:75:821:1659#0/1
TTTTCAAATGTATTTATCGTCGCTTTAAATACGGTTTGAAA
+HWI-EAS443:3:75:821:1659#0/1
¥`R_a_R`b__a_¥V_a_UZ`]a]]_Z^^WWaV`^Y¥_¥
@HWI-EAS443:3:75:824:488#0/1
CACAAGTGGCACACACTAGACCAAAAGCAGCTTCTGTGGT
+HWI-EAS443:3:75:824:488#0/1
^bab[_a^X_aab_a_aa`QT]^U[___a`X`b`aV]J[Q
@HWI-EAS443:3:75:930:1405#0/1
CTGATATTGTGGATTACTGATCGTCTTTTTTTCAAATGTA
+HWI-EAS443:3:75:930:1405#0/1
aaa^a[aa^]baaaa_`aab`]`_aa]aaaaa^`Z]`aY_

@HWI-EAS443:3:76:1022:1456#0/1
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+HWI-EAS443:3:76:1022:1456#0/1
]]a`babbba_`abbabaa^a_abaaUa]`b_aU[bWa^
@HWI-EAS443:3:76:1028:665#0/1
CAGCAATCTGTTCAAGTGGCACACACTAGACCAAAAGC
+HWI-EAS443:3:76:1028:665#0/1
O_aaaba¥babaaabbbba__`bbbab_aa¥a`_`a^a_Z
@HWI-EAS443:3:76:1313:248#0/1
ATCTGTTCAAGTGGCACACACTAGACCAAAAGCAGCTT
+HWI-EAS443:3:76:1313:248#0/1
aa_aa_ba`aa`¥¥[^a]`_a^`]`_QY_^_^__N^
@HWI-EAS443:3:76:1355:1473#0/1
ATCTTGTCACCTCTGACTAAGGGAATTTTAGGATTTGTGT
+HWI-EAS443:3:76:1355:1473#0/1
aaaaababbbaaaaaaaaaaaaaaaaaaaaaa_aaaaa^__
@HWI-EAS443:3:76:1404:1427#0/1
TGGGCCTCATATACAACAGGATGGGAACAGTGACCACAGA
+HWI-EAS443:3:76:1404:1427#0/1
aa`a^aaaaaa__`_`a`^X^`]¥^]¥R_`__]^[^¥
@HWI-EAS443:3:76:1441:629#0/1
GAAAGATGACCTTCTTAAAATTTGCAGGCCTACCAGAAG
+HWI-EAS443:3:76:1441:629#0/1
a[`]LX[__¥_aV`^aYUXZ`^_aR^_[VU]_YXX_ZZ]
@HWI-EAS443:3:76:1644:1037#0/1
CTAAAATTCCTTAGTCAGAGGTGACAAGATTGGTCTTGT
+HWI-EAS443:3:76:1644:1037#0/1
aaYab`bZ`^bbaVa]]a`]^`]b_F]`b`Yab__aabQ
@HWI-EAS443:3:76:186:973#0/1
CAGCAATCTGTTCAAGTGGCACACACTAGACCAAAAGC
+HWI-EAS443:3:76:186:973#0/1
abbb`[`bbaabbbbbbaabbababbabaaaa[aaaaa
@HWI-EAS443:3:76:483:1988#0/1
ACAGAAGCTGCTTTTGGTCTAGTGTGTGCCACTTGTGAAC
+HWI-EAS443:3:76:483:1988#0/1
a``aZ¥a]]`]]¥YWQO^RZONXWWIT_]¥YTTPOQV]P
@HWI-EAS443:3:76:48:612#0/1
TTCGGGTCCCCATTCCCATTTAGGGCATTGTTGGACAAAGC
+HWI-EAS443:3:76:48:612#0/1
abbaaa]baaaaaaaaaaba`_aa[aa`__`__`a[XZ_
@HWI-EAS443:3:76:529:1075#0/1
TGTGAACAGATTGCTGATTCACAGCATCGGTCTCACAGAC
+HWI-EAS443:3:76:529:1075#0/1
aa`abba`baaaaab`aaba`a`aaa_]`^`aYWY[]X
@HWI-EAS443:3:76:52:1159#0/1
CAAGATTGGTCTTGTCTTTAGCCATTCCATGAGAGCCTCA
+HWI-EAS443:3:76:52:1159#0/1
`aV]¥aaXaXbaabaa`a^baa¥[^__aa[_]`]^`Z_]`
@HWI-EAS443:3:76:552:1464#0/1
GATCCCAATGATATTTGCTGCAATGACGAGAGGATCACTT

+HWI-EAS443:3:76:552:1464#0/1
aa¥a[`YXa_a_Y`¥__`_Z¥KX¥W]__]^¥]^¥[_^V_]`
@HWI-EAS443:3:76:578:634#0/1
AAGACGATCAGTAATCCACAATATCAGGTGCAAGATCCCA
+HWI-EAS443:3:76:578:634#0/1
aa]^a^YYaaa^aa_a`X`]aa`__`_Q_____^Z¥][
@HWI-EAS443:3:76:637:585#0/1
ATTTGCTGCAATGACGAGAGGATCACTTGAATCGCTGCAT
+HWI-EAS443:3:76:637:585#0/1
Z¥¥[bbaa¥_W`¥¥_ZQa_]ZZW^aa_``]aaZZ_``V_Y
@HWI-EAS443:3:76:757:886#0/1
GCCAGTTGCATGGGCCTCATATACAACAGGATGGGAACAG
+HWI-EAS443:3:76:757:886#0/1
aa`^`¥_a^`_][[a]_]_]^[^¥¥_`^ZZ[[W¥¥¥¥VYVYZ
@HWI-EAS443:3:76:824:1150#0/1
GCAGCTTCTGTGGTCACTGTTCCCATCCTGTTGTATATGA
+HWI-EAS443:3:76:824:1150#0/1
aaaaa¥``YOMT^U¥ZYZPV[_USNV_`ZXN^XPX[^YYS
@HWI-EAS443:3:76:827:117#0/1
AAAAGCAGCTTCTGTGGTCACTGTTCCCATCCTGTTGTAT
+HWI-EAS443:3:76:827:117#0/1
abbbaba_aa[aaZa`_`aQ`a¥a^`_`_`¥__[¥a_W¥_
@HWI-EAS443:3:76:928:2004#0/1
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+HWI-EAS443:3:76:928:2004#0/1
UW`aba]bbaa`^`aaaa]SX[aaaa[G[W]a^a_a
@HWI-EAS443:3:76:936:1408#0/1
ATCCCAATGATATTTGCTGCAATGACGAGAGGATCACTTG
+HWI-EAS443:3:76:936:1408#0/1
abb`^a`bbba`ba]``^`aaaaaaaaa_`a_a```a]
@HWI-EAS443:3:76:963:585#0/1
TGCTGTGAATCAGCAATCTGTTCAAGTGGCACACACTA
+HWI-EAS443:3:76:963:585#0/1
aaaaaaabaaaaa_aaa_`a`a_`__`W``¥`_`^a^^_
@HWI-EAS443:3:76:99:195#0/1
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+HWI-EAS443:3:76:99:195#0/1
aaabba_ba__a^`aaaaab`a^aa`a_``[`Z`a`]a`
@HWI-EAS443:3:77:1075:452#0/1
GACCACAGAAGCTGCTTTTGGTCTAGTGTGTGCCACTTGT
+HWI-EAS443:3:77:1075:452#0/1
_bbUb`a`a`aX_Tbbbaa`a[[Zabb[^TRLYVRaa^
@HWI-EAS443:3:77:1096:202#0/1
GACCGATGCTGTGAATCAGCAATCTGTTCAAGTGGCAC
+HWI-EAS443:3:77:1096:202#0/1
a`]a`aa^_ab^aaa`^`aZaaa_a`_aZ^[^_]`_WVY
@HWI-EAS443:3:77:1154:759#0/1
TTCCCATCCTGTTGTATATGAGGCCCATGCAACTGGCAAG
+HWI-EAS443:3:77:1154:759#0/1
`ba_aaaaaaa^baaabbaaba`^`^aabaa^¥]a_`_]Y

@HWI-EAS443:3:77:1161:1252#0/1
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+HWI-EAS443:3:77:1161:1252#0/1
`abbbbabbb`bbb]aaaa_babaab_bbaa`aab_abU__
@HWI-EAS443:3:77:1161:131#0/1
GGATTACTGATCGTCTTTTTTTCAAATGTATTTATCGTCCG
+HWI-EAS443:3:77:1161:131#0/1
a`^`a`^`a`aZa]Za`a`aaa^¥]]_a^`_`a_`W_[U^
@HWI-EAS443:3:77:1189:29#0/1
GCCTCATATACAACAGGATGGGAACAGTGACCACAGAAGC
+HWI-EAS443:3:77:1189:29#0/1
a_`aY_`_`^Z_`^`_aaZ_`¥^V] [] `W__RTZW__XW^W
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+HWI-EAS443:3:77:1306:1901#0/1
]b`T`b`abK[QVaaba`aa`ababaaWaaa`aZ` `a_a^
@HWI-EAS443:3:77:1715:93#0/1
CTCATATACAACAGGATGGGAACAGTGACCACAGAAGCTG
+HWI-EAS443:3:77:1715:93#0/1
ababbbbb`bbabbbabbbbabbbabbb`abaaX^b
@HWI-EAS443:3:77:220:1281#0/1
GCCACTTGTGAACAGATTGCTGATTCACAGCATCGGTCTC
+HWI-EAS443:3:77:220:1281#0/1
aa_]ZWSWP_aa[_^XOLV[^a_RFXZ`¥YVKG`_ZQ[LU
@HWI-EAS443:3:77:244:292#0/1
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+HWI-EAS443:3:77:244:292#0/1
]aa`bZaaa`aa^`aa]a`]^`^`a¥a`WY`U_]HM`__U
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GAACAGTGACCACAGAAGCTGCTTTTGGTCTAGTGTGTGC
+HWI-EAS443:3:77:255:217#0/1
^_aVP__baaXP]R]a_____]aUGZZ_]U¥Q¥UTXY¥NVG
@HWI-EAS443:3:77:279:93#0/1
ATCGTCTTTTTTTCAAATGTATTTATCGTCCGCTTTAAATA
+HWI-EAS443:3:77:279:93#0/1
abba`aabbbbab_R_`abX]aaa]^`aa__`__aa_¥_^^
@HWI-EAS443:3:77:317:1982#0/1
GTGAGACCGATGCTGTGAATCAGCAATCTGTTCAAGTG
+HWI-EAS443:3:77:317:1982#0/1
`T¥aW¥b`_aOH_baQaaaaZ^^ab`Q`aZ_`]P_¥R_TY
@HWI-EAS443:3:77:373:151#0/1
TGACAAGATTGGTCTTGTCTTTAGCCATTCCATGAGAGCC
+HWI-EAS443:3:77:373:151#0/1
a_ZW^^`WW_]`^_aab¥PZ^aZ_`_TZ_]_Z¥¥[]_a]¥^_
@HWI-EAS443:3:77:458:234#0/1
ATCCCAATGATATTTGCTGCAATGACGAGAGGATCACTTG
+HWI-EAS443:3:77:458:234#0/1
aababaaaaabaa`aaa`a`aaa` `a`a`aa`_`^` `_]`
@HWI-EAS443:3:77:552:1222#0/1
CAAGATCTGTGTTCTTTCTGCAAAGACACTTCCAGTCT

+HWI-EAS443:3:77:552:1222#0/1
`WXZPQTUaR^GZa^[X¥]J^U]ZUW]^aaaPa¥Q^Z¥XR
@HWI-EAS443:3:77:585:1229#0/1
GTGACCACAGAAGCTGCTTTTGGTCTAGTGTGCCACTT
+HWI-EAS443:3:77:585:1229#0/1
a`abbabababaaaa`a`aaaa`_aaa^^`____]``a¥``
@HWI-EAS443:3:77:691:1689#0/1
GCTGTGAATCAGCAATCTGTTTACAAGTGGCACACACTAG
+HWI-EAS443:3:77:691:1689#0/1
aba`_]¥a_a]``_aa_PT[¥_[`a¥_NZV^`^]`a_U`¥
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TACATTTGAAAAAAGACGATCAGTAATCCACAATATCAG
+HWI-EAS443:3:77:723:1706#0/1
J^^bba¥ba`^^```bab_[`^V[_QY¥a`a`^S¥¥a_
@HWI-EAS443:3:77:745:1016#0/1
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+HWI-EAS443:3:77:745:1016#0/1
^a`^aa_aaVa]a^YTaZZ`^aa`][aYa`a]a`a_V¥_S
@HWI-EAS443:3:77:840:700#0/1
ACCAATCTTGTACCTCTGACTAAGGGAATTTTAGGATTT
+HWI-EAS443:3:77:840:700#0/1
a_a_]_a`aI`^YT```_XS`WW`^_0[YFMX^`^0^_Q
@HWI-EAS443:3:77:841:1084#0/1
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+HWI-EAS443:3:77:841:1084#0/1
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¥XU`¥¥b`_WS¥¥`¥`b`_Wq]`UHXbYY^`^QG`_MGRM
@HWI-EAS443:3:77:896:103#0/1
TGTGAATCAGCAATCTGTTTACAAGTGGCACACACTAGAC
+HWI-EAS443:3:77:896:103#0/1
abaa_aa`a`_`a`ab`_]`__^_]`^`]]V]V^^^X
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+HWI-EAS443:3:77:935:889#0/1
a`_baabbabababaa_aaababa^a]aaaaZa_a]`_a
@HWI-EAS443:3:78:1036:1234#0/1
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+HWI-EAS443:3:78:1036:1234#0/1
aaba`baaa¥aa_Sab`aaa]a][`[a]^aa`aaa]U^`a
@HWI-EAS443:3:78:1092:796#0/1
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+HWI-EAS443:3:78:1092:796#0/1
a`b`a`abbab`aaaabaaaaa_aa^_]`_`aaa]`__a`
@HWI-EAS443:3:78:1113:899#0/1
GTTAAACTATACAAGAAGCTCAAAAGAGAAATAACGTTCC
+HWI-EAS443:3:78:1113:899#0/1
^UV_OUMLTUaZaZa^QWT]`XJOT`[_WFZ¥YQJ¥R[ZT

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+HWI-EAS443:3:78:1117:642#0/1
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+HWI-EAS443:3:78:1219:908#0/1
[Qa]^W_U`_W]baa`YYS^`^`_`0`T¥Ia^a[`^]KZU
@HWI-EAS443:3:78:1234:1663#0/1
AAACTATACAAGAAGCTCAAAAGAGAAATAACGTTCCATG
+HWI-EAS443:3:78:1234:1663#0/1
aaa_aa`a]aa^_`___[_aZ_]`^)``_aa]^`^XX^W
@HWI-EAS443:3:78:1585:120#0/1
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+HWI-EAS443:3:78:1585:120#0/1
aabab¥X^`aaaa^VRa)`a^¥]^_TNS]U¥X]BBBBBB
@HWI-EAS443:3:78:1603:1073#0/1
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+HWI-EAS443:3:78:1603:1073#0/1
^a_QZb`b`Sab^aab`_H`a]]aaVYLaNaa^XY`_Y¥B
@HWI-EAS443:3:78:297:1685#0/1
GCACACACTAGACCAAAGCAGCTTCTGTGGTCACTGTTC
+HWI-EAS443:3:78:297:1685#0/1
_`^`_UXZ_VJ_aWQ[X]aabZ`[M`_]_HQQ^a_VTUX_
@HWI-EAS443:3:78:389:118#0/1
GGATGGGAACAGTGACCACAGAAGCTGCTTTTGGTCTAGT
+HWI-EAS443:3:78:389:118#0/1
ab¥abbb`aaaa¥abaaa]_baaa`_a^`_`_`_`_`W`¥[S
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+HWI-EAS443:3:78:454:631#0/1
a^X_aaa_]aa]`aa][W`U`T^YX]__`^`[¥^`_`_`¥T
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+HWI-EAS443:3:78:600:1759#0/1
`XVPY^W[VbaZMXWT_S[UP]MVaUZUTUK[[`^`a]Y[
@HWI-EAS443:3:78:698:60#0/1
GAGAGGATCACTTGAATCGCTGCATCTGCACTCCCATTTCG
+HWI-EAS443:3:78:698:60#0/1
a`aaba` `¥a`a_aaaa` `Ra`YPYa¥^¥¥¥¥WU[¥X_
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+HWI-EAS443:3:78:700:844#0/1
` `a____`]` `^aaaaaaaaa^X`_YYaadWaaaa`a`a^
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GACCACAGAAGCTGCTTTTGGTCTAGTGTGTGCCACTTGT
+HWI-EAS443:3:78:71:322#0/1
`¥¥WV^^]X_¥UU]R¥ZRTXWOR^¥FRP¥SQL¥JMWVBB
@HWI-EAS443:3:78:746:1647#0/1
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+HWI-EAS443:3:78:746:1647#0/1
a`aaa_]a`_]`a`_a__Y__^]ZZY_^¥¥_____]^
@HWI-EAS443:3:78:751:421#0/1
GACAAGACCAATCTTGTCACCTCTGACTAAGGGAATTTTA
+HWI-EAS443:3:78:751:421#0/1
aa`ababaaaabaab_aa__aaaa`Zba_baaa`aaa`a
@HWI-EAS443:3:78:884:1660#0/1
GGGCCTCATATACAACAGGATGGGAACAGTGACCACAGAA
+HWI-EAS443:3:78:884:1660#0/1
`X_Yabbbbbaba`baabaa_aa_bb__aabaaaa`_`
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+HWI-EAS443:3:78:958:966#0/1
`W__ab__b^aa]QZ`¥]`a]_`aa_aa_XX_`_`aa
@HWI-EAS443:3:79:1034:1019#0/1
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+HWI-EAS443:3:79:1034:1019#0/1
`Yb__`_]_`aabbab`^_W0¥aaa`a¥^]¥aaa¥]_aa
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+HWI-EAS443:3:79:1050:708#0/1
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+HWI-EAS443:3:79:1132:557#0/1
aabbabbb^`abab_`abbb¥b_bb^abbbab]aaa[a`
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+HWI-EAS443:3:79:1248:1216#0/1
abVNab`bbaaa^`a`_a`_aVb]_WaWJ`X^aZaaaa
@HWI-EAS443:3:79:1327:1320#0/1
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+HWI-EAS443:3:79:1327:1320#0/1
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@HWI-EAS443:3:79:1338:725#0/1
ACTGATCGTCTTTTTTCAAATGTATTTATCGTCGCTTTA
+HWI-EAS443:3:79:1338:725#0/1
aabbabaaaabaabbbabaaaa]abaaaa____a^a`a`
@HWI-EAS443:3:79:1524:172#0/1
CTACTACCACCAATCCACTAATCAGGCATGAAAACAGAAT
+HWI-EAS443:3:79:1524:172#0/1
abaabbb`b^`abbab`abaab`babaab`_]¥^`_aa
@HWI-EAS443:3:79:156:1915#0/1
TGTTGTTCCGGTCCCCATTCCCATTTAGGGCATTGTTGGAC
+HWI-EAS443:3:79:156:1915#0/1
a`]a^aab]]_`b`_`a`a`ab__a_a__[¥a_a^a`]aa
@HWI-EAS443:3:79:1655:44#0/1
GACCGATGCTGTGAATCAGCAATCTGTTCAACAAGTGGCAC
+HWI-EAS443:3:79:1655:44#0/1
ab`_bbbabbbabaa]`bXaaa^bbaa`_Hab_[aaYb_

@HWI-EAS443:3:79:1658:1301#0/1
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+HWI-EAS443:3:79:1658:1301#0/1
abbbbaab_`bY`aab_baabaaabababaa_baaa__a`
@HWI-EAS443:3:79:175:1385#0/1
AGCAATCTGTTCACAAGTGGCACACACTAGACCAAAGCA
+HWI-EAS443:3:79:175:1385#0/1
a_a^0^b_a^_a`_a`]`W_V`^`^`a`_`^`a`_`^`^X_
@HWI-EAS443:3:79:220:525#0/1
GCTGCTTTTGGTCTAGTGTGTGCCACTTGTGAACAGATTG
+HWI-EAS443:3:79:220:525#0/1
aaaaa`aaa^Za^`^`^`_Y^`aX^`_`VVT`_`_YQ]
@HWI-EAS443:3:79:279:553#0/1
AAAGCAGCTTCTGTGGTCACTGTTCCCATCCTGTTGTATA
+HWI-EAS443:3:79:279:553#0/1
a_Z^_VZ_]^[^QRFQa`aQYRMNZXYaJRP^_ZUTPYUZ`
@HWI-EAS443:3:79:349:1162#0/1
ATCCCAATGATATTTGCTGCAATGACGAGAGGATCACTTG
+HWI-EAS443:3:79:349:1162#0/1
a_aaa`b_aaXYX_P^a_a`[S[a`_`_`_ZFX_`S`^`]
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TGACACCTCCTTGGCCCCATGGAACGTTATTTCTCTTTTG
+HWI-EAS443:3:79:375:153#0/1
abbb^aaaaaaba^aaa`aa`a`b`_`aaa_a_a`_`_`
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CACAAGTGGCACACACTAGACCAAAGCAGCTTCTGTGGT
+HWI-EAS443:3:79:41:1776#0/1
aaba`ZV`_bba^`a^`][`aa`_`a^`[V`^`_XMS[ZV
@HWI-EAS443:3:79:451:1186#0/1
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+HWI-EAS443:3:79:451:1186#0/1
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+HWI-EAS443:3:79:496:1505#0/1
abb_]ab`abbbaab]ba`_aaaabaaaa`aa_aaaaa`a
@HWI-EAS443:3:79:503:1176#0/1
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+HWI-EAS443:3:79:503:1176#0/1
a_RYaab]aaRXZaYaa`Y`]]`a`^^^`^`P]^Y[TTT^
@HWI-EAS443:3:79:658:446#0/1
GTGACCACAGAAGCTGCTTTTGGTCTAGTGTGTGCCACTT
+HWI-EAS443:3:79:658:446#0/1
a^bbaaa_aaba^aaa`a`a^_a]_`_`^VaZ_^]`[`ZZ_
@HWI-EAS443:3:79:711:1713#0/1
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+HWI-EAS443:3:79:711:1713#0/1
TZ`_`[b`_ba[`_XW`W`bb_]_]_aJZ_aa`_`a`XR
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+HWI-EAS443:3:79:809:1369#0/1
`babbabaabb_a_bb_aa`a_aa_a¥aaaa`aaa_``[_
@HWI-EAS443:3:79:920:795#0/1
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+HWI-EAS443:3:79:920:795#0/1
ZZ]W]I_[Z¥WS]]`QT¥¥NQ[aWLYa_[^Vaa^^QX
@HWI-EAS443:3:79:969:1370#0/1
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+HWI-EAS443:3:79:969:1370#0/1
`a_ab^YaaaU]X¥_a``abaa`_aa`aa^`````_``^`_
@HWI-EAS443:3:7:1017:911#0/1
AAATGCCCTAAATGGGAATGGGACCCGAACAACATGGAT
+HWI-EAS443:3:7:1017:911#0/1
abbab`_aaaaaaaaa_``a`_^^^_a__W__^_aa_`^
@HWI-EAS443:3:7:1020:1253#0/1
AGAGCCTCAAGATCTGTGTTCTTTCCTGCAAAGACACTTT
+HWI-EAS443:3:7:1020:1253#0/1
a^^a_X_a^_a^__aa___a`a```X`^X]a_``]]_`X_
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+HWI-EAS443:3:7:1054:483#0/1
aTZTUaabb^ba_[_]bUL^a^a_K¥a_b]RX`[[]aUa
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+HWI-EAS443:3:7:112:1604#0/1
ab`]aab`baaaa`[a`a_`^¥a`_aaa^^aa`UUV^__`
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GCCGAGATCGCGCAGAGACTGGAAAGTGTCTTTGCAGGAA
+HWI-EAS443:3:7:1221:1341#0/1
GQO^[aZ^[aYZ_NPUY^^¥PYNPRsbT¥[QKT[[]B
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+HWI-EAS443:3:7:1284:451#0/1
aa`aa_a_aaa[a_aaaZ]a`¥__Y`_^a]a]¥T^Ua¥U^
@HWI-EAS443:3:7:1286:441#0/1
AAGATGACCTTCTTGAATAATTTGCAGGCCTACCAGAAGCG
+HWI-EAS443:3:7:1286:441#0/1
aba``aa_a_aaba`aYa`aa^^^aT`__``]S_¥___Za
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+HWI-EAS443:3:7:1376:1297#0/1
^aaaaaab_babbbba`b[]babab¥Y[b`¥[¥^W^UXRb
@HWI-EAS443:3:7:1443:1111#0/1
GCGACGATAAATACATTTGAAAAAAGACGATCAGTAATC
+HWI-EAS443:3:7:1443:1111#0/1
a¥a`[aa``a`aa_`aaa```_``_`[_Za__[]^R^]^Y
@HWI-EAS443:3:7:1458:1504#0/1
ATCAGGTGCAAGATCCCAATGATATTTGCTGCAATGACGA
+HWI-EAS443:3:7:1458:1504#0/1
aa_baa[b]abaa¥_aaaaaa`_aa^`__aVa_`^``Sa_

@HWI-EAS443:3:7:1462:1899#0/1
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+HWI-EAS443:3:7:1462:1899#0/1
W[S[RXZaa_a^`a_]_OX`Xa¥X¥aaa``UTX`¥RW_^
@HWI-EAS443:3:7:155:1068#0/1
GATATTTGCTGCAATGACGAGAGGATCACTTGAATCGCTG
+HWI-EAS443:3:7:155:1068#0/1
a`^```a`a_]__[V__aa¥a_`]]Y^¥Y[] [¥]RQ¥XQP
@HWI-EAS443:3:7:1639:1511#0/1
GCTGCAATGACGAGAGGATCACTTGAATCGCTGCATCTGC
+HWI-EAS443:3:7:1639:1511#0/1
I_Uaa_Za`bbaba`a``abbab`^^```^Ua_Tbbabbb
@HWI-EAS443:3:7:1711:1014#0/1
CAGCAATCTGTTCAAGTGGCACACACTAGACCAAAAGC
+HWI-EAS443:3:7:1711:1014#0/1
abaabaaabaab`a_aab]aa]bUaY`RaaY_U_`_``ZZ
@HWI-EAS443:3:7:1715:442#0/1
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+HWI-EAS443:3:7:1715:442#0/1
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@HWI-EAS443:3:7:1782:1433#0/1
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+HWI-EAS443:3:7:1782:1433#0/1
aba`a`_Zabb_babbb`abZbab`aa_bba___`aba_
@HWI-EAS443:3:7:207:704#0/1
ATTCTGTTTTCATGCCTGATTAGTGGATTGGTGGTAGTAG
+HWI-EAS443:3:7:207:704#0/1
a^`J]b[XaV`aa``aaa_a`aXa_[M^^_RaBBBBBBB
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+HWI-EAS443:3:7:287:1550#0/1
a`a[abbabaa_Ua`^aaOWX``G^U[^^^`YaY__`_`_`_`
@HWI-EAS443:3:7:427:792#0/1
GAGGTTGCTAATCAGACTAGGCAGATGGTACATGCAATGA
+HWI-EAS443:3:7:427:792#0/1
^`_]G[¥]WW_R¥`^`¥]`W]¥]`__PWD^ZZHZLV_]a`
@HWI-EAS443:3:7:458:799#0/1
AAGCTATTCAACTGGTGCACCTGCCAGTTGCATGGGCCCTC
+HWI-EAS443:3:7:458:799#0/1
a`aY`_a`¥a^^^UXUY__UW¥_¥T¥WY__Y_¥W]¥¥U^W
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CATTTGAAAAAAGACGATCAGTAATCCACAATATCAGGT
+HWI-EAS443:3:7:722:728#0/1
^`¥T[a_¥R`ba¥Sbbb_SZ_[0]^`^0^X^`a_V]¥¥VV
@HWI-EAS443:3:7:73:712#0/1
TCCCATTCGCTTCTGGTAGGCCTGCAAATTTTCAAGAAGG
+HWI-EAS443:3:7:73:712#0/1
Kbaba`a`__aaa``_Yaba^a`a`U^aaa`aaa_a_`a_
@HWI-EAS443:3:7:752:46#0/1
CACAGAAGCTGCTTTTGGTCTAGTGTGTGCCACTTGTGAA

+HWI-EAS443:3:7:752:46#0/1
a`bbbbbb`bbbbabbaba_baa_babba]Ga_aaaSaaa
@HWI-EAS443:3:7:850:56#0/1
GTGAACAGATTGCTGATTCACAGCATCGGTCTCACAGACA
+HWI-EAS443:3:7:850:56#0/1
a`^aZaa`__a_aa`aY]WZ`Z_^U`^UQVFWY`BBB
@HWI-EAS443:3:7:872:2042#0/1
ATACATTTGAAAAAAGACGATCAGTAATCCACAATATCA
+HWI-EAS443:3:7:872:2042#0/1
_ZW]a[Uy_a`a`¥`_]__[[ZWP^WSYHXOY^Z_VBB
@HWI-EAS443:3:7:880:1734#0/1
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+HWI-EAS443:3:7:880:1734#0/1
ab]`bb_ababbbbaa[SYaaa[JQQV[X`_aW[R^aQaUX
@HWI-EAS443:3:7:939:1783#0/1
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+HWI-EAS443:3:7:939:1783#0/1
¥a¥¥V`_G_]S_X¥YWbb`¥a_]^aaa^Z`a^TNXNGOYH
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+HWI-EAS443:3:7:943:1705#0/1
`¥_b`bbba`b_a_bbbbaaabb`¥b¥_G`a[UQTYUb
@HWI-EAS443:3:80:1075:1253#0/1
TGACCACAGAAGCTGCTTTTGGTCTAGTGTGTGCCACTTG
+HWI-EAS443:3:80:1075:1253#0/1
^aS¥b`]ab]Y`^a`__a[a_]Pa`T^MQVQ`````VU__a
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CATTTGAAAAAAGACGATCAGTAATCCACAATATCAGGT
+HWI-EAS443:3:80:1114:281#0/1
abbbbbbbaab^a__`abaaWab¥_a_V[a]a_aa`M^^SL
@HWI-EAS443:3:80:1314:101#0/1
GACGAGAGGATCACTTGAATCGCTGCATCTGCACTCCCAT
+HWI-EAS443:3:80:1314:101#0/1
`ba]abbab`aaaWab]aaa_aW¥V^]`^a¥^¥a¥X¥¥]
@HWI-EAS443:3:80:145:196#0/1
GCACCTGATATTGTGGATTACTGATCGTCTTTTTTTTCAAA
+HWI-EAS443:3:80:145:196#0/1
_a```a^Y¥]a^YN[X]TP`a¥S[^Y¥M¥ZSP][][MZZU
@HWI-EAS443:3:80:1729:1643#0/1
CGATAAATACATTTGAAAAAAGACGATCAGTAATCCACA
+HWI-EAS443:3:80:1729:1643#0/1
aabaabbbabbaabbbbababaaabb]aaaW`aa]`a¥a
@HWI-EAS443:3:80:206:239#0/1
ACAAGATTGGTCTTGTCTTTAGCCATTCCATGAGAGCCTC
+HWI-EAS443:3:80:206:239#0/1
`^VF^I[¥_a____[a_aaaT¥TZ[W[^¥a^_]GZ]_W^W[
@HWI-EAS443:3:80:258:360#0/1
GACCGATGCTGTGAATCAGCAATCTGTTCCACAAGTGGCAC
+HWI-EAS443:3:80:258:360#0/1
abbbbaaaaaa_Za`aa^a`^a`_YU¥__¥_] [U__aaa

@HWI-EAS443:3:80:263:50#0/1
GCCTCATATACAACAGGATGGGAACAGTGACCACAGAAGC
+HWI-EAS443:3:80:263:50#0/1
aY^RZR¥bXHvX^_`^^TD¥`aNY[NaW_Q¥ZSLWSURYN
@HWI-EAS443:3:80:312:764#0/1
ATCGTCTTTTTTCAAATGTATTTATCGTCGCTTTAAATA
+HWI-EAS443:3:80:312:764#0/1
```a^X^^bba¥]WW]]¥aXX`aYaa`aXU^a\_a\_VUSZT  
@HWI-EAS443:3:80:37:1360#0/1  
TGTGAATCAGCAATCTGTTCAAGTGGCACACACTAGAC  
+HWI-EAS443:3:80:37:1360#0/1  
ab]\_[babbbb```aa]]aba`U`^^a\_aaaa\_a``a[`]  
@HWI-EAS443:3:80:399:1028#0/1  
TGGGAGTGCAGATGCAGCGATTCAAGTGATCCTCTCGTCA  
+HWI-EAS443:3:80:399:1028#0/1  
[XX`a]]a]Yaaaa]b`^aS```¥W]VZ[Y`¥^\_]^^U`\_  
@HWI-EAS443:3:80:427:84#0/1  
AGCAGCTTCTGTGGTCACTGTTCCCATCCTGTTGTATATG  
+HWI-EAS443:3:80:427:84#0/1  
aaa\_¥T`XXYWRaaUQ\_Y\_[¥VP^^[YSMXTLM[H[¥¥^W  
@HWI-EAS443:3:80:499:1785#0/1  
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+HWI-EAS443:3:80:499:1785#0/1  
aba^abbabababaab]`baaa`[a\_aaaa^`a\_aaa`aa  
@HWI-EAS443:3:80:49:927#0/1  
TTTTTCAAATGTATTTATCGTCGCTTTAAATACGGTTTGA  
+HWI-EAS443:3:80:49:927#0/1  
aaaaa`a\_Vab¥]aa`aaaa\_aa\_``\_ZP^`a\_\_^V\_^^¥  
@HWI-EAS443:3:80:532:56#0/1  
CGCAGAGACTGGAAAGTGTCTTTGCAGGAAAGAACACAGA  
+HWI-EAS443:3:80:532:56#0/1  
`YY`V¥¥T[\_a`PT`Xa[[] [V`^R^\_]]]XLRV\_TV[Q  
@HWI-EAS443:3:80:590:1778#0/1  
GGGCCTCATATACAACAGGATGGGAACAGTGACCACAGAA  
+HWI-EAS443:3:80:590:1778#0/1  
Y\_Z\_\_\_bbbbbbbbbb\_bbbba\_\_^\_baba[aaa`ab\_^\_\_  
@HWI-EAS443:3:80:662:363#0/1  
CTGTGAATCAGCAATCTGTTCAAGTGGCACACACTAGA  
+HWI-EAS443:3:80:662:363#0/1  
[`bYa`^\_\_a^a]\_bbb\_^]aa`aab¥Y]L\_`b^]V^X`  
@HWI-EAS443:3:80:720:1333#0/1  
ACTAGACAAAAGCAGCTTCTGTGGTCACTGTTCCCATCC  
+HWI-EAS443:3:80:720:1333#0/1  
\_aaa\_abba¥aba`baabbbbaa`a`Zb]`a\_`a\_a`]\_a`  
@HWI-EAS443:3:80:796:184#0/1  
TGGGCCTCATATACAACAGGATGGGAACAGTGACCACAGA  
+HWI-EAS443:3:80:796:184#0/1  
^^`^UUV^`Z^WPU]U^aa`aa`V`Ua][`G`[\_^ [¥¥]G  
@HWI-EAS443:3:80:824:648#0/1  
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+HWI-EAS443:3:80:824:648#0/1  
abb\_\_bbbaababaabU\_¥`bbb`\_aa\_a¥`aaaaa¥a`¥  
@HWI-EAS443:3:80:899:980#0/1  
GCCGAGATCGCGCAGAGACTGGAAAGTGTCTTTGCAGGAA  
+HWI-EAS443:3:80:899:980#0/1  
aaa` ``baabbaaaaX]a`baaaaa\_a¥^aa`¥`aa`]]  
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GGAGTGCAGATGCAGCGATTCAAGTGATCCTCTCGTCATT  
+HWI-EAS443:3:80:941:378#0/1  
aba`]baabaaaa^aaa`aa`aaaW` `][U`\_`^][Z^\_  
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TTTTCAAATGTATTTATCGTCGCTTTAAATACGGTTTGAA  
+HWI-EAS443:3:81:1087:159#0/1  
`aaa\_aaa`a\_aa`aa`a\_\_a`\_a\_^]`\_`\_`^`^¥]  
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+HWI-EAS443:3:81:1089:1500#0/1  
a`XT]]\_Xbbaa`]`aaaa`b¥^YM]aaaX`aX\_aaa\_Za  
@HWI-EAS443:3:81:1129:179#0/1  
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+HWI-EAS443:3:81:1129:179#0/1  
abaaaa`ab\_ab` ``aaaaaZ\_\_\_a^a` `^aa`a]Ra\_\_\_\_  
@HWI-EAS443:3:81:1132:121#0/1  
GAGAAATAACGTTCCATGGGGCCAAGGAGGTGTCACTAAG  
+HWI-EAS443:3:81:1132:121#0/1  
a^baaaaa\_[a[^U^[^a[^Z[VV^]`^]aR\_VS]QX]X]  
@HWI-EAS443:3:81:1228:1128#0/1  
TGTGAATCAGCAATCTGTTCCACAAGTGGCACACACTAGAC  
+HWI-EAS443:3:81:1228:1128#0/1  
a^P]]` `X`aaaaa[ab^TU\_[a\_\_VaRR¥]aYZ]\_\_\_\_Y  
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+HWI-EAS443:3:81:126:1038#0/1  
a\_[\_bb]^]^]b` `aa\_XMW[]Y[[`^QYaaa`aR]^  
@HWI-EAS443:3:81:1273:536#0/1  
TGACAAGATTGGTCTTGTCTTTAGCCATTCCATGAGAGCC  
+HWI-EAS443:3:81:1273:536#0/1  
]]]¥]XV^U]\_ZUQ]ab\_\_a` `]`\_FX\_]\_X]\_\_[aaQR]L  
@HWI-EAS443:3:81:1279:1274#0/1  
CAAGATTGGTCTTGTCTTTAGCCATTCCATGAGAGCCTCA  
+HWI-EAS443:3:81:1279:1274#0/1  
]`ab]abWb[]b^a` `a\_b]a[\_]`¥¥]`\_¥NXa\_a\_\_UO`  
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CATGCAATGAGAACTATTGGGACTCATCCTAGCTCCAGTG  
+HWI-EAS443:3:81:1295:145#0/1  
a¥`ZX`Ra]¥^^]VPYW\_]SRLXa`\_aYH[WROT`\_][ZM^  
@HWI-EAS443:3:81:1366:2012#0/1  
AAATACATTTGAAAAAAGACGATCAGTAATCCACAATAT  
+HWI-EAS443:3:81:1366:2012#0/1  
aa\_\_\_\_` `a` `a\_\_`aa\_Z^` `I[]][\_`^W¥[]¥^^]^V

@HWI-EAS443:3:81:1457:1726#0/1  
ATCCCAATGATATTTGCTGCAATGACGAGAGGATCACTTG  
+HWI-EAS443:3:81:1457:1726#0/1  
a]Ra[aa`aaaa\_\_`a¥a\_\_WVa`a`^a\_XKTU]]  
@HWI-EAS443:3:81:1574:245#0/1  
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+HWI-EAS443:3:81:1574:245#0/1  
^¥^aP]b\_b`Habaaaab\_b]V`a`[LYaa[XX]PZSWHW  
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GCCTCATATAACAACAGGATGGGAACAGTGACCACAGAAGC  
+HWI-EAS443:3:81:1771:581#0/1  
a\_Za\_aaaaa\_a`\_¥]\_\_^`a`¥\_Z\_^W^\_ZZ^Y`\_[ZUW  
@HWI-EAS443:3:81:184:426#0/1  
ATTCTGTTTTTCATGCCTGATTAGTGGATTGGTGGTAGTAG  
+HWI-EAS443:3:81:184:426#0/1  
aa`aaa¥aaaa`aa`^a\_a`J¥Yaa\_a`aBBBBBBBBBBB  
@HWI-EAS443:3:81:263:154#0/1  
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+HWI-EAS443:3:81:263:154#0/1  
a^a¥¥aa`aZa¥XX^`a^a\_UZ]]VYUWaa[TPT[`^TN  
@HWI-EAS443:3:81:292:1795#0/1  
CTTTCCTGCAAAGACACTTTCCAGTCTCTGCGCGATCTCG  
+HWI-EAS443:3:81:292:1795#0/1  
a\_Y]\_baa`[`¥]`a]X¥aa[TZ`^`YT`SaUKT¥U^S  
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CAAGACCAATCTTGTCACCTCTGACTAAGGGAATTTTAGG  
+HWI-EAS443:3:81:312:1757#0/1  
aY`abb`a\_a`^`\_aaaa\_a`^`\_a`^\_]`\_\_\_\_^`\_Z  
@HWI-EAS443:3:81:356:1434#0/1  
CAGCAATCTGTTCACAAGTGGCACACACTAGACCAAAAAGC  
+HWI-EAS443:3:81:356:1434#0/1  
aa`a`[aa`\_^[¥\_aa`WU[````\_]`[[YV^^[W^\_]Y  
@HWI-EAS443:3:81:366:1995#0/1  
ATCATTGGGATCTTGACCTGATATTGTGGATTACTIONGATC  
+HWI-EAS443:3:81:366:1995#0/1  
`a`a`aZ\_\_¥\_]a^^¥a`^`\_`a^]\_XZ`^\_]\_\_\_\_]^^^WW  
@HWI-EAS443:3:81:372:468#0/1  
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+HWI-EAS443:3:81:372:468#0/1  
a`]``X`ZV¥aaaaaaaaaaa`X`^¥aa`\_]a`\_`  
@HWI-EAS443:3:81:417:1254#0/1  
CACTTGTGAACAGATTGCTGATTCACAGCATCGGTCTCAC  
+HWI-EAS443:3:81:417:1254#0/1  
aaa``Yaaaa]a^W^aa`a\_\_aa`a`\_\_\_\_\_aaX`[¥WS  
@HWI-EAS443:3:81:580:1459#0/1  
TGGGCCTCATATAACAACAGGATGGGAACAGTGACCACAGA  
+HWI-EAS443:3:81:580:1459#0/1  
\_VLTN\_\_ab^aa^abb`\_YV]\_Z`Y^]`Raaa^^`a`  
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+HWI-EAS443:3:81:649:456#0/1  
^]UR]`b]aaaba`a]\_b]aaa`]X]aa\_aaaa`aa\_XM  
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+HWI-EAS443:3:81:831:2014#0/1  
a\_aa\_a\_a`a`a`a\_a`a\_\_\_^[TTQNT[\_Z]]Y]\_[[^[^Y  
@HWI-EAS443:3:81:855:462#0/1  
GGAGGTTGCTAATCAGACTAGGCAGATGGTACATGCAATG  
+HWI-EAS443:3:81:855:462#0/1  
aa¥]]^[\`¥\_]`\_ZYa^¥]^`\_\_^ZZ]^UZZ^[YU[]W[  
@HWI-EAS443:3:81:857:200#0/1  
GTGCCACTTGTGAACAGATTGCTGATTCACAGCATCGGTC  
+HWI-EAS443:3:81:857:200#0/1  
a^]^\_a`\_Y\_\_¥UYUa`\_]\_\_R^`\_\_[Z[]\_\_Y¥^Z^]SY  
@HWI-EAS443:3:81:897:1882#0/1  
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+HWI-EAS443:3:81:897:1882#0/1  
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+HWI-EAS443:3:81:944:259#0/1  
T`bbbaabbba[aa\_bbbba]baaa`aba]Q\_aa`\_S  
@HWI-EAS443:3:82:1109:1925#0/1  
GAGACCGATGCTGTGAATCAGCAATCTGTTCAAGTGGC  
+HWI-EAS443:3:82:1109:1925#0/1  
^bbbabaaa\_]aa`abaaabbb\_I\_`\_\_¥a[abaa[^a¥\_  
@HWI-EAS443:3:82:1179:1147#0/1  
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+HWI-EAS443:3:82:1179:1147#0/1  
Z\_ZV\_babb`[\`¥\_W¥^Wab``a`Ya]aW¥a`a^^^J]a\_  
@HWI-EAS443:3:82:1251:581#0/1  
AATTTGCAGGCCTACCAGAAGCGAATGGGAGTGCAGATGC  
+HWI-EAS443:3:82:1251:581#0/1  
a\_b\_bVaa^aVa[aaaaabab\_\_[bbbbbaaa`babb[  
@HWI-EAS443:3:82:1325:1063#0/1  
ATCGCTGCATCTGCACTCCCATTCGTTCTGGTAGGCCTG  
+HWI-EAS443:3:82:1325:1063#0/1  
`¥]\_]^a`a¥]Y¥¥^`^SZ\_`a`YZF]\_]ZY\_[\_X¥VYZU  
@HWI-EAS443:3:82:1467:371#0/1  
AATAGTTCTCATTGCATGTACCATCTGCCTAGTCTGATTA  
+HWI-EAS443:3:82:1467:371#0/1  
abbbbabbbabaabaa`bab`abbabaX]a`ba\_aa\_a\_a  
@HWI-EAS443:3:82:1555:1891#0/1  
GATATTTGCTGCAATGACGAGAGGATCACTTGAATCGCTG  
+HWI-EAS443:3:82:1555:1891#0/1  
`babaa`baab[ab`a``bbaa\_[[TQWTa\_`a`Y]]\_`



@HWI-EAS443:3:82:291:466#0/1  
GTGACCACAGAAGCTGCTTTTGGTCTAGTGTGTGCCACTT  
+HWI-EAS443:3:82:291:466#0/1  
aI]¥¥Z\_a\_]T]aYY]¥\_\_]\_¥KZ^¥\_aY\_Z^U[V^[Z^V  
@HWI-EAS443:3:82:397:89#0/1  
GTGAGACCGATGCTGTGAATCAGCAATCTGTTCAACAAGTG  
+HWI-EAS443:3:82:397:89#0/1  
a`baba\_\_baaaaa]aa`\_\_`aY\_\_`]a\_^\_\_]]`M^X`  
@HWI-EAS443:3:82:424:433#0/1  
AATCAGACTAGGCAGATGGTACATGCAATGAGAACTATTG  
+HWI-EAS443:3:82:424:433#0/1  
]``aaabbabaaaa`aaa]aa``a\_a````\_a\_a^a\_```\_  
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CAGCAATCTGTTCAACAAGTGGCACACACTAGACCAAAGC  
+HWI-EAS443:3:82:427:557#0/1  
aabbbabbbbaabaa`ba\_aabaa`aa`aaaa`aaaa`\_  
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GTGCAGATGCAGCGATTCAAGTGATCCTCTCGTCATTGCA  
+HWI-EAS443:3:82:471:109#0/1  
a`b``\_]aaaa[a]\_`\_WZU`Z^\_T[X\_]YX\_]Y^^VX  
@HWI-EAS443:3:82:532:597#0/1  
TACATTTGAAAAAAGACGATCAGTAATCCACAATATCAG  
+HWI-EAS443:3:82:532:597#0/1  
abaababbabaaab`aaaa`^^¥]Yaa\_]a`P`a\_`^`[^`^  
@HWI-EAS443:3:82:550:204#0/1  
ACCTTCTTGAAAATTTGCAGGCCTACCAGAAGCGAATGGG  
+HWI-EAS443:3:82:550:204#0/1  
¥Z\_ababa\_\_^^`T¥a[ ]`ZV\_Y]``\_aYU]`aZW`\_a`  
@HWI-EAS443:3:82:561:1772#0/1  
CTGTGAATCAGCAATCTGTTCAACAAGTGGCACACACTAGA  
+HWI-EAS443:3:82:561:1772#0/1  
aaa`bbaabbaaabab`a]aaaaba`Za`aaaaa`\_]\_a`  
@HWI-EAS443:3:82:576:1005#0/1  
GCTTCTGTGGTCACTGTTCCCATCCTGTTGTATATGAGGC  
+HWI-EAS443:3:82:576:1005#0/1  
ab]`¥`]YQZZ`aa][[^¥a]`^a\_YVY\_¥Z\_\_`[V[ZS^  
@HWI-EAS443:3:82:70:99#0/1  
TGGAAAGTGTCTTTGCAGGAAAGAACACAGATCTTGAGGC  
+HWI-EAS443:3:82:70:99#0/1  
aa`a``aZb\_\_a`a\_\_\_`a]^^^]^^^W\_\_^^Z\_^\_VX^X  
@HWI-EAS443:3:82:760:1473#0/1  
ACCGATGCTGTGAATCAGCAATCTGTTCAACAAGTGGCACA  
+HWI-EAS443:3:82:760:1473#0/1  
`a\_aa`\_aa\_\_aaaa`Z`aa`aaa¥\_a[aa`a`V`[]a`a  
@HWI-EAS443:3:82:854:138#0/1  
GTGACCACAGAAGCTGCTTTTGGTCTAGTGTGTGCCACTT  
+HWI-EAS443:3:82:854:138#0/1  
a\_`\_\_Z`\_aaRZ[^]\_Y[¥\_\_^YU[]YVUU]U]UXXXYY  
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@HWI-EAS443:3:83:1382:1549#0/1  
CTCATATACAACAGGATGGGAACAGTGACCACAGAAGCTG  
+HWI-EAS443:3:83:1382:1549#0/1  
abbbbbbb`bbaaabbaaaa\_b\_a`\_ab\_HZIX]a[\_RXW  
@HWI-EAS443:3:83:1455:1118#0/1  
GGGCTCATATACAACAGGATGGGAACAGTGACCACAGAA  
+HWI-EAS443:3:83:1455:1118#0/1  
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CTAGTGTGTGCCACTTGTGAACAGATTGCTGATTCACAGC  
+HWI-EAS443:3:83:1541:184#0/1  
\_Q^TW\_¥J\_^¥^`b\_XZa^L¥]\_W\_¥P\_b¥STVQM¥\_V  
@HWI-EAS443:3:83:1667:1840#0/1  
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aabRaaa\_aabIX\_\_ba\_W\_\_`[Xa\_UR^\_\_X\_\_]\_ZUZ\_  
@HWI-EAS443:3:83:1746:425#0/1  
CAGGCCTACCAGAAGCGAATGGGAGTGCAGATGCAGCGAT  
+HWI-EAS443:3:83:1746:425#0/1  
R]¥U¥`ba^ab`aab\_b^[b`ba`V`^a`]]`[``Za¥V  
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ATGATATTTGCTGCAATGACGAGAGGATCACTTGAATCGC  
+HWI-EAS443:3:83:278:313#0/1  
a^^]aaaaa`\_U^^``a[``a`\_``\_\_^\_^\_`[]\_\_  
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+HWI-EAS443:3:83:421:1748#0/1  
abba\_]\_]\_]baaaabZ]^``aa\_]\_]\_]V¥^`aaaa]`  
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+HWI-EAS443:3:83:544:464#0/1  
\_J\_V\_b`\_Y`]aWUU]U][TZaaa\_PTX00`\_\_\_\_`V`Z^[  
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+HWI-EAS443:3:83:577:422#0/1  
a`a]a\_bbaba\_aa^aaa\_aa]Z`[`aaa\_\_aY```aa`  
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+HWI-EAS443:3:83:603:334#0/1  
Q\_baabbbbbbb\_\_¥[b`Y\_\_babbbab`aab`bU[bbb[a  
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+HWI-EAS443:3:83:664:671#0/1  
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@HWI-EAS443:3:84:1180:891#0/1  
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`abaaaabaa^\_aabab`ab`ab`a¥aaa`a]a^aaa`Za  
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^ab^a]\_\_^^¥aaaa`]R]`WTXX`Q\_a^YVZV[]VY^XR  
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UX\_VGW^aab\_VXa¥[W\_^^\_Va^b`\_[YM^``a``a\_a  
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a\_aaa`W\_a^a`aYU¥\_``aa\_a\_a`Z`Za\_`aa^``  
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+HWI-EAS443:3:84:1448:1067#0/1  
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aaaa\_¥\_aa¥]a^aa]\_`a`a\_a\_\_\_^`^a]\_\_^^\_\_\_\_  
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+HWI-EAS443:3:84:1631:358#0/1  
aba\_bbabbbaabaWb\_a`a]`a\_a^aba\_a`]a^\_Xa¥^  
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+HWI-EAS443:3:84:1649:842#0/1  
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+HWI-EAS443:3:84:236:1102#0/1  
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+HWI-EAS443:3:84:309:609#0/1  
]`baaXaI[aa\_`\_`aaa`\_\_[[`\_\_`[a`aX^]]\_Z\_  
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@HWI-EAS443:3:84:754:486#0/1  
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+HWI-EAS443:3:84:754:486#0/1  
ab``^a[``aa]baaaaa^]aaaaba\_`R¥S````aa\_]\_]\_  
@HWI-EAS443:3:84:770:386#0/1  
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+HWI-EAS443:3:84:770:386#0/1  
^\_Z\_[\_Y\_SZaaa``bZaaHaaaZ¥Uaa\_bUbaaaaaZ]Q  
@HWI-EAS443:3:84:808:439#0/1  
GGGCCTCATATACAACAGGATGGGAACAGTGACCACAGAA  
+HWI-EAS443:3:84:808:439#0/1  
a`a`aa\_]a]\_\_^\_¥Va`W\_a]`Z\_\_\_^W\_]a^W^[\_QU  
@HWI-EAS443:3:84:808:691#0/1  
ATGAGTCCCAATAGTTCTCATTGCATGTACCATCTGCCTA  
+HWI-EAS443:3:84:808:691#0/1  
`a\_Y^`a\_a\_babaabaa\_\_a\_a`aaa`ab^a]a\_a\_aa]  
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CTGTGGTCACTGTTCCCATCCTGTTGTATATGAGGCCCAT  
+HWI-EAS443:3:84:815:713#0/1  
a^TZZXKW`baba`]aabQ`bb]\_b¥]¥b¥baa\_\_\_a¥\_  
@HWI-EAS443:3:84:867:471#0/1  
GATGCTGTGAATCAGCAATCTGTTCCACAAGTGGCACACAC  
+HWI-EAS443:3:84:867:471#0/1  
aaabaababaaa\_aa```a`aa\_a]a``\_a[^a\_a`a`a[  
@HWI-EAS443:3:84:906:427#0/1  
TGATATTTGCTGCAATGACGAGAGGATCACTTGAATCGCT  
+HWI-EAS443:3:84:906:427#0/1  
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GGCTAGCACTACGGCAAAGGCTATGGAACAGATGGCTGGA  
+HWI-EAS443:3:84:924:405#0/1  
aaaa`ab^aaa]^]aa\_a¥`a```\_Ya¥aa`\_aaY```\_  
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CAAGTGGCACACACTAGACCAAAGCAGCTTCTGTGGTCA  
+HWI-EAS443:3:84:951:1076#0/1  
^^[\_Y¥Zab]\_baaaa\_^]abaaa]aa`a`[abU^^XS]  
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GAGAGCCTCAAGATCTGTGTTCTTTCTGCAAAGCACTT  
+HWI-EAS443:3:85:1095:835#0/1  
aZZW`[aaa^`aSaabb`bZ\_\_ZW[^`\_\_a¥`^aaZR\_\_a  
@HWI-EAS443:3:85:1190:186#0/1  
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+HWI-EAS443:3:85:1190:186#0/1  
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@HWI-EAS443:3:85:1386:1151#0/1  
GAAGCTCAAAGAGAAATAACGTTCCATGGGGCCAAGGAG  
+HWI-EAS443:3:85:1386:1151#0/1  
Zabbbb[`baba]bZbbbbbab`ab\_aababb``aab``b  
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+HWI-EAS443:3:85:1406:1329#0/1  
 a^`aa%a]^X]^a]Ua%Z^Z^YTU[W%YU%S[%US  
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 +HWI-EAS443:3:85:1502:404#0/1  
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 +HWI-EAS443:3:85:1571:1453#0/1  
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 +HWI-EAS443:3:85:1732:542#0/1  
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 +HWI-EAS443:3:85:1774:1278#0/1  
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 +HWI-EAS443:3:85:1776:1206#0/1  
 a\_`b`aaaa]`aaa]aa]`\_Z]a]`Z`^`%`\_`^`[]`\_`^[  
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 +HWI-EAS443:3:85:226:498#0/1  
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 +HWI-EAS443:3:85:326:898#0/1  
 aabZaSa\_P\_aaaaPaaaaa``aa``a\_`Z\_a[]a\_\_\_\_  
 @HWI-EAS443:3:85:475:1453#0/1  
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 +HWI-EAS443:3:85:475:1453#0/1  
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 ACTAGGCAGATGGTACATGCAATGAGAACTATTGGGACTC  
 +HWI-EAS443:3:85:507:1731#0/1  
 a`\_`^M0]P`\_aSNVSTWHa]\_aa][a]]`\_]\_Z]^\_[\_  
 @HWI-EAS443:3:85:509:1426#0/1  
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 +HWI-EAS443:3:85:509:1426#0/1  
 abaa`RY`ZW`[a\_Y^W\_PY\_a]]`]V`^XZ`Raa\_\_a^%  
 @HWI-EAS443:3:85:611:1889#0/1  
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 +HWI-EAS443:3:85:611:1889#0/1  
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@HWI-EAS443:3:85:615:825#0/1  
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+HWI-EAS443:3:85:615:825#0/1  
abaaababb]\_^a^ababa\_abaa`\_aa`a`\_aaaaa  
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CAGCAATCTGTTCAACAAGTGGCACACACTAGACCAAAGC  
+HWI-EAS443:3:85:663:1871#0/1  
aaUaXaSa\_[WZV`]^SZGVUZX[\_`\_]¥a¥SPN^^VSY`  
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+HWI-EAS443:3:85:786:1124#0/1  
aaaa`aaabaaa\_Z]Y`a]aaQWSSM[]T¥YYO[YP\_YXZ  
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GAAGCTGCTTTTGGTCTAGTGTGTGCCACTTGTGAACAGA  
+HWI-EAS443:3:85:914:1367#0/1  
abb\_aaaaa`\_`\_^aaa\_¥\_^\_]a^aa`\_a`¥\_aa^a`\_  
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GTGGATTACTGATCGTCTTTTTTTCAAATGATTTATCGT  
+HWI-EAS443:3:86:1091:396#0/1  
`[][]\_]W]a\_\_\_^UXa]Z]^\_X]^XW]SZ\_¥^VQ[Y  
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+HWI-EAS443:3:86:1145:960#0/1  
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+HWI-EAS443:3:86:1165:471#0/1  
Xa¥`baORTaaS]\_a^T^a\_ZV`¥KTaZZOX\_PZPZVG\_  
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+HWI-EAS443:3:86:117:898#0/1  
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+HWI-EAS443:3:86:1258:121#0/1  
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GCGCAGAGACTGGAAAGTGTCTTTGCAGGAAAGAACACAG  
+HWI-EAS443:3:86:1400:411#0/1  
W`\_O^¥RU]Y^b\_\_[^ZW\_XD¥V]XLR]\_Q]]`^MFWF[`  
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ATGCTGTGAATCAGCAATCTGTTCAACAAGTGGCACACACT  
+HWI-EAS443:3:86:1534:907#0/1  
^ab^\_abba`\_`\_`baabbYaba`\_a\_aaa\_a\_\_a0\_U`\_]\_  
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CTTGCACCTGATATTGTGGATTACTGATCGTCTTTTTTTC  
+HWI-EAS443:3:86:1571:433#0/1  
a`¥`\_U\_\_[a¥aabaa`b¥IYb\_T[ba`[¥YDU]`aaa^0  
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aa]^`a[P]abaababbba\_ab\_\_\_a][b\_]a`\_]\_0\_Q  
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+HWI-EAS443:3:86:224:654#0/1  
\_`b\_\_aabb\_\_^ab¥^Za¥W¥XZ`^UR]¥ZZ`\_]`aaaa  
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+HWI-EAS443:3:86:347:90#0/1  
aaaaa]^`aa`\_`a`\_`\_`a¥`^`\_a`¥¥`\_\_\_\_`]¥W¥\_V¥VZ  
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+HWI-EAS443:3:86:52:1060#0/1  
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+HWI-EAS443:3:86:585:1818#0/1  
aNG[^Z0]^`^aa[`]¥\_Q¥]^`[] [PX\_WW¥`Z[[a]a\_  
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+HWI-EAS443:3:86:604:357#0/1  
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CACAGAAGCTGCTTTTGGTCTAGTGTGTGCCACTTGTGAA  
+HWI-EAS443:3:86:700:322#0/1  
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+HWI-EAS443:3:86:706:2043#0/1  
abb\_bbbb\_^bbaabbab\_\_bbbbabbaa]bbbaaaa`bb  
@HWI-EAS443:3:86:709:473#0/1  
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+HWI-EAS443:3:86:709:473#0/1  
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+HWI-EAS443:3:86:917:1753#0/1  
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¥\_b¥VX¥¥[aS¥^[L`aa\_a[\_¥\_YU^H^ZQVXYZ`\_IJK

@HWI-EAS443:3:87:1021:685#0/1  
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+HWI-EAS443:3:87:1072:1039#0/1  
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+HWI-EAS443:3:87:1089:454#0/1  
aaZa\_\_aaa`a`]`\_YXaa\_\_^\_\_\_\_^YU[`^WTNXWa[\_U  
@HWI-EAS443:3:87:1170:718#0/1  
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+HWI-EAS443:3:87:1170:718#0/1  
X]XX]\_b^^¥a^` [a¥P¥^^]\_a\_PMTZaaQQ^]]YHFJ¥  
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+HWI-EAS443:3:87:1198:639#0/1  
a\_`a¥a\_[^ZPU`\_aa^WW¥]a[\_\_[aaK\_P]a¥^¥aUZ\_  
@HWI-EAS443:3:87:1250:748#0/1  
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+HWI-EAS443:3:87:1250:748#0/1  
a\_\_`a^`a\_aa`aa`a`aaa^aa`aY\_``\_Z]]`a\_\_¥^\_  
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+HWI-EAS443:3:87:1318:1209#0/1  
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@HWI-EAS443:3:87:1348:2018#0/1  
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+HWI-EAS443:3:87:1348:2018#0/1  
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+HWI-EAS443:3:87:1361:619#0/1  
`]\_bb\_bb`aaY`]a^T`aa^a\_aUM``Z]H]aVa\_\_¥^`  
@HWI-EAS443:3:87:146:1688#0/1  
ATCGTCTTTTTTCAAATGTATTTATCGTCGCTTTAAATA  
+HWI-EAS443:3:87:146:1688#0/1  
`a^][aaaaaaaa\_\_aa]YVa`aaa^]\_Z`\_]\_\_a\_^¥^  
@HWI-EAS443:3:87:1491:1226#0/1  
CAGGCCTACCAGAAGCGAATGGGAGTGCAGATGCAGCGAT  
+HWI-EAS443:3:87:1491:1226#0/1  
abbbbbbabababba\_bbabbbbaab`babbabb^ab\_baa  
@HWI-EAS443:3:87:1571:1484#0/1  
ATCGTCTTTTTTCAAATGTATTTATCGTCGCTTTAAATA

+HWI-EAS443:3:87:1571:1484#0/1  
aaa`ZZa^bbba\_¥aaY^`Yabbaab`a¥a^`ba`\_]XZ  
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AGAAGCTGCTTTTGGTCTAGTGTGTGCCACTTGTGAACAG  
+HWI-EAS443:3:87:226:184#0/1  
aaa`aa\_`Q)`\_\_\_\_[¥^X]\_Y^X\_]VV]WW]U]W]X]XX^  
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CACTGGAGCTAGGATGAGTCCCAATAGTTCTCATTGCATG  
+HWI-EAS443:3:87:471:777#0/1  
]b`bYa]b`¥`a\_a`¥[Xa]a\_aaa\_aa\_`]X^a`a`\_  
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+HWI-EAS443:3:87:613:711#0/1  
abbb`\_baa`aba\_aaZa\_aaaa\_a^aaa^``aX\_]Va  
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AGTGACCACAGAAGCTGCTTTTGGTCTAGTGTGTGCCACT  
+HWI-EAS443:3:87:724:1268#0/1  
^b[bbbaa\_`abb\_a\_Taaa`^ZU\_a]¥]¥a``\_\_\_\_[a``  
@HWI-EAS443:3:87:796:1831#0/1  
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+HWI-EAS443:3:87:796:1831#0/1  
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+HWI-EAS443:3:87:814:158#0/1  
a`^^^a[^ab¥\_]a`aaaY`aaaaa\_`X¥Z\_`\_[a^WVS  
@HWI-EAS443:3:87:877:1596#0/1  
GGAGTGCAGATGCAGCGATTCAAGTGATCCTCTCGTCATT  
+HWI-EAS443:3:87:877:1596#0/1  
aa\_a^aabaaa`aaaaba\_aaa`a¥a`aaaa^aa`\_\_aa]  
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+HWI-EAS443:3:87:889:1164#0/1  
ab`ZTH^`aaZ^`^\_baaaaaYa\_Za\_Q\_aa]\_¥Ya\_VVV  
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GGGCTCATATACAACAGGATGGGAACAGTGACCACAGAA  
+HWI-EAS443:3:87:895:457#0/1  
\_T\_^["a¥a^XaVU\_[^a\_\_\_a`aY\_\_\_\_Va\_]S[\_[Z^]  
@HWI-EAS443:3:87:91:857#0/1  
GAGACTGGAAAGTGTCTTTGCAGGAAAGAACACAGATCTT  
+HWI-EAS443:3:87:91:857#0/1  
`^\_aaa\_\_^[I^YaaaaaaZ]Y¥`Z`aa```a\_[\_\_^]\_^\_  
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CCCAATGATATTTGCTGCAATGACGAGAGGATCACTTGAA  
+HWI-EAS443:3:88:1029:1071#0/1  
abbbbbbbbbbbbbabbbbabbbababababaaa^a`babaa  
@HWI-EAS443:3:88:1033:162#0/1  
ACTACGGCAAAGGCTATGGAACAGATGGCTGGATCGAGTG  
+HWI-EAS443:3:88:1033:162#0/1  
aabbbaa^aa``aaaaaaaa]\_^`a`\_^\_P]a`\_\_Za\_`V`

@HWI-EAS443:3:88:1046:1000#0/1  
CTTCTGGTAGGCCTGCAAATTTTCAAGAAGGTCATCTTTC  
+HWI-EAS443:3:88:1046:1000#0/1  
HT`¥]a¥a[YPN^¥[\_a^\_\_`\_V\_`^V\_WX\_P^¥^`b¥aX  
@HWI-EAS443:3:88:104:672#0/1  
AATCGCTGCATCTGCACTCCCATTTCGCTTCTGGTAGGCCT  
+HWI-EAS443:3:88:104:672#0/1  
a¥¥aaa[]aa\_`¥aaU\_]`a\_RVRY\_¥\_W[YY¥WW¥TXSX  
@HWI-EAS443:3:88:111:1511#0/1  
ACTAGACCAAAAGCAGCTTCTGTGGTCACTGTTCCCATCC  
+HWI-EAS443:3:88:111:1511#0/1  
aa`baaaaaaaaa\_aa`a`\_\_a\_Y\_]` `[TR\_^\_Y\_Y]Y  
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GCCTCATATACAACAGGATGGGAACAGTGACCACAGAAGC  
+HWI-EAS443:3:88:1122:933#0/1  
^[HO[S\_ba[`]]]XaZ)`aab[OUPW[PURDY`]]]BBB  
@HWI-EAS443:3:88:1153:394#0/1  
GAACAGTGACCACAGAAGCTGCTTTTGGTCTAGTGTGTGC  
+HWI-EAS443:3:88:1153:394#0/1  
^\_baWa¥^b^XZ`Y`bb`Z]\_\_a^aa\_]¥\_aaa]]R]^^[  
@HWI-EAS443:3:88:1180:384#0/1  
GTGCAGATGCAGCGATTCAAGTGATCCTCTCGTCATTGCA  
+HWI-EAS443:3:88:1180:384#0/1  
\_N\_` `` `aab\_aaab[aa\_a\_a^`\_`Ra\_]a\_]` `a`¥`  
@HWI-EAS443:3:88:1303:230#0/1  
AAAAGACGATCAGTAATCCACAATATCAGGTGCAAGATCC  
+HWI-EAS443:3:88:1303:230#0/1  
aa`\_Q¥aba`Z^aY^` `a\_]T^\_a\_`X]aaVa`¥\_a`\_][  
@HWI-EAS443:3:88:1372:53#0/1  
ACGATAAATACATTTGAAAAAAGACGATCAGTAATCCAC  
+HWI-EAS443:3:88:1372:53#0/1  
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@HWI-EAS443:3:88:156:1489#0/1  
GTCTTTTTTTCAAATGTATTTATCGTCGCTTTAAATACGG  
+HWI-EAS443:3:88:156:1489#0/1  
aaaaaaaaaaaa`aa`abWaaaa¥]\_a\_a\_\_`a\_`¥\_¥`^a`  
@HWI-EAS443:3:88:1593:602#0/1  
GTGCCACTTGTGAACAGATTGCTGATTCACAGCATCGGTC  
+HWI-EAS443:3:88:1593:602#0/1  
\_W]a]a^Zaa[^^`\_I`\_[¥]P\_b\_aa¥a`]\_\_`\_0]\_LJ  
@HWI-EAS443:3:88:159:183#0/1  
GGGCCTCATATACAACAGGATGGGAACAGTGACCACAGAA  
+HWI-EAS443:3:88:159:183#0/1  
abaaaaaaaaaaaaaaaaaaaa`aaa\_`¥\_`^V\_`¥X^\_`\_\_Z  
@HWI-EAS443:3:88:166:347#0/1  
GGAGTGCAGATGCAGCGATTCAAGTGATCCTCTCGTCATT  
+HWI-EAS443:3:88:166:347#0/1  
aaaa¥ba`aa`aa`a`a\_`^`^aY\_¥\_ZZ\_¥¥¥\_Y¥^W  
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GACCGATGCTGTGAATCAGCAATCTGTTCAAGTGGCAC

+HWI-EAS443:3:88:170:116#0/1  
]XW\_\_UUaaab\_ba`b\_UU\_`aa^a\_\_¥ZZ]RUU]TS¥S  
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GCAGATGCAGCGATTCAAGTGATCCTCTCGTCATTGCAGC  
+HWI-EAS443:3:88:177:1509#0/1  
a`a`aa\_a]\_¥V]`WL]XWY]^¥Z`X`^RX[]XN¥Z¥Y  
@HWI-EAS443:3:88:1788:1178#0/1  
CAACTGGCAAGTGACCAGTTGAATAGCTTAGTGACACCT  
+HWI-EAS443:3:88:1788:1178#0/1  
T^W\_Za^Z[[][Q\_\_QUaa^^a\_M¥a`ab\_``b]^XD¥  
@HWI-EAS443:3:88:259:203#0/1  
TCGGGTCCCCATTCCCATTTAGGGCATTGGACAAAGCG  
+HWI-EAS443:3:88:259:203#0/1  
aba`bYb`baa\_a`Y¥aaa`][P¥\_]a]^```U¥R¥\_W`  
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GGTGTCACTAAGCTATTCAACTGGTGCACCTGCCAGTTGC  
+HWI-EAS443:3:88:281:568#0/1  
ab^`ababbbbaaaaaaaaaaXZ`aaaa`aa\_]`\_`\_`  
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ATCAGGTGCAAGATCCCAATGATATTTGCTGCAATGACGA  
+HWI-EAS443:3:88:313:1503#0/1  
^aa\_]\_OJ¥\_U\_aa[a`bY^aaa`aaa`aUa^\_a\_\_T`^V]  
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aaaaabbbaaaaa^aa\_\_a\_`a\_^\_\_^`a`a\_a\_\_a\_\_  
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TGCACCTGATATTGTGGATTACTGATCGTCTTTTTTTTCAA  
+HWI-EAS443:3:88:409:1768#0/1  
ab\_W^`aZZ`^a`aT[X¥\_`^^¥ZRS```\_`a\_]\_a`\_Y¥H  
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CAGCAATCTGTTCAACAAGTGGCACACACTAGACCAAAAGC  
+HWI-EAS443:3:88:435:1518#0/1  
\_X^b]]`aaaa]aa]a^X[¥\_aaXa\_aa^[aa\_\_\_\_\_^V[  
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ACCTGATATTGTGGATTACTGATCGTCTTTTTTTTCAAATG  
+HWI-EAS443:3:88:479:564#0/1  
^^a]bW\_R¥bbabaZa^`[\_Z``]]¥^aabbbbaadW\_a`  
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ATGGGCCTCATATACAACAGGATGGGAACAGTGACCACAG  
+HWI-EAS443:3:88:712:17#0/1  
abab¥VX[b\_bXYOXXUWO\_b^X]\_[XU[a\_Q`]TXYXR\_  
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`aaabbbabbaabaab\_`baaa`ab^aaaabaaaaaa]aa  
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CGAGATCGCGCAGAGACTGGAAAGTGTCTTTGCAGGAAAG  
+HWI-EAS443:3:88:718:622#0/1  
abbbabbbbaaaaaaab\_bbaa\_baaaaaaa\_aaaa

@HWI-EAS443:3:88:723:876#0/1  
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+HWI-EAS443:3:88:723:876#0/1  
ab\_a`bbabababbabbbaaabaaa\_aaba\_aaa`baaaa  
@HWI-EAS443:3:88:747:1442#0/1  
AGTTCTCATTGCATGTACCATCTGCCTAGTCTGATTAGCA  
+HWI-EAS443:3:88:747:1442#0/1  
¥[NO[\_a\_b` `ab`\_]`bbba\_aa]\_a[b]XZ¥`TZZ¥]  
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GAGAGGATCACTTGAATCGCTGCATCTGCACTCCCATTCTG  
+HWI-EAS443:3:88:751:28#0/1  
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CTGCTTTTGGTCTAGTGTGTGCCACTTGTGAACAGATTGC  
+HWI-EAS443:3:88:75:130#0/1  
abba¥` `aaaZ`aZa¥a]aXa\_\_`][^`U^\_]W[\_]^X\_X  
@HWI-EAS443:3:88:787:1648#0/1  
TACTGATCGTCTTTTTTTCAAATGTATTTATCGTCGCTTT  
+HWI-EAS443:3:88:787:1648#0/1  
`bYa` `b`baabbbbbb\_baaaabb[ab^b`a¥\_` `aba^  
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+HWI-EAS443:3:89:1002:463#0/1  
`ababbbbabbb`babaaabaaaa`a`aa`a\_a`aaaa\_  
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CTTGCACCTGATATTGTGGATTACTGATCGTCTTTTTTTTC  
+HWI-EAS443:3:89:1016:912#0/1  
a^YT]a`a`aaa\_` `[La^\_a[aXaa\_[0^[\_a\_aa`\_`U  
@HWI-EAS443:3:89:1095:1099#0/1  
GTGTGTGCCACTTGTGAACAGATTGCTGATTCACAGCATC  
+HWI-EAS443:3:89:1095:1099#0/1  
abb`a`X^^`abba[\_aaZ`b^a`^]abaaaa` `aba[aQ  
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CATGGGGCCAAGGAGGTGTCACTAAGCTATTCAACTGGTG  
+HWI-EAS443:3:89:1104:751#0/1  
][^¥a`\_^Zba]W^]aY`a\_V¥aa\_a` `a\_aa]XZ\_U\_  
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+HWI-EAS443:3:89:1148:988#0/1  
`[ `]a`a\_HZ`¥]¥ZV`WXJ`]^UM`PWKXT]ZMZPRM  
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+HWI-EAS443:3:89:1195:1452#0/1  
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+HWI-EAS443:3:89:1325:1086#0/1  
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@HWI-EAS443:3:89:1327:1223#0/1  
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+HWI-EAS443:3:89:1327:1223#0/1  
`\_`ZX[a]Ya]U`Z\_X\_aaaaba\_H]aa]aVaa`a\_^S`Y  
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+HWI-EAS443:3:89:1587:155#0/1  
QK\_bbba`aaaY``^`ba`a`Y]]\_R¥\_^a\_\_[O`¥\_¥VU  
@HWI-EAS443:3:89:1673:1748#0/1  
CTAGACCAAAGCAGCTTCTGTGGTCACTGTTCCCATCCT  
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¥`\_ba¥]`\_bb]`\_babbaaa]aa`ab``aaa\_`a]]]aa  
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+HWI-EAS443:3:89:1734:190#0/1  
aaaaa`babb[HYaaa^Za]UTS`R^a]YZ[Y]WQJJR][  
@HWI-EAS443:3:89:352:1869#0/1  
CGATCAGTAATCCACAATATCAGGTGCAAGATCCCAATGA  
+HWI-EAS443:3:89:352:1869#0/1  
a`\_`a\_XV¥a\_\_aaaaa`a`aaVVM\_¥aa``X¥¥^a\_\_^`  
@HWI-EAS443:3:89:385:1868#0/1  
CTGATATTGTGGATTACTGATCGTCTTTTTTTCAAATGTA  
+HWI-EAS443:3:89:385:1868#0/1  
J¥\_`[`a`\_]`\_\_[Xaab^]X¥aW][b^V\_\_X\_]b¥^`N]  
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GGGAGTGCAGATGCAGCGATTCAAGTGATCCTCTCGTCAT  
+HWI-EAS443:3:89:410:167#0/1  
a`a\_\_^a\_\_`\_]`\_a\_[aXX^^^`X^`^X^^X^X^X\_X  
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CTTGAATCGCTGCATCTGCACTCCCATTGCTTCTGGTAG  
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abaabbabbbbabbbb¥bbaaa\_`aaaaabaa\_a`aa]ab  
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+HWI-EAS443:3:89:577:1801#0/1  
a]]ZONXW¥KRX\_U\_SV\_RTaW¥¥Y`¥^]`^`SUPG]VQZV  
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+HWI-EAS443:3:89:647:1213#0/1  
a\_^aaNaYa`¥VaX[]^a\_\_a`\_]\_¥¥V^V^¥^^¥ZWZ^Y  
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AAAAAAGACGATCAGTAATCCACAATATCAGGTGCAAGAT  
+HWI-EAS443:3:89:707:564#0/1  
`aaabaVaab``^QRWZ^X¥\_a[^````\_X[^X`YZ][[P  
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+HWI-EAS443:3:89:712:639#0/1  
abaa`bbbbbaababa¥abbbbabbabb`bbaabbb\_



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+HWI-EAS443:3:89:947:681#0/1  
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+HWI-EAS443:3:89:950:273#0/1  
aba\_aabaab\_abaaa`aaba\_`a^aaY\_a[\_a`aa[]N  
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CCGATGCTGTGAATCAGCAATCTGTTCAAGTGGCACAC  
+HWI-EAS443:3:8:1079:996#0/1  
abb¥^X\_¥\_`ab¥UaaaaXa\_`aaab`aaXWaY\_W^\_  
@HWI-EAS443:3:8:1089:772#0/1  
GATCACTTGAATCGCTGCATCTGCACTCCCATTGCTTCT  
+HWI-EAS443:3:8:1089:772#0/1  
aaa`a`bab\_aa`aa`^`\_\_\_a\_\_W\_¥S¥a^¥^W\_^V\_  
@HWI-EAS443:3:8:113:1897#0/1  
CCTTCTTGAAAATTTGCAGGCCTACCAGAAGCGAATGGGA  
+HWI-EAS443:3:8:113:1897#0/1  
ab`Z^[Z`^\_T[aaaab]aaba\_aaaaa`aaa\_\_`aa`\_a  
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GACCAATCTTGTACCTCTGACTAAGGGAATTTTAGGATT  
+HWI-EAS443:3:8:1227:1461#0/1  
Y`\_]ab`^a`\_`^aa^¥`Zaba¥a]\_abab^a\_a[`^aZS]  
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+HWI-EAS443:3:8:1316:1853#0/1  
aa¥X`WZaXa[X\_WX[`W[YZ\_ZXPZ\_U`XRNRSZRU¥BB  
@HWI-EAS443:3:8:1352:22#0/1  
GGATCTTGCACCTGATATTGTGGATTACTGATCGTCTTTT  
+HWI-EAS443:3:8:1352:22#0/1  
abaa¥`^`¥aYaaaU`]aaaZaa]\_\_VS¥`Z¥V]YT`\_¥a  
@HWI-EAS443:3:8:1591:476#0/1  
GACTAGGCAGATGGTACATGCAATGAGA ACTATTGGGACT  
+HWI-EAS443:3:8:1591:476#0/1  
ab`bbab`abaabb`a^a```]`a`Ua\_`Ya`a\_\_[\_]X`  
@HWI-EAS443:3:8:222:1654#0/1  
GGGCTCATATACAACAGGATGGGAACAGTGACCACAGAA  
+HWI-EAS443:3:8:222:1654#0/1  
aba`]aab\_abb^`aab[b\_\_aaaa`b[TYb`^[UW[aa  
@HWI-EAS443:3:8:354:1486#0/1  
AAAATTCCCTTAGTCAGAGGTGACAAGATTGGTCTTGTCT  
+HWI-EAS443:3:8:354:1486#0/1  
\_Ua`a\_aaaaa`\_`aa`^T¥`\_`a\_\_^\_\_a\_ZY^Y`X^]  
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+HWI-EAS443:3:8:401:195#0/1  
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GCCCTAAATGGGAATGGGGACCCGAACAACATGGATAGAG  
+HWI-EAS443:3:8:492:396#0/1  
aa\_Z[¥PU[`Z`X¥X\_a`\_]\_^]]\_WTT]UXXY\_]XX¥BB  
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+HWI-EAS443:3:8:549:70#0/1  
a`aa\_a[aa`Ua`¥^a¥\_^^¥^¥\_\_TW¥¥[VX\_YW¥^UUS  
@HWI-EAS443:3:8:816:1670#0/1  
GATCGTCTTTTTTCAAATGTATTTATCGTCGCTTTAAAT  
+HWI-EAS443:3:8:816:1670#0/1  
a\_\_\_\_\_[\_XY]^a`^X¥[V^\_Z\_a^)`WWNS\_\_\_\_]^[]U¥S  
@HWI-EAS443:3:8:960:1518#0/1  
ACAGGATGGGAACAGTGACCACAGAAGCTGCTTTTGGTCT  
+HWI-EAS443:3:8:960:1518#0/1  
a``\_a`¥aa\_^`Q\_`W\_\_¥T¥Y¥^`¥Y¥^\_T¥^WYSYWBB  
@HWI-EAS443:3:8:987:1411#0/1  
ATTACTGATCGTCTTTTTTCAAATGTATTTATCGTCGCT  
+HWI-EAS443:3:8:987:1411#0/1  
`S^ba`[^a^aa¥T]abbaYZ^`\_\_aSaa``a\_\_][X`¥`  
@HWI-EAS443:3:90:1010:493#0/1  
ATACATTTGAAAAAAGACGATCAGTAATCCACAATATCA  
+HWI-EAS443:3:90:1010:493#0/1  
`]S\_a`^`^^]V`XWb]Q[\_\_\_`XGF¥[SVW`UZW]Pa[W  
@HWI-EAS443:3:90:1104:1945#0/1  
GACCGATGCTGTGAATCAGCAATCTGTTCAACAAGTGGCAC  
+HWI-EAS443:3:90:1104:1945#0/1  
a`XZ`aXaZa\_]aa\_\_aa`¥aaa^S`^^`\_]\_¥`G`YO]]  
@HWI-EAS443:3:90:1171:349#0/1  
GATCGTCTTTTTTCAAATGTATTTATCGTCGCTTTAAAT  
+HWI-EAS443:3:90:1171:349#0/1  
aa`aa\_aaaaaaa¥a`aa]`aa`\_^]a\_^\_]`\_^]`^  
@HWI-EAS443:3:90:1221:961#0/1  
GTCTAGTGTGTGCCACTTGTGAACAGATTGCTGATTCACA  
+HWI-EAS443:3:90:1221:961#0/1  
``bYHZaZO^N¥VXZ\_aW\_Yba]^`aT^`H`a]ZR^`T[  
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GTCCTAAGCTATTCAACTGGTGCACCTGCCAGTTGCATG  
+HWI-EAS443:3:90:137:628#0/1  
aabaaVFRbb¥\_a]aaXY)`a[¥aa\_T[aVY`^R\_\_R¥XP  
@HWI-EAS443:3:90:1473:1372#0/1  
TGATCGTCTTTTTTCAAATGTATTTATCGTCGCTTTAAA  
+HWI-EAS443:3:90:1473:1372#0/1  
\_babaaVbbbbbaa`¥¥VWYbU]`aaa^`\_¥]KY`]`V\_\_  
@HWI-EAS443:3:90:1622:589#0/1  
GGGCCTCATATACAACAGGATGGGAACAGTGACCACAGAA  
+HWI-EAS443:3:90:1622:589#0/1  
abaa`aaabbbbaaaaaabaaba`])`a`aa\_baa[a¥aaa\_

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GAATCAGCAATCTGTTACACAAGTGGCACACACTAGACCAA  
+HWI-EAS443:3:90:1628:1346#0/1  
aaaa`aaaaaa\_ab`a`a`aaa^^ZZa]a``]`\_`\_]\_\_  
@HWI-EAS443:3:90:1665:1433#0/1  
CTAGACCAAAAGCAGCTTCTGTGGTCACTGTTCCCATCCT  
+HWI-EAS443:3:90:1665:1433#0/1  
aaabaaabbababbbabba`U]baT[a\_aaaaW^\_]\_a  
@HWI-EAS443:3:90:1671:1774#0/1  
GAGAAATAACGTTCCATGGGGCCAAGGAGGTGTCACTAAG  
+HWI-EAS443:3:90:1671:1774#0/1  
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+HWI-EAS443:3:90:1752:761#0/1  
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GGCCTACCAGAAGCGAATGGGAGTGCAGATGCAGCGATTC  
+HWI-EAS443:3:90:324:492#0/1  
aab\_W\_aaZ^V\_aa`X^^\_RY]^¥aZZW`QZT\_OYUVP^P  
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AATCTGTTACACAAGTGGCACACACTAGACCAAAAGCAGCT  
+HWI-EAS443:3:90:470:400#0/1  
aaaaaS\_a`b`a`a`aaa^aYa\_```\_`\_a```]Wa`\_`^a  
@HWI-EAS443:3:90:498:1418#0/1  
CGCGCAGAGACTGGAAAGTGTCTTTGCAGGAAAGAACACA  
+HWI-EAS443:3:90:498:1418#0/1  
aba\_a\_\_\_\_\_``\_\_aaaS\_^\_\_\_¥Z\_X^\_Q¥`T[¥Q\_¥^  
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CGCGCAGAGACTGGAAAGTGTCTTTGCAGGAAAGAACACA  
+HWI-EAS443:3:90:551:947#0/1  
\_abaa`\_]aaaVW`]¥X[\_UXR[[SX[]YUXW¥S^¥U^\_  
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GGGCCTCATATACAACAGGATGGGAACAGTGACCACAGAA  
+HWI-EAS443:3:90:572:1269#0/1  
W\_`¥[^a\_a\_\_¥[^]\_\_aW\_aaa\_]a\_^]\_\_\_^abbb\_Q  
@HWI-EAS443:3:90:623:257#0/1  
GTGGCACACACTAGACCAAAAGCAGCTTCTGTGGTCACTG  
+HWI-EAS443:3:90:623:257#0/1  
a`a\_aaQ`\_\_¥V\_^U¥\_\_\_[R^¥^\_^¥^¥¥]W^¥V¥¥UVU  
@HWI-EAS443:3:90:782:1189#0/1  
CAGGCCTACCAGAAGCGAATGGGAGTGCAGATGCAGCGAT  
+HWI-EAS443:3:90:782:1189#0/1  
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@HWI-EAS443:3:90:790:1213#0/1  
CTGATCGTCTTTTTTTCAAATGTATTTATCGTCGCTTTAA  
+HWI-EAS443:3:90:790:1213#0/1  
Y\_H\_`Za```V\_Q\_b\_XX]SHXX]\_aX\_YO\_a]OYa^b`V  
@HWI-EAS443:3:90:837:1971#0/1  
CAGCGATTCAAGTGATCCTCTCGTCATTGCAGCAAATATC

+HWI-EAS443:3:90:837:1971#0/1  
\_¥`]Vb[[\_H\_]Ibaa`b`b]bbUbSa]a`Y`\_]\_^\_aY\_  
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CGAGAGGATCACTTGAATCGCTGCATCTGCACTCCCATTCC  
+HWI-EAS443:3:91:1058:1090#0/1  
aa`aaZ\_\_¥T\_^\_Y[X\_Z`¥`]V\_`Z\_\_a`QX\_RI`\_¥^U  
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+HWI-EAS443:3:91:1080:1078#0/1  
ab]`^aXaba]^P\_abaa\_a`¥RWVaabaa[^a``b  
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CAGTGACCACAGAAGCTGCTTTTGGTCTAGTGTGTGCCAC  
+HWI-EAS443:3:91:1091:1563#0/1  
aab`bbbbbabbbabbaabbbbaXa\_^[]`Xb]aa`a\_  
@HWI-EAS443:3:91:117:653#0/1  
AGAAGCTGCTTTTGGTCTAGTGTGTGCCACTTGTGAACAG  
+HWI-EAS443:3:91:117:653#0/1  
aa]aaa`aaX`\_`aZS`aaaZ\_^`R`R[\_]^`0\_\_`T[]  
@HWI-EAS443:3:91:1188:149#0/1  
ATGATATTTGCTGCAATGACGAGAGGATCACTTGAATCGC  
+HWI-EAS443:3:91:1188:149#0/1  
Ta`a¥aa`a`bbb¥^```\_bbb`^W\_abW`Z\_¥¥¥NWW  
@HWI-EAS443:3:91:1227:1132#0/1  
AGTGACCACAGAAGCTGCTTTTGGTCTAGTGTGTGCCACT  
+HWI-EAS443:3:91:1227:1132#0/1  
ab\_abbbaabbbbaa\_ba`aabaaa]^a`a`a\_a\_\_^`¥`  
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CAAATATCATTGGGATCTTGCACCTGATATTGTGGATTAC  
+HWI-EAS443:3:91:1259:2004#0/1  
`abaabb\_bba`¥bbbabba^bb`aaabaaba`baaaba]  
@HWI-EAS443:3:91:1308:1164#0/1  
ACTGGAGCTAGGATGAGTCCCAATAGTTCTCATTGCATGT  
+HWI-EAS443:3:91:1308:1164#0/1  
abb`b\_a^]bba¥`a`aU\_]a\_^a]\_`[a]`\_a\_\_\_\_a\_  
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AGATCCCAATGATATTTGCTGCAATGACGAGAGGATCACT  
+HWI-EAS443:3:91:1363:205#0/1  
abbaYab^\_abb`aU\_b^ba`aaWa]^aa`b^\_\_`\_Ua  
@HWI-EAS443:3:91:1396:1269#0/1  
GCAAGATCCCAATGATATTTGCTGCAATGACGAGAGGATC  
+HWI-EAS443:3:91:1396:1269#0/1  
\_a[]`]a`Y`T`aa`a`Zaa`\_aa`^`\_`X\_\_``aa\_[]  
@HWI-EAS443:3:91:1430:1128#0/1  
GGGATCTTGCACCTGATATTGTGGATTACTGATCGTCTTT  
+HWI-EAS443:3:91:1430:1128#0/1  
\_b`\_aaa\_aaa^`ab\_a\_aaa]a`\_a\_Y\_aa\_a[`]Z`\_a  
@HWI-EAS443:3:91:1579:1981#0/1  
ACAGAAGCTGCTTTTGGTCTAGTGTGTGCCACTTGTGAAC  
+HWI-EAS443:3:91:1579:1981#0/1  
`ab`^¥]aaYa`baaaSTaa\_Xb`\_^Qa`a]`^aaa¥

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ATCGTCTTTTTTCAAATGTATTTATCGTCGCTTTAAATA  
+HWI-EAS443:3:91:1584:1042#0/1  
aba`abbabbbb\_abbbbb`b`baa]^Z`^Qabb\_a`a\_  
@HWI-EAS443:3:91:1625:2018#0/1  
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+HWI-EAS443:3:91:1625:2018#0/1  
`b\_a\_bba^UYababbaabbbbbbb^bab^b]Ub^N#b  
@HWI-EAS443:3:91:1733:531#0/1  
ATGGGCCTCATATACAACAGGATGGGAACAGTGACCACAG  
+HWI-EAS443:3:91:1733:531#0/1  
^a#]\_a\_a]a`\_bab^`#a`^`\_#\_a^a#]aVN][aa  
@HWI-EAS443:3:91:195:1122#0/1  
CGAGAGGATCACTTGAATCGCTGCATCTGCACTCCCATTC  
+HWI-EAS443:3:91:195:1122#0/1  
aa`a`aba^bbaaab\_bababa`ab^^#b`aaa^aaa]`a  
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+HWI-EAS443:3:91:286:1985#0/1  
XG\_a``#`VZaSVM^PLYW#U^`M\_#WZSRGPSHNQWUB  
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TGTCACCTAAGCTATTCAACTGGTGCACTTGCCAGTTGCAT  
+HWI-EAS443:3:91:351:325#0/1  
aaUY\_```ab^`aa``aZ^`\_R\_a[^a^a`[[aVZ`^]`^  
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CGCGCAGAGACTGGAAAGTGTCTTTGCAGGAAAGAACACA  
+HWI-EAS443:3:91:401:342#0/1  
ab\_Z[SWZ[`Y`Z\_a]^`^\_\_T\_ab^GLGUX\_HQX]]WSZ]  
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GGCCTCATATACAACAGGATGGGAACAGTGACCACAGAAG  
+HWI-EAS443:3:91:436:565#0/1  
`^a`a\_a`#````\_a`\_a`\_`\_`^`Y\_[Q\_^XS#W#Y#Y#\_  
@HWI-EAS443:3:91:438:692#0/1  
CAGTAATCCACAATATCAGGTGCAAGATCCCAATGATATT  
+HWI-EAS443:3:91:438:692#0/1  
T^WWS#[aaWZ\_\_^`U\_a\_HR#`bab#Y#Y#[b\_W\_aa[ZP  
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ATCGTCTTTTTTCAAATGTATTTATCGTCGCTTTAAATA  
+HWI-EAS443:3:91:446:710#0/1  
Y[Z[UXUT#]`#Ua``[aaZbZaMaaZ[\_#[\_aa\_`b#P  
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CGAGAGGATCACTTGAATCGCTGCATCTGCACTCCCATTC  
+HWI-EAS443:3:91:483:1240#0/1  
abbbabbbbbXabbabbbabb`abaa`ba`]\_Za\_`a\_`  
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+HWI-EAS443:3:91:484:561#0/1  
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CTTTTGGTCTAGTGTGTGCCACTTGTGAACAGATTGCTGA  
+HWI-EAS443:3:91:540:617#0/1  
[`aZa\_WWbbbbbb\_]bbaababab`babbbbaaa[aba  
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AGTTCTCATTGCATGTACCATCTGCCTAGTCTGATTAGCA  
+HWI-EAS443:3:91:554:81#0/1  
X[W\_aaP\_baaaabaYaX[b`^Ya0¥]b\_\_R`b`ba`a\_a  
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CAGGTGCAAGATCCCAATGATATTTGCTGCAATGACGAGA  
+HWI-EAS443:3:91:57:1544#0/1  
a\_]`^X`bba\_]bb`]bbba`ab`[]]a\_]a`b\_aa^b  
@HWI-EAS443:3:91:646:911#0/1  
AAATAACGTTCCATGGGGCCAAGGAGGTGCTACTAAGCTA  
+HWI-EAS443:3:91:646:911#0/1  
a¥]\_bbabaab\_Z`a`]aa`a`aa`a\_Na\_aaa`a``\_a  
@HWI-EAS443:3:91:674:778#0/1  
CACTAGACCAAAGCAGCTTCTGTGGTCACTGTTCCCATC  
+HWI-EAS443:3:91:674:778#0/1  
abbbbbbbbbbbabbababbbbbbbabbaabab`ababaab\_  
@HWI-EAS443:3:91:679:1086#0/1  
TTACTGATCGTCTTTTTTTCAAATGTATTTATCGTCGCTT  
+HWI-EAS443:3:91:679:1086#0/1  
abaabb]aaa\_aa\_aaab`a¥aa`a]baa\_\_\_\_]OV]]``  
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AAATATCATTGGGATCTTGCACCTGATATTGTGGATTACT  
+HWI-EAS443:3:91:725:798#0/1  
aaY`bba]`a]`^\_X\_aa`a`\_a\_\_a\_a`\_`b\_^\_`\_`  
@HWI-EAS443:3:91:768:1170#0/1  
GGAGGTTGCTAATCAGACTAGGCAGATGGTACATGCAATG  
+HWI-EAS443:3:91:768:1170#0/1  
aa`a[`a\_aa^\_\_`\_`\_]`\_a`\_\_^`R\_]^[¥W`^¥^  
@HWI-EAS443:3:91:782:274#0/1  
TCTGTGGTCACTGTTCCCATCCTGTTGTATATGAGGCCCA  
+HWI-EAS443:3:91:782:274#0/1  
`\_`\_\_aa^\_a`\_`\_`\_Z^`¥X^`¥\_aW`\_`\_¥\_WSUU¥  
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+HWI-EAS443:3:91:789:544#0/1  
\_`babaaX¥¥baY\_Xb\_aa`b¥ab`¥]^\_abaa\_aaa\_a  
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CAGCAATCTGTTCCACAAGTGGCACACACTAGACCAAAGC  
+HWI-EAS443:3:91:898:732#0/1  
abbb^b\_\_aba^`aabbbababaabaa]abaa`a`\_baaL  
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GACCACAGAAGCTGCTTTTGGTCTAGTGTGTGCCACTTGT  
+HWI-EAS443:3:91:936:171#0/1  
aa\_]\_Zaaa`\_¥]\_W^\_¥]^\_XV[]^X`X]V^]Y]VXX]Y

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+HWI-EAS443:3:92:1020:1947#0/1  
a¥\_\_R`¥V]^aa\_] [a\_Y`\_]\_X\_\_[\_V]UaU]Z[`VTU  
@HWI-EAS443:3:92:1048:28#0/1  
TGGGCCTCATATACAACAGGATGGGAACAGTGACCACAGA  
+HWI-EAS443:3:92:1048:28#0/1  
aba^OUa^aa`a`¥``\_¥aaW^a`a\_]U^\_V`\_VT[T[`¥  
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CAAGATTGGTCTTGTCTTTAGCCATTCCATGAGAGCCTCA  
+HWI-EAS443:3:92:1072:368#0/1  
ababbbbbb\_abb]abbabaaabb`\_aaaaabab`\_`\_`a  
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GCTAATCAGACTAGGCAGATGGTACATGCAATGAGAACTA  
+HWI-EAS443:3:92:113:823#0/1  
aaa^aa`Yaa`a`\_\_\_\_\_^[[\_Z\_\_`Z[^\_\_\_\_\_]`¥][[]  
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+HWI-EAS443:3:92:1155:586#0/1  
`a¥a`bbab\_baa\_aaa\_aaaabaaa^`aa\_aaa^\_Za\_b  
@HWI-EAS443:3:92:1163:925#0/1  
GACCGATGCTGTGAATCAGCAATCTGTTCAAGTGGCAC  
+HWI-EAS443:3:92:1163:925#0/1  
`a]UWaHJWLUX`W^PRYNY\_P^G[NX¥XQH[[^0^ZGNY  
@HWI-EAS443:3:92:1232:399#0/1  
GCACCTGATATTGTGGATTACTGATCGTCTTTTTTTCAAA  
+HWI-EAS443:3:92:1232:399#0/1  
aaaa[ab\_a\_\_aaU`\_\_¥\_P`\_]`\_aU]\_aaaa`X`^]  
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GTCTTTTTTTCAAATGTATTTATCGTCGCTTTAAATACGG  
+HWI-EAS443:3:92:1331:260#0/1  
]^`^Taaaa[JYG^a`SG¥^`\_`Q]\_Y`U^\_]S]U`XNP]  
@HWI-EAS443:3:92:1356:345#0/1  
GATCAGTAATCCACAATATCAGGTGCAAGATCCCAATGAT  
+HWI-EAS443:3:92:1356:345#0/1  
a`]Pa\_QZaUQ¥\_SXZa\_a\_] [RS]T``aa[QJQ¥^`¥a¥  
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GCACCTGATATTGTGGATTACTGATCGTCTTTTTTTCAAA  
+HWI-EAS443:3:92:1528:770#0/1  
aaaPYaa\_XY]`¥XZY^\_Y]\_`]a¥XN`\_a\_``^a^Z^Z  
@HWI-EAS443:3:92:1537:1223#0/1  
GGATGGGAACAGTGACCACAGAAGCTGCTTTTGGTCTAGT  
+HWI-EAS443:3:92:1537:1223#0/1  
W\_a^bbb]\_UaaabUNaaaababa]aa\_b\_bZaa`UaS^a  
@HWI-EAS443:3:92:1729:1436#0/1  
GGGCCAAGGAGGTGCTACTAAGCTATTCAACTGGTGCCT  
+HWI-EAS443:3:92:1729:1436#0/1  
`\_`baaaaa\_aa`]\_`a^\_aa\_Za`\_`\_a`[U[^VMXWXM[  
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@HWI-EAS443:3:92:596:890#0/1  
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+HWI-EAS443:3:92:596:890#0/1  
]^GVZ\_aSVU\_¥U\_TRXXPYa\_]ZZGX¥DLX`Z\_]W¥]  
@HWI-EAS443:3:92:632:1304#0/1  
GAAAGATGACCTTCTTGAAAATTTGCAGGCCTACCAGAAG  
+HWI-EAS443:3:92:632:1304#0/1  
``^`aa\_aaaba\_a`^a]V^`a``b¥\_\_a]Va]\_\_\_\_^\_[  
@HWI-EAS443:3:92:644:407#0/1  
GAACACAAATCCTAAAATTCCTTAGTCAGAGGTGACAAG  
+HWI-EAS443:3:92:644:407#0/1  
aa\_Y\_aa`U]aaaa`a`a\_]\_]aa`a\_\_`a\_]`Ua\_X\_\_a  
@HWI-EAS443:3:92:678:971#0/1  
CGCGCAGAGACTGGAAAGTGTCTTTGCAGGAAAGAACACA  
+HWI-EAS443:3:92:678:971#0/1  
abbaa`a]a`\_a`aY]PGa¥`[\_^U[a`\_`\_¥`¥[^W`  
@HWI-EAS443:3:92:696:1985#0/1  
GGTCACTGTTCCCATCCTGTTGTATATGAGGCCCATGCAA  
+HWI-EAS443:3:92:696:1985#0/1  
``aabba`aababbabaa`baaabbaZbX^`aabaaZba  
@HWI-EAS443:3:92:943:680#0/1  
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+HWI-EAS443:3:92:943:680#0/1  
abbabbbaba\_abba`a`a`aabaa`aaaaaaaa`a`a`  
@HWI-EAS443:3:92:974:1858#0/1  
ATCAGCAATCTGTTCAAGTGGCACACACTAGACCAAAA  
+HWI-EAS443:3:92:974:1858#0/1  
aaa¥`^a\_aU¥a^¥Za¥`a\_R\_\_^a``\_]^[a\_aaa\_¥`\_  
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+HWI-EAS443:3:93:105:270#0/1  
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+HWI-EAS443:3:93:1060:1816#0/1  
a`aa\_Y``aa``^V^]aa]aa``a\_aaVP¥^`X^^GYS]Y  
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+HWI-EAS443:3:93:1081:1465#0/1  
a]a`¥\_YZZ`a]0`aa`[^\_¥\_aY]Y^]XL]GW`RMY\_B  
@HWI-EAS443:3:93:111:1569#0/1  
TTGGGATCTTGACCTGATATTGTGGATTACTGATCGTCT  
+HWI-EAS443:3:93:111:1569#0/1  
`baab`[^babbabbb`¥`bbb]bbaa]ba\_baa\_a\_[\_  
@HWI-EAS443:3:93:1201:591#0/1  
CAGCTTCTGTGGTCACTGTTCCCATCCTGTTGTATATGAG  
+HWI-EAS443:3:93:1201:591#0/1  
aabX]^]¥]^]^HWZ\_\_S¥YP[T``RQ`aY^a[¥\_ZSZU\_  
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+HWI-EAS443:3:93:1242:1098#0/1  
aaaa\_abaaaba`\_aaaaaa\_aa`a¥`^¥\_¥a`^G¥W\_\_¥  
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+HWI-EAS443:3:93:133:2041#0/1  
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+HWI-EAS443:3:93:1343:1239#0/1  
aaaa`a^`baaa\_a^a`aaaaaa\_\_\_\_\_^`¥`^Z^`  
@HWI-EAS443:3:93:1461:842#0/1  
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+HWI-EAS443:3:93:1461:842#0/1  
`Ma`X`Ub[Y`Zba\_Z\_\_TNaVH^Ia\_VI]ZG]`SZ`Ya  
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+HWI-EAS443:3:93:1463:1345#0/1  
a^`NY]aa\_aa\_aa`a`aQG[a\_a`a`\_¥]a\_]¥U^U^B  
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+HWI-EAS443:3:93:1520:227#0/1  
\_`aYUaaba[aaa`ba`ba]abba[\_[aa¥aaSZ\_T\_\_¥a  
@HWI-EAS443:3:93:1689:565#0/1  
GCAGAGACTGGAAAGTGTCTTTGCAGGAAAGAACACAGAT  
+HWI-EAS443:3:93:1689:565#0/1  
a\_aa[`¥^a`a\_a`aP]¥X\_\_`\_]\_^U^T^Y\_\_^NZXZ^UZ  
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+HWI-EAS443:3:93:220:2034#0/1  
¥¥bZ\_]¥¥Y^^`\_ba¥0F]`a]]UXaYa[\_\_\_X]a\_`  
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AGCGAATGGGAGTGCAGATGCAGCGATTCAAGTGATCCTC  
+HWI-EAS443:3:93:303:1662#0/1  
a\_a[bba¥XXUM¥`[O[`¥^^^X]`aS^a]TKKY\_a^XUV  
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+HWI-EAS443:3:93:33:1248#0/1  
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AAAAGACGATCAGTAATCCACAATATCAGGTGCAAGATCC  
+HWI-EAS443:3:93:451:448#0/1  
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TGTTCCGGTCCCCATTCCCATTTAGGGCATTGTTGGACAAA  
+HWI-EAS443:3:93:462:91#0/1  
``\_\_\_\_\_N]`P^¥\_Z\_S[\_U[H^U`YNV¥^WT^¥V¥UUBB  
@HWI-EAS443:3:93:671:1304#0/1  
ATATTTGCTGCAATGACGAGAGGATCACTTGAATCGCTGC  
+HWI-EAS443:3:93:671:1304#0/1  
V`bbaaabaabaaaa\_ab\_`¥a\_a`a`^a`aaaa`^]`a

@HWI-EAS443:3:93:677:311#0/1  
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+HWI-EAS443:3:93:677:311#0/1  
aab]V[b]aXZV`V^T¥aa¥^^a\_]UPT¥[[[¥¥RT¥[[[  
@HWI-EAS443:3:93:777:425#0/1  
GATCCCAATGATATTTGCTGCAATGACGAGAGGATCACTT  
+HWI-EAS443:3:93:777:425#0/1  
aa`\_S\_a^`a`a`\_]YUZ`a\_\_`VY¥SX[]a\_X\_S^Y\_\_  
@HWI-EAS443:3:93:868:406#0/1  
GGATTACTGATCGTCTTTTTTTCAAATGTATTTATCGTCG  
+HWI-EAS443:3:93:868:406#0/1  
aaa`aa``aaaa\_aaaaaabaaa\_\_\_a^`a`a`\_`¥` [¥`  
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+HWI-EAS443:3:93:877:1448#0/1  
^ZT\_aa]VWQ`bababbaTaaa^¥]a¥^b[aa``^PZZL\_  
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+HWI-EAS443:3:93:883:987#0/1  
a`\_]`baaababaaaaaaaaaaaaa`^aa`^^X¥]^`X`\_  
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+HWI-EAS443:3:93:902:249#0/1  
abb\_aabbb`bb` [ `bab` `a\_b`a`UZ\_aa\_aa^^]^TY  
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+HWI-EAS443:3:93:904:164#0/1  
`^b^U¥a\_a¥^¥VXba\_MY\_aaa]¥P¥YULQV]U^]N]BB  
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GTGACCACAGAAGCTGCTTTTGGTCTAGTGTGTGCCACTT  
+HWI-EAS443:3:94:1001:428#0/1  
OT\_`aPV[`XR^`^aVZTMOOR¥L]^`¥OX`¥G\_QX¥GZ]  
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CAGCAATCTGTTCAAGTGGCACACACTAGACCAAAAGC  
+HWI-EAS443:3:94:1034:258#0/1  
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AAAAAAGACGATCAGTAATCCACAATATCAGGTGCAAGA  
+HWI-EAS443:3:94:1137:1816#0/1  
abbababaaaa^IX]R0[^U^a`S\_``^LSNN[T[QX]¥\_  
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AAAGACAAGACCAATCTTGTACCTCTGACTAAGGGAATT  
+HWI-EAS443:3:94:1180:273#0/1  
a\_aa`aaaaa`a`a¥`aa\_]a\_X`U`Y` [\_\_\_\_a\_^]^\_\_  
@HWI-EAS443:3:94:1190:371#0/1  
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+HWI-EAS443:3:94:1190:371#0/1  
ababbaaa\_U`ab\_bb\_aaa[``aa\_aa`G^aaa^¥aZ^X  
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+HWI-EAS443:3:94:1374:1730#0/1  
a\_]b`a\_a\_¥aaaW\_]a^\_\_a]Y\_\_\_RS\_X\_]\_RV\_\_\_\_\_0  
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+HWI-EAS443:3:94:1380:1151#0/1  
Y¥bb¥ab`¥abaaVabbaabbababaa^babaUWa\_aaa]  
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+HWI-EAS443:3:94:139:361#0/1  
aa^`aaaaaa\_`aaaaaa\_\_a[a\_`\_`\_`a\_a`\_`\_`a\_aY\_Y  
@HWI-EAS443:3:94:1455:1809#0/1  
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+HWI-EAS443:3:94:1455:1809#0/1  
abb`bbaab\_bbab\_]b\_Ha`abb[\_V[b`]Jaa^b)`aY  
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+HWI-EAS443:3:94:1469:354#0/1  
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+HWI-EAS443:3:94:1485:455#0/1  
\_V`SN]`]OTYXQJQQY¥^^LFL¥VXHK`]WNY[PPROGV  
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+HWI-EAS443:3:94:1541:466#0/1  
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+HWI-EAS443:3:94:1557:1515#0/1  
Q\_bba\_b`\_RZa^\_¥^a``aba¥`ba^^`bbaba¥^[aP\_  
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+HWI-EAS443:3:94:1560:1402#0/1  
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+HWI-EAS443:3:94:1588:768#0/1  
a\_ZS\_^]YXZ[\_^b`^V`aHX[W\_^[\_P]YQ^``YIP]S^  
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+HWI-EAS443:3:94:1600:1245#0/1  
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+HWI-EAS443:3:94:229:52#0/1  
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@HWI-EAS443:3:94:24:542#0/1  
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+HWI-EAS443:3:94:24:542#0/1  
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\_X\_ababa`]]`[a^WH¥X[YV0[ZOY]\_]\_]V`]YL^^`  
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+HWI-EAS443:3:94:421:424#0/1  
aaaa`aa`a`aaaa`aa`[]a^a`[\`a\_`a\_aaaa\_]\_\_Y  
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+HWI-EAS443:3:94:472:1371#0/1  
a\_WR`^a``aaa\_Z\_ab`ba`a\_aZZ^b`¥\_aaaaaa\_¥\_  
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+HWI-EAS443:3:94:587:97#0/1  
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+HWI-EAS443:3:94:84:1402#0/1  
aaa`aa^bbba^aaaa\_a\_a\_]\_a\_\_¥a`\_`¥]`\_dW¥¥  
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+HWI-EAS443:3:94:891:1204#0/1  
`\_\_Z`¥]][\`¥HUL¥ba¥^aa¥SZ]][\_a\_\_¥`^P[U`^VY  
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TGCCACTTGTGAACAGATTGCTGATTCACAGCATCGGTCT  
+HWI-EAS443:3:94:901:158#0/1  
aaa\_a\_aaa\_aa`Z`a```\_`aa\_\_`^`^^\_]\_\_¥\_\_TV]  
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@HWI-EAS443:3:95:1046:458#0/1  
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+HWI-EAS443:3:95:1046:458#0/1  
aaaba]a]^a\_a\_V]`¥XaaU\_a`N`Y`WXaXQ`a[\`\_Q  
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+HWI-EAS443:3:95:1427:1615#0/1  
aab\_a\_\_aaaaX^a^baa`\_`a`baaab]baaaa\_a]`\_  
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+HWI-EAS443:3:95:1585:1614#0/1  
ab`b]^\_ab^bb``baabWaaaa\_a\_aa\_\_\_aP\_aa`a`a  
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+HWI-EAS443:3:95:211:521#0/1  
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@HWI-EAS443:3:95:278:1873#0/1  
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+HWI-EAS443:3:95:278:1873#0/1  
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+HWI-EAS443:3:95:27:1158#0/1  
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+HWI-EAS443:3:95:289:1883#0/1  
a\_a^V]]a\_aaa^\_ZXTa\_\_aaa^\_a\_¥SDT`]^`^`^¥Y  
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CAGACTAGGCAGATGGTACATGCAATGAGAACTATTGGGA  
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+HWI-EAS443:3:95:406:19#0/1  
Yaaba^aabb\_bbbbbbaaaabbbWa¥^a\_W^X`b\_b\_\_\_a  
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@HWI-EAS443:3:95:703:466#0/1  
CGTATTTAAAGCGACGATAAATACATTTGAAAAAAGACG  
+HWI-EAS443:3:95:703:466#0/1  
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TGATCGTCTTTTTTCAAATGTATTTATCGTCGCTTTAAA  
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+HWI-EAS443:3:95:972:423#0/1  
aaSXaaaaabaa^a`\_aa\_[\_`^a`^aa]a\_^a`\_¥^^¥  
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TGCACCTGATATTGTGGATTACTGATCGTCTTTTTTTCAA  
+HWI-EAS443:3:95:978:426#0/1  
^`a`Zabababba^bb`aaa\_\_aa\_\_aa`\_`aaabbaSa`  
@HWI-EAS443:3:96:1053:1980#0/1  
AGCGACGATAAATACATTTGAAAAAAGACGATCAGTAAT  
+HWI-EAS443:3:96:1053:1980#0/1  
aa[a^aaa\_\_\_\_\_aa`P`\_T[`\_a`\_\_[[`\_`\_]\_^\_Y^^\_  
@HWI-EAS443:3:96:1069:398#0/1  
CTCATATACAACAGGATGGGAACAGTGACCACAGAAGCTG  
+HWI-EAS443:3:96:1069:398#0/1  
a`abaabaabbX\_`b`aaaaZaI`\_`Taa]Z\_Uab\_\_`Raa  
@HWI-EAS443:3:96:113:1798#0/1  
ACTTGAATCGCTGCATCTGCACTCCCATTCGCTTCTGGTA  
+HWI-EAS443:3:96:113:1798#0/1  
a`b\_]`b`\_`a`abb`a^ba`a`X`\_`^`\_\_^`\_`a`[]GU\_  
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+HWI-EAS443:3:96:1182:1022#0/1  
¥abbabb\_ba`abbbZ]aaabbbVa\_bWJ]Yaa\_^aa[J\_  
@HWI-EAS443:3:96:1203:1646#0/1  
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+HWI-EAS443:3:96:1203:1646#0/1  
\_abbab^b\_a`aa]\_`Naa\_a^]\_\_Ra`aa¥\_a[[`OTT]  
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GAGAAATAACGTTCCATGGGGCCAAGGAGGTGTCCTAAG  
+HWI-EAS443:3:96:1264:383#0/1  
aXa\_\_a\_]\_Y\_\_Z\_Z\_W[YYZ\_\_]¥`ZS¥[N^[U^X¥TZa  
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+HWI-EAS443:3:96:1280:642#0/1  
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@HWI-EAS443:3:96:1312:543#0/1  
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+HWI-EAS443:3:96:1312:543#0/1  
a`\_`a^aa[U`]a`a[^]XX]a`\_\_ZaQ`[\_a]\_\_a]\_]  
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+HWI-EAS443:3:96:1337:973#0/1  
aVvb\_¥¥VbbbU0]^P¥^XWXVT`a^YSZ\_a]0¥[[[\_`]  
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+HWI-EAS443:3:96:1368:1256#0/1  
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+HWI-EAS443:3:96:338:1327#0/1  
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+HWI-EAS443:3:96:381:1422#0/1  
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GAACGTTATTTCTCTTTTGAGCTTCTTGTATAGTTTAACT  
+HWI-EAS443:3:96:395:732#0/1  
aY\_Xa¥¥]^aa``¥\_\_`\_aRX[^¥\_^[^P^^¥Y¥\_^]]S]  
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AAATACATTTGAAAAAAGACGATCAGTAATCCACAATAT  
+HWI-EAS443:3:96:488:765#0/1  
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`ba\_[aabbbaa`a\_aaaaaa`aaaa`a\_\_``a\_\_`\_  
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+HWI-EAS443:3:96:632:525#0/1  
aQS^ZTV]U`U\_\_HPa\_W`POVN\_\_`RP^]T^]WU[Y^\_B  
@HWI-EAS443:3:96:646:54#0/1  
TGTGGATTACTGATCGTCTTTTTTTCAAATGTATTTATCG  
+HWI-EAS443:3:96:646:54#0/1  
aa]a`\_aa`\_]\_a\_a^`^````aaa\_W\_\_]\_`Y¥```^^[P\_  
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a``bb`b\_\_a\_\_aaa]]aaa\_bb`X[aaa`a`a^^``aXa  
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aa]]b^PZ`aa^[]\_`[aaH\_Z]N¥```^\_SH]\_QYRV`\_  
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a\_aa`aaabaa]\_aaZ`\_RXY`\_TQU\_\_¥\_¥\_N¥¥\_S\_  
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+HWI-EAS443:3:96:980:1775#0/1  
aa`a`a`\_a`\_`\_¥`\_W`a^[]`\_`\_a`^¥\_]T`¥^YWWY^  
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+HWI-EAS443:3:97:1612:254#0/1  
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aba`bba```a`]ab`\_\_aU`][a¥`Z]\_\_]a][\_`aN`\_  
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aaa`aaaa`Y)`a``aa\_\_aZaaa`a\_Z``^W^a`^`S\_\_  
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@HWI-EAS443:3:97:791:617#0/1  
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Xabbbab¥ab[b`\_\_bbb^[\_Y\_a[`[a```\_Yaa]\_U`¥a  
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+HWI-EAS443:3:98:1073:1427#0/1  
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+HWI-EAS443:3:98:1349:817#0/1  
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a`Qa]^[^RYXaYX\_Y\_Y\_UaV]V``YX]\_X¥a[^VX¥¥^  
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`^U`¥^a`Z^bbb`Y^aa^a^b`ab¥a`T```¥``¥a`a\_  
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^\_Ywa¥Q]VQ[a]V¥aa)`TY¥[YY]^¥`Vaaa^¥NVZ^  
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a`\_a]^`\_\_`a`aa`a^[Uba\_^aaZ`a[\_¥G``YLTX¥^  
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+HWI-EAS443:3:98:456:776#0/1  
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+HWI-EAS443:3:98:660:345#0/1  
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a^PT¥X^aa`\_aaa`\_aaa\_VW\_[^\_Z\_¥\_]¥\_S¥]¥WU¥  
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+HWI-EAS443:3:99:376:1607#0/1  
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+HWI-EAS443:3:99:393:160#0/1  
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+HWI-EAS443:3:99:48:926#0/1  
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+HWI-EAS443:3:99:505:1020#0/1  
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+HWI-EAS443:3:99:59:1780#0/1  
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+HWI-EAS443:3:99:746:543#0/1  
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+HWI-EAS443:3:99:944:451#0/1  
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]baZ^b`b`abb`bababbabbbI`bbbab`\_Za[Y¥a  
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+HWI-EAS443:3:9:1136:249#0/1  
\_bba`baaaaaab\_\_abbbbaaab`ababbaaa\_aa`a`  
@HWI-EAS443:3:9:1223:574#0/1  
TGTGAATCAGCAATCTGTTCAAGTGGCACACACTAGAC  
+HWI-EAS443:3:9:1223:574#0/1  
aa¥b\_\_\_\_\_baYbaaaaab[]\_`\_a¥aWaaTa\_]Z^a¥\_\_\_Z

@HWI-EAS443:3:9:1404:1820#0/1  
ATCCTCTCGTCATTGCAGCAAATATCATTGGGATCTTGCA  
+HWI-EAS443:3:9:1404:1820#0/1  
a`\_aaZa\_aYI`aa`\_`¥^`^a^`Z\_^¥Y^\_XZO\_¥^X]  
@HWI-EAS443:3:9:1438:956#0/1  
CTCGTCATTGCAGCAAATATCATTGGGATCTTGACCTGA  
+HWI-EAS443:3:9:1438:956#0/1  
`bababbabaaababaabab]aaa^`aaa`aaa\_^SZaa\_  
@HWI-EAS443:3:9:1515:1250#0/1  
GGAGGTTGCTAATCAGACTAGGCAGATGGTACATGCAATG  
+HWI-EAS443:3:9:1515:1250#0/1  
aa`aa¥Y]`[\_`W]`\_U`Z`\_U[`Q[¥aVVM]]`]]]`\_`  
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+HWI-EAS443:3:9:1621:801#0/1  
ababbbbbbV\_RR^ba^bb^bSa]ab^`Waa^ZV]\_]\_a\_  
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+HWI-EAS443:3:9:213:434#0/1  
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+HWI-EAS443:3:9:341:855#0/1  
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+HWI-EAS443:3:9:461:259#0/1  
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+HWI-EAS443:3:9:50:2026#0/1  
a\_]`[[a`^a`a`\_`^]Za`^]`^`a]`^`^`^`[Y^TFTZ]  
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+HWI-EAS443:3:9:531:344#0/1  
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ACCTGATATTGTGGATTACTGATCGTCTTTTTTTCAAATG  
+HWI-EAS443:3:9:651:26#0/1  
Y`b`^^b]bbPaV`\_aa\_Waa`]aX]a\_``a``W\_U^\_a  
@HWI-EAS443:3:9:65:557#0/1  
TCAGACTAGGCAGATGGTACATGCAATGAGAACTATTGGG  
+HWI-EAS443:3:9:65:557#0/1  
a`][aa\_aa`a\_a\_```F¥a```\_`a\_````R]]`^]\_\_\_\_  
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+HWI-EAS443:3:9:671:757#0/1  
abb^[`baabYabaaaaab^\_a````\_`^`a\_\_`Wa`\_¥^  
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+HWI-EAS443:3:9:719:1995#0/1  
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ACTGGAGCTAGGATGAGTCCCAATAGTTCTCATTGCATGT  
+HWI-EAS443:3:9:723:170#0/1  
aaabaaa\_aaaa\_`a`][W\_\_`\_^^X\_`^`^\_`V\_`^]]X  
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+HWI-EAS443:3:9:997:1040#0/1  
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@HWI-EAS443:3:62:234:1739#0/1  
AACACCATTGCCGATTTGAATGAAAATCCTTTACTCCAT  
+HWI-EAS443:3:62:234:1739#0/1  
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+HWI-EAS443:3:43:399:1617#0/1  
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+HWI-EAS443:3:4:738:1490#0/1  
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+HWI-EAS443:3:10:790:1965#0/1  
\_¥]a^ba\_a\_¥FXZW[^X`[S¥]]¥HWYO]RXSSMWDV[  
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+HWI-EAS443:3:37:366:201#0/1  
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+HWI-EAS443:3:67:1458:1981#0/1  
OaOY\_`\_X`W^Vaa¥a`NO]¥U¥\_a\_dWNZ^XY]VLZPLZ  
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TAATGACCGATGGACCAAGTGATGGACAGGCCTCTACTCA  
+HWI-EAS443:3:20:1142:1223#0/1  
`ba]aaaaa\_`a`¥\_\_aaUa\_\_`\_`¥`^`\_Y\_¥\_\_V`]¥  
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CACTTGGTCCATCGGTCATTACAGTAAAGCAAGATTGTGA  
+HWI-EAS443:3:74:764:809#0/1  
`aa\_aba\_bbbaaba¥`^a\_a`VTX]a`U`a```\_\_Y\_^  
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ACTTGCTTTACTGTAATGACCGATGGACCAAGGGATGGAA  
+HWI-EAS443:3:28:1123:971#0/1  
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@HWI-EAS443:3:77:941:1597#0/1  
GCTTTTTGAATAAATTACTTGTCAATGGTAAATGGCAACT  
+HWI-EAS443:3:77:941:1597#0/1  
a¥TXaa\_\_W^GTa\_dW[\_`P^\_a`aYT[]Y`NW]¥^¥P\_  
@HWI-EAS443:3:89:1459:1585#0/1  
GATTCTTATACTGTTGTCTTTACTGTNTATAGCCNATCCA  
+HWI-EAS443:3:89:1459:1585#0/1  
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@HWI-EAS443:3:32:1150:695#0/1  
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+HWI-EAS443:3:32:1150:695#0/1  
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+HWI-EAS443:3:43:17:1024#0/1  
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+HWI-EAS443:3:61:1555:522#0/1  
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+HWI-EAS443:3:34:1631:601#0/1  
ab¥¥UUba`a`]GW^a[\_Za^a\_0¥WG\_[aUYFOX[BBBB  
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+HWI-EAS443:3:5:71:87#0/1  
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+HWI-EAS443:3:12:430:824#0/1  
¥\_\_\_Za^``¥XZZU]Za¥P[Z¥a¥aBBBBBBBBBBBBBBB  
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GAGTTTTTTGAACAAATTACTTGTCAATGGTAAATGTCAA  
+HWI-EAS443:3:17:1179:567#0/1  
XI\_T¥a^bbb\_¥\_^[`ba`[Z]ZY]S]aZV[ZX\_\_[FM[]  
@HWI-EAS443:3:23:1464:35#0/1  
ATTATCTTTTGGTTTGGATTCATTTTAAACTCCTGCCTTG  
+HWI-EAS443:3:23:1464:35#0/1  
abbb\_abbb`a`^ba`aabb^`aaaaa`a`a^\_\_a\_WW`\_  
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+HWI-EAS443:3:2:607:1638#0/1  
aa]aVaaY[¥a^\_a`a]V\_`\_\_[a`^`¥]\_\_`^\_\_`ZQ  
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+HWI-EAS443:3:43:1524:252#0/1  
a\_ba`\_abbabaa\_\_aaPMQWZVG¥YW\_FL¥P¥VRBBBBB  
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+HWI-EAS443:3:45:1295:1859#0/1  
`O\_NaZ\_\_]¥`XFQ[a^SV`ZFFX]YaS^YFJT\_]GGYLR  
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CCTCGGGCTATATACAGTAAAGACAACAGTATAAGAATCG  
+HWI-EAS443:3:46:1453:1750#0/1  
aaaaaaa`a`\_`^^a^`\_]\_\_\_\_`Y`]Z\_^]]`^^]W^  
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AAGCGATGGACAGGCCTCATACAAGATCTTCAGAATAGAA  
+HWI-EAS443:3:5:1202:1876#0/1  
[\_`MZaa`S`XbaUa^\_`aa\_`aaa\_¥\_aaYaa\_\_^R]XB  
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GGCACTGTCCATCACTTGGTCCATCGGTCATTACAGTAAA  
+HWI-EAS443:3:60:1020:775#0/1  
a^\_aaab[[S]aZW0]`aaW`\_\_\_\_W\_`QS^]¥WNP[NX^]  
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+HWI-EAS443:3:60:525:46#0/1  
``\_`^aa\_`a\_`aVXa``a^`\_\_`aXU^ZMKT]a`[BBBB  
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GACAAACACATCCCCCTTGAACCGATTCTTATACTCTTG  
+HWI-EAS443:3:63:746:2003#0/1  
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+HWI-EAS443:3:64:1220:1557#0/1  
aa`aabaabaaaaa]`\_Xaa\_`a^aa[a^Zaa\_`^^^ZP  
@HWI-EAS443:3:67:23:421#0/1  
AAACTCCTTTTACTCCATTTGCTCCATTAGACGATACTGG  
+HWI-EAS443:3:67:23:421#0/1  
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ATGCGGCCTGTCCATCACTTGGTCCATCGGTCATTACAGT  
+HWI-EAS443:3:81:185:1187#0/1  
ZTZHV^¥\_RXU]P]R\_a`\_]\_a]LX]]U\_^QL]IH¥XXY\_R  
@HWI-EAS443:3:83:880:1039#0/1  
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+HWI-EAS443:3:83:880:1039#0/1  
]V[abVVb]a`¥aabb\_¥¥b]S¥`[b\_V`SZX¥ZIWJT]\_  
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CTTTTATGAGGCCTGTCCATCACTTGGTCCATCGGTCATT  
+HWI-EAS443:3:88:973:1959#0/1  
a[¥Ja[bb]ababUb[baZabbY]¥aa`WF]a^bT]^^^`

@HWI-EAS443:3:9:1315:552#0/1  
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+HWI-EAS443:3:9:1315:552#0/1  
U[RXUYTX\_X\_¥Z\_aZ\_¥FXWL[XMQYZXHnkZVR[[V`\_  
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+HWI-EAS443:3:100:1325:263#0/1  
`QOLRSV¥Xa\_OS¥^U`ZURSRH][^QJP]^\_[HXTXBBB  
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+HWI-EAS443:3:11:1043:985#0/1  
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+HWI-EAS443:3:11:825:947#0/1  
\_\_]^¥aRab`bYa[a`\_\_VZ¥a`V^`aaV`\_UH¥]^ZQX  
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+HWI-EAS443:3:13:508:1989#0/1  
aa`PG¥`M¥^S`^S`^^¥X^U¥^ZHX`U^\_UHT^¥Y]OK[  
@HWI-EAS443:3:18:459:224#0/1  
GGCCTGTCCATCACTTGGCCCATCGGTCATTACAGTAAAG  
+HWI-EAS443:3:18:459:224#0/1  
Z\_V[b\_VX`\_`M``[`aHX``]`¥FWXY[^00[S]R[W  
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+HWI-EAS443:3:1:1427:767#0/1  
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+HWI-EAS443:3:20:1427:518#0/1  
aZ]\_^\_[[^X`]]XOXU`^R¥RUOXX\_]S^VZ]Z^^USVZ  
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+HWI-EAS443:3:29:1222:1341#0/1  
\_`]a\_bbb`\_bb[\_aa\_]Ubabbbbaa`babb[ba`\_`  
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+HWI-EAS443:3:32:1644:1334#0/1  
O`H`abab``bbbaaaXab\_¥OM]XPa[I`aW[^TI]aB  
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+HWI-EAS443:3:37:1384:1046#0/1  
ZK¥Rb[Z¥Y[JYSSP`P`Z[OSMa`XUN`[X^aY`Y\_]`  
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+HWI-EAS443:3:37:327:1655#0/1  
][\_¥a[abbbb\_`aaa^[Wb`^b`]^^[HRZ]a\_RY`a^Z  
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+HWI-EAS443:3:37:737:1786#0/1  
abbbb[aabb`\_ba\_`aaaaab\_`aaaTTaa^a]`Vaa[  
@HWI-EAS443:3:37:787:308#0/1  
ATGAAAATCCCTTTACTCCATTTGCTCCATTAGACGATAC  
+HWI-EAS443:3:37:787:308#0/1  
aaa`aaaaaaaa`aa\_`aaa````a`\_YUTU`\_\_\_a\_]^X  
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TGAAAATCCCTTTACTCCACTTGCTCCATTAGACGATACT  
+HWI-EAS443:3:37:799:1452#0/1  
^b``¥aba`aaaaW`abaaaaT`aaaa[SOY`a\_^^aIR  
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+HWI-EAS443:3:3:994:2001#0/1  
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+HWI-EAS443:3:40:119:539#0/1  
Z]^[]babbababa`\_bb^][a`^VDN^a`Y`a[`]USa  
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+HWI-EAS443:3:42:1286:1678#0/1  
a`^]a`^`T]aa^U^Raa^Y[aaaa^F0^Q`a0G[aLY^X  
@HWI-EAS443:3:46:1519:694#0/1  
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+HWI-EAS443:3:46:1519:694#0/1  
¥\_bbbbbababb\_P\_bb`babaabaabbabaaaaaba[b  
@HWI-EAS443:3:46:326:1855#0/1  
GAGTTTTTTGAACAAATTACTCGTCAATGGTAAATGGCAA  
+HWI-EAS443:3:46:326:1855#0/1  
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+HWI-EAS443:3:49:1574:471#0/1  
a]Y\_^bY\_`\_^\_Z][]^`I]TWY[\_`]QXY^X]\_^\_SS^  
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+HWI-EAS443:3:4:788:2042#0/1  
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@HWI-EAS443:3:54:492:1584#0/1  
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+HWI-EAS443:3:54:492:1584#0/1  
aZa`[bXZ[aTURS\_]¥X`aaRJJ]a]FXXYR]^XVMW\_Z

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+HWI-EAS443:3:57:1663:1057#0/1  
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@HWI-EAS443:3:59:262:1945#0/1  
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+HWI-EAS443:3:59:262:1945#0/1  
a\_aSaaa`\_Za\_JWaa`^^Xa\_^Za¥\_\_a\_\_R¥\_ORWOIN  
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+HWI-EAS443:3:60:1322:1948#0/1  
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+HWI-EAS443:3:60:1675:1235#0/1  
X`baP`bb^a^b^^^XS`¥QY`]SSU[XHXWX[ZUOS[``  
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TGGGCTATATACAGTAAAGACAACAGTATAGGAATCGGTT  
+HWI-EAS443:3:60:489:805#0/1  
aa]¥aaa¥I]b]W]^aaY``aaa\_aa¥a`\_`a^\_```aX]  
@HWI-EAS443:3:65:1399:1284#0/1  
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+HWI-EAS443:3:65:1399:1284#0/1  
Ya¥`b\_bbbbb`]bbbabaa]DW`bbba``abaa`aS^¥  
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+HWI-EAS443:3:65:653:781#0/1  
a`¥Z]`\_`\_````\_\_\_\_\_````]]YYQ[S]Z\_\_\_TVY[XYT  
@HWI-EAS443:3:6:1104:310#0/1  
GTTTTTTGAACAAATTACTTGACAATGGTAAATGGCAACT  
+HWI-EAS443:3:6:1104:310#0/1  
^[]^a`]SYaX\_\_aY[\_YZY]GNX]^XX¥XXT^^]BBBB  
@HWI-EAS443:3:73:1180:1229#0/1  
GGAGTTTTTTGAACAAATTACTTGCAATGGCAAATGGCA  
+HWI-EAS443:3:73:1180:1229#0/1  
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@HWI-EAS443:3:73:43:937#0/1  
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+HWI-EAS443:3:73:43:937#0/1  
abbbYV^\_aa\_Z``YJXZ``a``a¥TZ^`aa`Y\_\_`\_\_a\_  
@HWI-EAS443:3:75:1007:75#0/1  
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+HWI-EAS443:3:75:1007:75#0/1  
a\_a`a\_\_aaa\_`\_`X^a`a]a`\_YY`^`]XY^`\_]a]WY[  
@HWI-EAS443:3:75:1055:141#0/1  
ATTCTGAATATCTTGTATGAGGCCTGTCCATCACTTGGTC

+HWI-EAS443:3:75:1055:141#0/1  
¥\_¥`aXbbba`aYZa\_\_`baa¥aaa`aa^`]a¥\_VZ`  
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+HWI-EAS443:3:75:370:16#0/1  
ab`\_a\_aababaaaa]`aaaaa]`aaaa\_`\_F\_a\_\_a\_\_  
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GAACAAATTACTTGTCAATGGGAAATGGCAACTCAGCACC  
+HWI-EAS443:3:76:668:126#0/1  
aaaU]abaab`a]bX\_`YaaaHY```aa¥^`\_`¥^`0^UO  
@HWI-EAS443:3:77:358:1422#0/1  
GGTCCAGTATCGTCTAATGGAACAAATGGAGTAAAAGGAT  
+HWI-EAS443:3:77:358:1422#0/1  
Xb`bbbb[\_\_\_aaTba^]a]YU^]VRaa`aTaS\_aaaa`[^  
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CTTGAATGAGGCCTGTCCATCACTTGGTCCATCGGTCATT  
+HWI-EAS443:3:78:408:1902#0/1  
aaa^0]¥]¥MY\_]\_^P`]X]aa^\_]¥WW`^¥]`^SQ]\_¥Z  
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+HWI-EAS443:3:79:805:1901#0/1  
aV\_\_¥aYWQ^`\_RNW^\_Z\_HX\_[YOFI¥\_\_XQ\_YTR[G YW  
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+HWI-EAS443:3:80:1144:1356#0/1  
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@HWI-EAS443:3:80:1555:483#0/1  
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+HWI-EAS443:3:80:1555:483#0/1  
^^ab`bb\_I`b`H`Zabbbb`aU\_]bb`Saaaa`Z\_  
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+HWI-EAS443:3:80:996:1635#0/1  
ab^`aaaaabaababaaaa¥aa`aa\_^]a[aa\_a[\_[a` [  
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+HWI-EAS443:3:82:1068:809#0/1  
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CAACAGTATAAGAATCGGTTCCAAGGGGATGTGTATGTC  
+HWI-EAS443:3:82:1196:1603#0/1  
abbaaa`bbbbbbbaa`a[^]^\_a¥[\_`a]\_\_SaYS^\_]V  
@HWI-EAS443:3:82:638:353#0/1  
GGAGTTTTTTGAACAAATTACTTGTCAATGGGAAATGGCA  
+HWI-EAS443:3:82:638:353#0/1  
aaaa\_¥\_aa[X\_`Q\_Y\_¥G¥\_]`¥]\_]J^\_G^UZT]YYT  
@HWI-EAS443:3:83:1206:1774#0/1  
GTCCAGTATCGTCTAATGGAGCAAATGGAGGAAAAGGATT  
+HWI-EAS443:3:83:1206:1774#0/1  
a\_\_PZ\_V[\_W\_VV]\_`[\_O\_\_^S^\_^\_UUFW^`a¥]]Z]

@HWI-EAS443:3:84:732:57#0/1  
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+HWI-EAS443:3:84:732:57#0/1  
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@HWI-EAS443:3:84:767:1301#0/1  
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+HWI-EAS443:3:84:767:1301#0/1  
a[aaaa]a\_aa^`a`\_`^`\_\_\_\_`aaa]aZ`aaaa^Y\_`  
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+HWI-EAS443:3:87:1352:1596#0/1  
XbMYWVaZG\_Y]\_`a\_a]Ra\_\_]\_]¥FMW¥W`YGY\_¥\_Q  
@HWI-EAS443:3:88:1641:151#0/1  
TGCTTTACTGTAATGACCGATGGACGAAGTGATGGACAGG  
+HWI-EAS443:3:88:1641:151#0/1  
^`ZXbbaSW`^V^JXR\_aa[Z^[ZTFL^a]aXbU]]V\_`a  
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+HWI-EAS443:3:99:1519:1671#0/1  
a\_bb¥¥abb\_b`aababaabb\_baba\_Ybb\_\_aa`ba`  
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+HWI-EAS443:3:99:937:1862#0/1  
¥ba`^)`W\_`aYZ[IW^`aaaaRR¥VJX`\_^FJ]aS^Xa  
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+HWI-EAS443:3:10:1541:630#0/1  
a`\_a]\_a\_a`a][YZ¥\_\_]¥Y¥Z\_ZS]W^]WZXXUZVWVW  
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+HWI-EAS443:3:10:1720:770#0/1  
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+HWI-EAS443:3:25:616:77#0/1  
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+HWI-EAS443:3:26:1115:978#0/1  
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+HWI-EAS443:3:34:1357:237#0/1  
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+HWI-EAS443:3:37:447:150#0/1  
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+HWI-EAS443:3:38:760:1329#0/1  
a\_WS[aY\_X¥]`¥^`[T¥YY]TTKY^W]ZVGWVZ]WWS  
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+HWI-EAS443:3:39:1740:487#0/1  
a``aUSaa]W^``\_RP\_T]GTa]`^Q[\_\_VV[^^P¥PDI  
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+HWI-EAS443:3:39:893:1425#0/1  
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\_`bXS\_\_¥a¥ZabZaaa`ZTUYYW][MJa`\_^\_\_X\_[BBB  
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abb¥^^¥Y\_WXZVWYXOS\_`bNWWaa^XQaa`RQNYOFVZ  
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+HWI-EAS443:3:71:737:1642#0/1  
aaaab]V\_¥^\_\_\_¥FZV¥¥Z`^a\_]S]``\_W^]XLY]FT  
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+HWI-EAS443:3:87:991:109#0/1  
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+HWI-EAS443:3:92:1326:1087#0/1  
a\_aaWY[\_Y^aa`ZSaUXa¥¥YS^^Yaa]XX]Y[\_ZLF[\_  
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aabb[aab]b]YD^Y[`¥aaa`aa\_aa\_\_aa\_\_\_^`a\_a  
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+HWI-EAS443:3:20:1501:697#0/1  
^]aY`aa``\_a`^a``a``[\_Q]\_a`a`¥`U``\_[D[¥[]  
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GCCTGTCCATCACTTGNTCCATCGGTTCATTACAGTAAAGC  
+HWI-EAS443:3:21:313:158#0/1  
ababb`aa`aaa\_aa[DXa```aa\_Z``\_^ZW\_^^``¥¥



@HWI-EAS443:3:21:506:1261#0/1  
GGAGTTTTTTGAACAAANTACTTGTCAATGGTAAATGGCA  
+HWI-EAS443:3:21:506:1261#0/1  
X`Y`]\_U¥aaQ\_X]a\_WDY¥`¥RXRJ`VX]a¥a`\_UZUVZ  
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+HWI-EAS443:3:23:906:538#0/1  
aaaaaa^aaUa`\_a\_aa`\_\_`\_\_`X^`\_a^¥^\_U¥TDRQR  
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+HWI-EAS443:3:29:1647:471#0/1  
a^]U]aaaa`\_a[a`\_b\_a^]D]`VWO¥aXWaaa`\_XBBB  
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+HWI-EAS443:3:34:1223:1275#0/1  
`aab`abbba¥\_Y`^aa\_aaa]b]`\_a]DY`¥`\_`¥¥`\_]  
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+HWI-EAS443:3:63:1224:1593#0/1  
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a]RYT`] ^aaVT\_^]]]aX`\_`¥¥`\_Z^ZDN[\_\_XZZX\_  
@HWI-EAS443:3:73:1253:1674#0/1  
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+HWI-EAS443:3:73:1253:1674#0/1  
a`aaaaa[D¥a`a^aa`\_`^\_a`aa^\_\_^a`\_`¥W\_[\_\_  
@HWI-EAS443:3:82:1451:223#0/1  
AGTTTTTTGAACNAATTACTTGTCAATGGTAAATGGCAAC  
+HWI-EAS443:3:82:1451:223#0/1  
ab\_\_aaaaaN\_RD[bba^^aab\_\_^aaa`]aabaORXa`G  
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+HWI-EAS443:3:93:1178:285#0/1  
a\_\_a\_aa`\_aaa`^ab^`a`\_aaa^W\_a]^\_XDT]ZSXZ^  
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+HWI-EAS443:3:94:1613:1789#0/1  
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+HWI-EAS443:3:95:1588:1038#0/1  
abbaaabbbbababPD[baa¥ba`abbaa\_\_b`a`Xaa\_^R  
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+HWI-EAS443:3:99:926:1314#0/1  
¥^ab[D]`bb^abaa`baaa`abbaaZabb¥^aX]SaRIB  
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+HWI-EAS443:3:100:616:558#0/1  
^D]ab\_\_bbaaaa\_\_aaaa`aa\_a\_¥[a^`¥Y\_\_\_`a\_  
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+HWI-EAS443:3:33:453:1793#0/1  
^[GZ`¥¥aa\_WZa`YaaZaVY^\_\_aZTS\_]\_aRMRYWRUR  
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+HWI-EAS443:3:39:1041:686#0/1  
UDYbbbbbbbaaa]`aaY[a¥\_^\_P¥^R¥[¥\_^¥UX¥`VO  
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TGAAAGGATTTTCATTCAAATACGGCAATGGTGTGGAT  
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aYXY¥`aZU\_\_^[\_^^S\_¥^]X^`XSVXY\_UWTI\_[Z][U  
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+HWI-EAS443:3:72:761:941#0/1  
a`a`\_aa\_aa`a\_\_`Z^a`\_^^^\_]a`\_¥\_Y\_^[\_`\_\_]\_  
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+HWI-EAS443:3:7:561:551#0/1  
Xbbaabaaab`a`a`aa\_a\_aaa\_a`^\_aa^a\_`a`\_`RZ  
@HWI-EAS443:3:92:1451:291#0/1  
TGGGCTATATACAGTAAAGACAACAGTATAAGAATCGGGT  
+HWI-EAS443:3:92:1451:291#0/1  
¥\_a¥S]b`]a¥aba\_a]]`I¥aN¥bI`]`\_aaV`^^VFI  
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+HWI-EAS443:3:12:990:22#0/1  
abbaaabab`a`ab\_a\_ab```a`a]`aa\_`\_`aU\_aVU  
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+HWI-EAS443:3:16:1746:1737#0/1  
ab]^Y^Ya\_aa\_K\_\_Ya\_NRQ`W\_WS^a```\_aZDV]BBB  
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TGGCCTGTCCATCACTTGGTCCATCGGTCATTACAGTAAA  
+HWI-EAS443:3:18:1665:638#0/1  
a\_VVYabY\_Y\_a\_\_Z\_\_`a^¥X`^^\_\_UTXX^¥VYXTQ][  
@HWI-EAS443:3:1:1158:654#0/1  
CTGCCGATTTTGAATGAAAATCCTTTTACTCCATTTGCTC  
+HWI-EAS443:3:1:1158:654#0/1  
abbbab[^bbba^`ba]`\_\_aHQZb^¥\_]^^^`b]`a`aS

@HWI-EAS443:3:20:1034:242#0/1  
NAAGGATTTTCATTCAAATACGGCAATGGTGTGGATAG  
+HWI-EAS443:3:20:1034:242#0/1  
DO[Y[[Y[[Y[[Y[[[[Z[[Y[[[[[[[[Z[[Y[[[[YU[[[W  
@HWI-EAS443:3:21:1041:1451#0/1  
GTATAAGAATCGGTTCCAAGGGGGATGTGTTTGCATAAA  
+HWI-EAS443:3:21:1041:1451#0/1  
aQaaaaaba^a`]YX]]^]]\_`^Z¥MTY[Z\_]YGLMTQF  
@HWI-EAS443:3:23:75:320#0/1  
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+HWI-EAS443:3:23:75:320#0/1  
`aab¥aU]aV[a\_`SZ^\_0`^`W\_\_Z0^\_V^SYTTQWT\_0  
@HWI-EAS443:3:29:793:24#0/1  
AGGGCTATATACAGTAAAGACAACAGTATAAGAATCGGTT  
+HWI-EAS443:3:29:793:24#0/1  
aaba\_a`¥aa``\_aU`\_`aa^a\_V`aY^\_^^]^^]^^BB  
@HWI-EAS443:3:2:1488:1087#0/1  
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+HWI-EAS443:3:2:1488:1087#0/1  
aUVaa)`aa]N\_Q^G]Qa¥WL¥\_]\_]PZURBBBBBBBBBB  
@HWI-EAS443:3:31:1042:1069#0/1  
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+HWI-EAS443:3:31:1042:1069#0/1  
ababbbabaaaa`a\_aabaaaab\_aa^aa\_a`a`a`\_`V]  
@HWI-EAS443:3:31:29:1944#0/1  
ATGGGCTATATACAGTAAAGACAACAGTATAAGAATCGGG  
+HWI-EAS443:3:31:29:1944#0/1  
a\_a\_\_b`a\_a^)`a\_W\_[`\_\_```YVSO[QR^ZZ]PBBBB  
@HWI-EAS443:3:38:1040:1219#0/1  
GGGCTATATACAGTAAAGACAACAGTATAAGAATCGGTTA  
+HWI-EAS443:3:38:1040:1219#0/1  
a\_]baaaaba`Ya^`]aa^Uaaaaa^)]`[T¥]¥R[ZVKD  
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GGGCTATATACAGTAAAGACAACAGTATAAGAATCGGTTG  
+HWI-EAS443:3:38:1715:76#0/1  
``a¥U]a¥b\_\_^\_T\_[T\_`)]`YT¥^W[^ZRQWWWVWQOD  
@HWI-EAS443:3:39:675:1025#0/1  
CGCCGATTTGAATGAAAATCCTTTTACTCCATTTGCTCC  
+HWI-EAS443:3:39:675:1025#0/1  
a^b`XU¥aa`a\_^\_ZZX\_^^^a^`\_^\_`^\_\_\_\_^\_^^Q  
@HWI-EAS443:3:40:847:1162#0/1  
AGACCGATGGACCAAGTGATGGACAGGCCTCATACAAGAT  
+HWI-EAS443:3:40:847:1162#0/1  
`¥`````]a\_\_[[`[Y\_^\_`^Z^`^V`a^]\_\_\_\_\_ZP]\_\_\_  
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CGCCGATTTGAATGAAAATCCTTTTACTCCATTTGCTCC  
+HWI-EAS443:3:40:955:441#0/1  
X`U^ba^ba\_\_^b\_aV]^abab]b^Vb\_b\_R`\_[\_bXa[  
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+HWI-EAS443:3:49:625:901#0/1  
aa\_abb^bbaabaaaabbbbbaaaa`b`ba\_baaaa`YTZ  
@HWI-EAS443:3:53:124:1097#0/1  
GGAGGCCTGTCCATCACTTGGTCCATCGGTCATTACAGTA  
+HWI-EAS443:3:53:124:1097#0/1  
`aaaaaa\_b\_a`^P¥]aa\_N\_aS]]`\_N^X\_X\_]\_R\_  
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GGGGCTATATACAGTAAAGACAACAGTATAAGAATCGGTT  
+HWI-EAS443:3:53:1382:371#0/1  
`¥[\_`\_aabab\_GU¥^`\_]\_Za`a^¥^^\_a^a[]`\_]X[^W  
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CGGCTATATACAGTAAAGACAACAGTATAAGAATCGGTTC  
+HWI-EAS443:3:54:527:755#0/1  
a`]ba]bZ]0][^]aa^a¥R]^\_TWKY``^TT]¥P[WRVY  
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+HWI-EAS443:3:58:354:920#0/1  
aaaabbbba¥a\_aa`^a\_aaa`aa``¥a`\_`\_`¥]]OU  
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CGTCCATCACTTGGTCCATCGGTCATTACAGTAAAGCAAG  
+HWI-EAS443:3:58:916:620#0/1  
Y\_a``b`YV\_WUYW\_UaZaTJ[¥aa`^¥^a]JQ]a\_T\_]`  
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AGACCGATGGACCAAGTGATGGACAGGCCTCATACAAGAT  
+HWI-EAS443:3:63:433:1456#0/1  
][abbaa`]YaaZV¥¥FR`\_[\_\_\_\_]SW]S¥^\_\_^`]^ [UU  
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NAAAATCCTTTTACTCCATTTGCTCCATTAGACGATACTG  
+HWI-EAS443:3:68:1431:342#0/1  
DMWZZXXZXYYXXPUVYXXXOXUGUZZZZNNMUWZXZX  
@HWI-EAS443:3:6:1457:1804#0/1  
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+HWI-EAS443:3:6:1457:1804#0/1  
J\_a]bbaa`\_a[]]aaa¥Xbbb]a`b]E]abaa\_G\_bZ[  
@HWI-EAS443:3:71:235:1918#0/1  
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+HWI-EAS443:3:71:235:1918#0/1  
a]b[Z^baWSVb]abba`]¥]Z`aba`\_[a`aaa`a¥\_a  
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AAAATCCTTTTACTCCATTTGCTCCATTAGACGATACTGT  
+HWI-EAS443:3:74:1329:375#0/1  
X`aa^\_^\_b\_a`[^`^bbbbbbaa\_[`bbb\_`[^baaW^XF  
@HWI-EAS443:3:74:630:241#0/1  
AGCCTGTCCATCACTTGGTCCATCGGTCATTACAGTAAAG  
+HWI-EAS443:3:74:630:241#0/1  
aa\_a\_¥]`aaa`aaa\_\_¥UW^FY``\_[ZX\_ZSM\_ZX^^]T  
@HWI-EAS443:3:77:331:183#0/1  
AGTTTTTTGAACAAATTACTTGTCAATGGTAAATGGCAAA  
+HWI-EAS443:3:77:331:183#0/1  
R\_N\_baW`a^b^babbba]`bb\_]bbbb¥[bY`abb`aaG

@HWI-EAS443:3:92:748:34#0/1  
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+HWI-EAS443:3:92:748:34#0/1  
V\_HU`¥¥¥`a`R\_a]^^[Sa\_baUIQ`a^XaZG]`\_GPYB  
@HWI-EAS443:3:96:728:1522#0/1  
CGCCTGTCCATCACTTGGTCCATCGGTCATTACAGTAAAG  
+HWI-EAS443:3:96:728:1522#0/1  
¥¥aba[`^]\_HX\_Va]^Z\_0^X0\_\_WQYU\_^\_]a\_Y]]X¥  
@HWI-EAS443:3:100:1018:1235#0/1  
ATGGGCTATATACAGTAAAGACAACAGTATAAGAATCGGT  
+HWI-EAS443:3:100:1018:1235#0/1  
aab\_a\_aaa\_a\_\_\_a^\_aaa`\_\_aS\_\_\_`a\_\_`^\_^]`BB  
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+HWI-EAS443:3:100:1063:1165#0/1  
a]Z]aaS\_\_W\_VX\_^a\_X^XYXZP^\_^PUa0^]]a]^BBB  
@HWI-EAS443:3:100:648:277#0/1  
AGTTTTTTGAACAAATTACTTGTCAATGGTAAATGGCAAC  
+HWI-EAS443:3:100:648:277#0/1  
^^Zaaba```a[^aaba\_a\_ba]¥W``a¥¥P[\_\_\_\_`]\_\_B  
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GAGTTTTTTGAACAAATTACTTGTCAATGGTAAATGGCAA  
+HWI-EAS443:3:100:859:464#0/1  
a\_a^a`aaba`a]``aaaa\_a`a\_^\_\_`a\_Z^\_\_\_\_^^^\_a  
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GGAGTTTTTTGAACAAATTACTTGTCAATGGTAAATGGCA  
+HWI-EAS443:3:100:982:1948#0/1  
`babUa¥bbaaa]Sb`aa\_a^`aba\_a\_\_a`]a`\_``]Pb  
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+HWI-EAS443:3:10:1068:1021#0/1  
``\_\_`^a`¥Y]]^X^^^\_\_^\_\_Z\_YU^^[V¥Z]UXUZUTF  
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ATGACAAACACATCCCCCTTGAACCGATTCTTATACTGT  
+HWI-EAS443:3:10:1093:777#0/1  
^aa¥\_aYabaaaaa`Y]\_a]Y`a^\_a]a\_¥`\_\_\_\_X`\_`  
@HWI-EAS443:3:10:1167:1442#0/1  
TGAAAATCCTTTTACTCCATTTGCTCCATTAGACGATACT  
+HWI-EAS443:3:10:1167:1442#0/1  
`aaYaa`ZUZ¥\_\_aYaIRaY\_¥`]X[\_¥YSW`TRMY^ZOW  
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TTTTGAACAAATTACTTGTCAATGGTAAATGGCAACTCAG  
+HWI-EAS443:3:10:210:1226#0/1  
Ya^^bb`baaaabaabbaVbab`bb^\_abaa`aa`aaaa`  
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AAAGGATTTTCATTCAAATACGGCAATGGTGTGGATAG

+HWI-EAS443:3:10:353:612#0/1  
]`bb^`bbba]b`aab]aa`aaa[``]`Q`SaaaaY[`\_  
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ACACCATTGCCGATTTGAATGAAAATCCTTTACTCCAT  
+HWI-EAS443:3:10:489:1333#0/1  
\_QZ¥ZZYaTU\_W`YZU``Y¥\_`^TN[YV[]S[X¥[V[YOW  
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TGAGGCCTGTCCATCACTTGGTCCATCGGTCATTACAGTA  
+HWI-EAS443:3:10:593:1043#0/1  
[aaTUa\_aU`baU`SaY\_a^aVX`Y`UaG[]][W¥RY[¥S  
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TGGTCTTGCTTTACTGTAATGACCGATGGACCAAGTGAT  
+HWI-EAS443:3:10:869:840#0/1  
aba^aaaa`aa`aa\_aa]a`a``^a`aa\_^Z]\_]`Z^\_^  
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AAATTACTTGTCAATGGTAAATGGCAACTCAGCACCGTCT  
+HWI-EAS443:3:10:899:957#0/1  
a^abaaaaab\_```aaa^a``^\_\_\_\_a^`\_\_`[\_Y^`Y¥^  
@HWI-EAS443:3:10:980:432#0/1  
GATTCTTATACTGTTGTCTTTACTGTATATAGCCCATCCA  
+HWI-EAS443:3:10:980:432#0/1  
a\_\_\_W\_]a\_X\_`¥^XY^^^]V^^Z]\_]^XZURZZXZ  
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+HWI-EAS443:3:11:1109:327#0/1  
`¥VaZaVbbb\_aa¥`]ab¥ab`^abaWbaaY¥Y^\_ZF¥OX  
@HWI-EAS443:3:11:1739:1236#0/1  
CTTGGAACCGATTCTTATACTGTTGTCTTTACTGTATATA  
+HWI-EAS443:3:11:1739:1236#0/1  
¥\_WF^`a^\_b`¥X\_\_^]ZaaZbb]\_]a¥Y^aaX]a\_\_^  
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+HWI-EAS443:3:11:253:261#0/1  
]\_bba\_abb`bba`aa``abbbab``abb[b`babaaaab  
@HWI-EAS443:3:11:369:1575#0/1  
AAATTACTTGTCAATGGTAAATGGCAACTCAGCACCGTCT  
+HWI-EAS443:3:11:369:1575#0/1  
`a¥aabaaaa`aaaaa[Zb`a\_\_\_¥aa\_^R`]a`\_Y^]]  
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aba`aaa[aXYa]\_[^^QUZ\_]\_\_aVZ]ZPP^`I\_\_aB  
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+HWI-EAS443:3:11:717:1807#0/1  
aYa^a\_Xa]XTaGV\_X]¥`\_^I^^Z]]O]^^WS]XRBBBB  
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GTTCTTGCTTTACTGTAATGACCGATGGACCAAGTGATGG  
+HWI-EAS443:3:11:74:536#0/1  
a\_aa`aaaaaa```a^`^\_`\_`a^\_\_X^X]]`X`]\_\_^

@HWI-EAS443:3:11:821:832#0/1  
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\_baabbbbbbbabb]abbaabaabb^ba\_aba`a\_aaaZ  
@HWI-EAS443:3:11:984:2003#0/1  
GGGCTATATACAGTAAAGACAACAGTATAAGAATCGGTTC  
+HWI-EAS443:3:11:984:2003#0/1  
aaa`[[Ya\_\_\_\_\_XHW`\_\_\_\_^^^V^\_X¥]^XX]^VVXYBBB  
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+HWI-EAS443:3:12:1372:1108#0/1  
a\_aa]\_aaa^\_\_V]^\_^\_^\_\_W^Z^\_\_VZXW]^V]^ZWXX  
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+HWI-EAS443:3:12:1418:568#0/1  
a^```a`baaaaabb]aa¥¥aa`^Zabaaa`\_`a[^\_\_X  
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+HWI-EAS443:3:12:1588:1261#0/1  
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+HWI-EAS443:3:12:1607:1188#0/1  
a]Z`¥^^[¥T`\_aYTQ\_^Z^[\_U¥^W`^^UZy][Y¥VBBB  
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+HWI-EAS443:3:12:1682:1003#0/1  
abbbb]]\_]XbbaaI`aa]baaa\_a^a[aa¥V`a^X\_[V¥  
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+HWI-EAS443:3:12:262:1209#0/1  
VaT`[babab¥aab``\_ab\_a^aa^ab`Xa`a[b``\_aS  
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GGGCTATATACAGTAAAGACAACAGTATAAGAATCGGTTC  
+HWI-EAS443:3:12:446:322#0/1  
^b``\_R\_^]S^Z]Xa]aa]¥]X`VT][YXa\_\_``\_YWY  
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+HWI-EAS443:3:12:572:217#0/1  
XaSbbaabaaa`abaaaaabab^a`abb\_[`¥¥\_a]a^a`  
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+HWI-EAS443:3:12:621:1900#0/1  
aaa``\_a`aaaa\_^WSaa\_]`Y\_]Xa\_¥\_\_X\_]\_\_\_\_Y`]]  
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+HWI-EAS443:3:12:802:1484#0/1  
aaaaaaaa^baa\_aaaY\_a``a`Y[]a`^¥[``\_aaa^\_`\_\_  
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+HWI-EAS443:3:12:981:1161#0/1  
a\_^\_a[ `X¥Y` [Y¥T¥LYUZZ¥WVaS\_^Z]^WQQY  
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+HWI-EAS443:3:13:1070:1994#0/1  
aaaaaaVabbb`¥aaa\_YZ`aaa`aaa`Xa\_^\_a\_a^`^  
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+HWI-EAS443:3:13:1251:1273#0/1  
Z\_Z\_T\_Y¥WZ^`aaV]] [[WUY` `\_]a` ]` [SO^\_a\_]U  
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+HWI-EAS443:3:13:1285:1589#0/1  
aba\_aa\_ab\_aa`a\_`aa`^ba^` `aaWG` ]\_\_`\_W^]]Y  
@HWI-EAS443:3:13:1613:320#0/1  
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+HWI-EAS443:3:13:1613:320#0/1  
aab`a^]aTQYaaaa]^Z^a\_¥Z[¥[U[\_[^W^¥^\_X  
@HWI-EAS443:3:13:245:524#0/1  
ACCGATTCTTATACTGTTGTCTTTACTGTATATAGCCCAT  
+HWI-EAS443:3:13:245:524#0/1  
ab]FR`a^aaa\_\_aaa]`\_^\_a\_^\_a\_a¥a` `^¥X¥Z^\_^  
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GTTTTTTGAACAAATTACTTGTCAATGGTAAATGGCAACT  
+HWI-EAS443:3:13:497:771#0/1  
^Y[\_`a]\_Z]`Y¥\_a[^¥\_a^\_XT[`]U]Y[Z\_^Y^]]Y  
@HWI-EAS443:3:13:781:1205#0/1  
AGTTTTTTGAACAAATTACTTGTCAATGGTAAATGGCAAC  
+HWI-EAS443:3:13:781:1205#0/1  
a` ` ` `^¥a\_a`aaa` `^` ]`^^Y]` `¥Z^\_[ ]W]Y\_\_Y  
@HWI-EAS443:3:13:903:716#0/1  
GTCTAATGGAGCAAATGGAGTAAAAGGATTTTCATTCAAA  
+HWI-EAS443:3:13:903:716#0/1  
a\_\_aaXaaa[a`¥`\_]aa]a\_`Z^`a` ]^`^\_]` `\_^`^U  
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T`b^aaaab`VaOVbaYUa\_¥aU`bRa¥`\_aab]aVBBBB  
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+HWI-EAS443:3:14:1142:666#0/1  
]Y\_¥¥Z¥`^W\_VY\_\_W¥Z]\_U]M]¥[SSZb`a`^] [\_]Z]  
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GGCCTGTCCATCACTTGGTCCATCGGTCATTACAGTAAAG  
+HWI-EAS443:3:14:115:197#0/1  
aabbab`abbaaaaaaa\_aaaaaaY¥\_\_` `\_\_a]\_a^X  
@HWI-EAS443:3:14:1312:657#0/1  
ATCGTCTAATGGAGCAAATGGAGTAAAAGGATTTTCATTC  
+HWI-EAS443:3:14:1312:657#0/1  
aa]`^T`^` [\_VZ]YY]Y]¥[W¥[X^Z^]¥WMU]XQX]WY



@HWI-EAS443:3:14:1517:211#0/1  
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ab\_aba`ba`Z``\_a`a`\_a]]\_a`\_[\_\_]^`^^\_^[  
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+HWI-EAS443:3:14:1544:953#0/1  
ZZb^ba[ab`a\_ab\_`^bab¥¥¥ba^^Xa¥L^aaYa¥\_\_]  
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+HWI-EAS443:3:14:459:1459#0/1  
`¥V`¥X^ZH^]NU\_ZX^U¥UW^P\_[a¥¥X]P]X\_`JPURQ  
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AGTTTTTTGAACAAATTACTTGTCAATGGTAAATGGCAAC  
+HWI-EAS443:3:14:640:1177#0/1  
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GACCGATGGACCAAGTGATGGACAGGCCTCATACAAGATC  
+HWI-EAS443:3:14:767:1893#0/1  
X¥b\_aaY`b`¥abb^abb\_\_a`\_`aba]abababb\_aaS  
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ATTTGAATGAAAATCCTTTTACTCCATTTGCTCCATTAGA  
+HWI-EAS443:3:14:909:2020#0/1  
R\_^¥bba\_Yab^b\_YJ`SV¥bbbbTbb`ba\_\_bYb]Xa^`  
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GAGTTTTTTGAACAAATTACTTGTCAATGGTAAATGGCAA  
+HWI-EAS443:3:15:1110:1657#0/1  
\_Z\_[Za`aa\_[KYW\_a`¥0[`b]]\_\_aa]S`\_YY\_^\_[\_  
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TGGATGGGCTATATACAGTAAAGACAACAGTATAAGAATC  
+HWI-EAS443:3:15:1113:792#0/1  
`a^¥\_b\_ZUU]¥VWV\_]¥N]¥aRO^aaa\_[G\_]`a]ZY¥  
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CGTATTTGAATGAAAATCCTTTTACTCCATTTGCTCCATT  
+HWI-EAS443:3:15:1193:1624#0/1  
aba`bbbabaabaaabb\_\_baa`bZba\_aaa`\_aa\_\_aa^  
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+HWI-EAS443:3:15:394:1597#0/1  
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+HWI-EAS443:3:15:479:308#0/1  
a``a]TY`^]QZa`¥ZG[]U[TZZ[M[]ZZ[]¥[`aBBBB  
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+HWI-EAS443:3:15:530:869#0/1  
abbaaaabaaaaba`aaa\_aaaaa\_Wa`\_``\_a```^\_  
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+HWI-EAS443:3:15:963:890#0/1  
X`\_Y`aa\_H]\_Y\_\_abbaS^adW^]¥aYTaaaZK^UQ`N  
@HWI-EAS443:3:15:965:484#0/1  
GAATGAAAATCCTTTTACTCCATTTGCTCCATTAGACGAT  
+HWI-EAS443:3:15:965:484#0/1  
[^bbbbabb]`Z`\_abbab\_V`abaaa\_a\_a`aa`aabaa  
@HWI-EAS443:3:16:1032:1077#0/1  
GAGTTTTTTGAACAAATTACTTGTCAATGGTAAATGGCAA  
+HWI-EAS443:3:16:1032:1077#0/1  
^TZ\_aaa]`b`a^aaa`a`aa]`a`a\_aaa[`\_`a\_`^`  
@HWI-EAS443:3:16:1067:1001#0/1  
CCCTATCCAAACACCATTGCCGTATTTGAATGAAAATCCT  
+HWI-EAS443:3:16:1067:1001#0/1  
abaabbbbb^a¥aba]aabaaa\_\_aaaa]aaaa`\_\_a]W`  
@HWI-EAS443:3:16:1184:947#0/1  
AATGACCGATGGACCAAGTGATGGACAGGCCTCATACAAG  
+HWI-EAS443:3:16:1184:947#0/1  
]RY`Xa`¥`aaV]RZXWa\_V][Y[^ZZ`ZZ[\_Z]  
@HWI-EAS443:3:16:1309:1171#0/1  
GGCCTGTCCATCACTTGGTCCATCGGTCATTACAGTAAAG  
+HWI-EAS443:3:16:1309:1171#0/1  
ab`aa^a]b`aaa\_aa[\_`aa^a\_[aa]\_^Y^URZ\_`  
@HWI-EAS443:3:16:1430:744#0/1  
AAACACCATTGCCGTATTTGAATGAAAATCCTTTTACTCC  
+HWI-EAS443:3:16:1430:744#0/1  
\_\_\_\_\_¥¥¥\_\_^\_a`]\_`]^R^]\_\_^\_^]X]a\_Z^a\_]XT  
@HWI-EAS443:3:16:1446:1048#0/1  
AAAGGATTTTCATTCAAATACGGCAATGGTGTGGATAG  
+HWI-EAS443:3:16:1446:1048#0/1  
\_`abY^b]`\_aa`V^\_a`]HYWS[``^G¥Raa\_]SU[N  
@HWI-EAS443:3:16:1477:265#0/1  
GGAGTTTTTTGAACAAATTACTTGTCAATGGTAAATGGCA  
+HWI-EAS443:3:16:1477:265#0/1  
abab\_`aaaaaa]aa`aaaa^a`bX\_a`a`^W\_\_W^ZV\_  
@HWI-EAS443:3:16:164:1079#0/1  
CAAATTACTTGTCAATGGTAAATGGCAACTCAGCACCGTC  
+HWI-EAS443:3:16:164:1079#0/1  
aaaZbYUaabbbaa`a\_QU`]Z\_aa\_aa^[\_a\_a`R^Y  
@HWI-EAS443:3:16:1720:1009#0/1  
ATCACTTGGTCCATCGGTCATTACAGTAAAGCAAGAACCA  
+HWI-EAS443:3:16:1720:1009#0/1  
`b`aaaZT^XZ`^]a]`a[YG^RSW¥\_¥0¥¥][PLDU  
@HWI-EAS443:3:16:624:864#0/1  
CAAACACATCCCCCTTGAACCGATTCTTATACTGTTGTC  
+HWI-EAS443:3:16:624:864#0/1  
VW[U\_¥\_`^Z`a¥aaaaYa¥Y`\_`\_X]\_`¥\_[]a[Z¥TT  
@HWI-EAS443:3:16:643:1410#0/1  
GGCCTGTCCATCACTTGGTCCATCGGTCATTACAGTAAAG  
+HWI-EAS443:3:16:643:1410#0/1  
^`baa\_a`bb]abbabbb`bbbbbbb^abbbbaa`][\_bba



+HWI-EAS443:3:18:1279:1658#0/1  
a`aaaba]\_a\_JP\_`T\_aV`N`\_0a\_a]^\_^X\_SR\_]\_]\_0  
@HWI-EAS443:3:18:1458:2002#0/1  
AAATTACTTGTC AATGGTAAATGGCAACTCAGCACCGTCT  
+HWI-EAS443:3:18:1458:2002#0/1  
abYaYb^`^`]^`^a\_aJIY^¥]^¥R¥`]YU\_]0\_BBBBBB  
@HWI-EAS443:3:18:1458:620#0/1  
CAGTATAAGAATCGGTTCCAAGGGGGATGTGTTTGCATA  
+HWI-EAS443:3:18:1458:620#0/1  
abbaabbbbabbbabb\_\_a``[]Y\_aa\_\_a¥Za\_a¥XPS^`  
@HWI-EAS443:3:18:1542:687#0/1  
AGCAAATGGAGTAAAAGGATTTTCATTCAAATACGGCAAT  
+HWI-EAS443:3:18:1542:687#0/1  
^\_]aaabbaa\_`^aaaaba\_a`a`\_aaaa\_aaa\_a`]\_\_^  
@HWI-EAS443:3:18:1594:648#0/1  
ATTCTGAAGATCTTGATGAGGCCTGCCATCACTTGGTC  
+HWI-EAS443:3:18:1594:648#0/1  
¥S`Ya^`b\_W\_aabaRa\_``aa\_\_``[M` [[]aZ\_\_[ST]  
@HWI-EAS443:3:18:164:562#0/1  
GGATGGGCTATATACAGTAAAGACAACAGTATAAGAATCG  
+HWI-EAS443:3:18:164:562#0/1  
^a\_a`]\_a¥`aba\_`Va\_aTa\_`\_aa]aX\_\_^^YWUWZB  
@HWI-EAS443:3:19:1131:760#0/1  
GAACAAATTACTTGTC AATGGTAAATGGCAACTCAGCACCC  
+HWI-EAS443:3:19:1131:760#0/1  
aa`ab\_XaK¥abV\_``¥RVba[`aM¥`I\_bV`aW\_L`¥\_¥  
@HWI-EAS443:3:19:1162:1811#0/1  
GTTCTTGCTTTACTGTAATGACCGATGGACCAAGTGATGG  
+HWI-EAS443:3:19:1162:1811#0/1  
]Sba]aa]a¥WYaab\_a``aa[`aa`aaa`\_aaaX``[a\_  
@HWI-EAS443:3:19:1223:626#0/1  
AAATTACTTGTC AATGGTAAATGGCAACTCAGCACCGTCT  
+HWI-EAS443:3:19:1223:626#0/1  
a`b`baa`a`aa\_]¥ba¥aaaZ^^[`\_W\_Xaa¥a]¥\_]U  
@HWI-EAS443:3:19:1243:780#0/1  
ATTTGAATGAAAATCCTTTTACTCCATTTGCTCCATTAGA  
+HWI-EAS443:3:19:1243:780#0/1  
aabbbbbbbbabbb\_abbbbbabaabbabbaabaabaaaa  
@HWI-EAS443:3:19:1289:490#0/1  
GGGCTATATACAGTAAAGACAACAGTATAAGAATCGGTTC  
+HWI-EAS443:3:19:1289:490#0/1  
a]V^bab\_\_`]\_b\_\_¥`^^\_¥OX\_X]Y^`]\_]`^]`THNV  
@HWI-EAS443:3:19:1683:1405#0/1  
GAACAAATTACTTGTC AATGGTAAATGGCAACTCAGCACCC  
+HWI-EAS443:3:19:1683:1405#0/1  
`bba`bbbbbbSa\_b\_``^bb]]a\_[Ua`]a]\_a^¥\_]ZNB  
@HWI-EAS443:3:19:233:1027#0/1  
AGTTTTTTGAACAAATTACTTGTC AATGGTAAATGGCAAC  
+HWI-EAS443:3:19:233:1027#0/1  
\_`Uababbb\_ba``aaaaabab`baWaaa]a`a`a\_aa`a

@HWI-EAS443:3:19:44:1866#0/1  
AAGGATTTTCATTCAAATACGGCAATGGTGTGGATAGG  
+HWI-EAS443:3:19:44:1866#0/1  
aba`\_a`aa`aa\_a`\_a^Z\_\_\_\_\_]\_WW[X\_]¥[]^¥^  
@HWI-EAS443:3:19:474:831#0/1  
ATTTGAATGAAAATCCTTTTACTCCATTTGCTCCATTAGA  
+HWI-EAS443:3:19:474:831#0/1  
abab`¥Y`ba^aaaba`aa\_\_`aaaaaaa`a\_a^aa\_a[a  
@HWI-EAS443:3:19:599:529#0/1  
GTTTTTTGAACAAATTACTTGTCAATGGTAAATGGCAACT  
+HWI-EAS443:3:19:599:529#0/1  
a^T\_S`a\_]ZNa[Z`TV\_\_^¥UPPZTa`XOLSSJVZU\_¥U  
@HWI-EAS443:3:19:687:66#0/1  
AGCAAATGGAGTAAAAGGATTTTCATTCAAATACGGCAAT  
+HWI-EAS443:3:19:687:66#0/1  
a`a`\_abbb]b\_aaabb]Y\_aaaXaa^\_aa[``¥a^Y\_^  
@HWI-EAS443:3:19:759:470#0/1  
GTATGAGGCCTGTCCATCACTTGGTCCATCGGTCATTACA  
+HWI-EAS443:3:19:759:470#0/1  
`H^a`]¥^`\_aY^\_\_\_\_\_]Y^]]\_]V]^X^]XX\_SVYY^  
@HWI-EAS443:3:19:929:1980#0/1  
ACCAAGTGATGGACAGGCCTCATACAAGATCTTCAGAATA  
+HWI-EAS443:3:19:929:1980#0/1  
]ab¥QS`a]^J¥^a`Z]V¥\_\_`aX^ZVWV[[a\_\_ZU  
@HWI-EAS443:3:1:1072:724#0/1  
GGCCTGTCCATCACTTGGTCCATCGGTCATTACAGTAAAG  
+HWI-EAS443:3:1:1072:724#0/1  
aaaabba[\_aa^b`aaab`\_`bba`a`^aab^N`\_W^\_aB  
@HWI-EAS443:3:1:1161:276#0/1  
GGGCTATATACAGTAAAGACAACAGTATAAGAATCGGTTC  
+HWI-EAS443:3:1:1161:276#0/1  
a`X`\_`\_`\_`^¥`]¥¥\_a\_\_\_\_\_Z^^[^`Z^\_XZ\_R^BBBB  
@HWI-EAS443:3:1:1185:799#0/1  
ATCGTCTAATGGAGCAAATGGAGTAAAAGGATTTTCATTC  
+HWI-EAS443:3:1:1185:799#0/1  
abab\_\_b\_Z^W\_S`U`\_`aaa¥a`\_`aaa\_T¥a\_aY``BB  
@HWI-EAS443:3:1:1208:1619#0/1  
GAGTTTTTTGAACAAATTACTTGTCAATGGTAAATGGCAA  
+HWI-EAS443:3:1:1208:1619#0/1  
`aa\_abbbbabbbabbbbaaab^\_\_a\_bbb\_abaaa`a`\_`  
@HWI-EAS443:3:1:1367:1208#0/1  
GGAGTTTTTTGAACAAATTACTTGTCAATGGTAAATGGCA  
+HWI-EAS443:3:1:1367:1208#0/1  
abaa`a`aaaa\_\_W`\_`a`a[\_`\_]X``aa][\_Z\_]BBBB  
@HWI-EAS443:3:1:1469:1203#0/1  
GGCCTGTCCATCACTTGGTCCATCGGTCATTACAGTAAAG  
+HWI-EAS443:3:1:1469:1203#0/1  
`b\_H]]`Z\_]Z`\_PVab¥XNT`]\_]SYRG^P]]ZSV\_BB  
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AGCAAATGGAGTAAAAGGATTTTCATTCAAATACGGCAAT

+HWI-EAS443:3:1:154:1563#0/1  
abUab`^b\_babbbabaabaaaR\_baaaaaababa\_`¥a  
@HWI-EAS443:3:1:205:137#0/1  
GGGCTATATACAGTAAAGACAACAGTATAAGAATCGGTTC  
+HWI-EAS443:3:1:205:137#0/1  
abbaaaaabaabaZ`a```a`a\_aW`a`]a^a\_X`^BBB  
@HWI-EAS443:3:1:766:843#0/1  
ACTGTAATGACCGATGGACCAAGTGATGGACAGGCCTCAT  
+HWI-EAS443:3:1:766:843#0/1  
aaSUPb`aab]T`\_a[\_ZTY\_ab]b^]aa`U\_\_\_RRBBBB  
@HWI-EAS443:3:20:1082:702#0/1  
GTTTTTTGAACAAATTACTTGTCAATGGTAAATGGCAACT  
+HWI-EAS443:3:20:1082:702#0/1  
aW]babaaa`a\_aaa`aaa¥\_\_\_a`[HW\_^U\_\_¥`\_0^  
@HWI-EAS443:3:20:1113:72#0/1  
GAGCAAATGGAGTAAAAGGATTTTCATTCAAATACGGCAA  
+HWI-EAS443:3:20:1113:72#0/1  
a\_aY[R¥aa`Z`¥[ ]\_\_bb\_]\_0\_\_\_a^^]W]\_]\_]N[Y  
@HWI-EAS443:3:20:1136:475#0/1  
GAACAAATTACTTGTCAATGGTAAATGGCAACTCAGCACC  
+HWI-EAS443:3:20:1136:475#0/1  
aaa`^`aa`\_aaa¥^`\_aa`W`¥`^^¥^`\_¥\_U\_^¥\_WW  
@HWI-EAS443:3:20:580:1232#0/1  
AAATTACTTGTCAATGGTAAATGGCAACTCAGCACCCTCT  
+HWI-EAS443:3:20:580:1232#0/1  
aba\_\_bbb[Y\_aaaa^RVb`[ `a`aa`]a`a][Z^U`Z\_]`  
@HWI-EAS443:3:20:699:557#0/1  
AGTTTTTTGAACAAATTACTTGTCAATGGTAAATGGCAAC  
+HWI-EAS443:3:20:699:557#0/1  
\_b\_aaaaabaa^¥aaaaa`aa`^```aaaZa`\_^`\_\_`\_]`  
@HWI-EAS443:3:21:1047:2018#0/1  
GTCCAGTATCGTCTAATGGAGCAAATGGAGTAAAAGGATT  
+HWI-EAS443:3:21:1047:2018#0/1  
a]a]Z`V`Y^`TYX[ `^`\_[Y`^Y¥V[¥G\_T[^`\_^[[[  
@HWI-EAS443:3:21:1375:760#0/1  
CAAGTGATGGACAGGCCTCATACAAGATCTTCAGAAATAGA  
+HWI-EAS443:3:21:1375:760#0/1  
abab]b^`^`^`^`^`\_]`^a]a\_\_aa[ `W`\_^\_a\_Y^^^^  
@HWI-EAS443:3:21:1560:425#0/1  
GTTTTTTGAACAAATTACTTGTCAATGGTAAATGGCAACT  
+HWI-EAS443:3:21:1560:425#0/1  
a¥^\_\_\_^^^^^][Z\_]Z[^^^W[ZZ\_^OXZZZZ^ZZZXZ  
@HWI-EAS443:3:21:1680:885#0/1  
AAAATCCTTTTACTCCATTTGCTCCATTAGACGATACTGG  
+HWI-EAS443:3:21:1680:885#0/1  
a[ `^a^aa^aa`^aX`aaa`[\_]TP\_]a]QX¥a`\_^R¥PW  
@HWI-EAS443:3:21:1744:965#0/1  
GTTTAAAATGAATCCAAACCAAAGATAATAACCATTGGT  
+HWI-EAS443:3:21:1744:965#0/1  
a`aa¥][\_]Y^`\_]a\_^TT`\_`\_]\_\_\_\_\_^V]\_[ ] [ ]

@HWI-EAS443:3:21:438:1207#0/1  
GTATGAGGCCTGTCCATCACTTGGTCCATCGGTCATTACA  
+HWI-EAS443:3:21:438:1207#0/1  
`ab^Xaaabaaa`bbbaaaa\_]¥Tb``aaaaV\_`aa\_Ya  
@HWI-EAS443:3:21:45:1123#0/1  
GGGCTATATACAGTAAAGACAACAGTATAAGAATCGGTTC  
+HWI-EAS443:3:21:45:1123#0/1  
``^a]aaba```a^]W¥\_a\_]X\_]Y`[``ZS¥XT\_ZBBB  
@HWI-EAS443:3:21:747:1269#0/1  
AAATCCTTTTACTCCATTTGCTCCATTAGACGATACTGGA  
+HWI-EAS443:3:21:747:1269#0/1  
a\_aaabbbbaa\_a\_`Y\_aaaaa[X^`a`aaaa^\_]^X\_  
@HWI-EAS443:3:21:920:1948#0/1  
GTTTTTTGAACAAATTACTTGTCAATGGTAAATGGCAACT  
+HWI-EAS443:3:21:920:1948#0/1  
a\_````YZ]`UVa\_\_\_\_`\_\_U^X]`^WGXH\_]X]RTQ¥^SW  
@HWI-EAS443:3:22:1299:1586#0/1  
AGTTTTTTGAACAAATTACTTGTCAATGGTAAATGGCAAC  
+HWI-EAS443:3:22:1299:1586#0/1  
¥`Z^¥bbbaaa^aa`a```a`a`¥X]\_¥IY^`\_X][RaXZ  
@HWI-EAS443:3:22:186:691#0/1  
AGTTTTTTGAACAAATTACTTGTCAATGGTAAATGGCAAC  
+HWI-EAS443:3:22:186:691#0/1  
S^¥¥b]\_`\_T¥bba]`Z`b`WaT\_\_a\_^VHa`JV^aaba\_  
@HWI-EAS443:3:22:206:1517#0/1  
GGCTATATACAGTAAAGACAACAGTATAAGAATCGGTTCC  
+HWI-EAS443:3:22:206:1517#0/1  
`abaa^^\_a\_ba`\_]JXa`a\_a]R`\_^a¥R][YU^RX^¥  
@HWI-EAS443:3:22:454:1080#0/1  
GGCCTGTCCATCACTTGGTCCATCGGTCATTACAGTAAAG  
+HWI-EAS443:3:22:454:1080#0/1  
¥abbbbbbabbabbbb`b\_bbabbbb\_baba]aY`Z\_aa`  
@HWI-EAS443:3:22:478:1822#0/1  
GGAACCGATTCTTATACTGTTGTCTTTACTGTATATAGCC  
+HWI-EAS443:3:22:478:1822#0/1  
a``bba^``abaabaaaa\_`aa^aaa`ba\_a^aab\_aU^`  
@HWI-EAS443:3:22:596:110#0/1  
AGTTTTTTGAACAAATTACTTGTCAATGGTAAATGGCAAC  
+HWI-EAS443:3:22:596:110#0/1  
\_b¥`aaaaaaaSa`a`aa`a\_a\_``\_aa\_V``^]]a]`\_`  
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AAACACCATTGCCGATTTGAATGAAAATCCTTTTACTCC  
+HWI-EAS443:3:22:864:423#0/1  
a^¥a^¥]a`^^]`\_aaa^aaaaa\_a^aaYZ`a`a^U^OL  
@HWI-EAS443:3:23:102:1663#0/1  
TTTTGAACAAATTACTTGTCAATGGTAAATGGCAACTCAG  
+HWI-EAS443:3:23:102:1663#0/1  
\_¥]a`abaaaa\_\_a`a`a^a`^a`\_Wa\_YR[^\_^Z]`^\_Y  
@HWI-EAS443:3:23:1175:660#0/1  
GAGTTTTTTGAACAAATTACTTGTCAATGGTAAATGGCAA

+HWI-EAS443:3:23:1175:660#0/1  
[S]a]^a\_aaWX\_`^aa]\_ZU]W`\_OFYX¥\_¥UYNWH`\_  
@HWI-EAS443:3:23:765:1739#0/1  
TGAAAATCCTTTTACTCCATTTGCTCCATTAGACGATACT  
+HWI-EAS443:3:23:765:1739#0/1  
[`[IWS]^a^\_Q\_`a^ba^^Z]\_aX\_MX^]\_Y[SZ`¥YML  
@HWI-EAS443:3:23:858:838#0/1  
AAACACCATTGCCGTATTTGAATGAAAATCCTTTTACTCC  
+HWI-EAS443:3:23:858:838#0/1  
¥¥Z\_aa^U]`a^Y^YP^Z¥XZRS\_\_\_[``[W¥\_^Y`^]P¥  
@HWI-EAS443:3:23:894:1824#0/1  
GGAGTAAAAGGATTTTCATTCAAATACGGCAATGGTGT  
+HWI-EAS443:3:23:894:1824#0/1  
^`aTWbb`\_b`\_`\_ab`bbb\_aab¥bb`LaYba`VSR^^b`  
@HWI-EAS443:3:23:970:222#0/1  
GACCGATGGACCAAGTGATGGACAGGCCTCATACAAGATC  
+HWI-EAS443:3:23:970:222#0/1  
aaaab\_bbaaa`aabYba\_aaa\_\_a`aW^`\_`\_`\_]a\_^¥  
@HWI-EAS443:3:24:1054:694#0/1  
AAATCCTTTTACTCCATTTGCTCCATTAGACGATACTGGA  
+HWI-EAS443:3:24:1054:694#0/1  
abbbaabbbbaabbabaaa`aba\_aba`aaaa\_a\_]\_aa^  
@HWI-EAS443:3:24:1205:221#0/1  
GGAGTTTTTTGAACAAATTACTTGTCAATGGTAAATGGCA  
+HWI-EAS443:3:24:1205:221#0/1  
a`]\_^aaba\_a\_b^aaabba\_aab\_Ya^aa`Xa\_\_\_`[]`  
@HWI-EAS443:3:24:1367:904#0/1  
GGAGTTTTTTGAACAAATTACTTGTCAATGGTAAATGGCA  
+HWI-EAS443:3:24:1367:904#0/1  
ab^Y`a]bab`]a\_XS[baa[a`aa`^a\_a`^\_a\_\_\_RS]  
@HWI-EAS443:3:24:1504:1394#0/1  
CCTTGAACCGATTCTTATACTGTTGTCTTTACTGTATAT  
+HWI-EAS443:3:24:1504:1394#0/1  
`ab`bbbb¥b`\_`bZbbbb`\_baabbbba^^bb\_\_bb¥  
@HWI-EAS443:3:24:1576:1053#0/1  
GGAGTTTTTTGAACAAATTACTTGTCAATGGTAAATGGCA  
+HWI-EAS443:3:24:1576:1053#0/1  
¥^^\_Y`a`ba^`abaZ`^baabaaY[aabb`aYaa\_YVb  
@HWI-EAS443:3:24:1709:569#0/1  
GAACAAATTACTTGTCAATGGTAAATGGCAACTCAGCACC  
+HWI-EAS443:3:24:1709:569#0/1  
``[[\_aab\_aSba`]`^\_a`XK\_aXZa¥[[[D[Z^ZR]XR  
@HWI-EAS443:3:24:274:1398#0/1  
AGGATTTTCATTCAAATACGGCAATGGTGTGGATAGGG  
+HWI-EAS443:3:24:274:1398#0/1  
`VZ[Z`U\_\_a\_]a`][\_\_`\_^\_^]]YWPZR]^WWYTPZZW  
@HWI-EAS443:3:24:574:1957#0/1  
CTGAAGATCTTGTATGAGGCCTGTCCATCACTTGGTCCAT  
+HWI-EAS443:3:24:574:1957#0/1  
`[`Z`W]¥a`aaX^YQ\_aX\_]`]F]\_^`Za]Z[¥MO^Z]^



@HWI-EAS443:3:24:626:1300#0/1  
GGTCCAGTATCGTCTAATGGAGCAAATGGAGTAAAAGGAT  
+HWI-EAS443:3:24:626:1300#0/1  
abXb\_abU[]ba[^^]`]^S\_QTYTaa\_U`U`\_`\_`YW]  
@HWI-EAS443:3:24:723:791#0/1  
AGTTTTTTGAACAAATTACTTGTCAATGGTAAATGGCAAC  
+HWI-EAS443:3:24:723:791#0/1  
\_aZ`^^^bb`b`X\_baa^bbbZZ¥aaa`XY`^\_a^aaaa  
@HWI-EAS443:3:25:1029:570#0/1  
CTTACTGTAATGACCGATGGACCAAGTGATGGACAGGCC  
+HWI-EAS443:3:25:1029:570#0/1  
abbbbbbbbbbbbbbbbabbbbbbbbabbbb`babbb`a  
@HWI-EAS443:3:25:1199:30#0/1  
ATGGAGTAAAAGGATTTTCATTCAAATACGGCAATGGTGT  
+HWI-EAS443:3:25:1199:30#0/1  
abbbabaabbabbbbbbbbabbb`aaaba\_ba\_```aa\_b`  
@HWI-EAS443:3:25:1287:868#0/1  
ATGGAGTAAAAGGATTTTCATTCAAATACGGCAATGGTGT  
+HWI-EAS443:3:25:1287:868#0/1  
[^`^a`XTTTa`^XRab\_0¥\_P[aYVa\_aZIRN]aaXH\_F  
@HWI-EAS443:3:25:1735:469#0/1  
TGGAACCGATTCTTATACTGTTGTCTTTACTGTATATAGC  
+HWI-EAS443:3:25:1735:469#0/1  
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+HWI-EAS443:3:25:918:1594#0/1  
¥MTVWHIPNTO\_BBBBBBBBBBBBBBBBBBBBBBBBBB  
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+HWI-EAS443:3:26:125:962#0/1  
a¥Z`\_N`SUWWW\_VT[RLZ\_`^¥^^OGYJX]V¥QQLQWSF  
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AGTTTTTTGAACAAATTACTTGTCAATGGTAAATGGCAAC  
+HWI-EAS443:3:26:1616:177#0/1  
¥a\_X\_ab`YUabb^Z`ab^baaa\_aaa`\_U\_a\_ZR]]a^X  
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GGAGTTTTTTGAACAAATTACTTGTCAATGGTAAATGGCA  
+HWI-EAS443:3:26:42:479#0/1  
a^Za[[Y`^T^X¥Y[a\_\_`]\_ZaS\_[W\_`TDT``[XXWZ  
@HWI-EAS443:3:26:502:1374#0/1  
GACCAAGTGATGGACAGGCCTCATACAAGATCTTCAGAAT  
+HWI-EAS443:3:26:502:1374#0/1  
aabbaZa¥a\_aa`aa`X``\_aa\_\_`a```^a\_\_a\_\_\_\_^`  
@HWI-EAS443:3:26:564:1063#0/1  
ATTGCCGATTTGAATGAAAATCCTTTTACTCCATTTGCT  
+HWI-EAS443:3:26:564:1063#0/1  
U\_IR\_X`^\_a¥R`WaaWZI\_QXb^VP¥abaaZR`\_[`IT¥  
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+HWI-EAS443:3:26:724:1008#0/1  
abU`baaabaa`aa`ab`abaa\_aaaa\_\_]aaaa\_]aa`]  
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+HWI-EAS443:3:26:997:779#0/1  
a[WYSZ\_[XY^LXT¥VZ]\_¥¥^\_\_XY¥¥^`UDUXWYW[QY  
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GGCCTGTCCATCACTTGGTCCATCGGTCATTACAGTAAAG  
+HWI-EAS443:3:27:1001:647#0/1  
\_\_`\_`\_`ab\_`\_`a^`aaa¥]aaaa^UX]]][HP[0]^Y  
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+HWI-EAS443:3:27:1194:1258#0/1  
aaaaaabbb^aaaa\_aa]`aaaa`a\_\_a^a`aa`\_\_\_\_  
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+HWI-EAS443:3:27:1347:288#0/1  
ab]a`\_`\_`aaab`\_ba\_abaYb]\_^aa`aXb^\_`abaa\_^a  
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+HWI-EAS443:3:27:1669:566#0/1  
abb`b`\_`bb\_a`aa\_^aa\_aa`a]\_`a\_`a`\_ZZ`^\_a¥`  
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GACAAACACATCCCCCTTGAACCGATTCTTATACTGTTG  
+HWI-EAS443:3:27:1712:1102#0/1  
aaab`baaab\_¥`\_`^\_aaa`\_]a^`\_¥a`^\_^^^\_]\_\_  
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ATGTTCTTGTCTTACTGTAATGACCGATGGACCAAGTGA  
+HWI-EAS443:3:27:1747:755#0/1  
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GGCCTGTCCATCACTTGGTCCATCGGTCATTACAGTAAAG  
+HWI-EAS443:3:27:464:246#0/1  
a\_aaaa¥]\_T]`^[\_`]¥U^[^Y[`NVUZ^^ZWZTY^]X  
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+HWI-EAS443:3:27:975:1385#0/1  
aa`\_]aaabaaa\_abbbaaaa`a[\_a`^a[]`\_`a]`[\_a\_  
@HWI-EAS443:3:27:993:966#0/1  
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+HWI-EAS443:3:27:993:966#0/1  
aabbb`\_]babbbbaaabbbbaaab`bbab`aa`aaaVa  
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+HWI-EAS443:3:28:1120:1589#0/1  
Y`ba`bbbababab`bb¥b`baaYZa\_ba^Mbaa\_a`aaa  
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CAAATTACTTGTCAATGGTAAATGGCAACTCAGCACCGTC  
+HWI-EAS443:3:28:1396:1873#0/1  
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@HWI-EAS443:3:28:16:863#0/1  
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+HWI-EAS443:3:28:16:863#0/1  
`a\_bbb`bbaaaaabb`ba`]aaaa\_aa^`a]Y`^  
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GTATTTGAATGAAAATCCTTTTACTCCATTTGCTCCATTA  
+HWI-EAS443:3:28:300:984#0/1  
]NTZW^`a\_¥XYaZ^`\_\_\_`\_Z^a`a\_\_WZ]]`[[ZPT  
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GGAGTAAAAGGATTTTCATTCAAATACGGCAATGGTGT  
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@HWI-EAS443:3:28:605:904#0/1  
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+HWI-EAS443:3:28:605:904#0/1  
`aab]X\_bab``aa\_bab```]¥aa\_aZP`a[^aa[Vaa[  
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GCCTGTCCATCACTTGGTCCATCGGTCATTACAGTAAAGC  
+HWI-EAS443:3:28:630:185#0/1  
aa[bbaaS`^a^a\_a¥]]\_a`¥a`H^`\_\_`S\_¥^`\_\_]0  
@HWI-EAS443:3:28:794:1213#0/1  
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+HWI-EAS443:3:28:794:1213#0/1  
abbbabbbbab^abbabbab`b`bbbaabaaaaaK\_  
@HWI-EAS443:3:29:1045:1311#0/1  
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+HWI-EAS443:3:29:1045:1311#0/1  
aaa`a^babaabaaaa]\_a`aaaa`Z`\_]a`\_a]``]`R  
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CCGATTCTTATACTGTTGTCTTTACTGTATATAGCCCATC  
+HWI-EAS443:3:29:1366:1354#0/1  
R``[Q\_^¥b`XZ¥`¥a`a`\_\_baa¥\_0\_¥\_aZO\_a]S]^  
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CATCACTTGGTCCATCGGTCATTACAGTAAAGCAAGAACC  
+HWI-EAS443:3:29:1556:945#0/1  
[`TQ\_ZaY`[]YP]\_U\_ZXW¥Z¥]OSaYS`\_a`\_ZXY]OX  
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+HWI-EAS443:3:29:218:1770#0/1  
¥aaYa\_``[Z]QW`baaa`aa`a`^`^a]b`\_]a^]  
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GTCCAGTATCGTCTAATGGAGCAAATGGAGTAAAAGGATT  
+HWI-EAS443:3:29:248:981#0/1  
aZ`aaW]Z]`Y\_\_`\_] [VU]\_[[`]`X^`S¥¥]a`^Z[Y  
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+HWI-EAS443:3:29:287:112#0/1  
`a`^W\_`a^a\_\_W^^^]X^]a^U\_Z^^^X\_]^[[]TBB  
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+HWI-EAS443:3:29:460:532#0/1  
^abbbabbabb]ab^T][aaaaaa^a`\_`[\_ZYNT¥T^  
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+HWI-EAS443:3:29:719:281#0/1  
\_ZWabbbba¥baababbaaabXaaaaa^aa`\_a`aa\_  
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+HWI-EAS443:3:29:850:807#0/1  
a`¥ba`a\_abaaaaa`]^a`aa`a`a`^`^`^`XZ^B  
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AGTTTTTTGAACAAATTACTTGTCAATGGTAAATGGCAAC  
+HWI-EAS443:3:29:960:339#0/1  
a¥[[\_aa\_ba`Y\_V`^^[\_]\_a^\_VS]\_aW\_[YZ\_a\_]\_X  
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ATGAGGCCTGTCCATCACTTGGTCCATCGGTCATTACAGT  
+HWI-EAS443:3:2:1081:34#0/1  
a]^`aa\_Z¥b`]UTTU^\_]\_WZ^UUW`\_`RRNZXJQ`B  
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+HWI-EAS443:3:2:1336:662#0/1  
a^^`^`aa`a^AS¥\_] ^YR\_VX^]a\_\_X^^Z¥¥YSXRBB  
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ab`ab`aaaa`ba`b`\_baa\_a``\_aaaa\_aU\_\_`aa`Y\_  
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+HWI-EAS443:3:2:1629:828#0/1  
a^^[Y]Y^\_a[^\_\_^`]T¥UW^^^\_\_W¥T\_Y^^\_]Y[[  
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CAAACACATCCCCCTTGAACCGATTCTTATACTGTTGTC  
+HWI-EAS443:3:2:1724:1022#0/1  
Q¥Y\_\_ab\_YPRNQWX¥\_Yb^RT]^\_a^X\_ZUHZ^]]^X  
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AAAGGATTTTCATTCAAATACGGCAATGGTGTGGATAG  
+HWI-EAS443:3:2:394:680#0/1  
`Yaa^V`\_a¥a\_a\_RXPa\_a\_a\_\_\_[\_][Q`Y^\_a`N[Y`  
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GGAGTTTTTTGAACAAATTACTTGTCAATGGTAAATGGCA  
+HWI-EAS443:3:2:635:1485#0/1  
aa\_a`\_XZaab`\_W[a`\_\_a¥`aaZ`Y\_\_`WX^Y\_I^S¥B  
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+HWI-EAS443:3:2:838:901#0/1  
ZU¥[`LZZZ[U¥\_\_¥QZ]Y\_]Y]\_¥X]U]ZZSOY^¥\_PPV  
@HWI-EAS443:3:2:892:271#0/1  
CTTGAACCGATTCTTATACTGTTGTCTTTACTGTATATA  
+HWI-EAS443:3:2:892:271#0/1  
a`aaaaRaa`a`^`[\_`^]a]\_\_¥W\_^\_\_Z\_\_X^^\_^\_

@HWI-EAS443:3:2:918:903#0/1  
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+HWI-EAS443:3:2:918:903#0/1  
ab`^\_aa\_aaaa\_aZ`^\_aaa^]`a`U`Za^aa]^\_]]¥  
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AGTTTTTTGAACAAATTACTTGTCAATGGTAAATGGCAAC  
+HWI-EAS443:3:30:100:856#0/1  
\_b[aaaa^^`Y`a[\_a```aa\_\_a`V^\_a[^`a[Y\_aa\_^  
@HWI-EAS443:3:30:1032:1888#0/1  
GAACAAATTACTTGTCAATGGTAAATGGCAACTCAGCACC  
+HWI-EAS443:3:30:1032:1888#0/1  
`[a``aaaWa¥a\_\_Y[¥¥^\_ZV\_]\_^XNS^a\_UY\_UO\_Z]  
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+HWI-EAS443:3:30:1371:1793#0/1  
a)`^UTWSR\_[WZLOO]YQSQJRPZBBBBBBBBBBBBBBB  
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+HWI-EAS443:3:30:138:387#0/1  
a[ba`b`^`a\_]a````a`^a\_`^]aa\_]aY^\_`a\_]`^`^  
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GGGCTATATACAGTAAAGACAACAGTATAAGAATCGGTTC  
+HWI-EAS443:3:30:1565:1065#0/1  
ab\_a```a]aa]`^`aa^a`¥Za^\_aWaaa`a`aa0`TPRR  
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+HWI-EAS443:3:30:206:1376#0/1  
aba\_`abbaaa¥`\_a\_`aab\_\_ab¥aa^Q\_`J]¥^a\_`a`  
@HWI-EAS443:3:30:258:1124#0/1  
GTCCAGTATCGTCTAATGGAGCAAATGGAGTAAAAGGATT  
+HWI-EAS443:3:30:258:1124#0/1  
\_`a[J]Wa``]PTNMWRYM\_`\_^TFXVRVX[]`]WYY[  
@HWI-EAS443:3:30:631:482#0/1  
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+HWI-EAS443:3:30:631:482#0/1  
a]aa\_^^b`Y`aa^¥^aa\_``\_Y\_^Z¥[¥T]Y\_\_`U\_^YZ  
@HWI-EAS443:3:30:76:780#0/1  
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+HWI-EAS443:3:30:76:780#0/1  
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+HWI-EAS443:3:30:797:1432#0/1  
S¥\_VZ\_````a^Mba`\_[a\_0\_a¥`baba`\_¥¥`]]`LZY  
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GTCCAGTATCGTCTAATGGAGCAAATGGAGTAAAAGGATT  
+HWI-EAS443:3:30:883:1147#0/1  
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+HWI-EAS443:3:31:110:1583#0/1  
`S\_Y`]^`a`^`\_baaa][ab¥Z¥b^X]\_X\_a\_WVY``a^  
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+HWI-EAS443:3:31:119:536#0/1  
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+HWI-EAS443:3:31:1299:826#0/1  
abbaa`Z\_\_ababa`baa[Y\_`]Za¥aaaa^`aa`a^\_\_[  
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+HWI-EAS443:3:31:310:685#0/1  
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+HWI-EAS443:3:31:643:1101#0/1  
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AACAGTATAAGAATCGGTTCCAAGGGGGATGTGTTTGTCA  
+HWI-EAS443:3:31:963:1343#0/1  
a``a¥Saaaaaa`a`YXa^WLNSR¥^YU¥GZWVUPGWM  
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+HWI-EAS443:3:32:1039:1540#0/1  
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+HWI-EAS443:3:32:1080:1331#0/1  
a]aaa`abaaaaa^`\_aaaaa``[Z\_`a``\_]`V[^  
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AGTTTTTTGAACAAATTACTTGTCAATGGTAAATGGCAAC  
+HWI-EAS443:3:32:1427:444#0/1  
[\_UXa[\_VSZ`I`a¥^T0]YaaaR^]aZF`^\_S\_PaZVB  
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+HWI-EAS443:3:32:427:1796#0/1  
^aaabbabbaaaaa`bbaaaa\_babaaa]aWRT¥aS\_`]  
@HWI-EAS443:3:32:67:802#0/1  
AAGGATTTTCATTCAAATACGGCAATGGTGTGGATAGG  
+HWI-EAS443:3:32:67:802#0/1  
a\_^`V[a`aZ\_^`[W^^X\_]`WW^[[^X]Y`^XVSSTRZ  
@HWI-EAS443:3:32:744:1855#0/1  
GGAGTTTTTTGAACAAATTACTTGTCAATGGTAAATGGCA  
+HWI-EAS443:3:32:744:1855#0/1  
\_[Z`La\_^ZVabbaaabbabaab`]^bba¥\_`ab^Pa]aa  
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+HWI-EAS443:3:32:931:1864#0/1  
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\_S\_\_`\_[a^\_]\_\_`\_¥^`\_aZ[TV\_\_ZX^^YYYYPXWXY  
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+HWI-EAS443:3:33:1049:280#0/1  
a`bRaaaaa^X`]a`¥`\_`a\_a]`\_`\_`ZSVZVVJ[Y^[X  
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+HWI-EAS443:3:33:443:1956#0/1  
`P\_aaaQa`a`\_]\_^R`^`\_W^a]^\_XX\_]X\_0\_\_[PMWZ  
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+HWI-EAS443:3:33:898:1846#0/1  
aaabaa\_aaa\_aaaa`\_[a`Za[`a``\_\_\_\_`^WU[\_¥^^^  
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GGAGTTTTTTGAACAAATTACTTGTCAATGGTAAATGGCA  
+HWI-EAS443:3:33:950:997#0/1  
¥\_V]WX^a^[TOV\_Y]P]]\_`[U[Q]TWZ\_[RXYPZZXKZ  
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+HWI-EAS443:3:33:962:1865#0/1  
`UaabaSaaaa\_\_aa`^Y]]\_a\_aa^¥aS`W\_^^aW^]0\_  
@HWI-EAS443:3:34:1170:388#0/1  
GGAGTTTTTTGAACAAATTACTTGTCAATGGTAAATGGCA  
+HWI-EAS443:3:34:1170:388#0/1  
^ZUa^a`aaaa^aa\_\_a\_a`a^a¥^YU]^¥X[YY[W]S[  
@HWI-EAS443:3:34:1483:1727#0/1  
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+HWI-EAS443:3:34:1483:1727#0/1  
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+HWI-EAS443:3:34:445:814#0/1  
aTHYNGZ^YY[YR¥¥^]ZY]\_[SUX[LEN^WQUYPGR]TB  
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+HWI-EAS443:3:34:572:60#0/1  
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+HWI-EAS443:3:34:858:963#0/1  
aaaa]a`aaaaaa`^aaaaa\_aa`]]`\_`aa[`¥\_]Y^U\_  
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a\_a`\_Na^aVW]\_U\_abY]aW\_] [a``Z^a`]S]a\_`^Z[  
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+HWI-EAS443:3:36:1522:1358#0/1  
a``a\_abbabb\_aaaaab`a`b\_b^aa^\_baZ`^a^a\_[Z  
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+HWI-EAS443:3:36:1544:359#0/1  
aa\_a^aaaa`\_\_`X^`aa`\_^\_\_`]\_ZZ\_\_\_Z^^\_^\_ZV¥  
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+HWI-EAS443:3:36:1694:82#0/1  
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+HWI-EAS443:3:36:266:217#0/1  
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+HWI-EAS443:3:36:40:1223#0/1  
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^^QUOX\_a``¥YW]\_\_^0aaa¥WXY\_]Z^^VT¥Ya^[RX`



@HWI-EAS443:3:37:1068:610#0/1  
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+HWI-EAS443:3:37:1211:758#0/1  
abS^J\_S]^^^]a¥Q\_]V`Y^`[^a¥^P`[Z]`\_WL¥W  
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+HWI-EAS443:3:37:1275:1216#0/1  
\_¥aaab^b]`\_]`YaaZaba^abaab]]\_a[`]\_\_`\_Y]`  
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ZZ¥a[aa`][aa\_¥aaaaa\_`\_aY`]aMPT]¥[`¥0^\_P  
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+HWI-EAS443:3:38:1170:659#0/1  
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+HWI-EAS443:3:38:1489:856#0/1  
`Z`aaba`\_a\_\_\_\_\_aaaa`a^`a^`a¥XXXZY^¥U\_]YY  
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^Y`Y]TJW^a\_P`Y[Z[\_Z[\_RQYZZ\_V^SY0^Z\_^WW¥  
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+HWI-EAS443:3:38:282:161#0/1  
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+HWI-EAS443:3:39:1171:1939#0/1  
a^aaab[aa`\_bb]aa\_`^\_\_\_\_`\_a`¥`]`R¥]`\_\_\_\_]NYW  
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¥a``aaa¥¥\_]]aa^`]`a\_aa`ZY]S\_YX[^[]UYBBB  
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+HWI-EAS443:3:39:699:968#0/1  
`a¥YaaV¥\_a[a\_X\_Ya^¥S^aa^[X¥a`a^[\_]`Z]] [T  
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+HWI-EAS443:3:3:1011:406#0/1  
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+HWI-EAS443:3:3:1287:1218#0/1  
ab\_aabbaa\_aaa`abaa`aaa`\_aa`aaZ`^\_\_a\_W\_a]  
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+HWI-EAS443:3:3:442:1458#0/1  
a`¥`a`\_\_]RYaaQI]G^VU\_S\_a¥^^]Z¥WVL]`S^]B  
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+HWI-EAS443:3:3:477:1016#0/1  
aa`a]\_`a`a`\_]`\_\_`\_^]\_]\_XY[XZ\_¥V\_^XS]YN\_  
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+HWI-EAS443:3:40:1141:1687#0/1  
ab^\_¥^aa^^a`aaaa`aaaaba^U¥[N¥[\_Y]\_Y`¥¥  
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+HWI-EAS443:3:40:1401:1891#0/1  
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+HWI-EAS443:3:40:1437:1157#0/1  
]\_\_\_[aa\_bb\_a[\_b`\_\_QZ\_bbbb`MQ\_¥\_baa^a^\_QQ  
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ACCAAGTGATGGACAGGCCTCATACAAGATCTTCAGAATA  
+HWI-EAS443:3:40:1570:1192#0/1  
aa^a\_b0`a`\_aX^^]¥\_U\_¥`a^XXXYY^^V`\_\_\_\_^Z`^  
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+HWI-EAS443:3:40:1670:302#0/1  
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Zaa]\_]ab`bb`\_]¥[[[]\_]aa`]¥^`]TZ^]aa^  
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¥a`b``bbab`a`a\_[ba^[XW]\_aa]W¥]WUNYZYS¥¥  
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`[`aaa\_a`\_\_a^`aa`Y`aa¥\_Z¥`aaY\_^\_]a^\_¥YZ^  
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+HWI-EAS443:3:43:1075:979#0/1  
`T`aYY)`¥[Pa`]¥N])`\_`^YR]O\_\_]P^^PZ]^]RQJ  
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+HWI-EAS443:3:43:1140:1107#0/1  
R`¥a`VW^aa¥aa\_Z¥¥W^UN¥Y¥T¥T^[G[W][P¥H[Z  
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+HWI-EAS443:3:43:1153:1562#0/1  
^¥X^WZb`Y`]^aU[Y`aXTZ`Q`^T`W`ZQZUUSLWP¥  
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+HWI-EAS443:3:43:1174:790#0/1  
abaa^abba`a¥```[I]a^\_a`[M[^]\_aRX\_PVV\_Z¥\_  
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T\_UVSaZ`X¥aaaaa[Tb[¥[^[Y]]YZT¥aV`XTXX\_  
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+HWI-EAS443:3:43:180:1096#0/1  
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+HWI-EAS443:3:43:208:958#0/1  
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+HWI-EAS443:3:43:725:1761#0/1  
a`a\_a\_bbbb¥`\_`aa^ba`aaa`^aaa`\_\_a^Y``a`  
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+HWI-EAS443:3:43:962:569#0/1  
ZaZ`^]¥a`\_]SXa`\_WZ]\_[¥ab[a\_VZ`^ZXZZ]¥^W  
@HWI-EAS443:3:44:1092:517#0/1  
GTCCAGTATCGTCTAATGGAGCAAATGGAGTAAAAGGATT  
+HWI-EAS443:3:44:1092:517#0/1  
a[`aaaW^a`aV^¥`X`UaQ]^`^`aaS`Z[Z^a¥WSX  
@HWI-EAS443:3:44:1148:464#0/1  
GAGTTTTTTGAACAAATTACTTGTCAATGGTAAATGGCAA  
+HWI-EAS443:3:44:1148:464#0/1  
aXa)`a`^a`^`^`[¥aa`\_\_aYY^]\_a\_Y\_]V¥\_]`[^  
@HWI-EAS443:3:44:1289:25#0/1  
GAGTTTTTTGAACAAATTACTTGTCAATGGTAAATGGCAA  
+HWI-EAS443:3:44:1289:25#0/1  
^\_b^bbbab`¥a`babaabab`\_a\_aa`¥`\_\_aaa^aa  
@HWI-EAS443:3:44:12:1561#0/1  
GGAGTTTTTTGAACAAATTACTTGTCAATGGTAAATGGCA  
+HWI-EAS443:3:44:12:1561#0/1  
aaaa\_aaaab^aaaa\_aaa`]a^a]\_\_\_`\_\_W^\_^\_X¥`  
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GTTTTTTGAACAAATTACTTGTCAATGGTAAATGGCAACT  
+HWI-EAS443:3:44:1420:811#0/1  
a\_[aaaa]`U`\_`a`\_Yaaa\_]`\_`Z\_YZ`\_^`\_Y]  
@HWI-EAS443:3:44:1483:1114#0/1  
GACCGATGGACCAAGTGATGGACAGGCCTCATACAAGATC  
+HWI-EAS443:3:44:1483:1114#0/1  
aaaabaaaba`a^b^a`aba`^`]^¥a`\_\_`\_^`¥Z^R  
@HWI-EAS443:3:44:1499:508#0/1  
AACACCATTGCCGATTTGAATGAAAATCCTTTTACTCCA  
+HWI-EAS443:3:44:1499:508#0/1  
`baa``aab\_abZ\_aa`a`\_`\_`a\_a`\_\_a```a^a`[\_

@HWI-EAS443:3:44:435:439#0/1  
CGATTCTTATACTGTTGTCTTTACTGTATATAGCCCATCC  
+HWI-EAS443:3:44:435:439#0/1  
aba\_\_Q`Xa^`b`b``aWY]a^VU`]S`\_\_Z`\_[^`a\_^O  
@HWI-EAS443:3:44:531:992#0/1  
GGAGTTTTTTGAACAAATTACTTGTCAATGGTAAATGGCA  
+HWI-EAS443:3:44:531:992#0/1  
aa[a^aaaaa`a\_aa`a\_a`a`a\_\_`aaa\_Za`\_\_\_\_^]`  
@HWI-EAS443:3:44:862:1216#0/1  
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+HWI-EAS443:3:44:862:1216#0/1  
a]ZUW[[^a]a\_Wa]]W[NLY\_¥YU]^^[U[Z^W\_]ZUUT  
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+HWI-EAS443:3:44:966:756#0/1  
WH[a\_[\_Z\_[^aba]RLR`][V[[[`aaXOY]YF^a[]¥X  
@HWI-EAS443:3:44:99:1814#0/1  
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+HWI-EAS443:3:44:99:1814#0/1  
]`a`aV```\_aabbY\_]aaa`aaaaYXW^¥¥`^R[^UDM  
@HWI-EAS443:3:45:1101:953#0/1  
GGGCTATATACAGTAAAGACAACAGTATAAGAATCGGTTC  
+HWI-EAS443:3:45:1101:953#0/1  
^aab\_aaabbaaa[\_aaaa`a`]¥¥``\_a^^\_a\_`¥MX]  
@HWI-EAS443:3:45:117:864#0/1  
GTCCAGTATCGTCTAATGGAGCAAATGGAGTAAAAGGATT  
+HWI-EAS443:3:45:117:864#0/1  
aaa`aaaa\_a^\_a\_a```Va]]`^`a\_]aZ`aa``^^`  
@HWI-EAS443:3:45:1265:76#0/1  
GGCCTGTCCATCACTTGGTCCATCGGTCATTACAGTAAAG  
+HWI-EAS443:3:45:1265:76#0/1  
ababab`a\_aa`aaaaab\_`aaaabb]^`\_`VUU[U\_`a]  
@HWI-EAS443:3:45:1267:493#0/1  
CAAATTACTTGTCAATGGTAAATGGCAACTCAGCACCGTC  
+HWI-EAS443:3:45:1267:493#0/1  
abbbba\_abbba`a``aba^aa`aaa^ab]a^aa\_a^Za^`  
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AGTTTTTTGAACAAATTACTTGTCAATGGTAAATGGCAAC  
+HWI-EAS443:3:45:1288:228#0/1  
abaaaa`bb\_\_\_aaa`aaaa^`^\_aa¥N\_]XYTZ]\_Y  
@HWI-EAS443:3:45:1420:733#0/1  
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+HWI-EAS443:3:45:1420:733#0/1  
a`^^bb`baba[¥]ZaTRZ¥P]\_\_`]GVWN^`MXU^ZZX[  
@HWI-EAS443:3:45:1544:1098#0/1  
GAACAAATTACTTGTCAATGGTAAATGGCAACTCAGCACC  
+HWI-EAS443:3:45:1544:1098#0/1  
aaa`^aab\_a`aU\_G[Y\_`a\_U][W^[QS][¥XO^S\_\_ZZ  
@HWI-EAS443:3:45:222:738#0/1  
ATTCTGAAGATCTTGTATGAGGCCTGTCCATCACTTGGTC

+HWI-EAS443:3:45:222:738#0/1  
ab`Raba\_¥a\_]\_a`U`aa`RM^[¥`TZ]RW^^MMXa¥PV  
@HWI-EAS443:3:45:368:1437#0/1  
CAAACACATCCCCCTTGAACCGATTCTTATACTGTTGTC  
+HWI-EAS443:3:45:368:1437#0/1  
¥`a]H]Q[S¥\_Z\_¥`a\_Y^Y[O[S[TOQZX\_`Y[X¥[O^V  
@HWI-EAS443:3:45:48:206#0/1  
TGAAAATCCTTTTACTCCATTTGCTCCATTAGACGATACT  
+HWI-EAS443:3:45:48:206#0/1  
^b\_abbbaa\_abbaaba^aa`aa`a]` `aaaaa\_^]WW  
@HWI-EAS443:3:45:569:468#0/1  
GACCGATGGACCAAGTGATGGACAGGCCTCATACAAGATC  
+HWI-EAS443:3:45:569:468#0/1  
a`b`aaa` ` `]^`^a^b`a`^`\_\_a]`a\_\_a\_^`^`\_]\_Y  
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GACCAAGTGATGGACAGGCCTCATACAAGATCTTCAGAAT  
+HWI-EAS443:3:45:593:1004#0/1  
` `aaa^b`baabaaaa]^R]a\_aaa\_aaaaaYaa` `a\_` `  
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CTTTACTGTAATGACCGATGGACCAAGTGATGGACAGGCC  
+HWI-EAS443:3:45:878:1445#0/1  
abbab`baaabbbbab`abbaaaaaa\_aaaaaa`aa\_Y\_  
@HWI-EAS443:3:46:1188:469#0/1  
GACCGATGGACCAAGTGATGGACAGGCCTCATACAAGATC  
+HWI-EAS443:3:46:1188:469#0/1  
aaaabaaa]^` `a[a`\_aa` `a\_^Z^` ` `]\_\_`^]V  
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ACCAAGTGATGGACAGGCCTCATACAAGATCTTCAGAATA  
+HWI-EAS443:3:46:1398:977#0/1  
X¥[IWbS\_`^ba^[[OUa^\_a`\_\_WYR`X\_W\_]SazO^]  
@HWI-EAS443:3:46:1479:1253#0/1  
GTTTTTTGAACAAATTACTTGTCAATGGTAAATGGCAACT  
+HWI-EAS443:3:46:1479:1253#0/1  
a`aaaba\_\_a\_aaaaaa`aaa^\_a\_aa`]a\_^\_\_XX`a]\_  
@HWI-EAS443:3:46:1486:506#0/1  
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+HWI-EAS443:3:46:1486:506#0/1  
^UW\_P` `[UaYVUTP¥UV\_TUZX[RS¥^¥[LYYX¥[UU\_Z  
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TGAAAATCCTTTTACTCCATTTGCTCCATTAGACGATACT  
+HWI-EAS443:3:46:1583:1532#0/1  
aa`\_a¥a`\_aaaa\_¥` [^^a`a`^`\_[Xaa\_] []a¥^XZX  
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ATTACTTGTCAATGGTAAATGGCAACTCAGCACCGTCTGG  
+HWI-EAS443:3:47:1190:1615#0/1  
\_[\_a\_\_XN\_W[\_aN\_O]V^MR]\_V\_]V` ]\_¥NYQSUQU  
@HWI-EAS443:3:47:1278:1455#0/1  
ATTACTTGTCAATGGTAAATGGCAACTCAGCACCGTCTGG  
+HWI-EAS443:3:47:1278:1455#0/1  
¥¥\_`Q^aa^`\_\_`aa^D^] `W`aaaa` `[a] `a` ^KMWZZ



@HWI-EAS443:3:47:1606:357#0/1  
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+HWI-EAS443:3:47:1606:357#0/1  
aab\_ab`aab`a^aa`aaa^a`a]X\_^`a`Y\_]¥X\_\_^\_^  
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GTCCAGTATCGTCTAATGGAGCAAATGGAGTAAAAGGATT  
+HWI-EAS443:3:47:445:1039#0/1  
aaaaabaabab\_^a`bba[aX`\_`aaa]a^\_a`a\_\_]]\_  
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GAAGATCTTGTATGAGGCCTGTCCATCACTTGGTCCATCG  
+HWI-EAS443:3:47:713:63#0/1  
a`a^XX`¥a[Zaa^a`¥^^\_PPX^YYYYQ]S]`VUXWXU\_  
@HWI-EAS443:3:47:726:1706#0/1  
ACAAATTACTTGTCAATGGTAAATGGCAACTCAGCACCGT  
+HWI-EAS443:3:47:726:1706#0/1  
aa`aabbb¥aabH0]aaa`]aa^^\_]`X`]V\_[SZ^V\_Y  
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AACAAATTACTTGTCAATGGTAAATGGCAACTCAGCACCG  
+HWI-EAS443:3:47:799:523#0/1  
a\_bZbb¥`Y`^abXa^¥abbYa\_]Y`]Va]a\_aaa\_a\_S`  
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ATGGGCTATATACAGTAAAGACAACAGTATAAGAATCGGT  
+HWI-EAS443:3:47:828:1901#0/1  
^b¥bba`Y`ba^SLbSV\_\_\_aUaaY^^R`¥S]\_X\_VFT\_J  
@HWI-EAS443:3:48:1012:1500#0/1  
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+HWI-EAS443:3:48:1012:1500#0/1  
a`b`]ba`^`WNZQ^MT^a\_`[\_ZH`\_U]\_`^¥`[\_`]\_W  
@HWI-EAS443:3:48:1054:334#0/1  
TCCTTTTACTCCATTTGCTCCATTAGACGATACTGGACCA  
+HWI-EAS443:3:48:1054:334#0/1  
aa\_]ba\_¥a\_]^`W¥VQ`\_^`\_a\_\_\_\_XXGYYYYXQWP  
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+HWI-EAS443:3:48:1331:630#0/1  
ab`b\_abaaaaaa\_aaaa`\_aaa\_a\_\_aa\_]a\_a^`^\_  
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ATTACTTGTCAATGGTAAATGGCAACTCAGCACCGTCTGG  
+HWI-EAS443:3:48:1538:691#0/1  
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+HWI-EAS443:3:48:1554:122#0/1  
a]^\_\_aZ\_\_]a^Z\_]\_]\_\_Z]YXXZ]]]X\_XZXZ^]YSW]  
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+HWI-EAS443:3:48:1599:947#0/1  
Z^R\_Q`Y\_N\_¥P\_b`b\_[ZY¥]RY^]a`¥aa¥]ZY\_\_Qb¥  
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a`aaaa`a^a`aaa`aaa\_\_`^`a`Z`\_YX\_]\_]\_YY  
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+HWI-EAS443:3:48:1679:1481#0/1  
\_a]b^bbbZ]a`¥a\_abY`a^FQ\_]`^\_a]`\_]\_a[L0¥¥  
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GGGCTATATACAGTAAAGACAACAGTATAAGAATCGGTTCC  
+HWI-EAS443:3:48:519:706#0/1  
a`\_\_X¥``\_^`\_^`\_^`\_^]\_`Z]\_]¥^X^\_XX]YU]WYX  
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AAATCCTTTTACTCCATTTGCTCCATTAGACGATACTGGA  
+HWI-EAS443:3:48:564:1454#0/1  
aaaa\_abaa`a\_a^`aaa`a^aa^a\_aY```\_`^0^Y]W  
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+HWI-EAS443:3:48:785:988#0/1  
aaaaa`\_aaaaaaaaa]`a\_a`a`\_`^`\_`\_a`^`[`T¥`\_`¥T  
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Y`bbVb^^`U`abbb`aba`bbbaaab`aaa`aba`baab  
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+HWI-EAS443:3:49:1234:382#0/1  
aabbababaaT`abaa\_b]b\_\_`¥aaa^a`^`\_\_`\_Ya  
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+HWI-EAS443:3:49:1383:579#0/1  
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GGAGTTTTTTGAACAAATTACTTGTCAATGGTAAATGGCA  
+HWI-EAS443:3:49:14:455#0/1  
a\_aa`babba`abaaaaaa`a`a\_aa`aa]X`a`]\_\_\_a  
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+HWI-EAS443:3:49:1552:927#0/1  
^\_aaaa^aaaaabbb\_aa`aa`][ba^Y\_aa[\_Wa`\_a]X  
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+HWI-EAS443:3:49:1576:1567#0/1  
`Zab¥¥a]¥PXW`\_W^a\_a¥MYVU\_]¥YL\_¥¥]^¥\_\_U  
@HWI-EAS443:3:49:1582:493#0/1  
CCCTTGAACCGATTCTTATACTGTTGTCTTTACTGTATA  
+HWI-EAS443:3:49:1582:493#0/1  
`¥^b`\_`^^`\_`\_a`\_a`aba`]`ba]aa`aa`aaTa`[^a^  
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AGTTTTTTGAACAAATTACTTGTCAATGGTAAATGGCAAC  
+HWI-EAS443:3:49:1653:1197#0/1  
¥b^```^`a¥`]Z`a`\_YP\_]YZb¥^b`VEV^X\_ZSZa¥W

@HWI-EAS443:3:49:1658:159#0/1  
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+HWI-EAS443:3:49:1658:159#0/1  
abbbbaaababaaaa`baa`^a\_\_aaaa`\_``Y\_``a]  
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GGAGTTTTTTGAACAAATTACTTGTCAATGGTAAATGGCA  
+HWI-EAS443:3:49:423:1951#0/1  
aa]URa¥USUa]^TT`\_Z\_\_Y]¥RGH`\_^WPP\_^]R`XR[  
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aaa\_abababb`b`bbababb`\_a`bbVT[\_a^a`a`Z  
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+HWI-EAS443:3:49:547:197#0/1  
ab``\_¥¥MYa`a[^`¥\_\_\_\_S\_¥SXXa`]T\_T[[\_\_\_\_XXZ  
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+HWI-EAS443:3:49:733:1980#0/1  
\_b`\_bbbM`aaX\_¥Vaa\_aabN`aaaab¥`[abb`ab\_  
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+HWI-EAS443:3:4:1274:240#0/1  
abbbb\_abaabaaa`^abaaa`a^\_aba^\_[aU\_^a`a`\_  
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GTCCAGTATCGTCTAATGGAGCAAATGGAGTAAAAGGATT  
+HWI-EAS443:3:4:1435:1430#0/1  
a`\_`\_a^aa\_a¥X`\_\_`aaY`UQ¥`^a`W\_Y^P\_``^]Y\_  
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GGTCCAGTATCGTCTAATGGAGCAAATGGAGTAAAAGGAT  
+HWI-EAS443:3:4:169:200#0/1  
aaYa`\_b\_a`^a¥\_a`^`\_\_Z\_^Z^^\_a`[\_Z]]\_``^]  
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ATGGGCTATATACAGTAAAGACAACAGTATAAGAATCGGT  
+HWI-EAS443:3:4:1775:2023#0/1  
aa`^a`a`a^a\_G`\_\_\_\_\_OLRWIVRIN\_BBBBBBBBBB  
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GGAGTTTTTTGAACAAATTACTTGTCAATGGTAAATGGCA  
+HWI-EAS443:3:4:1788:1647#0/1  
]Z¥aVa¥¥Z`¥aZ^V]Y[[¥`\_a^\_YQ`\_]VZVY]BBBB  
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GGAGTTTTTTGAACAAATTACTTGTCAATGGTAAATGGCA  
+HWI-EAS443:3:4:272:1715#0/1  
a``T^VV`a]a¥^`a`^`\_SW]\_XRSU\_\_VPR[\_YS[I¥  
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GGAGTTTTTTGAACAAATTACTTGTCAATGGTAAATGGCA  
+HWI-EAS443:3:4:896:684#0/1  
a`\_a^aabba\_UY^]^`a`````T^`^\_a^]\_]Y\_^[B  
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GAACAAATTACTTGTCAATGGTAAATGGCAACTCAGCACC

+HWI-EAS443:3:50:1067:336#0/1  
aa`aV`a]abbbab[`aa]bbHa\_aXJaY]^Va\_a\_]`P\_  
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+HWI-EAS443:3:50:1155:28#0/1  
RT^`a`a¥\_[^¥^^ba`\_QQ^\_\_^aW[a¥\_`¥\_S\_a`¥`T  
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+HWI-EAS443:3:50:1771:819#0/1  
aba`abbbbaa`bbbb```\_bbabbbbbbbbaab`ab  
@HWI-EAS443:3:50:308:159#0/1  
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+HWI-EAS443:3:50:308:159#0/1  
\_YZ`^^^`L]\_VTS]¥\_\_XSFS[T`a¥N\_T[X^`Z]^WZ  
@HWI-EAS443:3:50:421:1633#0/1  
GGAGTTTTTTGAACAAATTACTTGTCAATGGTAAATGGCA  
+HWI-EAS443:3:50:421:1633#0/1  
abab\_aabbaa\_aa\_baa`a`aaa`a``aaa[aa`````^`  
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+HWI-EAS443:3:50:651:957#0/1  
aJa`[aa`TRS\_\_XYaUW]S]G^\_¥\_`aNvZ\_]\_\_\_\_^¥W^  
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GGAGTTTTTTGAACAAATTACTTGTCAATGGTAAATGGCA  
+HWI-EAS443:3:50:657:54#0/1  
\_`]]``\_bb`a\_ab]]bbaaba¥a`QVaaab^Ta\_[abaP^  
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+HWI-EAS443:3:50:819:158#0/1  
`X\_ba^`W\_S0]\_\_\_\_`^¥^XZ^a\_[S\_\_R^¥aXRT\_`]]VY  
@HWI-EAS443:3:51:1237:376#0/1  
GAGTTTTTTGAACAAATTACTTGTCAATGGTAAATGGCAA  
+HWI-EAS443:3:51:1237:376#0/1  
aabaabaabbaa\_a`aba`\_aaa\_\_`^bb`W`````a\_]`\_  
@HWI-EAS443:3:51:1319:1033#0/1  
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+HWI-EAS443:3:51:1319:1033#0/1  
abb`]]`baba`aaaaab^aa``\_a[a````^V¥]```X]]N  
@HWI-EAS443:3:51:1427:968#0/1  
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+HWI-EAS443:3:51:201:1718#0/1  
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¥Z`^aab`b]^`abab`ZV\_aabb\_\_`\_[a`a`[Za`RL  
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aa`aY[aa^`\_a]Y^\_`[^]^`X^a]^Y^\_]^]\_^\_\_^V0  
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+HWI-EAS443:3:52:375:1229#0/1  
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+HWI-EAS443:3:52:682:1508#0/1  
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+HWI-EAS443:3:53:530:276#0/1  
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+HWI-EAS443:3:53:534:152#0/1  
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+HWI-EAS443:3:53:897:531#0/1  
`bb]`U`^`U`abba]`]`P`XYa¥]¥¥ZZ]¥\_XY¥^¥FU

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`\_\_\_\_bbbbbbb]bbbbbbbaabb\_bbb`baba``a``\_``¥  
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+HWI-EAS443:3:54:122:396#0/1  
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a`\_aa``Z^Z\_^a`^^a`a\_Z^]``\_W^^]]^]X^ZZ^  
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+HWI-EAS443:3:55:722:1421#0/1  
\_\_Z\_aa¥`^\_a`^Yaa\_]WU[GT\_\_^\_\_`Z[ ]^V¥]]V]\_  
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a\_F¥\_\_\_¥FK¥\_[VVXYPX¥P\_[\_XGZNaZ¥L]^Z^][VO  
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^]]]S\_QZa`¥`PZa]^`X^`^a`a\_Z[^UX¥^^¥\_]ZR  
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+HWI-EAS443:3:59:434:1776#0/1  
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+HWI-EAS443:3:59:742:1394#0/1  
\_`\_a`bbbaa^aba`aaWaaa`aa``aa`aa^]aRLOSW]  
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+HWI-EAS443:3:59:770:861#0/1  
\_`a`bbabb\_S\_`a`^bb`^bb\_\_aabbb^[^a\_aYN^aX  
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+HWI-EAS443:3:5:1361:140#0/1  
\_b`aabba^\_aaa`b][^^`^aaaV^aaaa`]\_Y^aY]  
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+HWI-EAS443:3:5:1419:833#0/1  
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GGCCTGTCCATCATTGGTCCATCGGTCATTACAGTAAAG  
+HWI-EAS443:3:5:318:67#0/1  
`X`aa¥\_¥^a`]^`]^G]H]a]ba\_¥\_\_\_XNT¥Z\_^`B

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a`baab`aaaYaa`]a`aa\_`^baa]a]a0aa\_aaaaa\_]`  
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+HWI-EAS443:3:5:772:1100#0/1  
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\_¥b\_^Yb`VbaYV[NV^M\_aaGa¥\_F]HLadW\_]T`^a`B  
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aa]`aaaaaaa`aaaaaaaaaaa]\_aa```\_a\_^`]¥V^]  
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+HWI-EAS443:3:60:1191:551#0/1  
a\_a`\_a^`a`a\_^a`\_\_`^Z]^Z^`\_aX`W^`\_`\_P¥^^  
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+HWI-EAS443:3:60:1278:1205#0/1  
\_¥¥Vba\_a^V`ab^a\_`¥]`a¥¥Wb`bbbb]a¥[Z\_a^VW  
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+HWI-EAS443:3:60:1354:976#0/1  
abbbba`bbba``abb`\_a`\_aa\_``\_a\_a¥aa\_`WWa\_]a  
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+HWI-EAS443:3:60:1368:200#0/1  
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+HWI-EAS443:3:60:330:78#0/1  
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+HWI-EAS443:3:60:963:585#0/1  
^^^`baaab`b`\_^b[Zzb^[`aaaaaQaa`\_a[]\_`S  
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+HWI-EAS443:3:61:1645:702#0/1  
a`a\_\_\_a\_a\_\_\_^`Z^^\_a`\_\_\_S^`\_^`\_^^`ZX]SUUWXU  
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+HWI-EAS443:3:61:774:605#0/1  
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+HWI-EAS443:3:61:856:166#0/1  
ab``a`b`\_¥aaa[\_`baaU]bb¥a`a\_b```Zab`aa]W  
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+HWI-EAS443:3:62:1160:466#0/1  
a`b`\_aaaa`a\_aa`a`a`a`a`a`a`\_a`\_a\_Y\_\_\_^^^\_a`  
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+HWI-EAS443:3:62:121:747#0/1  
¥`UY`^`¥b[a`\_aaaa`YaaaZ^]HR`]¥\_ZY]WNQ\_]N

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QTZ\_`\_b`YU¥V][\_a`[]X\_W\_XZ^^^`^]Z[T^^`^a`\_]  
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+HWI-EAS443:3:62:1606:911#0/1  
a`aba^]b`^^`aabb^`bbbYaXN^aa^]¥a]T`aVWYW  
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aba`babab`a\_\_aabb]aaba\_^a\_abaYaY¥\_a]aaaa  
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+HWI-EAS443:3:62:255:103#0/1  
aaa\_a\_Y]`\_`^^`¥\_]W^U^^¥XXZT¥YSUTVWRPVVTQ  
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+HWI-EAS443:3:62:265:1646#0/1  
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+HWI-EAS443:3:62:409:688#0/1  
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+HWI-EAS443:3:63:1019:830#0/1  
aaa[aaaaaa`aa\_`aaaa`a`a^aaX^`[T^^`\_`^`  
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+HWI-EAS443:3:63:1141:1032#0/1  
abbb\_\_`bbbbaaaa`¥`aaa``baaYY]]`TY\_\_^aa^]  
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aa¥a\_aaaaab\_`\_aaaaaa\_aaa^`\_`aa\_Z\_`\_`^^`\_`  
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+HWI-EAS443:3:63:1352:1241#0/1  
``a^¥U\_`bbb`a\_a^bb`\_`ab\_Y`aaaba[aaaaba`a  
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+HWI-EAS443:3:63:1703:452#0/1  
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+HWI-EAS443:3:63:1732:360#0/1  
Y`0^b\_b¥\_``baab^X``¥RY]¥``H¥SZ\_SWH[XZa`Q  
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+HWI-EAS443:3:63:532:830#0/1  
aaba\_aba`)\`aaa\_aaaa\_]\_Z`a\_`\_\_a^^Wa\_[aYY  
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+HWI-EAS443:3:63:819:535#0/1  
a`ab\_aabbbbbaabaaa`bababaa\_\_^a\_[YQ`¥\_aa\_  
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+HWI-EAS443:3:64:1157:588#0/1  
aab\_aaaba^G^a\_^¥bba\_`b`\_\_\_\_`aaaX`\_^\_a]]``  
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¥¥Z`bbaaY^PTb^ZTZ¥¥b\_V¥[S]\_b`XWaaa`baa`X  
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+HWI-EAS443:3:64:1535:1190#0/1  
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+HWI-EAS443:3:64:170:532#0/1  
aa]aa`Q\_`b\_ba`b``aa\_\_aaa\_a^^aWaY\_a¥^^a]]  
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¥\_aaaa`Z`\_]baa``aa\_[ZRV^XWLZNX`WYIOVLJSX  
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a\_``baaaabaaaaaaa`aaa\_```aaa\_Za\_`¥^\_\_¥Y\_  
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+HWI-EAS443:3:65:1098:163#0/1  
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ababaabbbbaa`\_Zaaaba`\_Z`baaaaa`\_`M^^`W  
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+HWI-EAS443:3:65:696:386#0/1  
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+HWI-EAS443:3:66:114:195#0/1  
aa[bY\_\_¥[aa\_]XV\_Z^^Y^`\_aW\_]YY\_^W[UTXYWR[  
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^R]QN\_]aa\_WT`[ZUaX^`P`[`Y\_^W^\_U[]^ZW`]U\_  
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+HWI-EAS443:3:66:1566:1778#0/1  
aaa`\_\_aa\_a```\_\_a\_\_]VP\_[Z[[H^X\_]NTV[YX`^  
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+HWI-EAS443:3:66:1720:1503#0/1  
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+HWI-EAS443:3:66:451:123#0/1  
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+HWI-EAS443:3:66:547:976#0/1  
^] []abbaa``\_aaabbaabaaX^a^a^a\_a\_U]YX^a`a  
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+HWI-EAS443:3:66:738:675#0/1  
\_X[^`b]a]a\_Z\_a``]a[``]]^^]USa]U¥XP][U[  
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aa\_a`baaaaaa\_`\_^aaaa\_`aa\_aa\_`\_`a\_\_^\_Y]^  
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+HWI-EAS443:3:67:1404:1457#0/1  
\_¥\_`\_L\_a\_]X]X`¥ZYba\_Wa`P]aa]S\_¥X^\_VZ`\_¥  
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+HWI-EAS443:3:67:248:1399#0/1  
]bba\_a^aab¥a]\_\_aabaa`b`a`aaaa\_\_\_[a^Y]`U  
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+HWI-EAS443:3:67:363:164#0/1  
abbbba\_aaaaaaaaa^aaaab```a`aaY\_^``aaX`]¥  
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TGAAAATCCTTTTACTCCATTTGCTCCATTAGACGATACT  
+HWI-EAS443:3:67:420:282#0/1  
YTP¥a\_bb```Y¥X`]¥[```a`X[a¥H¥\_X`\_Z]Z¥YRP  
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+HWI-EAS443:3:67:450:106#0/1  
ab`a^aaabbaa\_`a`\_aaaa`a`aa`a`\_\_^`\_\_Y`\_^`  
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AGACAACAGTATAAGAATCGGTCCAAGGGGATGTGTTT  
+HWI-EAS443:3:67:464:697#0/1  
^`^YZY\_¥Z`\_ZR\_¥S¥a`\_[QY]UGWXYTUDMWMW\_W  
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a\_b\_Zab¥a\_ba^`aaa\_\_^a`babaa]aaSaa`F¥``^  
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\_`]0]a\_bababbaabaabbaa\_abb`b]Saa`^\_Y]aa  
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+HWI-EAS443:3:67:893:1585#0/1  
^U^aa¥`\_bZaaa¥a\_\_``¥aZ\_\_¥V[P^`\_]ZSTSWXZ^



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a`]aYX\_\_T¥XF[ZZ^T][\_\_^^^WdWW¥]¥L¥V^STTOZ  
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+HWI-EAS443:3:68:676:514#0/1  
aabbabbba`baaa\_aaaa\_aaaaa`aa`aaaa]Y\_  
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+HWI-EAS443:3:68:728:997#0/1  
aa`a\_aZHZ`S]X[aY¥\_Ya\_]\_[\_SW^QR¥\_\_¥¥\_NQW]  
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+HWI-EAS443:3:68:946:1012#0/1  
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+HWI-EAS443:3:69:1279:976#0/1  
^XYa\_Y^aa)`Yaaa\_aa`I`aa\_aaa]\_a^PZ¥[T\_]a  
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aa^[\`b\_VV]aaaa\_Xa`\_a`a[VZ\_\_a]\_V`Y^XR\_YZ  
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+HWI-EAS443:3:69:1312:729#0/1  
a]a¥aaba`a]^`aaa`a\_a\_bTRZ\_aa\_V^`^\_[\_\_\_\_  
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+HWI-EAS443:3:69:1613:1142#0/1  
¥aZ`bZ`Z`^X]Va\_SXU^`aab\_[`abaaaaYL¥\_`[b[  
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+HWI-EAS443:3:69:1655:1399#0/1  
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+HWI-EAS443:3:69:332:1536#0/1  
\_abbaa]baba\_ab[a`Y]\_]a\_a`a`¥¥][^`ab\_\_\_\_]\_  
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+HWI-EAS443:3:69:610:1720#0/1  
]baa\_ababbbbbbbbababbaaa[baaba\_]aa`\_^Taa  
@HWI-EAS443:3:69:651:1942#0/1  
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+HWI-EAS443:3:69:651:1942#0/1  
a\_Z^Sa\_U]]\_ZOX^UQMXF[XPTPPWY\_VFULNT[]XZY  
@HWI-EAS443:3:69:660:534#0/1  
TAATGGAGCAAATGGAGTAAAAGGATTTTCATTCAAATAC



@HWI-EAS443:3:70:1094:1070#0/1  
ATGGGCTATATACAGTAAAGACAACAGTATAAGAATCGGT  
+HWI-EAS443:3:70:1094:1070#0/1  
abaa^aa`Z]^aY\_[Z`\_Y`\_a`^X]V^`^^`\_`^¥ZZF  
@HWI-EAS443:3:70:1144:685#0/1  
AAATTACTTGTCAATGGTAAATGGCAACTCAGCACCGTCT  
+HWI-EAS443:3:70:1144:685#0/1  
a`abaaababaaaaab`V`aa\_a`\_aa\_aaa\_aa\_\_`X`  
@HWI-EAS443:3:70:1233:398#0/1  
GTTTTTTGAACAAATTACTTGTCAATGGTAAATGGCAACT  
+HWI-EAS443:3:70:1233:398#0/1  
a]^`aaaaa\_aa``aaa\_`aaa`a`^aa`Za\_`\_`\_]`^\_X^  
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+HWI-EAS443:3:70:1578:990#0/1  
a\_b`aab`a`bbabab\_a`a`abbba^bbbbb`aa\_aa`]  
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+HWI-EAS443:3:70:1592:1115#0/1  
aa`[[aaaaa\_\_\_\_\_^aaa\_a`b¥Y\_[\_\_][\_Z\_`^`ZP¥  
@HWI-EAS443:3:70:64:377#0/1  
GACAAACACATCCCCCTTGAACCGATTCTTATACTGTTG  
+HWI-EAS443:3:70:64:377#0/1  
^V\_]VS\_`XT¥a`^`a\_U\_\_[\_X^RWZTVVUSV]V¥XUV  
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+HWI-EAS443:3:70:946:1376#0/1  
aaZaaaaa\_baaaaaaaabaaa\_aa]aaa]aa^¥^`a`a\_  
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GGAGTTTTTTGAACAAATTACTTGTCAATGGTAAATGGCA  
+HWI-EAS443:3:71:1075:91#0/1  
a]^`bVbaaaaaa`\_\_aabaabaa`W\_\_ab\_]a`a\_a][a  
@HWI-EAS443:3:71:1215:413#0/1  
CCTGTCCATCATTGGTCCATCGGTCATTACAGTAAAGCA  
+HWI-EAS443:3:71:1215:413#0/1  
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GGTCCAGTATCGTCTAATGGAGCAAATGGAGTAAAAGGAT  
+HWI-EAS443:3:71:1420:545#0/1  
ababaab\_ab`b\_\_ba\_a`a\_aa\_\_aaaa\_a\_\_aaba\_^  
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ATCCTTTTACTCCATTTGCTCCATTAGACGATACTGGACC  
+HWI-EAS443:3:71:1600:1643#0/1  
aaa`a`bb`\_]aaaba`T¥aaaa\_`a`a`]^`PLW]¥UZ  
@HWI-EAS443:3:71:1674:1343#0/1  
AAGGATTTTCATTCAAATACGGCAATGGTGTGGATAGG  
+HWI-EAS443:3:71:1674:1343#0/1  
abbba\_aaa¥`aa\_aaTaa^aa`][`a`PaV^a\_[FV]\_\_  
@HWI-EAS443:3:71:212:1294#0/1  
ATTCTGAAGATCTTGTATGAGGCCTGTCCATCATTGGTC

+HWI-EAS443:3:71:212:1294#0/1  
aa[a]]PDM^\_\_\_¥\_W[\_[\_YT\_^T[Z`\_^TWS[XWUTT^  
@HWI-EAS443:3:71:644:50#0/1  
AAACACCATTGCCGATTTGAATGAAAATCCTTTTACTCC  
+HWI-EAS443:3:71:644:50#0/1  
`baaa`aaaaa\_a^a`aaa\_\_`a`\_\_aZ[````]`^V  
@HWI-EAS443:3:71:911:1827#0/1  
GAACAAATTACTTGTCAATGGTAAATGGCAACTCAGCACC  
+HWI-EAS443:3:71:911:1827#0/1  
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+HWI-EAS443:3:72:1353:2029#0/1  
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@HWI-EAS443:3:72:204:492#0/1  
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+HWI-EAS443:3:72:204:492#0/1  
YS`]Xa``]a]]X¥ZZ^^\_W^ab¥^`ab^S\_aa```X[ZG  
@HWI-EAS443:3:72:221:918#0/1  
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+HWI-EAS443:3:72:221:918#0/1  
a¥ab``[aaa`\_b\_Q\_a`¥Vaaa\_[\_aZ^\_]aX`a\_a`W]  
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GGAGTTTTTTGAACAAATTACTTGTCAATGGTAAATGGCA  
+HWI-EAS443:3:72:398:1181#0/1  
aaa`\_aaaa`\_`aaa`a`aaa`^`a`^`XLY\_\_]¥¥\_\_  
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AACAAATTACTTGTCAATGGTAAATGGCAACTCAGCACCG  
+HWI-EAS443:3:72:547:725#0/1  
aaaaaaaaabaaa\_aa\_aa\_]aa¥\_\_`aaa`\_a`^`^`\_\_\_\_  
@HWI-EAS443:3:72:654:1498#0/1  
GTTTTTTGAACAAATTACTTGTCAATGGTAAATGGCAACT  
+HWI-EAS443:3:72:654:1498#0/1  
a\_aa`````^a`¥Xaaaaaaaa^`a`aa^]`aa^\_\_\_a`\_]`  
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+HWI-EAS443:3:72:708:871#0/1  
aa`]`\_¥``aaa`\_`\_a`a``aa`a``\_\_aa\_]V]\_]\_\_\_\_  
@HWI-EAS443:3:72:773:612#0/1  
GGAGTTTTTTGAACAAATTACTTGTCAATGGTAAATGGCA  
+HWI-EAS443:3:72:773:612#0/1  
]ba`Y[Z`]`])`[^]Y]\_`aa]Y\_YM^aaQ`¥`]MMW`  
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+HWI-EAS443:3:72:865:597#0/1  
aaaabbbb`abab`\_aab`a^aa``aaaa\_aa`aaa\_a`  
@HWI-EAS443:3:72:955:1698#0/1  
CACCATTGCCGATTTGAATGAAAATCCTTTTACTCCATT  
+HWI-EAS443:3:72:955:1698#0/1  
abbaa\_S\_abb\_`aaa`aa``aaaa`aaaaa`a^Yaa[

@HWI-EAS443:3:72:997:22#0/1  
TGAAAATCCTTTTACTCCATTTGCTCCATTAGACGATACT  
+HWI-EAS443:3:72:997:22#0/1  
aa\_aaaa\_\_bbbaaUb`a`aaaa\_aZU\_a\_a`a]a^^\_V\_  
@HWI-EAS443:3:73:1013:1380#0/1  
TGGGCTATATACAGTAAAGACAACAGTATAAGAATCGGTT  
+HWI-EAS443:3:73:1013:1380#0/1  
aa][`babbbb`a``abaaaaa`aa]aaaaaa\_]`a]]  
@HWI-EAS443:3:73:1160:787#0/1  
ATCTTGATGAGGCCTGTCCATCACTTGGTCCATCGGTCA  
+HWI-EAS443:3:73:1160:787#0/1  
ababba\_aaaaa`\_\_\_\_a\_a\_a`aa`aaaaZ^)`¥\_\_]]\_  
@HWI-EAS443:3:73:1220:1332#0/1  
TGAAAATCCTTTTACTCCATTTGCTCCATTAGACGATACT  
+HWI-EAS443:3:73:1220:1332#0/1  
aaYa```aaaaa\_\_a`a`^a`\_\_aa^^`a]`\_^`UU  
@HWI-EAS443:3:73:1624:1468#0/1  
CAAATTACTTGTCAATGGTAAATGGCAACTCAGCACCGTC  
+HWI-EAS443:3:73:1624:1468#0/1  
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+HWI-EAS443:3:73:1749:720#0/1  
aaaaabaaaa^aaaa`\_a`a\_]a`a`\_X\_\_\_\_`\_^Ua`X\_  
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+HWI-EAS443:3:73:295:286#0/1  
abaa`baa`a\_a][^W\_a^^\_[`a`^`X\_\_^^^\_\_XYWOF  
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+HWI-EAS443:3:73:335:1645#0/1  
]bba`ab¥a`^b`aba`b\_aa^aaa`aa]``XQR^\_a[a\_  
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AGTTTTTTGAACAAATTACTTGTCAATGGTAAATGGCAAC  
+HWI-EAS443:3:73:369:1028#0/1  
X\_`bbbbbabbbbabbbbaaab\_baZab[^baa``ab`aa  
@HWI-EAS443:3:73:714:1432#0/1  
GGAGTTTTTTGAACAAATTACTTGTCAATGGTAAATGGCA  
+HWI-EAS443:3:73:714:1432#0/1  
``^`Y`aV]]^aba^^Ya`^a]Ya\_`UT^a\_X¥[`UYT\_`  
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ATTTGAATGAAAATCCTTTTACTCCATTTGCTCCATTAGA  
+HWI-EAS443:3:73:806:1741#0/1  
^Y]^^¥aa\_\_SV]aN¥aaaYIU]b¥aa`S^^^Y\_U¥`P^  
@HWI-EAS443:3:73:950:1587#0/1  
GGAGTTTTTTGAACAAATTACTTGTCAATGGTAAATGGCA  
+HWI-EAS443:3:73:950:1587#0/1  
aa^b]aaaaaaaaabaaaaaaaa\_]R\_aaaaaSaaa^a\_\_a  
@HWI-EAS443:3:74:1195:1920#0/1  
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+HWI-EAS443:3:74:1195:1920#0/1  
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+HWI-EAS443:3:74:1445:536#0/1  
]YWaX[aaaabaaaaaaa^a\_aa^Z\_S\_a`^`]][]W^  
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GTCCAGTATCGTCTAATGGAGCAAATGGAGTAAAAGGATT  
+HWI-EAS443:3:74:154:601#0/1  
a¥\_a^`[a\_\_`\_\_`^]\_\_[Y^`]Y`\_V^H\_]`\_]\_TZ]  
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+HWI-EAS443:3:74:198:159#0/1  
a`Yaa`a```Y][\_a\_^`Z^`¥UZ`T¥¥^^UZZ^MZ[]X]  
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AAATTACTTGTCAATGGTAAATGGCAACTCAGCACCGTCT  
+HWI-EAS443:3:74:28:238#0/1  
[`¥¥^Ybb`a`baXbaa`\_JZ[\_¥aa`\_aaaa\_\_`Z\_\_  
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GAGTTTTTTGAACAAATTACTTGTCAATGGTAAATGGCAA  
+HWI-EAS443:3:74:615:1346#0/1  
aYa¥Z`^b\_\_][\_a][Z\_]a^aY^Y[¥`¥Ua`]^\_Z`a`  
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GAGTTTTTTGAACAAATTACTTGTCAATGGTAAATGGCAA  
+HWI-EAS443:3:74:663:274#0/1  
aZ`aba[Yaa`aaa````b\_^Va``X`a]`YY`\_^UMT`\_  
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CATTGCCGTATTTGAATGAAAATCCTTTTACTCCATTTGC  
+HWI-EAS443:3:74:861:1084#0/1  
abbaaab]`abbbba\_a\_aaba`^baaab`aaaabaaaa  
@HWI-EAS443:3:75:1378:110#0/1  
CTGAAGATCTTGTATGAGGCCTGTCCATCACTTGGTCCAT  
+HWI-EAS443:3:75:1378:110#0/1  
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GGACCAAGTGATGGACAGGCCTCATACAAGATCTTCAGAA  
+HWI-EAS443:3:75:1577:878#0/1  
ab`¥^[a`aaa`b`]aaaaYa¥aaa[`ab[L[\_[\_a`\_  
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+HWI-EAS443:3:75:159:1039#0/1  
^^aba````^]`[`aa]aa`¥^`^]\_`Y^a\_\_^`[\_a`\_^  
@HWI-EAS443:3:75:581:1738#0/1  
GGAGTTTTTTGAACAAATTACTTGTCAATGGTAAATGGCA  
+HWI-EAS443:3:75:581:1738#0/1  
`\_bb`aabbabbbb^babbaaababbaba^[baa``\_aa  
@HWI-EAS443:3:75:609:1903#0/1  
AATCCTTTTACTCCATTTGCTCCATTAGACGATACTGGAC  
+HWI-EAS443:3:75:609:1903#0/1  
``^baaaa\_b\_`aaa`\_\_`\_`aaa^\_\_\_a`\_]`¥S]\_\_

@HWI-EAS443:3:75:698:42#0/1  
GGCCTGTCCATCACTTGGTCCATCGGTCATTACAGTAAAG  
+HWI-EAS443:3:75:698:42#0/1  
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@HWI-EAS443:3:75:804:950#0/1  
CAAACACATCCCCCTTGAACCGATTCTTATACTGTTGTC  
+HWI-EAS443:3:75:804:950#0/1  
P\_Vab¥\_V\_¥b`LN\_^X[ZMZZaU]bXba`a¥abb¥ab[U  
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GAGTTTTTTGAACAAATTACTTGTCAATGGTAAATGGCAA  
+HWI-EAS443:3:75:891:27#0/1  
^Z`^¥¥^ba¥¥H[¥Z]ab[0]J^Q¥¥I[aaY`^XZ`¥BBB  
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+HWI-EAS443:3:76:1465:322#0/1  
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+HWI-EAS443:3:76:1489:517#0/1  
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+HWI-EAS443:3:76:1598:1567#0/1  
a`\_]Uaaa^^`¥S^\_\_\_\_^`a]]U\_] [YW[\_0]ZLUR  
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+HWI-EAS443:3:76:1628:414#0/1  
a\_aaaa\_a^``\_\_`\_]a\_`^\_]X\_¥^X^]ZZZ]W\_`W^W^  
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+HWI-EAS443:3:76:191:1721#0/1  
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@HWI-EAS443:3:76:197:1134#0/1  
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+HWI-EAS443:3:76:197:1134#0/1  
ababbbbaaaaa`aa`aab`bbaa``\_aaaa\_\_¥U[]\_Z  
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+HWI-EAS443:3:76:527:459#0/1  
`S[^SWV[^^[TRPX^WZWX^WWGLPWXOXWXXZXXXXX  
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+HWI-EAS443:3:76:527:876#0/1  
abaabbbbaaaa`baaaaaXaY\_aa]\_`\_]`a`X^[Z\_\_\_\_Z  
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+HWI-EAS443:3:76:654:1918#0/1  
a`\_VX¥\_U¥aa]Y\_VV\_aa]X^]]QOZ`[W[^Wa``V¥]V  
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+HWI-EAS443:3:76:777:772#0/1  
abbbbbbbababbbbababbaaaaaaaaa`\_`aaU]`\_`\_]  
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+HWI-EAS443:3:76:988:1748#0/1  
aX]^\_WPX\_Y]]^V^W]^]]VRZZ^M^MKMZOFNZZ]XRZ  
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+HWI-EAS443:3:77:1168:859#0/1  
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GTTTTTTGAACAAATTACTTGTCAATGGTAAATGGCAACT  
+HWI-EAS443:3:77:1529:373#0/1  
a`[aa¥^`^¥[````Z`\_a]a]¥^[\_]YO\_^S[XTT\_^[[  
@HWI-EAS443:3:77:236:1985#0/1  
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+HWI-EAS443:3:77:236:1985#0/1  
ab\_S\_aaaa`a\_a[^ZX\_a\_]``\_[a]\_a^¥^]^[\_\_Z^  
@HWI-EAS443:3:77:267:700#0/1  
GGAGTTTTTTGAACAAATTACTTGTCAATGGTAAATGGCA  
+HWI-EAS443:3:77:267:700#0/1  
a`aa]`aaaaa\_```aa[\_a`a`Z`\_^`^]S^^Y]\_]\_  
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+HWI-EAS443:3:77:329:1763#0/1  
a`a``Wab```ababaaaaa\_\_a\_``T^X¥]\_\_\_\_\_a`a`  
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+HWI-EAS443:3:77:826:1662#0/1  
aba``aabaaaaa`aa`a]\_\_a`a\_aa`^a\_Za`\_`\_a\_  
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+HWI-EAS443:3:77:900:355#0/1  
a`aaaaaa[a\_`a`a`\_`a`]\_aa\_`^`X\_\_^\_\_`^Y\_  
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+HWI-EAS443:3:77:989:1842#0/1  
¥^bVbbabb`bbbabbaababba`a`aababa`bbba]  
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+HWI-EAS443:3:78:1220:1178#0/1  
aUWDTZa\_RTPZRK[Y`S^[^[[W[]]¥UL]¥^W]]V\_]\_  
@HWI-EAS443:3:78:1246:287#0/1  
GAAAATCCTTTTACTCCATTTGCTCCATTAGACGATACTG  
+HWI-EAS443:3:78:1246:287#0/1  
a\_`a\_a\_``[`a¥W`U]`\_ZZWUUX\_a^]Y`X]YZSBBB  
@HWI-EAS443:3:78:170:524#0/1  
GCTATATACAGTAAAGACAACAGTATAAGAATCGGTTCCA  
+HWI-EAS443:3:78:170:524#0/1  
`aa`^ZW^`a\_¥aY]````Z¥\_`UY`\_\_`\_`X][LUBBB



@HWI-EAS443:3:78:1786:859#0/1  
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+HWI-EAS443:3:78:1786:859#0/1  
abbbbababbbbaa^`bbbaaaaaaaaaa^aaaaaaaa`a  
@HWI-EAS443:3:79:100:1608#0/1  
AAACACCATTGCCGTATTTGAATGAAAATCCTTTTACTCC  
+HWI-EAS443:3:79:100:1608#0/1  
]\_]\_T\_a]U[\_`^UOY¥]XOXYYUUPXWZ\_]XY¥Z`\_Z\_^  
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+HWI-EAS443:3:79:1084:1772#0/1  
a\_a[`b[a^`[babab\_ba^a[a\_ab\_`aaOba\_\_\_\_[aa  
@HWI-EAS443:3:79:124:380#0/1  
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+HWI-EAS443:3:79:124:380#0/1  
\_`\_bbbaabaababb]aaab\_a^abaXaaa```a]QX  
@HWI-EAS443:3:79:127:1511#0/1  
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+HWI-EAS443:3:79:127:1511#0/1  
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¥L^^V]HX`^`T^Vb][ab]VZ`b`SYbaIS\_TYIJOHH\_  
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+HWI-EAS443:3:79:932:1571#0/1  
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a`aaaZaa`\_a`a^aa^\_a\_`^^R``^^YX^Y]TFZ  
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VYYaa`^`aV\_\_b`Y`Y`Z\_Ya`]PZ\_a`Q0^]]T^FWaa\_  
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+HWI-EAS443:3:80:808:898#0/1  
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+HWI-EAS443:3:81:1148:236#0/1  
aa\_\_`^`aaaa`a[Xa`^`a`aaaaZ`a`^`\_Z`^`a\_Y\_`]  
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ab]bWaaaa`Z`aXZ^`b¥^^`a[\_\_\_aa`]aa`ZYT]\_  
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+HWI-EAS443:3:82:1129:1303#0/1  
ab\_¥bbabbb\_baaba¥Ub\_^aaaYab^\_a`]``a`R`^  
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^a\_b```bbbb`^```¥\_]`abbbb``aa`bbb[`aX`X  
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+HWI-EAS443:3:83:486:1832#0/1  
`Ya^U¥]a^a\_Z`]a\_]Z\_X¥\_]\_]`\_]XY^aa`T[¥¥¥  
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abbbabbbbbbba\_bbbba^Xbab`aaUbbab`a`aba``¥`  
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]\_\_aa]abba`aaba\_`b\_a`]aaPY\_\_`VT^]]¥`S``  
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a]^a`X`\_TPa^aT^ZQ^`bab¥]Vaa\_a`SG¥``\_^a\_S  
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+HWI-EAS443:3:87:199:426#0/1  
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+HWI-EAS443:3:87:220:1065#0/1  
^aa`^¥]¥\_^^\_a¥^\_aVa`a]`^`Y`X]aaa^aa`a^¥^

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abbaa`¥b`[aabb\_`aabbq]`Vaa]¥b[[^aa`R`a\_`  
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+HWI-EAS443:3:87:433:1014#0/1  
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+HWI-EAS443:3:87:500:454#0/1  
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¥bab`¥^baaa¥`baab^a\_aaba^`a^\_aaa]\_\_T¥aa\_  
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+HWI-EAS443:3:87:688:732#0/1  
aa`^¥a^`b`¥a\_\_a]`bbbabbababaabbbbb^Ya  
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+HWI-EAS443:3:87:707:1469#0/1  
ab^aabab^^aaa`aabaaa`\_a`aaa`X^¥aaa`a  
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+HWI-EAS443:3:87:739:1817#0/1  
a\_YP[^a^`¥[\_a`aaa\_a[a]`]a\_Ua`\_^]]\_\_a]]  
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+HWI-EAS443:3:88:263:1772#0/1  
^W^U¥VYXaa¥Za]UZ\_T\_[H[SQX`WQSQYW^\_VFWU[W  
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CCTATCCAAACACCATTGCCGATTTGAATGAAAATCCTT

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\_`^bb`a`¥a[aba\_¥[^^b^R^^`\_`aaaab`\_`baa^Y\_a  
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+HWI-EAS443:3:89:1040:1855#0/1  
QZZa\_\_¥¥OM\_^\_TPWaZTZ¥FG\_\_GXR]]]aa]VVa[YG  
@HWI-EAS443:3:89:117:837#0/1  
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+HWI-EAS443:3:89:117:837#0/1  
abaaba\_ababaa`aa\_``aaa¥a\_\_aaaZ`\_`^a\_a^^^  
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+HWI-EAS443:3:89:1255:923#0/1  
aaabbbbaababaabaabbbbaaa`aabba`\_a\_aabbbbaa  
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+HWI-EAS443:3:89:1277:911#0/1  
`^T\_G\_bbb`¥^]`\_a``aaaabaa`ba`]baa`]Z]^  
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GGAGTTTTTTGAACAAATTACTTGTCAATGGTAAATGGCA  
+HWI-EAS443:3:89:426:190#0/1  
aZHa^`\_aa`a¥V]`\_`a``^a\_a^`^]\_\_\_W\_\_\_Z^ZV\_  
@HWI-EAS443:3:89:627:1442#0/1  
TGAGGCCTGTCCATCACTTGGTCCATCGGTCATTACAGTA  
+HWI-EAS443:3:89:627:1442#0/1  
aa]a¥ZV]^LT^¥W^`^]Z]`S`]^]S[XYYWYRZPZRN^  
@HWI-EAS443:3:89:657:1647#0/1  
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+HWI-EAS443:3:89:657:1647#0/1  
`\_N`bWSXW]`a\_aV`¥\_K`aVZYG¥[a¥\_]\_BBBBBBBB  
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CGTCTAATGGAGCAAATGGAGTAAAAGGATTTTCATTCAA  
+HWI-EAS443:3:89:73:2031#0/1  
``]bb`bbbbababaZa`a\_b`abbabbaaba`baab`  
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+HWI-EAS443:3:89:867:1697#0/1  
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+HWI-EAS443:3:89:883:397#0/1  
\_aZ`^aababb^`b¥\_aaa¥a\_aXZaba\_``abaabaab  
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GTTTTTTGAACAAATTACTTGTCAATGGTAAATGGCAACT  
+HWI-EAS443:3:89:971:851#0/1  
a^\_Z^¥\_YV¥ZZNY¥V[^a[YP\_U¥[\_YMXQU^WT¥^UX  
@HWI-EAS443:3:8:1040:1910#0/1  
GAGTTTTTTGAACAAATTACTTGTCAATGGTAAATGGCAA  
+HWI-EAS443:3:8:1040:1910#0/1  
aab[`aa\_aa`a\_aaa`a`aaaaX\_\_`aa`]^^^Z`\_V\_\_



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U\_a[¥bP^¥PPXbbb\_X^^a`YYb`¥H`[SWZb`aYTY  
@HWI-EAS443:3:8:1145:770#0/1  
AAAGGATTTTCATTCAAATACGGCAATGGTGTGGATAG  
+HWI-EAS443:3:8:1145:770#0/1  
abbbba`abbaabaZa`\_aa]ba]`\_\_aa[a]a`aaZ]\_^  
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GAGTTTTTTGAACAAATTACTTGTCAATGGTAAATGGCAA  
+HWI-EAS443:3:8:1310:877#0/1  
Y¥a^^aZ^aS¥Y[a`a^[\`V`a\_XWU\_aa`LUaR[GV[Z  
@HWI-EAS443:3:8:1409:1296#0/1  
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+HWI-EAS443:3:8:1409:1296#0/1  
]^[\_aa]\_SVWSW`VW^Yb\_Xab`[a`ab`XRS]N[`JS^  
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GTTTTTTGAACAAATTACTTGTCAATGGTAAATGGCAACT  
+HWI-EAS443:3:8:219:695#0/1  
a\_Y\_aa^[Q\_a\_K¥`^\_a`[X[\_`Ya\_[S]\_YZ]^)^XXU  
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ATGAAAATCCTTTTACTCCATTTGCTCCATTAGACGATAC  
+HWI-EAS443:3:8:426:1435#0/1  
¥X`aa^^W\_Yaa\_^aaaa`a^a]a`\_\_`\_\_\_\_ZTZ\_¥R][  
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+HWI-EAS443:3:8:432:1822#0/1  
a]^Y]^`^^]^]\_\_\_\_^[[SWPSZ]MHMXZ]UBBBBBBB  
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+HWI-EAS443:3:8:440:307#0/1  
`b`ba^b¥bba\_^a^aa`W\_T\_\_ba^\_a`aV``\_`a¥TKP  
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GGATTTTCATTCAAATACGGCAATGGTGTGGATAGGGA  
+HWI-EAS443:3:8:465:742#0/1  
`[NY[^\_Y]¥`[]X[a\_Y¥`XUVYXRT^[^\_WLUX¥XXX  
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+HWI-EAS443:3:8:502:1260#0/1  
aaY`]^`a`UZVT^a`Z`^^\_a\_¥\_\_`^Y[JRTXWY\_^`  
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+HWI-EAS443:3:8:874:172#0/1  
abbaa^bbb\_a`\_`abaa`\_`aaX`^a^\_\_^a\_¥a`[YYa  
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GAAAATCCTTTTACTCCATTTGCTCCATTAGACGATACTG  
+HWI-EAS443:3:90:1064:1631#0/1  
aabbabaabaaaa[a`aaaa`^a`\_`aaa`a\_a\_¥TT^  
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+HWI-EAS443:3:90:1175:228#0/1  
¥b]^a`bbabYO\_aLbbbaa`bba^`aL^aaba¥a^a^Pa  
@HWI-EAS443:3:90:512:1537#0/1  
GGATGGGCTATATACAGTAAAGACAACAGTATAAGAATCG  
+HWI-EAS443:3:90:512:1537#0/1  
a^X``\_\_a`a`aa]^`\_]``[X\_^a\_\_\_\_`]\_\_\_\_^^Z`^^Z  
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AGGATTTTCATTCAAATACGGCAATGGTGTGGATAGGG  
+HWI-EAS443:3:90:616:634#0/1  
ab\_QTX\_VaZ^a`[\_U^X[aa\_^¥`\_[H[]^^[aVRX\_\_[\_  
@HWI-EAS443:3:90:61:154#0/1  
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+HWI-EAS443:3:90:61:154#0/1  
`aaa^`aaaa`aa\_``\_\_aXW`\_\_]]^W]^]]YY^WWW  
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+HWI-EAS443:3:90:657:1149#0/1  
a\_^\_ZN]aT\_a]VY[`]\_\_Xa\_]`¥^aPLWOU^]¥^aW]]  
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@HWI-EAS443:3:90:775:1845#0/1  
GACCGATGGACCAAGTGATGGACAGGCCTCATACAAGATC  
+HWI-EAS443:3:90:775:1845#0/1  
aaaaaaaaa`aaa`aTaa\_a\_`aa\_¥`\_\_aa\_a[`a\_`]^  
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GTTTTTTGAACAAATTACTTGTCAATGGTAAATGGCAACT  
+HWI-EAS443:3:90:840:263#0/1  
aY¥Y`b¥^[]aUYW¥W\_N¥`^GQYY¥a^R\_[UUXRZ]¥UP  
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+HWI-EAS443:3:90:939:370#0/1  
a`\_a`R^`^`S^`bZb\_VZ\_¥\_a^¥baYb`aRDZX^P]  
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+HWI-EAS443:3:91:1086:572#0/1  
XXG^bbabbababbabaaaaabaa`Rbb\_Ya\_]a^Paaa\_  
@HWI-EAS443:3:91:1223:1305#0/1  
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+HWI-EAS443:3:91:1223:1305#0/1  
]baabbab`bab`b\_aaaaa[b`\_baa[]`ba`^`aaVS  
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ATAAGAATCGGTTCCAAGGGGGATGTGTTTGTGCATAAGGG  
+HWI-EAS443:3:91:1641:1888#0/1  
``\_aba]a\_IZ`^Y`¥]Z][`XT^SZHLW\_PHHQW]VYB  
@HWI-EAS443:3:91:284:1132#0/1  
AGGATTTTCATTCAAATACGGCAATGGTGTGGATAGGG  
+HWI-EAS443:3:91:284:1132#0/1  
a`a[\_````aa```````\_``````\_^^^\_]X\_[^`\_\_[^]]

@HWI-EAS443:3:91:319:149#0/1  
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+HWI-EAS443:3:91:319:149#0/1  
aababbb`bb`babbaaa\_K\_aaa`b`\_\_aa^`YU`\_]  
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+HWI-EAS443:3:91:898:1261#0/1  
TT\_\_VaZa`Y`\_a`Z\_b\_^a`a`\_SS\_W`XbbX^V^Iaa  
@HWI-EAS443:3:92:1191:771#0/1  
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+HWI-EAS443:3:92:1191:771#0/1  
a`R]Z``a[aaa^aaa\_\_a`b]]a\_[^aH\$``Ua]]a\_W  
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+HWI-EAS443:3:92:1274:408#0/1  
abaaabbaa`a`^`¥UU\_YVX`^`¥^^^\_`a[Y[PY]¥\_[-  
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+HWI-EAS443:3:92:1444:51#0/1  
abaaba\_aba`\_\_aba]a`\_\_aa\_aa¥a^`^¥a]^\_ZZ]  
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+HWI-EAS443:3:92:1527:464#0/1  
\_RI¥]\_ZMSHX`Q\_P\_\_\_aNaXPRP`YZGZ]ZX[]`UG^\_  
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TGGAGTAAAAGGATTTTCATTCAAATACGGCAATGGTGTT  
+HWI-EAS443:3:92:528:1546#0/1  
aaa`a]aab`[\_`a\_a`a^`\_`\_\_^^`\_^\_`S\_W]  
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+HWI-EAS443:3:92:592:1243#0/1  
abaaaaaaaa]a\_aa\_XOX\_YHW^Va`^W`\_XW\_] ]TOPTO  
@HWI-EAS443:3:92:901:1415#0/1  
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+HWI-EAS443:3:92:901:1415#0/1  
aabb`bb`a^ba[\_`aa`Y`Raaaaa]bb^`U`aaa[XY  
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+HWI-EAS443:3:92:904:918#0/1  
aaa¥baa\_¥a]aa`a][`a\_]\_\_S\_\_`aa`aM¥^``]\_`  
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GGTCCAGTATCGTCTAATGGAGCAAATGGAGTAAAAGGAT  
+HWI-EAS443:3:92:915:1472#0/1  
aJG[^[\_`[¥^TIP]YTVYYY¥VW¥[MDUS]T``ZVZQQT  
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GAACAAATTACTTGTCAATGGTAAATGGCAACTCAGCACCC

+HWI-EAS443:3:92:968:738#0/1  
a^a\_a`ab`ba\_a\_\_^X\_a\_X\_\_X^\_V\_\_XYW\_ZR^Z^  
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+HWI-EAS443:3:92:986:1229#0/1  
¥`b`b¥bba¥abbbba`\_b]b^b`bb\_a\_]Z\_baba]^`  
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+HWI-EAS443:3:93:1036:1090#0/1  
aaa\_Z\_baa\_aa`a\_b^\_aaaa]aY`\_^^aaa``aa````  
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+HWI-EAS443:3:93:1147:919#0/1  
aU`a`]a\_\_\_\_\_^`\_`^aaaY]\_¥`\_^[[^]YY^Y[¥  
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+HWI-EAS443:3:93:1435:165#0/1  
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aa`a`aaa^`a`aaUaaa^`]`a`^]a\_]a\_^^YU^¥X  
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+HWI-EAS443:3:93:61:1602#0/1  
a``[¥X]b\_\_`Q\_^[]¥VR\_X]Z\_VYZX`\_a][¥Z\_UBBB  
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GGATGGGCTATATACAGTAAAGACAACAGTATAAGAATCG  
+HWI-EAS443:3:93:626:1300#0/1  
aaaaa\_aa`a`\_a\_¥\_¥¥``\_`^^a`\_`X`\_\_\_\_^]XW][  
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+HWI-EAS443:3:94:262:903#0/1  
ab`b^ab\_¥b`b¥^Tbb`b^]bbaba]`¥`baba`aaaYa  
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+HWI-EAS443:3:94:274:116#0/1  
aab\_aaaaaa^a]```a`\_]aab\_^^^`a`Z]]^^X^¥^\_  
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+HWI-EAS443:3:94:328:1014#0/1  
abbaaabbbab`bbbaa\_aabaaaaaaaaabb`baaaaa  
@HWI-EAS443:3:94:350:1882#0/1  
CGATTCTTATACTGTTGTCTTTACTGTATATAGCCCATCC  
+HWI-EAS443:3:94:350:1882#0/1  
abb`baaabaaaa\_a`Ya`aab`a¥]baa\_a\_¥\_\_a]\_a

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+HWI-EAS443:3:94:524:686#0/1  
^abbbbaa\_`Y`a^ab`\_a^`¥]`\_aa[aa`a`^`\_W  
@HWI-EAS443:3:95:1073:1240#0/1  
GCCGTATTTGAATGAAAATCCTTTTACTCCATTTGCTCCA  
+HWI-EAS443:3:95:1073:1240#0/1  
a`^Xaabab`aaa^aaaa`\_a`aaa^a¥\_``aaa`\_¥W\_  
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GGCCTGTCCATCACTTGGTCCATCGGTCATTACAGTAAAG  
+HWI-EAS443:3:95:108:1825#0/1  
aaaabbbbbbbaa`a^a\_aab^aa^\_ba\_`^Ua]0^ba\_  
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+HWI-EAS443:3:95:137:895#0/1  
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+HWI-EAS443:3:95:1517:567#0/1  
abab`¥b`Pa\_G¥¥P]]`[\_^Z^`ZaPOXZVJM\_[XPZ]  
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+HWI-EAS443:3:95:28:548#0/1  
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+HWI-EAS443:3:95:528:160#0/1  
aababba`aaM]¥\_\_^`\_\_aHXa]]W]]YMS¥^]Y[]W  
@HWI-EAS443:3:95:597:282#0/1  
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+HWI-EAS443:3:95:597:282#0/1  
abaaaa`abbVaaabbaPV\_a`a`^aaaa`a\_¥a¥VTVW^  
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+HWI-EAS443:3:95:741:998#0/1  
ababa^aaaabba`aaba`aba`aaabaaa`^\_aa`^a\_  
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+HWI-EAS443:3:95:948:643#0/1  
ab`^b`bbbabbbaaaaa[baaaaababa`a`YaabYa`a  
@HWI-EAS443:3:95:975:151#0/1  
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+HWI-EAS443:3:95:975:151#0/1  
¥bbabaabbabbab^bbbaa`\_aa\_aaaa\_a]aaba```  
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GGAGTTTTTTGAACAAATTACTTGTCAATGGTAAATGGCA  
+HWI-EAS443:3:96:1240:357#0/1  
a`[\_H`\_aa`Y\_¥\_]S\_^YM`\_^`Y][`^\_SUVPY\_[Z¥  
@HWI-EAS443:3:96:212:313#0/1  
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+HWI-EAS443:3:96:212:313#0/1  
aXa`a`¥\_]\_\_`a\_]\_^\_Y]¥]^`[X^^]XYY[Z[[]  
@HWI-EAS443:3:96:223:39#0/1  
GGAGTTTTTTGAACAAATTACTTGTCAATGGTAAATGGCA  
+HWI-EAS443:3:96:223:39#0/1  
a`UYNZ\_PW]^FJ^WPY\_\_XRP¥`ZSGGNWMMUUUBBBBB  
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+HWI-EAS443:3:96:524:511#0/1  
Y^bbZ¥`aaba^^^W¥\_aa¥]X`a]a^\_^]aaa`aab¥\_  
@HWI-EAS443:3:96:583:833#0/1  
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+HWI-EAS443:3:96:583:833#0/1  
W]U]Z^b¥S\_¥Z\_T^`\_\_¥a`\_\_XZQ^^Y[¥`¥a^aa\_V¥  
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+HWI-EAS443:3:96:741:188#0/1  
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CAGTATCGTCTAATGGAGCAAATGGAGTAAAAGGATTTTC  
+HWI-EAS443:3:97:1009:1018#0/1  
ab\_a^bbb]a`^`b\_b`bY\_]`a``\_a¥ababab`\_aa¥`  
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GTAAAGACAACAGTATAAGAATCGGTTCCAAGGGGGATGT  
+HWI-EAS443:3:97:101:1361#0/1  
SX\_PTY\_¥S¥ab`Z\_HW\_bVaabRRKYaLVD]HR¥[OF]T  
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+HWI-EAS443:3:97:148:1787#0/1  
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GTTTTTTGAACAAATTACTTGTCAATGGTAAATGGCAACT  
+HWI-EAS443:3:97:603:1130#0/1  
a\_aaaaaa`\_`a`\_a\_\_aaa^````\_^Ya`\_\_^XZ`^Z`  
@HWI-EAS443:3:97:758:436#0/1  
AGTTTTTTGAACAAATTACTTGTCAATGGTAAATGGCAAC  
+HWI-EAS443:3:97:758:436#0/1  
¥aRab\_bbb]a¥V`ab\_Y`ba^^^[abbaGZ`WYYX`\_\_Y  
@HWI-EAS443:3:97:817:1623#0/1  
CACCATTGCCGATTTGAATGAAAATCCTTTTACTCCATT  
+HWI-EAS443:3:97:817:1623#0/1  
a\_X¥Z[Y¥[QU\_aa¥aa]RZa`\_\_[¥Y]a^YXa[`\_]\_`]

@HWI-EAS443:3:97:996:813#0/1  
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X\_`a`abbbaa`]^`^a`]^b[Zaabbaab]abZ[\_YXM  
@HWI-EAS443:3:98:1015:1612#0/1  
GGAGTAAAAGGATTTTCATTCAAATACGGCAATGGTGT  
+HWI-EAS443:3:98:1015:1612#0/1  
\_`WaZI]¥a`^]YS^bbab`ba]a`aaaa`\_]a`¥aSaa  
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GAGTTTTTTGAACAAATTACTTGTCAATGGTAAATGGCAA  
+HWI-EAS443:3:98:1101:938#0/1  
aaa^aaaaaaaa¥aa]aa`\_a\_a\_^[[aa]T\_]`\_^^^a]  
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+HWI-EAS443:3:98:1113:1739#0/1  
\_`b`babbaaababbbbab\_b`a`\_`aaaa`\_\_a`^^`b`  
@HWI-EAS443:3:98:37:73#0/1  
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+HWI-EAS443:3:98:37:73#0/1  
abbabb^[a\_a`aab^aY]^`^^`\_`\_`Y`\_UH^^\_V^W]  
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+HWI-EAS443:3:98:419:251#0/1  
aaYRQ` `[`aaab`\_`aaaa`aa\_Y\_a\_a^Y\_]\_a^\_\_Y`  
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+HWI-EAS443:3:98:506:290#0/1  
`[U]¥`¥^[¥XG]UW]^a`a`^`\_`\_`[Z`XG[bZ^a^X]  
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+HWI-EAS443:3:98:66:1882#0/1  
¥b^W`b`ab`a\_aa`bV\_]\_aaabTb`ZbaaYaU^H[\_U  
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+HWI-EAS443:3:98:744:1827#0/1  
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+HWI-EAS443:3:99:1125:848#0/1  
^a\_aabbbb`Ya¥`aaaa`\_aW`\_^abaaa\_]aS`aPTS  
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+HWI-EAS443:3:99:120:360#0/1  
aa¥a[aabaa`VSS\_]`[````]a^`YR[^[P^^¥VUVS\_  
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+HWI-EAS443:3:99:1514:1606#0/1  
abab`¥aa`NS``[Z`aa\_]a\_] [a\_UO¥[\_a]][^\_^^  
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TTCTGAAGATCTTGTATGAGGCCTGTCCATCACTTGGTCC

+HWI-EAS443:3:99:170:303#0/1  
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+HWI-EAS443:3:99:42:812#0/1  
\_b`abaa`a¥^`]b\_ba\_aa\_aaa`a\_TT\_aaa^\_`]  
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+HWI-EAS443:3:99:501:648#0/1  
a`bba[^abab`aa]bb[¥b]Q^XaI`b[W]aY¥^ZNZ^\_  
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`b`\_`Y`b`bb\_bbbbbbabU[]W\_W`W¥[Z^b`[^Z\_NH  
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+HWI-EAS443:3:99:643:828#0/1  
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ATTTGAATGAAAATCCTTTTACTCCATTTGCTCCATTAGA  
+HWI-EAS443:3:99:752:810#0/1  
0`a`[VMYP\_SRX[^Y^^LRba]a`]^a^\_VV^^a\_`^  
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+HWI-EAS443:3:9:1412:454#0/1  
¥`aabbaaaaabbababaa`abbaa`a\_aaabWb^`\_abb  
@HWI-EAS443:3:9:1693:1132#0/1  
CTTTTCTATTCTGAAGATCTTGTATGAGGCCTGTCCATCA  
+HWI-EAS443:3:9:1693:1132#0/1  
a\_bbb`baababbaaabaabbb`a`]aba][aa``^`aT\_  
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+HWI-EAS443:3:9:180:1224#0/1  
^`TZa`bTS¥aa[\_`a\_ab]Xa`aa[]XPLY¥^aZTVGa\_  
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+HWI-EAS443:3:9:277:959#0/1  
aU\_^S^`\_^^[XY\_]¥^^^\_^^X^Z^^]VX]^ZV]ZXX^  
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ATCTTGTATGAGGCCTGTCCATCACTTGGTCCATCGGTCA  
+HWI-EAS443:3:9:409:1906#0/1  
a\_aY\_aWa\_]aa\_a\_\_a]^`a^\_`a^Z\_^0`^`^^\_]V\_\_  
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+HWI-EAS443:3:9:632:1478#0/1  
a[^ab`Z\_X^^`]X][Q``aXXQ^\_N^VX[¥Z`[^X[\_GP  
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CAGTATAAGAATCGGTTCCAAGGGGGATGTGTTTGTGATA  
+HWI-EAS443:3:9:655:1668#0/1  
aaa\_b\_b`Ybb`a`]VWX``\_`^`\_\_`XW\_Z^Z\_^]TWW]\_



@HWI-EAS443:3:9:704:398#0/1  
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aabb`ababaab\_ab^b[b``a`aab^b\_``abba^]aaa  
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+HWI-EAS443:3:30:1308:452#0/1  
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@HWI-EAS443:3:92:607:922#0/1  
ATTCCGACTGATTTGACTATCTTTCCCTTTTCTATTCTGA  
+HWI-EAS443:3:92:607:922#0/1  
ab`^TYb¥[\_HaY]\_YYa[``Ya[`K]aW^NGXM¥ZW¥V^  
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+HWI-EAS443:3:37:595:537#0/1  
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+HWI-EAS443:3:79:1716:1818#0/1  
a]b`XRHQ^IPaY\_WYTb^]aa^P`[\_U¥PW]WGZS\_H`\_`  
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+HWI-EAS443:3:24:895:1208#0/1  
ab[aaa]`bab\_aaa^`a]aaa^^`aaa\_`aaaa`````  
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+HWI-EAS443:3:76:1784:430#0/1  
aaaaaa[DYaZa`a\_\_a`\_`a``\_``\_``\_``^]\_\_]^`^W`  
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+HWI-EAS443:3:39:400:363#0/1  
^aa```aa`abaaaaba```a]aa`[T]aT[T\_a\_\_`X]^`  
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+HWI-EAS443:3:48:126:1806#0/1  
¥¥L\_W\_^YVI\_a`^ZYR^^`UZ]\_Za\_`^a\_\_]W[\_a`[  
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GQbbbb`a^¥^aa¥bbbaab\_aabbb\_bba`abbbb]b`b  
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+HWI-EAS443:3:57:1525:1269#0/1  
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+HWI-EAS443:3:71:1177:939#0/1  
^\_[¥a¥bbaabbaaa[abb`aaaa\_`aaaaaa\_`^aa\_a  
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^\_^¥^a¥Y\_b¥aaV[\_¥bV\_aa]ab\_ba\_aa¥aaaa`aa  
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+HWI-EAS443:3:85:334:1823#0/1  
^\_`aaaaaa^aa`]\_¥`\_\_aaa\_¥`aaa``]a\_a^^`\_  
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aa^^`\_aba`abaJaaaaaa\_aa`^`\_a\_a`\_a\_a```  
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a\_\_^X^`^¥^\_^]\_XZ¥\_S^^^XS]]^XXXZTXWZXZZ  
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GACTGATTTGACTATCTTCCCTTTTCTATTCTGAAGATC  
+HWI-EAS443:3:12:1594:1178#0/1  
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+HWI-EAS443:3:13:1014:641#0/1  
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+HWI-EAS443:3:13:1701:1278#0/1  
ab\_aa\_a\_a`X^\_a^`\_`a¥`\_`a¥`\_`^\_a`\_O]UW`^X`  
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+HWI-EAS443:3:17:620:1631#0/1  
¥b¥b`\_`a^ab¥aab`^bbb`\_ba[`aa^aa`abbb\_a[a`

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aaaaaaaaaaa`a\_`a\_`a\_`a\_`aa^`\_`^^`\_`^`  
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+HWI-EAS443:3:21:897:692#0/1  
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\_aaa\_abbabbabaaaaba¥aaaa]`aaa`aaa^¥`aaaa  
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AGGGGCATTTCATTTGACTGATTTGACTATCTTTCCCTTT  
+HWI-EAS443:3:22:1632:1406#0/1  
]\_aabaa`^baa\_aa`^\_ab\_ab`a\_YT[a^`a`ZVL`\_`a  
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+HWI-EAS443:3:22:863:1108#0/1  
a\_baaabbaaaa`aa`aba¥aa`aaba`a\_aaaa\_aa`  
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+HWI-EAS443:3:23:136:1153#0/1  
aaa]aaaababaaaa\_aaaZaaa[\_aaaaa`\_a`a\_`  
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+HWI-EAS443:3:24:438:1847#0/1  
\_Z^aX`b^][U`\_WOXQ^^¥ZS^ZX¥W]S]^WQRLUR[¥[  
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+HWI-EAS443:3:25:1292:1223#0/1  
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+HWI-EAS443:3:25:1541:1497#0/1  
aaaa`aaaa`a\_aa`aa\_a`a]^`\_`\_\_`^`]X\_ZW^\_  
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TAGGGGCATTTCATTTGACTGATTTGACTATCTTTCCCTT  
+HWI-EAS443:3:25:576:1925#0/1  
aaa]^ababaaaaaaaa`a`aa`\_aa`\_\_`a\_a\_`  
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+HWI-EAS443:3:32:751:1963#0/1  
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a^aaa[\_aaa`a`aa\_a`a`aa^\_\_`\_\_`V``\_^¥^^\_`^`  
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+HWI-EAS443:3:34:898:148#0/1  
abbabbaaba`a\_aaaa^^`\_`\_`\_`^]^^^W^W^^  
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+HWI-EAS443:3:35:525:2031#0/1  
[Ubb\_\_a\_babb\_^X]^`b¥\_baa`bab\_bb^bb\_baKb  
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+HWI-EAS443:3:37:1410:1697#0/1  
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¥^T\_bbbab`]¥ZY\_YQaV¥aaaaaX]Z`^`a\_¥Wa`\_Y[  
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+HWI-EAS443:3:46:369:63#0/1  
¥b`a]Y]¥^VK\_bS]\_a]`X^bba\_aa[a]aaaXWG¥]a]  
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+HWI-EAS443:3:46:521:91#0/1  
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V¥`^`I`ab\_\_bbbbSXa`\_abb`b\_a¥]¥bab[YZab`\_  
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+HWI-EAS443:3:52:361:366#0/1  
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+HWI-EAS443:3:53:378:238#0/1  
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+HWI-EAS443:3:53:920:1850#0/1  
a\_W^aab``aba[]Yabb¥^b^`^`\_ab``a^aa¥\_`aaa  
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`WQZ]a`aa]Za`a\_a\_V\_a]^Ya`[Y[\_]a^^YUT[]`



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\_OUaSN[X\_V^Ub\_P`aY[\_`[[\_FF¥R[\_[\_Y[G[``[]  
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a`a]\_]\_\_a``aaa\_a\_]`a^\_a\_a^^`\_¥`aa[X^\_^]\_  
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a¥\_Z]`b]aa\_a``bba]^a^\_a\_b`\_aaaa^a\_a`ba^W  
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a`^a^^\_`^aaa[`aa`aa]a\_[\_]Za```aaaZX)`¥`\_  
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aa`\_\_ba`aaX\_aaa\_]ba`Yaa\_[US¥\_\_^X\_\_^PW][  
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``a^`a`abaa\_\_`a`aa`a\_aWaaU\_`\_\_^`\_^]`^\_\_  
@HWI-EAS443:3:29:961:1834#0/1  
GTTTGAATTTGTGTGTCTCCCCTATGACACCTATATGTGT  
+HWI-EAS443:3:29:961:1834#0/1  
¥abbbba`bba``a\_bUaab`a^abaJJ^a`a\_\_\_\_aa`[YI  
@HWI-EAS443:3:33:695:600#0/1  
GCACAAACAGACTGTGTTCTAGAGGCTATGGCCTTCCCTG  
+HWI-EAS443:3:33:695:600#0/1  
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@HWI-EAS443:3:36:641:412#0/1  
AGTAAACAGAACACACCAATACACAGAAAAGGAAAGCGG  
+HWI-EAS443:3:36:641:412#0/1  
a\_L]aZNYQ]aW¥[aBBBBBBBBBBBBBBBBBBBBBB  
@HWI-EAS443:3:45:1183:1148#0/1  
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+HWI-EAS443:3:45:1183:1148#0/1  
[]b^Xbbbab`VbXabb`b`^`ababa]aa`a¥Y]`^aaa  
@HWI-EAS443:3:46:827:585#0/1  
AGAAGATGGTCACGCAAAGAACAATAGAGAAGAAAAAGGC  
+HWI-EAS443:3:46:827:585#0/1  
¥aabb\_¥^\_GR[\_]XWT^\_\_\_\_`^\_ZZZ`WZ^\_V`¥VYZT  
@HWI-EAS443:3:53:125:1657#0/1  
ATTAATACGATGAGCAAAGATGCAGAGAGAGGCAAGCTA  
+HWI-EAS443:3:53:125:1657#0/1  
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+HWI-EAS443:3:60:800:35#0/1  
aaZ`abaaaa`[X]aaY[aaa\_a`¥Wa`W¥RY[RY]`Z[]  
@HWI-EAS443:3:62:538:208#0/1  
GGAGCATTGCGAAAAGCTTGAACAGTTTGGGCTCCCTGA  
+HWI-EAS443:3:62:538:208#0/1  
`\_X`\_aa`\_`X`\_]V\_¥[^XV`YT¥RLUXRXUUUVURBB  
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ACACATATAGGTGCCATAGGGGAGACACATAAATTCAAAC  
+HWI-EAS443:3:69:1706:1571#0/1  
^aaabbbba]`^]¥`aba`^aa```aaa\_G^`]aa\_aaa]  
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GGGGTGTCTGTACTGTGTCCATGGAGTATCCTGTTCC  
+HWI-EAS443:3:75:1183:217#0/1  
aaU`a]PJ^Ubab[aU[T]aVW[a```DNP\_YFF\_aW[GQ  
@HWI-EAS443:3:75:1626:1868#0/1  
ATTTAATAAGAGCTCTGACATTAATACGATGACCAAAGA  
+HWI-EAS443:3:75:1626:1868#0/1  
a`F¥ba\_b`baVTKa`ab\_ba¥aa^a\_a`b\_¥\_]Y^`b  
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AATTCATGCCTTGAAACAATGGAAGTGGTTCAACAAAAA  
+HWI-EAS443:3:80:1001:502#0/1  
VZZ\_QUa\$¥T[\_`[T¥R\_aaabZ]]JFW`\_ZTSO\_Y]G[Y  
@HWI-EAS443:3:81:1269:1691#0/1  
AGTGGGTATGAACAAACAGACTGTGTTCTAGAGGCTAAGG  
+HWI-EAS443:3:81:1269:1691#0/1  
ab¥Y¥\_\_bb\_G]a\_Ybb`V]V^\_Z^J`Q`^aU^`^aBBBB  
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CAATTGAAGAGCCATCTGTGCCGTTGCAGGTCCAAGGGCA  
+HWI-EAS443:3:88:845:917#0/1  
a`abZRU`\_\_b`¥a[a]\_H¥\_abZXaX`\_YJaaXG¥[DGa  
@HWI-EAS443:3:99:1761:1272#0/1  
GGGGTGTCTCTATTTCCTCTTTGTTTCATTGATTCAA  
+HWI-EAS443:3:99:1761:1272#0/1  
¥abb¥]bb[F[\_bb`b`bba^`abbbb`bbb\_\_bbbZb  
@HWI-EAS443:3:10:228:1648#0/1  
GAAACAATGGNAGTCGTTCAACAAACAAGGGTAGATAAAC  
+HWI-EAS443:3:10:228:1648#0/1  
a^\_a^a^¥^UDZ^Z^UZ]VX^W^^\_OZ][VRKS^^R^X]S  
@HWI-EAS443:3:16:1107:1279#0/1  
GTGCCATGCTCAGGATGTTTGTGAACCACTCGGGNTGATT  
+HWI-EAS443:3:16:1107:1279#0/1  
aY\_]LUGX]YT\_]^ZNPPW¥FSMOQS\_]¥Ua]]PDTYSZU  
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CAAGCATTGACCTGAAGGACTTCAATGAATCNACAAAGAA  
+HWI-EAS443:3:21:1417:1950#0/1  
a\_N\_[a\_V¥^T\_a\_a¥DW^a\_\_Sa\_\_`KYFDZZa]\_]\_[  
@HWI-EAS443:3:2:105:1769#0/1  
TAGGTGCCATAGGGGAGACACACAAATTCAAACNAGAAGA

+HWI-EAS443:3:2:105:1769#0/1  
aa\_aX`aaaa^a`\_\_a]`\_a^aa`a`\_`a\_IDX`]`\_`  
@HWI-EAS443:3:44:907:1822#0/1  
CAATTGAAGAGNCATCTGGGCCGTTGCAGGTCAAAGGTCA  
+HWI-EAS443:3:44:907:1822#0/1  
aWbaZ]``^aUDX[a`]`]U¥a¥^Y[W`YU[ODUYSTR]^  
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GGCTAATTTTATGCATGGAGCNACCCAGCTTTGGGGTGTCT  
+HWI-EAS443:3:51:1312:1546#0/1  
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+HWI-EAS443:3:81:250:1355#0/1  
a`a¥DY¥aa`a`^a]a\_\_\_\_\_^¥]aY`TY[\_a`\_^`ZWT]`  
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CCCAGCGTTGCGATAGCCCTTCTTTTTANCTTGCCTCTC  
+HWI-EAS443:3:85:603:2008#0/1  
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GGCTAATTTTATGCATGAGCTACCCAGCTTTGGAGTGTCTG  
+HWI-EAS443:3:86:1414:106#0/1  
ab\_bbabbab`PXabbab\_a¥Z\_YT`UZZabS^aUa]Xaa  
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AACAGATCTTATGATCTCAGAGAACTCTTCTTTCTTGATC  
+HWI-EAS443:3:87:404:666#0/1  
aa`\_\_^\_aaaaa`\_\_`aa\_\_Y`\_a``aa`\_a`\_\_`\_^  
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GCAAAATGGACGGATCAAGAAAGAAGAGTTCTCTGAGATC  
+HWI-EAS443:3:100:183:261#0/1  
a`^aaaaaaa\_aa`^``````\_\_\_\_\_a\_\_\_Z\_\_^X\_]`YXY  
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CAGTAACTAATGGATGATGATTATCGGGGAAGACTTTGTA  
+HWI-EAS443:3:13:198:532#0/1  
\_a`\_bba`]`abaaaa`baaa¥`a`]`\_`\_\_\_\_\_`aaU\_  
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TGCTTATGGCATTTTTCGCTGGAATTTTGTAGGAAGAGAAG  
+HWI-EAS443:3:16:1178:998#0/1  
Zb\_a¥`VZVaJ[bb`b¥b\_ba`ZY`b0aUYbZV\_HT¥FYb  
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+HWI-EAS443:3:16:228:19#0/1  
aYab`a`a`[aa\_\_aaa`Y`¥a[YJT\_[[\_VRR\_S^R^]  
@HWI-EAS443:3:19:951:1775#0/1  
GAGATAACAACCCACTTTCAAAGAAAAAGGAGAGACGCTT  
+HWI-EAS443:3:19:951:1775#0/1  
a`^]0¥``bbaaab`aa\_b\_aR]aaaaaaaa\_a]\_\_W]^]  
@HWI-EAS443:3:1:1170:1935#0/1  
TGTGTACTCCATCTGATACTAATAGCCCTACCTTTGATTG  
+HWI-EAS443:3:1:1170:1935#0/1  
^b]a[HO]PM]¥Z``baYUZZ`^a[FYZ\_\_OMJ]Yb\_BBB

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+HWI-EAS443:3:20:565:1283#0/1  
aaa`aZ[baaa`baaa]a\_aa`^aa\_`a`b`aaa`a^`\_0  
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+HWI-EAS443:3:25:1557:1558#0/1  
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@HWI-EAS443:3:26:1716:1437#0/1  
CGGGTATGCACAAACAGACTGTGTTCTAGAGGCTAAAACA  
+HWI-EAS443:3:26:1716:1437#0/1  
Ya\_b¥aZ¥X¥\_Z[abba[aaaY`S]V]`XL]baaaBBBBB  
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AGCTAATGGATGATGATTATCGGGGAAGACTTTGGACATT  
+HWI-EAS443:3:27:334:623#0/1  
aaaaa`aa¥L]¥\_a`\_aa\_a\_\_ZTZ\_¥W`\_[\_W¥`Z^^\_  
@HWI-EAS443:3:3:709:1499#0/1  
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+HWI-EAS443:3:3:709:1499#0/1  
W\_abb^¥^\_a^\_bb`a\_^aabb`¥`b`\_b^babIabbbb  
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+HWI-EAS443:3:44:275:591#0/1  
`¥a\_a`UZ\_a\_^\_X\_\_a^[TGT]Z¥^W]^XZ`X¥]YTK  
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+HWI-EAS443:3:48:1741:430#0/1  
`X\_``G¥a`\_aba`Z^^[XX^Y¥U¥^ZZX`ZUZUVV^WW  
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+HWI-EAS443:3:51:1330:439#0/1  
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+HWI-EAS443:3:54:671:2005#0/1  
a^aa`aaa`a`a`\_aZVWQaXSZ`W`\_`^Sa``\_`a^`^]  
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+HWI-EAS443:3:62:170:975#0/1  
aaaaR\_`^`^]SYWS\_`\_Z^`\_]Z^`^^^ZZ]Z^^^  
@HWI-EAS443:3:64:470:1217#0/1  
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+HWI-EAS443:3:64:470:1217#0/1  
aaabb^`abbabbbbbbaaa`bbaYaaaaba^\_a[`aa``  
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GGGTATGCACAAACAGACTGTGTTCTAGAGGCTAAGCGGC  
+HWI-EAS443:3:75:593:1837#0/1  
]`[`UYb[Yabb`][`\_abSNS\_`YY^[SBBBBBBBBBBBB  
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+HWI-EAS443:3:91:755:727#0/1  
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+HWI-EAS443:3:93:1488:1946#0/1  
abbaaUbbab[HY`V`^a^¥`VQa\_a`bba`a]a\_\_GW`b  
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AAGAAGATGGTCACGCAAAGAACAATAGGGAAGATTTTGG  
+HWI-EAS443:3:97:1051:1629#0/1  
a\_b\_b]aaa`¥abaa^abaaaaaaa[a\_Ya^\_baaaaa[^  
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+HWI-EAS443:3:39:1183:1804#0/1  
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+HWI-EAS443:3:20:1235:1469#0/1  
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+HWI-EAS443:3:20:944:1263#0/1  
a^aaaaaaaa[aa¥`\_]^[a\_¥\_]^a`\_^\_a`^X`][[]  
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+HWI-EAS443:3:2:1117:823#0/1  
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CGGTGGTGCCTTATGGCATTGCGCTGGCATTGTTAGGAA  
+HWI-EAS443:3:37:444:764#0/1  
aaa0a`U\_a`\_`¥^a`\_\_¥\_[¥^U[¥F0¥`\_\_Z^^U¥  
@HWI-EAS443:3:46:1572:412#0/1  
CACAAACAGACTGTGTTCTAGAGGCTAAGGCTTTCCTTTA  
+HWI-EAS443:3:46:1572:412#0/1  
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+HWI-EAS443:3:46:1789:1529#0/1  
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AAACAATGGAAGTCGTTCAACAAACAAGGGTAGATAAAAT  
+HWI-EAS443:3:47:1787:377#0/1  
aaa`¥Z\_abaaa]\_a[`W`a]\_`[G¥[\_\_\_HU`RNX\_ZGR



@HWI-EAS443:3:5:1149:208#0/1  
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@HWI-EAS443:3:61:567:1246#0/1  
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+HWI-EAS443:3:61:567:1246#0/1  
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+HWI-EAS443:3:67:684:602#0/1  
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+HWI-EAS443:3:87:1033:2043#0/1  
V\_\_a]Y`WQ]\_\_Y`YZW\_]^Y]\_BBBBBBBBBBBBBB  
@HWI-EAS443:3:92:33:1142#0/1  
TCGCCGTTGCAACTACACATTCCTGGATTTCCAAGAGGAA  
+HWI-EAS443:3:92:33:1142#0/1  
[¥]Va`R]\_V\_[]^`]a]a\_aa`TY¥\_¥[R]N]]\_U^[XQ  
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GGCTCTTTATTTCAGTCTTTGTTTTTTGTTCCCTATTGTT  
+HWI-EAS443:3:94:999:334#0/1  
[H[\_]\_a]]][aaYJ\_N]a\_a]YW]Z]ZF¥UVOX`¥\_\_]]P  
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¥baWI`b`\_VaSXbbKbX\_b`\_aV`^Q¥S¥\_GSY¥b]QYH  
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+HWI-EAS443:3:9:869:1759#0/1  
abbb¥a]aUb\_a`]SXa`\_X[YPXUT^\_[R``a\_\_\_^Y]\_  
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@HWI-EAS443:3:60:1037:11#0/1  
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+HWI-EAS443:3:60:1037:11#0/1  
\_a\_\_`abb]Q\_aa\_a`][a``\_`a\_[XODTYUDWZZ\_^X^  
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GAAATTTTCCCTAGCAGTTCATATAGGAGACCGGAATTT  
+HWI-EAS443:3:100:437:885#0/1  
abbabbaabaaabaa\_aa\_aa`aa`\_a`^^\_]`^a\_¥H]\_B  
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+HWI-EAS443:3:11:556:681#0/1  
`ba`Q)`\_\_\_\_aa\_]S\_a][\_OWYUW]`\_[\_\_BBBBBBBB  
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+HWI-EAS443:3:17:56:1723#0/1  
ab`babUbab`b^aa`aaa`aa^`¥\_a`\_]\_a[^a^`baaa  
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+HWI-EAS443:3:21:1694:636#0/1  
ab]aY`abba[abWZZ\_a^a`V`a^aa`\_\_a^aZaVLa¥`  
@HWI-EAS443:3:21:1712:1871#0/1  
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+HWI-EAS443:3:21:1712:1871#0/1  
`^a`]`ZUa^b]¥]\_XNYaW\_aXU^\_\_S^U^NUYLJSG¥Y  
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a`\_aaabaa[aYDZ`a^`aZU\_[^^^Y^`[P¥`RY^\_\_`\_  
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+HWI-EAS443:3:25:1695:1247#0/1  
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+HWI-EAS443:3:49:1158:866#0/1  
abaabb\_ba`aababaa^aaaa`\_¥\_\_\_`\_`^Y\_a\_a`¥  
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+HWI-EAS443:3:50:763:44#0/1  
a\_aW]`\_`Sb\_a[X^U\_[RXbSXSOFSYL[^PX¥BBBBBBB  
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+HWI-EAS443:3:51:745:1742#0/1  
aaaaaUa`\_]`^aaa[^`Za`\_\_a\_^JZa`\_YVYUXZJM¥  
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+HWI-EAS443:3:53:658:308#0/1  
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@HWI-EAS443:3:56:1789:1566#0/1  
GGTGGGTATGCACAAACAGACTGTGTTCTAGAGGCTGGCT  
+HWI-EAS443:3:56:1789:1566#0/1  
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+HWI-EAS443:3:67:1353:1590#0/1  
aabaabaaa\_a`a\_aaaa\_a¥aa`a`\_`\_`\_Z`aa^Z\_  
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+HWI-EAS443:3:68:866:134#0/1  
Z\_[`aba[[WaY````]ba`YV]\_b^^V^^[``[Zaa  
@HWI-EAS443:3:6:797:22#0/1  
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+HWI-EAS443:3:6:797:22#0/1  
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+HWI-EAS443:3:73:192:184#0/1  
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+HWI-EAS443:3:73:483:1891#0/1  
\_QM\_`R¥\_SLV\_NL\_^00a]]UGUUR]WOH`ZR^GW¥Z  
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CGGGGGGAGTGGACAGATTCTACAGGACCTGCAAGTTAGT  
+HWI-EAS443:3:73:730:677#0/1  
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+HWI-EAS443:3:74:474:509#0/1  
aabaaa¥aaaab`baaaabaab`aaa`aa`^aa```aa\_  
@HWI-EAS443:3:84:1170:969#0/1  
GACATATAGGTGCCATAGGGGAGACACACAAATTCAAACG  
+HWI-EAS443:3:84:1170:969#0/1  
GTab`¥`¥bb`]\_`¥`Xaaaaba^bb`[``T`S¥babab  
@HWI-EAS443:3:93:1024:333#0/1  
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+HWI-EAS443:3:93:1024:333#0/1  
aba`a``abbbbb]b\_aa\_`a`aZ\_aa``\_a``^X\_] ]  
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+HWI-EAS443:3:94:648:370#0/1  
aa`\_^]W¥``^aaaaa]`[`a`a]a^a\_\_`a\_``\_]\_\_\_¥  
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GTGGGTATGCACAAACAGACTGTGTTCTAGAGGCTGGGTT  
+HWI-EAS443:3:97:804:587#0/1  
aYa\_ZZaa]X\_\_``\_]Za[S^^]\_Z[W¥^]^]\_VY\_[OYB  
@HWI-EAS443:3:99:224:1260#0/1  
AGAGACAACATGACCAAGAAGATGGTCACGCAAAGCCTTC  
+HWI-EAS443:3:99:224:1260#0/1  
a^`baaa\_ab\_```\_[aa`Za`\_a\_¥``Na\_\_\_\_\_][SZ¥¥  
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+HWI-EAS443:3:99:519:42#0/1  
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+HWI-EAS443:3:16:317:794#0/1  
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+HWI-EAS443:3:42:1140:566#0/1  
a^a`^YD]ba`a\_b\_\_UaaabbbSba`a\_aaaXO\_`\_a`a  
@HWI-EAS443:3:100:415:1793#0/1  
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+HWI-EAS443:3:100:415:1793#0/1  
`b`bab`YY```\_¥^Z^b¥`^b`^`UTaMFV`^S¥`YB  
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GAACAGGATACACCATGGACCCAGTAAACAGAACACACCC  
+HWI-EAS443:3:11:539:1554#0/1  
]^`^Yaa\_a^T`S^ab[`a[`J^`aZ\_¥X`aa^a`RNa[IT  
@HWI-EAS443:3:14:209:1822#0/1  
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+HWI-EAS443:3:14:209:1822#0/1  
^\_U\_baabb¥W\_^`Ya^^a^QG[baa\_]\_^\_SYZS\_\_SVO  
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+HWI-EAS443:3:15:1621:138#0/1  
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+HWI-EAS443:3:18:1081:735#0/1  
^Q`P`SOSZ`T]¥TTPP\_]0¥\_V\_QU]`[ZPTDNYJ^^RG  
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ATCCACTTAGTGTTGTCCCCAGTGATTGGGAAAGAAATCT  
+HWI-EAS443:3:18:176:1784#0/1  
a)`\_[^`X\_\_OLS\_]\_a`WZSZO`]OTUHW]OWVOX^UVZ  
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+HWI-EAS443:3:1:1709:1024#0/1  
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+HWI-EAS443:3:24:1428:2031#0/1  
ababb\_a\_aWUa\_Y[ZaaabaVGTa^a[Y`aa```¥M[`a

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+HWI-EAS443:3:39:1068:590#0/1  
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+HWI-EAS443:3:39:99:1289#0/1  
aaaa^a¥^\_a`aYaa`aaYJP¥^\_`YR\_a[^[R\_`\_ZV`¥  
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aaba`abaabaababaaaa\_\_aaaa\_a`ab\_a]^\_aY\_V  
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+HWI-EAS443:3:48:1784:666#0/1  
aaaa^bbaaba^\_`¥a`aaU`^^^\_TRX]^Y`]]^U]^  
@HWI-EAS443:3:4:1246:1298#0/1  
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+HWI-EAS443:3:4:1246:1298#0/1  
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[a¥Xaba`¥b¥a`[PFT]\_V`Z¥YT\_WYXGS^UaX\_TTB  
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+HWI-EAS443:3:50:1677:1590#0/1  
aa\_`[\_`\_`baa¥\_`T`¥a\_a`PPVZ^`\_¥\_ZPZ]X\_VY^X  
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+HWI-EAS443:3:56:865:520#0/1  
RY]\_aaX¥XI¥`aYQ¥a¥R\_`^¥NWP^]H[SZY\_[UMUHF  
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+HWI-EAS443:3:76:1418:949#0/1  
\_`^[XX`[^R¥]\_\_b`¥`^^aa¥\_aY`]T^S^`[ZDT[]  
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+HWI-EAS443:3:87:1038:735#0/1  
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+HWI-EAS443:3:8:352:280#0/1  
aba\_]a]\_¥\_a¥\_a\_a\_Y]aa^\_\_^\_\_^\_\_X\_¥RZ\_Za]  
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+HWI-EAS443:3:92:347:1088#0/1  
`[]a``ab^\_b\_\_b\_aaabab]ab\_aa^a`aa\_a\_a^T¥  
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a`]^`W`0[RLXb]a`RaR]Y][GT\_¥`Wa^MR¥YWB  
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+HWI-EAS443:3:10:1082:1822#0/1  
a\_`]^\_TXGYOY]`Y¥`]]]^WN¥BBBBBBBBBBBBBBB  
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+HWI-EAS443:3:13:647:2047#0/1  
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+HWI-EAS443:3:14:471:629#0/1  
\_T\_a`¥¥`\_X¥R]S¥`]]][RN]^OR¥^]¥OX¥ZVZ¥GQZB  
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+HWI-EAS443:3:14:721:1214#0/1  
aWab]]X`ZOM][a^ba¥UOV^\_a\_a\_bYa\_^aU[a\_`Ma  
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CAGCTCTTCATGATCTCAGAGAACTCTTCTTTCTTGATCC  
+HWI-EAS443:3:16:1398:1744#0/1  
Z`YGMa¥`]¥Z[^X`\_aaaX^\_a[]YV[Pa]YF]a\_YZ

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+HWI-EAS443:3:19:1198:1735#0/1  
¥bbb`bababab\_bbbababbbabbb`bbbbaababbb`a  
@HWI-EAS443:3:19:700:402#0/1  
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+HWI-EAS443:3:19:700:402#0/1  
^aY]\_^Y^`a[Z¥[XZZaaZ]Wa^R^X\_a`]U]]W`[SV]  
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+HWI-EAS443:3:1:247:1560#0/1  
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+HWI-EAS443:3:20:679:1277#0/1  
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+HWI-EAS443:3:21:342:189#0/1  
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+HWI-EAS443:3:22:1259:1581#0/1  
¥¥[\_^b`b`¥Q\_a`aX```\_\_\_\_\_`^T]]`Z¥`aaa\_\_La  
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+HWI-EAS443:3:22:1719:198#0/1  
¥aT^aab\_\_`]aa`\_aZ¥\_`]¥T]a]R¥aYU\_N``\_aadU  
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+HWI-EAS443:3:25:524:1225#0/1  
a^WZaa^`T\_Z]\_\_^\_V^]]\_[U[^[XXY]ZWXU]]XWYO  
@HWI-EAS443:3:26:1342:1042#0/1  
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+HWI-EAS443:3:26:1342:1042#0/1  
abababbbbaa\_baaabab^aaaaa`a`baaaaaa\_aaa``  
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+HWI-EAS443:3:27:332:688#0/1  
\_^XUXa^]Z¥KQXX¥\_`aX]SZTJJRV\_OX¥FPDWVKR]]  
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ab]aa`aa\_a¥a`Wa``````a`\_b[b``baaa`\_a`\_\_  
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¥Z¥XS\_b¥aWXUZ]a`^X^\_^^ZPXG^aI¥]PQ]``^aaZ  
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+HWI-EAS443:3:2:838:707#0/1  
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+HWI-EAS443:3:30:1516:1219#0/1  
^^`\_`¥¥[^]\_a^[^]`Z`Z¥¥¥YPW^`V[VVYNV  
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+HWI-EAS443:3:31:1257:1656#0/1  
\_Z`\_\_`]R0\_`^aa``¥VGM[WVQ\_\_]\_b¥¥a^¥a``\_\_  
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ab^aa[a\_a\_Ra\_`a`Yaa`^Z[U0a^aa\_¥\_a^\_aa\_Z  
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+HWI-EAS443:3:33:1240:36#0/1  
aa^aU`^`ab\_aa¥^^]`baa^aYPYRT`ZZ\_S]]S\_YT\_  
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+HWI-EAS443:3:34:1125:403#0/1  
a¥¥bb]bba[`Xbaabb^]bb[b`a`\_]b`¥¥RS¥[¥`]S  
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+HWI-EAS443:3:34:1195:1895#0/1  
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+HWI-EAS443:3:34:926:129#0/1  
a\_V\_aaa`b\_aa\_a\_a[]\_aa\_VP^Y\_Z^R^UYXVBBBBB  
@HWI-EAS443:3:35:1260:604#0/1  
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+HWI-EAS443:3:35:1260:604#0/1  
`a\_¥`¥`b`aaabaa`S]\_`ba`\_S`babaZ^`\_`aa\_0`



@HWI-EAS443:3:35:319:677#0/1  
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+HWI-EAS443:3:36:1321:1069#0/1  
V¥\_a`YV^\_V[bba`^^`Z¥Z\_U^abaab\_N\_]a`¥\_Pa  
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+HWI-EAS443:3:36:657:1417#0/1  
a\_TROW]^`a¥SPOZZUTa\_`[\_]TQVRS¥TVKQ`SDLH^  
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+HWI-EAS443:3:37:1323:1290#0/1  
\_a```bbb`X]Y`aaZ\_aa`\_\_\_a^`abRR¥``a`aX]Z  
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+HWI-EAS443:3:37:326:1178#0/1  
aabba¥`baa[aba`a]aaa\_aaa`a`ab[FX\_^aa`\_^`  
@HWI-EAS443:3:38:1522:492#0/1  
CGTCCCTCTTTGTTTCATTGATTCCATTACATCCTTTAAGA  
+HWI-EAS443:3:38:1522:492#0/1  
abaaa`bbbbba`babaaaabaa`bbbaa`\_[Wbaaa`a^  
@HWI-EAS443:3:3:696:582#0/1  
ATTGTTTCAAGGCATGAATTCTCAAATATTCCTGGGAGGG  
+HWI-EAS443:3:3:696:582#0/1  
Xa``abb``a``Y^bb`[[Z\_`\_S`^aa¥`]XbaaGa`¥  
@HWI-EAS443:3:44:889:1722#0/1  
GCAAAATCGTCGGATGATTGGAGCCCATCCCACCAGAATA  
+HWI-EAS443:3:44:889:1722#0/1  
a¥a`¥`¥Z]VNOV¥WYJSWTYLQMK\_X[TDRWQSYDEP]  
@HWI-EAS443:3:48:446:1220#0/1  
GTTCGAATCTTCATTCTTTTACTCTCGAACATGTA CTCTT  
+HWI-EAS443:3:48:446:1220#0/1  
aaaPR`¥a0¥\_\_W\_aYYaZ[^[]]TTY^^]¥\_NQ`SOJ\_[  
@HWI-EAS443:3:48:578:268#0/1  
CACATATAGGTGCCATAGGGGAGACACACAAATTCAAACG  
+HWI-EAS443:3:48:578:268#0/1  
ababbbbab\_baabbabbbab`aa`a\_Z\_aaa[aaaXa  
@HWI-EAS443:3:48:765:72#0/1  
CACATATAGGTGCCATAGGGGAGACACACAAATTCAAACG  
+HWI-EAS443:3:48:765:72#0/1  
¥IS```\_`ba]^`^Y^`Y`bbbZU]\_YWWP`[Za`JY\_[Ua  
@HWI-EAS443:3:49:1719:876#0/1  
ATTGAAGAGCCATCTGGGCCGTTGCAGGTCCAAGGTGATT

+HWI-EAS443:3:49:1719:876#0/1  
]\_^R]aZYa\_Xa\_WaXS`^^JYPM^\_VRJN]]ZKDX^X  
@HWI-EAS443:3:49:487:1422#0/1  
AATATTTGAGAATTCATGCCTTGAAACAATGGAAGTCGTT  
+HWI-EAS443:3:49:487:1422#0/1  
`^aba`abab`bb`Z`b[Waabbbb]b`^^a^`UV\_QZ  
@HWI-EAS443:3:4:453:1964#0/1  
ACCGTCCTGCTTGTATTCCCTCATGGTTTGGTGCATTAC  
+HWI-EAS443:3:4:453:1964#0/1  
a\_^PZb]\_aUW`XaaabY)`aaa^\_N[\_`XT]UYQ`X]G  
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CACATATAGGTGCCATAGGGGAGACACACAAATTCAAACG  
+HWI-EAS443:3:50:619:1540#0/1  
`\_\_abbbbb]baaUbbba^a^`b`^bababb\_baaaba\_b  
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+HWI-EAS443:3:51:1241:695#0/1  
ababbbbaba\_ba`aabbabba\_aabab`a`abaaaa\_b  
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+HWI-EAS443:3:51:1370:1346#0/1  
ab\_bbabba`\_bab`baTabXSZ`]Y`a`\_bb^[F[bb]Z  
@HWI-EAS443:3:51:356:453#0/1  
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+HWI-EAS443:3:51:356:453#0/1  
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CACATATAGGTGCCATAGGGGAGACACACAAATTCAAACG  
+HWI-EAS443:3:52:1555:294#0/1  
abbb`b\_bab\_aaaab`babbaaa^a]a\_baab`\_b`a\_  
@HWI-EAS443:3:53:1212:1707#0/1  
TGGCTCTCAATTGTTTCATCAAAGACTACAGATACAAATA  
+HWI-EAS443:3:53:1212:1707#0/1  
\_Z\_P\_``bbb`T`\_`XY^ZN]ZP`[\_[Z^a^a`Z`G\_X`  
@HWI-EAS443:3:54:1428:1908#0/1  
AATATTTGAGAATTCATGCCTTGAAACAATGGAAGTCGTT  
+HWI-EAS443:3:54:1428:1908#0/1  
aabbbbbabbaba^aaaa]aaa`aa]a`aa`aaa`T\_^  
@HWI-EAS443:3:54:927:733#0/1  
GTGGGTATGCACAAACAGACTGTGTTCTAGAGGCTAAGGG  
+HWI-EAS443:3:54:927:733#0/1  
a``b^aa`[\_`\_`[\_Z`\_[Yaa`ZZR`Z^[^BBBBBBBB  
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+HWI-EAS443:3:55:193:1778#0/1  
abaabbaa`]`ba`ab`aaaaaaaaa`a`aa^aaaa\_a  
@HWI-EAS443:3:55:886:802#0/1  
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+HWI-EAS443:3:55:886:802#0/1  
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+HWI-EAS443:3:65:676:1020#0/1  
aa]F]aaabbbbaa`aaabba`aaa\_a`aZaa```Ya\_a\_`  
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GGTTGTTATCTCTATTTCCCTCTTTGTTTCATTGATTCTATT  
+HWI-EAS443:3:65:948:1429#0/1  
`YD]ZW¥]ab`\_SYW¥bbba`ba[]aa^`\_aW]aaVEYba  
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+HWI-EAS443:3:65:986:1492#0/1  
a`aa^a`a`Xa`[]`\_]X[]`\_`\_\_`a`Y^^[\_`^¥  
@HWI-EAS443:3:67:1375:455#0/1  
CCACGGGCTCCAATCATCCGACGATTTTGCTCTCATAGTG  
+HWI-EAS443:3:67:1375:455#0/1  
a`\_a`\_`a^aaaa`\_`]aa`baa]\_baaa]a\_a`aaZa  
@HWI-EAS443:3:67:829:474#0/1  
CGTGGGTATGCACAAACAGACTGTGTTCTAGAGGCTAAGG  
+HWI-EAS443:3:67:829:474#0/1  
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@HWI-EAS443:3:67:832:1879#0/1  
GTGGGTATGCACAAACAGACTGTGTTCTAGAGGCTAAGGC  
+HWI-EAS443:3:67:832:1879#0/1  
a\_aa^a]aa]a`baa`\_b\_[aaX]Z[Y`a`\_¥ZBBBBBBB  
@HWI-EAS443:3:68:1508:1466#0/1  
ATTTTGTGTTGAGAACATTATGGGTGCCATGCTCAGGGTGT  
+HWI-EAS443:3:68:1508:1466#0/1  
LY\_Y]\_0¥^[^a^¥[a^aa^W\_L\_TW\_\_¥]Y]¥¥¥G[WV  
@HWI-EAS443:3:69:1317:1756#0/1  
CAGCTTTGGAGTGTCTGGAGTAAATGAATCAGCTGAAATG  
+HWI-EAS443:3:69:1317:1756#0/1  
a^^`^^ab`¥`XaS``\_\_\_\_\_X`a[[]`\_0^\_YIY]]GZZ]  
@HWI-EAS443:3:69:1454:982#0/1  
GAATCTGTCCACTCCTGCTTGTATTCCCTCATGGTTCGGT  
+HWI-EAS443:3:69:1454:982#0/1  
^][babb\_aa\_[aaaa`aab^aaa\_aaa\_a`]]`\_`aS  
@HWI-EAS443:3:69:484:1970#0/1  
AATATTTGAGAATTCATGCCTTGAAACAATGGAAGTCGTT  
+HWI-EAS443:3:69:484:1970#0/1  
aa`a`\_`^`a^\_a\_\_a^a\_\_\_\_`\_`aab```\_`\_¥P^][W  
@HWI-EAS443:3:6:1290:348#0/1  
CACATATAGGTGCCATAGGGGAGACACACAAATTCAAACG  
+HWI-EAS443:3:6:1290:348#0/1  
abaabbbbbbabaaababbb`aba\_a\_a\_abaaa¥aba^a  
@HWI-EAS443:3:70:488:1307#0/1  
GTGGGTATGCACAAACAGACTGTGTTCTAGAGGCTAATGC  
+HWI-EAS443:3:70:488:1307#0/1  
¥X`a`\_Ta`Ya]\_aa`\_[]`aaa[`T^]`a``BBBBBBBBB  
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CACATATAGGTGCCATAGGGGAGACACACAAATTCAAACG  
+HWI-EAS443:3:70:724:1827#0/1  
`a`ababbaZ`\_\_baab¥\_\_^Y`abbababbbb^abbba^

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+HWI-EAS443:3:72:1017:1535#0/1  
aa[WYLUX¥YGYX\_RRQ]S^OXV]¥N¥ZOTGYb\_YNFSbQ  
@HWI-EAS443:3:72:102:1936#0/1  
CACACCCACCCAGGAATATTTGAGAATTCATGCCTTGAAA  
+HWI-EAS443:3:72:102:1936#0/1  
a`a\_]aa`a`\_VWZ]\_V]^]]¥\_]^¥Z]^WY\_^XYYZV¥  
@HWI-EAS443:3:72:1352:1145#0/1  
CATGGACACAGTAAACAGAACACACCAATACTCAGAGACA  
+HWI-EAS443:3:72:1352:1145#0/1  
^b\_¥R\_b¥^bbVa¥abaa```ZVX¥adW`b\_baab`aa\_]`  
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GAGGAAAATCGTCCGATGATTGGAGCCCATCCCACCAGTA  
+HWI-EAS443:3:74:1711:111#0/1  
a`\_HU]a`¥K`\_VOV^[`RZ[`^BBBBBBBBBBBBBBBBB  
@HWI-EAS443:3:75:1763:561#0/1  
AACAAAGACTGAATAAGAGAGGCTATCTAATAAGAGGACT  
+HWI-EAS443:3:75:1763:561#0/1  
a\_Zaa]\_IQZ[^[^[\_Z]^Q]aBBBBBBBBBBBBBBBBBBB  
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GAAGAATTGAAGAGCCATCTGGGCCGTTGCAGGTCCAAGG  
+HWI-EAS443:3:76:1299:709#0/1  
aaW0[¥aa[\_aa\_YX\_a`U\_`]¥\_YQPTPV]]G]GLR^^  
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ACGCTCTTGGGAGTCTCGATACTGAATCTTGGACAAAAGA  
+HWI-EAS443:3:76:722:1737#0/1  
^ZYFF^]U¥¥P¥`Q`a]WX]QTWT\_^RG¥\_W¥`YGZ\_ONV  
@HWI-EAS443:3:78:1691:887#0/1  
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+HWI-EAS443:3:78:1691:887#0/1  
¥a[D[aa\_a^b^^`b]^b`aa[X]PI¥aa`aaaa\_aZYT  
@HWI-EAS443:3:78:22:1547#0/1  
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+HWI-EAS443:3:78:22:1547#0/1  
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+HWI-EAS443:3:78:941:2030#0/1  
ZX[aaa`Z[P\_OR[\_^\_N\_a^`]¥ZXZ]UP\_^`^^[F[`T  
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+HWI-EAS443:3:79:1015:197#0/1  
abbbabbbbabab^aa`a`\_`ba\_aaaaa``^`Zaaa``V  
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GCCGGGGTCCGACTTCGAGTCTGGACGGATCAAGAAAGAAG  
+HWI-EAS443:3:79:518:1968#0/1  
a[b^QXP\_aS\_]\_[a`S^YY]]P]^]][\_ba`aZaa[aZ¥  
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CGGCGTGTCTGTTTACTGTGTCCATGGTGTATCCTGTTC

+HWI-EAS443:3:7:316:1061#0/1  
Yb¥¥[^`\_ba\_bab^baabUaab[^]]`aUa]¥^abZa`  
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GAGATTTCTTTCACAATCACTGGGGACAACACTAAGAGGA  
+HWI-EAS443:3:7:669:2019#0/1  
S\_XbbbXaaaa\_¥baaaXV\_bb¥aaaX¥bb`b¥XaIbWa  
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+HWI-EAS443:3:7:878:465#0/1  
¥aZabb\_baaaaa^aabYa\_[]`L\_T`\_\_^^]aBBBBBBBB  
@HWI-EAS443:3:80:465:403#0/1  
GAGACAACATGACCAAGAAGATGGTCACGCAAAGAAAGAA  
+HWI-EAS443:3:80:465:403#0/1  
\_X`aaaa^a`aa¥\_[]aa`\_[]\_\_\_Z]\_^]]^VT`\_ZU`]W  
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GTGGGTATGCACAAACAGACTGTGTTCTAGAGGCTAAGGC  
+HWI-EAS443:3:81:539:881#0/1  
aZ^aaUaab`^aa[^aa`\_`a][T][Z\_]XZBBBBBBBB  
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+HWI-EAS443:3:82:1110:522#0/1  
aabbbbbbbbabbbbbbbabab`bbabaaabbabbaaabab  
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+HWI-EAS443:3:83:1141:2005#0/1  
¥`YJQ^]\_b\_ba\_aa¥\_aaab^a\_¥R^INZbY][`\_aWUO  
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AATTGAAGAGCCATCTGGGCCGTTGCAGGTCCAAGGGCAT  
+HWI-EAS443:3:84:1122:1790#0/1  
Zbbbabbb\_\_ba^ba]YYX[b[^H¥bY`ba[]]b\_S[aH`aH  
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+HWI-EAS443:3:84:286:1526#0/1  
a]baab¥WZ^^abaaaaa\_a`X¥¥`aaa`\_aba`\_\_  
@HWI-EAS443:3:85:1792:725#0/1  
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+HWI-EAS443:3:85:1792:725#0/1  
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@HWI-EAS443:3:85:856:1135#0/1  
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+HWI-EAS443:3:85:856:1135#0/1  
`]``\_b]a`Vb]aaba¥[]`W]^a^X]]^`\_ba\_]¥Y¥Y  
@HWI-EAS443:3:86:125:695#0/1  
TGTGGGTATGCACAAACAGACTGTGTTCTAGAGGCTAACG  
+HWI-EAS443:3:86:125:695#0/1  
abS¥¥YXbaa]T[^a`UVUX¥[DVIYYZVZ`BBBBBBBB  
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GGCCGGTCTCCATCTGATACTAATAGCCCTACCTTTGAT  
+HWI-EAS443:3:86:1373:1978#0/1  
abV]ba[[ab[\_\_\_aUaV`^b¥baaaa`QM^¥YKIa`aaa\_

@HWI-EAS443:3:86:164:1168#0/1  
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+HWI-EAS443:3:86:164:1168#0/1  
\_]aaaZ\_]Z`¥]aYMZX^[YYL^^¥` `[Z]L¥HZ\_HNUZ  
@HWI-EAS443:3:87:1183:774#0/1  
CCCCGGTGTTCGATAGCCCTTCTTTTTAACTTGCCCTC  
+HWI-EAS443:3:87:1183:774#0/1  
aaabbb`b`bb`b¥\_\_a\_\_^abaaaaba`aaaaa^a\_`  
@HWI-EAS443:3:88:105:397#0/1  
CATGCTCAGGATGTTTCTGAACCACTCGGGTTGATTCCAT  
+HWI-EAS443:3:88:105:397#0/1  
a]X\_^aa]\_\_[0`\_\_`]¥Y^U¥T]]][[`SJSW`SXSZR^  
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AACGACTTCCATTGTTTCAAGGCATGAATTCTCAAATATT  
+HWI-EAS443:3:88:645:773#0/1  
a)`baaaaaabaa[Q)`a\_Q^aaa`a\_^a\_``^a\_\_`^\_¥  
@HWI-EAS443:3:89:1314:389#0/1  
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+HWI-EAS443:3:89:1314:389#0/1  
\_[S\_bb[\_bbbb]]`a[MZ\_ab\_aabTbaPa[RM^Ga¥`  
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+HWI-EAS443:3:90:1170:142#0/1  
aYD¥\_\_aaa\_aaaa`\_abaaa`\_U]`\_`a^\_U`Z\_¥U¥  
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TGTGCCAGTGATTGTGAAAGAAATCTCTGTGTCTTGTGA  
+HWI-EAS443:3:91:1473:1643#0/1  
¥b^GWb^[^`\_a\_WW^T]aaa\_N^NZ][D0a\_\_aaa]LU  
@HWI-EAS443:3:91:166:1283#0/1  
ATCACACCCAGGAATATTTGAGAATTCATGCCTTGAACA  
+HWI-EAS443:3:91:166:1283#0/1  
aaba`¥`baa\_\_Zaaaaaaaaaaaaa\_[`\_`a[\_`aa``Ub  
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AACGACTTCCATTGTTTCAAGGCATGAATTCTCAAATATT  
+HWI-EAS443:3:91:315:369#0/1  
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+HWI-EAS443:3:92:457:176#0/1  
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+HWI-EAS443:3:92:606:866#0/1  
a]babbb[]`a\_ba\_\_\_[a\_a`S\_a]¥[[X\_\_]]a\_HY\_\_  
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+HWI-EAS443:3:93:1110:1481#0/1  
a``[¥`b\_a[``VWZ\_a¥aXa]NFYU]T^JFZ\_ZSFFUQ\_  
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+HWI-EAS443:3:93:1112:1555#0/1  
aaabaa¥]¥bWb[`aa[ab` `S]\_Za¥a`a`a\_S^a¥\_U`  
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GTCAATCCGACTCTACTTTTCCTAAAAATCCAGCGTAAA  
+HWI-EAS443:3:93:1382:676#0/1  
\_N^VYTP¥aXR[T\_\_\_a^^¥¥XYaR\_]a^X^[\_SPBBBB  
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+HWI-EAS443:3:94:1586:620#0/1  
a\_aaaUZ¥`T`W¥^XT`a\_]a`TZW^XYU]S]BBBBBBBB  
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ACTCATTAGCTGTTAGGCCATTCGATCTAAAGACTTATAT  
+HWI-EAS443:3:95:1473:370#0/1  
`\_\_UaaY` `¥bb^]Z`]U^[ZSDT\_WUa0aS]SXa^BBBB  
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GTGGGTATGCACAAACAGACTGTGTTCTAGAGGCTAAGGT  
+HWI-EAS443:3:95:626:1848#0/1  
`[aab[ `^]Z` `Y\_aaX¥\_Va\_\_aa\_\_BBBBBBBBBBBB  
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+HWI-EAS443:3:95:862:136#0/1  
ab\_`bbbaab`babbabbbabbaba`bbbaaba` `a`\_a  
@HWI-EAS443:3:96:497:1720#0/1  
AGAACCATCTGGGCCGTTGCAGGTCCAAGGTCATTGTTTA  
+HWI-EAS443:3:96:497:1720#0/1  
aa`a\_ba^b\_ZU`a`¥VR¥S[XaU^W`\_]aRZ\_a¥¥T` `]  
@HWI-EAS443:3:98:1060:803#0/1  
GTGGGTATGCACAAACAGACTGTGTTCTAGAGGCTAAGGC  
+HWI-EAS443:3:98:1060:803#0/1  
a]`aaX^`a\_a\_\_\_\_\_]aQXa\_Y\_Ya^\_]^[U^] `^BBBB  
@HWI-EAS443:3:98:250:489#0/1  
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+HWI-EAS443:3:98:250:489#0/1  
a` `bbbaaaa\_aabbaaaaaab\_baaa`aa\_aaaaaa^b  
@HWI-EAS443:3:9:261:247#0/1  
GTCCCCAGTGATTGTGAAAGAAATCTCTGTGTCTTGGGAA  
+HWI-EAS443:3:9:261:247#0/1  
a^\_a`a]Z^` [ `]YPW^^\_AZ\_^X^]a¥WR^WW¥^]U]RX  
@HWI-EAS443:3:9:652:1143#0/1  
AAGGGTTTGTGCATACCCACTTGGTTCATTATCCTCAGGT  
+HWI-EAS443:3:9:652:1143#0/1  
a¥^\_\_a`a¥¥[ [ `]a`\_ba^aaYY\_Z\_^b`\_a^\_a\_\_]X  
@HWI-EAS443:3:39:1305:1219#0/1  
CAGGGGCAATGAAAAGAAGGCCAAACTGGCAAATGNTGT  
+HWI-EAS443:3:39:1305:1219#0/1  
`ab`aabbabaa` `aaa`a`a^a\_bZaaa`^`\_`aYD[aW  
@HWI-EAS443:3:63:89:1440#0/1  
CTGGCTTGTGTTGAGAATAGAACGATNCCTCTTGGGAATC  
+HWI-EAS443:3:63:89:1440#0/1  
ab\_NabZZ]aYaYQV\_\_^`\_`a`YXTDX` \_\_\_\_`¥\_]Y[Z¥



@HWI-EAS443:3:73:1304:1683#0/1  
GCACAAACAGACTGTGTTCTNGAGGCTATGGCTTTCCTTT  
+HWI-EAS443:3:73:1304:1683#0/1  
aaaaabaaa`aaa]a\_a^[D¥aaa`\_^BBBBBBBBBBBB  
@HWI-EAS443:3:84:31:1898#0/1  
CGCTGTGGNATCAAACCCAATCAAAGGTAGGGCTATTAGT  
+HWI-EAS443:3:84:31:1898#0/1  
`[\_a[¥XDR]aaa`\_aaa^\_`WX^YZ^^YY\_]a]V][T  
@HWI-EAS443:3:100:1102:2005#0/1  
GAATCCCACCAAGGAATATTTGAGAATTCATGCCTTGAAA  
+HWI-EAS443:3:100:1102:2005#0/1  
P\_a`T¥\_\_VKb¥\_bVVKaVXX`b\_aK]`bK\_GVab\_OU  
@HWI-EAS443:3:100:1617:660#0/1  
CATTAAGTACGATGACCAAAGATGCAGAGAGAGGCAAGTT  
+HWI-EAS443:3:100:1617:660#0/1  
]QQVaYH[`VYS^`T^b`TZY]¥VabaX¥^`Zba¥XYb  
@HWI-EAS443:3:100:763:1107#0/1  
CACCCAGGAATATTTGAGAATTTATGCCTTGAAACAATGG  
+HWI-EAS443:3:100:763:1107#0/1  
aaaba\_bbbbbbbbbbaa`b¥F^bba\_abbabZb\_aba  
@HWI-EAS443:3:100:777:1881#0/1  
TAATGCCAGCCCATGGTCCGCCAAAAGCATGGAATATGA  
+HWI-EAS443:3:100:777:1881#0/1  
abbaa`^^^a¥\_a`\_S`[aU\_aaaa`Ha¥[\_\_\_\_^\_aB  
@HWI-EAS443:3:100:810:2033#0/1  
ACTCCAATACTCATGTCAGCTGATTCATTTAGTCCAGACA  
+HWI-EAS443:3:100:810:2033#0/1  
a\_XY\_aa^aXaa\_\_W^`a^^¥]^\_0^¥¥¥SGX0]\_[^SB  
@HWI-EAS443:3:10:1122:508#0/1  
GAACGACTTCCATTGTTTCAAGGCATGAATTCTCAAATAT  
+HWI-EAS443:3:10:1122:508#0/1  
``Za`a]a]Y[\_bb`Y^aa]a`b[T`\_a¥FaY\_a`baY  
@HWI-EAS443:3:10:1225:503#0/1  
AGAAATTGCAACCGGTCTCCTATATGAACTGCTAGGGAAA  
+HWI-EAS443:3:10:1225:503#0/1  
a¥a`ba[^aa`\_TW`a^^a```a\_\_Za`]^^a\_`]`]  
@HWI-EAS443:3:10:144:349#0/1  
GGCCCCGACTGATGCCAGGGTCGACTTCGAGTCTGGACGG  
+HWI-EAS443:3:10:144:349#0/1  
a`a`ZXWJQ\_\_OZ¥^]a]S\_^¥PYU¥]V¥NNU\_ZUW¥^  
@HWI-EAS443:3:10:1471:995#0/1  
CTTTGATTGGGTTTGATCCACAGCTTCTTTAACCCAAAT  
+HWI-EAS443:3:10:1471:995#0/1  
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@HWI-EAS443:3:10:1535:663#0/1  
AGATAACAACCCACTTCCAAGAAAAAGGAGAGTAAGAGA  
+HWI-EAS443:3:10:1535:663#0/1  
abbbbbaaa\_aaa\_aaa\_aa\_a`\_\_aa`\_a\_a^`a`\_a  
@HWI-EAS443:3:10:1663:1248#0/1  
GGTGCATTCACTATGAGAGCAAATCGTGGGATGATTGGA

+HWI-EAS443:3:10:1663:1248#0/1  
`]MHMH¥[^G^¥SWY¥WY^H[ZXVBBBBBBBBBBBBBBBBB  
@HWI-EAS443:3:10:437:1513#0/1  
ATGATGGGCATGTTTAAACATGCTAAGTACGGTCTTGGGAG  
+HWI-EAS443:3:10:437:1513#0/1  
¥bb`a\_X`¥ab`aabb\_baababaaWaaZ[N^aaa`P[]  
@HWI-EAS443:3:10:768:622#0/1  
GTGTGTTCTGTTTACTGTGTCCATGGAGTATCCTGTTCCCT  
+HWI-EAS443:3:10:768:622#0/1  
a¥\_S\_¥¥W¥¥¥¥¥VWVW[N^WT¥WU¥[V[NUYVVVUWUWVW  
@HWI-EAS443:3:10:903:1083#0/1  
CTTTTCTGAGTATTGGCGTGTCTGTTTACTGTGTCCATG  
+HWI-EAS443:3:10:903:1083#0/1  
aaa]a]ab\_]QXYZabTa`a`aX`a^aa]V`\_^`]]]G\_a  
@HWI-EAS443:3:11:1643:1385#0/1  
GCCATTTTGTGGAGGACATTATGGGTGCCATGCTCAGGA  
+HWI-EAS443:3:11:1643:1385#0/1  
a`]WRa^\_OT\_UUa[GYY`]YZUQQNQ`¥KUBBBBBBBBBB  
@HWI-EAS443:3:11:55:192#0/1  
ATGGAATCAATGCACAAAGAGGAAATAGAGATAACAACCC  
+HWI-EAS443:3:11:55:192#0/1  
[abVO[b`\_^¥^I`¥aa¥\_[aaa¥[a`WaR^`\_¥W\_\_RP  
@HWI-EAS443:3:11:627:223#0/1  
CATGGGCTGGCATTACCACAGCGTTGTTTACAGAATCAAT  
+HWI-EAS443:3:11:627:223#0/1  
\_^`¥]`a`aaa]][^a`a`[VY\_a\_\_\_\_\_`\_\_\_\_]U]`^  
@HWI-EAS443:3:11:889:1521#0/1  
GTTGATTCCCACTAATTGCAGGTCCTGTAGAATATGTCC  
+HWI-EAS443:3:11:889:1521#0/1  
a`aZaSU`V^a0Q¥aaT[WUPbJXFFYZ\_a\_BBBBBBBBBB  
@HWI-EAS443:3:12:1387:1996#0/1  
ACCGGCAGCAACTGCATTGGCCAAAACCATAGAAGTCTTT  
+HWI-EAS443:3:12:1387:1996#0/1  
aa0`Y^\_\_G\_aY]GOGV^Q\_VVBBBBBBBBBBBBBBBBBBB  
@HWI-EAS443:3:12:1563:546#0/1  
CAAAATCGTCGGATGATTGGAGCCCATCCCACCTGTATAT  
+HWI-EAS443:3:12:1563:546#0/1  
I¥\_ab`a¥VQ`bbb`YZV\_Y\_¥UZZOT¥\_R^[Uab\_aa``  
@HWI-EAS443:3:12:197:43#0/1  
TGGTGGGATGGGCTCCAATCATCCGACGATTCGCTCTCA  
+HWI-EAS443:3:12:197:43#0/1  
^`a\_bbbaabbbZa`]\_aaabaa`aaab`aaa\_b][\_a\_  
@HWI-EAS443:3:12:405:274#0/1  
GTTAGTTTATCTACCCTTGTGTTGTTGAACGACTTCCATTG  
+HWI-EAS443:3:12:405:274#0/1  
aaa¥bS`\_a\_a\_\_`]ZQS[Z^]X^`TX]\_X]]^^XT¥^`  
@HWI-EAS443:3:12:434:758#0/1  
AAGTCGTTCAACAAACAAGGTTAGATAAACTAACTCAAGG  
+HWI-EAS443:3:12:434:758#0/1  
a]a\_aa`PaZ][`\_^]^a^aTZ^]X\_\_\_Y\_\_^\_]\_]WZ]

@HWI-EAS443:3:12:541:135#0/1  
TGCCCTTGCAACTACACATTCCCTGGATTCCCAAGAGGAAT  
+HWI-EAS443:3:12:541:135#0/1  
`baaaaZa^[``\_a\_a[\_¥Y^`]]\_ ^XYVX]]^\_]Y^XRX  
@HWI-EAS443:3:13:1047:356#0/1  
GAATCAGCTGACATGAGTATTGGAGTAAGTGTGATAAAGA  
+HWI-EAS443:3:13:1047:356#0/1  
aa`\_``\_ ^aa\_\_\_\_]`^`\_] ^\_]¥Y^^]]\_W^[][\_]Y  
@HWI-EAS443:3:13:371:2029#0/1  
TTCCCCTTTGGCTTGTGTTGAGAATAGAAAGATTCCCTCTT  
+HWI-EAS443:3:13:371:2029#0/1  
`a[]a¥aaZTT^Y]WITN` [VR]ZV`V^aG\_PNR¥MPQFL  
@HWI-EAS443:3:13:791:517#0/1  
GTTAGTTTATCTACCCTTGTGTTGTTGAACGACTTCCATTG  
+HWI-EAS443:3:13:791:517#0/1  
a\_\_\_\_aVa\_`\_ [\_U\_X\_a\_YT\_ [\_X[W[WYTNNQ\_UUT\_^^  
@HWI-EAS443:3:14:1038:2038#0/1  
AGACAACATGACCAAGGAGATGGTCACGCAAAGAACAATA  
+HWI-EAS443:3:14:1038:2038#0/1  
[]\_ []S\_STQ[\_Y\_WIR\_Y\_]WY\_`\_¥`Y¥\_Z\_ZO]Z[  
@HWI-EAS443:3:14:1171:322#0/1  
AGACAATATACTGGTGGGATGGGCTCCAATGATCCGACGA  
+HWI-EAS443:3:14:1171:322#0/1  
aaZSRPT¥Y¥^R]\_J]X`WS[¥[DPRVZUXGLWQVZFTYB  
@HWI-EAS443:3:14:124:2023#0/1  
GAATCTGTCCACTCCCGCTTGTATTCCCTCATGGTTTGGT  
+HWI-EAS443:3:14:124:2023#0/1  
Vbaba\_`NaabbV`bUb` [b\_UUZ]Jbaab\_N`b[aaaTP  
@HWI-EAS443:3:14:1488:1216#0/1  
CTCCAATTATCCGACGATTTTGCTCTCATAGTGAATGCAC  
+HWI-EAS443:3:14:1488:1216#0/1  
aabaaa[F]a`\_```a`aaaaaa\_a\_a`a¥]a`\_a` []]  
@HWI-EAS443:3:14:1626:1155#0/1  
AATGAACCAAGTGGGAATGCACAAACAGACTGTGTTCTAG  
+HWI-EAS443:3:14:1626:1155#0/1  
^Va]ZWOVIVa\_ZORLX]Y\_\_aPN¥LNPLP]ZYBBBBBBBB  
@HWI-EAS443:3:14:271:1435#0/1  
AGTAAACAGAACACACCACTACTCAGAAAAGGGAAAGTGG  
+HWI-EAS443:3:14:271:1435#0/1  
Vb\_ ^aZ`baababaa\_aa¥aaa` `aa`a[aa^¥^` ``G\_\_  
@HWI-EAS443:3:15:1593:193#0/1  
ATTTGAGAATTCATGCCTTGAACAATGGAAGTCGTTCAA  
+HWI-EAS443:3:15:1593:193#0/1  
abbbabbabbba`ba`\_^baaaaa\_a`a` `a`a[Sa^` [UP  
@HWI-EAS443:3:15:1682:531#0/1  
GATTCCTACTAAGTGCAGGTCCTGTAGAACTGTTCCTACT  
+HWI-EAS443:3:15:1682:531#0/1  
\_P\_ ^a]R\_aa¥RW`\_^X\_b^YRZ[VXJaR`\_BBBBBBBBB  
@HWI-EAS443:3:16:1164:275#0/1  
CAATGGAAGTCGTTCAACAAACAAGGGTAGATAAACTAAC

+HWI-EAS443:3:16:1164:275#0/1  
abbbbbbbbaab^`a¥aaa\_`aZaaI\_^[[^^\_\_NZ`\_G  
@HWI-EAS443:3:16:1374:115#0/1  
GCACAAACAGACTGTGTTCTAGAGGCTATGGCTTTTCTTG  
+HWI-EAS443:3:16:1374:115#0/1  
a`]U]S]Y]]ZZ]\_WY\_^W^]\_XZBBBBBBBBBBBBBBB  
@HWI-EAS443:3:16:1538:1257#0/1  
TGGAGCAAATGAATCAGCTGACATGAGTATTGGAGTAACA  
+HWI-EAS443:3:16:1538:1257#0/1  
aba`a\_ab\_aaa\_a\_^`^aa\_\_\_aa^aY`^aa\_[¥X^\_X^  
@HWI-EAS443:3:16:1550:325#0/1  
GGCACCTATATGTGTATCTGTAGTCTTTGATGAAAAATTG  
+HWI-EAS443:3:16:1550:325#0/1  
abaaa`bababb`b\_\_a\_ba\_`a^\_aaaa]`^¥ZDY\_a\_\_\_  
@HWI-EAS443:3:16:1645:1201#0/1  
CAATCCGACTCTACTTTTCCTAAAAATTCCAGAGCAAAT  
+HWI-EAS443:3:16:1645:1201#0/1  
`¥Y[`ab[YV^\_RS]TP¥¥[aZaXa\_aaTY]SGbZ\_¥\_\_\_\_  
@HWI-EAS443:3:16:298:703#0/1  
CTCCAATCATCCAACGATTTTGCTCTCATAGTGAATGCAC  
+HWI-EAS443:3:16:298:703#0/1  
a`aaa^Y¥a[]WDX^Y^\_Y`\_¥^]^XZN[UWZ]^]^Y  
@HWI-EAS443:3:16:736:1325#0/1  
CAGACTCGAAGTCGACCCTGGCATCAATCCAGGCCCTAGA  
+HWI-EAS443:3:16:736:1325#0/1  
]]\_aa][Y]]\_ZT\_Z\_\_VOQ¥UXW\_[^^^OMDWLUN¥PB  
@HWI-EAS443:3:17:1190:1836#0/1  
AAACAAAGACTGAATAAGAGAGGCTATCTAATAAAAGCAC  
+HWI-EAS443:3:17:1190:1836#0/1  
ab`a\_a`b`aaaa`\_aaaa^`^`\_GTYNRY[YFQXPYH  
@HWI-EAS443:3:17:449:1376#0/1  
CACCTATATGTGTCTCTGTAGTCTTTGATGAACAATTGAA  
+HWI-EAS443:3:17:449:1376#0/1  
a^`a`aa^`^a[\_a\_a`^\_\_Va]`^\_\_\_\_`\_\_\_\_]\_^\_\_a  
@HWI-EAS443:3:17:68:527#0/1  
CTTTTCCTAAAAATTCCAGCGCAAAGTGCCATAAGCACCA  
+HWI-EAS443:3:17:68:527#0/1  
`[ZbS\_bPSYTPR[T]\_[a]ZMWHYLL`^a]`WYTY`]OK  
@HWI-EAS443:3:18:1095:788#0/1  
GAACGACTTCCATTGTTTCAAGGCATGAATTCTCAAATAT  
+HWI-EAS443:3:18:1095:788#0/1  
a`bab\_aaabaaaa^a`a`\_aa```aa\_a`\_a`\_\_^`\_a  
@HWI-EAS443:3:18:386:1778#0/1  
ATGGGCTCCAATCATCCGACGATCTTGCTCTCATAGTGAA  
+HWI-EAS443:3:18:386:1778#0/1  
aW\_¥Y\_]``aba¥¥V\_^\_aaS\_aYXaa\_X\_P¥]`RKIDVa  
@HWI-EAS443:3:18:993:1683#0/1  
CCAGGTGTTGCGATAGCCCTTCTTTTAAAGTTGCCTCTCT  
+HWI-EAS443:3:18:993:1683#0/1  
aa[a^PLa¥ZSYQ]a\_a\_YVXTa]aa¥ZFFZ[\_^]P^SU^

@HWI-EAS443:3:19:1043:872#0/1  
CAATAGAAGAGCCATCTGGGCCGTTGCAGGTCCAAGGTCA  
+HWI-EAS443:3:19:1043:872#0/1  
ab`\_ba`aaa`\_]Z`\_`\_`\_`a¥`]S^a\_W`W`[[\_UT[  
@HWI-EAS443:3:19:1179:1695#0/1  
GTTAGTTTATCTACCCTTGTGGTTGAACGACTTCCATTG  
+HWI-EAS443:3:19:1179:1695#0/1  
`U`a^`¥`\_`\_`a`\_`\_`\_]\_\_\_¥`[^\_¥[U]\_Z¥^^^\_  
@HWI-EAS443:3:19:1386:1168#0/1  
TGTTGATTCCCTCTAACTTGCAGGTCCTGTAGAATCTGTC  
+HWI-EAS443:3:19:1386:1168#0/1  
`aaa`Raa`^\_aY`\_a`\_aa`\_a\_U[^aa]\_`\_]\_\_W`^YY  
@HWI-EAS443:3:19:666:107#0/1  
GGCATGTTTAACATGCTAAGTACGGTCTTGGGAGTCTCGA  
+HWI-EAS443:3:19:666:107#0/1  
\_aa`a¥Z[`b^b`b[`ba[aabab^abb\_a[`aaa`\_`G  
@HWI-EAS443:3:19:671:181#0/1  
AAAAATTCCAGCGCAAATGCCACAAGCACCATCCCT  
+HWI-EAS443:3:19:671:181#0/1  
aaab\_\_\_]X]a`a^W^\_¥]^XX[0^^]^\_\_XXZZ^XXOV]  
@HWI-EAS443:3:19:766:1775#0/1  
ATTTGAGAATTCATGCCTTGAAACAATGGAAGTCGTTCAA  
+HWI-EAS443:3:19:766:1775#0/1  
a]aaYab`aaaaaaaa`\_`\_`aa\_b[aa`\_¥`U[Z]RVZM  
@HWI-EAS443:3:19:783:232#0/1  
GTGGGTTGTTATCTCTATTTCTCTTTCTTCATTGATTCC  
+HWI-EAS443:3:19:783:232#0/1  
`¥`\_`^S\_]Z`V^Ya`\_`\_`\_]SWY¥W[JZ]W[\_[¥^]^UV  
@HWI-EAS443:3:1:1101:1912#0/1  
AAAAAACAAAGACTGAATAAGAGAGGCTATATAATAAGAG  
+HWI-EAS443:3:1:1101:1912#0/1  
¥aa`^^U`a`\_`a^aaW`\_`aaaa\_aa\_H`aFFU¥\_BBBBBB  
@HWI-EAS443:3:1:1442:1919#0/1  
AGTAAAAAGAACACACCAATACTCAGAAAAGGGAAAGTGG  
+HWI-EAS443:3:1:1442:1919#0/1  
¥aVLYaJ`ba0aa¥aH^b`a`SYU\_a^\_\_aa`\_`\_`^BBBBB  
@HWI-EAS443:3:1:182:551#0/1  
CCCAGGGGTTGCGATAGCCCTTCTTTTTAACTTGCCTCTC  
+HWI-EAS443:3:1:182:551#0/1  
V^¥\_a]GXUZ^^a`\_`^aTTZYXNWV`a¥WXX]X¥NBBBBB  
@HWI-EAS443:3:1:182:834#0/1  
ATCATGCATTAGCTCCCATTTAAGCAGACTTCAGGAATG  
+HWI-EAS443:3:1:182:834#0/1  
¥bQP^GRa\_bVb\_aa`a`¥`\_`aabaH`baWb`Wa`IRaBB  
@HWI-EAS443:3:1:363:195#0/1  
AAAGAAATCTCTGTGTCTTGTGAATTAGTCATCATGTTTC  
+HWI-EAS443:3:1:363:195#0/1  
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@HWI-EAS443:3:1:376:315#0/1  
TGTCCCCAGGGATTGTGAAAGAAATCTCTGTGTCTTGTGA

+HWI-EAS443:3:1:376:315#0/1  
¥[\_PWTVPYQ¥]SaZM`]a\_XHUVVWWTZ[WBBBBBBBBBBB  
@HWI-EAS443:3:1:539:1408#0/1  
GAACGACTTCCATTGTTTCAAGGCATGAATTCTCAAATAT  
+HWI-EAS443:3:1:539:1408#0/1  
aab`aaIaa`Xaaba^`aaaaa`aa\_\_a\_\_a\_XSRBBB  
@HWI-EAS443:3:1:696:1984#0/1  
CAAACACAGAGACTGGTGCACCCAGCTCAACACGATTGA  
+HWI-EAS443:3:1:696:1984#0/1  
[b[\_HX`baaaaa\_[H¥^^Z\_VZb\_\_a\_[`FDO[¥RaaB  
@HWI-EAS443:3:1:840:1381#0/1  
ACTCGAAGTCGACCCTGGCATCAATCAGGGCCCTAGACAC  
+HWI-EAS443:3:1:840:1381#0/1  
a]ZHab`\_TKZZ\_S^Zaaa¥YY]X]^G`Z¥ZGS\_aXBBBB  
@HWI-EAS443:3:1:906:643#0/1  
TTAGAGGTTTTCGTATACTTTGTTGAAAGTTTAGCTAGGAG  
+HWI-EAS443:3:1:906:643#0/1  
`¥aYL¥`WW]¥a\_X¥SHIYY][¥WJRDO[RLTBBBBBBB  
@HWI-EAS443:3:20:1013:396#0/1  
AATTTTTCCCTAGCAGTTCATATAGGAGACCGGTTAGAAT  
+HWI-EAS443:3:20:1013:396#0/1  
a[`abbW¥\_Zaaaa`^]\_`Z¥\_`^^QYb[`Z`a]]Ua`\_T  
@HWI-EAS443:3:20:1084:1483#0/1  
AGTTTATCTACCCTTGTGTTGTTGAACGACTTCCATTGTTT  
+HWI-EAS443:3:20:1084:1483#0/1  
aaaabbbaba`^`ab`ab`aa^]`aaaaa`\_\_a`^YaZ  
@HWI-EAS443:3:20:1269:98#0/1  
AACAATGGAAGTCGTTCAACAAACAAGGGTAGATAAACTA  
+HWI-EAS443:3:20:1269:98#0/1  
^a^ababbaaaZab\_XYa`Ia`X`\_\_a\_X^a^`¥`WZ^  
@HWI-EAS443:3:20:1415:1459#0/1  
ACCAGTCTCTGTGTTGTCGTCTACTTCCCTTTTCTGAG  
+HWI-EAS443:3:20:1415:1459#0/1  
aa^aa\_aa\_\_`^a^aa`0ZTZZ^XV`\_ZZ[\_`^^Q[]TY  
@HWI-EAS443:3:20:164:1208#0/1  
AACAATGGAAGTCGTTCAACAAACAAGGGTAGATAAACTA  
+HWI-EAS443:3:20:164:1208#0/1  
`abb````a`WX``\_WUI]PYa`W[]UTaGSJWY\_\_]FV]  
@HWI-EAS443:3:20:1716:575#0/1  
GATTCTTCAAGGAAAGCCATAGCCTCTAGAACAGAGTCTG  
+HWI-EAS443:3:20:1716:575#0/1  
a^aaV\_\_^\_Y`a`^V\_Z`\_Y¥PZ`X\_\_^]VUFXYR]Y  
@HWI-EAS443:3:20:812:1898#0/1  
GAACAACATGATAAACAATGACCTTCGACCTGCAACGGCC  
+HWI-EAS443:3:20:812:1898#0/1  
WV¥Z¥¥WZX]¥[bbb`abXP\_YDWZPJJS]VG¥bXX`^QUQ  
@HWI-EAS443:3:21:1601:1563#0/1  
CACTAACTTGCAGGTCCTGTAGAATCTGTGCACTCCTGCT  
+HWI-EAS443:3:21:1601:1563#0/1  
`\_^aa\_aaa\_aaa\_V`¥\_UN^\_^\_Y\_XZGMYRYORXTBB

@HWI-EAS443:3:21:386:1936#0/1  
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+HWI-EAS443:3:21:386:1936#0/1  
¥bb\_aa`\_[\_bb\_\_a]b\_abWaa\_aaZ\_^YKVY¥a^Z¥XN  
@HWI-EAS443:3:21:641:1286#0/1  
GGCTATCTAATAAGAGCACTGACATTAATAGGATGACCA  
+HWI-EAS443:3:21:641:1286#0/1  
`V¥U[^a` `SM¥IXLKZ¥SU`\_PX[X]¥YTXDZP^]BB  
@HWI-EAS443:3:22:1040:964#0/1  
TTTCTTTTGGCCAAGATTCAGTATCGAGACTCCCAAGACC  
+HWI-EAS443:3:22:1040:964#0/1  
`Y`U¥PX`\_F^Z]`\_\_¥YU]aZS^YP[\_W[\_`]V\_]YQXN  
@HWI-EAS443:3:22:423:1144#0/1  
AGGGGGCAATGAAAAGAAGCCAACTGGCAACTGTTGTG  
+HWI-EAS443:3:22:423:1144#0/1  
`¥]PW\_bZb¥`aab\_aaaaa`¥aa`aa]`aaaa\_`a]a  
@HWI-EAS443:3:22:510:259#0/1  
GTTTATCTACCCTTGTGTTGTTGAACGACTTCCATTGTTTC  
+HWI-EAS443:3:22:510:259#0/1  
a`aa`a\_aa`\_`a\_\_^`a\_`^`]Z`^]^^\_\_a[[]]  
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+HWI-EAS443:3:22:624:321#0/1  
`aaa`aa`\_`]aaaa\_`a]W^\_^¥\_¥\_`^a^`\_\_`¥`YUZ  
@HWI-EAS443:3:23:1328:673#0/1  
CACCCAGGAATATTTGAGAATGCATGCCTTGAACAATGG  
+HWI-EAS443:3:23:1328:673#0/1  
aba`aa`^a\_babaaa\_aaa`a`\_`a\_^`a`a`a]b\_\_a`  
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GGCCATGGTGTCTAGGGCCCGGTTGATGCCAGGGTCGAC  
+HWI-EAS443:3:23:1526:889#0/1  
\_a\_aaaa`^`[\_a\_\_`^`^`[`a\_]`a\_`a\_^`V¥\_`[^^^K  
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+HWI-EAS443:3:23:1674:1759#0/1  
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+HWI-EAS443:3:24:1068:585#0/1  
aaaaaaaa`\_aa`\_`\_\_aa^`Va^`¥^`a\_\_`a`aV\_¥\_^  
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+HWI-EAS443:3:24:131:1537#0/1  
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+HWI-EAS443:3:24:507:1448#0/1  
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+HWI-EAS443:3:24:541:931#0/1  
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+HWI-EAS443:3:24:651:732#0/1  
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+HWI-EAS443:3:25:1049:654#0/1  
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+HWI-EAS443:3:25:1086:1281#0/1  
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aaaaaaaa`aaaaaa\_a\_\_a¥aV`\_a[`aaa`aa`\_\_`\_\_[  
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+HWI-EAS443:3:25:1407:1378#0/1  
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+HWI-EAS443:3:25:1490:1453#0/1  
aaa]a`a\_\_ab``]a\_aa\_Z\_\_a\_\_\_```Ra`\_\_\_\_][Z]\_  
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+HWI-EAS443:3:25:1504:246#0/1  
a\_a[[\_ZL]UVL[U]aTZZVPYU^^ZWFNTRS¥SVMT^^  
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GAAGAATCCCACCCAGTAATATTTGAGAATTCATGCCTTG  
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G^]TN\_aa\_Z`a`]]URXX¥[\_^)`^^b)`\_U``ab`¥H^  
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a\_aaaaaaaaaaaa`^^`^^`^^`^\_[[\_^\_\_a\_aZ^^Y  
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@HWI-EAS443:3:26:957:1143#0/1  
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+HWI-EAS443:3:26:957:1143#0/1  
`^a¥T¥aa]GT`¥\_a\_X0[aaTa\_ZWTH^T¥]UXSLVZG\_  
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+HWI-EAS443:3:27:134:2016#0/1  
ab`ab`b][\_b\_`a[b]\_Ya`RaaZa\_b]`aaSRZR\_\_`¥  
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+HWI-EAS443:3:27:1376:1720#0/1  
a\_`¥TZ`aW`a^\_S\_X^]G)`¥Z0¥XU¥¥\_XS^Z^]WS^^  
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]¥[X0Z¥b¥`aTXU\_a^XZZaV\_HQ]HT¥Za`TG¥a\_TNY  
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+HWI-EAS443:3:28:1099:283#0/1  
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+HWI-EAS443:3:28:1134:1160#0/1  
JZY[Ya¥YR`^W\_ba^[bb\_`S`\_QY\_`^T[ZG]`ZOVa`  
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+HWI-EAS443:3:28:1744:897#0/1  
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+HWI-EAS443:3:28:585:283#0/1  
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a\_a^SZaa`]V]¥[\_a`a]\_[0¥G0^Z^X^¥U^\_[¥LYY¥  
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+HWI-EAS443:3:29:1413:1313#0/1  
\_b\_X\_^\_`Y``]baYb\_`\_TX¥`Y\_aaWUaa`\_a\_[ZBBB  
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+HWI-EAS443:3:29:522:210#0/1  
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aaaS\_\_a\_ZLF¥a¥^UXV^a\_\_Y\_G\_\_[HW]TQR[\_USOB  
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+HWI-EAS443:3:2:1723:1212#0/1  
^LJ^LUa]¥\_\_a\_RaJFS]LTXNU¥TVGVRSVV^RTTB  
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]aabb^^ZI[\_L\_b]``Ra\_]``a`¥]Y¥U``UVGb\_a]\_  
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+HWI-EAS443:3:2:414:687#0/1  
a\_\_`aa]a]X]L\_\_S[P\_\_\_\_\_Z\_[X]Y\_^ZZ\_^Z]YYB  
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+HWI-EAS443:3:2:515:925#0/1  
a\_\_a``\_]a``\_]`¥Wxa\_N\_]^Y\_V^^\_Y]`\_\_X]YXX  
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+HWI-EAS443:3:2:724:649#0/1  
S\_¥`aVa]a\_[PSVZHPb`[M]Taa¥¥R^a¥RQ¥`¥\_\_FT  
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CCTCCATCTGATACTAATAGCCCTACCTTTGATTGCGTTT  
+HWI-EAS443:3:2:990:947#0/1  
`a`babaL\_aaa`\_\_[^Yaa\_\_a`\_`¥aaa`\_]\_XaLR¥^  
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+HWI-EAS443:3:30:1362:229#0/1  
aaaaa^\_ab\_``bbb\_aa``\_aa]`a\_\_^``]a]¥]^a^a  
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+HWI-EAS443:3:30:1398:1043#0/1  
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aabbaaababba`\_`^aaaa^I^aa]aaa\_`aaa^[\_  
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+HWI-EAS443:3:31:344:821#0/1  
^Tabaa`baa[aaaRaaa`aaaa¥a\_aaa[\_a\_\_\_\_`\_a`  
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+HWI-EAS443:3:32:324:647#0/1  
aba`\_Ya^`a`^`a\_a```aa\_\_[¥]\_\_[^^^^W[]]^  
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GAACGACTTCCATTGTTTCAAGGCATGAATTCTCAAATAT  
+HWI-EAS443:3:32:910:1512#0/1  
ZVaaa]\_ba`aa]Z¥R]`]¥\_a^\_]`ab`]a¥aT`\_N¥]Y  
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ab\_abbaabaabbaa``aaa\_aa``a`\_`Za\_Z^a]a[a`  
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+HWI-EAS443:3:32:98:1059#0/1  
aaa]]a\_a`\_]\_```a]]aa`\_`^`\_`^`^]]]W[\_]`^]^^  
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+HWI-EAS443:3:33:1300:1505#0/1  
[``¥\_\_`Y`ba]]]Z\_Y``aaba¥XZ``abaaRbaaaX]X  
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+HWI-EAS443:3:33:1454:1364#0/1  
aaabbbbbbaa`a\_aa`aaa`aaa`]a\_]`\_\_]N\_VVZ]¥\_  
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+HWI-EAS443:3:33:225:215#0/1  
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+HWI-EAS443:3:33:470:928#0/1  
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+HWI-EAS443:3:34:117:1381#0/1  
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+HWI-EAS443:3:34:298:620#0/1  
QV\_^\_\_`a]^aZ\_] [X`^RFWY]\_O\_WZ]`\_XGOXZ\_R  
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GATTGATGCCAGGGTCAACTTCGAGTCTGGACGGATCAAG  
+HWI-EAS443:3:34:364:262#0/1  
aaaaba`aa^aa^W`]aa`\_a`¥`¥^^aZZZ\_\_ [¥W¥W  
@HWI-EAS443:3:34:677:1334#0/1  
GCAACTGCATTGGCCAACACCATACAAGTCTTTAGATCGA  
+HWI-EAS443:3:34:677:1334#0/1  
abb¥Z`a`\_¥[ZU^a` [b\_^S`VXQTN\_Y`a`]\_]¥[]Y^  
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+HWI-EAS443:3:35:276:1284#0/1  
¥^Y]L\_a]bZZYW^V[T` `[ `]TTZ` `X¥W¥YaYLMYOTR  
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QXbbba[¥`\_aa\_bbbbb`\_ba^[QaaaYJ`W\_\_RWWSYL  
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+HWI-EAS443:3:35:783:612#0/1  
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+HWI-EAS443:3:36:1298:861#0/1  
a¥`b]bbb`\_`¥G`b\_aaaaaabbaab]```P[ `aab` [\_  
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CCCGGATTGATGCCAGGGTAGACTTCGAGTCTGGACGGAT  
+HWI-EAS443:3:36:1595:2037#0/1  
`` `[bW]aba`b`X^P]^GL`]QXYGa¥aW`\_YJOU]\_V]  
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+HWI-EAS443:3:36:1757:1897#0/1  
\_`\_¥abYVaab][Zaaaa¥`[[[ `Z\_ZF[ `aWST\_^`\_X]  
@HWI-EAS443:3:36:490:1697#0/1  
GAAGAATCCCACCCTGGAATATTTGAGAATTCATGCCTTG  
+HWI-EAS443:3:36:490:1697#0/1  
abb¥\_babbabaa\_aZ[ `b`aaa^b]a^aaaa`ab`\_`a  
@HWI-EAS443:3:36:703:170#0/1  
GTTCTGTTTACTGTGTCCATGGGGTATCCTGTTCTGTTCT

+HWI-EAS443:3:36:703:170#0/1  
UYZa\_b\_\_`\_Y[¥]a[bb`^]bGa]PUXV¥WN][`Z`MV]  
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GCCAGGGTCGACTTCGCGTCTGGACGGATCAAGAAAGAAG  
+HWI-EAS443:3:36:81:1882#0/1  
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+HWI-EAS443:3:37:1060:1485#0/1  
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+HWI-EAS443:3:37:1261:1688#0/1  
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+HWI-EAS443:3:37:1278:923#0/1  
X\_a`V````aaa`a^¥X\_^`\_I\_aaYSUJHT\_P\_V`]QV  
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+HWI-EAS443:3:37:1496:275#0/1  
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+HWI-EAS443:3:37:1685:547#0/1  
aba`¥ba\_]b\_a```\_`^Z\_\_a\_`a`ZaG^`\_`^^Z\_Z^  
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+HWI-EAS443:3:37:1698:786#0/1  
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@HWI-EAS443:3:37:185:775#0/1  
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+HWI-EAS443:3:37:185:775#0/1  
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+HWI-EAS443:3:37:445:1928#0/1  
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+HWI-EAS443:3:37:614:1366#0/1  
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+HWI-EAS443:3:37:678:459#0/1  
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@HWI-EAS443:3:37:708:1928#0/1  
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+HWI-EAS443:3:37:708:1928#0/1  
`aaa[bPY\_ba\_a\_aa\_\_a\_a^\_a`¥FJWa\_a`YYYaWP  
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+HWI-EAS443:3:38:1017:1964#0/1  
a\_ZS¥¥¥]\_YF^aa``][0][Xbba¥ZQOILFXIQT^]]0  
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CACTAACTTGCAGTCTGTAGAATCTGTCCACTACTGCT  
+HWI-EAS443:3:38:1521:2023#0/1  
a\_`^]ab```OWa\_]¥^\_`a¥S¥b]0^`[QP¥NXHTVVQS  
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+HWI-EAS443:3:38:29:1279#0/1  
a`a`P``[W\_`ZY`\_^YYS[R¥¥PR^]S¥W[RL[QQVXYS  
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+HWI-EAS443:3:39:1502:1881#0/1  
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+HWI-EAS443:3:39:1670:579#0/1  
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+HWI-EAS443:3:39:196:313#0/1  
aaV^aa```]]¥[W[TF^R\_^UPO]\_`¥^\_NPU^\_XY\_\_[  
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+HWI-EAS443:3:39:240:1261#0/1  
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CAGAAATCAACCGCAGCAACTGCATTGCCAACAGCATA  
+HWI-EAS443:3:39:256:184#0/1  
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+HWI-EAS443:3:39:583:117#0/1  
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+HWI-EAS443:3:39:952:1638#0/1  
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+HWI-EAS443:3:3:1556:1959#0/1  
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+HWI-EAS443:3:3:163:1555#0/1  
T\_YQWabX`]\_bRY\_YUQ[T```XS\_bYDRbWF^^J[Y[`  
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+HWI-EAS443:3:3:1668:1539#0/1  
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+HWI-EAS443:3:3:1784:1124#0/1  
a`bababbbbbb\_bbaU`bbaa\_babaaaa`aW]YLYY^\_  
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+HWI-EAS443:3:3:216:523#0/1  
`ab`aa`a`a`\_\_\_\_`a¥a\_U`\_\_`^a^]`a¥\_X``X`\_\_¥  
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+HWI-EAS443:3:3:857:1069#0/1  
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+HWI-EAS443:3:40:1006:1243#0/1  
a\_]YHU`ab]W¥R```a[Q[\_Y\_QMSW¥TVXS¥a^`YR[[  
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+HWI-EAS443:3:40:1563:1008#0/1  
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+HWI-EAS443:3:40:1690:1510#0/1  
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@HWI-EAS443:3:40:604:477#0/1  
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+HWI-EAS443:3:40:604:477#0/1  
a\_b` `\_`\_aba^a^`a^ZYDO^[LQJSU\_¥\_^^¥^\_\_\_\_  
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+HWI-EAS443:3:40:611:809#0/1  
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+HWI-EAS443:3:40:754:307#0/1  
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+HWI-EAS443:3:42:24:468#0/1  
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+HWI-EAS443:3:42:262:1686#0/1  
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+HWI-EAS443:3:42:401:1492#0/1  
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+HWI-EAS443:3:42:802:950#0/1  
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+HWI-EAS443:3:43:1659:1824#0/1  
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+HWI-EAS443:3:43:475:776#0/1  
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+HWI-EAS443:3:43:480:1380#0/1  
aa\_aaaaabb\_X]a]US]Z\_^]PX]Q]a[QX`V^YZVU^¥  
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+HWI-EAS443:3:43:561:325#0/1  
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+HWI-EAS443:3:43:959:955#0/1  
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+HWI-EAS443:3:43:98:1713#0/1  
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+HWI-EAS443:3:44:1104:983#0/1  
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+HWI-EAS443:3:44:176:173#0/1  
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@HWI-EAS443:3:44:432:392#0/1  
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+HWI-EAS443:3:44:432:392#0/1  
a`aaa\_a`aa`ababW\_a`a]aa``\_W``\_`^\_]``\_\_  
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+HWI-EAS443:3:44:686:447#0/1  
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+HWI-EAS443:3:45:1256:1372#0/1  
\_`I¥a\_a`b^¥`\_\_Q\_aaa`T\_baZV`\_`QaTN\_`V^Y^\_  
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+HWI-EAS443:3:45:1310:1376#0/1  
a`\_\_Za\_a`a]aY\_aa]\_``\_\_a\_^]\_^[LDPY]NTWNT  
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+HWI-EAS443:3:45:398:1963#0/1  
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@HWI-EAS443:3:46:1073:1457#0/1  
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+HWI-EAS443:3:46:1073:1457#0/1  
a^abbaaba\_Z\_aa]aa```\_^a`a]\_`aaa\_aa^\_^\_[^  
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+HWI-EAS443:3:46:1084:572#0/1  
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+HWI-EAS443:3:46:1681:388#0/1  
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+HWI-EAS443:3:46:325:1672#0/1  
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+HWI-EAS443:3:46:646:1548#0/1  
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+HWI-EAS443:3:46:681:1956#0/1  
aa`Yaabb`bbaaaaa`aaaaaaa`a`¥DX\_\_aZaa^  
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+HWI-EAS443:3:46:721:1437#0/1  
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aa`a\_\_V`[`]Z^\_\_a^[\_^^]a¥^\_`BBBBBBBBBBBB  
@HWI-EAS443:3:47:1199:265#0/1  
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+HWI-EAS443:3:47:1199:265#0/1  
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+HWI-EAS443:3:47:351:1688#0/1  
ab\_\_aa\_ababa¥`a`\_^\_aa`W^`¥`^XYFO\_\_S[\_Z```  
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@HWI-EAS443:3:49:720:1741#0/1  
GACTAGGGAAAGGGTACATGTTTCGAGAGCAAAGAATGAA  
+HWI-EAS443:3:49:720:1741#0/1  
SYRXYXTSXWP]Z¥`ba\_]WHSQHQSZSZGUIQ^a]WYOXW  
@HWI-EAS443:3:49:961:1102#0/1  
GAGCTAATGGATGATGACTATCGGGGAAGACTTTGTAATC  
+HWI-EAS443:3:49:961:1102#0/1  
aaaabbabba`ba`aaa`ba`¥\_aaa`[\_`^aaaa^``\_Z  
@HWI-EAS443:3:49:992:1676#0/1  
ATTGGAGCCCATCCCACCAGTATATTGTCTTTGTGTATTT  
+HWI-EAS443:3:49:992:1676#0/1  
aXaX`SZ]YZbba¥^a¥W]b]aa\_b`P`a\_I`Sxa`a\_  
@HWI-EAS443:3:4:1157:909#0/1  
TAAAAATTCCAGCTCAAATGCCATAAGCACCATTTCCC  
+HWI-EAS443:3:4:1157:909#0/1  
`bba`a`]W[ZMMYa]SZaaY¥Za\_\_^`\_\_\_\_]^Z^WOQ  
@HWI-EAS443:3:4:1352:588#0/1  
GCACTGACATTAATACGATGAGCAAAGATGCAGAGAGAG  
+HWI-EAS443:3:4:1352:588#0/1  
a[`W\_\_[L]a\_aW^^^I^^S\_MKRZnz`]W]UVaXXW^Z^  
@HWI-EAS443:3:4:292:894#0/1  
AATTGAAGAGCCATCTGGGCCGTTGCAGGACCAAGTCAT  
+HWI-EAS443:3:4:292:894#0/1  
aaaaaa]]Z^]\_\_`XKXKU\_BBBBBBBBBBBBBBBBBBBB  
@HWI-EAS443:3:4:627:2026#0/1  
GACTCATTAGCTGTTAGGCCATTTCGATCTAAAGAATTCTA  
+HWI-EAS443:3:4:627:2026#0/1  
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@HWI-EAS443:3:4:797:1434#0/1  
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+HWI-EAS443:3:4:797:1434#0/1  
a\_L]aXW\_a^^]\_\_R\_\_`0`^\_\_\_R`¥^U]\_^G]]^J¥ZB  
@HWI-EAS443:3:4:914:849#0/1  
ATTTGAGAATTCATGCCTTGAAACAATGGAAGTCGTTCAA  
+HWI-EAS443:3:4:914:849#0/1  
abbbabbaabaaaabaababa`a\_a\_`V``aa]`\_^`Y\_`  
@HWI-EAS443:3:50:1013:1441#0/1  
GTTCTGTTTACTGTGTCCATGGTGTATCCTATTCCTGTTC  
+HWI-EAS443:3:50:1013:1441#0/1  
a]^\_]XN\_]\_[\_aX`]^[^^`\_U[NUXS¥YR]]R[¥\_VZS  
@HWI-EAS443:3:50:517:174#0/1  
GTTCAAAAACATCCTGAGCATGGCACCCATAATGTTCTCA  
+HWI-EAS443:3:50:517:174#0/1  
a\_^0[a````\_a^]TQ\_Y\_Z^PZ[^^Z^\_VY[]\_\_TSS[0Z  
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GTGGGATGAGCTCCAATCATCCGACGATTTTGCTCTCATA  
+HWI-EAS443:3:50:68:1029#0/1  
a``ba`aa````aaa`aa`a`\_]````a\_`aaaa\_^^\_¥\_`^`  
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GAACGACTTCCATTGTTTCAAGGCATGAATTCTCAAATAT  
+HWI-EAS443:3:51:483:688#0/1  
`aaabaaab`abbbabb````bb`babbaaa[baaaaaaa  
@HWI-EAS443:3:51:594:258#0/1  
CTCCAATACTCACGTCAGCTGATTCACTTACTCCAGACAC  
+HWI-EAS443:3:51:594:258#0/1  
abaabbaaaaabab`^bb\_bba`b``bbb```aaaaba```a  
@HWI-EAS443:3:51:612:1492#0/1  
CCTTTGTCAGTCATAAAGAGATTGATTCTGTAAAAAATGC  
+HWI-EAS443:3:51:612:1492#0/1  
X`baa`[SS````a`]R^babbaabab`aaYyb\_WF^aXXZ  
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GTTAGTTTATCTACCCTTGTGGTTGAACGACTTCCATTG  
+HWI-EAS443:3:52:1321:658#0/1  
a\_aa]]aa]\_\_\_\_\_]]^a^X^`\_Y¥XUYVRVS^\_¥X¥¥^\_  
@HWI-EAS443:3:52:1532:13#0/1  
AGCCTCTTTTATTCAGTCTTTGTTTTTTCTTCCCTATTGT  
+HWI-EAS443:3:52:1532:13#0/1  
V\_b^VW^OY`R`a¥S[Z¥\_aT^X[bbb¥S[V^Z[ZSb\_J\_  
@HWI-EAS443:3:52:224:491#0/1  
GGCTCCAATCATCCGACGATTTTGCTCTCATGGTGAATGC  
+HWI-EAS443:3:52:224:491#0/1  
aaa^^[ORJUSWSN[\_[¥NSURX\_Y[NVSST¥VOXYT]RH  
@HWI-EAS443:3:52:237:1532#0/1  
GTTCTGTTTACTGTGTCCATGGTGCATCCTGTTCCTGTTC  
+HWI-EAS443:3:52:237:1532#0/1  
`¥`bab\_aaa``b\_a`a]``¥][a¥Xaa\_\_aa`Ua¥TNW^  
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CTAATGGATCATGATTATCGGGGAAGACTTTGTAATCCCC

+HWI-EAS443:3:52:607:662#0/1  
aa¥\_bbba\_`X^[\_`a`ZY]\_YVVYTSY¥\_SZZ\_YWT[X  
@HWI-EAS443:3:52:848:496#0/1  
GTCCTCCATCTGATACTAATAGCCTTACCTTTGATTGGGT  
+HWI-EAS443:3:52:848:496#0/1  
Y\_WVXO[Q`VYUW`ZYX[Y]PFI¥]WKS]X\_`[O¥Y¥G  
@HWI-EAS443:3:53:102:109#0/1  
TGTGTTCTGTTTACTGTGTCCATGGGGTATCCTGTTCTCTG  
+HWI-EAS443:3:53:102:109#0/1  
aa¥ba^S\_bJ\_WaW^aS\_NYRRO[^P¥SZS[KP[KKTSSR  
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TAAGAGTCAACATGACCAAGAAGATGGTCACGCAAAGAAC  
+HWI-EAS443:3:53:1091:268#0/1  
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@HWI-EAS443:3:53:1220:532#0/1  
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+HWI-EAS443:3:53:1220:532#0/1  
a```\_R¥]aaa`0^Y`^^\_adWaa\_\_`aa\_[a]Xaaa]  
@HWI-EAS443:3:53:1305:2035#0/1  
GAATCCCCTTTGGCTTGTGTTGGGAATAGAACGATTCCT  
+HWI-EAS443:3:53:1305:2035#0/1  
a`N¥[\_abaaaa\_Y^bZT\_b\_a]H¥ZaV^aaQGx^SYRLV  
@HWI-EAS443:3:53:1544:1577#0/1  
CGACGATTTTGTCTCATAGTGAATGCAACAAACCATGAG  
+HWI-EAS443:3:53:1544:1577#0/1  
ZaY\_ba¥`¥ab`X`b\_K\_Z`\_bbb`aK¥b[¥aI[bbZ\_  
@HWI-EAS443:3:53:1771:1565#0/1  
GATGGCTCTTCAATTGTTCCACCAAAGACTACAGATACACA  
+HWI-EAS443:3:53:1771:1565#0/1  
aaabaaaaaX[¥aa`\_T]\_X^`¥X¥W[\_`Z^[¥^U¥X¥  
@HWI-EAS443:3:53:211:183#0/1  
TAGCTGTTAGGCCATTTCGACCTAAAGACTTCTATGGTGTT  
+HWI-EAS443:3:53:211:183#0/1  
abaaaa]aa`[VT^a`[\_`V\_\_\_^Z[FR\_\_VWVU[^WTUW  
@HWI-EAS443:3:53:360:2037#0/1  
AGTTTATCTACCCTTGTGTTGTTGAACGACTTCCATTGTTT  
+HWI-EAS443:3:53:360:2037#0/1  
aa`bab^ba`aX\_`a^aaa\_\_`aa`\_^\_\_`\_\_\_\_a`][^  
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AAAGAAATACACCAAGAGAATATACTGGTGGGATGGGCTC  
+HWI-EAS443:3:53:565:1796#0/1  
abb^bbbbbababYD^aaaa`aaaa¥bbaY\_¥^`¥]`  
@HWI-EAS443:3:53:728:787#0/1  
GTGTGTTCTGTTTACTGCGTCCATGGTGTATCCTGTTCTCT  
+HWI-EAS443:3:53:728:787#0/1  
a`a`babab`aaaa^aaP\_\_a`\_ab^Ua[aaY\_aa¥\_aZ`  
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+HWI-EAS443:3:53:811:1243#0/1  
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+HWI-EAS443:3:54:1558:408#0/1  
ab\_aa\_[a\_\_a\$]aa\_a\$^]^^]aa`G\_`^\_\_aZ`\_W  
@HWI-EAS443:3:54:361:1342#0/1  
GGCAAGACTAGGAAAGGCACATGTTTCGAGAGTAAAAGA  
+HWI-EAS443:3:54:361:1342#0/1  
aa\_Zaa00`Q\$[^`\_Z^a^Ma\_J^a[R\_a^U\_]``\_\_a\_  
@HWI-EAS443:3:55:1162:501#0/1  
CTCTTCGATTGTTTCATCAAAGACTACAGATACACATATAG  
+HWI-EAS443:3:55:1162:501#0/1  
ababbbb`bbaabaab`baabaaaa`aba`aab`aabaaa  
@HWI-EAS443:3:55:1337:414#0/1  
TGGGTGCGATTCTTCAAGGAAAGCCATAGCCTCTAGAACA  
+HWI-EAS443:3:55:1337:414#0/1  
\$\$\_XS[FY\$]U\$UXUPO^b`aaa\_0`^`^]KXZ]]\$`\_W\$  
@HWI-EAS443:3:55:1425:1172#0/1  
GATTGATGCCAGGGTCGACTTCGAGTCTGGAGGGATCAAG  
+HWI-EAS443:3:55:1425:1172#0/1  
a`b\$K^QHLI`\_SIQ\_URbYY\_WVRa[[H\$a\_YUMKSV  
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GTTGATCCCACTAACTTGCAGGTCCTGTAGAACCTGTCC  
+HWI-EAS443:3:55:857:165#0/1  
aaaa\$aa^[]a^a\_\_\_\_aaQ[a]]X]\_\_]^\_ZVSV^`XXZ  
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CCCCAGTGATTGTGAAAGAAATCTCTGTGTCTTGTTAATT  
+HWI-EAS443:3:56:1084:605#0/1  
aa[\_abY`QWa]L]]Z\$M0[]VW\$`XX[PZ\_]VGQTR]  
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+HWI-EAS443:3:56:1314:1298#0/1  
aa\_a\_]\_ab^aaaa^\_\_a\_`a`X\_\_aaU]a\_a`Z]^]^^  
@HWI-EAS443:3:56:1638:737#0/1  
GATAGCCTCTTATTTCAGTCTCTGTTTTTTCTTCCCTAT  
+HWI-EAS443:3:56:1638:737#0/1  
aU\_S[ZS`\_aV\_aZaa\_\_`X\_`Xaa^\_a`ba[`a\$[]][`  
@HWI-EAS443:3:56:1653:1368#0/1  
GTTTATCTACCCTGTTTGTGAACGACTTCCATTGTTTC  
+HWI-EAS443:3:56:1653:1368#0/1  
a`aa`a`ba`\_\_aaa^`a\_`a\_]a]Y`aY^`a`a]\_`X  
@HWI-EAS443:3:56:530:377#0/1  
CATGGAGCTACCCAGCCTTGGAGTGTCTGGAGTAAATGAA  
+HWI-EAS443:3:56:530:377#0/1  
aa]\_a`baba`ba\_aa\_a^\_a]a]b]\_aaa]\$[Y`\_`a\_^  
@HWI-EAS443:3:56:927:672#0/1  
GCCAGGGTCGACTTCGAGTCTGGACAGATCAAGAAAGAAG  
+HWI-EAS443:3:56:927:672#0/1  
aaa]\_aa\_baa`Xa][FUH\_a``LZRWJJP\$YZV^^]X]\_  
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+HWI-EAS443:3:57:1747:920#0/1  
X`abXZPPRP`WTZ^S^\_`^VW¥HUT` `YIXR[UMGXZBBB  
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CACTAACTTGCAGGTCCTGTAGAATCTGTCCACCCCTGCT  
+HWI-EAS443:3:57:272:805#0/1  
`aU¥N]a`\_b`^\_[Xa[U\_[` `]SU¥aa¥X¥\_WIR]^X¥B  
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ATTGATGCCAGGGCCGACTTCGAGTCTGGACGGATCAAGA  
+HWI-EAS443:3:57:377:1469#0/1  
abYXbXSV^aaaRF¥[]\_a`\_^^`Y\_¥`\_`X^]¥¥][\_Z\_  
@HWI-EAS443:3:57:661:290#0/1  
AATGTGTAGTTACAACGGCATCATATCCATGCTTTTGGC  
+HWI-EAS443:3:57:661:290#0/1  
aab\_\_ba`baba`Ua`[\_VZa\_a`^`^P[Y`¥OWa` `a\_Y  
@HWI-EAS443:3:58:1089:1170#0/1  
ATCACTGAGTCCTGGGATGATGATGGGCATGTTAACATG  
+HWI-EAS443:3:58:1089:1170#0/1  
aa¥IUTZ0]\_\_^aa` `Z\_a\_Z]]Y] `U\_Z[\_SOYUX[a  
@HWI-EAS443:3:58:1169:270#0/1  
AGCAGGAGTGGACAGACTCTACAGGACCTGCAAGTTAGTG  
+HWI-EAS443:3:58:1169:270#0/1  
a¥][aWUaW` ¥`Z^¥UG[^XSNVY^]YX\_ZUMV`U]XZP¥  
@HWI-EAS443:3:58:573:1084#0/1  
GTCTTGGGAGTCTCGATACTGAATCTAGGACAAAAGAAAT  
+HWI-EAS443:3:58:573:1084#0/1  
\_UI]SO[[[VTQZXOHHZ^LUSN¥MSYW^TZVLVY[TUaQ  
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+HWI-EAS443:3:58:642:574#0/1  
aXbba[aaaaa\_baaY^a`aaaaa` `¥aWaa\_a[]a`\_`^  
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+HWI-EAS443:3:58:916:975#0/1  
\_`a`abbaaaa\_aa`a\_aaa`\_a\_a`\_aa\_\_a[]^X]Z]]  
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+HWI-EAS443:3:59:1062:1901#0/1  
`b`]]aa`]¥^`a\_a]ZP^`Z\_\_XYS`^`SLSY\_]HHTWT  
@HWI-EAS443:3:59:1491:438#0/1  
GATGCCAGGGTCGACTTCGAGTCTGGACGGATCAATAAAG  
+HWI-EAS443:3:59:1491:438#0/1  
` `a]LYSYX]Pa]^Y\_S^]ZV¥YY¥[ `¥]PQZ^^IR[VJ  
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+HWI-EAS443:3:59:1654:1487#0/1  
¥b^ab]`baa`\_aaaa`a\_TY^¥aaaaaa]\_FQTY]LV][  
@HWI-EAS443:3:59:269:840#0/1  
GGAAGTCGTTCAACAAACAAGGGTAGATAAACTAACTCAA  
+HWI-EAS443:3:59:269:840#0/1  
^Y¥Q¥¥`aT` `aaa`a]]Y]]¥¥`a^Z^¥^R^\_]MX¥^^



@HWI-EAS443:3:59:302:1134#0/1  
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+HWI-EAS443:3:59:302:1134#0/1  
`bbbb\_T¥bb` ] `ab\_aaaa\_]Y\_a` `a` `TZ\_SM\_SV  
@HWI-EAS443:3:59:711:522#0/1  
GTGGGATTCTCCAAGGAAAGCCATAGCCTCTAGAACACAG  
+HWI-EAS443:3:59:711:522#0/1  
`R]YYRX\_XYXJYYW[T[[00]\_\_Za[^[]USVTNR\_[T  
@HWI-EAS443:3:59:80:1166#0/1  
TGTAGAATCTGTCCACTCCTGCTTGTATTCCCTCACGGTT  
+HWI-EAS443:3:59:80:1166#0/1  
a`aaa\_]aaab\_a\_a\_\_\_`[Z\_\_`¥\_```aV^\_]X^]G]  
@HWI-EAS443:3:5:1183:1213#0/1  
ATCACTGAGTCCTGGGATGATGATGGGCATGTTTAAACATG  
+HWI-EAS443:3:5:1183:1213#0/1  
abaa\_bbab]`\_`baa\_aaaba\_\_\_V`^`\_bYa\_`Z¥\_[a  
@HWI-EAS443:3:5:1257:313#0/1  
ATTTGAGTTAAAGAAGATGTGGGATCAAACCAATCAAAG  
+HWI-EAS443:3:5:1257:313#0/1  
a]^W¥V\_\_b` [ `a`YSF\_UN]^aUZLXTVBTTTTTTTTTTT  
@HWI-EAS443:3:5:1270:1500#0/1  
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+HWI-EAS443:3:5:1270:1500#0/1  
abbaabbbabbbbaabbbbabbaabXQDRF^aWXS\_RL]VP  
@HWI-EAS443:3:5:1292:15#0/1  
ACCTAAAGTACTTCAATGAATCAACAAAGAAGAAAATTGA  
+HWI-EAS443:3:5:1292:15#0/1  
a^aabaab[ `X` ` ` abbb`aaR]\_Y` ]\_a\_\_a^]]\_\_`\_^  
@HWI-EAS443:3:5:136:583#0/1  
CCCCAGTGATTGTGAAAGAAATCTCTGTGACTTGTGAATT  
+HWI-EAS443:3:5:136:583#0/1  
` `a`^¥abaaab`Y`\_` ]¥]a`aa\_\_ZY\_R[Z^¥LT[BBB  
@HWI-EAS443:3:5:189:1506#0/1  
GCGAAAAGCTTGAACAGTCTGGGCTCCCAGTAGGTGGCAA  
+HWI-EAS443:3:5:189:1506#0/1  
ab]¥YX¥XVabTaJVT\_P]X]Q^bZJab\_]W`LYG^UL`X  
@HWI-EAS443:3:5:264:884#0/1  
AGTTTATCTACCCTTGTGTTGTTGAACGACTTCCATTGTTT  
+HWI-EAS443:3:5:264:884#0/1  
ababaaaab` `aaaabaaaa\_aa¥a\_a\_[\_a\_a`aaa\_\_a  
@HWI-EAS443:3:61:1504:1936#0/1  
CTTTCCTTGAAGAATCACACCCAGGAATATTTGAGAATTC  
+HWI-EAS443:3:61:1504:1936#0/1  
aaba\_\_aX^X`¥\_V`aa`a`bbababbbbaa[ `a\_T` ` `a`W  
@HWI-EAS443:3:61:198:811#0/1  
CGAGACTCCCAAGACCGTACTTAGCATGTAAACATGCCC  
+HWI-EAS443:3:61:198:811#0/1  
abb\_^bb^^^aa\_aabYZ]aU^` `K^aaa\_XZR`^VTSF  
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+HWI-EAS443:3:61:318:1355#0/1  
a`\_\_\_\_`a`]\_]Za]\_aaaXR^aTNXF]\_^RY`^]\_U^Z¥Z  
@HWI-EAS443:3:61:518:673#0/1  
CTCCAACCATCCGACGATTTTGCTCTCATAGTGAATGCAC  
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abbbbbbbabbabbbbabab`bbbbbbbaabbS]a`aaaa]  
@HWI-EAS443:3:61:920:1271#0/1  
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+HWI-EAS443:3:61:920:1271#0/1  
aa`a`a`a`a`a`\_aaaaTaa\_^R[\_\_\_a\_\_^`\_¥]YVU  
@HWI-EAS443:3:62:1123:1832#0/1  
GGAAAGTGGACGACAAACACAGACACTGGTGCACCCAGC  
+HWI-EAS443:3:62:1123:1832#0/1  
`bJ`\_Ta`ababbJb`]`b`QUHZ\_]bXaaaaXRDDU[]  
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CACTAGGTTATTATCCTCAGGTAGTGGTCCATCAATCGG  
+HWI-EAS443:3:62:226:782#0/1  
a]aaabaNaaaaaaaaa\_aaaa¥aa¥`^N\_\_[^\_^\_¥\_\_\_\_  
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+HWI-EAS443:3:62:406:872#0/1  
aaa[a\_aaaa\_`aa`a`a`Z`a]YW^Z[``\_[-^`\_`^\_\_  
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+HWI-EAS443:3:62:656:1073#0/1  
aba`^b`bbbb]baa]a^abaaaba\_aaaa^`\_`Ya^\_a  
@HWI-EAS443:3:63:1072:1270#0/1  
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+HWI-EAS443:3:63:1072:1270#0/1  
^^abb¥¥0aW`]¥RR^RLYY[^^UXWYU0a\_] ^BBBBBB  
@HWI-EAS443:3:63:1122:1544#0/1  
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+HWI-EAS443:3:63:1122:1544#0/1  
[¥0VbbaZaabU`a^\_bb`\_Z\_T\_]aU\_SDY`]ZZaaa]  
@HWI-EAS443:3:63:1148:1159#0/1  
AAAATTCCTGCGCAAATGCCATAAGCACCATTCCTT  
+HWI-EAS443:3:63:1148:1159#0/1  
`]SZ]a\_^`a¥]W\_aaa`^[¥]`a[X\_^T^`^`\_`\_\_RTS\_\_  
@HWI-EAS443:3:63:312:1498#0/1  
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+HWI-EAS443:3:63:312:1498#0/1  
a`V]GU[NZ`\_`S^TQVYPKMYT¥V]NXOJUM[BBBBBBB  
@HWI-EAS443:3:63:399:1989#0/1  
ATGCACAAACAGACTGTGTTCTAGAGGCTAAGGCTTTCCT  
+HWI-EAS443:3:63:399:1989#0/1  
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@HWI-EAS443:3:64:1384:1316#0/1  
TGAACGACTTCCATTGTTTCAAGGCATGAATTCTCAAATA  
+HWI-EAS443:3:64:1384:1316#0/1  
abaa`baaabaaaaab\_a`\_a\_aa\_\_aa\_Uaa\_\_\_\_\_

@HWI-EAS443:3:64:1685:1701#0/1  
CTAGGGCCCCGATTGATGCCAGGGTGGACTTCGAGTCTGG  
+HWI-EAS443:3:64:1685:1701#0/1  
R\_^\_^\V¥VX\_`a\_PVTUPH\_U][ZSR[TUTH\_\_[UO\_]B  
@HWI-EAS443:3:64:576:492#0/1  
GGAAGTCGTTCAACAAACAAGGGTAGATAAACTAACTCAA  
+HWI-EAS443:3:64:576:492#0/1  
aaXaa^abX^]R`XX[`G`¥^^aJ\_\_JH¥\_a]¥\_\_¥WZ]^  
@HWI-EAS443:3:65:1024:1191#0/1  
GTTTATCTACCCTTGTGGTTGAACGACTTCCATTGTTTC  
+HWI-EAS443:3:65:1024:1191#0/1  
a\_aaaa`a\_`\_\_\_\_a\_\_\_a]^`\_^\_Y]a\_\_\_\_`a\_`Z^]\_  
@HWI-EAS443:3:65:124:1004#0/1  
GTTTATCTACCCTTGTGGTTGAACGACTTCCATTGTTTC  
+HWI-EAS443:3:65:124:1004#0/1  
a)`]Z\_a^]a`a\_`^[^¥]¥\_\_^`\_¥¥\_^YZ[Q^\_¥X\_¥[  
@HWI-EAS443:3:65:1253:1962#0/1  
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+HWI-EAS443:3:65:1253:1962#0/1  
`Y`[bbabbaY¥a¥S\_]a]¥XNWH\_GNa`a`\_ba[Y^`\_a  
@HWI-EAS443:3:65:1461:133#0/1  
GAACACTTGAAGAGCCATCTGGGCCGTTGCAGGTCCAAGG  
+HWI-EAS443:3:65:1461:133#0/1  
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@HWI-EAS443:3:65:543:1629#0/1  
GAGCCATCTGTGCCGTTGCAGGTCCAAGTCATTGTTTAT  
+HWI-EAS443:3:65:543:1629#0/1  
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ACATTAACAGAACTCAACCGCAGCAACTGCATTGGCCA  
+HWI-EAS443:3:65:896:906#0/1  
Z\_b`USZa\_baZYG]b¥]\_WQ^\_^`a]¥]P\_]K\_YTZ`aY  
@HWI-EAS443:3:65:96:1885#0/1  
CTGGGCCGTTGCAGGTCCAAGTCATTCTTTATCATGTTG  
+HWI-EAS443:3:65:96:1885#0/1  
aXXZX]XLRXRNVN¥SSQUUUJQ[]XRFHSUQRORNUUNR  
@HWI-EAS443:3:66:180:941#0/1  
GGGCATGTTTAACATGCTAAGTACGGTCTTGGGAGTCTCG  
+HWI-EAS443:3:66:180:941#0/1  
a[Zaaaa`a^aaa`\_\_\_\_aa\_^Ta\_\_\_\_T¥^]Y]X[WX\_¥\_]`  
@HWI-EAS443:3:66:295:1053#0/1  
CAATACTCATGTCTGCTGATTCATTTACTCCAGACTCC  
+HWI-EAS443:3:66:295:1053#0/1  
a\_]\_Z^`a]Ya\_a```\_`X¥\_``\_^^`\_¥^\_\_^^\_`¥Y[W  
@HWI-EAS443:3:66:885:1701#0/1  
ATTACATACGATGACCAAAGATGCAGAGAGAGGCAAGTTA  
+HWI-EAS443:3:66:885:1701#0/1  
`WY000VW\_ZS¥OY\_\_^S^MHVPWYGWRS00UUMQRNGST  
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AAACAATGGAAGTCGTTCAACAAACAAGGGTAGATAAACT

+HWI-EAS443:3:67:1185:702#0/1  
abbab`¥`aaaa^`]X¥¥T¥`\_]¥R]]\_aL]]X^Y`\_U¥  
@HWI-EAS443:3:67:1673:1725#0/1  
GGAAAGTGGACGACAAACACAGAACTGGTGCACCCCAGC  
+HWI-EAS443:3:67:1673:1725#0/1  
a`abX\_Uaa`\_Z`[¥b`ZZZaa]aa`\_]`Wa\_```]¥[\_`¥  
@HWI-EAS443:3:67:271:1731#0/1  
CTCCCAAGACCGTACTTAGCATGTTAAACATGCCATCAT  
+HWI-EAS443:3:67:271:1731#0/1  
a[abaaa`a``[GZ^^]`[\_``\_`^a\_\_`aZSZ]`\_``]`X  
@HWI-EAS443:3:67:912:1548#0/1  
GAACGACTTCCATTGTTTCAAGGCATGAATTCTCAAATAT  
+HWI-EAS443:3:67:912:1548#0/1  
XX`aa^`a¥Q\_a`¥¥J\_]`^\_aaa^]bba\_`^`\_a`a^\_]¥  
@HWI-EAS443:3:67:953:1586#0/1  
AATGGGTAGTTGCAACGGCATCATATCCATGCTTTTGGC  
+HWI-EAS443:3:67:953:1586#0/1  
a]`YDS]]R]`^`^\_ZN[ZV[^Za``X¥Paa\_YX\_\_V\_ZLX  
@HWI-EAS443:3:68:1033:841#0/1  
ATCGAGACTCCCAAGACCGTACTTAGCATGTTAAACATGC  
+HWI-EAS443:3:68:1033:841#0/1  
aaab`W`aaaa\_aa\_aa[\_]a]`\_a^\_aa^\_aa`\_]`^U`  
@HWI-EAS443:3:68:1280:2042#0/1  
GAAACAATGGAAGTCGTTCAACAAACAAGGGTAGATAAAC  
+HWI-EAS443:3:68:1280:2042#0/1  
[abaabbbbaabbW^a^`\_aa]baaJaWVYZHX[\_]^]aN  
@HWI-EAS443:3:68:1292:662#0/1  
CCCAGTGATTGTGAAAGAAATCTCTGAGTCTTGTGAATTA  
+HWI-EAS443:3:68:1292:662#0/1  
aaVSZZ¥PV`[\_`RW]]W\_^]`[Z\_][FGV]aa[OB BBBB  
@HWI-EAS443:3:68:22:44#0/1  
GCATGTTAAACATGCCATCATCATCCCAGGACTCAGTGA  
+HWI-EAS443:3:68:22:44#0/1  
^¥^U¥^^\_N]ZWY``¥a]ZW[Z][W\_\_¥WYVRZVUSVGV  
@HWI-EAS443:3:68:698:1561#0/1  
GATCATCTGAGTTAAAGAAGCTGTGGGATCAAACCAATC  
+HWI-EAS443:3:68:698:1561#0/1  
[SV`XY]¥ZTTMYNUYTUUYYMMHVNQW[¥BBBBBBBBBB  
@HWI-EAS443:3:68:769:407#0/1  
CTTTCCTTGAAGAATCCTACCCAGGAATATTTGAGAATTC  
+HWI-EAS443:3:68:769:407#0/1  
\_`\_\_L^bb`b`^a`^bRS\_Z¥¥aK\_¥N^`Z`^^`a\_PSG\_  
@HWI-EAS443:3:69:1283:1902#0/1  
GTTTCGTATACTTTGTTGAACTTTAGCTAGGAGCCTTTG  
+HWI-EAS443:3:69:1283:1902#0/1  
a¥\_``X]^TUH][\_`TQOWaYW^FO\_a\_X[¥RW\_^GGSV]  
@HWI-EAS443:3:69:1290:827#0/1  
CTGTGTTAATGCCAGCCCATGGTCCAGCCAAAAGCATGGA  
+HWI-EAS443:3:69:1290:827#0/1  
aaa[^H¥b¥b\_b`bbbbabaaa`aabaaaa¥aaa]aaa`a

@HWI-EAS443:3:69:1479:696#0/1  
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+HWI-EAS443:3:69:1479:696#0/1  
]PMNW`UTTR]LQVPYIDK^^P]LW]ZQQR LUUXWSLTGU  
@HWI-EAS443:3:69:1734:229#0/1  
CAGAACACACCAATACTCAGAAAAGGGAAAGTGGATGACA  
+HWI-EAS443:3:69:1734:229#0/1  
a\$`UYbT[]VZaTZaa`T[[UPY\$[^][`a\$L]ZXN^`aa  
@HWI-EAS443:3:69:276:1516#0/1  
GAACGACTTCCATTGTTTCAAGGCATGAATTCTCAAATAT  
+HWI-EAS443:3:69:276:1516#0/1  
``ab\_abbababb`aaaa`a``bbabaaaaababaaa`a  
@HWI-EAS443:3:69:956:1334#0/1  
GAACGACTTCCATTGTTTCAAGGCATGAATTCTCAAATAT  
+HWI-EAS443:3:69:956:1334#0/1  
`bbbbbbbb`\_aaa`\_aa`\$Xaaaab\_\_a````aaaa  
@HWI-EAS443:3:69:956:1752#0/1  
AGACTTCGGGAATGTGAAGATTCCGTATATTGTATAAGTT  
+HWI-EAS443:3:69:956:1752#0/1  
`^abaa\_\$``aa]\$^aa`\_`aaaa^aaa`adWaa`\_a^\_  
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ATTTGAGAATTCATGCCTTGAAACAATGGAAGTCGTTCAA  
+HWI-EAS443:3:6:1047:1399#0/1  
aaaaaa`\_aaa\_a`\_a\_a`\_]a^b\_\_a\_\_\_a[\$\_Y]Z^^  
@HWI-EAS443:3:6:1534:222#0/1  
AACAATGGAAGTCGTTCAACAAACAAGGGTAGATAAACTA  
+HWI-EAS443:3:6:1534:222#0/1  
a``baaaaaa`\_Sb\_a\_a`G\_a`G\_]adW^`\$`^`^OBB  
@HWI-EAS443:3:6:1559:1724#0/1  
AGCTGATTGATTACTCCAGACTCCAAAGCTGGGTAGC  
+HWI-EAS443:3:6:1559:1724#0/1  
ab]aa`a`\_a`\_aa\_a\_NZa`]`Y\$LT`\_\_\_Z^`\_`^U\_BB  
@HWI-EAS443:3:6:1623:1335#0/1  
TGGTCCTCCATCTGATACTGATAGCCCTACCTTTGATTGG  
+HWI-EAS443:3:6:1623:1335#0/1  
aaUVVWaPL\$^U^\_SMUYWUW\_R]YORYYVV^^V\_PH\$BB  
@HWI-EAS443:3:6:195:1367#0/1  
GTAAAAAGAAGGGCTACCGCAACACCTGGGATGCAGATT  
+HWI-EAS443:3:6:195:1367#0/1  
aZUR^WR^]\_\_ZN\_UZGSHZ]WH[BBBBBBBBBBBBBB  
@HWI-EAS443:3:6:485:1575#0/1  
ATTTGAGAATTCATGCCTTGAAACAATGGAAGTCGTTCAA  
+HWI-EAS443:3:6:485:1575#0/1  
^^ab\$aab`\_a\_\_`R`T`][`\_b]\_aab]aa\$ZZT^[[^^  
@HWI-EAS443:3:6:869:1276#0/1  
GTTAGTTTATCTACCCTTGTGTTGTTGAACGACTTCCATTG  
+HWI-EAS443:3:6:869:1276#0/1  
a```X^V^a```XX^`\$aa^\_\_`[`[\$a\_[UX[]S\_\$\_]a  
@HWI-EAS443:3:6:900:1599#0/1  
ATCGAGACTCCCAAGACCGTACTTAGCATGTTAAACATGC

+HWI-EAS443:3:6:900:1599#0/1  
a\_]a^aSYW]^\_`XXXHX¥X¥]\_ZW\_^Z]U^B  
@HWI-EAS443:3:70:1448:1157#0/1  
TTCAAGGCATGAATTCTCAAATATTCCTGGGGGGATTCT  
+HWI-EAS443:3:70:1448:1157#0/1  
V`KZ`aUW¥]S¥J]a¥ab^[U^b`^^^aabaHZ]b^a^Za  
@HWI-EAS443:3:70:1478:613#0/1  
TTGTGGCTAATTTTAGGATGGAGCTACCCAGCTTTGGAGT  
+HWI-EAS443:3:70:1478:613#0/1  
abbMbb\_0]aWVb^^WTZ^P^[aXRTX`POVYY]aTYFZY  
@HWI-EAS443:3:70:1642:2009#0/1  
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+HWI-EAS443:3:70:1642:2009#0/1  
``TaNb\_a\_bZ[¥\_QJ^^^Yaa¥VRaXFG]YY\_JaGYNY\_  
@HWI-EAS443:3:70:210:63#0/1  
TCGAGACTCCCAAGACCGTACTTAGCATGTAAACATGCC  
+HWI-EAS443:3:70:210:63#0/1  
a`a\_a]``^a\_¥\_\_Z\_\_`W¥¥¥¥UXT¥¥]W¥\_^ZU¥VWTU  
@HWI-EAS443:3:70:329:1323#0/1  
GCAACGGCCAGATGGCTCTCAATTGTTTCATCCAAGACT  
+HWI-EAS443:3:70:329:1323#0/1  
abbbbaaba`Q\_Z]``^`b`aaa^`a]`^aa\_ZY[[[¥Y¥  
@HWI-EAS443:3:70:430:198#0/1  
GGTTGAGCTGGGGTGTACCAGTCTCTGTGTTTGTCTCCA  
+HWI-EAS443:3:70:430:198#0/1  
abNaa`aa`aaba^`Xa`a\_a[a```\_Q\_T`\_PMZZN¥¥¥  
@HWI-EAS443:3:70:79:436#0/1  
GATACACATATAGGGCCATAGGGGAGACACACAAATTCA  
+HWI-EAS443:3:70:79:436#0/1  
aaa\_ab\_b`ba]\_aHb`aa\_a`\_^Z\_^]]^`a`V\_U]\_`  
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+HWI-EAS443:3:70:922:1958#0/1  
\_WR\_YaaU][aW[a^QGZV]SRVZ[¥NW^`^Z[a`][N  
@HWI-EAS443:3:70:992:89#0/1  
GCTTTAACAGTCTGGGCTCCCAGTAGGGGCAATGAAAAG  
+HWI-EAS443:3:70:992:89#0/1  
]]bZJ¥VXbaaVa[b`[a\_]YZa¥`a`Vb¥ZQ¥ZMY¥^^  
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+HWI-EAS443:3:71:1013:1912#0/1  
aa\_b][ab`]GPX^]WUOHS`XVXZ`aZR\_SFROPHRZaI  
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CTCATGTCAGCTGGTTCATTTACTCCAGACACTCCAAAGC  
+HWI-EAS443:3:71:1231:484#0/1  
ab]W\_ZZ]X]¥b^HU\_]ba¥^a`Y]\_Z`XYF`RNZaa[R  
@HWI-EAS443:3:71:196:429#0/1  
TGCCATGCTCAGGATGTTTCTGAACCACACGGGTTGATTT  
+HWI-EAS443:3:71:196:429#0/1  
a`bbbabb`aa``[aa\_aaaaaa\_a\_¥G^a`X``^^`]

@HWI-EAS443:3:71:567:796#0/1  
GATGATGGGCATGTTTAACATGCTAAGTACGGTCTTGGA  
+HWI-EAS443:3:71:567:796#0/1  
a\_abaaa\_\_a]`aYaZ]\_U`\_]a\_\_`\_Va\_^M^\_]^¥\_W  
@HWI-EAS443:3:71:605:561#0/1  
AACTGCTAGGCAAAAATTTCTCGAATAGATTGCAGCACTT  
+HWI-EAS443:3:71:605:561#0/1  
aa`aaaa¥a^\_Za`\_]`\_]^[^\_]Y^^Y]S[YY[  
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+HWI-EAS443:3:71:757:1576#0/1  
aaababa\_aaa^aaaaa`\_a\_b\_aV``\_aa`Y^ZT\_Z^\_  
@HWI-EAS443:3:71:897:1853#0/1  
CACCAATACTCAGAAAAGGGAAAGCGGACGACAAACACAG  
+HWI-EAS443:3:71:897:1853#0/1  
abbbbTb`ab`bbaaaaa`aaaaabaaaaa]aaaaaaaa  
@HWI-EAS443:3:71:912:92#0/1  
TGTTTACTGTGTCCATGGGGTATCCTGTTCCCTGTTCCATG  
+HWI-EAS443:3:71:912:92#0/1  
aaaaa]W]^\_a\_W[^abWF]]\_^[^`V¥\_YZ]`\_\_RV]^X  
@HWI-EAS443:3:72:421:1543#0/1  
CATGGTGTCTAGGGCCCGGATCGATGCCAGGGTCGACTTC  
+HWI-EAS443:3:72:421:1543#0/1  
`\_\_T¥¥`a`\_¥Ua``^`Z]`RY¥`aaZ¥SS]¥¥`¥T[  
@HWI-EAS443:3:72:611:769#0/1  
CAACAAAGTAAACGAAACCTCTAATCTGCATCCCAGGTGT  
+HWI-EAS443:3:72:611:769#0/1  
\_\_\_\_]``¥Z`T¥`a\_]`^`a\_a```]^\_Z\_\_a\_\_a]`\_\_Y\_]`  
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CAGAACACACCAATACTCAGAAAAGCGAAAGTGGACGACA  
+HWI-EAS443:3:72:71:2004#0/1  
a¥I\_aa`aa`baa\_b\_`bY]S^¥aMDU`¥]XU`G¥\_```a  
@HWI-EAS443:3:73:1059:2008#0/1  
AACAAAGACTGAATAAGAGAGGCTATTTAATAAGAGCACT  
+HWI-EAS443:3:73:1059:2008#0/1  
abbaa`aaaaaa`aaaaba\_a\_a\_\_WGNYa¥Y]QXPMQVL  
@HWI-EAS443:3:73:1062:1336#0/1  
GAACGACTTCCATTGTTTCAAGGCATGAATTCTCAAATAT  
+HWI-EAS443:3:73:1062:1336#0/1  
aa`aaaaaaaa`aaa^`aaaa`a\_aaaa[aa\_a]^^a`\_  
@HWI-EAS443:3:73:1310:188#0/1  
AATGAATCAGCTGACATGAGTATTGGAGTAACTGTGATAA  
+HWI-EAS443:3:73:1310:188#0/1  
`W]`]Z¥P¥TX\_[VT¥\_NTRH\_``][WVN]RNDTJXSTYY  
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CTAACTTGCAGGTCCTGTAGAATCTGGCCACTCCTGCTTG  
+HWI-EAS443:3:73:1426:676#0/1  
a`bS\_[b`aaN^[``]aa\_`¥V\_`GZ^ZW¥aQ\_¥U¥^\_  
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GTCATAAAGAGATTGATTCTGTAAACAATGATGTGGTAAT

+HWI-EAS443:3:73:1489:1406#0/1  
 TZa^`RYXZ`ZTa^^RaYR` `WWIQW[a`\_HZ¥H\_VaBBB  
 @HWI-EAS443:3:73:154:607#0/1  
 TGGAAGTCGTTCAACAAACAAGGGTAGATAAACTAACTCA  
 +HWI-EAS443:3:73:154:607#0/1  
 ab\_R¥URbaR`^X\_]Y^`\_¥``\_0\_^ZZ`\_R]ZPUOLS  
 @HWI-EAS443:3:73:1664:1023#0/1  
 GTCTGGAGTATATGAATCAGCTGACATGAGTATTGGAGTA  
 +HWI-EAS443:3:73:1664:1023#0/1  
 a\_aa`a\_aQa`\_`a`Z^¥^`Z` `^`[\_\_\_^\_Y^`^¥]V\_[]  
 @HWI-EAS443:3:73:1677:1291#0/1  
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 +HWI-EAS443:3:73:1677:1291#0/1  
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 @HWI-EAS443:3:73:260:656#0/1  
 ACCGGCAGCAACTGCATTGGCCAAAACCATAGAAGTCTTT  
 +HWI-EAS443:3:73:260:656#0/1  
 aaa\_]a\_]NX\_YZRVUNZU\_SZ]`HV¥]VTPRUZTGVY]Y  
 @HWI-EAS443:3:73:298:682#0/1  
 ATGGGCTCCAATCACCCGACGATTTTGCTCTCATAGTGAA  
 +HWI-EAS443:3:73:298:682#0/1  
 ZWb[W¥Yb\_QW¥¥VV[¥¥ZZOY^` `^`Z[aSXL\_GXJ\_a`  
 @HWI-EAS443:3:73:830:673#0/1  
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 +HWI-EAS443:3:73:830:673#0/1  
 aa`aababbaaaaaaaaa`^aaa`aaa`aaaaaa`^\_\_\_a  
 @HWI-EAS443:3:73:877:142#0/1  
 GCTTTCCTTGAAGAATCACACCCAGGAATATTTGAGAATT  
 +HWI-EAS443:3:73:877:142#0/1  
 aaabaaabaabaaa``aaa^a^` ``````````aaa`¥`a`\_\_`^  
 @HWI-EAS443:3:73:92:255#0/1  
 AAACAATGGAAGTCGTTCAACAAACAAGGGTAGATAAACT  
 +HWI-EAS443:3:73:92:255#0/1  
 ]abbb]baba]`X\_\_Y¥`\_]NW`aS\_`¥^^0¥]\_V`]VKZ  
 @HWI-EAS443:3:73:998:1442#0/1  
 ATTTGAGAATTCATGCCTTGAACAATGGAAGTCGTTCAA  
 +HWI-EAS443:3:73:998:1442#0/1  
 ¥\_YWPPHUBaV\_`]]`Z\_R\_SZ`]a\_ab¥YtZH\_OLLJL`  
 @HWI-EAS443:3:74:1092:1897#0/1  
 GGAAGTCGTTCAACAAACAAGGGTAGATAAACTAACTCAA  
 +HWI-EAS443:3:74:1092:1897#0/1  
 `a` `SX` `^a\_Y]F)`ZM¥baaZR^UYUaU`X¥a[Y]aaa  
 @HWI-EAS443:3:74:1489:998#0/1  
 ATTCTTCAATGAAAGCCATAGCCTCTAGAACACAGTCTGT  
 +HWI-EAS443:3:74:1489:998#0/1  
 \_`^aYT^`VJQTWV\_aaaab`aa\_RW` `¥¥Z^¥`aZW¥\_L  
 @HWI-EAS443:3:74:304:889#0/1  
 ATCGCTATGGATTTGTGGCTAATTTTAGCATGTAGCTACC  
 +HWI-EAS443:3:74:304:889#0/1  
 [ `a` ` `]\_K¥V]aaa`a¥a]SWV^a`URUGVSV^`]¥XSF



@HWI-EAS443:3:74:374:303#0/1  
CATGGTGCCTAGGGCCCGGATTGATGCCAGGGTCGACTTC  
+HWI-EAS443:3:74:374:303#0/1  
`V[ZGGaJ`XX^XQ\_¥`\_¥G[X¥P¥`VGTTP`]XXV¥U  
@HWI-EAS443:3:74:518:1970#0/1  
AAGAAATACACCAAGACAATATACTGGTGGGATGGTCTCC  
+HWI-EAS443:3:74:518:1970#0/1  
M¥ZT`[UQWYaaVQHZ^`\_Z`a]X\_NZXZMY\_TVJDX^a]  
@HWI-EAS443:3:74:747:1097#0/1  
ATCCTCAGGTAGTGGTCCATCAATCGGGATGAGCTGGGGT  
+HWI-EAS443:3:74:747:1097#0/1  
aaa`aZZ`ZW]UF]aSaa`¥^Z`aaZ\_Y`X¥]a\_\_aX^`K  
@HWI-EAS443:3:75:116:633#0/1  
GGCCATGGTGTCTAGGGCCCGGATTGTTGCCAGGGTCGAC  
+HWI-EAS443:3:75:116:633#0/1  
`\_`a```¥XXX\_^Q¥`V``[¥]Z^^^N[X¥`Q]`ZRVPK[  
@HWI-EAS443:3:75:1737:1481#0/1  
CAAAGACTGAATAAGAGAGGCTATCTAATAATAGCACTGA  
+HWI-EAS443:3:75:1737:1481#0/1  
aabb¥\_Z``a\_b`a]`ba```aU[¥]F]\_`^IaMS]baa]  
@HWI-EAS443:3:75:216:19#0/1  
GCAACGGCCAGAAAGGCTCTTCAATTGTTTCATCAAAGACT  
+HWI-EAS443:3:75:216:19#0/1  
`^]W]TBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBB  
@HWI-EAS443:3:75:910:995#0/1  
GAGTCCTGGGATGATGATGGGCATGTTTAACATGCTAAGT  
+HWI-EAS443:3:75:910:995#0/1  
```[`XN\_^]`^aaaba`X`\_\_\_\_aM`aa`\_a`a`a\_a]Z  
@HWI-EAS443:3:75:938:1218#0/1
CAGATTCTACAGGACCTGCAAGTTTGTGGGAATCAACATG
+HWI-EAS443:3:75:938:1218#0/1
abaa]aabb¥b¥``_a^¥`aab`aaZ`aa`_^]ab`a__
@HWI-EAS443:3:76:1106:1633#0/1
ATTTGAGAATTCATGCCTTGAAACAATGGAAGTCGTTCAA
+HWI-EAS443:3:76:1106:1633#0/1
aaabaa`aaaa]aa`aababaa^b`a^U¥`^W[X[T¥¥
@HWI-EAS443:3:76:116:1851#0/1
GATGATTGGAGCCCATCCCACCAGTATAATGTCTTGGTGT
+HWI-EAS443:3:76:116:1851#0/1
_`[`XZY[JW]W]¥a]Wa^SW``YSDOXYJXRSZQNWXSUW
@HWI-EAS443:3:76:1683:1045#0/1
TGGCTAATTTTAGCATGGAGCTACCGAGCTTTGGAGTGTC
+HWI-EAS443:3:76:1683:1045#0/1
Ybba`[¥babbMaTI``a`¥aa[¥RPXbZaYaaWZ`XVSH
@HWI-EAS443:3:76:448:1536#0/1
GAACCAAGTGGGTATGCACAAACAGACTGTGGTCTAGAGG
+HWI-EAS443:3:76:448:1536#0/1
aaVaaT``UPV]VV^[¥XQ[aa^aS`¥YR]OY_¥ZYOV_
@HWI-EAS443:3:76:967:208#0/1
CCAGGGGCGACTTCGAGTCTGGACGGATCAAGAAAGAAGA

+HWI-EAS443:3:76:967:208#0/1
^_bb`_H[b`b^Z`_]W`Ya^_bRP¥_V_]`^¥¥aaZ^`_¥[
@HWI-EAS443:3:77:684:2001#0/1
GTATTGGTGTGTTCTGTTTACTGTGTCCCTGGTGTATCCT
+HWI-EAS443:3:77:684:2001#0/1
]abbbba`b_aababaaaabbbbaaabababa_aaaaa__
@HWI-EAS443:3:78:1750:1655#0/1
GACTCGAAGTCGACCCTGGTATCAATCCGGGCCCTAGACA
+HWI-EAS443:3:78:1750:1655#0/1
_^`[X[bb¥N]bUP]ZV[ODM[TT¥[¥M¥aSOT]BBBBBB
@HWI-EAS443:3:78:1754:339#0/1
GAACGACTTCCATTGTTTCAAGGCATGAATTCTCAAATAT
+HWI-EAS443:3:78:1754:339#0/1
`¥]^`ZP_a^^aa`^`^`Ya__]R[`a_Y`_X][¥^^`_`
@HWI-EAS443:3:78:721:199#0/1
CTATCGCAACGCCTGGGATGCAGATTAGAGGTTTCGTATA
+HWI-EAS443:3:78:721:199#0/1
a`a_____Z`_]¥aba_]`_]`¥`aa`_T]aX`W^^
@HWI-EAS443:3:79:1442:476#0/1
ATCAAACCAATCAAAGGTAGGGCTATGAGTATCAGATGG
+HWI-EAS443:3:79:1442:476#0/1
`¥QWHSTTSOHYN¥F[`S`a`V^OPU[JTW]IZJG[PS¥a
@HWI-EAS443:3:79:1443:1575#0/1
CAAACACAGAGACTGGTGCACCCCAGCTGAACCCGATTGA
+HWI-EAS443:3:79:1443:1575#0/1
Tbba]b`_b`]aTV_a]babaaTI¥b_]Q_^]_Ka`aMaZ
@HWI-EAS443:3:79:1477:1654#0/1
AATGGAAGTCGTTCAACAAACAAGGGTAGATAAACTAACT
+HWI-EAS443:3:79:1477:1654#0/1
a^]_Y__^WWWVYV]QUYZVVWXYXHW]UWWWWWVYZJZ
@HWI-EAS443:3:79:340:1506#0/1
AACCCGAGTGGTTCAGAAACATCCTGAGCATGCCACCCAT
+HWI-EAS443:3:79:340:1506#0/1
WW`b]VW_X^]Z__Z_aZ]`VX]`XWYZ_NOJNX¥`^WdW
@HWI-EAS443:3:79:824:1658#0/1
CAATGGAAGTCGTTCAACAAACAAGGGTAGATAAACTAACT
+HWI-EAS443:3:79:824:1658#0/1
aa^`_Y^^0[^¥SXZU`_T¥WY`_ZOZGZQU_[¥]FX`US
@HWI-EAS443:3:79:832:300#0/1
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+HWI-EAS443:3:79:832:300#0/1
aX¥¥`Y[D¥a`¥_Zab_aYNY^^YYa_MWX`¥ZXZa]a`
@HWI-EAS443:3:7:1435:118#0/1
GTGGGCGACAAACACAGAGACTGGTGCACCCCAGCTCAAC
+HWI-EAS443:3:7:1435:118#0/1
aG`_KY`]SZSXUUNSaVVKKW_WVWVQWUSVVUBBBBBB
@HWI-EAS443:3:7:1552:472#0/1
CTAATTTGCAGTCTGTAGAAATCTGTCCACTCCTGCTTG
+HWI-EAS443:3:7:1552:472#0/1
abb[DZ`bab``]a¥ba¥aaXaa_a`LHFXRTPV[KV_```

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+HWI-EAS443:3:7:86:1776#0/1
a`a`Y`YZ_`^^a#a[aaa`aaG`S[]__a^]]__aS]S
@HWI-EAS443:3:80:1101:608#0/1
AAAGACTTCTATGGTGTGGCCAATGCAGTTGCTGGCGGT
+HWI-EAS443:3:80:1101:608#0/1
^T^Q^bbb__]b#X`]a[N]W_#R`[O_^Yba_[DLa_U
@HWI-EAS443:3:80:1219:296#0/1
GCTAATTTTAGCATGGAGTTACCCAGCTTTGGAGTGTCTG
+HWI-EAS443:3:80:1219:296#0/1
]aaaWaaXTYa_^aab]]FR_`#]^aW^a^a]X_Y_^R_^
@HWI-EAS443:3:80:1415:1818#0/1
AACCCGAGTGGTTCAGAAACATCCTGAGCAGGGCACCCAT
+HWI-EAS443:3:80:1415:1818#0/1
abaaabaa`bb____`^]RQ]RWNT[W[USFZ#ZYY`] [K
@HWI-EAS443:3:80:265:1509#0/1
ACTCGAAGTCGACCCTGGCATCAATCCGGGCCCTCGACAC
+HWI-EAS443:3:80:265:1509#0/1
aa#_`a`_#` ``^ [`#^^#[Y`#YZ^^#TY#Z^UEU^ZZ_
@HWI-EAS443:3:80:55:965#0/1
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+HWI-EAS443:3:80:55:965#0/1
aU#_]^^YRVVTSMQVTQSYPRXPOROVNTWXYRUXSFM
@HWI-EAS443:3:81:1438:1086#0/1
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+HWI-EAS443:3:81:1438:1086#0/1
aaaaa_aa`a_a`^__aa`Zaa`_a_`^X_[Z`_]^____`
@HWI-EAS443:3:81:1631:476#0/1
CCGTCCAGACTCGAAGTCGACCCTGGCATCAATCTGGGCC
+HWI-EAS443:3:81:1631:476#0/1
a`aaaaa`V_T#aaa]XOPP[UYNRU^UN]a^JEZRMPG
@HWI-EAS443:3:81:505:75#0/1
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+HWI-EAS443:3:81:505:75#0/1
aaa____`_#L##`_]FVS`TU`Q_T^TU_[UTWZVWTPPS
@HWI-EAS443:3:81:632:283#0/1
GGAAGTCGTTCAACAAACAAGGGTAGATAAACTAACTCAA
+HWI-EAS443:3:81:632:283#0/1
TP][U] [P[^_ZZa[TX]^_[ONNO^UPZOKPXOOVYX
@HWI-EAS443:3:82:1027:1872#0/1
ATCTGTCCACCCCTGCTTGTATCCCTCATGGTTTGGTGC
+HWI-EAS443:3:82:1027:1872#0/1
a_a_ZSO__ZZ_b^#^a]ZH__aaW_a^X`[^` `[^XGUa
@HWI-EAS443:3:82:1064:978#0/1
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+HWI-EAS443:3:82:1064:978#0/1
X_#`TQ__HUU_U#T`^#V^S]KaQHHI`Z]_aa_YV[Z`
@HWI-EAS443:3:82:1106:761#0/1
ATTTGAGAATTCATGCCTTGAAACAATGGAAGTCGTTCAA

+HWI-EAS443:3:82:1106:761#0/1
ababaab^bbaabbba¥baaaabab]aaaaa]]`W_Q_^
@HWI-EAS443:3:82:1129:676#0/1
GAACGACTTCCATTGTTTCAAGGCATGAATTCTCAAATAT
+HWI-EAS443:3:82:1129:676#0/1
a`a``¥aba^`Uabbb``W^W`a_^`b```[``^]Ra`_
@HWI-EAS443:3:82:1158:1414#0/1
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+HWI-EAS443:3:82:1158:1414#0/1
]bb`^a^`baW]aa^aa`a^b`a_Za__^_Z][RV__aa
@HWI-EAS443:3:82:1297:1286#0/1
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+HWI-EAS443:3:82:1297:1286#0/1
¥a`Xab`WIFN_UU_^SV_¥aXNU`RJ^_¥Z_GS]baaba
@HWI-EAS443:3:82:1538:1155#0/1
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+HWI-EAS443:3:82:1538:1155#0/1
ab`aa[Z]a¥^abZZ]`[a¥S[aa_bOIXa`ba`_a_¥NZ
@HWI-EAS443:3:82:1601:1497#0/1
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+HWI-EAS443:3:82:1601:1497#0/1
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@HWI-EAS443:3:82:1631:1428#0/1
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+HWI-EAS443:3:82:1631:1428#0/1
`b]aSV[aOT__[bLbYGYMxa]^SG[UWH^[[U^RGU[`
@HWI-EAS443:3:82:579:684#0/1
CCCAGCGTTGCGATAGCCCTTCTTTTTAACTTGCCTCTC
+HWI-EAS443:3:82:579:684#0/1
Zaa[_aK[bba]abb``aa^[`¥a^abaU¥bab_Y[baab
@HWI-EAS443:3:82:884:1072#0/1
ATCGAGACTCCCAAGACCGTACTTAGCATGTAAACATGC
+HWI-EAS443:3:82:884:1072#0/1
ababba_aa]aaab`b_aaXaa`Q`_`_aaabbaa_a```
@HWI-EAS443:3:83:1516:838#0/1
AATTGAAGAGCCATCTGGGCCGTTACAGGTCCAAGGTCAT
+HWI-EAS443:3:83:1516:838#0/1
a_b`aabaa`a_a`Q`a``Z_b`__]__`^^Z_]_]Z[^_
@HWI-EAS443:3:83:345:1113#0/1
GCCTCTTTATTCCGTCTTTGTTTTTTCTTCCCTATTGTT
+HWI-EAS443:3:83:345:1113#0/1
`[`WW`bb`SSZaJ_PYZVYUTTUaaaa¥N¥T`aaT0^XZ
@HWI-EAS443:3:83:352:825#0/1
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+HWI-EAS443:3:83:352:825#0/1
`[bRX^`KXaR`WLPW_]VT`a_YWV_[UZZ__XYPRX[V
@HWI-EAS443:3:83:481:1240#0/1
CTGTCCACTCCTGCTTGTATTCCCTCATGGGTTGGTGCAT
+HWI-EAS443:3:83:481:1240#0/1
aRaZ^_T`aa_WS¥_YLE[ZX[`[[[PR^TFTZV^W_TWZ

@HWI-EAS443:3:83:931:1910#0/1
ATCGAGACTCCAAGACCGTACTTAGCATGTTAAACATGC
+HWI-EAS443:3:83:931:1910#0/1
^^^b_Ya]aba`a^]aa^^a_]a`a`]_T_a_]S`____
@HWI-EAS443:3:84:715:1118#0/1
GAGTTAGTTTATCTACCCTTGTGGTTGAACGACTTCCAT
+HWI-EAS443:3:84:715:1118#0/1
`L_SXY____bbaa_U__^a`]¥US[Y`¥`VSOT[_WYW_]`
@HWI-EAS443:3:85:102:1903#0/1
GGCATGTTTAAACATGCTAAGTACGGTCTTGGGAGTCTCGA
+HWI-EAS443:3:85:102:1903#0/1
abbbbaabbb]bb`bba0b_[bb_RT]bba_aa`aaaaa
@HWI-EAS443:3:85:1091:1587#0/1
GAACGACTTCCATTGTTTCAAGGCATGAATTCTCAAATAT
+HWI-EAS443:3:85:1091:1587#0/1
aabbaaab`abbaaaa`aaa__a`aa_ba_b`aaaaa
@HWI-EAS443:3:85:1493:519#0/1
AAGAAGAAAATTGAGAAAATAAGGCGTCTTCTAATAGATG
+HWI-EAS443:3:85:1493:519#0/1
^¥`[a`[a[Ub`^]a^H^YZVba]NOY`bXT`a^[`_^VI
@HWI-EAS443:3:85:362:441#0/1
CGAGACTCCAAGACCGTACTTAGCATGTTAAACATGCCC
+HWI-EAS443:3:85:362:441#0/1
abbababa`ba[b]_ab`^`aa`aaa_baaba`X^^b_^N
@HWI-EAS443:3:85:577:482#0/1
AAATCGTCGGATGATTGGCGCCCATCCCACAGTATATTG
+HWI-EAS443:3:85:577:482#0/1
]¥¥`U_bXWVZ_¥ZZaaUHxa_^_Yxa`_ZZ`_NP¥QZYQ
@HWI-EAS443:3:85:610:1758#0/1
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+HWI-EAS443:3:85:610:1758#0/1
a]PQ]aZbV[[^aX¥Y^a]G¥]UU]XULU_¥^]W^¥ZZT_
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+HWI-EAS443:3:85:964:109#0/1
a^`__]^]TVRO]SWVGU]WOXTNTVGVXXWWWXYGYXZHV
@HWI-EAS443:3:86:1364:1334#0/1
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abbbbabbbbabbbabb_babbababa`ba`baababbb
@HWI-EAS443:3:86:1760:82#0/1
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+HWI-EAS443:3:86:1760:82#0/1
[aabab`_ba[Iaaa`_aW^`__^¥[_a]``¥]^¥¥¥U
@HWI-EAS443:3:86:1779:54#0/1
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+HWI-EAS443:3:86:1779:54#0/1
VR[[_¥W]W[MYRR]YDYX]SS]¥FWOGZFYZ[JYUFR
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+HWI-EAS443:3:86:636:1171#0/1
_¥`aab_b¥¥`aa^¥`Z`aabaa_[F¥aa_`a^`a`_aa
@HWI-EAS443:3:86:845:202#0/1
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+HWI-EAS443:3:86:845:202#0/1
Ybaa__XaaZaUZ`abX_b`FV[Waa`]aa]]X_XZ[SU
@HWI-EAS443:3:87:386:1443#0/1
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+HWI-EAS443:3:87:386:1443#0/1
aab`_a__`ZINX¥G_^UVZZXPUSa]_[_U¥]WG]^_^
@HWI-EAS443:3:87:535:1718#0/1
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+HWI-EAS443:3:87:535:1718#0/1
a`XaXT_aPN]YSR`a_¥P]RZZQU]_`__URFTVXULS
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+HWI-EAS443:3:87:584:1323#0/1
_W_b`b`Z`_OFY`ba]Z[^a[aY_¥aaR^a_]_a`[]
@HWI-EAS443:3:87:651:1741#0/1
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+HWI-EAS443:3:87:651:1741#0/1
¥aaa`_]V`a`aaaab_b__a_Za`OJVQ[YWXOV_YDRY
@HWI-EAS443:3:87:982:786#0/1
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+HWI-EAS443:3:87:982:786#0/1
[^`_b`[XYaaaaaa_aaa¥V_a_a^abWaVaQ__J^]_`
@HWI-EAS443:3:88:1086:1829#0/1
AGGGCTAGTAGTATCAGATGGAGGACCAAACCTTATACAAT
+HWI-EAS443:3:88:1086:1829#0/1
`_Yaaa¥HWb¥aaaaaaaY]U^]`aaaaba]`aaaa_a^a
@HWI-EAS443:3:88:1136:1016#0/1
CCTCCATCTGATACTAATACCCCTACCTTTGATTGGGTTT
+HWI-EAS443:3:88:1136:1016#0/1
abbbb`baa`bb`¥Z`YHW]_]_]_a[]Y[_RVY][P[[
@HWI-EAS443:3:88:1226:1932#0/1
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+HWI-EAS443:3:88:1226:1932#0/1
aUa^__bZS_a_Z`^^XaG]¥_QV_S_GZZU`UVX¥^`Q
@HWI-EAS443:3:88:1612:40#0/1
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+HWI-EAS443:3:88:1612:40#0/1
`U`_b`aV`^a_H_X__a`_aba[^SaWab_^aaaaYa__
@HWI-EAS443:3:88:185:1709#0/1
AGACAATATACTGGTGGGATGGGCTCCAATCATCCCACGA
+HWI-EAS443:3:88:185:1709#0/1
`[ab[UI¥R^__U]_a`TVVX`^VP`a¥N_aUVGXRaQ
@HWI-EAS443:3:88:821:1547#0/1
GTTGTTCTTTATCACTGTTACTCCAATACTCATGTGAGCT
+HWI-EAS443:3:88:821:1547#0/1
aaaa`a^^¥`a^`[X[^¥`R_ZXZ]W]¥X^[MMFTVTR

@HWI-EAS443:3:88:849:148#0/1
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+HWI-EAS443:3:88:849:148#0/1
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@HWI-EAS443:3:88:984:862#0/1
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+HWI-EAS443:3:88:984:862#0/1
abJRa`¥¥JYbaa][YK]`abVaP^¥J]ab`JaYa[JVZa
@HWI-EAS443:3:89:1513:535#0/1
TCCTCCATCTGATACTAATAGCCTTACCTTTGATTGGGTT
+HWI-EAS443:3:89:1513:535#0/1
aaaaa`_`a`a_a_]aaa``YW¥Ga[N[_aaaaXXV[[[
@HWI-EAS443:3:89:173:812#0/1
GAAACAATGGAAGTCGTTCAACAAACAAGGGTAGATAAAC
+HWI-EAS443:3:89:173:812#0/1
abb¥aaaaaaaabP``¥`a`a_a`a`_YV]aX__[Z^V`U
@HWI-EAS443:3:89:533:1725#0/1
GGAATATGATGCCGGTGCAACTACACATTCCTGGATTCCC
+HWI-EAS443:3:89:533:1725#0/1
aab`ab`YZ]^JRHR_[[_```S`^^^UNV__XPPIXZ
@HWI-EAS443:3:89:768:1202#0/1
CTGGAGTAAATGAATCAGCTGACATGAGTATTGGTGAAC
+HWI-EAS443:3:89:768:1202#0/1
ab]^G_`]^aa`ababb¥¥`abTaa¥^`T¥bba]FRT^_U
@HWI-EAS443:3:8:1148:1373#0/1
ATGATGGGCATGTTTAAACATGCTAAGTACGGTCTTGGGAG
+HWI-EAS443:3:8:1148:1373#0/1
a`aYYa¥aaabb_aab^`aZaaa]P]]aaa^¥N```[_^
@HWI-EAS443:3:8:1301:1909#0/1
GAGCATTTGCGAAAAGCTTGGACAGTCTGGGCTCCCAGTA
+HWI-EAS443:3:8:1301:1909#0/1
^XaW]_Z]aabaa^Qaaa¥^E^^aaU[U^`YYYNS¥YVMX
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+HWI-EAS443:3:8:1333:73#0/1
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@HWI-EAS443:3:8:407:1097#0/1
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+HWI-EAS443:3:8:407:1097#0/1
aZ^__[Y[X`]_`__^W^^[]^Z]^_]XNYSYNUXX]G
@HWI-EAS443:3:8:554:1408#0/1
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+HWI-EAS443:3:8:554:1408#0/1
S[S_T¥bb^V¥_`TX¥Y^¥b¥Z_a__a^]a_^DLIaVISX
@HWI-EAS443:3:8:58:1196#0/1
GGAGCATTTGCGAAAAGCTTGAACAGTCTGCGCTCCCAGT
+HWI-EAS443:3:8:58:1196#0/1
aYaZY`P[Q[bb^[^[_aX__ZSaZaNX_OF¥UW¥¥VV_S
@HWI-EAS443:3:8:673:1710#0/1
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+HWI-EAS443:3:8:673:1710#0/1
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@HWI-EAS443:3:8:993:1791#0/1
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+HWI-EAS443:3:8:993:1791#0/1
`^b¥H_X_YZa`_bbS_XUbK[[b_aaabbYY[bYYU_T`
@HWI-EAS443:3:90:1144:1346#0/1
GGAGGATTTGCGAAAAGCTTGAACAGTCTGGGCTCCAGT
+HWI-EAS443:3:90:1144:1346#0/1
ZVTVL¥Z_^_V_YTUX`][`[_X]_``XMX`¥¥X¥^]] [a_
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+HWI-EAS443:3:90:1419:644#0/1
``_[IW]VYRP``¥V[]a]¥¥a¥L]UGUY`]Z_RVPKS_G
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+HWI-EAS443:3:90:1433:1044#0/1
`babbbbbb_bbbbabbbbbb[] []b`abbababab_
@HWI-EAS443:3:90:176:735#0/1
GGCTAATTTTAGCATGGAGCTACCCGGCTTTGGAGTGTCT
+HWI-EAS443:3:90:176:735#0/1
ab_`Ua^Z[WT__YYaU^^Z_bZPa_¥Ta^a_U^V^GHV
@HWI-EAS443:3:90:281:983#0/1
AGTTTATCTACCCTTGTGGTTGAACGACTTCCATTGTTT
+HWI-EAS443:3:90:281:983#0/1
^¥Y[b^aaa^aaa`b[[T`]WW_U`a_IT[a_V_b_¥NQX
@HWI-EAS443:3:90:65:217#0/1
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+HWI-EAS443:3:90:65:217#0/1
a`[^aaaaba¥GRa^aaa`[a`_`a___Z[]`^)^^__-]
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+HWI-EAS443:3:90:737:1061#0/1
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@HWI-EAS443:3:90:963:967#0/1
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+HWI-EAS443:3:90:963:967#0/1
``aa`_baaabTFW[_b[aa`bba^`]aTbbbb^^a[X[X
@HWI-EAS443:3:90:966:575#0/1
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+HWI-EAS443:3:90:966:575#0/1
a`^^^aN_^[_^_WLY[`X¥¥]Q_RMNPY¥]FR_WSU]SZ
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+HWI-EAS443:3:91:1101:1109#0/1
aY`SSV[IR`]ZN]]_^_VLN[SULYX¥UMWTY]]QWV]

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+HWI-EAS443:3:91:1784:403#0/1
^`__a_a^HTaa`PU^ZYV^ZTU`Y¥WOSYFWW[^^^TYQV
@HWI-EAS443:3:91:879:96#0/1
ATCGAGACTCCCAAGACCGTACTTAGCATGTAAACATGC
+HWI-EAS443:3:91:879:96#0/1
a`ab`¥a[bb¥a]aa[]aY__a`aa]]``_baa_Wa_Y¥
@HWI-EAS443:3:92:1253:353#0/1
TTCAGGAATGAGAAGATTCCGTATATTGTATAAGTTTGGT
+HWI-EAS443:3:92:1253:353#0/1
```bbaI`[¥Ga\_\_`\_]aS\_]P]`aaaa^a^^]aH`^]]S  
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+HWI-EAS443:3:92:1320:81#0/1  
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+HWI-EAS443:3:92:172:201#0/1  
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@HWI-EAS443:3:92:282:683#0/1  
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+HWI-EAS443:3:92:282:683#0/1  
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+HWI-EAS443:3:92:454:1684#0/1  
¥XZTZRVWXTT\_\_aWU]^`¥]X¥ZW¥``XZK[Y\_NXYQ¥Y  
@HWI-EAS443:3:92:590:214#0/1  
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+HWI-EAS443:3:92:590:214#0/1  
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+HWI-EAS443:3:92:65:348#0/1
[]LYTQ]`_TH]Zb]abb__Z]bab`Z¥V``]]SaVaN[J
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+HWI-EAS443:3:93:1123:708#0/1
a``a__a````a^^aa`_]Xaaa_^a^_^YQUQUVSXBB
@HWI-EAS443:3:93:1266:307#0/1
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+HWI-EAS443:3:93:1266:307#0/1
a^V^Y]a_[SX]]`XX[ZZYa_SUTXV]aU[Y_aaY]_] [
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+HWI-EAS443:3:93:1298:288#0/1
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@HWI-EAS443:3:93:1401:1519#0/1
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+HWI-EAS443:3:93:1401:1519#0/1
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@HWI-EAS443:3:93:946:704#0/1
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+HWI-EAS443:3:93:946:704#0/1
aaaa`^_bab`baaaaaaa¥KS[aU`U`aV`aa^_`
@HWI-EAS443:3:94:1119:1148#0/1
ATGGGCTGGCATTACCACAGCATTGTTTACAGAATGAATC
+HWI-EAS443:3:94:1119:1148#0/1
[``^^`¥a¥I`¥`]`Z^_`_Y¥UW^aWQO`]^_PHa^a`
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@HWI-EAS443:3:94:1351:1390#0/1
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+HWI-EAS443:3:94:1351:1390#0/1
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TCGAGTCTGGACGGATCAAGAAAGAGGAGTTCTCTGAGAT
+HWI-EAS443:3:94:1421:1010#0/1
W_T[TVV_QZU0_a00XUSa`^[]RH]R_LZ^[]P_```
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+HWI-EAS443:3:94:470:1683#0/1
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+HWI-EAS443:3:94:667:1013#0/1
aa]a__Z_ab^^a`aaaab`aaaaa`_YYSY`__]_a_
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+HWI-EAS443:3:95:1195:1227#0/1
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+HWI-EAS443:3:95:1516:371#0/1
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+HWI-EAS443:3:95:443:1405#0/1
a^b¥abbaaab]WZa_]W^HU`aR]GZV^_W[S]Y¥`a
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+HWI-EAS443:3:95:449:795#0/1
_Z]_XZW^QZ_SUFVP_^YLR]aXWXYGWa_SV^HN[FS[
@HWI-EAS443:3:95:465:327#0/1
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+HWI-EAS443:3:95:465:327#0/1
abbbbaab^b^IX`a`a`aa^Yaa`X_a^]_¥`^_]^`V

@HWI-EAS443:3:95:469:1029#0/1
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+HWI-EAS443:3:95:469:1029#0/1
a`YaaTa_`¥a]SX^Q¥S[^[_a_[Y^_^_a^]^^`_W^
@HWI-EAS443:3:95:548:64#0/1
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+HWI-EAS443:3:95:548:64#0/1
a[`ab^]aYa^VUaTYD[_SWU]ZX]VXZ¥FFPU[`HMDK
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+HWI-EAS443:3:95:566:1594#0/1
`abb`b_b_U]`ab[TZa^_b_a`_aU[VU````_aaZ]¥a
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+HWI-EAS443:3:95:594:1403#0/1
¥Y¥_Xaba`a^`aabba]`aYa^R_X_aabaaaa^aY[R
@HWI-EAS443:3:95:785:1849#0/1
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+HWI-EAS443:3:95:785:1849#0/1
a`aa__`aa_`aaa_a`_a_aaaaaaa`_a^__a_¥_a`
@HWI-EAS443:3:95:953:1269#0/1
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+HWI-EAS443:3:95:953:1269#0/1
aab```ba_bbabaabab]aaaa`baaaaaa[_]R¥PY]
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+HWI-EAS443:3:96:1099:1641#0/1
aab`bb^baa`Xaaaaabaaa_b¥b_aaaa`aZY^`a]``
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]_`a¥¥Y_¥^a^]b`KXI^baaa[aab_^]^[`aaY]00b
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+HWI-EAS443:3:96:739:2016#0/1
a` `bab`ab_`_^a0a¥a¥G`aaX^¥_¥OMW__WX` `MBB
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+HWI-EAS443:3:96:890:705#0/1
a_`a`Xa`YQZ_¥`a[OZV^`YKYS^¥XUVUVZXUUZRSB
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+HWI-EAS443:3:97:1205:294#0/1
^]b]aba]bbb_Xbaaab¥a_aaT`a]PQ^a]]G]aWZD
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+HWI-EAS443:3:97:310:1610#0/1
aaaa_`aa_a`a`a`a`aa_a^`^aa]aaZQ_`_]a_
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+HWI-EAS443:3:98:1040:285#0/1
]`aa^`^Zaaa^]a]F_]_Ya``WUWa_`aYa_a`X]`
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+HWI-EAS443:3:98:1329:377#0/1
ab^bbababa`^^abbaba¥^]a[¥^_Pa^VZ]a¥a_YY
@HWI-EAS443:3:98:250:87#0/1
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+HWI-EAS443:3:98:250:87#0/1
¥``aaaa`ba¥a^^`a_a^b``bb`b`a^a^]aZ_`_]`
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+HWI-EAS443:3:98:406:1151#0/1
a`]bbabbabaaa^`_aaa_Yaaaa_`Wa]UaaZ^^^a^
@HWI-EAS443:3:99:1511:1809#0/1
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+HWI-EAS443:3:99:1511:1809#0/1
^^ab¥a^aWaW]V_a_WaHZVU`ba__V`¥0`[¥H__^JW
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+HWI-EAS443:3:99:1602:127#0/1
_ba_GXa`ZaNaa¥`¥`]a`]a¥_`aG¥`T`0_IRGT0`]B
@HWI-EAS443:3:99:1629:1667#0/1
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+HWI-EAS443:3:99:1629:1667#0/1
ab]`ababYaG^baaaba]aY[`aaa_a_abaZb0a]aaa
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+HWI-EAS443:3:99:162:898#0/1
aaaU^b_abbab`ab`abbaa`aab[`_`^aaaUaaab^a`
@HWI-EAS443:3:99:181:630#0/1
GAAAGTGGACGACAAACGCAGAGACTGGTGCACCCAGCT
+HWI-EAS443:3:99:181:630#0/1
aaaab[a]``b__a`a_a_^a¥_^^_¥_N_R[UV^W][W¥
@HWI-EAS443:3:99:607:214#0/1
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+HWI-EAS443:3:99:607:214#0/1
V¥`^b``^Wa]LZUPZPa]`ZN_JV]V[`^PUZ[BBB
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+HWI-EAS443:3:99:77:621#0/1
]aYWRHY^b_RZ[YRWa[_b`[_^]`_ZR_`W_[ZX[_```
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AAAGGGATTGAGGGATTACAAAGTCTTCCCCGAAAATCA
+HWI-EAS443:3:9:318:370#0/1
_U_Z¥RV¥]_S^PNOTWOTQ]`WZBBBBBBBBBBBBBBBB

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+HWI-EAS443:3:9:609:359#0/1
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@HWI-EAS443:3:100:1622:952#0/1
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a_J_bab^^aa]^`baaa`Z`X]b`aaa]^_S`^¥`a]B
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Z¥NW]W]`aaba_^XTZOTU^][_S]a__[[SXZZHWZ
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+HWI-EAS443:3:10:40:782#0/1
`b`_]aa^b[_^Taaabb^]a`LZV^OHY]aa`HW^^Q[
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+HWI-EAS443:3:12:243:637#0/1
aT]N__][J][T___`VLSU¥a][[_][Y[XLT_XRVYV[
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+HWI-EAS443:3:13:207:1212#0/1
a]]M^`_¥Z`RYaaa`Y`aYa`aUYaXb_`¥Y`_]PR¥Q
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+HWI-EAS443:3:14:1135:1172#0/1
abbbba_b```_b^^bYaaa¥aab^[aabaab`a¥`aaS
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CAGCATCACTGAGTCCTGGGATGATGATGGGCATGTTTAA
+HWI-EAS443:3:14:737:876#0/1
aaabaa``aaa]]Va`aaaa^`a_aa_a`_^¥__`V_^_^
@HWI-EAS443:3:15:1359:469#0/1
GAATATTTGAGAATTCATGCCTTGAAACAATGGAAGTCGT
+HWI-EAS443:3:15:1359:469#0/1
a¥[_b^[_¥``ab`[^ba^a`aaaS¥]a¥Y]`¥`^aWX]]
@HWI-EAS443:3:16:1471:1378#0/1
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+HWI-EAS443:3:16:1471:1378#0/1
]D]abba`bbaaa[`]bb_aaaaabaaa^aaaaa]a`a
@HWI-EAS443:3:17:273:240#0/1
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+HWI-EAS443:3:17:273:240#0/1
aaaaa_a`a`a_a_____^`¥¥`W`¥`_`____¥__^`_`KDV¥
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+HWI-EAS443:3:18:1553:1499#0/1
````aWS¥bSQ¥T`b]aV\_VbTX`^`RYa]J`ab]`X[\_PL  
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+HWI-EAS443:3:19:313:1334#0/1  
a`Z``^a`a`]GT[a^¥`]ZQZZX]aaa\_ax0¥Z][\_a^  
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+HWI-EAS443:3:1:609:908#0/1  
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@HWI-EAS443:3:22:424:130#0/1  
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ab\_Y\_aa\_aa\_^\_\_`Z`a¥¥a``\_a`a]^¥\_]^^\_Y`^`  
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+HWI-EAS443:3:24:772:125#0/1  
a\_[U^¥YL]\_[¥\_]UZ\_X]]PYZ[V\_¥Va¥^\_^]Y[FMQT  
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+HWI-EAS443:3:25:1558:1545#0/1  
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+HWI-EAS443:3:25:1559:481#0/1  
aM[[JOR¥\_SYKQY\_]\_] [Y\_X^¥YYU]XS`]OX^[UGOX  
@HWI-EAS443:3:26:298:1534#0/1  
CAGCATCACTGAGTCCTGGGATGATGATGGGCATGTTTAA  
+HWI-EAS443:3:26:298:1534#0/1  
a]`^`^a`aa``\_Y\_]\_`^\_\_^]]][\_^]OX\_][][]]^^^  
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+HWI-EAS443:3:26:831:289#0/1  
a\_\_aaab\_aa`aaaa`ba^a\_``]\_`^\_\_\_\_\_`\_^`V¥\_\_  
@HWI-EAS443:3:28:405:185#0/1  
GGCCGACTTCGAGTCTGGACGGATCAAGAAAGAAGAGTTC  
+HWI-EAS443:3:28:405:185#0/1  
`WHbXY\_aaa¥\_¥G`aaa\_a^Z\_\_URT^Z\_]Y¥]]^VVT  
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GAATATTTGAGAATTCATGCCTTGAAACAATGGAAGTCGT  
+HWI-EAS443:3:28:68:856#0/1  
ababbbabbbbaaaaaabaabbaaaa]aabaaaaaaZ\_^X  
@HWI-EAS443:3:29:1556:1394#0/1  
CTCCTATATGAACTGCTAGGGAAAAATTTCTCGAATATCA  
+HWI-EAS443:3:29:1556:1394#0/1  
aa``\_0[V`I\_\_\_\_^aKTVZU¥]`aZ`^]`babSPYX¥]]

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+HWI-EAS443:3:2:1618:1516#0/1  
aaaZa`aaa`b\_aa^0a[W`aa`\_a\_`\_`\_]aIDQ^  
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GTCGTTCAACAAACAAGGGTAGATAAACTAACTCAAGGTC  
+HWI-EAS443:3:2:829:1144#0/1  
`TU^Y¥a¥SPYa`Y^\_\_\_YN]`S¥RZZQ^\_UU]O`]^`OY  
@HWI-EAS443:3:2:86:1926#0/1  
AAAAATTCCAGCGCAAATGCCATAAGCACCATTCCTACT  
+HWI-EAS443:3:2:86:1926#0/1  
a^a\_\_^ZNW[WS\_W¥]XX^SXXWX^Z^S]XXXOZZZWGBB  
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CACGTGTTCTGTTTACTGTGTCCATGGTGTATCCTGTTCC  
+HWI-EAS443:3:30:528:286#0/1  
ab\_ba`Xa`ababQ\_aba^a\_b]aab^ZaZa`a`\_`^`^`  
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GGCCCTCCATCTGATACTAATAGCCCTACCTTTGATTGGG  
+HWI-EAS443:3:31:892:1187#0/1  
SaZ\_b^^]S\_a^ab]\_Z`bbW^^aaaZb]^aUZ^Z\_\_ZZa  
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+HWI-EAS443:3:32:1099:1207#0/1  
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+HWI-EAS443:3:32:378:1398#0/1  
\_baaa]`bb`b`SZaa^Ua¥]\_¥aZa[a\_\_]XYX^`NGZR  
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+HWI-EAS443:3:33:426:1739#0/1  
abaab`b\_a\_VMR\_a\_`\_`[^Y\_\_`^`^`\_]Z¥\_a\_Z  
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CAGCATCACTGAGTCCTGGGATGATGATGGGCATGTTTAA  
+HWI-EAS443:3:33:482:688#0/1  
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+HWI-EAS443:3:34:1592:1513#0/1  
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TCGGGTCCCTCCATCTGATACTAATAGCCCTACCTTTGATT  
+HWI-EAS443:3:34:1629:1433#0/1  
aaa`Y[aaa`a`[a\_¥`a^a`X[^\_\_^]XVX]^XXYX  
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TGTGTCCTCCATCTGATACTAATAGCCCTACCTTTGATTG  
+HWI-EAS443:3:35:1506:1015#0/1  
a`^a\_\_`aaa\_a^^`^^`\_\_`\_[YaY]V]^`[^[\_U]  
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CCCTCTTTTTAACTTGCCTCTCTCTGCATCTTTGGTCATC

+HWI-EAS443:3:35:809:529#0/1  
aaa\_]Yaa^` [ `\_\_aaa` `aa\_\_WW` ^`\_a` ]\_]X^^\_`  
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TGCTGGGTTGTTATCTCTATTTCTCTTTGTTTCATTGATT  
+HWI-EAS443:3:36:1162:478#0/1  
aaabbab^aa\_\_^`Z`aa¥\_a[]^` ` \_`a\_]^[ ` \_`[W]]  
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CCTGGGTCGACTTCGAGTCTGGACGGATCAAGAAAGA  
+HWI-EAS443:3:36:644:1393#0/1  
aa]\_]`Ua`aaaa` ]Z\_Wa` []]^` ^`W` a\_Z]` [[PXVQ  
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+HWI-EAS443:3:37:1708:361#0/1  
a^D^bbbbb`abbbbbb] ]^bbaba\_abbbbabbba  
@HWI-EAS443:3:39:530:33#0/1  
TGAGAATAGAACGATTCTTGGGAATCCAGGAATGNGT  
+HWI-EAS443:3:39:530:33#0/1  
\_\_GYa^] `a^a\_\_S\_aaa]Y¥^]\_¥^] ] [[^]\_QM¥XDPU  
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ACGACTTCCATTGTTTCAAGGCATGAATTCTCAAATATTC  
+HWI-EAS443:3:39:545:230#0/1  
abba`¥ab` `ZV[^aaa¥a]\_W¥¥]V]\_\_TKRYX]\_` [P  
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ACGGGGAGCCCAGACTGTTCAAGCTTTTCGCAAATGCTCC  
+HWI-EAS443:3:43:1265:1559#0/1  
aabbba¥aaaa]aa\_\_baa` \_`\_a]a^\_ZR¥\_\_^]TZ\_Z]  
@HWI-EAS443:3:44:674:22#0/1  
CAGCATCACTGAGTCCTGGGATGATGATGGGCATGTTTAA  
+HWI-EAS443:3:44:674:22#0/1  
[¥ab[Kb^H` ] [aXTL\_]TZ`SaVa¥GTa[aa\_\_a] `Z`U  
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GTATTCTGTTTACTGTGTCCATGGTGTATCCTGTTCCCTGT  
+HWI-EAS443:3:47:209:428#0/1  
aZ`\_`a`aa¥a`\_U\_\_` `YYZ`^Z^Y^V]^`^^`\_X]^X]]X  
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TTTGTGGCTAATTTTAGCATGGAGCTACCCAGCTTTGTAG  
+HWI-EAS443:3:4:1099:897#0/1  
^Z`\_OV\_OQ` ` \_Y`^V^JTYQOO^QWZXL¥Y[EY\_aYHYU  
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+HWI-EAS443:3:4:241:1217#0/1  
aaa]bXb` ^Z^Z\_OZ^U]T0]XZ` T[]Wa]KN[S^KHKXO  
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CTTGGGAGTCTCGATACTGAATCTTGGACAAAAGAAAAC  
+HWI-EAS443:3:50:368:444#0/1  
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GAATATTTGAGAATTCATGCCTTGAAACAATGGAAGTCGT  
+HWI-EAS443:3:51:1075:1394#0/1  
aaaa`bbbbabaaaa^aa\_a^ba\_a`a\_a^aaa\_`a]X[]  
@HWI-EAS443:3:51:326:750#0/1  
GGCTCCTCCATCTGATACTAATAGCCCTACCTTTGATTGG  
+HWI-EAS443:3:51:326:750#0/1  
abaaaa`\_aaaa^aaYa`aa`)\_`\_a`\_¥aaaa`\_`\_a  
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GTCGGCCAATGCAGTTGCTGCCGTTGATTTCTGTTTAAT  
+HWI-EAS443:3:51:32:470#0/1  
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@HWI-EAS443:3:51:828:1064#0/1  
AGCAGACTTCAGGAATGTGAAGATTCCTGATATTGTAAAG  
+HWI-EAS443:3:51:828:1064#0/1  
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+HWI-EAS443:3:54:507:25#0/1  
`b\_abb`b`\_a\_ba¥aaaa`Ya\_a]a`aa¥a`\_^`aaXD¥\_  
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+HWI-EAS443:3:55:1323:1305#0/1  
Q¥VQYU¥S[Sabb^R^HTQ`]¥aW]aSZ[U]I`]M]LDDR  
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+HWI-EAS443:3:57:577:138#0/1  
ababbbaba¥\_bba\_baa^`bb\_\_a`\_¥\_aaa^a`aZaa  
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+HWI-EAS443:3:58:1171:803#0/1  
a\_aP`abaaaa]a\_a`a]`\_a^`\_^[]¥^a`\_a^¥¥a\_S  
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AGGGGCCTTCTTTTCATTGCCCTACTGGGAGCCCAGAC  
+HWI-EAS443:3:5:1220:886#0/1  
ab¥abbbbaaabbbabaaaaaXW]aa`b^RW¥a`WJ]b\_Y  
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+HWI-EAS443:3:5:34:457#0/1  
aab^aaaabbbaa`\_aa\_aaaa^`\_^a\_\_`¥^^`\_a``[  
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GTCGTTCAACAAACAAGGTAGATAAACTAACTCAAGGTC  
+HWI-EAS443:3:61:681:1334#0/1  
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+HWI-EAS443:3:63:1363:1432#0/1  
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+HWI-EAS443:3:64:631:988#0/1  
J\_`b]¥[Wbb`T¥`b`[ZSabbay¥UYa`aaba``a¥`  
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+HWI-EAS443:3:65:1313:105#0/1  
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+HWI-EAS443:3:65:1696:251#0/1  
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GAATATTTGAGAATTCATGCCTTGAAACAATGGAAGTCGT  
+HWI-EAS443:3:65:25:755#0/1  
\_ba\_V¥^`^`]^aa\_a`¥^aaa`a\_\_P\_^L[aa^¥^JVVP  
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GAGCTCAGAGAACTCTTCTTTCTTGATCCGTCAGACTCG  
+HWI-EAS443:3:66:1256:1132#0/1  
aa^a\_aaa]^`a``aaaaa`¥a\_V`\_¥\_\_\_Y`\_^`\_U¥U  
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CACGGGCTATCGCAACACCTGGGATGCAGATTAGAGGTTT  
+HWI-EAS443:3:66:295:1728#0/1  
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+HWI-EAS443:3:67:1115:559#0/1  
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CTGGGCTCTTCAATTGTTTCATCAAAGACTACAGATACACA  
+HWI-EAS443:3:68:1225:629#0/1  
aaZ¥a]\_Yaa``\_] ^¥Pa]^`aaY`a``Taba^`\_a`¥]W]  
@HWI-EAS443:3:6:396:1960#0/1  
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+HWI-EAS443:3:6:396:1960#0/1  
[YVSWabbb\_¥`b^Y^[¥G\_[aaa]XO\_[a`aaab\_b\_^W  
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GGCGTGTCTGTTTACTGTGTCCATGGTGTATCCTGTTCC  
+HWI-EAS443:3:70:571:1542#0/1  
]\_H\_[\_Xab]b\_]bbaa\_a[bbaaaaU`\_]\_^baaa\_\_^^  
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GGTCGACTTCGAGTCTGGACGGATCAAGAAAGAAGAGATC  
+HWI-EAS443:3:71:1293:1529#0/1  
aaIaT^Za`[RaKLSP]\_SOVb`TU\_[TP`IPZ`ZaaG[W  
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+HWI-EAS443:3:71:1503:1433#0/1  
¥a¥W]aab]bbbb¥¥\_``a¥\_``bbV\_W\_aa]]Tbbaba  
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TGCGATTCTTCAAGGAAAGCCATAGCCTCTAGAACACAGT  
+HWI-EAS443:3:71:55:869#0/1  
`YF[T^`b]U¥^V^^^`^baa[Ta\_aa\_^\_a¥[XY`\_\_^T

@HWI-EAS443:3:71:592:1900#0/1  
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a[aa`Yabaa`[TL```a\_YRaa^`]`\_^baYPV^U\_^^\_  
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+HWI-EAS443:3:72:161:1580#0/1  
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+HWI-EAS443:3:73:580:1879#0/1  
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a^`aab^baa`J\_\_`ab¥R\_aaa]^]GM\_aa`a]¥\_F`a  
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TGGGTCTGGACGGATCAAGAAAGAAGAGTTCTCTGAGATC  
+HWI-EAS443:3:75:721:1756#0/1  
\_```Zaa`\_\_baa``\_a^`]ab\_\_aaaa\_aa`aaaa^\_\_`  
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+HWI-EAS443:3:78:911:542#0/1  
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aaba]ababbbb\_a^`baaaaaa`[`aaa\_]¥a`a`a]  
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GTCTTGGTGTGTTCTGTTTACTGTGTCCATGGTGTATCCT  
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aWD[aba0a[\_Xa[\_a`a[[S``]^\_aaa\_``Y\_Y`a\_]^  
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TGGAGGTCCAAGGTCATTGTTTATCATGTTGTTCTTTATC  
+HWI-EAS443:3:86:1688:620#0/1  
¥[FO]\_X]T`b^WR¥[`bbUU\_aaV`a^`[\_`\_aZ^\_\_Z`¥  
@HWI-EAS443:3:88:1208:1533#0/1  
GGGGTGTCTGTTTACTGTGTCCATGGTGTATCCTGTTC  
+HWI-EAS443:3:88:1208:1533#0/1  
aaGaXa`a\_a^RYa\_Z^aYa`\_]\_a``Y]U`X¥NGV\_]P[  
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+HWI-EAS443:3:88:1313:1715#0/1  
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+HWI-EAS443:3:88:266:254#0/1  
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+HWI-EAS443:3:88:542:239#0/1  
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+HWI-EAS443:3:90:1018:1822#0/1  
aaa`P`ba`ba`aaaa\_`a\_¥`a`a`a]Y`^DS]  
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+HWI-EAS443:3:92:1632:1877#0/1  
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+HWI-EAS443:3:99:1664:760#0/1  
aZaZ0bbba`aWa`YS`baa[`[Y¥a^`\_a^`\_¥`a]X  
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GTGCCTTCTTTTCATTGCCCTACTGGGAGCCCAGACT  
+HWI-EAS443:3:9:995:618#0/1  
aaaba\_baaabab`aaaa\_\_aa\_a`^`\_a\_^\_]¥`^¥`  
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+HWI-EAS443:3:100:866:787#0/1  
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+HWI-EAS443:3:10:1527:1928#0/1  
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+HWI-EAS443:3:12:1705:552#0/1  
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+HWI-EAS443:3:12:94:1691#0/1  
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@HWI-EAS443:3:13:703:1666#0/1  
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+HWI-EAS443:3:13:703:1666#0/1  
aa`baaaaa`a`]aaaabZ`aa\_`^a^`\_`ZD]`aa`^a  
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GGTGTCTAGGGCCCGATTGATGCCANGTTCGACTTCGAG  
+HWI-EAS443:3:14:1714:851#0/1  
a`S`ZSSX]^TNyr^Z^^ZTPTDTTTSZYTTN#TB  
@HWI-EAS443:3:16:110:872#0/1  
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a`Zaa]Z`^b`^XD[\_a^\_a¥`¥Y^WY]X^^R^]UZZSGW  
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+HWI-EAS443:3:16:508:1124#0/1  
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+HWI-EAS443:3:17:904:1184#0/1  
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+HWI-EAS443:3:18:1565:928#0/1  
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+HWI-EAS443:3:18:1593:1411#0/1  
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+HWI-EAS443:3:1:1060:564#0/1  
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+HWI-EAS443:3:22:1387:767#0/1  
Z¥Z`^^aba]\_^VS\_¥`W^`aX0^a``¥[DRa`\_¥X`]aa  
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\_Z``abZD]b`aaa\_abaaa`a\_aaa\_a`a\_bXa^ZQ\_^]  
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+HWI-EAS443:3:26:1188:638#0/1  
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+HWI-EAS443:3:27:702:806#0/1  
`^a¥DZ``a^a\_\_\_Xa\_]^\_\_^^ZUW^)`\_]^\_\_XV]\_YV  
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a\_bb^\_]W]ba\_bb]b`]DXa`a`a\_\_aa\_aa`]a]`\_`\_  
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a`aaaa\_aa`aa]aaa¥D[^W\_`V¥\_U```¥``^[^W  
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+HWI-EAS443:3:31:571:529#0/1  
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+HWI-EAS443:3:31:751:1240#0/1  
aa````\_bbaaaba^X`a\_abaa`aba\_^a`\_a`^DX^a\_^  
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GCTAATTTTAGCATGNAGCTACCCAGCTTTGGAGTGTCTG  
+HWI-EAS443:3:32:1018:1312#0/1  
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+HWI-EAS443:3:32:96:1585#0/1  
aa^`^^`babb`]\_ZD^aa`V`aa`aW^aaaa``aa\_a^^  
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+HWI-EAS443:3:35:20:1996#0/1  
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+HWI-EAS443:3:36:1510:736#0/1  
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+HWI-EAS443:3:36:1669:1443#0/1  
]abbabbbbab\_[D[abbbUba]aX¥¥ba`a]bb]a\_^`  
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+HWI-EAS443:3:38:523:1368#0/1  
ab\_YD]`baaba`aab`b\_\_aT\_bV0Zaa^a`\_\_a`a\_Z  
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a[baaba\_aba¥D]\_b\_a`a`\_Y\_aa[a\_\_\_X¥a]Q¥VVZ  
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a`^WW]bb\_\_abYa]`aa¥YP\_W`\_^IU`\_VD¥\_\_aa\_`]  
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aaa`a¥aaa\_\_aa```aaa^^a\_SDV\_\_[\_]`\_^UUW



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a\_a`Y``]aaa\_]^[^`R`[^\_] ^OFYZXD¥^VF¥V\_S  
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a`^^a`\_a\_]¥SZ]\_\_TY`¥]\_VUUU^XTDX^ZZHXNQ  
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+HWI-EAS443:3:48:1030:1156#0/1  
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ab`baaabaaaaa\_aaaaa\_a]a[\_a`Z^TDZZU\_] ^  
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+HWI-EAS443:3:50:1046:557#0/1  
X```\_ ^ab` ^abb\_baa^UZ`a`]¥aab`a]DT`¥¥``^]  
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¥aabaa\_baab¥bb[DZaabab`¥bba`aaa``bbbb``  
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+HWI-EAS443:3:52:1599:1270#0/1  
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@HWI-EAS443:3:52:781:1480#0/1  
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+HWI-EAS443:3:52:781:1480#0/1  
W¥\_[S`b`b`b^\_a[^YDQ]Xa]`[YM]U`U¥\_aaa`a`Z  
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GAAATTTTTCCCTAGCAGTTCATATAGGAGACCCNGTTGGA  
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aaa`a`aa``^¥\_¥`Wa^\_\_^\_]Y\_\_^\_] [NDZZ^\_^^  
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ATTGATGCCAGGGTCGACTTCGAGTCTGGACGGATCNAGA  
+HWI-EAS443:3:53:574:1923#0/1  
a`bba`¥a] [¥XaV^`\_T`\_[aSX]S[[RS`¥`RQRD[`\_  
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AGACTAGGGAAAGGTACANGTTCGAGAGTAAAAGAATGA  
+HWI-EAS443:3:53:687:1301#0/1  
\_ ^W\_¥Z`\_`^\_^\_^ [Y¥TD]`\_\_\_\_^Z\_SZW^\_baZaaX  
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+HWI-EAS443:3:56:1486:815#0/1  
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+HWI-EAS443:3:58:1143:1536#0/1  
aa\_`a^DTa\_a``aa`abaaaa`aa`aa``¥a\_``\_a^a  
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+HWI-EAS443:3:59:1315:811#0/1  
aa\_a]V\_^D^b`a`^\_aaUa[]`baaa\_YbaXa¥YDDXYW  
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+HWI-EAS443:3:59:1329:1067#0/1  
ab^aaaaW¥aaabaaaa\_\_][b¥`^b`ba\_\_a[DR[a]¥  
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+HWI-EAS443:3:5:1169:1221#0/1  
abaaaaaba^a`a`a\_a`ab`WDX]\_b^^b\_``\_Y`\_^]]  
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+HWI-EAS443:3:60:1492:466#0/1  
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CAGTGATTGTGAAAGAAATCTNTGTGTCTTGTGAATTAGT  
+HWI-EAS443:3:61:1222:1151#0/1  
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]baa`VZ`b^b¥bY`ab`\_]a[XDT\_a]aa]]][a]\_`  
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+HWI-EAS443:3:62:1706:260#0/1  
a\_ababbaa]D^b`Q\_baabb`a]^a\_]ab`aa````\_aa`  
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+HWI-EAS443:3:63:852:1405#0/1  
aaa`^a`aaaa\_\_`aa`aaWaaaa\_```aa``PD[X`\_a  
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+HWI-EAS443:3:64:1155:651#0/1  
aa¥`baaaXD^aaaa\_aaa\_a]a`\_`^`\_\_\_\_`a^`W]\_`  
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CATGGAGCTNCCCAGCTTTGGAGTGTCTGGAGTAAATGAA  
+HWI-EAS443:3:64:1394:274#0/1  
a`baa]aa^D0]a`aZaaa]a]^Z\_\_^a`]Pa^^``^]Z\_  
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+HWI-EAS443:3:64:1683:1759#0/1  
XW¥Z\_ZD¥a¥bbbb`ZZ]\_\_^`RW]a`Wa¥a````\_`\_¥X  
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+HWI-EAS443:3:65:185:1036#0/1  
]Z^^aaaaa`\_]`ZZD¥`[]X¥]ZZR[^^W[YZYVXZ[ZT  
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+HWI-EAS443:3:66:1166:728#0/1  
SZ`ZS¥S`Y]D]VY¥\_`¥XWa`]^b\_Z`a]^`a^WMOYV]  
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+HWI-EAS443:3:66:1610:1419#0/1  
ab`bbbbbbbaabbYD¥aaaaaaaaaaa[aaa`baaa\_``\_\_  
@HWI-EAS443:3:66:705:472#0/1  
GTAAACAGAACANACCAATACTCAGAAAAGGGAAAGTGGA  
+HWI-EAS443:3:66:705:472#0/1  
aaa`X`\_aaaa¥DVaa`[`a`\_`a`a]¥[`a`\_`\_ZU]Qa^\_  
@HWI-EAS443:3:66:838:1860#0/1  
TGCAGGTCCAAGGTCATTGTTTATCATGTTGNTCTTTATC  
+HWI-EAS443:3:66:838:1860#0/1  
aaaba\_Y``a``X[abb`bVaa^abaab\_b[D]abaaa`[  
@HWI-EAS443:3:68:1478:1374#0/1  
GTTGCGATAGCCNTTCTTTTAACTTGCCTCTCTCTGCAT

+HWI-EAS443:3:68:1478:1374#0/1  
\_Nabb¥aba¥a[D[aaabaab¥\_RaaaZY\_\_a` `\_\_\_¥a`  
@HWI-EAS443:3:68:857:459#0/1  
CGACGATTTTGCTCNCATAGTGAATGCACCAAACCATGAG  
+HWI-EAS443:3:68:857:459#0/1  
\_b`b`a^abbbb^D^baa` `a^aaababab^a^a]` `ab  
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GGGCTCCAATCATCCGACGNTTTTGCTCTCATAGTGAATG  
+HWI-EAS443:3:69:1332:241#0/1  
\_Sa`^`aa]]a¥Wa`Z\_\_XDUWa`aX[^\_]`\_`\_aTav^a`  
@HWI-EAS443:3:69:311:702#0/1  
GGATGGGCTCCAATCATCCGACGATTTTGCTNTCATAGTG  
+HWI-EAS443:3:69:311:702#0/1  
]`abaaabaabaaaabaaa`a`aaaaaaaa¥DWaa`\_a^a  
@HWI-EAS443:3:69:643:1209#0/1  
GTTGATCCCACTAACTTGCNGGTCCTGTAGAATCTGTCC  
+HWI-EAS443:3:69:643:1209#0/1  
a` `^`aabbaabaaaaaa¥DZ\_Waaa`\_a` `a`a` `V`\_`  
@HWI-EAS443:3:6:1315:2032#0/1  
GCGAAAAGCTTGAACAGTCTGGGCNCCCAGTAGGGGGCAA  
+HWI-EAS443:3:6:1315:2032#0/1  
a`\_`a` `¥a\_\_XaR`RZ[U¥¥¥¥¥PDHLNT^S¥[W^WXVZB  
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TTGNGCATACCCACTTGGTTCATTATCCTCAGGTAGTGGT  
+HWI-EAS443:3:6:1544:1288#0/1  
aa¥D^T]ab^\_bY`aaaa`^Q]aT[a^\_\_Y`a`V\_\_^`UB  
@HWI-EAS443:3:6:400:1766#0/1  
GATTGATGCCAGGGTCGACTTCGAGTCTGGACGNATCAAG  
+HWI-EAS443:3:6:400:1766#0/1  
`]aVYXa`ba`\_XTHaaa[Y\_]`\_VN^¥[Z\_`¥DPP¥[\_]  
@HWI-EAS443:3:6:736:50#0/1  
GGTAGATAAANTAACCTCAAGGTCGCCAGACTTATGATTGG  
+HWI-EAS443:3:6:736:50#0/1  
ab`bbaaba¥D^a`¥a\_a`a`Y\_a^Y\_b^U\_a^`a\_aaa\_  
@HWI-EAS443:3:70:1105:71#0/1  
GTTCGAATCTTCATTCTTTTANTCTCGAACATGTACCCTT  
+HWI-EAS443:3:70:1105:71#0/1  
a\_aab` `aaaa`\_`a`\_]`^WDLT¥Y]X^¥P`^V^VSY^]  
@HWI-EAS443:3:71:1492:578#0/1  
TAGCCCTTCTTTTNAACTTGCCTCTCTCTGCATCTTTGGT  
+HWI-EAS443:3:71:1492:578#0/1  
aaaYR^bXaba^DV`\_Y^aUJUMU[\_X\_ZHabI\_¥`L\_Q  
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GGAACAGATCTTCATGATCTNAGAGAACTCTTCTTTCTTG  
+HWI-EAS443:3:72:433:1494#0/1  
`bbbbbbbbbaabb`a]baYD^\_b]]baaba\_baaaab` [  
@HWI-EAS443:3:73:1098:826#0/1  
GCTTGTATCCCTCATGGTTTGGNGCATTCACTATGAGAG  
+HWI-EAS443:3:73:1098:826#0/1  
aabbbbaabaa`a` `aaa`\_aa[DY\_\_a`\_`Za\_aa` `]`\_

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+HWI-EAS443:3:73:1220:537#0/1  
aaba\_bba^aaaaa`aaaXD[aa\_`a`aa^a`^`a```U  
@HWI-EAS443:3:73:1323:1871#0/1  
GAAGTNTTCAGGTCAATGCTTGCTAGCATTCTGCTGGT  
+HWI-EAS443:3:73:1323:1871#0/1  
aaba[DZabbaaa\_bbaaaaa`bababaaa\_aaaaaba0  
@HWI-EAS443:3:73:637:246#0/1  
AGAATCTGTCNACTCCTGCTTGTATTCCCTCATGGTTTGG  
+HWI-EAS443:3:73:637:246#0/1  
a\_^Xaaaa]WDWVaZW¥YV\_`aVY¥^W[^QZS[WYZ\_XFZ  
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AGGCCANGGTGTCTAGGGCCCGATTGATGCCAGGGTCGA  
+HWI-EAS443:3:74:942:802#0/1  
a\_`a\_[DY`a\_Xa`^^`^`^aa^^a`Za]]^Z^^YGPUZ  
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AATTTTAGCATGGAGCTACCNAGCTTTGGAGTGTCTGGAG  
+HWI-EAS443:3:76:1486:1548#0/1  
abbaaaba[^bbaaa^aa]ZDX`\_aaaba]aY`\_\_a`]^\_  
@HWI-EAS443:3:77:1231:1349#0/1  
AATTGAAGNGCCATCTGGGCCGTTGCAGGTCCAAGTCAT  
+HWI-EAS443:3:77:1231:1349#0/1  
aabb` `aYDZa`\_]\_` `aaaT^][Y]TH[^RZPV]``SVVa  
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GGAGCATTGNGAAAAGCTTGAACAGTCTGGGCTCCCAGT  
+HWI-EAS443:3:77:604:353#0/1  
``^abaaa¥D¥aaa`a^\_aa```¥^Z\_]¥[[[\_`¥VZ`Z  
@HWI-EAS443:3:78:458:1587#0/1  
TCCCATAACTTNCAGGTCCTGTAGAATCTGTCCACTCCT  
+HWI-EAS443:3:78:458:1587#0/1  
aabaaba¥baa[DZ`]^`^aa\_W[`]a`^```[\_a\_\_ZV`[  
@HWI-EAS443:3:78:640:368#0/1  
GTGCTTATGGCATTGCGCTGGAATNTTTAGGAAAAGTA  
+HWI-EAS443:3:78:640:368#0/1  
`XZ\_aaaa\_`ZM^[]aXS^N\_a]TT¥DYWWY]SVYSVYS]  
@HWI-EAS443:3:78:968:1419#0/1  
AAGAGATTGATTCTGTAAACAATGCTGTGGNAATGCCAGC  
+HWI-EAS443:3:78:968:1419#0/1  
aa\_]`^`aa`^N\_aX]``aa\_\_\_]\_]`[`YDZ\_YZU^]QX  
@HWI-EAS443:3:78:995:1038#0/1  
CAAGAATTCCCCTTTGGCTTGTGTTGAGAATAGAACNATT  
+HWI-EAS443:3:78:995:1038#0/1  
aaa\_^Y`aa`a` `aaa\_\_a`aYa^\_\_]`¥¥\_`¥^]TDOWY  
@HWI-EAS443:3:79:1054:1707#0/1  
GGCCATGGTGTCTAGGGCCCGATTGATGCCAGGGNCGAC  
+HWI-EAS443:3:79:1054:1707#0/1  
\_aaaa\_V[[`X`¥^\_WW\_`¥\_`a¥¥a\_]\_\_^¥Y\_SDWMSP  
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+HWI-EAS443:3:7:1389:1082#0/1  
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CATCATCATCCCAGNACTCAGTGATGCTGTGCCATCTATT  
+HWI-EAS443:3:82:119:1672#0/1  
\_\_`aa]])Waa`VDWa`[]aXX]X¥\_\_aZ`a`\_Y\_¥^[\_  
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CTACTTTTCCTAANAATTCCAGCGCAAATGCCATAAGCA  
+HWI-EAS443:3:82:1324:1344#0/1  
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+HWI-EAS443:3:82:652:1623#0/1  
aaba¥D¥baaaaaa`\_aaaaaa\_aa\_aaY`\_\_a]a¥  
@HWI-EAS443:3:84:1081:1167#0/1  
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+HWI-EAS443:3:84:1081:1167#0/1  
`^`ab`]ZZZ\_a]\_``\_`a¥^aa`Y\_`Z¥]XXDWW]¥  
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CGCTGGNATTTTTAGGAAAAGTAGAGTCGGATTGACATCC  
+HWI-EAS443:3:84:1358:274#0/1  
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+HWI-EAS443:3:84:1649:1067#0/1  
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CACTACCTGAGGATNATGAACCAAGTGGGTATGCACAAAC  
+HWI-EAS443:3:85:1519:1350#0/1  
ab`^S\_`^Xba`YD¥ba[Y[XT^¥F]TJSa\_a[aZ\_a`0  
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+HWI-EAS443:3:85:182:1301#0/1  
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GATAAACAATGACCNTGGACCTGCAACGGCCAGATGGCT  
+HWI-EAS443:3:86:1156:1096#0/1  
`bbbabbbabb]¥D^bab`abaaaaabba\_\_`b`aa\_\_`  
@HWI-EAS443:3:86:765:1294#0/1  
ACCAATACTCAGAAAAGGNAAGTGGACGACAAACACAGA  
+HWI-EAS443:3:86:765:1294#0/1  
`aa`a\_````aa]])^¥DX``]aaa`a`]¥`[\_]a\_\_  
@HWI-EAS443:3:87:1136:1627#0/1  
CAGTAGGGGCAATGAAAANAAGGCCAAACTGGCAAATGT  
+HWI-EAS443:3:87:1136:1627#0/1  
`a\_[baba^`abbabbb^D]b]`aWabb`bb`\_aabab`  
@HWI-EAS443:3:87:1183:1226#0/1  
GTTCTNTTTACTGTGTCCATGGTGTATCCTGTTCTGTTT  
+HWI-EAS443:3:87:1183:1226#0/1  
aaba[D]aaaa`b]b`aa\_bbbTbYa\_aaaa\_a`\_a`\_a¥

@HWI-EAS443:3:87:538:1499#0/1  
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+HWI-EAS443:3:87:538:1499#0/1  
``a`\_`ba\_baa`aa^DY]W\_]`a`Xaa\_\_\_aaa]`¥a  
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+HWI-EAS443:3:89:420:1770#0/1  
aa`aa`^`\_XaRDSaaaa`\_\_a\_a\_Z``\_`a^aa\_\_¥aWXZ  
@HWI-EAS443:3:8:1034:1098#0/1  
GCCCTTCTTTTTAACTTGCCTCTCTGCATCTTTGNTCA  
+HWI-EAS443:3:8:1034:1098#0/1  
a`]XT\_aa^aa`]\_]`\_]\_[W\_]RjX¥\_^[Y\_^`Y^WDTXX  
@HWI-EAS443:3:8:1220:478#0/1  
TCTTGCCATTTTGTGGAGAACATTATGGGTGCCNTGCTC  
+HWI-EAS443:3:8:1220:478#0/1  
ab]\_b¥W]aaaab`baZb¥`W\_``^aa\_aW^]RDMZ[Z]  
@HWI-EAS443:3:90:1520:757#0/1  
CTTGAGGATGAACAGATGTACCAGANGTGTGCAATCTAT  
+HWI-EAS443:3:90:1520:757#0/1  
``TSO^¥aP¥]aZVV`XYMY`XR\_OD[GXXX`S\_`XY`\_\_  
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+HWI-EAS443:3:90:380:1480#0/1  
ab`a`abba[DZaaa`\_Z\_\_aaaa\_``a`aa``¥^UZ^U\_  
@HWI-EAS443:3:90:401:806#0/1  
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+HWI-EAS443:3:90:401:806#0/1  
aa\_babaa\_a`abaaa[D¥a\_a\_\_\_\_\_¥]`aaaZa\_`\_\_\_\_  
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AGGCNTTATTTTCTCAATTTTCTTCTTTGTTGATTCATTG  
+HWI-EAS443:3:90:916:161#0/1  
abb^D^bababaab`a\_baab`bb\_aaabab`aaa`aaaa  
@HWI-EAS443:3:91:1523:614#0/1  
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+HWI-EAS443:3:91:1523:614#0/1  
`a`SL\_a``bbbbZTab\_a\_¥bb`]aa]Z]DW^¥`\_b]a\_  
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CTCCAATCATCCGACGATTTTGCTCTCATAGNGAATGCAC  
+HWI-EAS443:3:92:975:670#0/1  
abaabaaaaa````baaaaa\_a`a\_aaa¥DY^aaa¥``  
@HWI-EAS443:3:93:1363:478#0/1  
TGTTTCATCAAAGACTACAGATACACATATAGGTNCCATAG  
+HWI-EAS443:3:93:1363:478#0/1  
U`VX\_Z`^aa\_V]L\_^aa^[`U`\_a[`^YOVMdORVa]b  
@HWI-EAS443:3:93:878:512#0/1  
GGTGCATTNACTATGAGAGCAAATCGTCGGATGATTGGA  
+HWI-EAS443:3:93:878:512#0/1  
aa^`S`aZDZ[a\_`^V\_\_a[\_\_\_\_`]]^VRZ\_\_X]]N]¥]  
@HWI-EAS443:3:94:1387:645#0/1  
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+HWI-EAS443:3:94:1387:645#0/1  
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@HWI-EAS443:3:95:407:24#0/1  
GCATACCCACTTGGTTCATTATCNTCAGGTAGTGGTCCAT  
+HWI-EAS443:3:95:407:24#0/1  
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+HWI-EAS443:3:96:810:401#0/1  
abbba]]D]aa\_^baaaSb^aaaaaba`a[`a[`a\_a\_`  
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+HWI-EAS443:3:97:409:1999#0/1  
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+HWI-EAS443:3:99:470:1719#0/1  
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+HWI-EAS443:3:99:564:1986#0/1  
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U¥]aa\_a\_a^\_b]]`¥YS]¥aaa`I[LU\_T¥a\_P[[R\_F¥  
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+HWI-EAS443:3:10:1773:181#0/1  
aa\_aaa\_`\_^aa\_]\_Ya[`\_^\_[T¥`^XPLV\_^W^VVQW  
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a````aabab^]W¥]T\_\_ba\_a`\_aa]aUbZa\_`aa[a\_`  
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+HWI-EAS443:3:12:962:133#0/1  
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@HWI-EAS443:3:13:1737:621#0/1  
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+HWI-EAS443:3:13:1737:621#0/1  
a\_\_`\_aaYa¥VZ\_TZ\_`^`\_`ZX\_YZ¥^`W^`^Z^U^^[  
@HWI-EAS443:3:14:638:1367#0/1  
CAAAGATGCAGAGAGAGGCAAGTTAAAAAGAAGGGCTAAC  
+HWI-EAS443:3:14:638:1367#0/1  
aaaaa`\_a`[\_^a\_a\_\_\_a`\_a¥a`\_U^`\_^a``\_\_\_a\_Z



@HWI-EAS443:3:15:1684:831#0/1  
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+HWI-EAS443:3:15:1684:831#0/1  
`a^`RXP\_bb¥ZSYa[bU^U^^`b¥ROSQ[`[^a^^b`Z  
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ACCTCCTGCTTGTATTCCCTCATGGTTTGGTGCATTCACT  
+HWI-EAS443:3:15:698:1757#0/1  
aaaaaaa\_a`a`]aaa`a\_`^```\_Z`\_\_^]a^`\_^\_\_W^  
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+HWI-EAS443:3:18:1151:336#0/1  
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@HWI-EAS443:3:18:1565:130#0/1  
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+HWI-EAS443:3:18:1565:130#0/1  
]GYS¥][XX`YWZ^VWWSWRWVMRWFVTU^YZ¥YVPTPVU  
@HWI-EAS443:3:18:423:1905#0/1  
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+HWI-EAS443:3:18:423:1905#0/1  
`^a`a^[`¥\_¥b¥^```]]¥[baa¥a[[`I¥NY^ZLL^S  
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+HWI-EAS443:3:1:1736:948#0/1  
a^b`Z`babaabba\_b\_^a\_aba`ba\_bbbaa`bRb\_a\_B  
@HWI-EAS443:3:1:422:1281#0/1  
GGGTGGCTAATTTTAGCATGGAGCTACCCAGCTTTGGAGT  
+HWI-EAS443:3:1:422:1281#0/1  
abaNba[^`ZVa[]a``]]````\_`Z¥[`a\_V¥¥`BBBB  
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CGGGTCTCCATCTGATACTAATAGCCCTACCTTTGATTG  
+HWI-EAS443:3:20:1123:927#0/1  
aabb`babbaaaaabaaa\_aaaaaa\_a`a\_aaa`a]aaX  
@HWI-EAS443:3:20:1324:170#0/1  
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+HWI-EAS443:3:20:1324:170#0/1  
^\_R¥`a[\_V^¥UW¥PVZ¥a^^]Z]V`][X\_] [X[]]  
@HWI-EAS443:3:20:536:838#0/1  
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+HWI-EAS443:3:20:536:838#0/1  
aabb¥[\_]\_a\_a`¥```]aaaa^\_aaa\_\_`a```aa^a  
@HWI-EAS443:3:21:1050:1614#0/1  
CGTGGTGTCTAGGGCCCGGATTGATGCCAGGGTCGACTTC  
+HWI-EAS443:3:21:1050:1614#0/1  
X`\_`[\_`¥a[[\_PIZaXaa```a`ZaaQ`aa`XI`¥`[]V  
@HWI-EAS443:3:21:1439:526#0/1  
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+HWI-EAS443:3:21:1439:526#0/1  
]I^aWQW]V\_\_W¥XXUQV\_^`\_[YY`]LSU`Y\_[^M[\_PT  
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GCTGTGTTCTGTTTACTGTGTCCATGGTGTATCCTGTTCC

+HWI-EAS443:3:21:1744:207#0/1  
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@HWI-EAS443:3:22:1716:717#0/1  
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+HWI-EAS443:3:22:1716:717#0/1  
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@HWI-EAS443:3:22:469:294#0/1  
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+HWI-EAS443:3:22:469:294#0/1  
aXa[Q¥\_R]ZW[LV`aaYZV]VZV[\_a¥Z`X\_ZH[UXTFV  
@HWI-EAS443:3:23:1272:1326#0/1  
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+HWI-EAS443:3:23:1272:1326#0/1  
aaXWabbb¥bbb\_]a]a`aaa\_a^¥]b^\_a`a^`^b\_\_\_\_  
@HWI-EAS443:3:23:1477:1567#0/1  
TNCAGGTCCAAGGTCATTGTTTATCATGTTGTTCTTTATC  
+HWI-EAS443:3:23:1477:1567#0/1  
¥D[b^``bbbaa\_\_abb`aaaa\_abaaa`a]aba`aa  
@HWI-EAS443:3:23:863:749#0/1  
GGAATATTTGAGAATTCATGCCTTGAACAATGGAAGTCG  
+HWI-EAS443:3:23:863:749#0/1  
aaa\_\_`abaa`aa]a\_\_a```[aa```a\_b`a`^`WY[  
@HWI-EAS443:3:24:1119:269#0/1  
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+HWI-EAS443:3:24:1119:269#0/1  
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+HWI-EAS443:3:25:144:1224#0/1  
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@HWI-EAS443:3:25:975:237#0/1  
TGGGGCCCGGATTGATGCCAGGGTCGACTTCGAGTCTGGA  
+HWI-EAS443:3:25:975:237#0/1  
aa\_aaaaZ``\_a`aa]X^NUa]UMW`]SUWU\_UaSG\_\_^T  
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+HWI-EAS443:3:26:278:1877#0/1  
a`XSHaaX`a¥]`a^X`^`[a\_]¥`[[^\_^]Z^^VNZUR  
@HWI-EAS443:3:26:286:1907#0/1  
GACTGGAGTAAATGAATCAGCTGACATGAGTATTGGAGTA  
+HWI-EAS443:3:26:286:1907#0/1  
aYZYaXUFL^^a`¥¥\_]aZb`[Zaa[T] []a\_^[QJQDX  
@HWI-EAS443:3:26:350:691#0/1  
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+HWI-EAS443:3:26:350:691#0/1  
¥^^baaba^\_aN\_aba^]`\_a]^^XXa`aaa^^`\_\_aaa  
@HWI-EAS443:3:27:1348:1549#0/1  
CCAGCCCTTCTTTTAACTTGCCTCTCTCTGCATCTTTGG  
+HWI-EAS443:3:27:1348:1549#0/1  
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@HWI-EAS443:3:27:265:1468#0/1  
GCCCTCCATCTGATACTAATAGCCCTACCTTTGATTGGGT  
+HWI-EAS443:3:27:265:1468#0/1  
\_XaYY^aRRb`]PPa\_`^Y^]aa^aJXa^]W\$\_\_\_]G]ZYX  
@HWI-EAS443:3:28:245:230#0/1  
CGACCTTGAGTTAGTTTATCTACCCTTGTTTGTGAACGA  
+HWI-EAS443:3:28:245:230#0/1  
aabaabaaa`aaa\_aaaaaaaaa\_\_aa\_\_aa]a\_[PT^[  
@HWI-EAS443:3:28:569:1306#0/1  
CTCCAATCATCCGACGATTTTGCTCTCATAGTGAATGCNC  
+HWI-EAS443:3:28:569:1306#0/1  
`\_¥^`U\_b`bbbaa[^a^`aa¥]\_a\_]a^`^Ta`X]ZLDL  
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GCTGGTCCATCTGATACTAATAGCCCTACCTTTGATT  
+HWI-EAS443:3:28:955:42#0/1  
`N`aaT][``\_`X\_\_`¥M^\_\_\_Z^XXUTWNX\_\_\_\_Y[V  
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CAAGGAAAGCCATAGCCTCTAGAACACAGTCTGTTTGTNG  
+HWI-EAS443:3:29:1563:1373#0/1  
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+HWI-EAS443:3:29:598:1038#0/1  
Y¥WSS]P¥Z\_]XT¥¥\_WWQ`Z¥RXV]]Y`P]TZX^[`BB  
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+HWI-EAS443:3:31:1040:1836#0/1  
\_J]b`]¥]S¥aa\_]\_[a`¥^a`X[]XN\_\_`]VNVYSWO  
@HWI-EAS443:3:31:774:1464#0/1  
TCGACCTGCAACGCCAGATGGCTCTTCAATTGTTTCATC  
+HWI-EAS443:3:31:774:1464#0/1  
VHQ]Y\_ba]a^U`aaX][aaRUZWRUSU^`aa]YP\_Z^^]  
@HWI-EAS443:3:31:983:103#0/1  
GGATATGATGCCGTTGCAACTACACATTCCCTGGATTCCCA  
+HWI-EAS443:3:31:983:103#0/1  
aaaa^0[a\_a`[[a¥VV]¥`^\_\_W\_\_\_^\_]\_WOW[VWSS  
@HWI-EAS443:3:32:750:43#0/1  
ATAAATTCCAGCGCAAATGCCATAAGCACCACATTCCCT  
+HWI-EAS443:3:32:750:43#0/1  
a\_aa`\_\_`\_\_`\_\_`\_\_`^`^`Z]]^Z^^\_Z^^^X]Z^ZZZ  
@HWI-EAS443:3:33:461:541#0/1  
GCGGGATGGGCTCCAATCATCCGACGATTTTGCTCTCATA  
+HWI-EAS443:3:33:461:541#0/1  
Wa` `b\_X\_b]b]`bb\_a\_baabaa]b\_baab^PX\_`a`aa  
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CATGCTTTTGGCTGGACCATGGGCTGGCATTACCACAGAA  
+HWI-EAS443:3:34:1784:1511#0/1  
M`bb\_aabbabbabb[a]\_UZ`\_U\_`]M\_\_b`G`]S\_^FT  
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ATAACAATGACCTTGACCTGCAACGCCAGATGGCGC

+HWI-EAS443:3:34:816:1217#0/1  
aa\_S\$]HVa`aaa[\_ZZZ]¥Z\_aa`\_[L^a\_YWVPS^WGY  
@HWI-EAS443:3:35:1189:1974#0/1  
CATCCACTTTCCCTTTTCTGAGTATTGGTGTGTTCTGTTT  
+HWI-EAS443:3:35:1189:1974#0/1  
``¥W¥^[]\_V`^`aa`\_]YQR]`\_NMU^\_W¥Z[^XYW  
@HWI-EAS443:3:35:1481:1709#0/1  
AAAAATTCCAGCGCAAATGCCATAAGCACCACATTCCAT  
+HWI-EAS443:3:35:1481:1709#0/1  
\_^ab`¥QYa^a]\_N`Yaaa]a¥WTJZO\_Z`[Ub^R¥aQV  
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+HWI-EAS443:3:35:587:970#0/1  
a]^Rbaab`aZaaa`aY\_a][a\_\_\_Z\_[\_a\_U¥ZVY^W  
@HWI-EAS443:3:36:663:586#0/1  
GGAATATTTGAGAATTCATGCCTTGAAACAATGGAAGTCG  
+HWI-EAS443:3:36:663:586#0/1  
aaY^`^`````\_aa]`\_aa^\_a`\_\_\_¥^\_aRQ]ZV^¥VX¥  
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+HWI-EAS443:3:38:237:1990#0/1  
^Y`a`\_NUZ¥]Wb[aWbZZWq\_] []a]aYSXLZaY¥RFN  
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+HWI-EAS443:3:38:246:1863#0/1  
^W^¥a\_b[^X`X^[\_aZ]\_\_\_[¥\_Q`¥¥^GTUaZW[Q¥T  
@HWI-EAS443:3:39:1319:678#0/1  
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+HWI-EAS443:3:39:1319:678#0/1  
]aa\_Z^bV`]aZZ]\_aaa\_\_a`a`\_\_WXaZ^aV`]\_  
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GCGTTTCAAGGCATGAATTCTCAAATATTCCTGGGTGGGA  
+HWI-EAS443:3:39:1362:1491#0/1  
a\_b¥¥ab`\_a]W^X]SU[^\_]\_OW^aZ`Z`SYZN\_U^[[X  
@HWI-EAS443:3:39:1441:551#0/1  
GGGGGCTATCGCAACACCTGGGATGCAGATTAGAGGTTTC  
+HWI-EAS443:3:39:1441:551#0/1  
aaa`aabb`\_a\_a^`a¥`aaa]\_\_Y\_\_`\_W\_U`\_[]`V  
@HWI-EAS443:3:39:490:772#0/1  
GGGTTCTGTTTACTGTGTCCATGGTGTATCCTGTTCTGT  
+HWI-EAS443:3:39:490:772#0/1  
aaa^abaa¥aaaaaaY]^\_a^`a^Qa¥`aa\_\_`\_\_\_^`\_¥  
@HWI-EAS443:3:39:788:999#0/1  
GGGTAAATGAATCAGCTGACATGAGTATTGGAGTAACAGT  
+HWI-EAS443:3:39:788:999#0/1  
`ba]ab¥b^`aa^`a\_a`^`\_¥¥W\_a`\_\_W`[\_`a`\_X

@HWI-EAS443:3:43:394:1848#0/1  
TACACATATAGGTGCCATAGGGGAGACACACAAATTCAAA  
+HWI-EAS443:3:43:394:1848#0/1  
aba^babb`b[]Ia\_aaaa`¥P]aaaaaab`bba]Uaa`U  
@HWI-EAS443:3:43:477:1329#0/1  
AGCCGGTCTCCTATATGAACTGCTAGGGAAAAATTTCTCG  
+HWI-EAS443:3:43:477:1329#0/1  
`¥\_\_^`b`a\_aa`^a`]`^XZaaaa`\_a`\_`\_Y  
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+HWI-EAS443:3:44:902:1547#0/1  
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+HWI-EAS443:3:46:1457:714#0/1  
a\_abaa]b¥aa`aa`\_a`\_]`a`^`a`¥`X``aa`^`Y^  
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TACACATATAGGTGCCATAGGGGAGACACACAAATTCAAA  
+HWI-EAS443:3:46:1486:1238#0/1  
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+HWI-EAS443:3:46:965:110#0/1  
a`aaaabbaab]b]aaa\_aaaa\_ba^`\_a\_]\_aa`\_`\_  
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+HWI-EAS443:3:47:337:782#0/1  
aba\_¥aa`^`a`Ub``aaWa\_\_a\_a]Z\_W`\_`\_`\_`\_`a^  
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+HWI-EAS443:3:49:1087:1564#0/1  
aa]]WKY^\_VabJ]]Tabbb\_a`\_aU[]aaaa`¥[\_`YF  
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+HWI-EAS443:3:4:719:1206#0/1  
ab`b`bbbab`bYb]\_`baaaaa`aaa\_a¥a`^a``aaa  
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+HWI-EAS443:3:50:1120:1255#0/1  
\_MXY[P^[\_RI`¥NWR\_]\_Z]\_YZ^¥]LSZP^NTYTZYS  
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+HWI-EAS443:3:50:1595:554#0/1  
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+HWI-EAS443:3:50:573:190#0/1  
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+HWI-EAS443:3:51:194:417#0/1  
\_\_a\_]a]]¥^`PYVJ\_^`XW]]G\_]HRXZYBBBBBBBB  
@HWI-EAS443:3:52:544:72#0/1  
GGCGGATCAAGAAAGAAGAGTTCTCTGAGATCATGAAGAT  
+HWI-EAS443:3:52:544:72#0/1  
aaaba]^\_``\_\_La`\_a^`V\_]\_Xa^^\_[^X]^\_`^`]^`^`  
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TGCTTTTCTAAAAATCCAGCGCAAATGCCATAAGCAC  
+HWI-EAS443:3:52:855:842#0/1  
`aa\_aab]¥aaa^Z^``\_a¥b\_b\_a^aa]\_\_\_a```a\_a\_  
@HWI-EAS443:3:54:633:37#0/1  
GTTTCCCCTAACTTGCAGGTCCTGTAGAATCTGTCCACT  
+HWI-EAS443:3:54:633:37#0/1  
a\_aa``aa^aa`\_a\_a`\_``\_]\_X\_a^`a\_^\_`\_`ZWU[Z^`  
@HWI-EAS443:3:55:599:408#0/1  
TGTGGCTAATTTTAGCATGGAGCTACCCAGCTTTGGAGGG  
+HWI-EAS443:3:55:599:408#0/1  
abOWabb[a`\_]¥a`a``Z]]R^\_¥¥P`XU^[^`U^ZY[F[  
@HWI-EAS443:3:55:74:779#0/1  
GGGGTGTGTTCTGTTTACTGTGTCCATGGTGTATCCTGTT  
+HWI-EAS443:3:55:74:779#0/1  
a]T]MYQ^VV¥¥`X\_V]¥[¥[[XZRV[]]QX¥SMQ[PPPVR  
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+HWI-EAS443:3:56:1609:589#0/1  
]]\_Z^b]ab`\_baaa[¥a]¥[PVaaT]a`\_aaba`]VR\_]`  
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+HWI-EAS443:3:57:119:1098#0/1  
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+HWI-EAS443:3:59:1490:700#0/1  
abaaabbbabaa^aaaaa\_`aaaabaa`aba\_aa`ZSaa\_  
@HWI-EAS443:3:59:317:956#0/1  
ATAAGAGCACTGACATTAATACGATGACCAAAGATGCCT  
+HWI-EAS443:3:59:317:956#0/1  
abaa`baabaabaaabaaaaa``\_`^\_aaaZ^\_V\_  
@HWI-EAS443:3:5:92:219#0/1  
GCTCTGTTTACTGTGTCCATGGTGTATCCTGTTCTCCTGTT  
+HWI-EAS443:3:5:92:219#0/1  
YHX]^\_```^aa\_a`[U^¥baWW]``Y`\_aR^`]]`\_]B  
@HWI-EAS443:3:61:39:1439#0/1  
TGGGTATGCACAAACAGACTGTGTTCTAGAGGCTATGGGG  
+HWI-EAS443:3:61:39:1439#0/1  
\_]ZLZZU\_b\_``X\_\_a\_\_[\_L¥VV^]]BBBBBBBBBBBB  
@HWI-EAS443:3:62:654:378#0/1  
CGGGGTGCCATGCTCAGGATGTTTCTGAACCACTCGGGTT  
+HWI-EAS443:3:62:654:378#0/1  
`^`a\_]baa\_aa`ab`ab`ab`ababbbaa```a\_[TX^]^`

@HWI-EAS443:3:63:1127:972#0/1  
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aa¥PR\_b`¥aab`\_bbbb\_T\_]\_\_^X^\_XVa`X0[a]]a  
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+HWI-EAS443:3:63:1330:370#0/1  
abaa\_babaaaa^b`\_aaabaaaaaaaaa^a^aa\_aaa\_a\_  
@HWI-EAS443:3:63:1396:293#0/1  
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+HWI-EAS443:3:63:1396:293#0/1  
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@HWI-EAS443:3:64:1211:757#0/1  
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+HWI-EAS443:3:64:1211:757#0/1  
\_aaVbbbbbb¥bX]babaZ¥ab¥baaa]a`ba¥b]^\_`X  
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ab`V`baaaaa]baaa`\_aaaa[a\_a`a\_a`^\_^]\_`  
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+HWI-EAS443:3:65:1568:102#0/1  
]SLTQXS\_T^^\_¥]aa¥Q[YZJ¥[[WO]\_b[`ZXBBBBBB  
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+HWI-EAS443:3:65:766:1765#0/1  
a\_`a```aaaa`a\_a^\_a\_\_\_a¥^`R]^`^PU\_]`^VZUDH  
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CAACATTTGCCAGTTTGGCCTTCTTTTCATTGCCCCCTCC  
+HWI-EAS443:3:66:260:564#0/1  
\_`^W¥ZZ^Z`a\_`b]^`aZX^abZL\_aaXH]\_\_\_G\_VaVHM  
@HWI-EAS443:3:67:187:381#0/1  
ACGGTCTCCATCTGATACTAATAGCCCTACCTTTGATTG  
+HWI-EAS443:3:67:187:381#0/1  
aabaRaaYbaa`a\_a`]^`\_\_a\_`[[[\_`\_V\_\_\_`\_^\_Y^\_  
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TTTGAATTTGTGTGTCTCCCCTATGGCACCTATATGTGTA  
+HWI-EAS443:3:67:676:1137#0/1  
aba`Y\_baX][XI`]aXa`Z[\_YZ\_]aStA^TX[VWQLO]  
@HWI-EAS443:3:68:1042:664#0/1  
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+HWI-EAS443:3:68:1042:664#0/1  
`bbbabaaababaaa`aab`a\_aaaaaa[`a`a`aa`YD^  
@HWI-EAS443:3:68:1276:991#0/1  
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+HWI-EAS443:3:68:1276:991#0/1  
¥XONWbaUY^ZRX¥\_abb^aa\_b`WPJ`\_aS\_aL`a¥aaa  
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ATTCCCAGTAGGGGCAATGAAAAGAAGGCCAAACTGGCA

+HWI-EAS443:3:68:663:147#0/1  
aa`aaaaa]\_`aa^a^[\_```\V\_[[^\_WW]^]YW\_`^]^  
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+HWI-EAS443:3:69:209:81#0/1  
^0\_]b[aaaaaa`[\_aa¥\_a`\_^]W^¥\_`LJYUW[^^¥S  
@HWI-EAS443:3:69:749:2046#0/1  
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+HWI-EAS443:3:69:749:2046#0/1  
DMZXXXVVYWXRXWUZXVZRVUWXXZZYZZZZXZXTW  
@HWI-EAS443:3:6:81:691#0/1  
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+HWI-EAS443:3:6:81:691#0/1  
^^^GN¥aX¥^`VU¥a¥]\_\_Z]Q[aa¥][^a\_Y^`^`aY]  
@HWI-EAS443:3:70:1476:237#0/1  
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+HWI-EAS443:3:70:1476:237#0/1  
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@HWI-EAS443:3:70:286:595#0/1  
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+HWI-EAS443:3:70:286:595#0/1  
a\_aa\_a`S]WLY¥\_\_`\_]YZ\_\_ZDUV\_\_RX^]\_ZLZY^]  
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aa`a`baba`a`Xaa^aa`aaaa`a`aaa\_aaa`a]a`^  
@HWI-EAS443:3:71:792:1405#0/1  
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+HWI-EAS443:3:71:792:1405#0/1  
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@HWI-EAS443:3:72:1110:24#0/1  
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+HWI-EAS443:3:72:1110:24#0/1  
a\_M\_]`^\_b`\_a^QY]\_a`]abaa\_aTM[¥a\_aaXa`V]^\_  
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aa\_a`abbaba¥b`Xaa^aaaa]`\_^aW``\_]a\_¥a\_¥  
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AATGAACCAAGTGGGTATGCACAAACAGACTGTGTTCTTG  
+HWI-EAS443:3:72:974:749#0/1  
¥^U¥TNQZX\_a`a]THWLZ]VMOWN\_RPWaY]¥¥]F`IO  
@HWI-EAS443:3:73:172:1971#0/1  
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+HWI-EAS443:3:73:172:1971#0/1  
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@HWI-EAS443:3:74:1354:996#0/1  
GCTCTGTTTACTGTGTCCATGGTGTATCCTGTTCTGTTT  
+HWI-EAS443:3:74:1354:996#0/1  
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@HWI-EAS443:3:74:724:1513#0/1  
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+HWI-EAS443:3:74:724:1513#0/1  
abaaaaa`abbaa`\_abaaba`a\_aaaa^`Waaa\_Ga  
@HWI-EAS443:3:75:349:1623#0/1  
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+HWI-EAS443:3:75:349:1623#0/1  
a`]][[[a[\_`^0`VXbaba¥a[Qaa`V`aaa`a¥aaUXY  
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GGGTGGGTATGCACAAACAGACTGTGTTCTAGAGGCTATG  
+HWI-EAS443:3:77:906:1025#0/1  
abaYaab¥`b`^aaabaaa\_aaa`a\_`\_\_a\_`\_\_`^`^BB  
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CAATTGAAGAGCCATCTGGGCCGTTGCAGGTCCAAGGTAA  
+HWI-EAS443:3:78:1192:1506#0/1  
`)`¥^a^aY`M`a^`S`XL[S^Y\_^\_[SZ]T[YUH[  
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CGTCCATCTGATACTAATAGCCCTACCTTTGATTGGGTTT  
+HWI-EAS443:3:78:697:809#0/1  
aa]aaaaaa^`a\_`Z^aa\_`\_^[[^^`aaU^^Z`^YX^  
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+HWI-EAS443:3:78:774:661#0/1  
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+HWI-EAS443:3:79:213:1169#0/1  
\_`abbbb`bba`bbUaV]\_baaababbbbaabbb`S^]GW^  
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+HWI-EAS443:3:7:1033:769#0/1  
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+HWI-EAS443:3:7:1313:1282#0/1  
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GNTCTGTTTACTGTGTCCATGGTGTATCCTGTTCTGTTT  
+HWI-EAS443:3:81:460:682#0/1  
¥D¥`aaaaa`\_aa\_a`aaaa`W\_^`\_`^`\_^]\_\_`¥^^  
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+HWI-EAS443:3:83:178:849#0/1  
aabbba^aa`a\_aa\_UX\_\_N`\_^]^^V^`V^\_\_¥^\_\_`¥  
@HWI-EAS443:3:84:209:224#0/1  
GGGTGGGTTGTTATCTCTATTTCTCTTTGTTTCATTGATT  
+HWI-EAS443:3:84:209:224#0/1  
aab[abbYab^¥H\_\_a`a\_``\_]\_`aa\_\_^a\_^a^^^^^\_[  
@HWI-EAS443:3:85:163:1366#0/1  
GAATGTGTAGTTGCAACGGCATCATATTCCATGCTTTTCT  
+HWI-EAS443:3:85:163:1366#0/1  
aSa\_a`a^a`]aaa`^``\_aa\_`a`\_````]\_\_\_\_]\_\_\_\_]\_\_  
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CTAATAAGAGCACTGACATTAAATACGATGACCAAAGAGG  
+HWI-EAS443:3:86:270:1709#0/1  
aaaba`\_QSV\_`a`M^aa`aa¥bba\_a\_aYa^a\_\_`\_YZ[  
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CAGGTGGGATGGGCTCCAATCATCCGACGATTTTGCTCTC  
+HWI-EAS443:3:86:396:752#0/1  
abab]aba```a`a`a]aaaa```aa`a``aab`a¥`\_  
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+HWI-EAS443:3:86:954:1766#0/1  
V¥b^V`SSW^^a\_X[\_[Y^T`¥¥a¥a^[\_S\_¥Xbbbb\_UH\_  
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\_]`Ta]^]aa`a0QV¥J]ba\_\_a\_aaYa]aa^baaaab[\_  
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+HWI-EAS443:3:90:952:1217#0/1  
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\_¥VQZ```\_\_V\_[ZW\_^]Xa\_Y¥¥[¥Z]^]]][[`^^Y  
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+HWI-EAS443:3:92:1337:1673#0/1  
ab`aab`baaa\_^a\_^aa^a\_a\_`a`X`¥a]`a\_a`\_\_a\_  
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+HWI-EAS443:3:92:139:1095#0/1  
a\_\_F\_`\_U[aa^^aa]`WZSOYQZVZY[[]`TV¥ZFLVZT  
@HWI-EAS443:3:92:1658:178#0/1  
CACGGATTGATGCCAGGGTCGACTTCGAGTCTGGACGGAT  
+HWI-EAS443:3:92:1658:178#0/1  
¥FRbZY\_bba`a\_X¥^S\_HD¥SXaa\_YXX]F]]]Q¥`^NK

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@HWI-EAS443:3:93:1138:1939#0/1  
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+HWI-EAS443:3:93:1138:1939#0/1  
aH¥W]\_]XUWPUJPV¥\_[\_[WMV^\_Z[W]S]QG]MXZUYY  
@HWI-EAS443:3:93:288:885#0/1  
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+HWI-EAS443:3:93:288:885#0/1  
^`X`\_XZ¥\_a`a^¥]X\_]\_a`a\_Y`VFW^`LU\_\_[Z^BBB  
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+HWI-EAS443:3:94:1246:457#0/1  
a\_Y`aY`UY¥\_aZZ\_LZTa]Q]^¥IXFXROJ[aZQYFRG]  
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+HWI-EAS443:3:94:862:852#0/1  
aHU`a`\_]\_aaa¥GSQ¥YV[UY[aVT`WU^ZX^\_\_XVT^VZ  
@HWI-EAS443:3:95:31:1410#0/1  
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+HWI-EAS443:3:95:31:1410#0/1  
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\_TZ^YO[a[^[\_UNFSZ\_]VQYa\_`[LJF^ULNZQNUZBB  
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aa`¥]^¥¥]aaV^b¥aab[\_a^\_] ^YM^¥b` `b\_aa]VIU  
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GAGCCTTCTTTTCATTGCCCCCTACTGGGAGCCCAGACTG  
+HWI-EAS443:3:97:1073:330#0/1  
aa¥^a`Pab` `X`\_X\_WSN^¥`¥¥[¥T¥¥^WUUXZXWW^  
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+HWI-EAS443:3:97:1368:993#0/1  
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a\_YPG¥` [X¥S\_\_ [VS[[`^PY[ZU]\_ZUQQ]\_U[^VUUN  
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+HWI-EAS443:3:98:822:1832#0/1  
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+HWI-EAS443:3:99:916:1199#0/1  
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+HWI-EAS443:3:100:1753:679#0/1  
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+HWI-EAS443:3:100:585:1610#0/1  
a^bYa`b^ba`0\_aYab\_a`[[\_[[NS`\_\_[\_a`\_^\_^\_  
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+HWI-EAS443:3:10:1423:1011#0/1  
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@HWI-EAS443:3:10:429:498#0/1  
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+HWI-EAS443:3:10:429:498#0/1  
`\_YRYZ]T¥][TFR^`\_YR\_S]¥NP`^\_[SJOYZYFYOQF  
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+HWI-EAS443:3:10:628:980#0/1  
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+HWI-EAS443:3:10:817:1452#0/1  
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+HWI-EAS443:3:11:101:482#0/1  
a`aaaX\_aaaa`aaaa¥^a[\_\_\_\_`\_a`U\_\_]\_aa\_S`U\_  
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+HWI-EAS443:3:11:756:18#0/1  
\_abbaaaaababb^a^aaabaa^aa\_aa\_a`\_\_`\_`a^\_\_  
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+HWI-EAS443:3:11:925:1456#0/1  
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abbababaaababaaaaabaa`a]\_^`a\_[M]`a`\_\_`^  
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CTGCTGTGGTAATGCCAGCCCATGGTCCAGCCAAAAGCAT  
+HWI-EAS443:3:12:1442:1584#0/1  
\_bb^bbab[L[a`^K`aU^¥`[[`YZOV`R^a`a`\_\_aV  
@HWI-EAS443:3:12:1563:687#0/1  
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+HWI-EAS443:3:12:1563:687#0/1  
aaa\_a¥a`^a`\_\_`\_Z`\_\_`\_\_[^\_VU\_¥¥W¥^^\_]UU¥¥U  
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GACTTCCATTGTTTCAAGGCATGAATTCTCAAATATTCCT  
+HWI-EAS443:3:12:300:216#0/1  
a\_aab`\_abbbaa`a[\_aaaa`\_\_`\_a^a\_¥`¥a\_a[\_]\_`  
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+HWI-EAS443:3:13:1019:1189#0/1  
Z`Xbb`Ya`Z`¥KV`^aQ¥aaS`\_aa`a¥VX\_[¥\_a\_^  
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+HWI-EAS443:3:13:1219:297#0/1  
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@HWI-EAS443:3:13:1230:1652#0/1  
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+HWI-EAS443:3:13:1230:1652#0/1  
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+HWI-EAS443:3:13:1397:1784#0/1  
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+HWI-EAS443:3:13:595:734#0/1  
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+HWI-EAS443:3:14:289:256#0/1  
a`[aXaaaWaaaa`\_\_`\_\_`\_a]`\_\_`aZ\_¥]]]\_Z]]^BBBB  
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+HWI-EAS443:3:15:1335:250#0/1  
L\_¥]\_`aabbba`^^a\_a`¥`ba`\_Za^abaaaa\_a[  
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+HWI-EAS443:3:15:1529:931#0/1  
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+HWI-EAS443:3:15:1733:180#0/1  
T\_`aaaT^`aaI`a\_\_\_Qba¥X`baaa`b`[a]aa`Z^ZP  
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+HWI-EAS443:3:15:1756:711#0/1  
^ZZ`¥XZ^\_Q¥^YO\_`SGOWb¥RX^b`]EY¥]YJQ`Z\_¥Y  
@HWI-EAS443:3:16:1793:1007#0/1  
NTTCTGTTTACTGTGTCCATGGTGTATCCTGTTCCCTGTTC  
+HWI-EAS443:3:16:1793:1007#0/1  
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+HWI-EAS443:3:16:255:68#0/1  
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+HWI-EAS443:3:17:1049:1824#0/1  
aaW\_aaaaX^a`\_\_\_X\_^`a\_\_^^]]\_^\_\_X]W]X\_XZV]  
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+HWI-EAS443:3:17:1605:173#0/1  
G[\_¥W\_¥`bb¥WZ¥bba\_0\_[V\_[VZ`bYH[\_][WQWO  
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+HWI-EAS443:3:17:1792:609#0/1  
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+HWI-EAS443:3:17:1793:810#0/1  
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aba[]`aabbaba`\_a`aa\_YaY[Q^^a^[\_^\_a]Y[^  
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+HWI-EAS443:3:18:283:1048#0/1  
^\_a[\_^`\_X`\_a\_a^`ab[P]\_\_a^W\_HY]`XX`S]W¥\_  
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GGGTGCTTATGGCATTGCGCTGGAATTTTTAGGAAAAG  
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ab]¥aa`[\_a`TPDX]XR]PXX¥X`\_a¥`\_a^`a^]\_^`  
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CATTCATATGAGAGCAAAATCGTCGGATGATTGGAGCCG  
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a`QP]```[\_`¥Z^aV`V0]WTPT\_[[Y\_Z]^^BBBBBBB  
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+HWI-EAS443:3:1:510:926#0/1  
aa\_Wba^^aba`Pb\_\_\_\_`aa\_aa\_aXQ\_\_^¥`a\_\_\_\_]BB  
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GGTGGTCTTATGGCATTGCGCTGGAATTTTTAGGAAA  
+HWI-EAS443:3:1:696:726#0/1  
aaPZVTa\_a\_a`a]V`\_a`\_T\_X]`[^`]\_^a]aBBB  
@HWI-EAS443:3:20:197:784#0/1  
AAACAAAGACTGAATAAGAGAGGCTATCTAATAAGAGCAA  
+HWI-EAS443:3:20:197:784#0/1  
a\_baa]\_a`aa^a`^a\_a^¥a`a[GLG[YS]ZGRUGWH  
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+HWI-EAS443:3:20:298:461#0/1  
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@HWI-EAS443:3:20:72:1629#0/1  
AAAAATCCAGCGCAAATGCCATAAGCACCATTCN  
+HWI-EAS443:3:20:72:1629#0/1  
a[]`V]¥`a`\_a¥a\_\_\_\_\_[^ZT\_```^a¥\_\_ZW]]MD  
@HWI-EAS443:3:21:1121:1466#0/1  
ACCCAGTGATTGTGAAAGAAATCTCTGTGTCTTGTGAAT  
+HWI-EAS443:3:21:1121:1466#0/1  
\_ab]¥W`RaaaabYa]a\_[¥K]aT`[¥X¥^¥`\_`ZVX[WSW  
@HWI-EAS443:3:21:1354:605#0/1  
GTGGTCTCCATCTGATACTAATAGCCCTACCTTTGATTG  
+HWI-EAS443:3:21:1354:605#0/1  
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@HWI-EAS443:3:21:1651:279#0/1  
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+HWI-EAS443:3:21:1651:279#0/1  
a`a^]]aab\_^]¥]^^^¥UUYOZSWYBBBBBBBBBBBBB  
@HWI-EAS443:3:21:1793:692#0/1  
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+HWI-EAS443:3:21:1793:692#0/1  
DM[[Y[YXPUYZVWLWYXPXW[[XTSZY[[WWW[SVUZ[  
@HWI-EAS443:3:21:690:1858#0/1  
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+HWI-EAS443:3:21:690:1858#0/1  
a^¥baa\_S]U]b`WPV\_\_`\_]U[N^`\_]W`^]X^Z¥]Z^V  
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+HWI-EAS443:3:21:817:1692#0/1  
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+HWI-EAS443:3:21:962:792#0/1  
`\_]QT\_[a]\_aaa]\_WaWOa\_a`ZPX[RYXUQY^\_YQ[^\_  
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+HWI-EAS443:3:22:1792:1369#0/1  
DMXMWYXXWVWVYVYTYUXXX[ZXVXXWSPWXXXRFF  
@HWI-EAS443:3:22:326:604#0/1  
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+HWI-EAS443:3:22:326:604#0/1  
ab\_aaa`baabaaaaa\_Y¥]]aa]\_a``aa`aa`\_a]a  
@HWI-EAS443:3:22:409:826#0/1  
CGTGGTGCTTATGGCATTGCGCTGGAATTTTAGGAAA  
+HWI-EAS443:3:22:409:826#0/1  
ab`\_a]aaaa\_aa]\_`aa`aaaa\_aaaa`````\_`a^``  
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GAATCTGTCCACTCCTGCTTGTATTCCCTCATGGTTTGGG  
+HWI-EAS443:3:22:492:619#0/1  
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+HWI-EAS443:3:23:1493:419#0/1  
aba\_^``abaaaaba]¥WWaa\_aZ\_\_`\_W¥\_]\_W``\_ZX  
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+HWI-EAS443:3:23:264:278#0/1  
I\_\_RRV[Xaaaa`Xa\_Za``b[¥S\_\_a¥`R¥U0]¥¥a`Z  
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+HWI-EAS443:3:23:302:633#0/1  
abaaaaabbaaaaaaaa`aaa\_aaa`\_aaa]`\_aa^`a¥]  
@HWI-EAS443:3:23:784:262#0/1  
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+HWI-EAS443:3:23:784:262#0/1  
GZ` [bbbbbbbbb\_bbbbaa`bb`bbbbbbabbb[bbbaa  
@HWI-EAS443:3:24:637:178#0/1  
GGGGCTCCAATCATCCGACGATTTTGCTCTCATAGTGAAT  
+HWI-EAS443:3:24:637:178#0/1  
a^aa`]a^Q^Z^]\_V\_a]\_\_Z\_]^[RTV[¥^]W¥¥TUT^Y



@HWI-EAS443:3:24:935:1799#0/1  
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+HWI-EAS443:3:24:935:1799#0/1  
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+HWI-EAS443:3:25:1110:1188#0/1  
H^UY`\_\_a`¥`¥W¥`baabbbbaaZ]a`bb¥X\_bYbbR`  
@HWI-EAS443:3:25:1413:1132#0/1  
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+HWI-EAS443:3:25:1413:1132#0/1  
G]bbbabbbbbbabbab\_\_bbabababbbbaabab]D  
@HWI-EAS443:3:25:1510:888#0/1  
ACCCCTTTGGCTTGTGTTGAGAATAGAACGATTCCTCTTG  
+HWI-EAS443:3:25:1510:888#0/1  
aaaaa`aaabaaaa[a\_a¥W`\_]`\_\_`]U¥]]ZW^V^^\_  
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AGTCCCCAGTGATTGTGAAAGAAATCTCTGTGTCTTGTGA  
+HWI-EAS443:3:25:1520:1118#0/1  
aba^aabb`b`bbb`baaaa`a^a]a\_aa`a^^ab^^` [  
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+HWI-EAS443:3:25:338:29#0/1  
aaa`ba`aa`aaaZaaaa\_a`\_\_`\_`a]^\_\_\_\_`^\_\_^  
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+HWI-EAS443:3:25:493:630#0/1  
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@HWI-EAS443:3:26:1118:377#0/1  
CGTTCAACAACAAGGGTAGATAAACTAACTCAAGGTCGC  
+HWI-EAS443:3:26:1118:377#0/1  
`babX^a`aab``aab\_aa^aaa\_aaa^][aaaa]W`\_  
@HWI-EAS443:3:26:1470:612#0/1  
CGTGGCTAATTTTAGCATGGAGCTACCCAGCTTTGGAGTG  
+HWI-EAS443:3:26:1470:612#0/1  
aba`¥bbba`bbaaaa`aba]`P`a[^`\_`a\_a`^^Ya]]  
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AGGAAATAGAGATAACAACCCACTTTCAAAGAAAAAGGAA  
+HWI-EAS443:3:26:1695:297#0/1  
Z\_aVaaaaa`]^V\_aa`R¥^`aaaaUS]\_a\_\_aZY]`a[  
@HWI-EAS443:3:26:265:1741#0/1  
GGTGTCTGGAGTAAATGAATCAGCTGACATGAGTATTGGA  
+HWI-EAS443:3:26:265:1741#0/1  
O]a`K`ba\_aa`\_`bbbab\_ab¥babbbbbb`aa\_bba`a`  
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+HWI-EAS443:3:27:1188:643#0/1  
aaaba`\_`abaaa\_baa\_ba`aa`a`a`WN`abaa¥[]a^  
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+HWI-EAS443:3:27:1243:1658#0/1  
ab`a`bbbbbbbabaa^babbbbaababbaba``aaaa  
@HWI-EAS443:3:27:1256:475#0/1  
TCTCCATCTGATACTAATAGCCCTACCTTTGATTGGGTTT  
+HWI-EAS443:3:27:1256:475#0/1  
aaabaaa`aba`a`aaaaa]YZ`a]``\_a¥Va`¥a\_] ]^  
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CACAGCATCACTGAGTCCTGGGATGATGATGGGCATGTTT  
+HWI-EAS443:3:27:1602:1717#0/1  
S]b`bbbbbababab`\_Ubbaaaab\_a\_ab^\_aabb\_a\_  
@HWI-EAS443:3:27:1699:1352#0/1  
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+HWI-EAS443:3:27:1699:1352#0/1  
a`^aabb`a`aa]^`aa`\_a`Z`\_]Za¥`[\_^^]¥]]^]  
@HWI-EAS443:3:27:528:445#0/1  
CAGGAACAGGATACACCATGGACACAGTAAACAGAACACC  
+HWI-EAS443:3:27:528:445#0/1  
a``\_bbbbbabbb`a`babbaaabab^babaa``b^baa  
@HWI-EAS443:3:28:1314:372#0/1  
GGGAGGACCAAACCTTATACAATATACGGAATCTTCACATT  
+HWI-EAS443:3:28:1314:372#0/1  
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@HWI-EAS443:3:28:1565:1384#0/1  
TGTGCATTCACTATGAGAGCAAAATCGTCGGATGATTGGA  
+HWI-EAS443:3:28:1565:1384#0/1  
Y^R^\_b\_Z¥[baaa¥^a`[\_`a¥a^¥`]Y\_a`]a\_`]V¥^  
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+HWI-EAS443:3:29:1020:1800#0/1  
a^b`\_XXYJ^^`\_\_Z`[S`P¥[ZVWP``^R^\_a¥^¥\_¥¥B  
@HWI-EAS443:3:29:285:318#0/1  
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+HWI-EAS443:3:29:285:318#0/1  
abZFabb][aa`aa`\_]V`[a^ZU¥V¥\_\_`^`^]U[^B  
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+HWI-EAS443:3:29:567:951#0/1  
a`a`[\_`a```a`aa`````aa][```X``]¥`^¥[¥¥ZX  
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+HWI-EAS443:3:29:708:726#0/1  
aa`¥aa`b`]a\_\_a]`aaaa`\_ba¥a]a`\_a\_a`a\_\_a\_  
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CGGGTGCCATGCTCAGGATGTTTCTGAACCACTCGGGTTG  
+HWI-EAS443:3:29:780:1397#0/1  
ab\_WYR\_\_I]ab`YaaWPZ`^aX]]a]TZUQZX`]\_\_SY]  
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`ba`abbaabbab\_b\_a[bb`a`^bQaa`\_a\_]\_\_¥aZZ\_

@HWI-EAS443:3:2:234:361#0/1  
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+HWI-EAS443:3:2:234:361#0/1  
`ba\_b`¥`b`b^\_]a^aaa`a``a\_Y\_\_a\_^¥^\_\_a\_LTO  
@HWI-EAS443:3:2:391:462#0/1  
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+HWI-EAS443:3:2:391:462#0/1  
aba]aaa`a\_aaa\_aa\_aa`b\_aaa``aaa``\_a\_]\_\_]a  
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+HWI-EAS443:3:31:1540:968#0/1  
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+HWI-EAS443:3:31:169:1784#0/1  
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+HWI-EAS443:3:31:718:1307#0/1  
X[`a^ba]^¥W^^W```¥V¥¥`a¥baVZSUU`a\_^YQaVF  
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+HWI-EAS443:3:32:1014:1558#0/1  
Z\_\_IU]aV¥^[Xa^[^^`¥^\_aa^PN]a\_\_VOZUUSXU¥  
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GGCCCTTCTTTTAACTTGCCTCTCTCTGCATCTTTGGTC  
+HWI-EAS443:3:32:200:674#0/1  
V\_bbbabbbb]^\_V^baYaabbbbV^Ra^[[```b^RYa  
@HWI-EAS443:3:32:702:1661#0/1  
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+HWI-EAS443:3:32:702:1661#0/1  
a^`aaa^aa[OYTL^^[`V]¥aXY^`\_`]\_\_^VU[TQ^¥[  
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CGGTGCTTATGGCATTGCGCTGGAATTTTTAGGAAAAG  
+HWI-EAS443:3:32:900:2023#0/1  
[aYHaaa`b^abbbaa`]aaa`Y`^a^¥a\_aaaa`^S¥aa  
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+HWI-EAS443:3:33:1147:278#0/1  
aa`a`ba`aaaa``^`[ZRRW\_\_a[Q]V[LGJUX¥VVYF  
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+HWI-EAS443:3:33:23:1985#0/1  
U`a\_LZ`^`a`\_[aX]\_`a]Y[]V¥\_a\_\_¥^ZO\_] [V[Y  
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[KFL¥XNW]`aSZa\_¥a`[¥YGL[]WLN]]MRSYSUTT]V  
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+HWI-EAS443:3:34:1039:1785#0/1  
^`aa¥`\_abbb`aV¥a^ba^a^`[aa``[[`V¥[¥```^I  
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+HWI-EAS443:3:34:1356:537#0/1  
aaabbbbbb`aabbbaaaaaa\_\_a`aaaa^``\_`^]X`  
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+HWI-EAS443:3:34:400:1275#0/1  
aaabbabbaa\_\_a\_Y]¥`bbaaaaabaaa`a^Pa\_aaa`\_  
@HWI-EAS443:3:34:609:1878#0/1  
GCCCTATTGTTCTTTGCGTGACCATCTTCTTGGTCATGTT  
+HWI-EAS443:3:34:609:1878#0/1  
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+HWI-EAS443:3:35:1169:1490#0/1  
`^^`\_\_]¥a^]Z]]\_ZXY[M]ZZW]N]Y¥X\_[RUS[T]VG  
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a]abaaa)`aa`\_aaaaba`\_a\_a\_]`aa``a[\_\_¥¥`V  
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CGCCTCTCTGTCATCTTTGGTCATCGTATTTAATGTCAG  
+HWI-EAS443:3:35:847:541#0/1  
``baa\_``[`Z]¥]W\_]\_\_YZ]URYZ\_PW```Y¥WFK]OS  
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+HWI-EAS443:3:36:1023:140#0/1  
abbbabaS\_aba`\_baabb`abbbbaa¥b\_¥^]`NVO¥a`  
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+HWI-EAS443:3:36:1412:1338#0/1  
aabab\_bba^a\_aaX```b`\_```aaaa`aaYZ^\_YMYZ¥  
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TGCCTCTTATTTCAGTCTTTGTTTTTCTTCCCTATTGT  
+HWI-EAS443:3:36:168:1479#0/1  
aababbbab^Z\_aaaa^aaaa\_`aaa`aa``aa]a^]MS

@HWI-EAS443:3:36:671:1561#0/1  
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[ba`bbaS¥` [ZT`] ^`baaaaZ¥Z¥aa^^JY^YXSX^]X  
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+HWI-EAS443:3:36:981:176#0/1  
`ZaU]aU^TaUaa`QNXa\_`^\_[YQ[Z\_ZP¥^U]]VU¥S  
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+HWI-EAS443:3:37:1199:899#0/1  
G[ba^`¥b]^¥`bb`bb\_b`T^`aba\_\_0[¥aYa\_T¥^b  
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+HWI-EAS443:3:37:1218:1895#0/1  
ab^a]Xa^`a[\_][X]LYa`X[aaa\_^]FT[Y`\_\_\_]W^P  
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+HWI-EAS443:3:37:729:1500#0/1  
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+HWI-EAS443:3:39:1351:699#0/1  
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+HWI-EAS443:3:39:600:1512#0/1  
[`bbba`\_]b\_`[]K\_aab\_baa\_\_`aaaa]^`a\_a\_  
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+HWI-EAS443:3:39:793:508#0/1  
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TGGGCTATCGCAACACCTGGGATGCAGATTAGAGGTTTCG  
+HWI-EAS443:3:3:1039:423#0/1  
a^abbaaa``aaa^\_W^abaa`]aU`a\_`]`a`\_\_]\_^^`  
@HWI-EAS443:3:3:1551:1966#0/1  
ACCCTATTGTTCTTTGCGTGACCATCTTCTTGGTCATGTT  
+HWI-EAS443:3:3:1551:1966#0/1  
]a\_]X^b\_] [\_Y\_a`a¥^aa^R[a^P[a^a\_\_`UOS\_`^\_  
@HWI-EAS443:3:3:1587:1194#0/1  
GAATCTGTCCACTCCTGCTTGTATTCCCTCATGGTTTGGC  
+HWI-EAS443:3:3:1587:1194#0/1  
aabbabbbabbababababbbbaabaaaa¥`bbbXb`aa\_  
@HWI-EAS443:3:3:587:1231#0/1  
GGGTCCATCAATCGGGTTGAGCTGGGGTGCACCAGTCTCT  
+HWI-EAS443:3:3:587:1231#0/1  
a]a¥babaabbaZbbb`aaaaaaYaX¥a¥a^\_aa]Qa¥a  
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NTTCGATCTAAAGACTTCTATGGTGTGGCCAATGCAGTT

+HWI-EAS443:3:3:889:2047#0/1  
DMSRPLKKVYULTVVUVXYGVVPXYVVYVNFJQVVB BBBB  
@HWI-EAS443:3:3:996:1022#0/1  
AAGATGCAGAGAGAGGCAAGTTAAAAAGAAGGGCTATCGA  
+HWI-EAS443:3:3:996:1022#0/1  
XW\_`aaZ¥^WX¥`XT\_`^V]ZY\_X]b]Z\_]VG\_aTHPG  
@HWI-EAS443:3:40:872:1187#0/1  
TTGGGTGCCATGCTCAGGATGTTTCTGAACCACTCGGGTT  
+HWI-EAS443:3:40:872:1187#0/1  
SX`b^G\_b`babaV``bababb\_ab^`\_aab`W`a`aX`  
@HWI-EAS443:3:42:1162:1783#0/1  
CAGGGGCAATGAAAAGAAGGCCAAACTGGCAAATGTTGT  
+HWI-EAS443:3:42:1162:1783#0/1  
]Z¥\_`¥Y\_bababaa`abaaabaa`aa``^``aaa\_aa`  
@HWI-EAS443:3:42:1493:327#0/1  
GCCTCCATCTGATACTAATAGCCCTACCTTTGATTGGGTT  
+HWI-EAS443:3:42:1493:327#0/1  
Z\_b¥a¥baa]Zaaaaba\_baaaa\_¥PU\_\_Y¥aa`\_`^\_QZ  
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ATTCAGTATCGAGACTCCCAAGACCGTACTTAGCATGTTA  
+HWI-EAS443:3:43:1080:549#0/1  
]Z¥a\_]babba`bba\_^\_ababa\_baa`\_]a]\_aaa\_aa  
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GGGTGGGATTCTTCAAGGAAAGCCATAGCCTCTAGAACAG  
+HWI-EAS443:3:43:1375:1827#0/1  
abaHbbaaY\_V[a]a\_b\_[^Uaa[aa\_TVZ`N[\_a\_]\_G  
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ACTCCTTTTTCTTTGAAAGTGGGTTGTTATCTCTATTCC  
+HWI-EAS443:3:43:1719:147#0/1  
¥^b`bbbba```b`baaa`Nabb\_b```^`[``a`aaaZV  
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+HWI-EAS443:3:43:353:1808#0/1  
J\_aa^abbaVUaaaa`baba^[a`[a^bVba\_PVT\_^]  
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AGCTGATTCATTTACTCCAGACACTCCAAAGCTGGGTAGG  
+HWI-EAS443:3:43:773:1880#0/1  
\_WR`WY`¥\_]`^^XTRYWP¥Y LX\_W\_]`YUN¥YZSTYG  
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TGGCCTTATTTCTCAATTTCTTCTTTGTTGATTCATTG  
+HWI-EAS443:3:44:1405:657#0/1  
`bbb^ba^aaaaaa\_Zabaa]aaaaaaa`a\_aaa\_a`¥  
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CGCACTGACATTAATACGATGACCAAAGATGCAGAGAGA  
+HWI-EAS443:3:44:156:595#0/1  
aabbabbabbbbbbbbbbaaaaaa^`a`a``baaaa`  
@HWI-EAS443:3:44:487:612#0/1  
CGGTCTCCATCTGATACTAATAGCCCTACCTTTGATTGG  
+HWI-EAS443:3:44:487:612#0/1  
aba[]Tabbbbab]abaabaaaaaaabbaZaaba\_\_]^

@HWI-EAS443:3:44:518:1188#0/1  
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+HWI-EAS443:3:44:518:1188#0/1  
abaWbbb`ababaaaaaa\_aa^aaa\_ba`a^aaa\_\_`a`  
@HWI-EAS443:3:44:90:704#0/1  
CCCCCTTTGGCTTGTGTTGAGAATAGAACGATTCCTCTTG  
+HWI-EAS443:3:44:90:704#0/1  
a`ab]aba`aba[`b\_aa]\_[a`aa`^YaZV¥[U[^\_^\_  
@HWI-EAS443:3:45:1527:318#0/1  
GGCCCTTCTTTTTAACTTGCCTCTCTGCATCTTTGGTC  
+HWI-EAS443:3:45:1527:318#0/1  
abaabaa\_abbbaaabba\_aaabaa\_ab``a`aaaba^\_  
@HWI-EAS443:3:46:1353:1001#0/1  
ATTCAGTATCGAGACTCCCAAGACCGTACTTAGCATGTTA  
+HWI-EAS443:3:46:1353:1001#0/1  
abbaababaa``a`Vaa\_`]`\_`a]aY`^\_]`^[\_`\_]`\_  
@HWI-EAS443:3:46:1383:1950#0/1  
TGCCCTTCTTTTTAACTTGCCTCTCTGCATCTTTGGTC  
+HWI-EAS443:3:46:1383:1950#0/1  
I\_XZZa¥^^Z^`¥a`^bbb¥]V`a\_U\_a``Vaab`Zab\_]`  
@HWI-EAS443:3:46:628:1790#0/1  
GACTTCCATTGTTTCAAGGCATGAATTCTCAAATATTCCT  
+HWI-EAS443:3:46:628:1790#0/1  
a`aaa¥]aa\_`\_^`Ya\_a]`\_\_\_\_`L^a]aZ\_\_a``a^^I\_  
@HWI-EAS443:3:46:685:1661#0/1  
ACCAGGTGTTGCGATAGCCCTTCTTTTTAACTTGCCTCTC  
+HWI-EAS443:3:46:685:1661#0/1  
a`babaU`\_ba\_a¥^aa\_\_aY\_\_\_a\_aaZ\_RaaY^¥¥]\_Y  
@HWI-EAS443:3:47:1688:574#0/1  
CAGCTCTCTTATTAGTCTTTGTTTTTCTCCCTATTG  
+HWI-EAS443:3:47:1688:574#0/1  
`bbaabbbbbbabbbabababbbbabbbbaaaa\_aabb^  
@HWI-EAS443:3:47:216:535#0/1  
TTGGGTGCCATGCTCAGGATGTTTCTGAACCACTCGGGTT  
+HWI-EAS443:3:47:216:535#0/1  
a]VVWLWO¥^^`XYWU¥\_Q^\_X[]^`\_`XYZYZXZVVVWYZ  
@HWI-EAS443:3:47:490:675#0/1  
GTTTCATATAGGAGACCGTTGGAATTTCTAGCATGGTGGT  
+HWI-EAS443:3:47:490:675#0/1  
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+HWI-EAS443:3:47:718:659#0/1  
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+HWI-EAS443:3:48:1113:720#0/1  
aa\_aaaa^aba\_aa[¥Ya\_^]Ya`\_^\_\_\_a¥\_^^\_¥\_Q`a  
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GCCCAGGACTCAGTGATGCTGTGCCATCTATTAGAAGAGG

+HWI-EAS443:3:48:414:1861#0/1  
a`^U¥TN\_^)`bV[\_[aa¥UVPSYIYVR`\_\_[[WNTNXL[  
@HWI-EAS443:3:48:708:313#0/1  
AGGGCTCCAATCATCCGACGATTTTGCTCTCATAGTGAAT  
+HWI-EAS443:3:48:708:313#0/1  
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CGGTGCATTCACTATGAGAGCAAATCGTCGGATGATTGG  
+HWI-EAS443:3:49:1221:1477#0/1  
abbabbbbbbbbbbbabbabbabb\_a`abaaaaaaaa  
@HWI-EAS443:3:4:804:544#0/1  
GCGACCTTGAGTTAGTTTATCTACCCTTGTGTTGAACG  
+HWI-EAS443:3:4:804:544#0/1  
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GTGTCTAGGGCCCGATTGATGCCAGGGTCGACTTCGAGN  
+HWI-EAS443:3:50:1704:1489#0/1  
]OZU]R^¥UZU]^[]JX`RVQ¥VXU¥`ZPXXTZVOEZKVB  
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+HWI-EAS443:3:50:397:388#0/1  
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TGGGCTATTAGTATCAGATGGAGGACCAAATTATACAAT  
+HWI-EAS443:3:51:1256:804#0/1  
aa\_a^bb`aab`aa``baa``aa¥Z¥\_a`\_\_aa\_a`Z`aa  
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+HWI-EAS443:3:51:403:58#0/1  
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CACAGCATCACTGAGTCCTGGGATGATGATGGGCATGTTT  
+HWI-EAS443:3:51:819:1916#0/1  
`\_T\_]a¥[XUT^\_Yba[0\_bbbS¥\_Q^aa``¥]`¥^[PZZ  
@HWI-EAS443:3:51:994:120#0/1  
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+HWI-EAS443:3:51:994:120#0/1  
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@HWI-EAS443:3:52:117:571#0/1  
CGAAAAGCTTGAACAGTCTGGGCTCCCAGTAGGGGGCAAG  
+HWI-EAS443:3:52:117:571#0/1  
abZZ]ZS¥X¥]YO[QZQ`a^YP^[\_T¥V¥L¥aYT¥XIUVF  
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AAGCCCTTCTTTTAACTTGCCTCTCTCTGCATCTTTGGT  
+HWI-EAS443:3:52:1576:1434#0/1  
aba]\_[baabbabba\_^ba`\_\_a\_a\_b)`a\_\_b\_aba^\_^  
@HWI-EAS443:3:52:1704:642#0/1  
GTGGTCTCCATCTGATACTAATAGCCCTACCTTTGATTG  
+HWI-EAS443:3:52:1704:642#0/1  
``aa^`baaaaa¥a¥]aa\_a`aa``^\_\_``¥¥aaaZU`a]



@HWI-EAS443:3:52:1727:105#0/1  
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a`]a``^aa\_`ab\_\_\_\_`\_]\_aZ^`¥]\_WPWVZ¥Z[XQWO  
@HWI-EAS443:3:52:446:1132#0/1  
CGTCTGGGCTCCCAGTAGGGGCAATGAAAAGAAGGCCAA  
+HWI-EAS443:3:52:446:1132#0/1  
ab\_b`a`aaaba`^a^abbaab`\_aaaa`\_a`aa`\_aY\_`  
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CGCCAGGGTCTGACTTCGAGTCTGGACGGATCAAGAAAGAA  
+HWI-EAS443:3:52:509:623#0/1  
ababbaab[bbaaaaab\_^\_aaaa\_`b`\_`aa`b\_aa]^`  
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+HWI-EAS443:3:52:77:1222#0/1  
^^^abbbbb`a`]bUW]a]^abbab`a^baa^]Z`S\_  
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CGTCTCCATCTGATACTAATAGCCCTACCTTTGATTGGG  
+HWI-EAS443:3:53:238:150#0/1  
ab\_bbbbbabbabaabaa`a`ba\_aa`\_\_baba]aaa]T  
@HWI-EAS443:3:53:669:1931#0/1  
CGGGCTCCAATCATCCGACGATTTTGCTCTCATAGTGAAT  
+HWI-EAS443:3:53:669:1931#0/1  
\_`M^\_Ybb[S\_`aXN[`aI\_aa]a]^[^RZ\_aaabV`^U¥  
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TACCCGATTGATGGACCACTACCTGAGGATAATGAACCAA  
+HWI-EAS443:3:53:92:451#0/1  
`aX]ba]^a¥RZ\_USa¥X[¥VN^)`Zbaa[aaYa\_`]^a¥  
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+HWI-EAS443:3:54:1629:1939#0/1  
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CGTTCAACAAACAAGGGTAGATAAACTAACTCAAGGTCGC  
+HWI-EAS443:3:54:344:1294#0/1  
ababa`babab^baaba¥aaab^aaaaa`\_aaaa\_\_[^`^  
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+HWI-EAS443:3:55:1488:699#0/1  
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AGGCATTTTGCCTGGAATTTTGTAGAAAAGTAGAGTCGG  
+HWI-EAS443:3:55:1546:853#0/1  
[a¥¥Ybb^SUL\_RXY]^abbaa]a\_]```\_UaR[^¥`XZ]`  
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TGGCCCGATTGATGCCAGGGTCTGACTTCGAGTCTGGACG  
+HWI-EAS443:3:55:313:99#0/1  
TX\_\_W`a^LY`a]SY[PM^YVNV^NSNSYVLNJQ[`ZOX]  
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CGGTGGGATGGGCTCCAATCATCCGACGATTTTGCTCTCA

+HWI-EAS443:3:56:552:1368#0/1  
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ATCCAAGATTTCAGTATCGAGACTCCCAAGACCGTACTTAG  
+HWI-EAS443:3:56:890:1879#0/1  
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+HWI-EAS443:3:57:107:295#0/1  
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+HWI-EAS443:3:57:1451:988#0/1  
^`\_`^HV` `Yb][a`I^Ta`¥X^W¥R][R¥X`\_Z^\_RYZ¥¥  
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+HWI-EAS443:3:57:1607:1569#0/1  
abaa¥bbb]aaXaaa`a\_`¥\_\_`[``\_a`\_a`\_\_a\_[¥^X  
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CCCCAGGTGTTGCGATAGCCCTTCTTTTTAACTTGCCCTCT  
+HWI-EAS443:3:57:202:1065#0/1  
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+HWI-EAS443:3:57:426:1241#0/1  
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+HWI-EAS443:3:58:1709:828#0/1  
aa`Za`aaa`\_]\_aa\_`J\_a\_[UQFNX` `UN[\_`\_]\_aWYO]  
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+HWI-EAS443:3:58:456:73#0/1  
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GGGGGGCAATGAAAAGAAGCCAACTGGCAAATGTTGTG  
+HWI-EAS443:3:58:532:1640#0/1  
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+HWI-EAS443:3:58:57:1180#0/1  
UbbaY^ab`aaa` ` `]a\_[U`\_a]` `^a\_\_S`\_]\_`^  
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GGTGCTTATGGCATTGCGCTGGAATTTTTAGGAAAAGA  
+HWI-EAS443:3:58:951:409#0/1  
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TGCCTCTCTTATTCAGTCTTTGTTTTTCTTCCCTATTGT  
+HWI-EAS443:3:59:1100:456#0/1  
^`\_`\_ab`]¥\_YXG[J[Y^UZ^TaY[`aa`J\_OSYOJV\_RN

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@HWI-EAS443:3:59:50:1911#0/1  
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+HWI-EAS443:3:59:50:1911#0/1  
a]\_bbabbaabbab¥babaaaab¥\_`b`U`aV`aTZN\_¥]  
@HWI-EAS443:3:59:663:521#0/1  
TGAGGCAAGTTAAAAAGAAGGGCTATCGCAACACCTGGGA  
+HWI-EAS443:3:59:663:521#0/1  
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+HWI-EAS443:3:59:846:439#0/1  
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+HWI-EAS443:3:60:1138:1281#0/1  
^¥`]¥\_`aaaaaX`a\_\_a^aa\_a]a^`\_]a^\_\_]\_\_\_Y\_\_  
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+HWI-EAS443:3:60:134:1037#0/1  
I[VbbUb\_S\_bb^^^Z¥Z¥bbaaU^`WQ\_OJQ¥`b`K^\_^  
@HWI-EAS443:3:60:1365:1481#0/1  
AGGGTGCCATGCTCAGGATGTTTCTGAACCACTCGGGTTG  
+HWI-EAS443:3:60:1365:1481#0/1  
\_baa^baaabbaaa`ba\_aa\_aa]`aaa^^a\_\_Y\_\_^V\_^  
@HWI-EAS443:3:60:1617:1713#0/1  
TCCGGCAGCAACTGCATTGGCCAACACCATAGAAGTCTTT  
+HWI-EAS443:3:60:1617:1713#0/1  
aaaaa`b`]aaV^^[aa]T¥\_\_a]M^U¥[a]]Y\_Y\_S````  
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CGGCACCTATATGTGTATCTGTAGTCTTTGATGAACAATT  
+HWI-EAS443:3:60:692:1533#0/1  
aab`^]a¥]\_abb`aV]aa]`Yaa]aaa``aa\_^`[^\_[V  
@HWI-EAS443:3:60:692:25#0/1  
GCGACTTCGAGTCTGGACGGATCAAGAAAGAAGAGTTCTC  
+HWI-EAS443:3:60:692:25#0/1  
abaaaba`b]ba`abba`ba\_\_`\_\_a^\_`^`a`\_aY`\_]`  
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+HWI-EAS443:3:60:836:1172#0/1  
Vaa`a\_Zaaaa`aaaab\_ab[^`a\_\_baaa`\_a\_a`[a`[  
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+HWI-EAS443:3:61:1391:1550#0/1  
``¥Y`^baaabbbab`Z^a^aababbbbaa\_`Wa\_YMY[^ED  
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+HWI-EAS443:3:61:281:64#0/1  
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+HWI-EAS443:3:61:506:1988#0/1  
K\_\_]b[a\_abbb\_\_¥¥R`WV\_ZV`^\_TYU[G]NW`[QG  
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+HWI-EAS443:3:61:882:1613#0/1  
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+HWI-EAS443:3:62:1494:1054#0/1  
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+HWI-EAS443:3:63:540:996#0/1  
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+HWI-EAS443:3:64:203:189#0/1  
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+HWI-EAS443:3:64:455:667#0/1  
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+HWI-EAS443:3:66:347:75#0/1  
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+HWI-EAS443:3:67:1205:513#0/1  
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+HWI-EAS443:3:68:1200:452#0/1  
aa`]UUaaXQa\_\_a\_a]R`Y`^aa])^ZWVW^\_\_[\_¥Z]R  
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GCTGGCGACCTTGAGTTAGTTTATCTACCCTGTTTGTG  
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+HWI-EAS443:3:69:727:868#0/1  
a``babb¥aaaaaaa`\_```[^`^`a\_\_\_`¥\_\_`^¥[a^  
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+HWI-EAS443:3:71:1191:1013#0/1  
aa`\_\_\_a`\_\_aW`\_`Z^\_]\_]YZX¥^`Z\_^XX[XTLTPD  
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+HWI-EAS443:3:72:896:1098#0/1  
a`aSb`bbbbbaaaaaaa\_aaa`aaa`a`a\_a``^¥\_\_`  
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¥a\_bababaaa^^aaaa]Y\_\_`a`a\_a\_\_a`a`a[\_`Y\_¥



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+HWI-EAS443:3:79:675:1155#0/1  
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GGGACGGATCAAGAAAGAAGAGTTCTCTGAGATCATGAAG  
+HWI-EAS443:3:7:1104:1548#0/1  
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+HWI-EAS443:3:7:1553:1552#0/1  
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+HWI-EAS443:3:7:374:1251#0/1  
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aaaa\_a^a]``\_a`a``\_`baaa`a\_\_^a\_\_`\_a\_a`\_L  
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+HWI-EAS443:3:83:47:1137#0/1  
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+HWI-EAS443:3:83:672:926#0/1  
aa\_\_`aaaa^aaa```\_a^`Z`\_`XZa\_\_\_\_]aY]`a`\_]\_  
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a\_```baaa]aaaa`b`aa\_aaaa``\_``^¥^\_``\_]\_¥  
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+HWI-EAS443:3:84:1626:165#0/1  
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+HWI-EAS443:3:84:1647:1353#0/1  
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+HWI-EAS443:3:85:1281:1043#0/1  
`a`a\_\_\_\_a`a\_Y`U`Q¥^\_\_U\_a\_]RZ]^ZXK^ZBBBBB  
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+HWI-EAS443:3:85:283:1406#0/1  
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+HWI-EAS443:3:85:550:1293#0/1  
\_S[\_`ab`\_[a]a\_\_^a``\_T`\_¥]`\_]a\_a`¥^\_a  
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+HWI-EAS443:3:85:601:872#0/1  
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+HWI-EAS443:3:86:1783:915#0/1  
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+HWI-EAS443:3:86:178:2022#0/1  
a\_a\_XZa¥`¥``abba]aba\_[]YN`[]`b¥b^V``S`\_`a  
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+HWI-EAS443:3:86:368:1811#0/1  
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+HWI-EAS443:3:87:113:456#0/1  
]aaaab¥bb`\_aaaab\_a\_Z`aab\_]a`\_aa\_a\_\_`Y]^a  
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+HWI-EAS443:3:87:1170:327#0/1  
¥`bababaabb`babbbbbb\_bba¥\_\_`bbbbbab`bbab  
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¥\_Ua¥IY¥`ZY]0\_¥`]¥P\_¥\_``W`ba\_ba\_^Zb`ba  
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+HWI-EAS443:3:90:1728:267#0/1  
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+HWI-EAS443:3:93:246:1825#0/1  
]^Y]a` `aab`a]\_a^Z\_\_aa\_aaa`\_\_`V`\_\_`¥¥^][  
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+HWI-EAS443:3:94:221:1472#0/1  
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+HWI-EAS443:3:96:1793:479#0/1  
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Q\_0` `abV\_\_babZV` \_`ab`aaba\_\_bbabaaba\_F^b  
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+HWI-EAS443:3:100:1124:299#0/1  
W¥QY\_Y\_¥`^`^`¥R\_H¥Zab^^N^]b\_]a¥`^^aaa¥B  
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aaa^aaa][`Z`YY`\_[¥`\_bY`\_Z\_\_\_^[NWX[\_`\_^\_W  
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GTTCCAGAAACATCCTGAGCATGGCACCCATAATGTTCTCA  
+HWI-EAS443:3:100:1159:484#0/1  
aV`Z`a`\_a\_a[\_Z`a`\_\_\_\_^[^UPX]a\_^`\_]X]^W`  
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+HWI-EAS443:3:100:115:400#0/1  
aab^¥aaa\_`b`aa\_¥`aa^`a\_a``Z`]`\_a^a\_a¥\_X]  
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T^aab`¥\_`R[TYa^`b``HQ\_aXa]aZ]\_[ba^a¥P^BB  
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aaaaa`a`aa`a¥\_\_\_\_a^^a``]¥`\_^\_VU]^\_]OZZYV  
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+HWI-EAS443:3:100:1736:524#0/1  
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+HWI-EAS443:3:100:1756:969#0/1  
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+HWI-EAS443:3:100:219:1324#0/1  
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+HWI-EAS443:3:100:262:613#0/1  
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+HWI-EAS443:3:100:458:1811#0/1  
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+HWI-EAS443:3:100:612:318#0/1  
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+HWI-EAS443:3:100:614:1306#0/1  
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+HWI-EAS443:3:100:721:619#0/1  
aaaaaaaa`^a\_a^¥aa^[``a\_`a\_`^``]\_\_`]^`\_`Y\_



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+HWI-EAS443:3:100:910:1314#0/1  
a```aa\_a```\_a^^^^`\_¥^`aa\_¥\_\_\_\_^\_¥SW\_¥¥X  
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¥]Y\_0\_bb`W\_ab\_TVZba[b¥abbaZ]a\_ba\_ba````\_  
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aab`Y`ba`a`a`]`aaa¥aa]^`\_a`\_`^a^`\_`\_a^`\_]-  
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+HWI-EAS443:3:10:1472:724#0/1  
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+HWI-EAS443:3:10:147:1930#0/1  
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a[\_WZSR¥`\_aa¥Sa`\_a\_a\_a[`^`\_`¥`YSQS]XXSZ\_  
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+HWI-EAS443:3:10:506:252#0/1  
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+HWI-EAS443:3:10:591:269#0/1  
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+HWI-EAS443:3:10:770:289#0/1  
aa^]U[]\_]\_[\_¥W`Y[a\_a[\_`[[\_\_\_a[0\_\_[SYNNV\_  
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aaaa`aa[``aaa`\_`^`¥\_\_\_\_\_`^`\_`\_`Z^\_\_\_R^]V^  
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+HWI-EAS443:3:11:1033:1737#0/1  
a`]¥a\_aaab\_a\_\_\_\_\_a`^^^`^`\_\_\_^ZX\_Z\_¥^]]^]  
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a\_`¥[^a\_\_\_\_[aY\_[aaa\_¥` ]`\_\_^\_\_]V]]NTPR¥UPU  
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+HWI-EAS443:3:11:1190:1441#0/1  
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+HWI-EAS443:3:11:163:2032#0/1  
Z^`¥I00Va\_U\_¥]\_¥Q¥`a`^^UK`Y`Z`T`S[`aa\_  
@HWI-EAS443:3:11:167:1183#0/1  
AAAAATTCCAGCGCAAATGCCATAAGCACCATTCCTT  
+HWI-EAS443:3:11:167:1183#0/1  
ab`[\_`\_\_`\_^^`\_^Y^Z`\_^`^^`\_]Z¥`^]^^`¥XZ^]W  
@HWI-EAS443:3:11:1753:1295#0/1  
CACCAATACTCAGAAAAGGGAAAGTGGACGACAAACACAG  
+HWI-EAS443:3:11:1753:1295#0/1  
]\_b`^a`¥a`¥b¥N]M\_Zb]\_]`ZITYUYSZ¥`ab`][]a



@HWI-EAS443:3:11:1774:480#0/1  
GATTCAGTATCGAGACTCCCAAGACCGTACTTAGCATGTT  
+HWI-EAS443:3:11:1774:480#0/1  
^W]SN¥a`a\_R\_YaYJ¥UYLU^]RXLZW\_UYLUYLVGSBBB  
@HWI-EAS443:3:11:194:278#0/1  
GGAAGGCTAATAGATTTCTTAAAGGATGTAATGGAATCAA  
+HWI-EAS443:3:11:194:278#0/1  
aa\_S\_a^\_[SW`YP`VOUSJZM¥¥WMXWXPTYTVRVUSBB  
@HWI-EAS443:3:11:201:817#0/1  
AATCTGTCCACTCCTGCTTGTATTCCCTCATGTTTGGTG  
+HWI-EAS443:3:11:201:817#0/1  
XHO¥]`Xa`¥Xa¥VVX\_``[W]Z`Z`\_MW[UY`Z`aa`V]  
@HWI-EAS443:3:11:22:304#0/1  
GCCATGGTGTCTAGGGCCCGATTGATGCCAGGGTCGACT  
+HWI-EAS443:3:11:22:304#0/1  
\_aaVVX\_OSM]EQT¥M\_`\_UT[U`SV¥`XTS]BBBBBBB  
@HWI-EAS443:3:11:237:320#0/1  
GGGAGCTAATGGATGATGATTATCGGGGAAGACTTTGTAA  
+HWI-EAS443:3:11:237:320#0/1  
\_a\_0\_a\_`¥¥b`W[b]W\_b\_`baaaa^\_XR\_[``\_aa`Z`  
@HWI-EAS443:3:11:251:333#0/1  
CCTAGCTAAAGTTTCAACAAAGTATACGAAACCTCTAATC  
+HWI-EAS443:3:11:251:333#0/1  
ab`)]`a^Y`¥\_FX\_b`a[\_Rwa\_a`baa]aZS``\_aaaQ]  
@HWI-EAS443:3:11:368:829#0/1  
GCGCTGGAATTTTTAGGAAAAGTAGAGTCGGATTGACATC  
+HWI-EAS443:3:11:368:829#0/1  
aaba`aa¥]aaaa\_aa`a`\_aZa\_a`Z`W¥\_[¥\_]`^¥  
@HWI-EAS443:3:11:371:1897#0/1  
GGGAGCTAATGGATGATGATTATCGGGGAAGACTTTGTAA  
+HWI-EAS443:3:11:371:1897#0/1  
ab]^`aa¥\_`b`aa¥R^`baabab\_WY]\_a\_a\_][YRNaa  
@HWI-EAS443:3:11:389:1982#0/1  
TATGGCTTTCCTTGAAGAATCCCACCCAGGAATATTTGAG  
+HWI-EAS443:3:11:389:1982#0/1  
`ba][aa`a^R¥F[ba``S\_\_aaaa\_`G]Y\_\_a`SVX  
@HWI-EAS443:3:11:411:1241#0/1  
CTGACATGAGTATTGGAGTAACAGTGATAAAGAACAACAT  
+HWI-EAS443:3:11:411:1241#0/1  
`a`aa`aa`a^¥aa\_\_\_\_\_^a`\_aa[a```]`\_a\_`[\_``^^  
@HWI-EAS443:3:11:413:1879#0/1  
GAAGTACTTCAGGTCAATGCTTGCTAGCATTTCTGCTGGT  
+HWI-EAS443:3:11:413:1879#0/1  
aaba\_bbbabbb`¥aababbaaababaaaaaaaaaaaaaYK  
@HWI-EAS443:3:11:453:1239#0/1  
GCTCCAATCATCCGACGATTTTGCTCTCATAGTGAATGCA  
+HWI-EAS443:3:11:453:1239#0/1  
``Za^a\_]^[Y\_\_aaZ¥R]]W¥¥U¥Y\_\_\_\_]\_`N[`ZXSJY  
@HWI-EAS443:3:11:475:25#0/1  
GGCTATTAGTATCAGATGGAGGACCAAACCTTATACAATAT

+HWI-EAS443:3:11:475:25#0/1  
aa]\_b[YWaZ\_]XV`\_]\_`L^\_MUWST[OX]\_U¥XZ]W^B  
@HWI-EAS443:3:11:489:1967#0/1  
CATGACCAAGAAGATGGTCACGCAAAGAACAATAGGGAAG  
+HWI-EAS443:3:11:489:1967#0/1  
a\_J`b\_baab`bZN]b\_\_`ba\_a`aaYa^\_a\_Yaa¥a``a  
@HWI-EAS443:3:11:503:723#0/1  
CATGACCAAGAAGATGGTCACGCAAAGAACAATAGGGAAG  
+HWI-EAS443:3:11:503:723#0/1  
aaaa`ba`aaa\_a`\_a\_[aaaa`\_\_^a[^S^^``a\_[RXa  
@HWI-EAS443:3:11:511:482#0/1  
AAAAATTCCAGCGCAAATGCCATAAGCACCATTCCT  
+HWI-EAS443:3:11:511:482#0/1  
aaababbabaaX]aa\_a`aa\_\_aabaa``¥\_`\_`\_a^^`  
@HWI-EAS443:3:11:546:119#0/1  
GATTCCATTACATCCTTTAAGAAATCTATTAGCCTTCCTG  
+HWI-EAS443:3:11:546:119#0/1  
aba`aababaaaaaaabbaa`aaa`baaaaaa`\_\_^`\_  
@HWI-EAS443:3:11:566:506#0/1  
CATGAGTATTGGAGTAACAGTGATAAAGAACAACATGATA  
+HWI-EAS443:3:11:566:506#0/1  
abbbab^`\_abbab`aaaaa`aaaaaaaaa\_aaaa`aa`a  
@HWI-EAS443:3:11:570:199#0/1  
ATTGATGCCAGGGTCGACTTCGAGTCTGGACGGATCAAGA  
+HWI-EAS443:3:11:570:199#0/1  
a`\_aa\_\_aa`abaV\_\_\_aa`\_\_`¥\_\_ZaWV`\_SUQW^\_V  
@HWI-EAS443:3:11:575:1441#0/1  
GCATACCCACTTGGTTCATTATCCTCAGGTAGTGGTCCAT  
+HWI-EAS443:3:11:575:1441#0/1  
ab``aaa`a`a`a`a`aabaaa````\_Xa\_Ua\_Z`^S¥a`^`  
@HWI-EAS443:3:11:577:1747#0/1  
CATGAATTCTCAAATATTCCTGGGTGGGATTCTTCAAGGA  
+HWI-EAS443:3:11:577:1747#0/1  
aaa¥baaabaabb`aaa`a`a`]UKYa[a\_a^a\_\_a\_Y\_`  
@HWI-EAS443:3:11:593:981#0/1  
AATTGAAGAGCCATCTGGGCCGTTGCAGGTCCAAGTCCAT  
+HWI-EAS443:3:11:593:981#0/1  
aaaaaaaaZ\_baa¥`[`aZaP`][a[[\_UT^¥G\_\_U][^  
@HWI-EAS443:3:11:594:342#0/1  
GTCTTGCCATTTTGTGTTGAGAACATTATGGGTGCCATGCT  
+HWI-EAS443:3:11:594:342#0/1  
a^abababaaaaab`aaa`aaa`^`aa`a`\_Xa`]`^\_Z]  
@HWI-EAS443:3:11:597:812#0/1  
CTCCAATCATCCGACGATTTTGTCTCATAGTGAATGCAC  
+HWI-EAS443:3:11:597:812#0/1  
aaaabaabaa\_aaa`aa\_\_aa`\_`^aa\_[\_R`\_\_`X\_Z  
@HWI-EAS443:3:11:612:1154#0/1  
CCACTAACTTGCAGGTCTGTAGAATCTGTCCACTCCTGC  
+HWI-EAS443:3:11:612:1154#0/1  
aa`a`a\_a\_a\_\_a`aaX\_```\_\_\_\_\_]^`^`YV\_^^^\_Y^X]

@HWI-EAS443:3:11:622:189#0/1  
GATTTCAGTATCGAGACTCCCAAGACCGTACTTAGCATGTT  
+HWI-EAS443:3:11:622:189#0/1  
aaaaaaaa`baaa`a\_`aaa^`\_^]\_`Z]Y]]^W]]^^\_^^  
@HWI-EAS443:3:11:651:1101#0/1  
ATAAACAAATGACCTTGGACCTGCAACGGCCAGATGGCTC  
+HWI-EAS443:3:11:651:1101#0/1  
^^^Q\_bb^`^`a^]a^]`b^[`baba\_`\_Q\_`\_P\_UV[H  
@HWI-EAS443:3:11:663:1165#0/1  
CGGTCTTGGGAGTCTCGATACTGAATCTTGGACAAAAGAA  
+HWI-EAS443:3:11:663:1165#0/1  
`TRR`\_\_`[]Q[L¥ZN\_¥[] [UURYXZMVU[XZORZV]ZZ  
@HWI-EAS443:3:11:671:334#0/1  
CTGTTTACTGTGTCCATGGTGTATCCTGTTCCCTGTTCCAT  
+HWI-EAS443:3:11:671:334#0/1  
abba`^`aa\_Q^^\_HOXZ^GZVT¥]a\_`]Za[``\_TQ\_`H[  
@HWI-EAS443:3:11:690:1344#0/1  
TGGGATTCTTCAAGGAAAGCCATAGCCTCTAGAACACAGT  
+HWI-EAS443:3:11:690:1344#0/1  
XVSV[U^aW]`XV[aZPYW\_a]aRY^]]YY\_Y[¥PUF¥YB  
@HWI-EAS443:3:11:71:616#0/1  
TGCCAGGGTCGACTTCGAGTCTGGACGGATCAAGAAAGAA  
+HWI-EAS443:3:11:71:616#0/1  
]`a\_]b^RS\_aX¥`]`ba]abbbb¥NZ`]¥Ra]aPX`Y`a  
@HWI-EAS443:3:11:730:233#0/1  
GAAACATCCTGAGCATGGCACCCATAATGTTCTCAAACAA  
+HWI-EAS443:3:11:730:233#0/1  
aab\_ababab`aaaa`\_a^`\_\_a\_aa^]]\_^^\_^^^U\_Z  
@HWI-EAS443:3:11:759:1099#0/1  
AGATTTCTTAAAGGATGTAATGGAATCAATGAACAAAGAG  
+HWI-EAS443:3:11:759:1099#0/1  
aaabbbbbbbabb^aaaaaaabbbbaaa`aaaa]a^`\_``\_a  
@HWI-EAS443:3:11:794:1353#0/1  
ACCAAACCATGAGGGAATACAAGCAGGAGTGGACAGATTC  
+HWI-EAS443:3:11:794:1353#0/1  
aabaXa\_a`aaaaZU\_````\_a\_\_a\_\_a]\_[aU`\_Z]XXUG  
@HWI-EAS443:3:11:79:587#0/1  
CTCCCAGTAGGGGCAATGAAAAGAAGGCCAAACTGGCAA  
+HWI-EAS443:3:11:79:587#0/1  
aaaaaaaa[\_aa`aaa`a`````\_`a\_a[\_````¥``\_a\_^^  
@HWI-EAS443:3:11:806:427#0/1  
CATGGGCTGGCATTACCACAGCATTGTTTACAGAATCAAT  
+HWI-EAS443:3:11:806:427#0/1  
abaRK`XR`bYS`bVZWbbba]ab]bbbbS]ba`\_\_\_\_X\_a  
@HWI-EAS443:3:11:831:1813#0/1  
CATGTTGTTCTTTATCACTGTTACTCCAATACTCATGTCA  
+HWI-EAS443:3:11:831:1813#0/1  
ababaab\_abaaaaabaaa`aaaa`aaaa^a\_a\_a\_a^]a  
@HWI-EAS443:3:11:836:373#0/1  
CCCAGTGATTGTGAAAGAAATCTCTGTGTCTTGTGAATTA

+HWI-EAS443:3:11:836:373#0/1  
\_ba]\_`aaaab`bY`ab`b`Y`\_aa\_aS`a\_P]]V[[ZT  
@HWI-EAS443:3:11:846:1420#0/1  
GAGATAACAACCCACTTTCAAAGAAAAAGGAGAGTAAGAG  
+HWI-EAS443:3:11:846:1420#0/1  
a^]\_\_a`\_`[a^^\_[\_a\_aa`]a`\_ZZa`\_¥a\_aXaa\_\_\_\_  
@HWI-EAS443:3:11:899:1498#0/1  
GAACGATTCTTCTTGGGAATCCAGGAATGTGTAGTTGCAA  
+HWI-EAS443:3:11:899:1498#0/1  
a`bbbaaaba`aaaa\_V]T\_\_`\_W```a`]`W`aYN]\_[\_`  
@HWI-EAS443:3:11:917:2043#0/1  
AGGGCTATTAGTATCAGATGGAGGACCAAACCTTATACAAT  
+HWI-EAS443:3:11:917:2043#0/1  
aaaaaaba`b`^aa\_a`\_```\_\_\_\_]\_\_a\_a^`\_`\_`]\_\_^`  
@HWI-EAS443:3:11:919:1376#0/1  
AAGGGAATGTGGTCTTATGGCATTGCGCTGGAATTTT  
+HWI-EAS443:3:11:919:1376#0/1  
a[bbb]`bbabaWb][aa]a\_SU\_a`\_a``Waa`^\_a`\_a`  
@HWI-EAS443:3:11:957:1144#0/1  
AACAGATCTTCATGATCTCAGAGAACTCTTCTTTCTTGAT  
+HWI-EAS443:3:11:957:1144#0/1  
]Z^`YWZa^bb¥XSTR¥`¥`YU¥`UG¥aa^¥S\_X`]\_]ZU  
@HWI-EAS443:3:11:973:1270#0/1  
GGGGCAATGAAAAGAAGGCCAAACTGGCAAATGTTGTGAG  
+HWI-EAS443:3:11:973:1270#0/1  
a^Z\_]a`]]^¥XSY][`\_S\_]][V¥^¥OXYUZ\_TZ^V\_Y\_  
@HWI-EAS443:3:11:980:547#0/1  
GCAATCTATTCGAGAAATTTTTCCCTAGCAGTTCATATAG  
+HWI-EAS443:3:11:980:547#0/1  
a¥][^T¥]\_ZPW¥`[OMWV[¥ZTUQYQ^XXZXUYX^S\_]B  
@HWI-EAS443:3:12:1065:1956#0/1  
CTTTGTTGATTCATTGAAGTACTTCAGGTCAATGCTTGCT  
+HWI-EAS443:3:12:1065:1956#0/1  
aab`Sa\_bba\_^b\_a¥`ba[aaaaWaa`a\_\_^`a`\_`^`¥`  
@HWI-EAS443:3:12:1074:985#0/1  
GCAGAGAGAGGCAAGTTAAAAAGAAGGGCTATCGCAACAC  
+HWI-EAS443:3:12:1074:985#0/1  
\_`a`[\_`\_]Yaa`]X¥Z^^\_VR\_a[U]QYWZZ¥X\_WT¥FWB  
@HWI-EAS443:3:12:109:88#0/1  
ACTCGAAGTCGACCCTGGCATCAATCCGGGCCCTAGACAC  
+HWI-EAS443:3:12:109:88#0/1  
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@HWI-EAS443:3:12:1112:1732#0/1  
CAATCCGACTCTACTTTTCTTAAAAATTCCAGCGCAAAT  
+HWI-EAS443:3:12:1112:1732#0/1  
abbb¥aaa`baa`^]baaababaabaaaW\_abYa`aa`\_`  
@HWI-EAS443:3:12:113:211#0/1  
AGAAATGCTAGCAAGCATTGACCTGAAGTACTTCAATGAA  
+HWI-EAS443:3:12:113:211#0/1  
aa¥Z\_\_bb`]a[SSVVSU¥\_\_\_\_ZHR^ZYJSTTMOX[YWW[

@HWI-EAS443:3:12:1201:110#0/1  
GCCTTATTTTCTCAATTTTCTTCTTTGTTGATTCATTGAA  
+HWI-EAS443:3:12:1201:110#0/1  
a^\_a^¥\_a^V^`¥^P\_a\_`^\_W^\_\_]aY^^]\_[SXXUY[  
@HWI-EAS443:3:12:1217:812#0/1  
CTTCGAGTCTGGACGGATCAAGAAAGAAGAGTTCTCTGAG  
+HWI-EAS443:3:12:1217:812#0/1  
S[¥¥\_H¥`¥`WabZU\_Z`a¥¥`^[`ba]b\_`Z¥\_a]bab^  
@HWI-EAS443:3:12:1239:1984#0/1  
CAGTGATTGTGAAAGAAATCTCTGTGTCTTGTGAATTAGT  
+HWI-EAS443:3:12:1239:1984#0/1  
\_`ba`^^abab\_bbbbbaba]`ba`b]Q\_b\_Y`a`ba`aa  
@HWI-EAS443:3:12:1239:470#0/1  
GACAATATACTGGTGGGATGGGCTCCAATCATCCGACGAT  
+HWI-EAS443:3:12:1239:470#0/1  
a``a`a\_aa\_aaaXaaa]¥VX]W]X]Y]^WUXUT^XX^UX  
@HWI-EAS443:3:12:1274:1853#0/1  
TCCCCGATAATCATCATCCATTAGCTCCCATTTTAAGCAG  
+HWI-EAS443:3:12:1274:1853#0/1  
`aa\_b`aa\_[a\_\_`X\_`^`\_\_`^`\_\_]Y\_\_\_\_`\_`WZM^\_  
@HWI-EAS443:3:12:1278:1225#0/1  
CCACCCAGGAATATTTGAGAATTCATGCCTTGAAACAATG  
+HWI-EAS443:3:12:1278:1225#0/1  
aa`aWL]aaaaa`aab`a^X`\_``]a[\_`a^aU\_\_  
@HWI-EAS443:3:12:1340:1376#0/1  
AGCTTGAACAGTCTGGGCTCCCAGTAGGGGGCAATGAAAA  
+HWI-EAS443:3:12:1340:1376#0/1  
abab[WT\_]\_TWX`XYX^K¥^S]SZZX`]Z[¥`\_a\_\_\_\_`  
@HWI-EAS443:3:12:134:104#0/1  
AATTGAAGAGCCATCTGGGCCGTTGCAGGTCCAAGGTCAT  
+HWI-EAS443:3:12:134:104#0/1  
aaaaaaaaa`a`\_``\_``\_``^\_X^`]^^^YYYYW\_YVZR[  
@HWI-EAS443:3:12:1360:233#0/1  
TGGATGTCAATCCGACTCTACTTTTCTAAAAATTCAGC  
+HWI-EAS443:3:12:1360:233#0/1  
abbaab``ab`]\_aX\_a`ba^`aa`\_\_aaa`a^a\_[¥```]  
@HWI-EAS443:3:12:1391:1131#0/1  
AATCCAGCGCAAAATGCCATAAGCACCACATTCCTTAT  
+HWI-EAS443:3:12:1391:1131#0/1  
]`\_`]a¥S]\_\_]aY\_WKZ[S\_]0`^a]¥\_[R\_\_ZLR^M]U  
@HWI-EAS443:3:12:1398:152#0/1  
GTATTGGTGTGTTCTGTTTACTGTGTCCATGGTGTATCCT  
+HWI-EAS443:3:12:1398:152#0/1  
aaabbab`b\_a```\_aa`aaa\_aa^a]\_Z\_\_^a^`Z^aZW^  
@HWI-EAS443:3:12:1403:1301#0/1  
GTTTGGCCTTCTTTTCATTGCCCCCTACTGGGAGCCCAGA  
+HWI-EAS443:3:12:1403:1301#0/1  
aSW\_MW\_T`¥\_\_aX^GZ\_[a¥ZNPP`HUZ\_V\_WWSSUVWB  
@HWI-EAS443:3:12:1417:1328#0/1  
GTCTCCTATATGAACTGCTAGGGAAAAATTTCTCGAATAG

+HWI-EAS443:3:12:1417:1328#0/1  
Y`^ba`aabb¥bbbbbbbbb`babbba`bb[V\_abba\_^\_  
@HWI-EAS443:3:12:1429:1137#0/1  
TCCACTTAGTGTGTCCCCAGTGATTGTGAAAGAAATCTC  
+HWI-EAS443:3:12:1429:1137#0/1  
aaaaYbbaa[b`baa\_]\_\_aa]a^aba\_a\_a\_`\_``\_P`Y  
@HWI-EAS443:3:12:143:660#0/1  
CTTTGATGAACAATTGAAGAGCCATCTGGGCCGTTGCAGG  
+HWI-EAS443:3:12:143:660#0/1  
ababbbab`a``¥bba`]^aaaa`a\_\_\_aa\_a¥^^][`\_  
@HWI-EAS443:3:12:1466:320#0/1  
AAAAATTCCAGCGCAAATGCCATAAGCACCACATTCCCT  
+HWI-EAS443:3:12:1466:320#0/1  
aaaa]aa¥Z^`Z`^`\_\_`aY]\_]^a\_\_WWZZ^`^TSV^  
@HWI-EAS443:3:12:1512:1141#0/1  
AAATTCCAGCGCAAATGCCATAAGCACCACATTCCCTTA  
+HWI-EAS443:3:12:1512:1141#0/1  
a^aaa`\_`aX`^`\_\_`]Z\_\_]^QaYW^^^\_¥]WW\_^\_  
@HWI-EAS443:3:12:1547:347#0/1  
CACTGTTACTCCAATACTCATGTCAGCTGATTCATTTACT  
+HWI-EAS443:3:12:1547:347#0/1  
ab`Z[H¥^]YSS¥ZYRS`[]`RVRNIQ[]BBBBBBBBBB  
@HWI-EAS443:3:12:1601:425#0/1  
GGCTCCAATCATCCGACGATTTTGCTCTCATAGTGAATGC  
+HWI-EAS443:3:12:1601:425#0/1  
\_WRN¥^\_\_a]STUP¥W`^^TK¥Z¥Z[^NWWUVYU\_BBBBBB  
@HWI-EAS443:3:12:1602:1359#0/1  
AATGAATCAGCTGACATGAGTATTGGAGTAACAGTGATAA  
+HWI-EAS443:3:12:1602:1359#0/1  
a`\_V`\_`[`Z]^WPV¥¥¥^SY\_¥]YU[YY]W[]SXXVXB  
@HWI-EAS443:3:12:1619:257#0/1  
ACCAAGACAATATACTGGTGGGATGGGCTCCAATCATCCG  
+HWI-EAS443:3:12:1619:257#0/1  
aaaaabSbaab\_aZ\_aa\_]Z¥XQ^[a`T[U]Y^]T\_\_VT[  
@HWI-EAS443:3:12:1634:1504#0/1  
GTCCAATCATAAGTCTGGCGACCTTGAGTTAGTTTATCTA  
+HWI-EAS443:3:12:1634:1504#0/1  
aW\_[^a`Y^^X¥UY[\_^S¥\_]\_]Y\_[ZRWY\_W^Z]XZZZ  
@HWI-EAS443:3:12:1653:1797#0/1  
ATTCGATCTAAAGACTTCTATGGTGTGGCCAATGCAGTT  
+HWI-EAS443:3:12:1653:1797#0/1  
a\_a^a`^^a\_\_NQY[aWa\_^GPMT^Y]BBBBBBBBBBBB  
@HWI-EAS443:3:12:1707:619#0/1  
AAGAATCCCACCCAGGAATATTTGAGAATTCATGCCTTGA  
+HWI-EAS443:3:12:1707:619#0/1  
abab`b`^X\_XRVZ\_ZXaa`aaaa\_aa¥a`S`^WUSa`\_\_  
@HWI-EAS443:3:12:1709:1063#0/1  
AGGGATTGAGGGATTACAAAGTCTTCCCCGATAATCATC  
+HWI-EAS443:3:12:1709:1063#0/1  
aab`]`Z`bb^`aaaa\_Z`a`a^`aa[SS\_a^`\_]\_\_R

@HWI-EAS443:3:12:1712:221#0/1  
ATTGGTGTGTTCTGTTTACTGTGTCCATGGTGTATCCTGT  
+HWI-EAS443:3:12:1712:221#0/1  
abbbb^b`bab`abaaa\_aa`a`^`\_\_aa]Xa^` `[N^\_^  
@HWI-EAS443:3:12:1740:1462#0/1  
AATTCCCCTTTGGCTTGTGTTGAGAATAGAACGATTCCCTC  
+HWI-EAS443:3:12:1740:1462#0/1  
aaba¥` `\_baaaaZY` [`VYaaG^^`\_Z^]XQY[¥RBBBB  
@HWI-EAS443:3:12:1753:155#0/1  
CAGCTGATTCATTTACTCCAGACACTCCAAAGCTGGGTAG  
+HWI-EAS443:3:12:1753:155#0/1  
ab[D]abbaaaa`R\_Xaaa`Ta]`a]]X[TT[] [XG]¥  
@HWI-EAS443:3:12:281:714#0/1  
AAAAATTCCAGCGAAAATGCCATAAGCACCATTCCT  
+HWI-EAS443:3:12:281:714#0/1  
abaa^a`a`a^a\_]^`Z]^`a`\_\_[]\_Z\_^]ZX^^^  
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CTCCAATCATCCGACGATTTTGTCTCATAGTGAATGCAC  
+HWI-EAS443:3:12:33:293#0/1  
a`aaVJ\_]Z``[XV\_Pa`UR\_U[]ZQ¥ZZ^Z`WS\_YY]X  
@HWI-EAS443:3:12:349:812#0/1  
GAACAATTGAAGAGCCATCTGGGCCGTTGCAGGTCCAAGG  
+HWI-EAS443:3:12:349:812#0/1  
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@HWI-EAS443:3:12:356:511#0/1  
GATGGCTCTTCAATTGTTTCATCAAAGACTACAGATACACA  
+HWI-EAS443:3:12:356:511#0/1  
a`^`\_a\_a\_`¥^W[\_a]^]\_X¥^]\_W\_UX^V\_Z]X\_0]V\_  
@HWI-EAS443:3:12:362:1837#0/1  
GTAGAATCTGTCCACTCCTGCTTGTATTCCCTCATGGTTT  
+HWI-EAS443:3:12:362:1837#0/1  
a`^`b`ba`b`\_baaaa`b`¥^aa`Xaa`\_`W\_a`\_¥\_^\_^  
@HWI-EAS443:3:12:398:557#0/1  
GCCAGGTTCGACTTCGAGTCTGGACGGATCAAGAAAGAAG  
+HWI-EAS443:3:12:398:557#0/1  
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@HWI-EAS443:3:12:40:757#0/1  
TCCTGCTTGTATTCCCTCATGGTTTGGTGCATTCACTATG  
+HWI-EAS443:3:12:40:757#0/1  
a]a[b`]``RUZZ\_¥XP]IY`\_IZWbWa`\_YaO[W`Y\_¥[  
@HWI-EAS443:3:12:410:361#0/1  
CCAGGTGTTGCGATAGCCCTTCTTTTTAACTTGCCCTCTCT  
+HWI-EAS443:3:12:410:361#0/1  
ab]\_b^b\_aaabaa^```aaa\_aa`aa`a\_\_^\_Z\_a]`^a  
@HWI-EAS443:3:12:41:1100#0/1  
AGACTTTGTAATCCCCTGAATCCCCTTGTGTCAGTCATAAAG  
+HWI-EAS443:3:12:41:1100#0/1  
`a\_\_abba]aaaaa`a`\_``\_``\_` [``\_W`^^^Z^\_  
@HWI-EAS443:3:12:425:240#0/1  
TAATGCCAGCCCATGGTCCAGCCAAAAGCATGGAATATGA

+HWI-EAS443:3:12:425:240#0/1  
abbababb`a]a^a]``aaa`UX]````Ja[¥\_`a\_\_\_\_`\_  
@HWI-EAS443:3:12:427:193#0/1  
ATCCTTTAAGAAATCTATTAGCCTTCCTGACTCATTAGCT  
+HWI-EAS443:3:12:427:193#0/1  
abV\_`\_aaabP^`^aaaaa`[`¥X\_ZXTTP]```\_\_a¥Y  
@HWI-EAS443:3:12:42:2041#0/1  
ATGGGCTCCAATCATCCGACGATTTTGCTCTCATAGTGAA  
+HWI-EAS443:3:12:42:2041#0/1  
aa]^¥`aa\_¥`\_aa`\_aaZ`\_a\_\_a]]X`\_`\_\_[\_`^`^^  
@HWI-EAS443:3:12:45:1196#0/1  
ACAGAACACACCAATACTCAGAAAAGGGAAAGTGGACGAC  
+HWI-EAS443:3:12:45:1196#0/1  
Wab¥S¥ab`aaaaUa¥[[b`ZR¥a]`¥VYVY¥0[RSYa` [  
@HWI-EAS443:3:12:45:1226#0/1  
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+HWI-EAS443:3:12:45:1226#0/1  
U`W`Tab`Z[b`bba]X¥[¥ba^TWTV`Y00[\_LPa\_ZO\_  
@HWI-EAS443:3:12:490:1315#0/1  
GGTGGGATGGGCTCCAATCATCCGACGATTTTGCTCTCAT  
+HWI-EAS443:3:12:490:1315#0/1  
aaX[`Z`Y]\_a^VW\_aa]]`\_\_a\_¥0Y\_[¥]ZXRv]Q`¥  
@HWI-EAS443:3:12:524:1703#0/1  
GAACAATTGAAGAGCCATCTGGGCCGTTGCAGGTCCAAGG  
+HWI-EAS443:3:12:524:1703#0/1  
abbbaa``\_bbaabZaaab]a`aa\_a\_]aaa\_\_¥Yaa\_^^  
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ATGATAAACAATGACCTTGGACCTGCAACGGCCCAGATGG  
+HWI-EAS443:3:12:600:1517#0/1  
`a`ba`abaa\_Za\_^^`\_\_^\_a\_\_`a\_\_¥¥]X]]BBBBB  
@HWI-EAS443:3:12:614:638#0/1  
ACCTGAAGTACTTCAATGAATCAACAAAGAAGAAAATTGA  
+HWI-EAS443:3:12:614:638#0/1  
aaa[\_a`aSb\_`\_`aaa]^^`[W[\_`\_`Y]a^`\_`^\_\_\_\_^  
@HWI-EAS443:3:12:661:1136#0/1  
AACAGAAATCAACCGCAGCAACTGCATTGGCCAACACCA  
+HWI-EAS443:3:12:661:1136#0/1  
ab`b\_`aW`a`a`\_¥R\_a[X]\_TFZ]a]¥Y^^^VY\_\_V^]  
@HWI-EAS443:3:12:681:877#0/1  
GGGCTCCAATCATCCGACGATTTTGCTCTCATAGTGAATG  
+HWI-EAS443:3:12:681:877#0/1  
aab`aaa`[^\_ZaSaa`aaaaba`U]aaZ\_`\_]aQ`a¥  
@HWI-EAS443:3:12:727:879#0/1  
GTAGTCTTTGATGAACAATTGAAGAGCCATCTGGGCCGTT  
+HWI-EAS443:3:12:727:879#0/1  
aQU¥X`Y\_aM]VZ`Z^`\_[aZ\_P[Za¥¥U`\_\_Z¥YUQaBB  
@HWI-EAS443:3:12:746:1869#0/1  
AGACAATATACTGGTGGGATGGGCTCCAATCATCCGACGA  
+HWI-EAS443:3:12:746:1869#0/1  
[b\_X]Nb^\_S\_a`\_X`\_a`HS`^]0aa¥¥^\_^VXa^ZXa[



@HWI-EAS443:3:12:759:1991#0/1  
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+HWI-EAS443:3:12:759:1991#0/1  
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+HWI-EAS443:3:12:849:1685#0/1  
`abaabab`aaZ\_aS`Za`aZa`R`N`aa\_]KZ`\_VTaa\_  
@HWI-EAS443:3:12:864:1488#0/1  
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+HWI-EAS443:3:12:864:1488#0/1  
`bbbab`bb`][ab`aa][aaaabaa`abaabaaaa`a\_X  
@HWI-EAS443:3:12:91:1278#0/1  
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+HWI-EAS443:3:12:91:1278#0/1  
a^]YTWYY]\_UaTTP`\_QTPJW`VTO`UWWGR`LY]XOUZ  
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+HWI-EAS443:3:12:954:231#0/1  
\_¥]¥aa`bba^^a`[ZT]a^Z`Xa\_]X\_VZa]]\_T\_^  
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+HWI-EAS443:3:12:95:544#0/1  
abb\_b`a^\_bab¥bbaa`aabb`\_`abbaabbaaabbbaa  
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GTAGAATCTGTCCACTCCTGCTTGTATTCCCTCATGGTTT  
+HWI-EAS443:3:12:983:1929#0/1  
aZaYaaY^^\_RRO^PLV^X]X\_OOLTU^UWXOR]¥XBBBB  
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+HWI-EAS443:3:12:986:1771#0/1  
Y[¥\_X¥`^TZ¥^`¥WY^a`W[^a`ab\_^a`\_ab^`\_bbWQ  
@HWI-EAS443:3:13:1007:658#0/1  
GTAGTCTTTGATGAACAATTGAAGAGCCATCTGGGCCGTT  
+HWI-EAS443:3:13:1007:658#0/1  
a\_aaaabaabbbaa\_\_^a`aaaaa\_\_\_\_\_a^\_a`aX]aY\_  
@HWI-EAS443:3:13:1008:783#0/1  
GATGGCACAGCATCACTGAGTCCTGGGATGATGATGGGCA  
+HWI-EAS443:3:13:1008:783#0/1  
a\_\_`a`a`a`\_]\_]`a\_a^\_]\_]`^^a^]a^\_^]]U^  
@HWI-EAS443:3:13:1011:1946#0/1  
CTGGAGTAAATGAATCAGCTGACATGAGTATTGGAGTAAC  
+HWI-EAS443:3:13:1011:1946#0/1  
aa`aaa]abb`^aaaYaa`aa`^\_a`a`Ya\_\_^\_]^[a\_^  
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ATGGAATCAATGAACAAAGAGGAAATAGAGATAACAACCC  
+HWI-EAS443:3:13:1068:778#0/1  
abbaaabababa\_`a`aab^ba\_\_aaa`a`\_a\_\_a\_^]`^  
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CCTCCATCTGATACTAATAGCCCTACCTTTGATTGGGTTT

+HWI-EAS443:3:13:1087:568#0/1  
aabaaaa`aaaaa\_a`aa`\_\_\_\_`^^`aa\_\_^`a\_`Z`^  
@HWI-EAS443:3:13:108:1530#0/1  
GAGAAAATAAGGCCTCTTCTAATAGATGGCACAGCATCAC  
+HWI-EAS443:3:13:108:1530#0/1  
\_V\_]ZXR¥UQU[`US]\_\_a]¥]TZTOS¥[\_\_¥^W]SUZU]  
@HWI-EAS443:3:13:1095:1286#0/1  
AAAATCGTCGGATGATTGGAGCCCATCCCACCAGTATATT  
+HWI-EAS443:3:13:1095:1286#0/1  
aaaaa`\_]a\_a`\_]a\_\_\_aW\_\_\_\_\_¥\_Z^X\_W¥\_]\_^  
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ACTGCATTGGCCAACACCATAGAAGTCTTTAGATCGAATG  
+HWI-EAS443:3:13:1107:484#0/1  
aaabaa``aaa\_aa`a^`^\_\_`a`^`aa\_\_\_]a]a^`\_^  
@HWI-EAS443:3:13:1132:1726#0/1  
CAGAAATCAACCGGCAGCAACTGCATTGGCCAACACCATA  
+HWI-EAS443:3:13:1132:1726#0/1  
a`Z``bb\_aba[b\_bb\_X\_a][¥aa`a]\_a`Z\_\_X\_a]a  
@HWI-EAS443:3:13:1176:1907#0/1  
AAAAATTCCAGCGCAAATGCCATAAGCACCACATTCCCT  
+HWI-EAS443:3:13:1176:1907#0/1  
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@HWI-EAS443:3:13:1179:761#0/1  
ATGAACCAAGTGGGTATGCACAAACAGACTGTGTTCTAGA  
+HWI-EAS443:3:13:1179:761#0/1  
a^\_aa]\_`Y``b]bU]]ZQZW`\_`\_]`^^`]G\_XPQFSBB  
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AATTGAAGAGCCATCTGGGCCGTTGCAGGTCCAAGGTCAT  
+HWI-EAS443:3:13:117:730#0/1  
aaaaa\_a\_\_¥aa`\_]`\_]`^`^`^^`]`\_]Y^U^Y\_^U^]`  
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+HWI-EAS443:3:13:1222:1048#0/1  
ab\_aaaa``abaaabaaaa\_`aaa`a`¥aWaa`Zaa`^^  
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CGATACTGAATCTTGGACAAAAGAAATACACCAAGACAAT  
+HWI-EAS443:3:13:1248:724#0/1  
aa^`\_]`a`aXaaa`[aaa`\_`a\_aa\_W\_XWW`a^X^]`  
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+HWI-EAS443:3:13:1353:1939#0/1  
`babbb`bbbaabaabbbba`b``bbba`b\_b^b`b[  
@HWI-EAS443:3:13:1382:733#0/1  
AGGTAGTGGTCCATCAATCGGGTTGAGCTGGGGTGCACCA  
+HWI-EAS443:3:13:1382:733#0/1  
aa[Q]b¥X¥R\_[`^PYRZV[`\_P¥YYV^\_VQT`W`SYPQM  
@HWI-EAS443:3:13:1408:420#0/1  
TTTTGTTTGAGAACATTATGGGTGCCATGCTCAGGATGTT  
+HWI-EAS443:3:13:1408:420#0/1  
aaaaaaaa`aaa`]`[^`\_`a`aa\_Z`WX¥^^]]WXa`Z¥`^^

@HWI-EAS443:3:13:1424:517#0/1  
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+HWI-EAS443:3:13:1424:517#0/1  
a`aaa^a\_abbZ` `a\_a` `a`¥`¥^a\_\_^\_a\_`V`X]\_^R  
@HWI-EAS443:3:13:1432:1088#0/1  
AATCTGCATCCCAGGTGTTGCGATAGCCCTTCTTTTAAAC  
+HWI-EAS443:3:13:1432:1088#0/1  
TUH¥aY^YW`a]PXXQXYUZY¥¥XTWTV[P[W\_X]PBBBB  
@HWI-EAS443:3:13:146:1784#0/1  
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+HWI-EAS443:3:13:146:1784#0/1  
]aaWX`^^¥W`aY\_aX\_aUTYaa\_VV[\_\_\_^X^^WZ^\_YRU  
@HWI-EAS443:3:13:1470:313#0/1  
TGGGTGCCATGCTCAGGATGTTTCTGAACCACTCGGGTTG  
+HWI-EAS443:3:13:1470:313#0/1  
abbb\_a\_\_aab`a¥aaa\_aa^aa\_aaa`]T]X[V^`XW¥`  
@HWI-EAS443:3:13:1476:792#0/1  
GCCATGCTCAGGATGTTTCTGAACCACTCGGGTTGATTTC  
+HWI-EAS443:3:13:1476:792#0/1  
a`a\_ab^][[\_a¥\_\_^a\_Y`a\_\_^UZ^^[\_^PER\_W]\_]S  
@HWI-EAS443:3:13:1508:391#0/1  
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+HWI-EAS443:3:13:1508:391#0/1  
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+HWI-EAS443:3:13:1532:717#0/1  
a`a`aa`Za`\_¥\_^[]]\_^\_\_¥^\_]\_Z^]]\_^YZUW  
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TGGCACCTATATGTGTATCTGTAGTCTTTGATGAACAATT  
+HWI-EAS443:3:13:1537:1337#0/1  
a\_a[````X`aa`\_]\_\_b`a^]]aVWa`\_a^X^\_]MY¥\_`  
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CTTGGGAGTCTCGATACTGAATCTTGGACAAAAGAAATAC  
+HWI-EAS443:3:13:1578:393#0/1  
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+HWI-EAS443:3:13:1582:206#0/1  
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aXbb^abababa^a]^¥abaaaba0a\_Y\_aa\_`b\_\_a`^`  
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TGTCCCCAGTGATTGTGAAAGAAATCTCTGTGTCTTGTGA  
+HWI-EAS443:3:13:1683:1247#0/1  
ab\_`]`]abYaWa\_bIaaaa`Ya`\_]¥`a\_`\_¥aZUU]B  
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@HWI-EAS443:3:13:533:1967#0/1  
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+HWI-EAS443:3:13:533:1967#0/1  
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+HWI-EAS443:3:13:545:504#0/1  
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@HWI-EAS443:3:13:551:347#0/1  
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+HWI-EAS443:3:13:551:347#0/1  
a\_baa^ab\_a^aaa^aa`a`aa^^`\_^`a`^^`\_\_\_^^  
@HWI-EAS443:3:13:565:1793#0/1  
AGTAAATGAATCAGCTGACATGAGTATTGGAGTAACAGTG  
+HWI-EAS443:3:13:565:1793#0/1  
]YK\_bbaaV¥^`YLZY[¥Pa\_\_^¥K¥`Z^YYUW\_\_S]^W]  
@HWI-EAS443:3:13:589:1084#0/1  
GTTTCGAGAGTAAAAGAATGAAGATTGCAACACAAATACCA  
+HWI-EAS443:3:13:589:1084#0/1  
`]\_Z\_[T^`Ya]`baabaa]aaV`\_aa`T¥`Zaaa\_]VXa  
@HWI-EAS443:3:13:610:181#0/1  
CTTGGGAGTCTCGATACTGAATCTTGGACAAAAGAAATAC  
+HWI-EAS443:3:13:610:181#0/1  
``a]MZ^\_[[a`\_X\_\_Q]`^XZR^a\_]X^]\_]\_^\_Z]Z  
@HWI-EAS443:3:13:640:795#0/1  
TTTAGCTAGGAGCATTGCGAAAAGCTTGAACAGTCTGGG  
+HWI-EAS443:3:13:640:795#0/1  
a]W¥]¥T[^T¥\_aa[HU]WX`a\_V]ITS¥^Z¥V\_QSX^\_\_  
@HWI-EAS443:3:13:649:1167#0/1  
CTACTTTTCTAAAAATTCCAGCGCAAATGCCATAAGCA  
+HWI-EAS443:3:13:649:1167#0/1  
a`aaa`aabaabaab`a`aaaaUa\_aa\_aa`]\_aa``\_0a  
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GATGCCAGGGTCGACTTCGAGTCTGGACGGATCAAGAAAG  
+HWI-EAS443:3:13:658:944#0/1  
]YX¥b`]Y\_R\_XYYXTV\_V¥R¥\_a]\_Y[YPX^`[¥[\_\_\_[  
@HWI-EAS443:3:13:742:884#0/1  
CATCCCAGGTGTTGCGATAGCCCTTCTTTTTAACTTGCCT  
+HWI-EAS443:3:13:742:884#0/1  
¥WL¥a[a[\_[\_aab``TZVZa]¥a[^^[``YT^a``ZZ]B  
@HWI-EAS443:3:13:754:663#0/1  
GCATTTGCGAAAAGCTTGAACAGTCTGGGCTCCCAGTAGG  
+HWI-EAS443:3:13:754:663#0/1  
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@HWI-EAS443:3:13:793:1174#0/1  
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+HWI-EAS443:3:13:793:1174#0/1  
a][aaaaabaaa\_aaa`]¥[`aa]a`Y]\_\_\_\_]\_\_\_\_]NZ  
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+HWI-EAS443:3:13:83:60#0/1  
aa\_a\_a`\_\_\_\_\_`^`]^\_a\_]\_a^WZ^^`W][ZV[WVTVVV  
@HWI-EAS443:3:13:877:988#0/1  
GAAGGGCTATCGCAACACCTGGGATGCAGATTAGAGGTTT  
+HWI-EAS443:3:13:877:988#0/1  
a\_aa`a\_a^`\_]U¥[]]W¥\_`V\_`^Z\_]\_^\_¥[\_¥W\_]`  
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+HWI-EAS443:3:13:904:97#0/1  
aa\_ba`\_b[`I`\_Gb`a`a`\_`^^a^W\_aYa^V`\_`^Y  
@HWI-EAS443:3:13:978:335#0/1  
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+HWI-EAS443:3:13:978:335#0/1  
Y]babb]`^`aa`^\_Saa\_]V`aab\_a`aPaa`a\_a]^a  
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GTTTGGTGCATTCACTATGAGAGCAAATCGTCGGATGAT  
+HWI-EAS443:3:13:979:390#0/1  
aQ`]]`V^\_a[W^YGV]^\_Y]S^VTVTVX[^XYUVU][VG  
@HWI-EAS443:3:13:991:1883#0/1  
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+HWI-EAS443:3:13:991:1883#0/1  
````abbabaaaaba]aa\_aaaa`aab`\_aaaaa\_``^a  
@HWI-EAS443:3:14:1010:321#0/1
ATCAGATGGAGGACCAAACCTTATACAATATACGGAATCTT
+HWI-EAS443:3:14:1010:321#0/1
ababb¥abbaa][_aa`_aaaaaU`_aa`aWa[¥`_^_^
@HWI-EAS443:3:14:1025:1709#0/1
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+HWI-EAS443:3:14:1025:1709#0/1
aba`aabaab`aaaaab`_a_a^]`^`aa_`^`a_`^]
@HWI-EAS443:3:14:1052:1026#0/1
GAACGATTCTCTTGGGAATCCAGGAATGTGTAGTTGCAA
+HWI-EAS443:3:14:1052:1026#0/1
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@HWI-EAS443:3:14:105:1432#0/1
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+HWI-EAS443:3:14:105:1432#0/1
ab¥ZX`aZV`_`_T`_]_^¥a¥Z^^^_]]]]]WQXX
@HWI-EAS443:3:14:1060:948#0/1
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+HWI-EAS443:3:14:1060:948#0/1
aaaba]aX[ab`bYa^¥`_`_a`_]__Y_X]Q]^a`S`
@HWI-EAS443:3:14:1087:1074#0/1
CAGGGTCGACTTCGAGTCTGGACGGATCAAGAAAGAAGAG
+HWI-EAS443:3:14:1087:1074#0/1
aT`b`W¥a[`aab]]a_aaa`¥]aa^`_W`a`_`Za`_`a
@HWI-EAS443:3:14:1098:1540#0/1
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+HWI-EAS443:3:14:1098:1540#0/1
]S]¥Q0[_U`]SGR_Z^Y]]TKW¥RNUXUUUSWZTNSKTU

@HWI-EAS443:3:14:1145:765#0/1
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+HWI-EAS443:3:14:1145:765#0/1
aZbab`aa`aa`a`aa`^aa`XYVFU__XS_a__^_ZW¥
@HWI-EAS443:3:14:1150:334#0/1
AGCTGATTCATTTACTCCAGACACTCCAAAGCTGGGTAGC
+HWI-EAS443:3:14:1150:334#0/1
^_bb`¥Vab`a`¥H¥¥Z_ZX¥aaaa[YT^N_¥``PS_PK
@HWI-EAS443:3:14:1207:210#0/1
TCTGTTTACTGTGTCCATGGTGTATCCTGTTCCCTGTTCCA
+HWI-EAS443:3:14:1207:210#0/1
aaaa`a`a`aaQ_]`_a`aUaX^`^]_¥]_X¥^_Y]]VT
@HWI-EAS443:3:14:1220:1206#0/1
GATTGATGCCAGGGTCGACTTCGAGTCTGGACGGATCAAG
+HWI-EAS443:3:14:1220:1206#0/1
a```a]____`^^UT[a_Y^][RZ_V^WR[WX^¥TWW¥WWW
@HWI-EAS443:3:14:1237:1267#0/1
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+HWI-EAS443:3:14:1237:1267#0/1
aa]a]T]Zaaaaa[a^V`V^aY^XY`]MTT_^USXXYFW
@HWI-EAS443:3:14:1270:1851#0/1
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+HWI-EAS443:3:14:1270:1851#0/1
__bZX_^bab`baJ__^`aab`_Lb_ZWZ¥PaXaa]`VX
@HWI-EAS443:3:14:1302:1313#0/1
GGCGACCTTGAGTTAGTTTATCTACCCTTGTGTTGTTGAAC
+HWI-EAS443:3:14:1302:1313#0/1
_X_ba]¥V_a¥PZa^a]aa^a¥[¥YZWW[`Z`^^[W]V_W
@HWI-EAS443:3:14:1312:781#0/1
ATCCCTCATGGTTTGGTGCATTCACTATGAGAGCAAAT
+HWI-EAS443:3:14:1312:781#0/1
TYa`_Z^Ub¥_V^`_V^bab]baabbaXX¥K]`Zbbb_b
@HWI-EAS443:3:14:133:183#0/1
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+HWI-EAS443:3:14:133:183#0/1
`QbVLW[SP¥NKR¥]UKSY¥LER[UYYSUUT¥UUUTPTB
@HWI-EAS443:3:14:1386:652#0/1
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+HWI-EAS443:3:14:1386:652#0/1
a_]b`_babab`aa`_aa`aa`aa_a_¥``¥_`^`¥UaW^
@HWI-EAS443:3:14:1393:671#0/1
CTAACAGCTAATGAGTCAGGAAGGCTAATAGATTTCTTAA
+HWI-EAS443:3:14:1393:671#0/1
abab`a`aa_aab]a`^aab^_aa_a```_`_¥_`a[_a]]
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CTTCGAGTCTGGACGGATCAAGAAAGAAGATTCTCTGAG
+HWI-EAS443:3:14:1406:368#0/1
a]b¥_¥a^`_a`^aba`_Y]aaaaLba]a`b_a]b`ab_b
@HWI-EAS443:3:14:1423:144#0/1
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+HWI-EAS443:3:14:1423:144#0/1
aT^` [Z[Z`X_XT¥YJP]]VU^Y^UWTR^`VVSLSRRPV
@HWI-EAS443:3:14:1469:1065#0/1
CAGATTAGAGGTTTCGTATACTTTGTTGAAACTTTAGCTA
+HWI-EAS443:3:14:1469:1065#0/1
a`a`aa``Xa¥M^^`__aaaa```____Z]^U^____^U¥_
@HWI-EAS443:3:14:1486:1738#0/1
GAAGATGGTCACGCAAAGAACAATAGGGAAGAAAAACAA
+HWI-EAS443:3:14:1486:1738#0/1
a]^`_[ZPYUaX`QUKU^_^Y][MZI]Y[`S_`_]X[^
@HWI-EAS443:3:14:1541:563#0/1
CAGAAATCAACCGCAGCAACTGCATTGGCCAACACCATA
+HWI-EAS443:3:14:1541:563#0/1
abb`a`a_aa_`aa_a_]a_^a_`__`_]_RZ[] [YU_]V
@HWI-EAS443:3:14:1575:1538#0/1
AGCCCATCCCACCAGTATATTGTCTTGGTGTATTTCTTTT
+HWI-EAS443:3:14:1575:1538#0/1
aaa`]aaa_^[`ZUbX_a_aa`__aaaaUZPRa`a^_a_a
@HWI-EAS443:3:14:1576:772#0/1
AGCCTCTCTTATTCAGTCTTTGTTTTTCTTCCCTATTGT
+HWI-EAS443:3:14:1576:772#0/1
ababaab`abaababb`abaab`aaabb_ba¥]aa_aaYY
@HWI-EAS443:3:14:1628:1217#0/1
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+HWI-EAS443:3:14:1628:1217#0/1
aZbbbaaaaba_```aaaaa__ZVa_XZ`aZRR_VN_UV
@HWI-EAS443:3:14:1699:436#0/1
AAAAACAAAGACTGAATAAGAGAGGCTATCTAATAAGAGC
+HWI-EAS443:3:14:1699:436#0/1
aa[___Y]UaaR]aa^_Va_a`aZ^`_Z_RKXNZ]SYNROB
@HWI-EAS443:3:14:1720:1673#0/1
TGCCATGCTCAGGATGTTTCTGAACCACTCGGGTTGATTT
+HWI-EAS443:3:14:1720:1673#0/1
^[\`a^_I]`ZSaS^a__aU^[\`V^^QNV]TSW__W]X^
@HWI-EAS443:3:14:1757:419#0/1
CAATTGAAGAGCCATCTGGGCCGTTGCAGGTCCAAGGTCA
+HWI-EAS443:3:14:1757:419#0/1
ababababb`a`aaa`aaaa^]b_aa_Y_a[^R^[aa]]_
@HWI-EAS443:3:14:1758:1021#0/1
GATTGATGCCAGGGTCGACTTCGAGTCTGGACGGATCAAG
+HWI-EAS443:3:14:1758:1021#0/1
a`a`aa^aa][__X_YV`^¥__^_^_^__¥`]W__¥VN¥¥`
@HWI-EAS443:3:14:175:1112#0/1
GGGAAAGTGGACGACAAACACAGAGACTGGTGCACCCAG
+HWI-EAS443:3:14:175:1112#0/1
__ZHYWXV`¥YZ_U``_T_^]``Q¥T]SVSK¥¥Z^^[¥ZX
@HWI-EAS443:3:14:1788:1365#0/1
CTGGACGGATCAAGAAAGAAGAGTTCTCTGAGATCATGAA
+HWI-EAS443:3:14:1788:1365#0/1
a``a`abb`a]aaaa[Xab`aa_a_aYaaaa_a`_`a`_`

@HWI-EAS443:3:14:184:2021#0/1
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+HWI-EAS443:3:14:184:2021#0/1
abbaaaa]baba`bT^aa`aaaa`[\`aadW`a_a_a__
@HWI-EAS443:3:14:220:518#0/1
TGCATTCATGAGAGCAAAATCGTCGGATGATTGGAGC
+HWI-EAS443:3:14:220:518#0/1
`baababaaaabbabaabaaaaaaa^``a^a_a_`¥^_
@HWI-EAS443:3:14:224:1348#0/1
ATAACAATGACCTTGGACCTGCAACGGCCAGATGGCTC
+HWI-EAS443:3:14:224:1348#0/1
aa_a`a_a_`^_Y_`Y`^X__`[_][^_U]R¥]Y]WWYY
@HWI-EAS443:3:14:236:1336#0/1
TGATTCTGTAAACAATGCTGTGGTAATGCCAGCCCATGGT
+HWI-EAS443:3:14:236:1336#0/1
ab^_Q[_Ya¥aZa_ZaY]TX_[Q__U^_WUG]`a¥_^¥V
@HWI-EAS443:3:14:257:1818#0/1
GCCGTTGCAACTACACATTCCTGGATTCCCAAGAGGAATC
+HWI-EAS443:3:14:257:1818#0/1
a^ZDSaaba`aT^UZaaY¥_aYYI¥S_]Sa`_SQYIX[GV
@HWI-EAS443:3:14:293:434#0/1
AAAAACAAAGACTGAATAAGAGAGGCTATCTAATAAGAGC
+HWI-EAS443:3:14:293:434#0/1
abbaaaaaaba`a]Vaa[aab_`a_[BBBBBBBBBBBBBB
@HWI-EAS443:3:14:307:507#0/1
CTACACATTCCTGGATTCCCAAGAGGAATCGTTCTATTCT
+HWI-EAS443:3:14:307:507#0/1
aa__a_`a`aZI^XM`_a_X[`X]^[_^__OV¥YV_U]V
@HWI-EAS443:3:14:336:1472#0/1
GGGAGCTAATGGATGATGATTATCGGGGAAGACTTTGTAA
+HWI-EAS443:3:14:336:1472#0/1
]a¥V__P_aa`a`YS¥_aab[a]^X_^`W_S__YGW^
@HWI-EAS443:3:14:372:1014#0/1
CGAGAGTAAAAGAATGAAGATTGCAACACAAATACCAGCA
+HWI-EAS443:3:14:372:1014#0/1
aaaa[a_ababbaaaa`aa`a^_a_aaa`a``_aa_a`_a
@HWI-EAS443:3:14:378:1884#0/1
AATGAACCAAGTGGGTATGCACAAACAGACTGTGTTCTAG
+HWI-EAS443:3:14:378:1884#0/1
a_¥¥_```_]XXUUG`UV_^^^Y^]_ZZ^RZSVRVZVXB
@HWI-EAS443:3:14:381:969#0/1
CAGGGTGCAGTTCGAGTCTGGACGGATCAAGAAAGAAGAG
+HWI-EAS443:3:14:381:969#0/1
]aUa_S`H]a[YO[[]TX`¥_a¥a^UO[PSZ^__[Ua[X`
@HWI-EAS443:3:14:388:1049#0/1
ATGGAATCAATGAACAAAGAGGAAATAGAGATAACAACCC
+HWI-EAS443:3:14:388:1049#0/1
aabb_`aaaaabaaaaZaaabb]a`aUabba`a_aaaa`_
@HWI-EAS443:3:14:393:1570#0/1
CCTCCATCTGATACTAATAGCCCTACCTTTGATTGGGTTT

+HWI-EAS443:3:14:393:1570#0/1
a¥[`Za`_a[_]`)_`[_Y[PZ__VUZY¥[Z^]`_¥G_]`
@HWI-EAS443:3:14:421:1553#0/1
GAACAATTGAAGAGCCATCTGGGCCGTTGCAGGTCCAAGG
+HWI-EAS443:3:14:421:1553#0/1
a_` `babaabb]^aYaa`a`a`a`Ya[U^aaa`UVa`_]¥
@HWI-EAS443:3:14:455:281#0/1
TGGATGTCAATCCGACTCTACTTTTCCTAAAAATCCAGC
+HWI-EAS443:3:14:455:281#0/1
aba[bb]a^ZZKZ`__^aTa_^aR]Q^_bJ^]Wa_XV^a_
@HWI-EAS443:3:14:480:1254#0/1
AAAGAACAACATGATAAACAATGACCTTGGACCTGCAACG
+HWI-EAS443:3:14:480:1254#0/1
aa])abaa` ``a__aa` `aa` `]Y^_^a`X_W^^`_Z_
@HWI-EAS443:3:14:484:485#0/1
GAGGAAATAGAGATAACAACCCACTTTCAAAGAAAAAGGA
+HWI-EAS443:3:14:484:485#0/1
a[ba]Z_a`a_a_a_aT_`]^`a_`aaW^`^a¥]^a^Sa_^
@HWI-EAS443:3:14:48:871#0/1
GAAAAGGGAAAGTGGACGACAAACACAGAGACTGGTGCAC
+HWI-EAS443:3:14:48:871#0/1
a^ [R^`WZ_aa`S`^` `aaU`aVV__V¥¥T¥UW`WZXZX
@HWI-EAS443:3:14:506:91#0/1
TGATTATCGGGGAAGACTTTGTAATCCCCTGAATCCCCTTT
+HWI-EAS443:3:14:506:91#0/1
abaaa`aaaaa`_^a_^` `aW_`_^]_]` `]^a^SXZ^Z
@HWI-EAS443:3:14:511:1799#0/1
GTTATCTCTATTTCTCTTTGTTTCATTGATTCCATTACAT
+HWI-EAS443:3:14:511:1799#0/1
aabYbbb`aabaabbaabba`aaaaaaaa`_aaaa`a`
@HWI-EAS443:3:14:561:360#0/1
ATTAGCTGTTAGGCCATTTCGATCTAAAGACTTCTATGGTG
+HWI-EAS443:3:14:561:360#0/1
a`aab` `bVZPS][UTQ`Z^ZX¥[¥`_UVS^ZMUZ¥P^NI
@HWI-EAS443:3:14:573:1544#0/1
CAGATCTTCATGATCTCAGAGAACTTCTTTCTTGATCC
+HWI-EAS443:3:14:573:1544#0/1
a_____¥¥a][`_^_¥`_¥_Y]^a`^_^_YZ^R^_]Z]VZ
@HWI-EAS443:3:14:618:661#0/1
AAACACAGAGACTGGTGCACCCCAGCTCAACCCGATTGAT
+HWI-EAS443:3:14:618:661#0/1
WZ^_U_XH¥_aabIT]_a`]b]P`U^`]a^[K`^NYY]]T
@HWI-EAS443:3:14:627:908#0/1
ACTGACATTAATAACGATGACCAAAGATGCAGAGAGAGGC
+HWI-EAS443:3:14:627:908#0/1
aaaaaaaa`aaa`aaa`a`__`¥` `a^]__a^^`^^_[Z
@HWI-EAS443:3:14:646:2011#0/1
CAGATCTTCATGATCTCAGAGAACTTCTTTCTTGATCC
+HWI-EAS443:3:14:646:2011#0/1
ab^aa`abbaX_a`a`aaa_¥aaabaaaX`aaaa`]ZRW

@HWI-EAS443:3:14:673:1501#0/1
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+HWI-EAS443:3:14:673:1501#0/1
aa`b^a`ababaaaaba`a`Y_a`_abaa`a_aa_aa_W]
@HWI-EAS443:3:14:687:302#0/1
GCTCCCAGTAGGGGCAATGAAAAGAAGGCCAAACTGGCA
+HWI-EAS443:3:14:687:302#0/1
ab`[\`XP`¥]^`__WVXW`V`ZUWYGVZYSY__V`a[^`
@HWI-EAS443:3:14:703:935#0/1
TGAGTATTGGTGTGTTCTGTTTACTGTGTCCATGGTGTAT
+HWI-EAS443:3:14:703:935#0/1
ab`b[\`aaba]aY]^a`a`_aaa`_`^a]`^^_a`Wa[_^
@HWI-EAS443:3:14:751:1808#0/1
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+HWI-EAS443:3:14:751:1808#0/1
aaba__T¥Yaaa^[`SW`^`X`_`__O`T¥^Y_WY_]Z]^U
@HWI-EAS443:3:14:77:146#0/1
GTTCTGTTTACTGTGTCCATGGTGTATCCTGTTCCCTGTTC
+HWI-EAS443:3:14:77:146#0/1
aU__Xa]_ZYXPRL[T_ZWXVTQ]X^VW[X^XTVVWXYXW
@HWI-EAS443:3:14:805:1879#0/1
GGATGTCAATCCGACTCTACTTTTCCTAAAAATTCCAGCG
+HWI-EAS443:3:14:805:1879#0/1
`a`]\`Tabb]0]]_[\`¥Vaa`_`]\`aTZaa^`b`a[\`¥Qaa^^
@HWI-EAS443:3:14:846:867#0/1
TTAGAGGTTTCGTATACTTTGTTGAAACTTTAGCTAGGAG
+HWI-EAS443:3:14:846:867#0/1
`aY_HYV`ba`_Taa`a`_[aR[SV`¥X_U`_`^`^YUYUD
@HWI-EAS443:3:14:869:1274#0/1
GACGGATCAAGAAAGAAGAGTTCTCTGAGATCATGAAGAT
+HWI-EAS443:3:14:869:1274#0/1
`babaaV^bb_baa`abaa`Za`a`a`_aaa`_a`aa`aa`
@HWI-EAS443:3:14:871:693#0/1
CATGCTCAGGATGTTTCTGAACCACTCGGGTTGATTTCTG
+HWI-EAS443:3:14:871:693#0/1
aaaaa_aa`a`_`__a`_`__X¥^S`_a`_U]^`X`_Z`_¥
@HWI-EAS443:3:14:886:695#0/1
AATCAATGAACAAAGAGGAAATAGAGATAACAACCCACTT
+HWI-EAS443:3:14:886:695#0/1
_a`babbaa`a_a_a_a`___`Ya`a`_`a`_`a^`_¥`^`_`_`
@HWI-EAS443:3:14:94:1133#0/1
AGCCTCTCTTATTTCAGTCTTTGTTTTTTCTTCCCTATTGT
+HWI-EAS443:3:14:94:1133#0/1
QYb_babaa`bbbab^¥abb_Y^a_bbb]^`bbaaababb
@HWI-EAS443:3:14:981:1357#0/1
AAAAATTCCAGCGCAAATGCCATAAGCACCACATTCCCT
+HWI-EAS443:3:14:981:1357#0/1
a^a_Z]¥__[XY¥_`^_]¥[_____^_a_R]^`[[Y[UP^
@HWI-EAS443:3:14:991:1733#0/1
GGCTAATTTTAGCATGGAGCTACCCAGCTTTGGAGTGTCT

+HWI-EAS443:3:14:991:1733#0/1
_¥¥aaZ¥baa`aaaa__V¥^W_[[T_aRa¥a__][_¥^W`
@HWI-EAS443:3:14:992:1409#0/1
ATGGGCTCCAATCATCCGACGATTTTGCTCTCATAGTGAA
+HWI-EAS443:3:14:992:1409#0/1
ab`ab]YR_S``T`PY^a¥a]WU`a`__¥¥RZNZ]N]XY
@HWI-EAS443:3:15:1009:1294#0/1
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+HWI-EAS443:3:15:1009:1294#0/1
aabaabbbbb`ba_aaa_a`aaaa]__aaa``aYaa`aa
@HWI-EAS443:3:15:1019:246#0/1
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+HWI-EAS443:3:15:1019:246#0/1
abaaaaa```¥a`a`a__a^Z_]_]`Ua_^ZY^^]^^^
@HWI-EAS443:3:15:1023:1006#0/1
CTCTTATTGAGTCTTTGTTTTTTCTTCCCTATTGTTCTTT
+HWI-EAS443:3:15:1023:1006#0/1
^_a[¥V`a_Y_[__bbb]`bbbaaab``ab`a_[Za¥^ba
@HWI-EAS443:3:15:1044:785#0/1
GAAGATTCCGTATATTGTATAAGTTTGGTCCCTCCATCTGA
+HWI-EAS443:3:15:1044:785#0/1
abbbabaaaa_`aaaa^aaa¥^^aaa`]__a_^aa_aa`
@HWI-EAS443:3:15:1048:765#0/1
CGAAAAGCTTGAACAGTCTGGGCTCCCAGTAGGGGGCAAT
+HWI-EAS443:3:15:1048:765#0/1
aaa`a_ababb]_]`b_ab^^`]a]¥Q¥a_aaa]ab_a`a
@HWI-EAS443:3:15:1049:879#0/1
ATAGATTGCAGCACTTCTGGTACATCTGTTTCATCCTCAAG
+HWI-EAS443:3:15:1049:879#0/1
`^T^^[aba`a`Zaaaa^WLS^][[¥¥TSOQN¥[UUZ¥_
@HWI-EAS443:3:15:1177:1678#0/1
GATTCTTCAAGGAAAGCCATAGCCTCTAGAACACAGTCTG
+HWI-EAS443:3:15:1177:1678#0/1
ZVKXS^]b_SSa_aVW]``]`_OZ`Z]S`]ZYU[`aa]Y`
@HWI-EAS443:3:15:1205:185#0/1
AAGACTTCTATGGTGTGGCCAATGCAGTTGCTGCCGGTT
+HWI-EAS443:3:15:1205:185#0/1
`[`[V`_abaaaaX¥^aaa_X¥`_aa`a__Y¥`_TV``LT
@HWI-EAS443:3:15:1211:288#0/1
GAAGATGGTCACGCAAAGAACAATAGGGAAGAAAAAACA
+HWI-EAS443:3:15:1211:288#0/1
a[[^_Za¥N[Za^UU`^`aU]U`_Y_V[Q^`Z^^Y_`[`
@HWI-EAS443:3:15:121:115#0/1
GACGGATCAAGAAAGAAGAGTTCTCTGAGATCATGAAGAT
+HWI-EAS443:3:15:121:115#0/1
aaabb`_aaaa_Ya__`_aa¥^_``a``¥_¥^`a^X`^]
@HWI-EAS443:3:15:1220:1054#0/1
GAACAATTGAAGAGCCATCTGGGCCGTTGCAGGTCCAAGG
+HWI-EAS443:3:15:1220:1054#0/1
a`ab`aba`baaa_aaaa_a`a`b_aa^aa[V_X__`]

@HWI-EAS443:3:15:122:225#0/1
AAGAAATCTATTAGCCTTCCTGACTCATTAGCTGTTAGGC
+HWI-EAS443:3:15:122:225#0/1
``a`_`a`aaa`a`_`aaaaaaaa`aaa``_`_`[^X`_
@HWI-EAS443:3:15:1242:968#0/1
ATTGATGCCAGGGTCGACTTCGAGTCTGGACGGATCAAGA
+HWI-EAS443:3:15:1242:968#0/1
abb`[[aba^^¥_Ua__a`a]aaa^__a_a[aa]^Y^^P_
@HWI-EAS443:3:15:1248:732#0/1
GACTCATTAGCTGTTAGGCCATTGATCTAAAGACTTCTA
+HWI-EAS443:3:15:1248:732#0/1
aba`__aaaa_aa¥a__a`_____W__¥_`^[XUR_X^]
@HWI-EAS443:3:15:1264:636#0/1
ATTCCATGCTTTTGGCTGGACCATGGGCTGGCATTACCAC
+HWI-EAS443:3:15:1264:636#0/1
a`_U__`_aaZW_US`W[[¥]]Z_J_UY_aX0_¥ZYP¥T^
@HWI-EAS443:3:15:130:671#0/1
GAGAACTCTTCTTTCTTGATCCGTCAGACTCGAAGTCGA
+HWI-EAS443:3:15:130:671#0/1
W[H`Z`T_bT`]baR`aYaabSabNbabXaa`_YDPWP
@HWI-EAS443:3:15:1320:883#0/1
GACCAAGAAGATGGTCACGCAAAGAACAATAGGGAAGAAA
+HWI-EAS443:3:15:1320:883#0/1
_¥b_bbab`b`ba`_bbaaaaabaaaaabab`aaabbaa
@HWI-EAS443:3:15:1321:441#0/1
ATCGGGTTGAGCTGGGGTGCACCAGTCTCTGTGTTTGTGCG
+HWI-EAS443:3:15:1321:441#0/1
aaa`aa¥a[aa_aVP]a_a_`_aaa`^_Saa¥a¥a__PPX
@HWI-EAS443:3:15:1329:1786#0/1
CATGCTCAGGATGTTTCTGAACCACTCGGGTTGATTTCTG
+HWI-EAS443:3:15:1329:1786#0/1
abab`baaabbbbbabaaa]bbabaabbbb_aabbab_bb
@HWI-EAS443:3:15:1353:596#0/1
GGCTTTCCTTGAAGAATCCCACCCAGGAATATTTGAGAAT
+HWI-EAS443:3:15:1353:596#0/1
abb```babbbbbbbabba]bR_[_]abaababaaabbaa`
@HWI-EAS443:3:15:1361:570#0/1
ACCCGAGTGGTTCAGAAACATCCTGAGCATGGCACCCATA
+HWI-EAS443:3:15:1361:570#0/1
a`aaaa_ab`]Taaa`a_``___aW[U__^^]^Z_[_]`^
@HWI-EAS443:3:15:1378:1179#0/1
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+HWI-EAS443:3:15:1378:1179#0/1
a_Z¥a_VX]a]¥]aaXS`VU`aa`aaaa_a`_Y^aa^a¥U
@HWI-EAS443:3:15:1378:1998#0/1
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+HWI-EAS443:3:15:1378:1998#0/1
abbabbaabbbb`_bbbaabbaaaba`abbaa`baa_aa
@HWI-EAS443:3:15:1381:942#0/1
GAGATAACAACCCACTTTCAAAGAAAAAGGAGAGTAAGAG

+HWI-EAS443:3:15:1381:942#0/1
aaaaa`a`^0[`[a_a^_T`^H^_]Z¥Xa]aW[U`]`
@HWI-EAS443:3:15:147:1585#0/1
GTGGTAATGCCAGCCCATGGTCCAGCCAAAAGCATGGAAT
+HWI-EAS443:3:15:147:1585#0/1
a_a`Zbb__baa`aba`__ZQ`_P`_`¥¥]_aa[_¥[`_`
@HWI-EAS443:3:15:1518:459#0/1
TGTGGCTAATTTTAGCATGGAGCTACCCAGCTTTGGAGTG
+HWI-EAS443:3:15:1518:459#0/1
aaWT_¥_a^_abaZ]__]^¥YZZ[[TOW]_Z]^[[Z_¥R_
@HWI-EAS443:3:15:1536:969#0/1
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+HWI-EAS443:3:15:1536:969#0/1
^ab``bbb]`a_`_`_abb^aa`aX__a_]`_a`a`aa`a_
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+HWI-EAS443:3:15:1553:1157#0/1
aa]aaaaa^aZ_Z[]_`_]_^]]S¥_]^[R]^_VVRYX]RR
@HWI-EAS443:3:15:1611:1317#0/1
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+HWI-EAS443:3:15:1611:1317#0/1
abbaab[bbaabb`baabb`aabaa`Yaab`_U_aaa][a
@HWI-EAS443:3:15:1612:479#0/1
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+HWI-EAS443:3:15:1612:479#0/1
a`ba_aa]_aaa`aU^_aaW`_]`YYYZYV`__[_[ZZ^]
@HWI-EAS443:3:15:1631:984#0/1
GTTTACTGTGTCCATGGTGTATCCTGTTCCCTGTTCCATGG
+HWI-EAS443:3:15:1631:984#0/1
__b_a_ba]_I^`_aaa[]ZZ^U^`a^aN^_XZ^TW]__Z
@HWI-EAS443:3:15:1666:339#0/1
CACTAACTTGCAGGTCCTGTAGAATCTGTCCACTCCTGCT
+HWI-EAS443:3:15:1666:339#0/1
VXZWabb¥_bb_bbT[Zab`bba]babaYP[]L[WZ`aRa
@HWI-EAS443:3:15:1718:27#0/1
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+HWI-EAS443:3:15:1718:27#0/1
Yaa[baaa¥]aY`]Za]aT]V`^^_a]¥`_Z^[P^^R^`V
@HWI-EAS443:3:15:1738:354#0/1
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+HWI-EAS443:3:15:1738:354#0/1
^[aYYb_I[[[QTV¥U¥]_aZ_a_¥¥ZOZ`^SubZWV]MSH
@HWI-EAS443:3:15:1764:25#0/1
CAAAGACTGAATAAGAGAGGCTATCTAATAAGAGCACTGA
+HWI-EAS443:3:15:1764:25#0/1
_`^a`a`^abb`aba^a__UaaTOS]¥0`YXVQQ¥XFWW
@HWI-EAS443:3:15:1779:1402#0/1
CTGGGTGGGATTCTTCAAGGAAAGCCATAGCCTCTAGAAC
+HWI-EAS443:3:15:1779:1402#0/1
a`_b[Q_babbb`bb_bab`baaaa^abbaa_a_aaabaa

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+HWI-EAS443:3:15:193:1941#0/1
^]aa]¥PV`[_`_a`a]`aaaXZ`P`]____`¥YU_W__a]_
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GAACGATTCTCTGGGAATCCAGGAATGTGTAGTTGCAA
+HWI-EAS443:3:15:213:940#0/1
a^aaa`aaaaaaa^aaa`^aaa`a`^Z`dW`Z^`¥`^`_`_
@HWI-EAS443:3:15:222:1963#0/1
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+HWI-EAS443:3:15:222:1963#0/1
abbbabaabbbbaabbbbaabaaaa`^aaa`aa_]aa`
@HWI-EAS443:3:15:253:1405#0/1
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+HWI-EAS443:3:15:253:1405#0/1
aa^a_Z_^]]W`¥SZVVY[¥VVZ[V[XZYX[¥RMKXST]
@HWI-EAS443:3:15:310:209#0/1
AAAAATTCCAGCGCAAATGCCATAAGCACCATTCCT
+HWI-EAS443:3:15:310:209#0/1
ab]UW_aaa`__`_`^`_`¥`_`_`a^X`]Y]_^^^Z]Z]
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+HWI-EAS443:3:15:397:267#0/1
a`bbb`_abbbbaa^a`abaaa`bb`aa`a]aaba_aba
@HWI-EAS443:3:15:42:527#0/1
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+HWI-EAS443:3:15:42:527#0/1
]aa_bbbUbb`a``ba_Paaabaaa_`^`aa_aaaaa`aa^
@HWI-EAS443:3:15:447:825#0/1
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+HWI-EAS443:3:15:447:825#0/1
^`a_babbb_aTba`]P^¥a_TS[X`aaaa¥_a^]X]a¥Y
@HWI-EAS443:3:15:452:1747#0/1
GTGGGATGGGCTCCAATCATCCGACGATTTTGCTCTCATA
+HWI-EAS443:3:15:452:1747#0/1
`Yaa¥_VabVVaT^bb`¥`Va`aZQ¥aa`TUabZ^X_a`b
@HWI-EAS443:3:15:460:535#0/1
AAGAGACAACATGACCAAGAAGATGGTCACGCAAAGAACA
+HWI-EAS443:3:15:460:535#0/1
ababbbabaaa`a_aaaaa`aaa]_aJa`aa``_aa`_`_`^
@HWI-EAS443:3:15:480:1439#0/1
ACTTTTCTAAAAATTCCAGCGCAAATGCCATAAGCACC
+HWI-EAS443:3:15:480:1439#0/1
G^bbbabbbbaab¥b_babaab`¥bb^b_M]ba_Ka¥b^]
@HWI-EAS443:3:15:491:316#0/1
CTCCATCTGATACTAATAGCCCTACCTTTGATTGGGTTTG
+HWI-EAS443:3:15:491:316#0/1
abb`aa]a`¥`a[aa[aa]][[`Z[a``_a¥_aa^_`^`_R
@HWI-EAS443:3:15:559:832#0/1
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+HWI-EAS443:3:15:559:832#0/1
abaa¥_a__baaaabaaa_aaa]]a`aa`b_aa_`a_[-
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+HWI-EAS443:3:15:567:139#0/1
aabaaabb`babbba`bbbabaaaa_abaa``ba_aaa__
@HWI-EAS443:3:15:574:1368#0/1
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+HWI-EAS443:3:15:574:1368#0/1
aabbYa`a`a_a`_aa_aa`__aaa`¥a`Wa^`_^]]Z^
@HWI-EAS443:3:15:589:83#0/1
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+HWI-EAS443:3:15:589:83#0/1
aa`aaa_`_`_a_a`a`^a_`Z__`_`_aa^^^`__^Z^^
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CAACTGCATTGGCCAACACCATAGAAGTCTTTAGATCGAA
+HWI-EAS443:3:15:58:1092#0/1
a^^_babaaabba^`a`baaabbaaa^P]`a`aaa_aaaa
@HWI-EAS443:3:15:609:504#0/1
CCCCAGTGATTGTGAAAGAAATCTCTGTGTCTTGTGAATT
+HWI-EAS443:3:15:609:504#0/1
abbbbb¥babbb_baaaba`aaaaabb`aaabb^W`aaaa
@HWI-EAS443:3:15:610:1236#0/1
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+HWI-EAS443:3:15:610:1236#0/1
`a`aXX`[Ya¥Y_`a`XU¥]_[^^`_`_¥[]_]`P^YQ¥
@HWI-EAS443:3:15:717:476#0/1
CTGGCGACCTTGAGTTAGTTTATCTACCCTTGTGTTGA
+HWI-EAS443:3:15:717:476#0/1
aa_b`U`aabbaabaa[`aba`aaa^`[[`aaaabaabV^
@HWI-EAS443:3:15:731:815#0/1
GTTCGAATCTTCATTCTTTTACTCTCGAACATGTACCCTT
+HWI-EAS443:3:15:731:815#0/1
aabbba`baba^Z_baaaaaa`aa`a`a`aaa]a_a__`
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GCCTCTTTATTTCAGTCTTTGTTTTTCTTCCCTATTGTT
+HWI-EAS443:3:15:732:421#0/1
aaaaa^]abaaaZ^a_aaaab]`aaab__^OR^a^aa`_a
@HWI-EAS443:3:15:74:708#0/1
GGACGACAAACACAGAGACTGGTGCACCCAGCTCAACCC
+HWI-EAS443:3:15:74:708#0/1
aaJ¥]]^]aaaa`^^V^`_]_]R`]^Y]_¥X[`]TY`SSU
@HWI-EAS443:3:15:758:1385#0/1
ATCCAGGAATGTGTAGTTGCAACGGCATCATATTCCATGC
+HWI-EAS443:3:15:758:1385#0/1
XZb__bb`abab```SRSX`Ua]b[]`aaa__aa`aba`_
@HWI-EAS443:3:15:760:1206#0/1
CGGATTGATGCCAGGGTCGACTTCGAGTCTGGACGGATCA
+HWI-EAS443:3:15:760:1206#0/1
abb]a``_ab`_a_aaQab`]aaa`_^H`ab__[aa_Z`a

@HWI-EAS443:3:15:824:205#0/1
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+HWI-EAS443:3:15:824:205#0/1
a[aabb`a`abT__aW_b[___¥a_Q[_Y^__[Z_V_VWQN
@HWI-EAS443:3:15:825:1639#0/1
ATCCGACTCTACTTTTCCTAAAAATCCAGCGCAAATGC
+HWI-EAS443:3:15:825:1639#0/1
]babbbaabaaabaaaaabbbabaaa¥bbbaa_baaa`_a
@HWI-EAS443:3:15:825:644#0/1
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+HWI-EAS443:3:15:825:644#0/1
aaaaaa`aa^a¥aaaZa`a`a`_aa`__`a]_X[_]JXVS
@HWI-EAS443:3:15:891:1286#0/1
ATGGTGTCTAGGGCCCGATTGATGCCAGGGTCTCGACTTCG
+HWI-EAS443:3:15:891:1286#0/1
aaa_¥aQbX_X¥¥^aaaa¥`_]^]_^¥ZQS¥PY^¥]_^VY
@HWI-EAS443:3:15:898:428#0/1
AGAATCCCCTTTGGCTTGTGTTGAGAATAGAACGATTCC
+HWI-EAS443:3:15:898:428#0/1
V`]H__SY`aab]aba_W¥^aSVXW_]aaZW_WMZV_`V¥
@HWI-EAS443:3:15:901:1754#0/1
GCTAATTTTAGCATGGAGCTACCCAGCTTTGGAGTGTCTG
+HWI-EAS443:3:15:901:1754#0/1
abbb``Zb]aW_`]__XH]¥_Q^W_a_`a]Z[U`aQa]b
@HWI-EAS443:3:15:901:869#0/1
AGCTGATTCATTTACTCCAGACTCCAAAGCTGGGTAGC
+HWI-EAS443:3:15:901:869#0/1
Y¥_`b`bbb^X[bVb``^[aaaa^UXVR^]_[Y[QVR^Y
@HWI-EAS443:3:15:928:1139#0/1
GGAGAGTAAGAGACAACATGACCAAGAAGATGGTCACGCA
+HWI-EAS443:3:15:928:1139#0/1
`Z`bababa^`bbabbabaaabaaa`a`_`a`b^aabSa
@HWI-EAS443:3:15:932:1412#0/1
AGATAGCCTCTCTTATTTCAGTCTTTGTTTTTTCTCCCTA
+HWI-EAS443:3:15:932:1412#0/1
[^__Y___bbaa^`^`_`_`aabbba``aba^ab^]^aba
@HWI-EAS443:3:15:953:1027#0/1
GGCACCTATATGTGTATCTGTAGTCTTTGATGAACAATTG
+HWI-EAS443:3:15:953:1027#0/1
aaba``bbbaaa``aaaabX^_¥_aa`a]ab]Z]]aa`a
@HWI-EAS443:3:16:1020:1627#0/1
AAGAGACAACATGACCAAGAAGATGGTCACGCAAAGAACA
+HWI-EAS443:3:16:1020:1627#0/1
a^[[bbab`a`aaa_aaaa````_`_]`a`^a__V__^Z^
@HWI-EAS443:3:16:1026:472#0/1
GGCTTGTGTTGAGAATAGAACGATTCCCTCTTGGGAATCCA
+HWI-EAS443:3:16:1026:472#0/1
^a^^aZa]OYZZS]]^^`J[G^]P]OT^[^YKJY`WTLT
@HWI-EAS443:3:16:1027:166#0/1
CGCTGGAATTTTAGGAAAAGTAGAGTCGGATTGACATCC

+HWI-EAS443:3:16:1027:166#0/1
`abbbba^abbbbab¥bba^Z^^Rbabb^]aaa_`_]`a_U`
@HWI-EAS443:3:16:1052:194#0/1
GAAGAGCCATCTGGGCCGTTGCAGGTCCAAGGTCATTGTT
+HWI-EAS443:3:16:1052:194#0/1
aaa^`_`_^_]U`^`_`_aYX¥V¥`^`V^`[_¥V¥T[W_W`WW
@HWI-EAS443:3:16:1062:574#0/1
GACGGATCAAGAAAGAAGAGTTCTCTGAGATCATGAAGAT
+HWI-EAS443:3:16:1062:574#0/1
a]abaPW_` `[GVHX]TNO`TW_WRO[ZRY[OX]XJYaXV
@HWI-EAS443:3:16:106:1134#0/1
TTTGCGAAAAGCTTGAACAGTCTGGGCTCCCAGTAGGGGG
+HWI-EAS443:3:16:106:1134#0/1
aaaabaaaba`a_``aa`^`a`^`a`^`]a`a_dW_` ` ____
@HWI-EAS443:3:16:1100:618#0/1
CTCCAATCATCCGACGATTTTGCTCTCATAGTGAATGCAC
+HWI-EAS443:3:16:1100:618#0/1
^`b`^`^`a]bbba]^`^`¥aaaaaaaaaab`aX[]_[_Y
@HWI-EAS443:3:16:1139:1768#0/1
AAAAGCTTGAACAGTCTGGGCTCCCAGTAGGGGGCAATGA
+HWI-EAS443:3:16:1139:1768#0/1
aba_a_`]XX`a`aU[`^`^`a^aZa`MHO__N`X^X¥_¥
@HWI-EAS443:3:16:1165:1792#0/1
TAGAGATAACAACCCACTTTCAAAGAAAAAGGAGAGTAAG
+HWI-EAS443:3:16:1165:1792#0/1
ab^^`ba]aabbba]a`aaba`a`aa]XU`¥a`Ya_aG_`^
@HWI-EAS443:3:16:1178:1184#0/1
GAAGTACTTCAATGAATCAACAAAGAAGAAAATTGAGAAA
+HWI-EAS443:3:16:1178:1184#0/1
aaaa^aa`^`aaaa`[aa_`^`_Y`]^`_Y_]a__]_^`_
@HWI-EAS443:3:16:119:276#0/1
TCGACTTCGAGTCTGGACGGATCAAGAAAGAAGAGTTCTC
+HWI-EAS443:3:16:119:276#0/1
aabbaaaabbaVabaaaaba_`aa`^`Qaba^aa`a]`^`a`
@HWI-EAS443:3:16:1207:503#0/1
GGTCCATCAATCGGGTTGAGCTGGGGTGCACCAGTCTCTG
+HWI-EAS443:3:16:1207:503#0/1
^^_T¥[_JZ^)`a_^J[WU]VT_`aa[]¥_baVaV]a[^¥
@HWI-EAS443:3:16:1228:814#0/1
CAGGATACACCATGGACACAGTAAACAGAACACACCAATA
+HWI-EAS443:3:16:1228:814#0/1
`YI^aaa¥]aab`]a_aaa¥XYaa]`¥Ya^XQ^GU^^`Y
@HWI-EAS443:3:16:1250:1139#0/1
GAGGCTATGGCTTTCCCTTGAAGAATCCCACCCAGGAATAT
+HWI-EAS443:3:16:1250:1139#0/1
abYZaa_0^a`[a`R[Z`TZ_[[VOPY__]_^¥^WQZG]^
@HWI-EAS443:3:16:1254:629#0/1
CCAATGCAGTTGCTGCCGTTGATTTCTGTTTAATGTCCA
+HWI-EAS443:3:16:1254:629#0/1
abbaababbbbbbbaabb_b`^`aabaaa`bba`^`b¥_¥a

@HWI-EAS443:3:16:1266:1070#0/1
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+HWI-EAS443:3:16:1266:1070#0/1
aa__a^`a^___Waa__]`a^^X^Y]a__^__Y_R^YY^]
@HWI-EAS443:3:16:126:1044#0/1
GCTAATTTTAGCATGGAGCTACCCAGCTTTGGAGTGTCTG
+HWI-EAS443:3:16:126:1044#0/1
aba`_aaaaa¥]`a``_a`_a___Y___`_X_¥^Z]^`_`
@HWI-EAS443:3:16:1302:1119#0/1
TGCATACCCACTTGGTTCATTATCCTCAGGTAGTGGTCCA
+HWI-EAS443:3:16:1302:1119#0/1
ababbbb_]a_abb`^a`aab`aa_a`_`_]Z``^]`N^X_
@HWI-EAS443:3:16:1317:949#0/1
GAACAATTGAAGAGCCATCTGGGCCGTTGCAGGTCCAAGG
+HWI-EAS443:3:16:1317:949#0/1
a`¥^[S^[P^a^[a_YY[SRXSVX[[WVZU[^VRUSVVUX
@HWI-EAS443:3:16:1369:50#0/1
CAGATCTTCATGATCTCAGAGAACTCTTCTTTCTTGATCC
+HWI-EAS443:3:16:1369:50#0/1
_QQX^Xa]___^W_aY``bWavVYZ[`V[]ZWUa[_^_XH
@HWI-EAS443:3:16:1416:634#0/1
GGTGTGTTCTGTTTACTGTGTCCATGGTGTATCCTGTTCC
+HWI-EAS443:3:16:1416:634#0/1
_a]babaaaaa_aba_aa_a^`^a`_aXa]a`]]`dW^U¥
@HWI-EAS443:3:16:1443:1436#0/1
GGCATTACCACAGCATTGTTTACAGAATCAATCTCTTTAT
+HWI-EAS443:3:16:1443:1436#0/1
aa__`V`[Z][__W_]N]UP^[[T]VRW]SPWYYW]Z]Z]
@HWI-EAS443:3:16:145:1691#0/1
CTGGAGTAAATGAATCAGCTGACATGAGTATTGGAGTAAC
+HWI-EAS443:3:16:145:1691#0/1
a__^`^FQZY¥a_`bab]¥a`X¥`aa`Z`^`WU¥]^X]Y
@HWI-EAS443:3:16:1468:1674#0/1
GGGCTCCAATCATCCGACGATTTTGCTCTCATAGTGAATG
+HWI-EAS443:3:16:1468:1674#0/1
aa`^`_a_aa`a^___`Z`¥^[[Y]S___[^`^[[M`WTN[
@HWI-EAS443:3:16:1472:436#0/1
CAGAAACATCCTGAGCATGGCACCATAATGTTCTCAAAC
+HWI-EAS443:3:16:1472:436#0/1
XaZ]ab_b`X`ZW]Y`a]ba`adWYb_baaba_X]``Saa
@HWI-EAS443:3:16:1473:710#0/1
CTGAGCATGGCACCATAATGTTCTCAAACAAAATGGCAA
+HWI-EAS443:3:16:1473:710#0/1
abbbbabb`aaaa_abaaba`a_a_a`a_b_aa`a_Z___
@HWI-EAS443:3:16:1496:1052#0/1
AAAGAAATCTCTGTGTCTTGTGAATTAGTCATCATCTTTC
+HWI-EAS443:3:16:1496:1052#0/1
a`abaab`^aba¥a__aaaXa``a[W][¥_`[^``aaa_
@HWI-EAS443:3:16:1507:232#0/1
GAGACAACATGACCAAGAAGATGGTCACGCAAAGAACAAT

+HWI-EAS443:3:16:1507:232#0/1
abbbaaaa`b`_^aaaa`^a_]¥`^a^]W¥a]_^_^_
@HWI-EAS443:3:16:1512:104#0/1
GGCTATTAGTATCAGATGGAGACCAAACCTTATACAATAT
+HWI-EAS443:3:16:1512:104#0/1
abaaaabab_aa_]aY_aa[`a`YLW__S`_^X[^^_¥
@HWI-EAS443:3:16:155:1029#0/1
TTCCTGACTCATTAGCTGTTAGCCATTCGATCTAAAGAC
+HWI-EAS443:3:16:155:1029#0/1
aaabYIWaaaa`a_aaa]`Z[¥`_^¥[[UUX_^`^WX^
@HWI-EAS443:3:16:1565:607#0/1
TGAGTATTGGTGTGTTCTGTTTACTGTGTCCATGGTGTAT
+HWI-EAS443:3:16:1565:607#0/1
¥a[aPY[¥ZZRa[[`¥ZaZY_YST]WaLQ__TVT_ZRBB
@HWI-EAS443:3:16:1645:365#0/1
TTGGTCTCCATCTGATACTAATAGCCCTACCTTTGATTG
+HWI-EAS443:3:16:1645:365#0/1
abb`^`b_Vaaaa^a`aa]b`aaa_F¥^_aa]^Z^a___Y
@HWI-EAS443:3:16:167:326#0/1
ATTGGTGTGTTCTGTTTACTGTGTCCATGGTGTATCCTGT
+HWI-EAS443:3:16:167:326#0/1
abb`aWZ^]Q^`^`a_]^^[_]X^¥b]W¥a`0a[`V_]¥]Y
@HWI-EAS443:3:16:1685:475#0/1
AGAAGATGGTCACGCAAAGAACAATAGGGAAGAAAAACA
+HWI-EAS443:3:16:1685:475#0/1
abaa`a`aa^a[a¥___a^_¥_`a^a_a___`^`^`_W_
@HWI-EAS443:3:16:1706:1654#0/1
CTGGCGACCTTGAGTTAGTTTATCTACCCTGTTTGTGGA
+HWI-EAS443:3:16:1706:1654#0/1
abaa_¥NZa]]a`_PY]b_b`_____^`ZMQa___Za]]ZR
@HWI-EAS443:3:16:1722:565#0/1
GGAGTGTCTGGAGTAAATGAATCAGCTGACATGAGTATTG
+HWI-EAS443:3:16:1722:565#0/1
ab`b_a`_bbb_a_aaab_``[aaXaa_Za`___W]]^L
@HWI-EAS443:3:16:1747:712#0/1
CTTTTCATTGCCCCCTACTGGGAGCCCAGACTGTTCAAGC
+HWI-EAS443:3:16:1747:712#0/1
`ab`_`_baaba_T_Ya^]`¥`aaa`T]a`^_aaZ]^`a[
@HWI-EAS443:3:16:1765:1341#0/1
AAAAATTCCAGCGCAAATGCCATAAGCACCATTCCT
+HWI-EAS443:3:16:1765:1341#0/1
aaa]aaa_]_W]`[[[_Z^_¥^_^X_^][_XRXV_
@HWI-EAS443:3:16:191:1513#0/1
ATGTACCAGAAGTGTGCAATCTATTGAGAAATTTTCC
+HWI-EAS443:3:16:191:1513#0/1
TP^]a_aYIZHXMZ_Ubba][bWa¥Waaab^Z^`aU[^_a
@HWI-EAS443:3:16:193:674#0/1
TGGTGGGATGGGCTCCAATCATCCGACGATTTTGCTCTCA
+HWI-EAS443:3:16:193:674#0/1
abbGaba_`a]P]QX`b`___a^`_^Y_aS_[¥¥_`¥[SZ`

@HWI-EAS443:3:16:260:1831#0/1
CTTTTGTCCAAGATTCAGTATCGAGACTCCCAAGACCGTA
+HWI-EAS443:3:16:260:1831#0/1
a`a_a_]babbbba_`b`Lq]_ababaa_`a`babaaa¥a
@HWI-EAS443:3:16:269:1776#0/1
CATTTGAGTTAAAGAAGCTGTGGGATCAAACCCAATCAAA
+HWI-EAS443:3:16:269:1776#0/1
a¥VS]VVaS_``UZ`]UW]YNXW_USZ_a[ZNR`¥P¥]W[
@HWI-EAS443:3:16:296:828#0/1
TGAAGAATCCCACCCAGGAATATTTGAGAATTCATGCCTT
+HWI-EAS443:3:16:296:828#0/1
abbaa`a`_`abaaaa`aa[_`aa¥VZaaaa[aa]]_a`
@HWI-EAS443:3:16:304:195#0/1
ATCCCACCCAGGAATATTTGAGAATTCATGCCTTGAAACA
+HWI-EAS443:3:16:304:195#0/1
aaUYU¥ba¥VY`ZNZ[___aa^a___VS¥WWZX^¥^MX]]a
@HWI-EAS443:3:16:341:1713#0/1
CAAGAATCCCCTTTGGCTTGTGTTGAGAATAGAACGATT
+HWI-EAS443:3:16:341:1713#0/1
`_b`a_aaaaaaaaa^_a_[]^Y`0_¥_aP^^a[JU^0^
@HWI-EAS443:3:16:361:460#0/1
ACTGTTACTCCAATACTCATGTCAGCTGATTCATTTACTC
+HWI-EAS443:3:16:361:460#0/1
ab``Z]YYLW``]`^]a`^aU^a__¥Zaa_`¥^[_`Y`^Y_
@HWI-EAS443:3:16:376:790#0/1
GGGGCAATGAAAAGAAGCCAAACTGGCAAATGTTGTGAG
+HWI-EAS443:3:16:376:790#0/1
aaU`_WQZYWXU^^ZP¥][__Za]M``XW[aS¥WG]]`
@HWI-EAS443:3:16:403:972#0/1
AAATTCCAGCGAAAATGCCATAAGCACCACATTCCTTA
+HWI-EAS443:3:16:403:972#0/1
_`^aaabaaaa]abaa]`aaaaaaaa_a``a``a_]_``_a
@HWI-EAS443:3:16:426:1165#0/1
GGGATGGGCTCCAATCATCCGACGATTTTGCTCTCATAGT
+HWI-EAS443:3:16:426:1165#0/1
aaa`aa`ab_aaaa__^Y[`a[`b```^aaaZ_```^¥_S
@HWI-EAS443:3:16:467:1351#0/1
CTTTCCTTGAAGAATCCCACCCAGGAATATTTGAGAATTC
+HWI-EAS443:3:16:467:1351#0/1
abbaaa¥^_ba]¥baaaab`^abbaaaaa`aaa¥Z`aa^
@HWI-EAS443:3:16:499:195#0/1
GCCAGTTTGGCCTTCTTTTCATTGCCCCCTACTGGGAGCC
+HWI-EAS443:3:16:499:195#0/1
a]TZ`G`XP_Z`X^^OX_[U¥¥^¥¥ROZS¥¥XN¥¥BBBBB
@HWI-EAS443:3:16:523:1451#0/1
GCCAGGGTCGACTTCGAGTCTGGACGGATCAAGAAAGAAG
+HWI-EAS443:3:16:523:1451#0/1
aa]__aa^ab_a``XX`aZa_¥V¥_a_a[^_____aY[YR
@HWI-EAS443:3:16:548:964#0/1
GATTTCTTTCACAATCACTGGGGACAACACTAAGTGGAAT

+HWI-EAS443:3:16:548:964#0/1
_Q_aaaaaabaaaaaa_aa_[_`a`_aa`_a_aZa___`
@HWI-EAS443:3:16:570:1029#0/1
TGCCATGCTCAGGATGTTTCTGAACCACTCGGGTTGATTT
+HWI-EAS443:3:16:570:1029#0/1
a`aab`ba`a`a^U¥_[aa`a]T__`_a___]_Z`a___]^
@HWI-EAS443:3:16:572:1989#0/1
TAATGGATGATGATTATCGGGGAAGACTTTGTAATCCCCT
+HWI-EAS443:3:16:572:1989#0/1
ZaYZ`]a`X^aaaa_`Yaaaa]`_aa_[`_W]_XVW
@HWI-EAS443:3:16:591:1728#0/1
ACTTTTCCTAAAAATTCCAGCGCAAATGCCATAAGCACC
+HWI-EAS443:3:16:591:1728#0/1
_a_Za_ababa^]aa`a_a]aaaY___^¥a_a___]__aR^
@HWI-EAS443:3:16:622:1100#0/1
CCCATTTTAAGCAGACTTCAGGAATGTGAAGATTCCGTAT
+HWI-EAS443:3:16:622:1100#0/1
aba_`abb`_a`_`a_X_bbba[``^__^]aa``a``]`a
@HWI-EAS443:3:16:672:1723#0/1
TGCCAGGGTCGACTTCGAGTCTGGACGGATCAAGAAAGAA
+HWI-EAS443:3:16:672:1723#0/1
a_Y`b`a_]_bab`ba]aa`_`a^U^aaa_`a`_`aa`_aa
@HWI-EAS443:3:16:698:631#0/1
ATTAGCTGTTAGGCCATTCGATCTAAAGACTTCTATGGTG
+HWI-EAS443:3:16:698:631#0/1
`baaa`aaX`[QYP]Q[^[]TT]YS]VMQWW]LTWQ]UO[
@HWI-EAS443:3:16:712:1633#0/1
GGCACCTATATGTGTATCTGTAGTCTTTGATGAACAATTG
+HWI-EAS443:3:16:712:1633#0/1
YO¥aaa¥`aaa`]¥Zaaa^bZW¥]_`a^`a`a_aXaa_¥a
@HWI-EAS443:3:16:713:626#0/1
GAAAAATTTCTCGAATAGATTGCAGCACTTCTGGTACATC
+HWI-EAS443:3:16:713:626#0/1
aaaaaaa`__aa__`_a`__]¥_^^^`^^^^`^W`_`Y]
@HWI-EAS443:3:16:765:1353#0/1
GAACATTATGGGTGCCATGCTCAGGATGTTTCTGAACCAC
+HWI-EAS443:3:16:765:1353#0/1
abbabbbabaaaaabbbaab^aa`aaa^_abba_`aX[]J
@HWI-EAS443:3:16:768:1652#0/1
GGCAAGACTAGGGAAAGGTACATGTTTCGAGAGTAAAAGA
+HWI-EAS443:3:16:768:1652#0/1
abbbbbbbabba`abbaa`b_baba`_`Q_baba^bbbaYa
@HWI-EAS443:3:16:772:39#0/1
AGCTAATGGATGATGATTATCGGGGAAGACTTTGTAATCC
+HWI-EAS443:3:16:772:39#0/1
`baa_]aa]aa^`b[^Y]a_aa^XZWa¥^`^`^`^`^`YJT
@HWI-EAS443:3:16:784:347#0/1
CAACAAAGTATACGAAACCTCTAATCTGCATCCCAGGTGT
+HWI-EAS443:3:16:784:347#0/1
ab`aVR¥`X]S¥T]a]Q]a__[a__`YY^aZ]]`Wa_X`W

@HWI-EAS443:3:16:820:1484#0/1
GAGATAACAACCCACTTTCAAAGAAAAAGGAGAGTAAGAG
+HWI-EAS443:3:16:820:1484#0/1
a`_`a]R`¥W¥[R^^YXSG¥^Z]XQOWQVOOYQR¥[UY
@HWI-EAS443:3:16:837:1579#0/1
AAAAATTCCAGCGCAAATGCCATAAGCACCACATTC CCT
+HWI-EAS443:3:16:837:1579#0/1
^_Z[HZOZaWWUL[¥N_RYRT[_XYYZUaY¥URH]UDVBB
@HWI-EAS443:3:16:842:1118#0/1
TCCAATCATCCGACGATTTTGCTCTCATAGTGAATGCACC
+HWI-EAS443:3:16:842:1118#0/1
abaaaabbbaaab`^aaaa_a_a`_a`_a```a^__^
@HWI-EAS443:3:16:872:279#0/1
CAGGGTCGACTTCGAGTCTGGACGGATCAAGAAAGAAGAG
+HWI-EAS443:3:16:872:279#0/1
a_aaa^aaa`aaa`a`_aa__aa^^[_^aZ`_____
@HWI-EAS443:3:16:874:1438#0/1
CAGGAATATTTGAGAATTCATGCCTTGAAACAATGGAAGT
+HWI-EAS443:3:16:874:1438#0/1
¥V^babbbbaaab[a][`^a`aaYaa]_S`bb`aaaa`0
@HWI-EAS443:3:16:877:314#0/1
GTGGGATTCTTCAAGGAAAGCCATAGCCTCTAGAACACAG
+HWI-EAS443:3:16:877:314#0/1
a_aaa`aaaaa`aa``¥]Z`a_^_]`¥]`__^^^X]]
@HWI-EAS443:3:16:892:465#0/1
TGCATTCACTATGAGAGCAAATCGTCGGATGATTGGAGC
+HWI-EAS443:3:16:892:465#0/1
`babab`aaaaaab`baaa`aaa__aaa`_a_a`¥____
@HWI-EAS443:3:16:898:960#0/1
AATGACCTTGGACCTGCAACGGCCAGATGGCTCTTCAAT
+HWI-EAS443:3:16:898:960#0/1
]]abNVZ]b[ba¥Z[]^[]aTY`a`a]]^Ra`aU_a__XX
@HWI-EAS443:3:16:913:1836#0/1
GGGCTCCAATCATCCGACGATTTTGCTCTCATAGTGAATG
+HWI-EAS443:3:16:913:1836#0/1
VbbaQaaba__baaba`aa^a_[S_a`a_b_aaW___Y_
@HWI-EAS443:3:16:936:1403#0/1
TCTGTTTACTGTGTCCATGGTGTATCCTGTTCCCTGTTCCA
+HWI-EAS443:3:16:936:1403#0/1
aba`aaaa`_a¥^]`_`T_T][Z^¥_W^]]^ZW^X]Y
@HWI-EAS443:3:16:965:247#0/1
GAGAGAGGCAAGTTAAAAAGAAGGGCTATCGCAACACCTG
+HWI-EAS443:3:16:965:247#0/1
]`a^]`aaa¥V[Y`UV]_XYYVNRTUTURVTQTZVVLVYB
@HWI-EAS443:3:16:992:196#0/1
GTCCAATCATAAGTCTGGCGACCTTGAGTTAGTTTATCTA
+HWI-EAS443:3:16:992:196#0/1
a__`a`a`a```_a`_`__^X]_]Z`Y]Y_Z^^]Y]Y
@HWI-EAS443:3:17:1025:1590#0/1
CTCCCCTATGGCACCTATATGTGTATCTGTAGTCTTTGAT

+HWI-EAS443:3:17:1025:1590#0/1
aab^`aYYa]]Y^^U¥]]U_[QYYOW[aYTOTL____]WYX
@HWI-EAS443:3:17:105:623#0/1
ATGGGCTCCAATCATCCGACGATTTTGCTCTCATAGTGAA
+HWI-EAS443:3:17:105:623#0/1
_bbabaa__^a`aaa]`_`_a_]````_a`__`Y^^¥
@HWI-EAS443:3:17:1064:783#0/1
CTCCAATCATCCGACGATTTTGCTCTCATAGTGAATGCAC
+HWI-EAS443:3:17:1064:783#0/1
aab`aa`^abaa^b^a`aaa_a_aa_X_bYa`_^a¥a_
@HWI-EAS443:3:17:1073:59#0/1
GATTGATGCCAGGGTCGACTTCGAGTCTGGACGGATCAAG
+HWI-EAS443:3:17:1073:59#0/1
a`aaaa`a_^a`Ya`_^`aY`¥_WT`_^W__W¥¥¥^_
@HWI-EAS443:3:17:1095:619#0/1
GCCCTTCTTTTAACTTGCCTCTCTGCATCTTTGGTCA
+HWI-EAS443:3:17:1095:619#0/1
aa^M[]^XZX_aZQT^L[]]PZ`^^Z¥_X¥XVXG
@HWI-EAS443:3:17:1112:516#0/1
CAGAAACATCCTGAGCATGGCACCCATAATGTTCTCAAAC
+HWI-EAS443:3:17:1112:516#0/1
aaaba`babababa`aaaa`ba_aaaaaab¥a`aaa_a_
@HWI-EAS443:3:17:1117:685#0/1
GCTTGTGTTGAGAATAGAACGATTCCTCTTGGGAATCCAG
+HWI-EAS443:3:17:1117:685#0/1
a`aaa_b_ab_a]aaa^_a] []^a_W¥`_^`_W_]RZ_
@HWI-EAS443:3:17:1122:1702#0/1
GGGAGCTAATGGATGATGATTATCGGGGAAGACTTTGTAA
+HWI-EAS443:3:17:1122:1702#0/1
ab`_`aaa`aa`a^_a_aa`````_a```^_]_X¥^_V^_
@HWI-EAS443:3:17:1141:1120#0/1
GTAAGAGACAACATGACCAAGAAGATGGTCACGCAAAGAA
+HWI-EAS443:3:17:1141:1120#0/1
a`a`_`aa`a`__`_`]]`_`````^`_`Z]`_`^_]`^_]`
@HWI-EAS443:3:17:1162:904#0/1
CAAAATCGTCGGATGATTGGAGCCCATCCCACAGTATAT
+HWI-EAS443:3:17:1162:904#0/1
a`b`bb_]¥aaabab^baababaa`aaa_S[aaab[_baa
@HWI-EAS443:3:17:117:1370#0/1
CTCCAATCATCCGACGATTTTGCTCTCATAGTGAATGCAC
+HWI-EAS443:3:17:117:1370#0/1
a`_`SSZa`XTY[^^^ZVPY^Y¥[`Y¥^YULX[ZUZQZ[
@HWI-EAS443:3:17:1182:1510#0/1
TGGACGACAAACACAGAGACTGGTGCACCCCAGCTCAACC
+HWI-EAS443:3:17:1182:1510#0/1
]WJRVb^Zb^J_bb`b_a^a^`_]aPQ¥aYQ]aUUaY¥U¥
@HWI-EAS443:3:17:1218:1773#0/1
CAGATCTTCATGATCTCAGAGAACTTCTTTCTTGATCC
+HWI-EAS443:3:17:1218:1773#0/1
aaa¥X`aaaa_aa`_`_a_[____¥`]a```_`_]`_`^O_

@HWI-EAS443:3:17:1293:1743#0/1
CATCAATCGGGTTGAGCTGGGGTGCACCAGTCTCTGTGTT
+HWI-EAS443:3:17:1293:1743#0/1
a_0_b_b`__QVb`W`a^a_`^H_QUbaa]JUQUVYRWT^
@HWI-EAS443:3:17:1332:713#0/1
CAGATCTTCATGATCTCAGAGAACTCTTCTTTCTTGATCC
+HWI-EAS443:3:17:1332:713#0/1
aaaaaaaa_a`a^a^`¥^a]`^N¥a]a`__`^__]a`]WP
@HWI-EAS443:3:17:1341:834#0/1
GGCTAATTTTAGCATGGAGCTACCCAGCTTTGGAGTGTCT
+HWI-EAS443:3:17:1341:834#0/1
aaab`aaabaaa`aa`a`aa^`__^a]a^aa`ZaZa]]_
@HWI-EAS443:3:17:1356:90#0/1
AACAGATCTTCATGATCTCAGAGAACTCTTCTTTCTTGAT
+HWI-EAS443:3:17:1356:90#0/1
abaa`_a_aaaa`aa`_WY_a_a^`¥a^`_]aa^]a`_`_`
@HWI-EAS443:3:17:1362:732#0/1
GTTGATCCCACTAACTTGCAGGTCCTGTAGAATCTGTCC
+HWI-EAS443:3:17:1362:732#0/1
aaaaaaaa`[``aaa`_aa`_aa]_Za]^`````]a_^X_
@HWI-EAS443:3:17:140:600#0/1
GATTGATGCCAGGGTCGACTTCGAGTCTGGACGGATCAAG
+HWI-EAS443:3:17:140:600#0/1
`Y_WZ¥]a`_`[XUR^`[``^^ZTX[YR_]VU^XKTW]R
@HWI-EAS443:3:17:1459:810#0/1
AAAAATCCAGCGCAAATGCCATAAGCACCATTCCT
+HWI-EAS443:3:17:1459:810#0/1
a`V¥a`b`a^a_a`_]PZ`aW__`_¥aW[Y]_W]_^XOZ`
@HWI-EAS443:3:17:1460:775#0/1
GCAAAGAACAATAGGGAAGAAAAACAAAGACTGAATAAG
+HWI-EAS443:3:17:1460:775#0/1
aa`_aa`a`__b_baa__aa_]`^]a__`_^aa`_`_^`
@HWI-EAS443:3:17:1479:429#0/1
CAAAGACTACAGATACACATATAGGTGCCATAGGGGAGAC
+HWI-EAS443:3:17:1479:429#0/1
aba`a]`baaab`aa_a_baaaa`Xa`````aa`_`_`_Y
@HWI-EAS443:3:17:1514:1776#0/1
GTTGGCCAATGCAGTTGCTGCCGTTGATTTCTGTTAAT
+HWI-EAS443:3:17:1514:1776#0/1
`M]aaaa```^Z]`__Y_XR0[XS^_SZ_a_¥UF`_OQT
@HWI-EAS443:3:17:1515:1251#0/1
GAACAATTGAAGAGCCATCTGGGCCGTTGCAGGTCCAAGG
+HWI-EAS443:3:17:1515:1251#0/1
W¥[R[___¥_ab_¥^UX]_`QYWZ¥]Y`SZ]a`UYZRVaa
@HWI-EAS443:3:17:1519:591#0/1
ATCCCTCATGGTTTGGTGCATTCACTATGAGAGCAAAT
+HWI-EAS443:3:17:1519:591#0/1
aba_S_bbaabbabba[[ba`baaa]baaa`b^aRaZ]_a
@HWI-EAS443:3:17:1527:696#0/1
CAAAGAAGAAAATTGAGAAAATAAGGCCTTCTAATAGA

+HWI-EAS443:3:17:1527:696#0/1
abbbbaabbbbbbabb_bbaaaa_aabaabaabab`aa
@HWI-EAS443:3:17:1582:128#0/1
TTTGATGAACAATTGAAGAGCCATCTGGGCCGTTGCAGGT
+HWI-EAS443:3:17:1582:128#0/1
`b`_a`aa^^`aa^`^_^^^]XX^^RX^Y]UVWTWW
@HWI-EAS443:3:17:1585:251#0/1
ATGCCAGGGTCGACTTCGAGTCTGGACGGATCAAGAAAGA
+HWI-EAS443:3:17:1585:251#0/1
aaab^aa`aSR]_aaZW¥_a^____TZ^[TWU¥¥¥^_YQ^
@HWI-EAS443:3:17:1627:1482#0/1
CAGGGTCGACTTCGAGTCTGGACGGATCAAGAAAGAAGAG
+HWI-EAS443:3:17:1627:1482#0/1
ab`aaabbaabababa]bb_baab`abba`aaa[aaaa_
@HWI-EAS443:3:17:1658:732#0/1
CTATTCGAGAAATTTTTCCCTAGCAGTTCATATAGGAGAC
+HWI-EAS443:3:17:1658:732#0/1
abbaaabbbay]baaaaa`a`a^^a_```a`a```¥_^^
@HWI-EAS443:3:17:1683:928#0/1
TGCAGGTCCAAGGTCATTGTTTATCATGTTGTTCTTTATC
+HWI-EAS443:3:17:1683:928#0/1
abb_W_Z`_a¥b^OU`R`_aW]_`Y^_ZSZ_`TX[`^XXN
@HWI-EAS443:3:17:1685:1109#0/1
AAAAATTCCAGCGCAAATGCCATAAGCACCACATTCCT
+HWI-EAS443:3:17:1685:1109#0/1
a`V^TXS____Y]Z0¥____[a^W`Y_0`T`QY_W_]XWUS^
@HWI-EAS443:3:17:1707:925#0/1
GTCCTCCATCTGATACTAATAGCCCTACCTTTGATTGGGT
+HWI-EAS443:3:17:1707:925#0/1
a^Y_VXX^[RZ^T¥V[YYVJY[YRV[WRLX^]`XVUXLQM
@HWI-EAS443:3:17:170:1414#0/1
CAGGAATATTTGAGAATTCATGCCTTGAAACAATGGAAGT
+HWI-EAS443:3:17:170:1414#0/1
aa]Y_aa^abaaba¥W``baa_a_a````a`b_aaa[a`^
@HWI-EAS443:3:17:170:474#0/1
GGAATACAAGCAGGAGTGGACAGATTCTACAGGACCTGCA
+HWI-EAS443:3:17:170:474#0/1
aaa_a^Q_^[_X_WWSVW_]VRUMV^ZUNUYXUX]VVVX
@HWI-EAS443:3:17:1740:1455#0/1
TAGGGCTATTAGTATCAGATGGAGGACCAAACCTATACAA
+HWI-EAS443:3:17:1740:1455#0/1
a_Z¥`a`bbba`]`a¥a`]_aaY^¥`a`a`a^`]_Y`[_
@HWI-EAS443:3:17:1781:1442#0/1
CACCAGTATATTGTCTTGGTGTATTTCTTTTGTCCAAGAT
+HWI-EAS443:3:17:1781:1442#0/1
aaaa`b`babbab^aabb`aaWaa`b_baba_a¥]b`_aa
@HWI-EAS443:3:17:207:1158#0/1
CACTAACTTGCAGGTCCTGTAGAATCTGTCCACTCCTGCT
+HWI-EAS443:3:17:207:1158#0/1
^`aRUV¥_ORZ[_Z_b_[Y]Ua__`]^]Z]VT¥VG^aR_R

+HWI-EAS443:3:17:539:1047#0/1
a[]_]TUV^a`T^Z]a_LV^^][ZU¥MJJTLQENP[UY
@HWI-EAS443:3:17:573:1538#0/1
AAAAATTCCAGCGCAAATGCCATAAGCACCATTCCT
+HWI-EAS443:3:17:573:1538#0/1
a`Y_QTZa^¥TY_`^[¥^YW`^]_^W^^_YRWY]ZZ]YUU
@HWI-EAS443:3:17:585:403#0/1
GTGGTAATGCCAGCCCATGGTCCAGCCAAAAGCATGGAAT
+HWI-EAS443:3:17:585:403#0/1
aVa_U`^`aa_X_]SPZ`_SU^VTP_¥_¥`U_¥SQ_Q¥W
@HWI-EAS443:3:17:58:545#0/1
CCTCCATCTGATACTAATAGCCCTACCTTTGATTGGGTTT
+HWI-EAS443:3:17:58:545#0/1
ababaaaa`a`aaaa`a`aa```__`a`^`_``]_X_Y
@HWI-EAS443:3:17:624:1778#0/1
GTATTGGTGTGTTCTGTTTACTGTGTCCATGGTGTATCCT
+HWI-EAS443:3:17:624:1778#0/1
a_aaaaaW`]`_`a_[^aa_]^[[]]a__a__Q^W`^]]^
@HWI-EAS443:3:17:62:1060#0/1
CTGGTATTTGTGTTTGAATCTTCATTCTTTTACTCTCGAA
+HWI-EAS443:3:17:62:1060#0/1
aaa^R]aaa`_a`aa___`aaa`a```a`aa`a]aaa__
@HWI-EAS443:3:17:707:72#0/1
GGGTTGTATCTCTATTTCTCTTTGTTTATTGATTCCAT
+HWI-EAS443:3:17:707:72#0/1
aaaYaa_a^_[^_]```_`^¥]`^^[_^^_]_^[[ZY^^
@HWI-EAS443:3:17:70:1550#0/1
ATGCCGTTGCAACTACACATTCCTGGATCCCAAGAGGAA
+HWI-EAS443:3:17:70:1550#0/1
`S`aaaaaaaaaaaa``a``]¥¥WW]`aa[^`a[LV]
@HWI-EAS443:3:17:717:773#0/1
GATGAACAATTGAAGAGCCATCTGGGCCGTTGCAGGTCCA
+HWI-EAS443:3:17:717:773#0/1
aaab]N]]]aaaa_a_Y`a[a]a¥Z[]`_W__^]N^ZY
@HWI-EAS443:3:17:742:360#0/1
CGCAACACCTGGGATGCAGATTAGAGTTTTCGTATACTTT
+HWI-EAS443:3:17:742:360#0/1
aaa`Z¥a^b`b]ZZ_a__a[a`aaaa_VU_^^S``_¥`VV
@HWI-EAS443:3:17:809:329#0/1
ATCCGACTCTACTTTTCTAAAAATTCAGCGCAAATGC
+HWI-EAS443:3:17:809:329#0/1
`aaabaaa`aaaaaaaaabbab^aa]]ab`aaaa`_a`_
@HWI-EAS443:3:17:833:61#0/1
ACTGAATCTTGACAAAAGAAATACACCAAGACAATATAC
+HWI-EAS443:3:17:833:61#0/1
abaa¥_bbbbab`aa¥`_a`aaa`b`_```_a`^a^`a^
@HWI-EAS443:3:17:848:242#0/1
CCCATAATCATCATCCATTAGCTCCCATTTAAGCAGAC
+HWI-EAS443:3:17:848:242#0/1
aa`a]a__a_aaaaa```aa`__a_Za_____a]]^[^`_W

@HWI-EAS443:3:17:855:1100#0/1
CCCAGCTCAACCCGATTGATGGACCACTACCTGAGGATAA
+HWI-EAS443:3:17:855:1100#0/1
aabaaaaba¥aaabaabababaa_`aaaa`aa_a_aab_
@HWI-EAS443:3:17:856:905#0/1
GTTTCGTATACTTTGTTGAACTTTAGCTAGGAGCATTTG
+HWI-EAS443:3:17:856:905#0/1
_[\`a`a]aaaaa````_aa````]````_``a]¥__aX[^]__
@HWI-EAS443:3:17:961:289#0/1
CTTTATGACTGACAAAGGGATTGAGGGATTACAAAGTCT
+HWI-EAS443:3:17:961:289#0/1
`bbbaabaa_aa^a`_aa_]RZ_a_TDN[[[Z`YXPKT
@HWI-EAS443:3:17:966:1376#0/1
CCCGGATTGATGCCAGGGTCGACTTCGAGTCTGGACGGAT
+HWI-EAS443:3:17:966:1376#0/1
aba¥PW¥ab]`_]_¥aa^S^a[Xa[¥`aa^`a`Z¥¥a^_
@HWI-EAS443:3:17:985:598#0/1
ATTGGTGTGTTCTGTTTACTGTGTCCATGGTGTATCCTGT
+HWI-EAS443:3:17:985:598#0/1
abba_[bab_aaaa`baaab`aZa`_aaa]a__``````_
@HWI-EAS443:3:18:1009:1811#0/1
TAACTTGCAGGTCCTGTAGAATCTGTCCACTCCTGCTTGT
+HWI-EAS443:3:18:1009:1811#0/1
abba`a`a`a`^aa`a_a_a_a`^_U_]_a^_^]X_] [Y
@HWI-EAS443:3:18:1015:1118#0/1
AAAAATTCCAGCGCAAATGCCATAAGCACCATTCCT
+HWI-EAS443:3:18:1015:1118#0/1
aaaa```_`_____]_^_¥^^_W_]^^^`Z^ZZ^WWX
@HWI-EAS443:3:18:1027:930#0/1
CTTCGAGTCTGGACGGATCAAGAAAGAAGAGTTCTCTGAG
+HWI-EAS443:3:18:1027:930#0/1
aab]bWPTbbaaZbba]^Ua`a]Ya^_a^a`]aaaa¥a_
@HWI-EAS443:3:18:1045:1428#0/1
TGTGGCTAATTTTAGCATGGAGCTACCCAGCTTTGGAGTG
+HWI-EAS443:3:18:1045:1428#0/1
a`YOXW_a_R¥a`VWTPW¥YV[`^`_aZW[W]a^Z¥WUP^
@HWI-EAS443:3:18:1061:1185#0/1
GCTAATTTTAGCATGGAGCTACCCAGCTTTGGAGTGTCTG
+HWI-EAS443:3:18:1061:1185#0/1
aa]RRXS_RSP_RQT¥LT^[VNZQLSN¥_SRLRBBBBBBB
@HWI-EAS443:3:18:1072:1036#0/1
CAGATACACATATAGGTGCCATAGGGGAGACACAAATT
+HWI-EAS443:3:18:1072:1036#0/1
abbbabbbbbbbbbbaabb_abaababab`aaababaaaa
@HWI-EAS443:3:18:1141:906#0/1
GACGGATCAAGAAAGAAGAGTTCTCTGAGATCATGAAGAT
+HWI-EAS443:3:18:1141:906#0/1
aa_baa_abbababaaaaaZaaa`aaa`aaa`aaa__a
@HWI-EAS443:3:18:1158:273#0/1
CTCCTAGCTAAAGTTTCAACAAAGTATACGAAACCTCTAA

+HWI-EAS443:3:18:1158:273#0/1
`a`a`ab``¥ab^_a`a`_a^^^a`_]_^[]_X_``
@HWI-EAS443:3:18:1173:1520#0/1
CATTATGGGTGCCATGCTCAGGATGTTTCTGAACCACTCG
+HWI-EAS443:3:18:1173:1520#0/1
aabbababa^baaaaa_aaba__a_a_aaa_a_`_U_¥X
@HWI-EAS443:3:18:1186:1592#0/1
ATGGAATCAATGAACAAAGAGGAAATAGAGATAACAACCC
+HWI-EAS443:3:18:1186:1592#0/1
¥¥baa`_aab`_a^_aaaa¥YZ`^`aaa`````__`[[W
@HWI-EAS443:3:18:1186:507#0/1
GAACAACATGATAAACAATGACCTTGGACCTGCAACGGCC
+HWI-EAS443:3:18:1186:507#0/1
a`a`aa`_`0```_`^`_a`_`^X_]`^`^U_]`^`^]`^XX
@HWI-EAS443:3:18:1204:136#0/1
GTGCATTCACTATGAGAGCAAAATCGTCCGATGATTGGAG
+HWI-EAS443:3:18:1204:136#0/1
a`aY`aa]`_a^aa[_¥`Q`^SU¥U^UT__Y¥¥¥WWWWWY
@HWI-EAS443:3:18:1221:48#0/1
TCGACTTCGAGTCTGGACGGATCAAGAAAGAAGAGTTCTC
+HWI-EAS443:3:18:1221:48#0/1
abaa`a`_a`aaabaa_Wba^Y^_]¥^`_W^_]WaW_V`U
@HWI-EAS443:3:18:1240:1445#0/1
CTGTTTACTGTGTCCATGGTGTATCCTGTTCCCTGTTCCAT
+HWI-EAS443:3:18:1240:1445#0/1
abbaaabaa`_aab[`aaa]`]aa^a_a`aZ[a`a_]U]a
@HWI-EAS443:3:18:125:1281#0/1
GCGCTGGAATTTTTAGGAAAAGTAGAGTCCGATTGACATC
+HWI-EAS443:3:18:125:1281#0/1
a`RX`a^V]`aa[`aa`_aa_a]aaa`Sa`^X]_S_]`^]
@HWI-EAS443:3:18:1304:1550#0/1
TAGTGAATGCACCAAACCATGAGGGAATACAAGCAGGAGT
+HWI-EAS443:3:18:1304:1550#0/1
abbabaabbabaaaaa`aaaabaaaaa`aa```_a`^aY
@HWI-EAS443:3:18:130:1687#0/1
CTGGAGTAAATGAATCAGCTGACATGAGTATTGGAGTAAC
+HWI-EAS443:3:18:130:1687#0/1
aaaY[^Y¥baaZ^P]`aa`^```^`____[____^]____]`^`Z
@HWI-EAS443:3:18:1312:646#0/1
TTGTGTTGAGAATAGAACGATTCCCTCTTGGGAATCCAGGA
+HWI-EAS443:3:18:1312:646#0/1
aab]aaaaV^]_]a`a`_a`^a`_aW`_aW]_]_] [TX^`W
@HWI-EAS443:3:18:1327:1103#0/1
CTGGGATGCAGATTAGAGTTTCGTATACTTTGTTGAAAC
+HWI-EAS443:3:18:1327:1103#0/1
abb`aV_ba__`^b`Z`b_YQ¥`bXX`^`_a`a`_a`_`^V
@HWI-EAS443:3:18:1333:638#0/1
CAGGGTGCACTTCGAGTCTGGACGGATCAAGAAAGAAGAG
+HWI-EAS443:3:18:1333:638#0/1
`Q^XVfV[] [aV`_a_U_]ZaabJ^` [X]X_`]¥ZZP_^ [

@HWI-EAS443:3:18:1355:1727#0/1
CAGGAACAGGATACACCATGGACACAGTAAACAGAACACA
+HWI-EAS443:3:18:1355:1727#0/1
]bYabbbbbbbabba¥IXba`aaabab_b`bb`_baa`Z
@HWI-EAS443:3:18:1374:190#0/1
GATCCGTCCAGACTCGAAGTCGACCCTGGCATCAATCCGG
+HWI-EAS443:3:18:1374:190#0/1
`^_aZa¥`^`_`S¥N`Z^QKRSVTUPZBBBBBBBBBBBBB
@HWI-EAS443:3:18:1382:246#0/1
GATACACATATAGGTGCCATAGGGGAGACACACAAATTCA
+HWI-EAS443:3:18:1382:246#0/1
aabaYbabbbbaaaa¥a`aa_b_aa]a___Z`^___`^^`
@HWI-EAS443:3:18:1382:524#0/1
TATGACTGACAAAGGGATTGAGGGATTACAAAGTCTTCC
+HWI-EAS443:3:18:1382:524#0/1
[`¥¥^YZ_¥V]¥_¥RS[^[]Q¥X]]X]TRY`¥TRP^UZ[
@HWI-EAS443:3:18:1394:202#0/1
GAAACCTCTAATCTGCATCCCAGGTGTTGCGATAGCCCTT
+HWI-EAS443:3:18:1394:202#0/1
Y`a`a_ab[^_a_]U__`a^`aa][HW¥__W[FR]SRKX
@HWI-EAS443:3:18:1511:905#0/1
CTGGTATTTGTGTTGCAATCTTCATTCTTTTACTCTCGAA
+HWI-EAS443:3:18:1511:905#0/1
a_RQUJ[_a¥T]__OGX[¥G^LPD]UXV[STY¥ULULBBB
@HWI-EAS443:3:18:151:880#0/1
ATATGATGCCGTTGCAACTACACATTCCTGGATTCCCAAG
+HWI-EAS443:3:18:151:880#0/1
`bba^¥aab]aabbaaaaaaaaaaaa_a`^Y`Z``a_aa`_
@HWI-EAS443:3:18:1521:1268#0/1
CTTCCCTATTGTTCTTTGCGTGACCATCTTCTTGGTCATG
+HWI-EAS443:3:18:1521:1268#0/1
^abbbb`Uabb^`_`a`ab]_X¥^[aN^bbbbbaaaabb
@HWI-EAS443:3:18:1544:933#0/1
ATGGTGTCTAGGGCCCGATTGATGCCAGGGTCGACTTCG
+HWI-EAS443:3:18:1544:933#0/1
Va_`TV^aa_`a^`a`[```¥X]`¥¥`[¥`¥¥```a^[¥
@HWI-EAS443:3:18:1553:1191#0/1
GCAACACCTGGGATGCAGATTAGAGGTTTCGTATACTTTG
+HWI-EAS443:3:18:1553:1191#0/1
`^ab]bbbbab`aab`aaaaba_aba`aa`b`_aa`b`aa
@HWI-EAS443:3:18:1570:314#0/1
AAATCAACCGGCAGCAACTGCATTGGCCAACACCATAGAA
+HWI-EAS443:3:18:1570:314#0/1
aaaa_aaa_aa`a^`_[^WNU^¥X^]V]ZUZSPVVU^WV
@HWI-EAS443:3:18:1575:1019#0/1
CATTAATACGATGACCAAAGATGCAGAGAGAGGCAAGTT
+HWI-EAS443:3:18:1575:1019#0/1
abbbbbbb`abbbbaaabaaaaaaaaaab`b`a^¥`_a_a
@HWI-EAS443:3:18:1611:1338#0/1
ATCCGACTCTACTTTTCCTAAAAATTCAGCGCAAAATGC

@HWI-EAS443:3:18:349:1947#0/1
GTGGCTAATTTTAGCATGGAGCTACCCAGCTTTGGAGTGT
+HWI-EAS443:3:18:349:1947#0/1
a[aaaa_babaaa_a]a`a]Xa^a_¥a^V^^a`K_W]O¥W
@HWI-EAS443:3:18:381:1878#0/1
GACGGATCAAGAAAGAAGAGTTCTCTGAGATCATGAAGAT
+HWI-EAS443:3:18:381:1878#0/1
aa]`]HV`bbba`¥_b`a^I^^Ra`Y_`]Zaa¥_`aY`^
@HWI-EAS443:3:18:42:1361#0/1
GAATTCTCAAATATTCCTGGGTGGGATTCTTCAAGGAAAG
+HWI-EAS443:3:18:42:1361#0/1
STTTX[QYQ``]YUWYTWUaaaXX[ZZ^`]_[S^[HW
@HWI-EAS443:3:18:430:1493#0/1
CCCTACCTTTGATTGGGTTTGATCCACAGCTTCTTTAAC
+HWI-EAS443:3:18:430:1493#0/1
a^Z`^^`_Y^`_[U[Z[Z_WW¥NZa_Z]_R_¥^Z¥]]][QV
@HWI-EAS443:3:18:458:740#0/1
ATTCGATCTAAAGACTTCTATGGTGTGGCCAATGCAGTT
+HWI-EAS443:3:18:458:740#0/1
a_aaa^^`_¥[^]^_Y_]Y]YZW^^_YY^]Y]Z_ZX
@HWI-EAS443:3:18:463:1144#0/1
GTCCTCCATCTGATACTAATAGCCCTACCTTTGATTGGGT
+HWI-EAS443:3:18:463:1144#0/1
a[XXW[¥a^[G`YYWS^_¥XLLZR_OYH]^ZNVV]GXVOR
@HWI-EAS443:3:18:465:763#0/1
GATGACCAAAGATGCAGAGAGAGGCAAGTAAAAAGAAGG
+HWI-EAS443:3:18:465:763#0/1
abaa`a[a]a¥_XYb`_`_`_aa`_`Z_aX]Y[_¥a[_aO
@HWI-EAS443:3:18:490:399#0/1
GATTGATGCCAGGGTCGACTTCGAGTCTGGACGGATCAAG
+HWI-EAS443:3:18:490:399#0/1
__bb`bb]a`¥b]a`TZ]Ua_]^^Q^`_aW^]`ZX[_X
@HWI-EAS443:3:18:494:1948#0/1
ATTGATGCCAGGGTCGACTTCGAGTCTGGACGGATCAAGA
+HWI-EAS443:3:18:494:1948#0/1
P]`a^V]a¥]^WYSQLTWPRYLLZ[_]^UQYN¥[^T¥
@HWI-EAS443:3:18:494:899#0/1
AGAAGATGGTCACGCAAAGAACAATAGGGAAGAAAAACA
+HWI-EAS443:3:18:494:899#0/1
a`V^^_aaSaaY^a`a_`Wa`]]`^^`^_a]aO`a^_
@HWI-EAS443:3:18:498:1745#0/1
CGGATTGATGCCAGGGTCGACTTCGAGTCTGGACGGATCA
+HWI-EAS443:3:18:498:1745#0/1
^abb_a]]SX`^__^XG[`Ya_]WYJ[WQ_^TGH`[PRS_
@HWI-EAS443:3:18:500:566#0/1
GTTCTGTTTACTGTGTCCATGGTGTATCCTGTTCTGTTTC
+HWI-EAS443:3:18:500:566#0/1
a_a`abaaaaa_`b¥a_ZaadWa_`^_a_____¥]]`_`_`
@HWI-EAS443:3:18:501:297#0/1
GTCCTCCATCTGATACTAATAGCCCTACCTTTGATTGGGT

+HWI-EAS443:3:18:501:297#0/1
a_aaaaaaa^aa`__^`a`_a__^^^`_]`^_V`^^YVW
@HWI-EAS443:3:18:510:1457#0/1
ACTGCTAGGGAAAAATTTCTCGAATAGATTGCAGCACTTC
+HWI-EAS443:3:18:510:1457#0/1
aa]aaaY^]aaa_Y`aaa_aa`_aX^__`aa`^__``[
@HWI-EAS443:3:18:515:708#0/1
GCTTGAACAGTCTGGGCTCCCAGTAGGGGCAATGAAAAG
+HWI-EAS443:3:18:515:708#0/1
aaa[^aZOMZO¥U_¥a`_YY^PaPYXG`^M`[Q¥XS¥Y^
@HWI-EAS443:3:18:526:1127#0/1
CACTCCTGCTTGTATTCCCTCATGGTTTGGTGCATTCACT
+HWI-EAS443:3:18:526:1127#0/1
a]a`]a[aaa^__aaa`a`__^`a_]`^^R__Y`]^^Z_
@HWI-EAS443:3:18:556:751#0/1
GCTAATTTTAGCATGGAGCTACCCAGCTTTGGAGTGTCTG
+HWI-EAS443:3:18:556:751#0/1
``ZV¥^aa]YYY`VZ`_TX¥`^Y[[[T`_aV_]aR]HS[`
@HWI-EAS443:3:18:560:1689#0/1
AAAAATTCCAGCGAAAATGCCATAAGCACCACATTCCCT
+HWI-EAS443:3:18:560:1689#0/1
a`aa`_a¥[^`^_[Q^_[UZ`^[]a_]_XW¥`Z^]]]XQLQW
@HWI-EAS443:3:18:571:752#0/1
CCCAGTGATTGTGAAAGAAATCTCTGTGTCTTGTGAATTA
+HWI-EAS443:3:18:571:752#0/1
abaaa`Z`a____]_aa_¥]`_`^`a[_X[^_W[[[^]¥W
@HWI-EAS443:3:18:572:943#0/1
ACGGTCTTGGGAGTCTCGATACTGAATCTTGGACAAAAGA
+HWI-EAS443:3:18:572:943#0/1
aaaYZa_[aa_[^0_[__QTX[`_[[__¥Z^^[¥[_T__Z
@HWI-EAS443:3:18:615:1296#0/1
ATGGCTTTCCTTGAAGAATCCCACCCAGGAATATTTGAGA
+HWI-EAS443:3:18:615:1296#0/1
a_[ST`_]]][Y[^]YT`Y^]aVJYVHO¥PTT_YS_^[]^
@HWI-EAS443:3:18:638:484#0/1
GAAAGAAATCTCTGTGTCTTGTGAATTAGTCATCATCTTT
+HWI-EAS443:3:18:638:484#0/1
ababb`aabaaaba`a`abaaaPZXb]UVVaa`a¥aaa
@HWI-EAS443:3:18:699:1456#0/1
TCCCCTATGGCACCTATATGTGTATCTGTAGTCTTTGATG
+HWI-EAS443:3:18:699:1456#0/1
¥`baba`¥_aXabaaaa^a_a[[]a]a_U`]`^`a`_S`_`
@HWI-EAS443:3:18:707:2026#0/1
CGACTTCGAGTCTGGACGGATCAAGAAAGAAGAGTTCTCT
+HWI-EAS443:3:18:707:2026#0/1
`a_¥]`__aa`a`¥Wa`]`W^V`_a_a¥_X`]`_^^Y_
@HWI-EAS443:3:18:718:450#0/1
GAACAATTGAAGAGCCATCTGGGCCGTTGCAGGTCCAAGG
+HWI-EAS443:3:18:718:450#0/1
a____]_aa`Y`_aZ_^V^_X_^_]`VY`]S_WX^[]Y^]

+HWI-EAS443:3:19:1063:1261#0/1
a_`^a`_]`a^`_]aaaWZ¥`W]ZR^`_`aaSa¥Za`XMT`
@HWI-EAS443:3:19:1092:852#0/1
GTTCTGTTTACTGTGTCCATGGTGTATCCTGTTCCCTGTTC
+HWI-EAS443:3:19:1092:852#0/1
`L[`YR`QU]HVZ^OYZLPUX^F^MTYZSVSNTVPTSSUU
@HWI-EAS443:3:19:1101:342#0/1
AGATTAGAGGTTTTCGTATACTTTGTTGAACTTTAGCTAG
+HWI-EAS443:3:19:1101:342#0/1
ababbbbaab_baab`bbbaaaaaa`aa`_aaa`a¥` `Z
@HWI-EAS443:3:19:1106:1445#0/1
TTTCCTCTTTGTTTCATTGATTCCATTACATCCTTTAAGAA
+HWI-EAS443:3:19:1106:1445#0/1
a¥Y_WU¥R]WZOW`^PX_¥`^R_aa¥aba__[_`[_PXW[
@HWI-EAS443:3:19:114:239#0/1
GGGCTCCAATCATCCGACGATTTTGCTCTCATAGTGAATG
+HWI-EAS443:3:19:114:239#0/1
_abaaabbbbababababbaabbaaaaaaa`_aaa_aa`a_
@HWI-EAS443:3:19:1189:884#0/1
GCACCCATAATGTTCTCAAACAAAATGGCAAGACTAGGGA
+HWI-EAS443:3:19:1189:884#0/1
[Zbbb_aaa_¥bbb[babbb^baabb` `b_bbbb_bbXb
@HWI-EAS443:3:19:1205:938#0/1
AGCTGTAGGCCATTTCGATCTAAAGACTTCTATGGTGTG
+HWI-EAS443:3:19:1205:938#0/1
abbaa[]YX_abaa`ab`_`a^_YTP^`]`][Y]Ta[VV__
@HWI-EAS443:3:19:1231:396#0/1
ATTCAGGGGATTACAAAGTCTTCCCCGATAATCATCATCC
+HWI-EAS443:3:19:1231:396#0/1
aa]aaabbbabba^aaaa`_aaa]a^b`aU[`[_a^ZPW
@HWI-EAS443:3:19:1256:881#0/1
GGGATTCTTCAAGGAAAGCCATAGCCTCTAGAACACAGTC
+HWI-EAS443:3:19:1256:881#0/1
¥`RHVX`VW^aWV]XSZ_U`^bX]¥U^aa`]V¥`]X^QBB
@HWI-EAS443:3:19:1277:1933#0/1
GCAAAATCGTCGGATGATTGGAGCCCATCCCACCAGTATA
+HWI-EAS443:3:19:1277:1933#0/1
X_b_aa_ab[`¥`aTaa]b_a`]`^_a`]`]WYba`[V0`^Y
@HWI-EAS443:3:19:1295:1915#0/1
TGGTGTGTTCTGTTTACTGTGTCCATGGTGTATCCTGTTC
+HWI-EAS443:3:19:1295:1915#0/1
aba[aabR[Y_ZX]]bSa[_aNu`_aa`H]I_S_]`_VV[
@HWI-EAS443:3:19:1313:1417#0/1
GGGATGGGCTCCAATCATCCGACGATTTTGCTCTCATAGT
+HWI-EAS443:3:19:1313:1417#0/1
abbaabb`_a` `aaaa`_aa]b`aa` `a]a`_a` `aU
@HWI-EAS443:3:19:1425:1910#0/1
GAGATTTCTTTCACAATCACTGGGACAACACTAAGTGGA
+HWI-EAS443:3:19:1425:1910#0/1
a`Ya^[_`a_]`aY^`]0_]`^VQT¥`_` `a^aa_]`SRU

@HWI-EAS443:3:19:1475:2026#0/1
CTCCATCTGATACTAATAGCCCTACCTTTGATTGGGTTTG
+HWI-EAS443:3:19:1475:2026#0/1
a_Y_^a`]^`^]ZU```]__]^`^^W`a``TY_`_]Y_]_
@HWI-EAS443:3:19:1500:958#0/1
GGGGCAATGAAAAGAAGGCCAAACTGGCAAATGTTGTGAG
+HWI-EAS443:3:19:1500:958#0/1
aab]R`a__¥aY_aSZ_Y¥_]XWTaaa[_[VW^Ya[X_]_
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+HWI-EAS443:3:19:1502:629#0/1
aaabaZabaaabaaa_____a]__`^_aa¥^^__[XZ¥W`
@HWI-EAS443:3:19:1505:1499#0/1
GCCAGGGTTCGACTTCGAGTCTGGACGGATCAAGAAAGAAG
+HWI-EAS443:3:19:1505:1499#0/1
_¥`a^T_Zbaaab`aaaZ]abaaSaaa`_aaaaaaaa`^
@HWI-EAS443:3:19:1517:643#0/1
TGCTCAGGATGTTTCTGAACCACTCGGGTTGATTTCTGGT
+HWI-EAS443:3:19:1517:643#0/1
ab`ba`a`_aa`aa`aaa`^__a`^aa`¥a`_]__`X]a`Z
@HWI-EAS443:3:19:1547:1169#0/1
ATCAATGAACAAAGAGGAAATAGAGATAACAACCCACTTT
+HWI-EAS443:3:19:1547:1169#0/1
`abbbbaaabbbb_abaaaab][]aaaa^aa_^¥a_a`^
@HWI-EAS443:3:19:1557:602#0/1
AGCTGATTCATTTACTCCAGACTCCAAAAGCTGGGTAGC
+HWI-EAS443:3:19:1557:602#0/1
`baa`_abaaaaa`a]a_a_`_```a__`_`a__U]_^
@HWI-EAS443:3:19:1564:1485#0/1
GAGATAACAACCCACTTTCAAAGAAAAAGGAGAGTAAGAG
+HWI-EAS443:3:19:1564:1485#0/1
`aba^```aa_^RQLabaaabT``SRaZ`TZa`aXT[a`_
@HWI-EAS443:3:19:1614:199#0/1
GGTAATGCCAGCCCATGGTCCAGCCAAAAGCATGGAATAT
+HWI-EAS443:3:19:1614:199#0/1
aa^b_`a^Z_¥_XZZ[]QZU[^_VVZUW¥UG¥W¥WWWB
@HWI-EAS443:3:19:1615:1187#0/1
CAGTGATTGTGAAAGAAATCTCTGTGTCTTGTGAATTAGT
+HWI-EAS443:3:19:1615:1187#0/1
aaaa`abba_a_abbaaab[a_a``]aabaa_```_aW__
@HWI-EAS443:3:19:1659:279#0/1
GAACGATTCCTCTTGGGAATCCAGGAATGTGTAGTTGCAA
+HWI-EAS443:3:19:1659:279#0/1
aaa_a_aaU]`Y`a_^_]`ZU^a_]`^a`Z`^¥_^_`^W[Z
@HWI-EAS443:3:19:1676:451#0/1
GTTGTCCCCAGTGATTGTGAAAGAAATCTCTGTGTCTTGT
+HWI-EAS443:3:19:1676:451#0/1
aaaaa`__¥`a^a_aab^a`a`a]```¥`^__^a^Z_]VU
@HWI-EAS443:3:19:1677:410#0/1
GACGGATCAAGAAAGAAGAGTTCTCTGAGATCATGAAGAT

+HWI-EAS443:3:19:1677:410#0/1
a#P_a`Z`_`_]__]_`¥VXY¥` `__`_¥^¥T[S__XZ^BB
@HWI-EAS443:3:19:1686:1260#0/1
AAAAATTCCAGCGCAAATGCCATAAGCACCATTCCT
+HWI-EAS443:3:19:1686:1260#0/1
a^^^Z^a[[`a_¥Z¥]_] ^WYFU` ` _YT[YY[^`_]V]Z]
@HWI-EAS443:3:19:1709:972#0/1
GCTGTGGTAATGCCAGCCCATGGTCCAGCCAAAAGCATGG
+HWI-EAS443:3:19:1709:972#0/1
a_aa` `a¥aa`_^`__[[] ` ` _a¥W¥¥_WY^_¥_]U¥¥^]
@HWI-EAS443:3:19:1750:1764#0/1
AAGAAATACACCAAGACAATATACTGGTGGGATGGGCTCC
+HWI-EAS443:3:19:1750:1764#0/1
_Sabb`aba`aX_bba`J¥aba`^`aa]b^]]_] `OWPT
@HWI-EAS443:3:19:185:1166#0/1
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+HWI-EAS443:3:19:185:1166#0/1
aaaa`WXaQ` `aa]`a]`^`_` `a_] ^Y`_ZL]]WLFW¥W
@HWI-EAS443:3:19:189:1714#0/1
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+HWI-EAS443:3:19:189:1714#0/1
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@HWI-EAS443:3:19:190:390#0/1
CTCAAGAATTCCCCTTTGGCTTGTGTTGAGAATAGAACGA
+HWI-EAS443:3:19:190:390#0/1
abbabaaabaaa`abaaaaaa^]a^aa__¥`aa^a`^] ^
@HWI-EAS443:3:19:192:1245#0/1
AAGAATCCCCTTTGGCTTGTGTTGAGAATAGAACGATTC
+HWI-EAS443:3:19:192:1245#0/1
a_] ^aaba]__aa^a`_]a]_^]] ^`_a_a]a_VTX[_Y
@HWI-EAS443:3:19:217:1428#0/1
TAGTCTTTGATGAACAATTGAAGAGCCATCTGGGCCGTTG
+HWI-EAS443:3:19:217:1428#0/1
aaa_bbabbbabaaaabaaabbaaaaa^_^aa__^__
@HWI-EAS443:3:19:235:1623#0/1
CAACCCGAGTGGTTCAGAAACATCCTGAGCATGGCACCCA
+HWI-EAS443:3:19:235:1623#0/1
aa[a_PaaZGZQU_Z¥¥[`a`US[^G[[[a_VZ]_^RY]a
@HWI-EAS443:3:19:277:942#0/1
GATTGATGCCAGGGTCGACTTCGAGTCTGGACGGATCAAG
+HWI-EAS443:3:19:277:942#0/1
aaaa_a`aa^a_¥]Wa____a^a^_Y`^`_^Z^_¥¥^____
@HWI-EAS443:3:19:289:1088#0/1
GCATACCCACTTGGTTCATTATCCTCAGGTAGTGGTCCAT
+HWI-EAS443:3:19:289:1088#0/1
abbb`baa` `aaaa_aaa__` `a_a` `a`Xa__a^N]Va]
@HWI-EAS443:3:19:316:271#0/1
AAGAAATACACCAAGACAATATACTGGTGGGATGGGCTCC
+HWI-EAS443:3:19:316:271#0/1
aaa`baa`aa_aa_a`_]S_a`_^` `Z`_]¥_Z]WYW^

@HWI-EAS443:3:19:318:2037#0/1
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+HWI-EAS443:3:19:318:2037#0/1
R_¥T`bb`b`aZ_Za¥__a`aYababbaab`ba_aa_baa
@HWI-EAS443:3:19:367:1116#0/1
CTTATGGCATTGCGCTGGAATTTTAGGAAAAGTAGAG
+HWI-EAS443:3:19:367:1116#0/1
a^a_]^[Z]]_`a`aa``[a_K`__a`TZX_]Z_aaH`[Za
@HWI-EAS443:3:19:387:1893#0/1
AAAAATTCCAGCGCAAATGCCATAAGCACCATTCCT
+HWI-EAS443:3:19:387:1893#0/1
`a]]Swwaa]SaT```Y`__Y^_`^`aaZ_`^`^^_XZ^
@HWI-EAS443:3:19:444:1055#0/1
CACTGTTACTCCAATACTCATGTCAGCTGATTCATTTACT
+HWI-EAS443:3:19:444:1055#0/1
abaaaabaab_ba_baaaaa_`aaa]aba`a_`aaa^]a
@HWI-EAS443:3:19:460:1044#0/1
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+HWI-EAS443:3:19:460:1044#0/1
``bba`a`Y`ba__aaa`a_Sa_]`^`Y]Ma_aZ][[Y_Ya
@HWI-EAS443:3:19:466:1777#0/1
CAGTGCTCTTATTAGATAGCCTCTTATTAGTCTTTGT
+HWI-EAS443:3:19:466:1777#0/1
a`a_abaa`bb`baaaa_a`aa`a`aa`aaaaW__``^¥
@HWI-EAS443:3:19:496:293#0/1
GGTGTCTAGGGCCCGATTGATGCCAGGGTCGACTTCGAG
+HWI-EAS443:3:19:496:293#0/1
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@HWI-EAS443:3:19:506:744#0/1
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+HWI-EAS443:3:19:506:744#0/1
aaaa`aa`aa`b`Za^a][``Y[[aa^a`a_a]T^`aV`_
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TGGGTTTGATCCCACAGCTTCTTTAACTCAAATGATCTTC
+HWI-EAS443:3:19:514:978#0/1
^a]SV^^`^`ab¥¥ZI_^^b`aaa_Zaab_`^`^[]]QW_^
@HWI-EAS443:3:19:520:496#0/1
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+HWI-EAS443:3:19:520:496#0/1
aa`_a[aa^__a_aa`__`Ua_``]UFZW]SZBBBBBBB
@HWI-EAS443:3:19:546:1460#0/1
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+HWI-EAS443:3:19:546:1460#0/1
`]aaaaaba`aaa`^aa``aa`aX_aa__a_`aa_a^[^]
@HWI-EAS443:3:19:583:174#0/1
ATTGATGCCAGGGTCGACTTCGAGTCTGGACGGATCAAGA
+HWI-EAS443:3:19:583:174#0/1
¥¥`bbaba¥aa`aS``_U^_^Xa¥¥YTavY_`V¥Q^¥^¥
@HWI-EAS443:3:19:596:144#0/1
GATACACATATAGGTGCCATAGGGGAGACACACAAATTCA

+HWI-EAS443:3:19:596:144#0/1
_Y]X]aZ^[Y[aa_TX`_[[]T__ZN`X]¥UY[U[YSR^
@HWI-EAS443:3:19:618:922#0/1
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+HWI-EAS443:3:19:618:922#0/1
aaa`b]¥_aa¥aa`^STG^`^`^S¥`XXV^_a]QUYWT
@HWI-EAS443:3:19:664:1376#0/1
CAGATCTTCATGATCTCAGAGAACTCTTCTTTCTTGATCC
+HWI-EAS443:3:19:664:1376#0/1
aaa`aaaaaaa`a```_`a`a`a_a_a`````^`^^`__`^
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+HWI-EAS443:3:19:695:2018#0/1
MMaa`b]_Xbb`^a¥]a¥bbb`b`_`^ab`ba¥b¥`aaH
@HWI-EAS443:3:19:707:252#0/1
CAGAAATCAACCGGCAGCAACTGCATTGGCCAACACCATA
+HWI-EAS443:3:19:707:252#0/1
abbaaVa`aaabaUaab_a^V[[_`_Y_¥_W`]`]]_X_
@HWI-EAS443:3:19:719:1595#0/1
GACGGATCAAGAAAGAAGAGTTCTCTGAGATCATGAAGAT
+HWI-EAS443:3:19:719:1595#0/1
abY¥[``a]^aaab__]`b]^a___a__a]_¥^Y`b_¥a`
@HWI-EAS443:3:19:731:396#0/1
TGAATCAGCTGACATGAGTATTGGAGTAACAGTGATAAAG
+HWI-EAS443:3:19:731:396#0/1
^aZV]_a_bb^¥Z_baa`]T[H`ZaaZXaY0`Pb]Y`YUa
@HWI-EAS443:3:19:745:1487#0/1
CTTCCCTATTGTTCTTTGCGTGACCATCTTCTTGGTCATG
+HWI-EAS443:3:19:745:1487#0/1
ababbabaaba_baaaaaaa_a_]`]^`^a``aa]a_`]aa
@HWI-EAS443:3:19:748:480#0/1
GAACAATTGAAGAGCCATCTGGGCCGTTGCAGGTCCAAGG
+HWI-EAS443:3:19:748:480#0/1
aa_aaaaa^Va`X`_`_`_Y__`[[MHZ^P]^R[WUQ¥S
@HWI-EAS443:3:19:789:944#0/1
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+HWI-EAS443:3:19:789:944#0/1
_[abbaaa]abaa`aaaaa_a]¥a`aa`a_a_``a_`_
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+HWI-EAS443:3:19:820:78#0/1
a]bbbbbbZbVbbabbbbbWT_babbbbbbaba`V`Zaaa^
@HWI-EAS443:3:19:830:993#0/1
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+HWI-EAS443:3:19:830:993#0/1
aab]`aaaaaaaa`aaa]_`aa_a`_`_¥__a`_`Va^`
@HWI-EAS443:3:19:855:885#0/1
AAAGACTTCTATGGTGTGGCCAATGCAGTTGCTGCCGGT
+HWI-EAS443:3:19:855:885#0/1
¥¥_bVabaab]__aU_`a`]`_b`^aaa`Ua^P]aa¥aVO

@HWI-EAS443:3:19:934:384#0/1
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+HWI-EAS443:3:19:934:384#0/1
aaa[_Xa^_Y`_aXaXUY`_¥`¥^¥__aU]]_¥^¥_^U
@HWI-EAS443:3:19:941:1924#0/1
AAATCGTCGGATGATTGGAGCCCATCCCACAGTATATTG
+HWI-EAS443:3:19:941:1924#0/1
aT^_]XL_a`^J`^_^_]XQ^^_]^Z^]__¥]]YY]^W]]
@HWI-EAS443:3:19:995:1573#0/1
ATCCCCCTTTGGCTTGTGTTGAGAATAGAACGATTCCTCT
+HWI-EAS443:3:19:995:1573#0/1
a`_`^W_aaa]`WaY[U_] [_U_^___V_¥VUYQWXXU^¥
@HWI-EAS443:3:1:1025:841#0/1
ATCCGACTCTACTTTTCTAAAAATTCCAGCGCAAATGC
+HWI-EAS443:3:1:1025:841#0/1
]`b`b^`_aa[a`abb`abaaRZVaa``_aab_a_b^BBB
@HWI-EAS443:3:1:1027:33#0/1
ATTCGATCTAAAGACTTCTATGGTGTGGCCAATGCAGTT
+HWI-EAS443:3:1:1027:33#0/1
aaa_a_]a`_^_¥V__]_^_a¥W_]_^_YV]]]YTTBBB
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GGTGTCTAGGGCCCGGATTGATGCCAGGGTCGACTTCGAG
+HWI-EAS443:3:1:1092:1170#0/1
_a¥__`^aUa````_¥`a`a`_Za[_^S¥YZT^^P_^B
@HWI-EAS443:3:1:1102:901#0/1
TGATGAACAATTGAAGAGCCATCTGGGCCGTTGCAGGTCC
+HWI-EAS443:3:1:1102:901#0/1
abbabaa`babaaba¥a`^ab_aa``^Ya^¥`Q_``¥BB
@HWI-EAS443:3:1:1124:280#0/1
GTGTTCTGTTTACTGTGTCCATGGTGTATCCTGTTCTGT
+HWI-EAS443:3:1:1124:280#0/1
a`a`baba`aaaaZ[`¥___ba`]__^a^`` [__XYBBB
@HWI-EAS443:3:1:1131:728#0/1
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+HWI-EAS443:3:1:1131:728#0/1
abb`bb`bbb`a`a`^a¥`_aaa^^a]Yaa`_a`^X_aB
@HWI-EAS443:3:1:1246:1482#0/1
GGTCTCCATCTGATACTAATAGCCCTACCTTTGATTGGG
+HWI-EAS443:3:1:1246:1482#0/1
aa]Z[aT_aa^aa[_`__a`_`_XX^_]0`_`a`XVaBB
@HWI-EAS443:3:1:1265:707#0/1
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+HWI-EAS443:3:1:1265:707#0/1
aab`bba`baa`aabbba]aaabaaa`ab^_`a]Xa^`^B
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GTGCCATGCTCAGGATGTTTCTGAACCACTCGGGTTGATT
+HWI-EAS443:3:1:1372:777#0/1
aab]`a`aa___a_¥^`Zaa¥``__S¥_Y^ [Y^_V¥_YBB
@HWI-EAS443:3:1:1408:158#0/1
CACTAACTTGCAGTCTGTAGAATCTGTCCACTCCTGCT

+HWI-EAS443:3:1:1408:158#0/1
`_`aaa`aa_]b_L_Xaa`¥`aaaX`ZZY_SZMUZBBB
@HWI-EAS443:3:1:1487:864#0/1
ACTCTTCTTTCTTGATCCGTCAGACTCGAAGTCGACCCT
+HWI-EAS443:3:1:1487:864#0/1
a_[U`b^]baVbaa_]_[aY[Z_aa_aSa_][¥SPTUBBBB
@HWI-EAS443:3:1:1527:1312#0/1
AACAGATCTTCATGATCTCAGAGAACTCTTCTTTCTTGAT
+HWI-EAS443:3:1:1527:1312#0/1
aJ_a_¥V¥bbI`_`¥a_a_]`_a__YZa`aaXaI`BBBB
@HWI-EAS443:3:1:1549:1179#0/1
TCCCATTTTAAGCAGACTTCAGGAATGTGAAGATTCCGTA
+HWI-EAS443:3:1:1549:1179#0/1
`_a__aa[aTH^]a^V¥_¥^_aa]]`aX`_]`^`¥YV_]B
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+HWI-EAS443:3:1:1559:1180#0/1
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@HWI-EAS443:3:1:1656:596#0/1
GTTATCTCTATTTCTCTTTGTTTCATTGATTCCATTACAT
+HWI-EAS443:3:1:1656:596#0/1
a[a^a_]b`a`a`a^a^_aa`aN^__`^_aYS]____YBB
@HWI-EAS443:3:1:1681:1292#0/1
GTACCCTTCCCTAGTCTTGCCATTTTGTGTTGAGAACATT
+HWI-EAS443:3:1:1681:1292#0/1
a_bYa^aaa]]____]]W_aX¥]^`_`]]]¥_¥OUZ^OBBB
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GGGGCAATGAAAAGAAGGCCAAACTGGCAAATGTTGTGAG
+HWI-EAS443:3:1:1741:864#0/1
`JTNYY][_GPU_`W[V[^JVS]U[¥LP[JXBBBBBBBBB
@HWI-EAS443:3:1:204:1201#0/1
CAAAGAAGAAAATTGAGAAAATAAGGCCTCTTCTAATAGA
+HWI-EAS443:3:1:204:1201#0/1
ab_¥b`^[]`_`a^b`_a^_a¥b^bb^WNYZ`a^`a]aBBB
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GAGGCCTTATTTCTCAATTTTCTTCTTTGTTGATTTCATT
+HWI-EAS443:3:1:258:838#0/1
a_baaabb`bbba`baaababb_ba_bbbbaaa`a`aaa
@HWI-EAS443:3:1:409:437#0/1
CAGTAAACAGAACACACCAATACTCAGAAAAGGAAAAGTG
+HWI-EAS443:3:1:409:437#0/1
_XbbbababaaVabb¥__aababa^bbaababa]]^¥b`a
@HWI-EAS443:3:1:485:1107#0/1
AATCTGTCCACTCCTGCTTGATTCCCTCATGGTTTGGTG
+HWI-EAS443:3:1:485:1107#0/1
aaa_a`W__a____[___`_aaGaa`_Z^V]]^a^Z^BBBBB
@HWI-EAS443:3:1:511:1367#0/1
GCGCTGGAATTTTGTAGGAAAAGTAGAGTCGGATTGACATC
+HWI-EAS443:3:1:511:1367#0/1
a¥aaa`UJSba_aLa_a____`a[_aaWKZaTRZ_BBBBBB

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GGGCAATGAAAAGAAGGCCAAACTGGCAAATGTTGTGAGA
+HWI-EAS443:3:1:529:803#0/1
abb_bb`aaa`aaa^[_`^aa`^a`a`a`u]^`[aa]a__B
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+HWI-EAS443:3:1:581:508#0/1
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@HWI-EAS443:3:1:585:592#0/1
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+HWI-EAS443:3:1:585:592#0/1
a_aa`a_a^`a__`_`^`^`_Xaa`W_`__aZ^`__^X_BB
@HWI-EAS443:3:1:661:907#0/1
AGCTGATTCATTTACTCCAGACACTCCAAAGCTGGGTAGC
+HWI-EAS443:3:1:661:907#0/1
` `]^`]^`^`abb_aaa` [`WFZa][[U¥R¥__]]YN`ZBBBBB
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ATACTAATAGCCCTACCTTTGATTGGGTTTGGATCCCACAG
+HWI-EAS443:3:1:665:334#0/1
``aY`ba`ba`a[aaV^aaa` ````W_¥____]^`Ia^BB
@HWI-EAS443:3:1:698:292#0/1
TGGGCTCCAATCATCCGACGATTTTGTCTCATAGTGAAT
+HWI-EAS443:3:1:698:292#0/1
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@HWI-EAS443:3:1:713:395#0/1
CACTAACTTGCAGGTCCTGTAGAATCTGTCCACTCCTGCT
+HWI-EAS443:3:1:713:395#0/1
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GACGGATCAAGAAAGAAGAGTTCTCTGAGATCATGAAGAT
+HWI-EAS443:3:1:71:1126#0/1
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GGGAAAGGTACATGTTTCGAGAGTAAAAGAATGAAGATTC
+HWI-EAS443:3:1:768:1205#0/1
aaa`baaab¥a_a_aa_ab_bab_a^a`a]_aa__a_BBB
@HWI-EAS443:3:1:781:705#0/1
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+HWI-EAS443:3:1:781:705#0/1
a`aaa`^]a¥a_a] ` ```aZ`_a`ZW`a`^`[]`^`_O_ZB
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+HWI-EAS443:3:1:78:585#0/1
ab_W[V[Yaaa__` `^`_`YW`_`^`_¥VW`_`^`ZZ`_`¥Z_BB
@HWI-EAS443:3:1:790:693#0/1
GTGGGATCAAACCCAATCAAAGGTAGGGCTATTAGTATCA
+HWI-EAS443:3:1:790:693#0/1
a[a[aXR¥a__SW]_Z_YYY]^`_Z`^`_XW_]Z]^VZBBB
@HWI-EAS443:3:1:820:646#0/1
GTTCTGTTTACTGTGTCATGGTGTATCCTGTTCTGTTCT

+HWI-EAS443:3:1:820:646#0/1
a_aYb`_abb_aa_b___]a]¥]Mb`_a]Z`a]_^W```BB
@HWI-EAS443:3:1:838:1148#0/1
CACTGACATTAATACGATGACCAAAGATGCAGAGAGAGG
+HWI-EAS443:3:1:838:1148#0/1
abaaabaabbbb`bb_babbbbaabbbb`ba`abbaaab`
@HWI-EAS443:3:1:873:875#0/1
AAACAGAAATCAACCGGCAGCAACTGCATTGGCCAACACC
+HWI-EAS443:3:1:873:875#0/1
aaa]a`_aaa]aa^_aa¥``X___[VV[]`W^VYQVBBBB
@HWI-EAS443:3:1:898:124#0/1
GTAGGGCTATTAGTATCAGATGGAGGACCAAATTATACA
+HWI-EAS443:3:1:898:124#0/1
a^a`_a]_a^_a[_^Y_a]^``[aWW[VY^[H^Z[BBBB
@HWI-EAS443:3:1:904:1066#0/1
GACCACTACCTGAGGATAATGAACCAAGTGGGTATGCACA
+HWI-EAS443:3:1:904:1066#0/1
a`]`bbbb`abbbbabbbabbaabaa^bGabb`[_bHaaB
@HWI-EAS443:3:1:904:1313#0/1
AAAAATTCCAGCGCAAATGCCATAAGCACCATTCCT
+HWI-EAS443:3:1:904:1313#0/1
a_aa^SORRaWS]V`WaaRR]^YJW]aW_SY^UBBBBBBB
@HWI-EAS443:3:1:955:217#0/1
GACGGATCAAGAAAGAAGAGTTCTCTGAGATCATGAAGAT
+HWI-EAS443:3:1:955:217#0/1
a`^a___]^``__a_^^a^_X^VaZ`__`]^XZ^_]BBBB
@HWI-EAS443:3:20:1001:352#0/1
TGGTGTGGCCAATGCAGTTGCTGCCGTTGATTTCTGTT
+HWI-EAS443:3:20:1001:352#0/1
a`_Ya```aa`aa_a___`_`````^`_aT__Q]_^W]aW_
@HWI-EAS443:3:20:1002:740#0/1
CTTGTGTTGAGAATAGAACGATTCCTCTTGGGAATCCAGG
+HWI-EAS443:3:20:1002:740#0/1
aba_^bbaaabbab`ab`]]`ab_[`_aab`a_aa^^`a`
@HWI-EAS443:3:20:1011:794#0/1
CTATTCGAGAAATTTTTCCCTAGCAGTTCATATAGGAGAC
+HWI-EAS443:3:20:1011:794#0/1
_`_a`_a^`UR_a^____Z¥a``Z]W_dW`¥aa¥Z¥`¥Q
@HWI-EAS443:3:20:1038:601#0/1
GCACCTATATGTGTATCTGTAGTCTTTGATGAACAATTGA
+HWI-EAS443:3:20:1038:601#0/1
aV00]__WLWPN]^XLY¥WP^PW_S[RZ^VPUUWNTPLY
@HWI-EAS443:3:20:1077:721#0/1
TGGACATTAACAGAAATCAACCGGCAGCAACTGCATTGG
+HWI-EAS443:3:20:1077:721#0/1
abba`Zabbab`bbaa`aaaa^[aa]aa^_a``a^`_`_`
@HWI-EAS443:3:20:1120:1233#0/1
CGGATTGATGCCAGGGTCGACTTCGAGTCTGGACGGATCA
+HWI-EAS443:3:20:1120:1233#0/1
a__^_bbZ```bbbaaXbbaa`aabbb^aaaa`_b``a__

@HWI-EAS443:3:20:1145:797#0/1
GGCTAATTTTAGCATGGAGCTACCCAGCTTTGGAGTGTCT
+HWI-EAS443:3:20:1145:797#0/1
aa`baaaaabbbaabbbbbaaaa`a`baabbb__a^a_`a
@HWI-EAS443:3:20:1159:1304#0/1
GTATTTCTTTTGTCCAAGATTCAGTATCGAGACTCCCAAG
+HWI-EAS443:3:20:1159:1304#0/1
aYR`a]Y```_[`__`_``[W[a]_`W[]_Z_^[[ZYX[
@HWI-EAS443:3:20:1173:1141#0/1
GTAAGAGACAACATGACCAAGAAGATGGTCACGCAAAGAA
+HWI-EAS443:3:20:1173:1141#0/1
aZ]]¥YZ`_][`¥[^^_Y¥Y`VWZZ]¥VTX¥Z_^ZWZ_^X
@HWI-EAS443:3:20:1273:1749#0/1
GTTCTGTTTACTGTGTCCATGGTGTATCCTGTTCCCTGTT
+HWI-EAS443:3:20:1273:1749#0/1
Uabb``__aa_¥Z)`bbaa``Z[Zaaa^``])`PX_`PPR
@HWI-EAS443:3:20:1275:961#0/1
GCCTCTCTTATTAGTCTTTGTTTTTCTTCCCTATTGTT
+HWI-EAS443:3:20:1275:961#0/1
a`a`aaaa`aa`a`aaaa¥``aa`^`aW`_____¥W^
@HWI-EAS443:3:20:1301:575#0/1
GTTCTGTTTACTGTGTCCATGGTGTATCCTGTTCCCTGTT
+HWI-EAS443:3:20:1301:575#0/1
a`a`aa_a`_`aa_Wa¥___TUU¥U`^UWZ^TYMMU¥TUU
@HWI-EAS443:3:20:1310:1137#0/1
TCCCCAGTGATTGTGAAAGAAATCTCTGTGTCTTGTGAAT
+HWI-EAS443:3:20:1310:1137#0/1
`a`^`_`a`aaa_a][__]a`^`_`ZQ[[Z^_WZZXNQ
@HWI-EAS443:3:20:1346:1690#0/1
GAGCTAATGGATGATGATTATCGGGGAAGACTTTGTAATC
+HWI-EAS443:3:20:1346:1690#0/1
`[YX`_ZWa]_ZR^T]LZaa`V]MOSR^`¥_a[Y]UYZUO
@HWI-EAS443:3:20:1348:733#0/1
TCTAATAAGAGCACTGACATTAATACGATGACCAAAGAT
+HWI-EAS443:3:20:1348:733#0/1
a^aaaa`aWa__Y_`^a_a_`¥^`_]``____][_[^^^Z
@HWI-EAS443:3:20:1382:20#0/1
ATGGGCTCCAATCATCCGACGATTTTGCTCTCATAGTGAA
+HWI-EAS443:3:20:1382:20#0/1
a`aaabaYR]a^^a`[_`[]`^^[Z_]W^MW]¥Z^^M[V]
@HWI-EAS443:3:20:1427:1390#0/1
CAAGGAAAGCCATAGCCTCTAGAACACAGTCTGTTTGTGC
+HWI-EAS443:3:20:1427:1390#0/1
abbb`abb_aaabbaaa`^a`_`a__`aaR_aa[a`SZWV
@HWI-EAS443:3:20:1449:1849#0/1
GACAGATTCTACAGGACCTGCAAGTTAGTGGGAATCAACA
+HWI-EAS443:3:20:1449:1849#0/1
a``]aaa)`U¥_`b^]TV]a[[^¥YT_]S[a`WLZUW_X_
@HWI-EAS443:3:20:1457:882#0/1
GCTATGGCTTTCCTTGAAGAATCCCACCCAGGAATATTG

+HWI-EAS443:3:20:1457:882#0/1
`TUS[P[PYQXVMMLY[[OJQOTX¥RQOP[YVQLFMTRB
@HWI-EAS443:3:20:1479:57#0/1
ATCCTTTAAGAAATCTATTAGCCTTCCTGACTCATTAGCT
+HWI-EAS443:3:20:1479:57#0/1
aa]^abab_baaab]babbaa]^aa_]aaa_a__a`_aVa
@HWI-EAS443:3:20:1497:1233#0/1
CTAACTTGCAGGTCCTGTAGAATCTGTCCACTCCTGCTTG
+HWI-EAS443:3:20:1497:1233#0/1
[[bbbb`b`ab`Z_ba]b]abbaab]T]a^]a]S[baa
@HWI-EAS443:3:20:1509:1307#0/1
AATAAGAGCACTGACATTAAATACGATGACCAAAGATGCA
+HWI-EAS443:3:20:1509:1307#0/1
U`XT`Ua````aZ`^¥aaZYabab_abZGXUa__]a¥]^
@HWI-EAS443:3:20:1567:720#0/1
GAGTAAATGAATCAGCTGACATGAGTATTGGAGTAACAGT
+HWI-EAS443:3:20:1567:720#0/1
_a¥]^`^`^^`a^[\`a_a]Ya]J]YPWa_a`^a]_____¥X
@HWI-EAS443:3:20:1602:160#0/1
AGGGAAAAATTTCTCGAATAGATTGCAGCACTTCTGGTAC
+HWI-EAS443:3:20:1602:160#0/1
aaaaaabaaaa`_`^a^`a_a_^^_Z__X`X^^W___Z^Z
@HWI-EAS443:3:20:1604:996#0/1
ATCTAATAAGAGCACTGACATTAAATACGATGACCAAAGA
+HWI-EAS443:3:20:1604:996#0/1
abb`_abbabbab`^babaabbaaa`aab`aaa^_a``aa
@HWI-EAS443:3:20:163:468#0/1
GCGAAAAGCTTGAACAGTCTGGGCTCCCAGTAGGGGGCAA
+HWI-EAS443:3:20:163:468#0/1
aaaaaaaaUaaaa_aa¥`¥^^aa__^¥_]V^S^]T^VW_UV
@HWI-EAS443:3:20:1651:1876#0/1
ATGTTGATTCCCACTAACTTGCAGGTCCTGTAGAATCTGT
+HWI-EAS443:3:20:1651:1876#0/1
`^][M]aaa_QX^a¥`aa_]`^]`]ZN]Y]`]a[^_VSZLR
@HWI-EAS443:3:20:165:31#0/1
CAATCCGACTCTACTTTTCTAAAAATTCCAGCGCAAAAT
+HWI-EAS443:3:20:165:31#0/1
¥TL_ZY`V_ZaVOYaR`ZUOZ`W``^[¥a_T_a`]YGS]Q
@HWI-EAS443:3:20:1696:1237#0/1
TGATGCCGTTGCAACTACACATTCCTGGATTCCCAAGAGG
+HWI-EAS443:3:20:1696:1237#0/1
V¥]¥¥_ZX_aY^`_T¥_WZHV]a`¥U_aLNODPLXMHO^`
@HWI-EAS443:3:20:1706:1158#0/1
CTCCATCTGATACTAATAGCCCTACCTTTGATTGGGTTTG
+HWI-EAS443:3:20:1706:1158#0/1
Zbbbbba]abbaa`bbbbbbababba`aabbaa_ba_a_`
@HWI-EAS443:3:20:1709:1962#0/1
GGTCCCTCATCTGATACTAATAGCCCTACCTTTGATTGGG
+HWI-EAS443:3:20:1709:1962#0/1
]bMZLV00_XNPa]XaJ]a_Z¥XSRST¥ZLU`RXR¥HZZ^

@HWI-EAS443:3:20:1727:119#0/1
CTGGAGTAAATGAATCAGCTGACATGAGTATTGGAGTAAC
+HWI-EAS443:3:20:1727:119#0/1
`bb_a^b_babb`a^[\`a_aaa`\`aa_`]^aaaa¥_P]_Z
@HWI-EAS443:3:20:175:1599#0/1
AAAAGCTTGAACAGTCTGGGCTCCCAGTAGGGGGCAATGA
+HWI-EAS443:3:20:175:1599#0/1
a]aa_a^__a_a_[[___Z¥U^[___^WV[XZ_X¥^^^_UT
@HWI-EAS443:3:20:186:1119#0/1
AAGAGAGGCTATCTAATAAGAGCACTGACATTAATACGA
+HWI-EAS443:3:20:186:1119#0/1
aa`baa_`a`_ORWR¥PUSQYYXSBBBBBBBBBBBBBBB
@HWI-EAS443:3:20:193:1502#0/1
CCAGGAATATTTGAGAATTCATGCCTTGAAACAATGGAAG
+HWI-EAS443:3:20:193:1502#0/1
^bb`WS[Z[Ybb`babb_]Za^^^a`VWPZaadU`aaaW
@HWI-EAS443:3:20:206:1569#0/1
CAGAAATCAACCGCAGCAACTGCATTGGCCAACACCATA
+HWI-EAS443:3:20:206:1569#0/1
ababaaababaaaa`a_Y_RDU__N_]^V^^]Y][]YV
@HWI-EAS443:3:20:244:1934#0/1
GGGAGCTAATGGATGATGATTATCGGGGAAGACTTTGTAA
+HWI-EAS443:3:20:244:1934#0/1
^]ab]a_baabbaabb`bb`^b^]¥a_aa]`_LZYSa^aa
@HWI-EAS443:3:20:262:1496#0/1
ATTCATATGAGAGCAAAATCGTCGGATGATTGGAGCCCA
+HWI-EAS443:3:20:262:1496#0/1
aa_`_a`¥``aa_`^`aaaY`_a]¥__`Y_`^^^^^]¥^]`
@HWI-EAS443:3:20:310:779#0/1
GAGCATTTGCGAAAAGCTTGAACAGTCTGGGCTCCCAGTA
+HWI-EAS443:3:20:310:779#0/1
`abbbba`b`baaba`_abaaaaa]`a`^a_`a¥`_a¥_
@HWI-EAS443:3:20:320:850#0/1
ATTCATGCTTTTGGCTGGACCATGGGCTGGCATTACCAC
+HWI-EAS443:3:20:320:850#0/1
aaaaaa[aXW`aa`a_aa`Y`Y_VS[___]a]Y`]__ZZ^V
@HWI-EAS443:3:20:324:1951#0/1
AGTCTGGCGACCTTGAGTTAGTTTATCTACCCTTGTGT
+HWI-EAS443:3:20:324:1951#0/1
a_^a_^_a^`^`^`^]_Z^`_X]]I]^[]^V`W^ZVX[HM
@HWI-EAS443:3:20:371:1080#0/1
GAAGTACTTCAATGAATCAACAAAGAAGAAAATTGAGAAA
+HWI-EAS443:3:20:371:1080#0/1
[a¥_PaYZ¥_WR`b^Yb^^Z^`[[[]`aa`^R``]a¥a`__
@HWI-EAS443:3:20:424:1981#0/1
GATCATTTGAGTTAAAGAAGCTGTGGGATCAAACCCAATC
+HWI-EAS443:3:20:424:1981#0/1
abbb`]_baa]]abbb`bbaa`T`_adWWa`a0a[a`¥_
@HWI-EAS443:3:20:460:642#0/1
GGCACCCATAATGTTCTCAAACAAAATGGCAAGACTAGGG

+HWI-EAS443:3:20:460:642#0/1
^_aab_a`aba_a`aa_aaaa_a_]_aa_aS_`X]Z` `a]
@HWI-EAS443:3:20:508:250#0/1
AAACAATGCTGTGGTAATGCCAGCCCATGGTCCAGCCAAA
+HWI-EAS443:3:20:508:250#0/1
aUa`aa_]__a]__T_]LY¥_^]]Z¥_]^UXZXXUU^UX
@HWI-EAS443:3:20:518:926#0/1
CAAAGAAGAAAATTGAGAAAATAAGGCCTCTTCTAATAGA
+HWI-EAS443:3:20:518:926#0/1
a`_Ua`__aa`aaaa`aa`^^`a`^^`__aaaa`_¥_
@HWI-EAS443:3:20:529:993#0/1
ATCTGCATCCCAGGTGTTGCGATAGCCCTTCTTTTAACT
+HWI-EAS443:3:20:529:993#0/1
``a`aaaa`a`YV][a`^^a_a`a`_`^`^`^`a`_`_Z
@HWI-EAS443:3:20:548:1288#0/1
CAAAGATGCAGAGAGAGGCAAGTTAAAAAGAAGGGCTATC
+HWI-EAS443:3:20:548:1288#0/1
`b`bbb`baaa[^aaa`aaaa^Za^a^`a`_`a`_`a`_`_¥_
@HWI-EAS443:3:20:619:1614#0/1
GTCCTCCATCTGATACTAATAGCCCTACCTTTGATTGGGT
+HWI-EAS443:3:20:619:1614#0/1
`_b^S^I]Y`¥Q_]^[^^a`a[YaY^_ZYa`YVY]V__Z^
@HWI-EAS443:3:20:654:1219#0/1
TTTACTGTGTCCATGGTGTATCCTGTTCCCTGTTCCATGGC
+HWI-EAS443:3:20:654:1219#0/1
a`a`aa__a_aa`aa`Ha_aa`aa^_a`_`_`a_]`_V_
@HWI-EAS443:3:20:692:936#0/1
CAAGAAGATGGTCACGCAAAGAACAATAGGGAAGAAAAA
+HWI-EAS443:3:20:692:936#0/1
a^a]¥SaT_Z¥Y^aaaa_aYb_a]]^a`aaaa_a`a^a^a
@HWI-EAS443:3:20:696:807#0/1
CCCGGATTGATGCCAGGGTCGACTTCGAGTCTGGACGGAT
+HWI-EAS443:3:20:696:807#0/1
¥_]XQW]ZNT]__`¥OYIQX`¥OFXY[[]YZ]YSZUZ]XP
@HWI-EAS443:3:20:702:365#0/1
CTGGGATGCAGATTAGAGGTTTCGTATACTTTGTTGAAAC
+HWI-EAS443:3:20:702:365#0/1
Ya^_^¥a^a`_¥]`bab`aZ`Q_Za¥_^¥_`^bY`]a]]I
@HWI-EAS443:3:20:707:100#0/1
AACCTCTAATCTGCATCCCAGGTGTTGCGATAGCCCTTCT
+HWI-EAS443:3:20:707:100#0/1
abaabaabaaaaaaaaaaaa_aaUaaa_]a]^_`^Y]¥^Y]
@HWI-EAS443:3:20:728:2032#0/1
AAATCGTCGGATGATTGGAGCCCATCCCACAGTATATTG
+HWI-EAS443:3:20:728:2032#0/1
`]Z_`^^`^`a[¥]^_¥QZZ_`_____]W_Y^N_]Y]ZU
@HWI-EAS443:3:20:730:296#0/1
ATACTAATAGCCCTACCTTTGATTGGGTTTGTATCCCACAG
+HWI-EAS443:3:20:730:296#0/1
aaaaaaaa]a`_`a_a^]`aa^^]^_^^]]`__XXV^^^

@HWI-EAS443:3:20:772:774#0/1
CACTAACTTGCAGGTCCTGTAGAATCTGTCCACTCCTGCT
+HWI-EAS443:3:20:772:774#0/1
ab`abaaa````a`_aaaa_a```a`a¥^[¥`U^_]]U_
@HWI-EAS443:3:20:773:996#0/1
TGATGACTAATTCACAAGACACAGAGATTTCTTTCACAAT
+HWI-EAS443:3:20:773:996#0/1
]`a_¥a_ab_aaaaaa`a`aaaa_a`a^_¥a`aa`aaa__
@HWI-EAS443:3:20:802:952#0/1
GCAGGTCCAAGGTCATTGTTTATCATGTTGTTCTTTATCA
+HWI-EAS443:3:20:802:952#0/1
aaaaa]aa```^F^_aaa^`aa`Z^``^^]]`[__^]¥X[
@HWI-EAS443:3:20:831:912#0/1
TGGCACCTATATGTGTATCTGTAGTCTTTGATGAACAATT
+HWI-EAS443:3:20:831:912#0/1
_ab]`aaab`aaZZ^L`_Ta_TVa^_aaa_a_`_]¥_a[V
@HWI-EAS443:3:20:835:126#0/1
CTTCTTTTCATTGCCCCCTACTGGGAGCCCAGACTGTTCA
+HWI-EAS443:3:20:835:126#0/1
`a_abbba_bbbabaabbb`bbbbb`aaabaQab_a__
@HWI-EAS443:3:20:889:1377#0/1
CGTCGGATGATTGGAGCCCATCCCACCAGTATATTGTCTT
+HWI-EAS443:3:20:889:1377#0/1
aa__[]ZSX¥_]W]^`a__^R^^_[_V^`ZZ^^]Z^Z
@HWI-EAS443:3:20:889:1695#0/1
GGCCATGGTGTCTAGGGCCCGATTGATGCCAGGGTCGAC
+HWI-EAS443:3:20:889:1695#0/1
_[aaa_ZWS¥JMV¥```_¥`__¥X^]Z`¥aZ^]Z¥KP¥ZZ
@HWI-EAS443:3:20:889:2035#0/1
GAACAAAGAGGAAATAGAGATAACAACCCACTTTCAAAGA
+HWI-EAS443:3:20:889:2035#0/1
aba`aa[a_aa^aabbabaaaabaaaaaa````a`_`^^
@HWI-EAS443:3:20:889:81#0/1
GAGATAACAACCCACTTTCAAAGAAAAAGGAGAGTAAGAG
+HWI-EAS443:3:20:889:81#0/1
aaa__PTY]^]^_¥V_]__X^N^UWXIZ¥_XaZ^UXW^V]
@HWI-EAS443:3:20:890:503#0/1
TTTCTTCCCTATTGTTCTTTGCGTGACCATCTTCTTGCTC
+HWI-EAS443:3:20:890:503#0/1
Y`_aa]a`_`V¥aaQY``^ZVUaW_T_S]a]aaGW]Ya¥_
@HWI-EAS443:3:20:898:724#0/1
ATTAATACGATGACCAAAGATGCAGAGAGAGGCAAGTTA
+HWI-EAS443:3:20:898:724#0/1
aabbaaaaaababaaaaa]^`^a`aaa`a```a_a_a_aU¥`
@HWI-EAS443:3:20:901:959#0/1
ATTGAAGAGCCATCTGGGCCGTTGCAGGTCCAAGGTCATT
+HWI-EAS443:3:20:901:959#0/1
[bY_T_T[aba^`a[QV__QUPa`_ZaZUa`[[`MWV[[
@HWI-EAS443:3:20:924:662#0/1
GTTGTCCCCAGTGATTGTGAAAGAAATCTCTGTGTCTTGT

+HWI-EAS443:3:20:924:662#0/1
``aa^aa`_^`^a`_`aS`_`^`_`^`^`^`^]]`W^Y^_]UW
@HWI-EAS443:3:20:943:160#0/1
GGTGTCTAGGGCCCGATTGATGCCAGGGTCGACTTCGAG
+HWI-EAS443:3:20:943:160#0/1
`YD^^a]a`aa[Z_aaW_`]]`¥a[SW¥a_TV]TSX_S`^`_
@HWI-EAS443:3:20:951:1045#0/1
GCACCCAGCTCAACCCGATTGATGGACCACTACCTGAGG
+HWI-EAS443:3:20:951:1045#0/1
aaaabbaa^_a`^a`_a_aaaaaa`V`X]]`_`^`a`V[^
@HWI-EAS443:3:20:962:1987#0/1
GAACAATTGAAGAGCCATCTGGGCCGTTGCAGGTCCAAGG
+HWI-EAS443:3:20:962:1987#0/1
aaaabba`aaa_aaaaa`a``¥`_`_`^`^U`^XZ]¥Z_]`
@HWI-EAS443:3:20:997:1664#0/1
GCCATGGTGTCTAGGGCCCGATTGATGCCAGGGTCGACT
+HWI-EAS443:3:20:997:1664#0/1
a`^aa`_Z`]]`^`¥^`_`a`_`^`^`¥^U]^¥]^¥ZP¥]ZT¥
@HWI-EAS443:3:21:1040:1643#0/1
ATACCATGGACACAGTAAACAGAACACACCAATACTCA
+HWI-EAS443:3:21:1040:1643#0/1
`T^`_XUY`^PZ`_GLX^]ZZ]^X¥¥S_S[UV¥]XZUTS^
@HWI-EAS443:3:21:1064:984#0/1
TGCAGTCTGTAGAATCTGTCCACTCCTGCTTGTATTCC
+HWI-EAS443:3:21:1064:984#0/1
V`_Sa¥aXZa^b`aa_aaa¥]JXaU¥a_Zaa__N]U__^]
@HWI-EAS443:3:21:1072:1013#0/1
CAATTGAAGAGCCATCTGGGCCGTTGCAGGTCCAAGGTCA
+HWI-EAS443:3:21:1072:1013#0/1
a[a`b]X¥`_`baa_bab`_`b^¥`[U`¥Wa`XV_]PTX
@HWI-EAS443:3:21:1082:357#0/1
ATCATCATCCATTAGCTCCCATTTTAAAGCAGACTTCAGGA
+HWI-EAS443:3:21:1082:357#0/1
Vba^aabaaVaXaXU¥b^IS_¥]_abaa]aaYYU_^_¥_T
@HWI-EAS443:3:21:1108:143#0/1
GTTTGGTGCATTCACTATGAGAGCAAATCGTCGGATGAT
+HWI-EAS443:3:21:1108:143#0/1
aaaaaa^aa`aa`a_a_aa_a_a`^`_`_Y]]_]`^]V_¥^
@HWI-EAS443:3:21:1139:810#0/1
AGACACTCCAAAGCTGGGTAGCTCCATGCTAAAATTAGCC
+HWI-EAS443:3:21:1139:810#0/1
aaa_a`_`_`a`]_]`X__W`^[_]Z`^[^^^^^W¥
@HWI-EAS443:3:21:1144:99#0/1
ACTACACATTCCTGGATTCCCAAGAGGAATCGTTCTATTC
+HWI-EAS443:3:21:1144:99#0/1
a`^a`a_aa_a¥^a_WaaZZ¥[_a]¥]¥G]^U^]^[U
@HWI-EAS443:3:21:1170:1256#0/1
AAGAGCCATCTGGGCCGTTGCAGGTCCAAGGTCAATTGTTT
+HWI-EAS443:3:21:1170:1256#0/1
a`aaa[a^¥aa_¥SX_a]WY¥`_`[G]N_]`_X^_Q]aRV]

@HWI-EAS443:3:21:1182:1866#0/1
GTCCACTCCTGCTTGTATTCCCTCATGGTTTGGTGCATTC
+HWI-EAS443:3:21:1182:1866#0/1
a__a`R_`a^X^`_a^a[Z]]T]X_aaZ¥_]Y]W]W__ZW
@HWI-EAS443:3:21:1213:1090#0/1
CAAGAATTCCCCTTTGGCTTGTGTTGAGAATAGAACGATT
+HWI-EAS443:3:21:1213:1090#0/1
`bbb`[Y¥aS_aaaabaaaaY`]aa_a__a`]a_Z][VX
@HWI-EAS443:3:21:1238:800#0/1
CTAATAAGAGCACTGACATTAATACGATGACCAAAGATG
+HWI-EAS443:3:21:1238:800#0/1
`_^`aaabbbbaa`aaaaaaaa__a`]a_`aX`_a`]`^`
@HWI-EAS443:3:21:1244:1454#0/1
AGCTGATTCATTTACTCCAGACTCCAAAGCTGGGTAGC
+HWI-EAS443:3:21:1244:1454#0/1
__babaaabaaaabaaaaa`aa_a`Xa`a[¥¥_a_Y`[X
@HWI-EAS443:3:21:1327:1726#0/1
CCCGATTGATGGACCACTACCTGAGGATAATGAACCAAGT
+HWI-EAS443:3:21:1327:1726#0/1
abab`ababa]]Q]_b]aa_`ba`aaaa`aaaa_`^`^`
@HWI-EAS443:3:21:1375:1640#0/1
CGAATGGCCTAACAGCTAATGAGTCAGGAAGGCTAATAGA
+HWI-EAS443:3:21:1375:1640#0/1
aaaa¥aa^^^aaa^QTU`aT_a`]_WS_a^`Z_L0¥__`^`_
@HWI-EAS443:3:21:1393:1077#0/1
ATTGGTGTGTTCTGTTTACTGTGTCCATGGTGTATCCTGT
+HWI-EAS443:3:21:1393:1077#0/1
abb]_X`]`aaabbaabaaa`b`_^aa`Y`[_`¥]_Z]
@HWI-EAS443:3:21:139:216#0/1
CCAATACTCAGAAAAGGGAAAGTGGACGACAAACACAGAG
+HWI-EAS443:3:21:139:216#0/1
aaaXV[]`¥PWHRPZ]_Z^[U`N^`^^¥N¥^¥KDN¥_XNV
@HWI-EAS443:3:21:1409:1042#0/1
AATCTGTCCACTCCTGCTTGTATTCCCTCATGGTTTGGTG
+HWI-EAS443:3:21:1409:1042#0/1
`Zaaaa[aaWU^Yaab`_baY¥baZUX_R`]X_TT__YQZ
@HWI-EAS443:3:21:1410:150#0/1
ATGGGCTCCAATCATCCGACGATTTTGCTCTCATAGTGAA
+HWI-EAS443:3:21:1410:150#0/1
aab_a]aa`aaa`a`[^a`¥_V^`_`¥^_Y_W^[_`V_^^
@HWI-EAS443:3:21:153:1305#0/1
TGCCAGGGTCTGACTTCGAGTCTGGACGGATCAAGAAAGAA
+HWI-EAS443:3:21:153:1305#0/1
a^_``aa^Saaa`L[RU`_U_ab`ZW^`]Ya]aWZ`]R_Y
@HWI-EAS443:3:21:1541:1074#0/1
CAAAGATGCAGAGAGAGGCAAGTTAAAAAGAAGGGCTATC
+HWI-EAS443:3:21:1541:1074#0/1
__X¥_WRaTU^0_YY^¥]PY[[U[UP`[T]W]WN[Z^¥BB
@HWI-EAS443:3:21:1627:977#0/1
CCAGTGATTGTGAAAGAAATCTCTGTGTCTTGTGAATTAG

+HWI-EAS443:3:21:1627:977#0/1
ab¥^_baabb_bababa`aa`a]ba_U`Wba[X`U¥aaXW
@HWI-EAS443:3:21:1631:1968#0/1
ACCAAAGATGCAGAGAGAGGCAAGTTAAAAAGAAGGGCTA
+HWI-EAS443:3:21:1631:1968#0/1
a``aaa`a_aa`^^`_¥_Y_^^^]^^^_^^_XXV]`
@HWI-EAS443:3:21:1679:997#0/1
CATGCTTTTGGCTGGACCATGGGCTGGCATTACCACAGCA
+HWI-EAS443:3:21:1679:997#0/1
_Za_Ubbba^_]¥UaaTS_bb¥MZ¥Ya`b`b^a[]^_K^b
@HWI-EAS443:3:21:1688:1780#0/1
GCGAAAAGCTTGAACAGTCTGGGCTCCCAGTAGGGGGCAA
+HWI-EAS443:3:21:1688:1780#0/1
¥_Z_ba_]aabbaaaaa_`]aZUW¥TZaa`^a__[^[U_
@HWI-EAS443:3:21:1739:1268#0/1
AAAAATCCAGCGCAAATGCCATAAGCACCATTCCT
+HWI-EAS443:3:21:1739:1268#0/1
_¥`¥`bb^¥`ba^__[_I¥^TZ__Z¥RQ`SV_^]_XMOSY
@HWI-EAS443:3:21:195:1633#0/1
CTTGTGTTGAGAATAGAACGATTCCTCTTGGGAATCCAGG
+HWI-EAS443:3:21:195:1633#0/1
abb`__abba_abaaaaba`aa`_``aaa_M_aa`_`_`a_
@HWI-EAS443:3:21:240:1804#0/1
GGCCCCGATTGATGCCAGGGTCGACTTCGAGTCTGGACGG
+HWI-EAS443:3:21:240:1804#0/1
]abbbbaabaabbbbbbbbYN^`bbbabaaa_bbabbbbb
@HWI-EAS443:3:21:248:1722#0/1
GCCATGGTGTCTAGGGCCCCGATTGATGCCAGGGTCGACT
+HWI-EAS443:3:21:248:1722#0/1
aaaaa`_K`Za`a^a^a`_]W_¥`^`a]__`^WKT^^X`
@HWI-EAS443:3:21:25:995#0/1
GAAGATCATTTGAGTTAAAGAAGCTGTGGGATCAAACCCA
+HWI-EAS443:3:21:25:995#0/1
aaaa`b^aaaa_a_a`]aaaa_`W`][¥_]__XZ_^
@HWI-EAS443:3:21:290:624#0/1
CAACTGCATTGGCCAACACCATAGAAGTCTTTAGATCGAA
+HWI-EAS443:3:21:290:624#0/1
aaa`aaa`a_a`a`^____^[_Y^^^][Z[^]]^Y
@HWI-EAS443:3:21:32:355#0/1
TGTTCTGTTTACTGTGTCCATGGTGTATCCTGTTCTGTT
+HWI-EAS443:3:21:32:355#0/1
_a]¥^¥¥[_aaa`ba]M_aaa`^UaXZ_]`a[``V¥]UQ
@HWI-EAS443:3:21:337:995#0/1
TCTATTCCTCTTTGTTTCATTGATTCCATTACATCCTTTA
+HWI-EAS443:3:21:337:995#0/1
aaaa_a`baa_aaaa¥__`_a¥`__V^`_`a]__¥__¥[
@HWI-EAS443:3:21:340:426#0/1
GGTGTGTTCTGTTTACTGTGTCCATGGTGTATCCTGTTCC
+HWI-EAS443:3:21:340:426#0/1
U_P__aaaa__Uaa^S]b_R^_]`a_YU]Z_aT`_`^_]`

@HWI-EAS443:3:21:378:1801#0/1
CAGAAACATCCTGAGCATGGCACCCATAATGTTCTCAAAC
+HWI-EAS443:3:21:378:1801#0/1
a_]__][N]]][S][a`Z¥V]aa^W^^¥^_`YZ^¥__[[Y
@HWI-EAS443:3:21:380:1445#0/1
GTGTTCTGTTTACTGTGTCCATGGTGTATCCTGTTCTCCTGT
+HWI-EAS443:3:21:380:1445#0/1
aaaV`a_a_a¥^Y^_^^_`aaa_]aR^_XRX_^___]S]
@HWI-EAS443:3:21:382:850#0/1
GATTGATGCCAGGGTCGACTTCGAGTCTGGACGGATCAAG
+HWI-EAS443:3:21:382:850#0/1
aa`ba`aaabaaaaUa_a```a`^]`^`_[_¥Z``_¥^_¥_
@HWI-EAS443:3:21:392:1005#0/1
ACTACACATTCCTGGATTCCCAAGAGGAATCGTTCTATTC
+HWI-EAS443:3:21:392:1005#0/1
a`a`aaaa`_aa`^_^^a`_`^^]]_]__`Z]^^`_]Z
@HWI-EAS443:3:21:410:210#0/1
GGGAGCTAATGGATGATGATTATCGGGGAAGACTTTGTAA
+HWI-EAS443:3:21:410:210#0/1
aa`)`_aY`aa_]a^_a^^[[^^^Y]]YT[^Y]YY^
@HWI-EAS443:3:21:41:1035#0/1
GAAGAATCCCACCCAGGAATATTTGAGAATTCATGCCTTG
+HWI-EAS443:3:21:41:1035#0/1
`¥`aaa`aa]Wa`¥^_V__¥¥_a`[^_]Z[^`^]¥_
@HWI-EAS443:3:21:429:565#0/1
ACTACCTGAGGATAATGAACCAAGTGGGTATGCACAAACA
+HWI-EAS443:3:21:429:565#0/1
`_]aa`]Z[b]¥aaa_]a¥_`_Z`_U___^W_]`SU
@HWI-EAS443:3:21:481:580#0/1
TTTAAGCAGACTTCAGGAATGTGAAGATTCGGTATATTGT
+HWI-EAS443:3:21:481:580#0/1
aaababbaaaaaaaaaaaa_aaa_aa`a`_a__a^_a__`a¥
@HWI-EAS443:3:21:48:1418#0/1
CCCTCATGTTTGGTGCATTCACTATGAGAGCAAAATCGT
+HWI-EAS443:3:21:48:1418#0/1
aaa_^U[a]Ta`_WTZ¥Xa¥^`^`^`_][[¥¥[^`^`_]`]
@HWI-EAS443:3:21:503:409#0/1
GCCAGGGTCGACTTCGAGTCTGGACGGATCAAGAAAGAAG
+HWI-EAS443:3:21:503:409#0/1
aa`aaaaUaa_]ZX[^^^S_¥`_`_`^TY^[^¥^WZ^¥
@HWI-EAS443:3:21:528:1858#0/1
CACTGACATTAATACGATGACCAAAGATGCAGAGAGAGG
+HWI-EAS443:3:21:528:1858#0/1
aaa^[aaaa`aa`_aa`a`_`_aaaa^a]^^^]_`^_]0
@HWI-EAS443:3:21:56:1508#0/1
TTCGAGTCTGGACGGATCAAGAAAGAAGATTCTCTGAGA
+HWI-EAS443:3:21:56:1508#0/1
Z¥_¥_]Z_^]`^]XRX`¥¥^[a[X]VZ¥_X[[`_^]T^
@HWI-EAS443:3:21:622:88#0/1
GAGTAAATGAATCAGCTGACATGAGTATTGGAGTAACAGT

+HWI-EAS443:3:21:622:88#0/1
aaa`^a_ab_aY_^_Za[SU__Y`G]__^Y[[[]ZY^U
@HWI-EAS443:3:21:660:153#0/1
TTTGAGTTAAAGAAGCTGTGGGATCAAACCCAATCAAAGG
+HWI-EAS443:3:21:660:153#0/1
aaba]a`aaa_aaa`_aa]a`a__]``X]]^^^]_]_^`
@HWI-EAS443:3:21:67:1619#0/1
GATTGATGCCAGGGTCGACTTCGAGTCTGGACGGATCAAG
+HWI-EAS443:3:21:67:1619#0/1
]K]ZSb`]ab`[RSWaaaaXa_ZU_aa¥`]`]V[[[_`¥
@HWI-EAS443:3:21:708:1010#0/1
AAGAAATCTATTAGCCTTCCTGACTCATTAGCTGTTAGGC
+HWI-EAS443:3:21:708:1010#0/1
aa`a]aaabab`a_aaaaa_``a_a^a`````a`]^_Z^^
@HWI-EAS443:3:21:728:987#0/1
TAGAACGATTCCCTCTTGGGAATCCAGGAATGTGTAGTTGC
+HWI-EAS443:3:21:728:987#0/1
b¥Zaaaab[`]`]^V]X_Q_b_aa`V`aP_QZ`Y_[Z
@HWI-EAS443:3:21:732:1336#0/1
AAAACAAAGACTGAATAAGAGAGGCTATCTAATAAGAGCA
+HWI-EAS443:3:21:732:1336#0/1
aaa`_a`_aaaaa`a`aa_a`_a`^__TW[I[W^_WQ[H[
@HWI-EAS443:3:21:743:212#0/1
CCCACCCAGGAATATTTGAGAATTCATGCCTTGAAACAAT
+HWI-EAS443:3:21:743:212#0/1
a`abbabba^aba`aaaaaaa`aa`a```_`aa`_a^a^`
@HWI-EAS443:3:21:776:432#0/1
CCTCTTTGTTTCATTGATTCCATTACATCCTTTAAGAAATC
+HWI-EAS443:3:21:776:432#0/1
`babbbbbbbaaaaaaaabaa`baa``aa`_`aaa`a`a_a_
@HWI-EAS443:3:21:79:1225#0/1
GGATGGGCTCCAATCATCCGACGATTTTGCTCTCATAGTG
+HWI-EAS443:3:21:79:1225#0/1
aa_aa`aaabbbbaaaaaa_a¥a```aaaaaaa`aaY`
@HWI-EAS443:3:21:820:1857#0/1
GTGTGTTCTGTTTACTGTGTCCATGGTGTATCCTGTTCCCT
+HWI-EAS443:3:21:820:1857#0/1
a¥b__[[[aa_]aa`a`_U`]ZX`^`_Xa¥Y]^_W_UZ_N¥
@HWI-EAS443:3:21:835:538#0/1
AAAATTCCAGCGCAAAATGCCATAAGCACACATTCCTT
+HWI-EAS443:3:21:835:538#0/1
]Z¥NG¥¥`[YR_^a[Z_[WXZX¥Y[XR_VXZMW^¥^X_US
@HWI-EAS443:3:21:838:1938#0/1
GTTCTGTTTACTGTGTCCATGGTGTATCCTGTTCCCTGTT
+HWI-EAS443:3:21:838:1938#0/1
_SQ]]ZS]XaaYVYa_a[a¥[YQRQ`]][T^VW]_X[UQUZ
@HWI-EAS443:3:21:900:190#0/1
CTTGAGGATGAACAGATGTACCAGAAGTGCTGCAATCTAT
+HWI-EAS443:3:21:900:190#0/1
_babaaabbb`a``baab[``_a^a`__[_````_`a^a`_`

@HWI-EAS443:3:21:959:1611#0/1
GGGCTATTAGTATCAGATGGAGGACCAAACCTTATACAATA
+HWI-EAS443:3:21:959:1611#0/1
]``bb`X``^`^b_¥baaaa`ab[aaZZXab`a`¥^a``X
@HWI-EAS443:3:21:96:36#0/1
TTCCTAAAAATTCCAGCGCAAATGCCATAAGCACCACAT
+HWI-EAS443:3:21:96:36#0/1
aabaab`bY`aaaaabaaaa`W`__``aaa_a`a^Z__`_
@HWI-EAS443:3:22:1012:1945#0/1
GCCAGGGTCGACTTCGAGTCTGGACGGATCAAGAAAGAAG
+HWI-EAS443:3:22:1012:1945#0/1
a_YX]aV[^``^_R[[`¥_a^XV[_[_`_W[`YPZ_WY[^P
@HWI-EAS443:3:22:1033:697#0/1
ACTGCATTGGCCAACACCATAGAAGTCTTTAGATCGAATG
+HWI-EAS443:3:22:1033:697#0/1
a`_aWY]^_[aaVDNZ^`Y_Y]MNOJUOYO[ZZU^_TTZ]
@HWI-EAS443:3:22:104:486#0/1
CTAATAGCCCTACCTTTGATTGGGTTTGATCCCACAGCTT
+HWI-EAS443:3:22:104:486#0/1
abbbbaabbb`abbbbbaaaa`a¥a_aa_aa`Z`aa`aaaa
@HWI-EAS443:3:22:105:1635#0/1
CCCTATTGTTCTTTGCGTGACCATCTTCTTGGTCATGTTG
+HWI-EAS443:3:22:105:1635#0/1
UTGYRQQQ]`ZUV^SL]YYXJQYZR`YRV]N[VSUSOM
@HWI-EAS443:3:22:1101:2030#0/1
ATTTCTTTTGTCCAAGATTCAAGTATCGAGACTCCCAAGAC
+HWI-EAS443:3:22:1101:2030#0/1
a_aa]b^¥^]Paab`¥a¥a^bVH^RLQY¥^_UWI[Y`^aG
@HWI-EAS443:3:22:1159:1270#0/1
AATGAATCAGCTGACATGAGTATTGGAGTAACAGTGATAA
+HWI-EAS443:3:22:1159:1270#0/1
a]¥`a`a__^``_]_X_]_Z_]_]_]¥P¥UU[XX][]^]
@HWI-EAS443:3:22:1195:88#0/1
TCCAGACACTCCAAAGCTGGGTAGCTCCATGCTAAAATTA
+HWI-EAS443:3:22:1195:88#0/1
a`^^`^`_aa_____``aa`aaU]]YY^Y^Z¥Z]^`^^¥]_
@HWI-EAS443:3:22:1208:1202#0/1
GGTGTGTTCTGTTTACTGTGTCCATGGTGTATCCTGTTCC
+HWI-EAS443:3:22:1208:1202#0/1
aaW¥^[MQZa_X_]_^`^`^`Y[]]TY]]X]Y^XXYUY
@HWI-EAS443:3:22:1217:795#0/1
CAACTGCATTGGCCAACACCATAGAAGTCTTTAGATCGAA
+HWI-EAS443:3:22:1217:795#0/1
aaa]]_]aa`aaa`aaZa`_`a```_aX¥aa_]`]^`^____
@HWI-EAS443:3:22:1286:969#0/1
AGTAAACAGAACACACCAATACTCAGAAAAGGGAAAGTGG
+HWI-EAS443:3:22:1286:969#0/1
`_`_]`aaabbaaaaa_a`aaa¥Va^^]]_baR^_XaW^^
@HWI-EAS443:3:22:1298:1232#0/1
AAAAATTCCAGCGCAAATGCCATAAGCACCACATTCCCT

+HWI-EAS443:3:22:1298:1232#0/1
`^`^aaa¥aaa`[[a`[``]W`_^`VWR`Z¥^XZY[]ZU_
@HWI-EAS443:3:22:1316:832#0/1
TGTGGCTAATTTTAGCATGGAGCTACCCAGCTTTGGAGTG
+HWI-EAS443:3:22:1316:832#0/1
_[T_baZ`¥Za_Ya[0¥TXWYWWa_Z_YVSZ[[W^Q]PY
@HWI-EAS443:3:22:1340:881#0/1
GGGATGGGCTCCAATCATCCGACGATTTTGCTCTCATAGT
+HWI-EAS443:3:22:1340:881#0/1
abb_abab`aaaa`aaa_`a]a__a`a`_`^___`__Y
@HWI-EAS443:3:22:1353:1292#0/1
GACGGATCAAGAAAGAAGAGTTCTCTGAGATCATGAAGAT
+HWI-EAS443:3:22:1353:1292#0/1
aaa``[aaa¥`[`¥[`X_¥aXa]a```___¥¥_`¥`]-]]
@HWI-EAS443:3:22:1361:151#0/1
GGCCCGGATTGATGCCAGGGTCGACTTCGAGTCTGGACGG
+HWI-EAS443:3:22:1361:151#0/1
aa]Ra^Z]baaU¥XQW^ba¥R^a¥TX^V^¥bWS^a`ZK]a
@HWI-EAS443:3:22:137:999#0/1
GTTGATCCCACTAACTTGCAGGTCCTGTAGAATCTGTCC
+HWI-EAS443:3:22:137:999#0/1
aR_a`^`ba_W¥`_aa`aY]Y[_Q_aXa¥a_¥U][__¥¥`
@HWI-EAS443:3:22:1382:1691#0/1
GAACAGGATACACCATGGACACAGTAAACAGAACACACCA
+HWI-EAS443:3:22:1382:1691#0/1
^a_]_aa[^aa`¥[^W_aZZ[SZ]0¥__UY[RUO[JYTN
@HWI-EAS443:3:22:1419:128#0/1
GGTGTCTAGGGCCCGGATTGATGCCAGGGTCGACTTCGAG
+HWI-EAS443:3:22:1419:128#0/1
aZL¥`a`^baaaVaba¥aa]¥aaZV¥a]^W]^WS_¥S`Sa
@HWI-EAS443:3:22:143:1693#0/1
GTGTATCTGTAGTCTTTGATGAACAATTGAAGAGCCATCT
+HWI-EAS443:3:22:143:1693#0/1
a]Y`_abaa`aa¥baa``ba`aaba``¥ab_a]^ba_`]
@HWI-EAS443:3:22:1474:1289#0/1
ATCTGATACTAATAGCCCTACCTTTGATTGGGTTTGATCC
+HWI-EAS443:3:22:1474:1289#0/1
aa`a`aaaaaa_a_R^`a_]`_aaa__^__LMWa]^_Z]
@HWI-EAS443:3:22:1497:1040#0/1
GAACATTATGGGTGCCATGCTCAGGATGTTTCTGAACCAC
+HWI-EAS443:3:22:1497:1040#0/1
^^_¥¥a__^^UV][XYZYZS]¥[OSYWRZ_YSVSZQPVI
@HWI-EAS443:3:22:1538:1397#0/1
TGGTCTCCATCTGATACTAATAGCCCTACCTTTGATTGG
+HWI-EAS443:3:22:1538:1397#0/1
K^aOH_^^QYYV]¥aZYRYbabbb^VZ^]YJ]a`aWa^^Z
@HWI-EAS443:3:22:1539:376#0/1
TAAACAATGACCTTGACCTGCAACGGCCAGATGGCTCT
+HWI-EAS443:3:22:1539:376#0/1
`a`¥Z`]`aa__`a`[``]`a`_]`]^ZUP___^¥PT[W]

@HWI-EAS443:3:22:1554:151#0/1
GAGATAACAACCCACTTTCAAAGAAAAAGGAGAGTAAGAG
+HWI-EAS443:3:22:1554:151#0/1
a_a^_aa_aa_^]_S]_a[¥[W^^[]]¥^¥X_[][[Z^[^
@HWI-EAS443:3:22:1597:1407#0/1
TGCTCTTATTAGATAGCCTCTCTTATTTCAGTCTTTGTTTT
+HWI-EAS443:3:22:1597:1407#0/1
aaaa_aaabb^HYa[^^`a_`aaa^aa_¥__Ya`ab_`aa
@HWI-EAS443:3:22:1701:1665#0/1
GTCTTTGATGAACAATTGAAGAGCCATCTGGGCCGTTGCA
+HWI-EAS443:3:22:1701:1665#0/1
`^`aaaabbbbaa_aaaaaa`aa_``a]_``_a^Y`V__UZ
@HWI-EAS443:3:22:1747:99#0/1
GATTGATGCCAGGGTCGACTTCGAGTCTGGACGGATCAAG
+HWI-EAS443:3:22:1747:99#0/1
`Wa^^T^^]RZY_¥TT^_`XH¥ZTRLaQY¥YT^R[FZ^`
@HWI-EAS443:3:22:175:1379#0/1
GAACAACATGATAAACAATGACCTTGGACCTGCAACGGCC
+HWI-EAS443:3:22:175:1379#0/1
a]a_`b`ZLTSQRYOR`¥Z`[¥VWXGHHSGVU]YXTXTUU
@HWI-EAS443:3:22:178:446#0/1
AGTGATTGTGAAAGAAATCTCTGTGTCTTGTGAATTAGTC
+HWI-EAS443:3:22:178:446#0/1
aa`a_``^`_][aaX_a_Waa`WWX^`a]¥_]]_¥YXY
@HWI-EAS443:3:22:227:1972#0/1
GTGCCATGCTCAGGATGTTTCTGAACCACTCGGGTTGATT
+HWI-EAS443:3:22:227:1972#0/1
a__`b]¥aaba_a`a_`a__^a__aa_¥``__J_^Y_a
@HWI-EAS443:3:22:279:477#0/1
GAACAATTGAAGAGCCATCTGGGCCGTTGCAGGTCCAAGG
+HWI-EAS443:3:22:279:477#0/1
aa]``a__a_a]_`_¥_a_]`Y_]X`]UV`RY¥Z_U_X
@HWI-EAS443:3:22:27:838#0/1
AAAAATTCCAGCGAAAATGCCATAAGCACCATTCCT
+HWI-EAS443:3:22:27:838#0/1
a_PTJU^a[Z]`a__[UH[Q_XYUVJU_]¥RX¥RLX^]YY
@HWI-EAS443:3:22:335:1438#0/1
CTTTTCCTAAAAATTCCAGCGAAAATGCCATAAGCACCA
+HWI-EAS443:3:22:335:1438#0/1
][RHUVXa`b`_aaa`b`a_RQ¥R_Y_aaa_Y_¥`__YS¥
@HWI-EAS443:3:22:339:561#0/1
GTTGTTCTTTATCACTGTTACTCCAATACTCATGTCAGCT
+HWI-EAS443:3:22:339:561#0/1
aaaa¥aaaaa`^_``a_`¥^__`^^_]_]^_^[[^_]`
@HWI-EAS443:3:22:386:826#0/1
GGCTCCAATCATCCGACGATTTTGCTCTCATAGTGAATGC
+HWI-EAS443:3:22:386:826#0/1
W_[]Z^¥^V^^XU__X^a¥_aa_``Za][][]_W`¥``aaaa
@HWI-EAS443:3:22:407:1449#0/1
GGGCAATGAAAAGAAGGCCAAACTGGCAAATGTTGTGAGA

+HWI-EAS443:3:22:407:1449#0/1
^bbbbbabbbaabbbbabababbbab`ba_ba`a
@HWI-EAS443:3:22:409:1758#0/1
AGTGAATGCACCAAACCATGAGGGAATACAAGCAGGAGTG
+HWI-EAS443:3:22:409:1758#0/1
`bZa_Z¥Ua]^aa^X_aU`aa[a¥`_^aaaaY`__[ZS[
@HWI-EAS443:3:22:429:1642#0/1
GCAGACTTCAGGAATGTGAAGATTCCGTATATTGTATAAG
+HWI-EAS443:3:22:429:1642#0/1
`bbbb`babb^]abaaaaba_aaaaa]^aaaaa`baa`
@HWI-EAS443:3:22:446:1327#0/1
ACTCCAGACACTCCAAAGCTGGGTAGCTCCATGCTAAAAT
+HWI-EAS443:3:22:446:1327#0/1
Za_aaa``aaa```a]_^`]^V`Z_V^`¥Z]]]]U]^
@HWI-EAS443:3:22:461:2038#0/1
GGCTTTCCTTGAAGAATCCCACCCAGGAATATTTGAGAAT
+HWI-EAS443:3:22:461:2038#0/1
]bbbbbbbabbbbabababbbbbbababbaabbbba`
@HWI-EAS443:3:22:461:228#0/1
TTCGAATCTTATTCTTTTACTCTCGAACATGTACCCTTT
+HWI-EAS443:3:22:461:228#0/1
^X_a[ta_ab^[a[MV]Q^^KTMRR^QJWUa`TMFN^¥_B
@HWI-EAS443:3:22:483:540#0/1
GTGGGATCAAACCCAATCAAAGGTAGGGCTATTAGTATCA
+HWI-EAS443:3:22:483:540#0/1
a]aa¥^Yaaa`_`aa`aa`[a_Q``aYaaa`Za_U`^^`
@HWI-EAS443:3:22:605:531#0/1
GAGATTTCTTTCACAATCACTGGGGACAACACTAAGTGGA
+HWI-EAS443:3:22:605:531#0/1
a][_aa_a```a`_a`a`]^`a`a`^^`_^`^`Za__
@HWI-EAS443:3:22:626:1637#0/1
AAATTCCAGCGCAAAATGCCATAAGCACACATTCCCTTA
+HWI-EAS443:3:22:626:1637#0/1
a¥Q_aaaa_a_aaa`Za]`_^]Z`__`_^`][_Z]^_
@HWI-EAS443:3:22:632:20#0/1
TTCGAGAGTAAAAGAATGAAGATTCGAACACAAATACCAG
+HWI-EAS443:3:22:632:20#0/1
]W]_`R_[a_Y¥aa`b`[`_Z_a_]¥YZ``¥[¥XXFW^
@HWI-EAS443:3:22:636:275#0/1
GCCGTTGCAACTACACATTCTGGATTCCCAAGAGGAATC
+HWI-EAS443:3:22:636:275#0/1
abaaa_b`bbaaaaaa`a`a^_a_]`^^`____Z``_]U
@HWI-EAS443:3:22:685:370#0/1
GATAACAATGACCTTGGACCTGCAACGGCCAGATGGCT
+HWI-EAS443:3:22:685:370#0/1
aaaaab_aaaa`a```aa__Ua__^aY_]_^X^`]^`^XY
@HWI-EAS443:3:22:692:1483#0/1
GGCCATGGTGTCTAGGGCCCGGATTGATGCCAGGGTCGAC
+HWI-EAS443:3:22:692:1483#0/1
`aaaaaaa^_a^a`_`a`aaa`````^_a`¥_YLP``¥

+HWI-EAS443:3:22:98:549#0/1
a`[a[aa`a]bYQZ]PW_aU`_`WW`^`^`_ZZ_a¥YRSa
@HWI-EAS443:3:23:1065:347#0/1
GAATGTGTAGTTGCAACGGCATCATATCCATGCTTTTGG
+HWI-EAS443:3:23:1065:347#0/1
a]VO^Q`WW]RVZ`[YMS[[[^WV]RX_WYV¥YVZ^ZNVV
@HWI-EAS443:3:23:1167:519#0/1
GGAGTAAATGAATCAGCTGACATGAGTATTGGAGTAACAG
+HWI-EAS443:3:23:1167:519#0/1
¥`[`Qbabab^aa`aa¥^^¥[UY`^^Y¥aaaaZ_Z]XUN`
@HWI-EAS443:3:23:1168:848#0/1
TGCTGGTATTTGTGTTCGAATCTTCATTCTTTTACTCTCG
+HWI-EAS443:3:23:1168:848#0/1
a`abbb`abbbb¥_]aaaaa^b`_aaa_aaaaa`____]a
@HWI-EAS443:3:23:1197:166#0/1
AGCCATGGAACAGGAACAGGATACACCATGGACACAGTAA
+HWI-EAS443:3:23:1197:166#0/1
_`X_aVV`W_Q]]aaa_`^bWaaUYNG_[`]¥^`X^aI[W
@HWI-EAS443:3:23:122:1201#0/1
CTAACTTGCAGTCTGTAGAATCTGTCCACTCCTGCTTG
+HWI-EAS443:3:23:122:1201#0/1
ababaaa`aabU^`_a`abb`aa_aa^_____a[[`a_
@HWI-EAS443:3:23:1237:1802#0/1
GGATTGATGCCAGGGTCGACTTCGAGTCTGGACGGATCAA
+HWI-EAS443:3:23:1237:1802#0/1
abbbaabaa_aa_a`¥aab`_aa`aa_Zaa^`_ZY]_Za`
@HWI-EAS443:3:23:1273:1323#0/1
GAACAGTCTGGGCTCCCAGTAGGGGCAATGAAAAGAAGG
+HWI-EAS443:3:23:1273:1323#0/1
`^`Z`[_]UaXX`aaXXST[[a^]__aa^ZZZ¥_UZ^
@HWI-EAS443:3:23:1288:707#0/1
GTGTGTTCTGTTTACTGTGTCCATGGTGTATCCTGTTCCCT
+HWI-EAS443:3:23:1288:707#0/1
a[a¥^R`[ab_aa_]__a]_[]`¥VZ[]`[V^¥¥TPW¥
@HWI-EAS443:3:23:1310:1043#0/1
ATGGAATCAATGAACAAAGAGGAAATAGAGATAACAACCC
+HWI-EAS443:3:23:1310:1043#0/1
abb``baa_bbaaaaa`ab_a`]¥^aaaaaaaaa^aaXYX
@HWI-EAS443:3:23:133:1345#0/1
TGATGCCGTTGCAACTACACATTCCTGGATTCCCAAGAGG
+HWI-EAS443:3:23:133:1345#0/1
a__`^baa`_a`a`a`aaa`_a`^_X][`a_`W]]Z
@HWI-EAS443:3:23:1353:1155#0/1
AGGAAATAGAGATAACAACCCACTTTCAAAGAAAAAGGAG
+HWI-EAS443:3:23:1353:1155#0/1
^aa^``bbbbbbba^`_abbL`bbaZ`abba^abbaab
@HWI-EAS443:3:23:1386:266#0/1
TGGATGATGATTATCGGGGAAGACTTTGTAATCCCCTGAA
+HWI-EAS443:3:23:1386:266#0/1
aba_aaaaaaaaaa]``a_`^Z`_``[^^^^ZZW_^Z^

@HWI-EAS443:3:23:1470:1598#0/1
TTTTGTTTGAGAACATTATGGGTGCCATGCTCAGGATGTT
+HWI-EAS443:3:23:1470:1598#0/1
ab`ab`baa__`_`a`aa[W_]^[X_[TUXSSZ^ZXYY^
@HWI-EAS443:3:23:1496:1285#0/1
ATTGATTCCATTACATCCTTTAAGAAATCTATTAGCCTTC
+HWI-EAS443:3:23:1496:1285#0/1
aa`b`baa`bbbaab__abbaba`aaaa^baa^aa]aa`]
@HWI-EAS443:3:23:152:713#0/1
TTTGCGAAAAGCTTGAACAGTCTGGGCTCCCAGTAGGGGG
+HWI-EAS443:3:23:152:713#0/1
_]^[`_Z0]^[TXVV]TNPQ[NV¥TS[WNVVYZSQV¥VXXV
@HWI-EAS443:3:23:1530:914#0/1
GCCCATCCCACCAGTATATTGTCTTGGTGTATTTCTTTTG
+HWI-EAS443:3:23:1530:914#0/1
`a`bbbaabb¥Xa`R]ZS]`Y]a`YWU][P`aaXaaaa`
@HWI-EAS443:3:23:161:210#0/1
CCCATTTTAAGCAGACTTCAGGAATGTGAAGATTCCGTAT
+HWI-EAS443:3:23:161:210#0/1
abb`bbbba``bbbaaaaba`a]`Ya]¥¥__aaab^_a
@HWI-EAS443:3:23:1657:933#0/1
CACCAGTATATTGTCTTGGTGTATTTCTTTTGTCCAAGAT
+HWI-EAS443:3:23:1657:933#0/1
aaT¥_a`bb`bab`Zbaaa[_^_aa`¥aaaaZ¥UTa``]^
@HWI-EAS443:3:23:1659:1172#0/1
GATGCCAGGGTCGACTTCGAGTCTGGACGGATCAAGAAAG
+HWI-EAS443:3:23:1659:1172#0/1
QV[``a[`¥_QY_ba¥_P_``[Z^a_PR_b]UGY_aa^]]
@HWI-EAS443:3:23:1660:538#0/1
TGGATGTCAATCCGACTCTACTTTTCCTAAAAATCCAGC
+HWI-EAS443:3:23:1660:538#0/1
`aba`b`a_aa`^a^]a_aa[aaab_`aabaa_aaX¥__G
@HWI-EAS443:3:23:1687:991#0/1
TCTGTTTACTGTGTCCATGGTGTATCCTGTTCCCTGTTCCA
+HWI-EAS443:3:23:1687:991#0/1
^_`b^bbbaa`_ba_`_a^ZVaVY]V]_a^`[____]`¥]Y
@HWI-EAS443:3:23:177:1181#0/1
TGCCAGGGTCGACTTCGAGTCTGGACGGATCAAGAAAGAA
+HWI-EAS443:3:23:177:1181#0/1
`abbabaa[b`aabababbaaba`aaaa^`abaabab`ab
@HWI-EAS443:3:23:208:2026#0/1
GTGGACGACAAACACAGAGACTGGTGCACCCAGCTCAAC
+HWI-EAS443:3:23:208:2026#0/1
a¥^]]a¥S`]]]a`a`¥RQT_WUTPP`]Z``YTS¥P¥¥a]
@HWI-EAS443:3:23:211:1167#0/1
ATCTAATAAGAGCACTGACATTAATACGATGACCAAAGA
+HWI-EAS443:3:23:211:1167#0/1
aabaaa`aNaa`aaaaaaa^a^^`a_`_[]`a¥Y
@HWI-EAS443:3:23:223:1777#0/1
GATGGCACAGCATCACTGAGTCCTGGGATGATGATGGGCA

+HWI-EAS443:3:23:223:1777#0/1
abaa[bbbbabbaab`aaa`^aaa^_a`aaaa]aa_] [[¥
@HWI-EAS443:3:23:286:1043#0/1
TGGTGTGTTCTGTTTACTGTGTCCATGGTGTATCCTGTTC
+HWI-EAS443:3:23:286:1043#0/1
abbZbZaabaabaaaaa`^`aaaa]Ua[[`_`_`_`_`a
@HWI-EAS443:3:23:287:188#0/1
CACAGTAAACAGAACACACCAATACTCAGAAAAGGGAAAG
+HWI-EAS443:3:23:287:188#0/1
abb`aa_a]ba`^baaaa`a`aaaaaabaa`aaa_aa_a
@HWI-EAS443:3:23:306:821#0/1
CTTGTGTTGAGAATAGAACGATTCCTCTTGGGAATCCAGG
+HWI-EAS443:3:23:306:821#0/1
abbbbaabbaabaabbbabbb_aaabaaaa`aa`_aa]_a
@HWI-EAS443:3:23:336:1471#0/1
CATTGAAGTACTTCAGGTCAATGCTTGCTAGCATTCTGC
+HWI-EAS443:3:23:336:1471#0/1
][^`b`Z]S`ab]b`^Ua`¥`¥ba``aYb_]`^_aaba`_
@HWI-EAS443:3:23:346:1064#0/1
GTACTTCAATGAATCAACAAAGAAGAAAATTGAGAAAATA
+HWI-EAS443:3:23:346:1064#0/1
]V^^SXXX]`a^`^]¥^a_WVOH^TGNT^^]Q]RX[W[R
@HWI-EAS443:3:23:359:430#0/1
CTGTGGTAATGCCAGCCCATGGTCCAGCCAAAAGCATGGA
+HWI-EAS443:3:23:359:430#0/1
W_[ab`ab¥a_a_¥aZXabaa]F]`_X``¥UZa]¥^_a`X
@HWI-EAS443:3:23:369:1596#0/1
TGCTCTCATAGTGAATGCACCAAACCATGAGGGAATACAA
+HWI-EAS443:3:23:369:1596#0/1
abbbbabbaa[`bbb`abbaabbbbaaaabb``_aa`baba
@HWI-EAS443:3:23:394:1584#0/1
GAAAAATTTCTCGAATAGATTGCAGCACTTCTGGTACATC
+HWI-EAS443:3:23:394:1584#0/1
_a``RK¥aXTa``X^Xb`¥^_SY`a¥a```¥aI`M]`_`a
@HWI-EAS443:3:23:412:691#0/1
AAAAATTCAGCGCAAATGCCATAAGCACCATTCCT
+HWI-EAS443:3:23:412:691#0/1
^`aa]aa`__aa_aabaa`aaa]aY^b`¥aaba_¥YT
@HWI-EAS443:3:23:481:484#0/1
GCTCCCAGTAGGGGCAATGAAAAGAAGGCCAAACTGGCA
+HWI-EAS443:3:23:481:484#0/1
aaa`a]`M0^aa`aa__¥ZTT]U`^^[_Z`W]_X`_`R^
@HWI-EAS443:3:23:489:2006#0/1
GATTCCTCTTGGGAATCCAGGAATGTGTAGTTGCAACGGC
+HWI-EAS443:3:23:489:2006#0/1
O_bbbbabbbbaabbbbaaaab_babababaaab^abbbab
@HWI-EAS443:3:23:566:1394#0/1
GTGCCATGCTCAGGATGTTTCTGAACCACTCGGGTTGATT
+HWI-EAS443:3:23:566:1394#0/1
_R`^`a_ab__YZ``_W_aaaa__aaa_a¥``_`^PV_]_0

@HWI-EAS443:3:23:591:858#0/1
GTGCTTATGGCATTGCGCTGGAATTTTAGGAAAAGTA
+HWI-EAS443:3:23:591:858#0/1
ZSVWSYM^`a]H`X_XFX[P[¥UY\$]YUY_`_`_]^TY
@HWI-EAS443:3:23:611:167#0/1
GTCCTCCATCTGATACTAATAGCCCTACCTTTGATTGGGT
+HWI-EAS443:3:23:611:167#0/1
ZU_ZZa`aS]aaaa__`Y]Yaa¥NZ]GXZZ``^`_¥QNXW
@HWI-EAS443:3:23:637:621#0/1
ACCTATATGTGTATCTGTAGTCTTTGATGAACAATTGAAG
+HWI-EAS443:3:23:637:621#0/1
Vbbabb```_bb`]ab^`bXaaba`aa`a_a]aa``a^
@HWI-EAS443:3:23:640:279#0/1
GGGGCAATGAAAAGAAGCCAAACTGGCAAATGTTGTGAG
+HWI-EAS443:3:23:640:279#0/1
aaaaa]YX^Y[XZ`^_^[]]_^]_¥VZ[SYR[Y]]Z]X^
@HWI-EAS443:3:23:658:1793#0/1
GTGTGTTCTGTTTACTGTGTCCATGGTGTATCCTGTTCCCT
+HWI-EAS443:3:23:658:1793#0/1
aZWTYV`a^R¥aa`aa`a_aa`_`a[`Va_``_]X_]`
@HWI-EAS443:3:23:761:44#0/1
GAACAATTGAAGAGCCATCTGGGCCGTTGCAGGTCCAAGG
+HWI-EAS443:3:23:761:44#0/1
0¥]]]bb_ab```¥`_baab_S¥`aT_^a]aa¥YXVY_`
@HWI-EAS443:3:23:768:1125#0/1
CCCGGATTGATGCCAGGGTCGACTTCGAGTCTGGACGGAT
+HWI-EAS443:3:23:768:1125#0/1
^b`bab`abaa`bbaaab^a`[^`Y^_X]Y^ab___a`_¥
@HWI-EAS443:3:23:770:1666#0/1
GTAAGAGACAACATGACCAAGAAGATGGTCACGCAAAGAA
+HWI-EAS443:3:23:770:1666#0/1
a_aaaaaaab`^a__`_a`__a`_]__Xa`X_]_^__^]
@HWI-EAS443:3:23:788:453#0/1
TGCCAGGGTCGACTTCGAGTCTGGACGGATCAAGAAAGAA
+HWI-EAS443:3:23:788:453#0/1
aY_`^_bb¥aY]`aabaa]¥`]Y_^`a`Z`]¥_`a`_`_`
@HWI-EAS443:3:23:797:1017#0/1
GGCTCCAATCATCCGACGATTTTGCTCTCATAGTGAATGC
+HWI-EAS443:3:23:797:1017#0/1
aabaabY[`]`abZ``a_NXaa]_]_a^aaU_[OaZK¥_]`
@HWI-EAS443:3:23:798:110#0/1
GAAAGAAATCTCTGTGTCTTGTGAATTAGTCATCATCTTT
+HWI-EAS443:3:23:798:110#0/1
aaaaaabba^baba_a`aaa_aY^`X_____`]__^`_`_`
@HWI-EAS443:3:23:813:653#0/1
GGCCCCGATTGATGCCAGGGTCGACTTCGAGTCTGGACGG
+HWI-EAS443:3:23:813:653#0/1
ab`b`ba^XaX__b_J¥a^RP^XM[`a^]X^0`_X¥IS^`
@HWI-EAS443:3:23:829:381#0/1
GAACGATTCTCTTGGGAATCCAGGAATGTGTAGTTGCAA

+HWI-EAS443:3:23:829:381#0/1
`bbbbbbbbb`aaaaaaa]aa^aaaa]^ab_b`aa_aaaa_
@HWI-EAS443:3:23:851:1954#0/1
CGAGTCTGGACGGATCAAGAAAGAAGAGTTCTCTGAGATC
+HWI-EAS443:3:23:851:1954#0/1
abbaVa`]^a[ba_Z¥ba`_`aa`a¥a^XaZ_aa_a`]^P
@HWI-EAS443:3:23:856:735#0/1
TCTCTTATTTCAGTCTTTGTTTTTTCTTCCCTATTGTTCTT
+HWI-EAS443:3:23:856:735#0/1
abaaaaaaaaaaaaaaa`aaaab_aaaaa_aa`_a`a`a^a_a`
@HWI-EAS443:3:23:898:146#0/1
GGGCTCCAATCATCCGACGATTTTGCTCTCATAGTGAATG
+HWI-EAS443:3:23:898:146#0/1
abaaaaabba`aaa_aaaaa`aa`a^`_`___`_]a^_]`
@HWI-EAS443:3:23:920:946#0/1
ATGGGCTCCAATCATCCGACGATTTTGCTCTCATAGTGAA
+HWI-EAS443:3:23:920:946#0/1
`TU^_a_a`[]_Z`]YPY¥Q_Z_[]___W_ZR]N]ZUa_W
@HWI-EAS443:3:23:932:19#0/1
ACGGTCTTGGGAGTCTCGATACTGAATCTTGGACAAAAGA
+HWI-EAS443:3:23:932:19#0/1
`b_bWaba]``ab[``T^aa]_aa[aa`aaX¥Y]`_Y]___
@HWI-EAS443:3:23:953:103#0/1
CCCCGAGTGGTTCAGAAACATCCTGAGCATGGCACCCATAA
+HWI-EAS443:3:23:953:103#0/1
a`bbbbbbbbb_b^bbaab_aaaaaaaaa_ab`_^_H`a`_`_`_
@HWI-EAS443:3:23:957:307#0/1
GATTCTTCAAGGAAAGCCATAGCCTCTAGAACACAGTCTG
+HWI-EAS443:3:23:957:307#0/1
aa`a_a_____a`_]`^¥_^^`_[X^X]Q]_^Z]UY^WZ^B
@HWI-EAS443:3:23:967:1978#0/1
GAAGAGCCATCTGGGCCGTTGCAGGTCCAAGGTCATTGTT
+HWI-EAS443:3:23:967:1978#0/1
aa`TZ]^bbaY_]WX`YUZZ¥W]aYFY¥¥JYZGMP^PUVL
@HWI-EAS443:3:23:975:1314#0/1
GAGGAAATAGAGATAACAACCCACTTTCAAAGAAAAAGGA
+HWI-EAS443:3:23:975:1314#0/1
¥^ababbbabbbbaababba_abaa_a^baab`aaaaaaa
@HWI-EAS443:3:24:1024:231#0/1
CAGATCTTCATGATCTCAGAGAACTTTCTTTCTTGATCC
+HWI-EAS443:3:24:1024:231#0/1
`b`bbba`ba_aa`UbTa^ab_aabYaa_abaaaaa¥a_]`
@HWI-EAS443:3:24:1065:1619#0/1
GACAACATGACCAAGAAGATGGTCACGCAAAGAACAATAG
+HWI-EAS443:3:24:1065:1619#0/1
aa¥_b`bV_b¥^T_bab]a^¥^^`bJ]^aT[b`aK_``aa
@HWI-EAS443:3:24:1066:1673#0/1
ATTGATGCCAGGTCGACTTCGAGTCTGGACGGATCAAGA
+HWI-EAS443:3:24:1066:1673#0/1
aZa`bZ`aa]^b[HY^aUR[TKVNS¥`a]R[Z_]RTL`_U

@HWI-EAS443:3:24:1074:973#0/1
GCTAATTTTAGCATGGAGCTACCCAGCTTTGGAGTGTCTG
+HWI-EAS443:3:24:1074:973#0/1
]_a`]'`_`a___aa`a___a`]_^]]``aaa`_S`Y]a
@HWI-EAS443:3:24:1092:1151#0/1
GATTGATGCCAGGGTCGACTTCGAGTCTGGACGGATCAAG
+HWI-EAS443:3:24:1092:1151#0/1
aaaabaaaaaaaa[a_`_a__``_V_a[_PX``ZZ^`a_
@HWI-EAS443:3:24:1097:1715#0/1
GAAGAATCCCACCCAGGAATATTTGAGAATTCATGCCTTG
+HWI-EAS443:3:24:1097:1715#0/1
aaaZ`baab_bbaaaaaaaaaa_aab^b`aaaa_^a`_^a
@HWI-EAS443:3:24:1105:2034#0/1
ATGGCTTTCCTTGAAGAATCCCACCCAGGAATATTTGAGA
+HWI-EAS443:3:24:1105:2034#0/1
`aa_``¥`Z`Y`Q`a]¥bWY`_]PZ¥^¥^_____]T[
@HWI-EAS443:3:24:1142:1700#0/1
CCCGAGTGGTTCAGAAACATCCTGAGCATGGCACCCATAA
+HWI-EAS443:3:24:1142:1700#0/1
abY¥SS¥[VaYyb^Vb_0_V_bI[_baa][bba``Paaab
@HWI-EAS443:3:24:1143:1047#0/1
AATTGAAGAGCCATCTGGGCCGTTGCAGGTCCAAGTTCAT
+HWI-EAS443:3:24:1143:1047#0/1
abaa`abaab`aaa^a_a`^_a__]]]a_Y`Ya_a_Y¥__
@HWI-EAS443:3:24:1149:1720#0/1
GTTGCGATAGCCCTTCTTTTAACTTGCCTCTCTCTGCAT
+HWI-EAS443:3:24:1149:1720#0/1
a_a``aaaa`a]a_aa__aa`^NZZV^`_`__[^`^^Z^^
@HWI-EAS443:3:24:1169:1438#0/1
GATCATTTGAGTTAAAGAAGCTGTGGGATCAAACCAATC
+HWI-EAS443:3:24:1169:1438#0/1
`baabbbbbbbbabbb`babbaba`a`aa_babaabba`a
@HWI-EAS443:3:24:1169:270#0/1
AGGGTACATGTTTCGAGAGTAAAAGAATGAAGATTGGAACA
+HWI-EAS443:3:24:1169:270#0/1
Ta`X`b[V`]a`^`^`aUaaa`_`aabaab_a`[^aa`^`
@HWI-EAS443:3:24:1174:513#0/1
AGGCATGAATTCTCAAATATTCCTGGGTGGGATTCTTCAA
+HWI-EAS443:3:24:1174:513#0/1
aa`ba^¥`^^^`_U]¥`_bbYVHa`XaRaba`^`_aa_`]
@HWI-EAS443:3:24:1181:101#0/1
CAATTGAAGAGCCATCTGGGCCGTTGCAGGTCCAAGGTCA
+HWI-EAS443:3:24:1181:101#0/1
`bbbbbbbbbbbbbbbbbbbbbbbababb`bbbaababb_aa
@HWI-EAS443:3:24:1196:1190#0/1
CTCCAATCATCCGACGATTTTGCTCTCATAGTGAATGCAC
+HWI-EAS443:3:24:1196:1190#0/1
`bbbbbbbbbbbbbbabaabbbbaababaab`baaaa]a_
@HWI-EAS443:3:24:1210:595#0/1
TGAATCTTGGACAAAAGAAATACACCAAGACAATATACTG

+HWI-EAS443:3:24:1210:595#0/1
RU]_____a`V¥^`baaaaa^TWRQV_Z¥]a^¥b[aa_a]
@HWI-EAS443:3:24:1212:1758#0/1
GAGAGAGGCAAGTTAAAAAGAAGGGCTATCGCAACACCTG
+HWI-EAS443:3:24:1212:1758#0/1
`UaK`^]Z¥^Ya`a^)]_aba]Sa[`]_[[Y¥¥[a[]a¥
@HWI-EAS443:3:24:1220:1100#0/1
GCAACGGCCAGATGGCTCTTCAATTGTTTCATCAAAGACT
+HWI-EAS443:3:24:1220:1100#0/1
aaaaa`_abaM]`_^a_`_`_]a^`WTT_____^¥_X0^
@HWI-EAS443:3:24:122:1106#0/1
GTCTGGAGTAAATGAATCAGCTGACATGAGTATTGGAGTA
+HWI-EAS443:3:24:122:1106#0/1
aaa]abab_bb_aaa_aaa`aaa_aa`a`a]`_`a```]a
@HWI-EAS443:3:24:1256:752#0/1
AACCAAGTGGGTATGCACAAACAGACTGTGTTCTAGAGGC
+HWI-EAS443:3:24:1256:752#0/1
abaaabb_¥T¥_b_¥_`aaaaXab__`b[a__U_¥aX_a]
@HWI-EAS443:3:24:1288:472#0/1
GACGGATCAAGAAAGAAGAGTTCTCTGAGATCATGAAGAT
+HWI-EAS443:3:24:1288:472#0/1
aa`ab`aaaaaba`aaaaRa_a_a`aaaP_aaa^a`a
@HWI-EAS443:3:24:1289:958#0/1
GCTTGATTCCCTCATGGTTTGGTGCATTCACTATGAGAG
+HWI-EAS443:3:24:1289:958#0/1
aa``aaba_a¥a`Sa¥¥H_aa`Y__`a_Q`¥aa__Z]]_
@HWI-EAS443:3:24:1320:623#0/1
GTCCTCCATCTGATACTAATAGCCCTACCTTTGATTGGGT
+HWI-EAS443:3:24:1320:623#0/1
aZYa_]Y¥^]Z__TXWYaaaa]¥[]`[^V_a_ZZ]_WQIP
@HWI-EAS443:3:24:1385:838#0/1
TTTATGACTGACAAAGGGATTACAGGGATTACAAAGTCTT
+HWI-EAS443:3:24:1385:838#0/1
[`bbbaa_^]¥bbb`^`[Xa[[abU]0^]a`abab¥U]a
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+HWI-EAS443:3:24:1412:120#0/1
]bbbbbabababbbabbbbbb`bbabbbb`bbbbbb^abb
@HWI-EAS443:3:24:1434:350#0/1
GCTGGCATTACCACAGCATTGTTTACAGAATCAATCTCTT
+HWI-EAS443:3:24:1434:350#0/1
a_aaaa`aa_U_`_aZSZ`^`^]`US]a]_^R[^ZZ]__
@HWI-EAS443:3:24:1470:1564#0/1
GAACAATTGAAGAGCCATCTGGGCCGTTGCAGGTCCAAGG
+HWI-EAS443:3:24:1470:1564#0/1
abaabbbbabbab__aaa_____a`a`]a`[aa_T¥a`a`a
@HWI-EAS443:3:24:1491:1734#0/1
CTAGGAGCATTTGCGAAAAGCTTGAACAGTCTGGGCTCCC
+HWI-EAS443:3:24:1491:1734#0/1
aWZSTX[H]aaaaSba`Ja]WYXba[Q`RTRbWTNEPXXW

@HWI-EAS443:3:24:1539:1014#0/1
CAGCTGATTCATTTACTCCAGACACTCCAAAGCTGGGTAG
+HWI-EAS443:3:24:1539:1014#0/1
abbaa`Z`a`a¥`^`_`^`[¥a¥^aaa¥`_`^Z]`a`_`^`_`_`
@HWI-EAS443:3:24:1570:889#0/1
ATCCGACGATTTTGTCTCATAGTGAATGCACCAAACCAT
+HWI-EAS443:3:24:1570:889#0/1
abba^^Y`_`b`ZU]Z`__a`a^a___aY]O[¥^`YY^`
@HWI-EAS443:3:24:1594:1539#0/1
AACAGATCTTCATGATCTCAGAGAACTCTTCTTTCTTGAT
+HWI-EAS443:3:24:1594:1539#0/1
`¥Y]XRa_a^FZX[W_ZTX`TXa]^¥`¥^`Y_^_Xa__^^
@HWI-EAS443:3:24:1630:1094#0/1
GCCCTTCTTTTTAACTTGCCTCTCTCTGCATCTTTGGTCA
+HWI-EAS443:3:24:1630:1094#0/1
`^aababbbbaa`baba_baaaa_aa`_a`aaaa_Z_
@HWI-EAS443:3:24:1637:537#0/1
GAGCTAATGGATGATGATTATCGGGGAAGACTTTGTAATC
+HWI-EAS443:3:24:1637:537#0/1
a`aU`Za`X_aaHNZa`_`UNZ]^`^YO]YRa]R]]U]^B
@HWI-EAS443:3:24:1668:566#0/1
TGATTATCGGGGAAGACTTTGTAATCCCCTGAATCCCTTT
+HWI-EAS443:3:24:1668:566#0/1
`b[aab_V[_Vba`a_^Vaa][`_`YT^)`TY`_`XQ][__
@HWI-EAS443:3:24:1700:735#0/1
GAAGTACTTCAGGTCAATGCTTGCTAGCATTCTGCTGGT
+HWI-EAS443:3:24:1700:735#0/1
abbb[`]baabba^a]_b_^babab`bXabba`ba]b¥aY
@HWI-EAS443:3:24:1705:35#0/1
AAAAATTCCAGCGCAAATGCCATAAGCACCATTCCT
+HWI-EAS443:3:24:1705:35#0/1
Xaba`¥bbaabbaU]Ua`aa][`b`^aY`X[_^]¥aNN[]
@HWI-EAS443:3:24:1718:1223#0/1
ATGGGCTCCAATCATCCGACGATTTTGTCTCATAGTGAA
+HWI-EAS443:3:24:1718:1223#0/1
`ba`_`_`[aTa`a_a_]JT[SNZ^[WaUQ]X^^¥^V_BBBB
@HWI-EAS443:3:24:1722:1770#0/1
AATAGAACGATTCCTCTTGGGAATCCAGGAATGTGTAGTT
+HWI-EAS443:3:24:1722:1770#0/1
abb^[^bab_^]_[_Y`_`_`a_aY^T]a_S]¥`X_W^¥^]
@HWI-EAS443:3:24:1729:824#0/1
GGCTAATTTTAGCATGGAGCTACCCAGCTTTGGAGTGTCT
+HWI-EAS443:3:24:1729:824#0/1
_b[`bbb`a]`bb_abaX_ab^a_`_`b^a]_a_^_aa_^^
@HWI-EAS443:3:24:1777:1624#0/1
GACAACATGACCAAGAAGATGGTCACGCAAAGAACAATAG
+HWI-EAS443:3:24:1777:1624#0/1
aaabaa`aaa0`b`_`_`¥a`]]VaXa_`^`____X`Z`_`_`
@HWI-EAS443:3:24:194:258#0/1
CATTCTGAAGTCTGCTTAAAATGGGAGCTAATGGATGAT

+HWI-EAS443:3:24:194:258#0/1
a_bbbbabbaabbabbabb_bbbbbabaababba`abaa
@HWI-EAS443:3:24:219:487#0/1
TGTGAAAGAAATCTCTGTGTCTTGTGAATTAGTCATCATC
+HWI-EAS443:3:24:219:487#0/1
ab^_U¥^_``[abbabaaabaa`T`XV]aaaV``YV¥` [
@HWI-EAS443:3:24:220:316#0/1
AAACAATGCTGTGGTAATGCCAGCCCATGGTCCAGCCAAA
+HWI-EAS443:3:24:220:316#0/1
``]``Z__aa[VY¥]RW`XWLRZZYYZUTGNRTYXKYTU
@HWI-EAS443:3:24:227:860#0/1
GATGGCTCTTCAATTGTTTCATCAAAGACTACAGATACACA
+HWI-EAS443:3:24:227:860#0/1
WQV_HXV`aaaa_0^V_^_Z`XZW_XaaY`]VNY][[L]
@HWI-EAS443:3:24:230:1380#0/1
CAGGAACAGGATACACCATGGACACAGTAAACAGAACACA
+HWI-EAS443:3:24:230:1380#0/1
aaa]^`__YZ__a`_a_] [YJY^Z^_WPW^^Z`WQ]_]X^
@HWI-EAS443:3:24:247:361#0/1
GGCCGTTGCAGGTCCAAGGTCATTGTTTATCATGTTGTTC
+HWI-EAS443:3:24:247:361#0/1
`baba0_SXZ`_P__aabG`[^a`_aa[]LW^X_``]WY
@HWI-EAS443:3:24:275:259#0/1
CCTCCATCTGATACTAATAGCCCTACCTTTGATTGGGTTT
+HWI-EAS443:3:24:275:259#0/1
ab`bbbabbbbb`bbaba_]aaa`¥_baaaa`aaa[^_
@HWI-EAS443:3:24:288:1592#0/1
GACGGATCAAGAAAGAAGAGTTCTCTGAGATCATGAAGAT
+HWI-EAS443:3:24:288:1592#0/1
abbbbbaaa`bbba_ab]b`aaaabba_]`a`aab_b^aa
@HWI-EAS443:3:24:373:1714#0/1
CTTTTGTCCAAGATTCAGTATCGAGACTCCCAAGACCGTA
+HWI-EAS443:3:24:373:1714#0/1
abbbb`abbbbbbaabaa¥baaaaa_[aaaaaaaa`¥[^a
@HWI-EAS443:3:24:375:1978#0/1
ATCCCACCCAGGAATATTTGAGAATTCATGCCTTGAACA
+HWI-EAS443:3:24:375:1978#0/1
T^a`aa`]_W^`Z[Z]WS`L^_RQ[YW[a^P][NTZWb
@HWI-EAS443:3:24:379:554#0/1
GGGCTATTAGTATCAGATGGAGACCAAACCTTATACAATA
+HWI-EAS443:3:24:379:554#0/1
_V]_Xaa¥^]]a^`¥`_[V`Z^`__[a_[]`^`Q[`__
@HWI-EAS443:3:24:460:1888#0/1
AATACTCAGAAAAGGGAAAGTGGACGACAAACACAGAGAC
+HWI-EAS443:3:24:460:1888#0/1
abaabb`_bbbb^)`aaaa[VZI`a`aaabZ]_`_a_a^
@HWI-EAS443:3:24:460:567#0/1
CAAAGAAGAAAATTGAGAAAATAAGGCCTCTTCTAATAGA
+HWI-EAS443:3:24:460:567#0/1
ab¥aba_ab`a`bbbabaaaaaa_aaaaaaaaaWaaaa

+HWI-EAS443:3:24:835:1380#0/1
abbb`aaa`abbbbaaaaaS__a_```]a¥_]``^`__^_
@HWI-EAS443:3:24:839:100#0/1
AACAGATCTTCATGATCTCAGAGAACTCTTCTTTCTTGAT
+HWI-EAS443:3:24:839:100#0/1
aa]abababbabbb_a_aaaa_aaa`a_aa^aaa_a_a^a
@HWI-EAS443:3:24:841:677#0/1
ATGATGATTATCGGGGAAGACTTTGTAATCCCCTGAATCC
+HWI-EAS443:3:24:841:677#0/1
ab``ababaa_`a^`a_aaa`aa_a_a```][_Za`__]]_
@HWI-EAS443:3:24:860:272#0/1
ATTAGTATCAGATGGAGGACCAAACCTTATACAATATACGG
+HWI-EAS443:3:24:860:272#0/1
aa_^aaa`¥_^)`aZY]S_¥P[]`a]aaYS]S[[`^L¥Y
@HWI-EAS443:3:24:873:1889#0/1
ATTCCATGCTTTTGGCTGGACCATGGGCTGGCATTACCAC
+HWI-EAS443:3:24:873:1889#0/1
aa[aY`[aaaU^_^aZQ_Z_]RPVWVZYI^Wa^[UMUYT¥
@HWI-EAS443:3:24:936:1343#0/1
GGCTAATTTTAGCATGGAGCTACCCAGCTTTGGAGTGTCT
+HWI-EAS443:3:24:936:1343#0/1
abaabaaaaaaa`aa_````aa`a`_a``a`¥aWa^`_
@HWI-EAS443:3:24:950:39#0/1
ACCCGATTGATGGACCACTACCTGAGGATAATGAACCAAG
+HWI-EAS443:3:24:950:39#0/1
a```_bbba_bba¥S`]aa`UabXbb[aa`aa`a[Y_ab
@HWI-EAS443:3:24:960:1980#0/1
GACCAAGAAGATGGTCACGCAAAGAACAATAGGGAAGAAA
+HWI-EAS443:3:24:960:1980#0/1
SWXab`Zb[R[M^0[]T_XXXY`)`¥^T]a```^aab¥b^
@HWI-EAS443:3:24:984:788#0/1
CTTGTGTTGAGAATAGAACGATTCCTCTTGGGAATCCAGG
+HWI-EAS443:3:24:984:788#0/1
`bbbababbbbbbabbbaa`aaa^bYaaaaaaa`a`a_a
@HWI-EAS443:3:24:990:35#0/1
AATCAACCCGAGTGGTTCAGAAACATCCTGAGCATGGCAC
+HWI-EAS443:3:24:990:35#0/1
aabaab`aaa_baaa_Y```]aa]_`]_^_¥_]`YV]U
@HWI-EAS443:3:25:1007:1506#0/1
AGCTGATTCATTTACTCCAGACACTCCAAAGCTGGGTAGC
+HWI-EAS443:3:25:1007:1506#0/1
`ab`bbbbbbbabbaabaaa_Zbab`aba`a`aaaaY`^`
@HWI-EAS443:3:25:1064:837#0/1
TCAGCTGACATGAGTATTGGAGTAACAGTGATAAAGAACA
+HWI-EAS443:3:25:1064:837#0/1
[[^bb¥`a^]aaaa_a^aa_Y_^]]Y_a^¥`__a_Z¥ZG_
@HWI-EAS443:3:25:1067:208#0/1
CAGATACACATATAGGTGCCATAGGGGAGACACAAATT
+HWI-EAS443:3:25:1067:208#0/1
``abbbbaabbbbababbabb`bab`b`aa¥bWabbba

@HWI-EAS443:3:25:1081:1038#0/1
ACAACATGATAACAATGACCTTGGACCTGCAACGGCCCA
+HWI-EAS443:3:25:1081:1038#0/1
aa^_]Z_VX¥]WYXN^aTWLQ`SZ]PL]S]WW]TTS[[^B
@HWI-EAS443:3:25:1146:1998#0/1
TGGCCAATGCAGTTGCTGCCGTTGATTTCTGTTAATGT
+HWI-EAS443:3:25:1146:1998#0/1
_¥`a`a¥Z¥``UT_Xa[_YW_UUZWTV_OU¥MFYZY_OPH
@HWI-EAS443:3:25:1310:1536#0/1
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+HWI-EAS443:3:25:1310:1536#0/1
YU]`¥_TI0¥^V¥`S_^a^]WYZRYX]]^VT_XEX__U
@HWI-EAS443:3:25:1356:1230#0/1
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+HWI-EAS443:3:25:1356:1230#0/1
abbbbbbb`bbabaa`baa`b`]aaa_aa¥a`a_b`Y`aaa
@HWI-EAS443:3:25:1387:2035#0/1
ATCTCTGTGTCTTGTGAATTAGTCATCATCTTTCTCACAA
+HWI-EAS443:3:25:1387:2035#0/1
aaaa`aa¥a`aaa`^[][_a_aUZa_[]`^a`a^¥__]_`
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CCGGCAGCAACTGCATTGGCCAACACCATAGAAGTCTTTA
+HWI-EAS443:3:25:1393:970#0/1
a`aa_¥ab`bbbbbbaa]]]¥¥aX_V]W`WSZ`TR[Z[[Z
@HWI-EAS443:3:25:1402:1619#0/1
TTAGCCTTCCTGACTCATTAGCTGTTAGCCATTCGATCT
+HWI-EAS443:3:25:1402:1619#0/1
aa`]`_aaa_baaaa^aa`_]a`_^U¥^Z__^_]_]¥Y_
@HWI-EAS443:3:25:1420:1591#0/1
ACGAAACCTCTAATCTGCATCCCAGGTGTTGCGATAGCCC
+HWI-EAS443:3:25:1420:1591#0/1
`aU^Ub`S¥S¥bbaI`¥¥Z`a]Q`a^Wb^a_JXaT^_X[R
@HWI-EAS443:3:25:1460:1113#0/1
CTTCTTTTCATTGCCCCCTACTGGGAGCCCAGACTGTTCA
+HWI-EAS443:3:25:1460:1113#0/1
aba_¥bbb`abababb_W_a[a`bZaa`]`aaba`ab`a`b
@HWI-EAS443:3:25:1462:1823#0/1
AGAACTCTTCTTTCTTGATCCGTCAGACTCGAAGTCGAC
+HWI-EAS443:3:25:1462:1823#0/1
^^_aa_aabbbb```baab`_]_W]a]_]`_`_a_ZZZ`X
@HWI-EAS443:3:25:1496:1710#0/1
CTTTAAGAAATCTATTAGCCTTCCTGACTCATTAGCTGTT
+HWI-EAS443:3:25:1496:1710#0/1
^`bbbabababbbbabba`bbb`bbabbabab`abbbbb
@HWI-EAS443:3:25:1539:1107#0/1
CAAATATTCCTGGGTGGGATTCTTCAAGGAAAGCCATAGC
+HWI-EAS443:3:25:1539:1107#0/1
aa^abbab`ba¥`¥abb_bba``abbaabba`a[^bba`[
@HWI-EAS443:3:25:1541:1819#0/1
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+HWI-EAS443:3:25:1541:1819#0/1
abbaba`bbbaabbbbbbbbaaabbbbaababbbbaaaaa
@HWI-EAS443:3:25:1543:676#0/1
AAAAATTCCAGCGCAAATGCCATAAGCACCATTCCT
+HWI-EAS443:3:25:1543:676#0/1
abbb`bbaaaaa`aba_aaaaaaaaa_a`^_`a_`]]Va
@HWI-EAS443:3:25:1580:538#0/1
AGGAAATAGAGATAACAACCCACTTTCAAAGAAAAAGGAG
+HWI-EAS443:3:25:1580:538#0/1
^^b`aZaab¥¥¥b^b¥bbY_La]_b^T`S[aaSZZ][J^
@HWI-EAS443:3:25:1604:1391#0/1
GGGCTCCAATCATCCGACGATTTTGCTCTCATAGTGAATG
+HWI-EAS443:3:25:1604:1391#0/1
aba]]a_a¥VUPXV^UN__NUQ¥`_`HXNZNSWQRNVTT^_
@HWI-EAS443:3:25:1609:1242#0/1
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+HWI-EAS443:3:25:1609:1242#0/1
¥_`^`[`aaaa```a¥¥a`^]`a`b_Q_¥bbaaa_Y`ab`]
@HWI-EAS443:3:25:1609:737#0/1
CATTCTTTTACTCTCGAACATGTACCCTTTCCCTAGTCTT
+HWI-EAS443:3:25:1609:737#0/1
ab^aUa`ba_aaaaa`¥`babb`I`bb`bK`b`b]]ab
@HWI-EAS443:3:25:1688:447#0/1
CCGGTCTCTATATGAACTGCTAGGGAAAAATTTCTCGAA
+HWI-EAS443:3:25:1688:447#0/1
[````X`abbaa`aa`bbb__b`aabbbbab`a`Ybba
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+HWI-EAS443:3:25:1693:1191#0/1
abbbbbbbbbbbbbbbbbbbabbabbabbaaaZbabb^_a
@HWI-EAS443:3:25:207:202#0/1
CCCAGGTGTTGCGATAGCCCTTCTTTTTAACTTGCCTCTC
+HWI-EAS443:3:25:207:202#0/1
a_aa`R_aaaaabb_WJ]`¥aaabba`¥Z_b_a]]baaX
@HWI-EAS443:3:25:210:1071#0/1
CCCCTAACTTGCAGGTCCTGTAGAATCTGTCCACTCCTG
+HWI-EAS443:3:25:210:1071#0/1
abbb^bba^`a`aaaaZb``____a__a`RQ__ZVa`^R
@HWI-EAS443:3:25:210:654#0/1
AAAAGAATGAAGATTCGAACACAAATACCAGCAGAAATGC
+HWI-EAS443:3:25:210:654#0/1
aW^baa^aaaa__aa]____`_a`[a`]]__a_`^[I^`_^
@HWI-EAS443:3:25:253:2015#0/1
CAATTGAAGAGCCATCTGGGCCGTTGCAGGTCCAAGTCA
+HWI-EAS443:3:25:253:2015#0/1
a_`aaa__GX]b`W^aU^PTSa`^Y^Z_YYMZY]`XYLV`
@HWI-EAS443:3:25:286:1002#0/1
GCGAAAAGCTTGAACAGTCTGGGCTCCCAGTAGGGGGCAA
+HWI-EAS443:3:25:286:1002#0/1
`^_`^`_O¥aX¥]Y]Y¥^PYY]S¥YSY[^¥^TS¥[MZW_¥Y

@HWI-EAS443:3:25:296:1702#0/1
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+HWI-EAS443:3:25:296:1702#0/1
abbbbabbbbabababbbbaa]_abaabaabb_ZYaabaa
@HWI-EAS443:3:25:318:409#0/1
GATTGATGCCAGGGTCGACTTCGAGTCTGGACGGATCAAG
+HWI-EAS443:3:25:318:409#0/1
`aa^_a`aaaa][¥Pa`a^P^_a`S¥`a]Z[_]NUZ_Z^
@HWI-EAS443:3:25:369:486#0/1
TAATGAACCAAGTGGGTATGCACAAACAGACTGTGTTCTA
+HWI-EAS443:3:25:369:486#0/1
X`YWZRX]TUIRU``_Y]`ZQaZ`_a`^a`X^QHWa¥_V
@HWI-EAS443:3:25:403:2004#0/1
AATCTGTCCACTCCTGCTTGTATTCCCTCATGGTTTGGTG
+HWI-EAS443:3:25:403:2004#0/1
ab_[_[]`a`_]aa``____Z____a^^_]^[W[]¥^X[
@HWI-EAS443:3:25:41:285#0/1
CTTTAAGAAATCTATTAGCCTTCCTGACTCATTAGCTGTT
+HWI-EAS443:3:25:41:285#0/1
^abbb`aa¥abbbb`¥a¥¥`[[ab`_ba¥^ab`b``[_
@HWI-EAS443:3:25:451:1678#0/1
AGCTGATTCATTTACTCCAGACTCCAAAGCTGGGTAGC
+HWI-EAS443:3:25:451:1678#0/1
a`baab`abbaabaaaR`ZUaa[_a[aa^_Z^`WNWWW
@HWI-EAS443:3:25:454:718#0/1
TGGGTGGGATTCTTCAAGGAAAGCCATAGCCTCTAGAACA
+HWI-EAS443:3:25:454:718#0/1
a`aa]aaa`aaa`aaaa```aa_____`^__^^¥^X_
@HWI-EAS443:3:25:463:2033#0/1
ACTACACATTCCTGGATTCCCAAGAGGAATCGTTCTATTC
+HWI-EAS443:3:25:463:2033#0/1
aa`baaaa`^ba^[Z_]`^`_`_`[`]¥__Y^XXZ¥X`]X]
@HWI-EAS443:3:25:525:349#0/1
CGTTCTATTCTCAACACAAGCCAAAGGGGAATTCTTGAGG
+HWI-EAS443:3:25:525:349#0/1
aa`bbbbbbbbbbbbbbba`_aa_b`ba`aa`_baa_ba
@HWI-EAS443:3:25:538:373#0/1
AAAAATTTCTCGAATAGATTGCAGCACTTCTGGTACATCT
+HWI-EAS443:3:25:538:373#0/1
aabbbbabaaabaaaaaa`__aa`a^`__a`__aaa_]`
@HWI-EAS443:3:25:540:1382#0/1
CGATTGATGGACCACTACCTGAGGATAATGAACCAAGTGG
+HWI-EAS443:3:25:540:1382#0/1
abbabbaaaabbababbbbaaaa`abaaaabaaaaa_aa
@HWI-EAS443:3:25:545:713#0/1
TGCTTATGGCATTTTTCGCTGGAATTTTTAGGAAAAGTAG
+HWI-EAS443:3:25:545:713#0/1
a`aba^b``]`^a_WY^Zba`Z^a_aaa^`Y^``_b]a`
@HWI-EAS443:3:25:552:138#0/1
CTGGGATGCAGATTAGAGGTTTCGTATACTTTGTTGAAAC

+HWI-EAS443:3:25:552:138#0/1
a[_[aa`a`[V____`V`X^¥aaS]_`_^_^ZZ^¥X]ZY
@HWI-EAS443:3:25:55:162#0/1
CCCAGGTGTTGCGATAGCCCTTCTTTTTAACTTGCCTCTC
+HWI-EAS443:3:25:55:162#0/1
`bbbb`b_`aaZ__abaaaa_]_a_Y^¥_``_a_a__
@HWI-EAS443:3:25:561:58#0/1
CCCAGTGATTGTGAAAGAAATCTCTGTGTCTTGTGAATTA
+HWI-EAS443:3:25:561:58#0/1
K`¥a^Z_`bb_^¥__bbbbbb_bbbba^baaba[^`Y`a]
@HWI-EAS443:3:25:565:1373#0/1
ATGCAGAGAGAGGCAAGTTAAAAAGAAGGGCTATCGCAAC
+HWI-EAS443:3:25:565:1373#0/1
^abbbabba_^`abbaa[aaaaaaaaa___a_a__^`aa_
@HWI-EAS443:3:25:583:621#0/1
GAACAATTGAAGAGCCATCTGGGCCGTTGCAGGTCCAAGG
+HWI-EAS443:3:25:583:621#0/1
`UY[aUHV¥]_`R`X^]WVL[[ZS¥_ZX_RJRUHITXV]V
@HWI-EAS443:3:25:636:1326#0/1
GGTCTCCATCTGATACTAATAGCCCTACCTTTGATTGGG
+HWI-EAS443:3:25:636:1326#0/1
aaT`a]SZW¥^RRHLYZS¥_LY]`ZPR^aaTR_`WWW_`B
@HWI-EAS443:3:25:64:867#0/1
GGTGTCTAGGGCCCGATTGATGCCAGGGTCGACTTCGAG
+HWI-EAS443:3:25:64:867#0/1
aa[a_b][__`baaaaaaaaa^aa`]^`Uaa¥^^Y^[[`
@HWI-EAS443:3:25:658:640#0/1
TCCTGCTTGTATTCCCTCATGTTTGGTGCATTCACTATG
+HWI-EAS443:3:25:658:640#0/1
^YVTQRa`_FZa[¥STVaaWTT^]HMQRXU]RXXNZ_¥R
@HWI-EAS443:3:25:700:1755#0/1
AACAGATCTTCATGATCTCAGAGAACTCTTCTTTCTTGAT
+HWI-EAS443:3:25:700:1755#0/1
`baaa`[_`aab__a^a`_a_`^a``__^^]___U`_^_`^
@HWI-EAS443:3:25:720:638#0/1
TAAAAATTCCAGCGCAAATGCCATAAGCACCATTCCTC
+HWI-EAS443:3:25:720:638#0/1
¥a_X]X^a¥W]Z]¥¥`baaWQWX_]_VU¥¥P_`V_VZPJ0
@HWI-EAS443:3:25:749:2022#0/1
AAAACAAAGACTGAATAAGAGAGGCTATCTAATAAGAGCA
+HWI-EAS443:3:25:749:2022#0/1
ab`ba_¥aaabbbabba^_Q¥^X``aFPVV_U¥^ZLHDO
@HWI-EAS443:3:25:801:185#0/1
GAACAGATCTTCATGATCTCAGAGAACTCTTCTTTCTTGA
+HWI-EAS443:3:25:801:185#0/1
a`aa`aaaaaa`aaaaaa`a`a_a_____^^_
@HWI-EAS443:3:25:85:311#0/1
CCCAGTGATTGTGAAAGAAATCTCTGTGTCTTGTGAATTA
+HWI-EAS443:3:25:85:311#0/1
ababb`babaa^baabaa`baabaaZ_`aaa¥R¥_`a^_`

@HWI-EAS443:3:25:897:1542#0/1
CAGCAACTGCATTGGCCAACACCATAGAAGTCTTTAGATC
+HWI-EAS443:3:25:897:1542#0/1
abaabbbabbbbbbbaabbbabbbbbb`bbbaaaabbbaa_
@HWI-EAS443:3:25:916:629#0/1
CTCTATTTCTCTTTGTTTCATTGATTCCATTACATCCTTT
+HWI-EAS443:3:25:916:629#0/1
^bb^Xabbbbbb`bbbbbbbba`abbbabbbbbb
@HWI-EAS443:3:25:932:1941#0/1
ATGTCAATCCGACTCTACTTTTCTAAAAATCCAGCGCA
+HWI-EAS443:3:25:932:1941#0/1
a]W[bab`aaaX```_a¥¥^`_^a`a`a`_`]]^^____
@HWI-EAS443:3:25:973:20#0/1
CAGTAGGGGCAATGAAAAGAAGCCAAACTGGCAAATGT
+HWI-EAS443:3:25:973:20#0/1
abbabbbabbbbbbba`babbbbaababa
@HWI-EAS443:3:25:97:789#0/1
CTTCATGATCTCAGAGAACTCTTCTTTCTTGATCCGTCCA
+HWI-EAS443:3:25:97:789#0/1
`[¥_SWbabbb`_ababbbbbbba`_abbb
@HWI-EAS443:3:25:984:2006#0/1
GTCTGGGCTCCCAGTAGGGGCAATGAAAAGAAGCCAAA
+HWI-EAS443:3:25:984:2006#0/1
a\$¥]Q]ZTMUURTUNQ¥WQ[STWWWUUNWUTRRVTUQU
@HWI-EAS443:3:25:992:310#0/1
TGATTGGAGCCCATCCCACAGTATATTGTCTTGGTGTAT
+HWI-EAS443:3:25:992:310#0/1
abaaaa`baa^aaa`_] ^aX^_^`^^`^`^Y_YZ^
@HWI-EAS443:3:25:996:549#0/1
TCTGAGTATTGGTGTCTGTTTACTGTGCCATGGTGT
+HWI-EAS443:3:25:996:549#0/1
aabb`a`_`aba^a_a_a^aa`aa_^aa^a^X`_]`Z`Z
@HWI-EAS443:3:26:1006:1920#0/1
CTTTGTCAGTCATAAAGAGATTGATTCTGTAAACAATGCT
+HWI-EAS443:3:26:1006:1920#0/1
`bb`a¥baa_aba`baa`aa```aaa_aa[aaa`___a^_
@HWI-EAS443:3:26:1041:1579#0/1
ATGGGCTCCAATCATCCGACGATTTTGCTCTCATAGTGAA
+HWI-EAS443:3:26:1041:1579#0/1
^^ZLW^`_¥¥a`_¥U^_Z]¥]ZX¥`ZP_a¥^`^V^]H]a_
@HWI-EAS443:3:26:105:1893#0/1
GGCAAGACTAGGAAAGGTACATGTTTCGAGAGTAAAAGA
+HWI-EAS443:3:26:105:1893#0/1
aabb`_`aaabaaaa`^[a_Ubaaaa`abaaaa^aaaaa
@HWI-EAS443:3:26:1073:502#0/1
TGCCGTTGCAACTACACATTCCTGGATTCCCAAGAGGAAT
+HWI-EAS443:3:26:1073:502#0/1
^`aba^`_`aa`aaa^aaaa`^aa_aa¥]V`_a_^YW`_
@HWI-EAS443:3:26:1106:1228#0/1
CCCAGGTGTTGCGATAGCCCTTCTTTTTAACTTGCCCTC

+HWI-EAS443:3:26:1106:1228#0/1
_b[bb`a_abbabaa`ba`aababbbbaa_aaaaa[b_ba
@HWI-EAS443:3:26:1109:610#0/1
GAACAATAGGGAAGAAAAACAAAGACTGAATAAGAGAGG
+HWI-EAS443:3:26:1109:610#0/1
T_Zbbbbabbb]`¥bbbbbb`Y^`aa`bbb`bbabbaa`a
@HWI-EAS443:3:26:1140:249#0/1
TGTTTACTGTGCCATGGTGTATCCTGTTCCCTGTTCCATG
+HWI-EAS443:3:26:1140:249#0/1
__U[`Z`UZZ_Q][`aaaN]LZ[¥[`^]_YMY[¥TPMSYR
@HWI-EAS443:3:26:1156:685#0/1
GTGACTTCGAGTCTGGACGGATCAAGAAAGAAGAGTTCT
+HWI-EAS443:3:26:1156:685#0/1
aSb[__[`_a[aW`a]aaaYa^Y_Z_a]_`YV¥^Y_Q^VY
@HWI-EAS443:3:26:1171:1607#0/1
CTCCATCTGATACTAATAGCCCTACCTTTGATTGGGTTTG
+HWI-EAS443:3:26:1171:1607#0/1
ababbbbabbbababbbbaaaaa`_a_aaaaaaaaa]`_a
@HWI-EAS443:3:26:1177:1705#0/1
GTTGTGAGAAAGATGATGACTAATTCACAAGACACAGAGA
+HWI-EAS443:3:26:1177:1705#0/1
a]a^[^Z]`a_Z]aaa```V`a_aY___a`[^U_U__[`^
@HWI-EAS443:3:26:1193:890#0/1
GTGGGATTCTTCAAGGAAAGCCATAGCCTCTAGAACACAG
+HWI-EAS443:3:26:1193:890#0/1
a^aaa`a[aa_a_a^`^`^_a__`]__X]^__[]X]_
@HWI-EAS443:3:26:1208:442#0/1
GAGAATAGAACGATTCCTCTTGGGAATCCAGGAATGTGTA
+HWI-EAS443:3:26:1208:442#0/1
a_baaab`aaab`_`_`a]aa`_a__`_]_aa_````]`^^
@HWI-EAS443:3:26:1233:726#0/1
TGTCAGTGCTCTTATTAGATAGCCTCTCTTATTAGTCTT
+HWI-EAS443:3:26:1233:726#0/1
aa]`aa]`_a_aa```aa_`_]`[_`^`^`^`^]`_YY^_
@HWI-EAS443:3:26:1304:1310#0/1
ATACAAGCAGGAGTGGACAGATTCTACAGGACCTGCAAGT
+HWI-EAS443:3:26:1304:1310#0/1
aababaaaaabaa`aaaaa]_a_```_`_]YRYR[^_X
@HWI-EAS443:3:26:1318:925#0/1
TCTGTTTACTGTGCCATGGTGTATCCTGTTCCCTGTTCCA
+HWI-EAS443:3:26:1318:925#0/1
aabaabaa`bb]a[`aaabbYa^`aa[a_^a`aa`]a_Z[
@HWI-EAS443:3:26:1345:1603#0/1
ACAAAGTATACGAAACCTCTAATCTGCATCCCAGGTGTTG
+HWI-EAS443:3:26:1345:1603#0/1
aabbbbZbabaaaaaaaa_abb]^`aaaaaaaa``_0a__a
@HWI-EAS443:3:26:138:388#0/1
CTGGGTGGGATTCTTCAAGGAAAGCCATAGCCTCTAGAAC
+HWI-EAS443:3:26:138:388#0/1
`L_X]Xbb`¥a`aaaaXQYa`X_aa`_a_a^`_]`_a`[`

+HWI-EAS443:3:26:1649:494#0/1
aabbab^`aaaaY_[ab`aa_]Z`aaa_`_`aa^U^^Q[
@HWI-EAS443:3:26:1676:1985#0/1
GTCCTCCATCTGATACTAATAGCCCTACCTTTGATTGGGT
+HWI-EAS443:3:26:1676:1985#0/1
`¥bbbbbbbababbbbaaaa`_a`a_aaaaaaba`aa`_
@HWI-EAS443:3:26:17:449#0/1
GAAATCTATTAGCCTTCCTGACTCATTAGCTGTTAGGCCA
+HWI-EAS443:3:26:17:449#0/1
a_]abba`bababb`ba_aabbbbbaaaaaa[___Z___]V
@HWI-EAS443:3:26:224:971#0/1
GAAAAATTTCTCGAATAGATTGCAGCACTTCTGGTACATC
+HWI-EAS443:3:26:224:971#0/1
abbabaaababab`aaba_aaaaaa__a`_aa`]`a^a
@HWI-EAS443:3:26:245:424#0/1
GAAAATAAGGCCTCTTCTAATAGATGGCACAGCATCACTG
+HWI-EAS443:3:26:245:424#0/1
aa``aaa¥`Y`aaaaaaaa`_aa_]`a_`_`]]_U_^
@HWI-EAS443:3:26:24:148#0/1
GATGTACCAGAAGTGCTGCAATCTATTCGAGAAATTTTTC
+HWI-EAS443:3:26:24:148#0/1
^ab_T¥b`^a_[_¥aa^baaaaaaa]]^`_Z]]_a`_a_
@HWI-EAS443:3:26:251:437#0/1
CGATCTAAAGACTTCTATGGTGTGGCCAATGCAGTTGCT
+HWI-EAS443:3:26:251:437#0/1
aabababb`b`aaaab`aa`^`__aba`aaaa`a`[`a^a
@HWI-EAS443:3:26:265:690#0/1
TGATTATCGGGGAAGACTTTGTAATCCCCTGAATCCCTTT
+HWI-EAS443:3:26:265:690#0/1
abbbbaaaaa_baaa`aaaaZ_a[aaa`aaaa`_____^^
@HWI-EAS443:3:26:298:306#0/1
CTTTCCTTGAAGAATCCCACCCAGGAATATTTGAGAATTC
+HWI-EAS443:3:26:298:306#0/1
aYL]P]XT`Q]a`WS]]^a_¥`[^SK[S_Z][^]P[VS
@HWI-EAS443:3:26:300:1068#0/1
TGGGCTCCAATCATCCGACGATTTTGCTCTCATAGTGAAT
+HWI-EAS443:3:26:300:1068#0/1
aabaaaab`_`Raaaa`_T_a`[[a]¥^_`]]Wa^^Y
@HWI-EAS443:3:26:323:1885#0/1
TCCCTATTGTTCTTTGCGTGACCATCTTCTTGGTCATGTT
+HWI-EAS443:3:26:323:1885#0/1
aabbabba]aaaaaaba`_aa_a``aaaaa_]aaaa^_
@HWI-EAS443:3:26:333:785#0/1
GTCCAGACTCGAAGTCGACCCTGGCATCAATCCGGGCCCT
+HWI-EAS443:3:26:333:785#0/1
`U`X¥[`^a[^S[¥]VW`X^XW¥Z^]¥KZa¥V]Y`]Z
@HWI-EAS443:3:26:403:324#0/1
TAAACAATGACCTTGGACCTGCAACGGCCCAGATGGCTCT
+HWI-EAS443:3:26:403:324#0/1
¥¥_UXaYV]_aa__b_]_a^aY_S[]`]¥Y¥]H[S`R]X

+HWI-EAS443:3:26:726:2011#0/1
a_babaaaa`b`aa^`XTa`aaa`^`¥Z`__`_¥_Z`
@HWI-EAS443:3:26:748:682#0/1
GTGGGATTCTTCAAGGAAAGCCATAGCCTCTAGAACACAG
+HWI-EAS443:3:26:748:682#0/1
^]bbaa`a`a`aa`]^¥ba``_aaaa_a__a_a`[^X]]
@HWI-EAS443:3:26:787:411#0/1
ATTGGTGTGTTCTGTTTACTGTGTCCATGGTGTATCCTGT
+HWI-EAS443:3:26:787:411#0/1
abba__b`bababaabbbabbaaaaaaaaaa^a¥`_a¥]T¥
@HWI-EAS443:3:26:799:87#0/1
GATTGATGCCAGGGTCGACTTCGAGTCTGGACGGATCAAG
+HWI-EAS443:3:26:799:87#0/1
aKaa_a]WR`_`U^`VRZZU[X_VWZ[XQT^`SWSSSU
@HWI-EAS443:3:26:819:1808#0/1
CTAATAAGAGCACTGACATTAAATACGATGACCAAAGATG
+HWI-EAS443:3:26:819:1808#0/1
_a¥Jaa`Y`_bbaa`a¥bbaaa__`a``¥aaaa^_a_^
@HWI-EAS443:3:26:828:397#0/1
CAAGAATTCCCCTTTGGCTTGTGTTGAGAATAGAACGATT
+HWI-EAS443:3:26:828:397#0/1
aabbabbaabbababbbabab`b`a`_a`aaa_aa_a_¥_
@HWI-EAS443:3:26:839:119#0/1
CAAGATTCAGTATCGAGACTCCCAAGACCGTACTTAGCAT
+HWI-EAS443:3:26:839:119#0/1
aabaaaaTabb]__¥abaW`Y]aa¥bZP^P_aLYY^PZWV
@HWI-EAS443:3:26:841:1468#0/1
TGTTATCTCTATTTCTCTTTGTTTCATTGATTCCATTACA
+HWI-EAS443:3:26:841:1468#0/1
a¥aa`aaaaabaaaY^`aa_]`aa^`a`__`_aa`_`_`
@HWI-EAS443:3:26:911:1684#0/1
GTCTGCTTAAAATGGGAGCTAATGGATGATGATTATCGGG
+HWI-EAS443:3:26:911:1684#0/1
`Yaa_a^a`_]a`[X¥`_]__`_^]^^`_]_Z^W¥Z
@HWI-EAS443:3:26:984:895#0/1
CTCCAATACTCATGTCAGCTGATTCACTTACTCCAGACAC
+HWI-EAS443:3:26:984:895#0/1
ab`bbabbbbab`bb`a__aaaaaa]`a`aaaU__
@HWI-EAS443:3:27:1004:1161#0/1
AAAATTCCAGCGCAAATGCCATAAGCACACATTCCCTT
+HWI-EAS443:3:27:1004:1161#0/1
aaaa`a`a`a_]__aY]]`_a]]`_^]Y_Z^^Z]X]]
@HWI-EAS443:3:27:1039:46#0/1
TGCATTCACTATGAGAGCAAATCGTCCGATGATTGGAGC
+HWI-EAS443:3:27:1039:46#0/1
S__YV¥RXbbb`b_b]`[_^`U¥_Zabaa¥PVa_UPa[
@HWI-EAS443:3:27:1049:1146#0/1
CACATTCCCTGGATTCCCAAGAGGAATCGTTCTATTCTCAA
+HWI-EAS443:3:27:1049:1146#0/1
aaaaa`ab[M¥Uab`aa`aa]a_0_aab[_]¥aab`]¥aa

@HWI-EAS443:3:27:1067:121#0/1
CAACTGCATTGGCCAACACCATAGAAGTCTTTAGATCGAA
+HWI-EAS443:3:27:1067:121#0/1
abbaabbbababa]bbabY]ababb_baabababaaabaa
@HWI-EAS443:3:27:1085:1204#0/1
AAGAGCACTGACATTAATACGATGACCAAAGATGCAGAG
+HWI-EAS443:3:27:1085:1204#0/1
aaaaabaaaba_`aaaaaa`aa`_aa_]``_`^a^`a^`
@HWI-EAS443:3:27:1095:179#0/1
ATTTACTCCAGACACTCCAAAGCTGGGTAGCTCCATGCTA
+HWI-EAS443:3:27:1095:179#0/1
`ababab]abb]aa`aa_a`_^`Za^^_`¥^_W]_Z`V_`
@HWI-EAS443:3:27:1130:1533#0/1
ATTTGAGTTAAAGAAGCTGTGGGATCAAACCCAATCAAAG
+HWI-EAS443:3:27:1130:1533#0/1
aaab`aa_bbaaaaa`a`aZ^a`_]aa____Z____W`^^_
@HWI-EAS443:3:27:115:1026#0/1
CAACATTTGCCAGTTTGGCCTTCTTTTCATTGCCCCCTAC
+HWI-EAS443:3:27:115:1026#0/1
ab`abaa[b_a`aY`aXX¥VU[aa_[aa^^__a_a____`
@HWI-EAS443:3:27:115:1525#0/1
CATGTTGTTCTTTATCACTGTTACTCCAATACTCATGTCA
+HWI-EAS443:3:27:115:1525#0/1
[T0[_]]Ya```aa`_`a``[_`_^aa`]]^]¥¥WVY_
@HWI-EAS443:3:27:1169:1004#0/1
GTTGTTCTTTATCACTGTTACTCCAATACTCATGTCAGCT
+HWI-EAS443:3:27:1169:1004#0/1
^^abaabbbba`_]aaa^^XZa`_aa]aa`_`_] [WY¥[`
@HWI-EAS443:3:27:1172:595#0/1
ATGGTTTGGTGCATTCACTATGAGAGCAAAATCGTCGGAT
+HWI-EAS443:3:27:1172:595#0/1
a`_¥Wb¥bWV]]`aSS^XV`aa]a`Q[`] ^VR¥[[a^VY
@HWI-EAS443:3:27:119:245#0/1
ATTCCTGAAGTCTGCTTAAAATGGGAGCTAATGGATGATG
+HWI-EAS443:3:27:119:245#0/1
aaaaa`baaaXa`aa`Yaa`_`_`a`_`a`_`aa____^____
@HWI-EAS443:3:27:1227:520#0/1
CTCTCTCTGCATCTTTGGTCATCGTATTTAATGTCAAGTGC
+HWI-EAS443:3:27:1227:520#0/1
abbbabbbbabbbababba`bab`baabbaaaba`aaa^] ^
@HWI-EAS443:3:27:1265:1532#0/1
GAACAATTGAAGAGCCATCTGGGCCGTTGCAGGTCCAAGG
+HWI-EAS443:3:27:1265:1532#0/1
ab^Y_`aaba_Z_X__a`_`a]¥U¥`¥]__[_`W]VYO¥V
@HWI-EAS443:3:27:1292:209#0/1
AAAAATTCCAGCGCAAAATGCCATAAGCACCATTCCT
+HWI-EAS443:3:27:1292:209#0/1
aaab`ab`_aa_a¥a`_`a``[^aa]`]aYM¥Y`a]WOS^
@HWI-EAS443:3:27:1298:22#0/1
GCTCCAATCATCCGACGATTTTGCTCTCATAGTGAATGCA

+HWI-EAS443:3:27:1298:22#0/1
a__a]a`^Z`YZZQZ[_Z_`^`VF[X^]^^UZU^VZYYP
@HWI-EAS443:3:27:1324:364#0/1
GACGGATCAAGAAAGAAGAGTTCTCTGAGATCATGAAGAT
+HWI-EAS443:3:27:1324:364#0/1
a`a^`_]____[_^_]`Z_V_¥__^`]¥R¥_`ZZ^] ^
@HWI-EAS443:3:27:1327:485#0/1
GATTGATGCCAGGGTCGACTTCGAGTCTGGACGGATCAAG
+HWI-EAS443:3:27:1327:485#0/1
aabbaaab`ab`aaP]aaXa_]a¥a]aaaa`_aa__`_X_
@HWI-EAS443:3:27:1328:659#0/1
GCCAGGGTCGACTTCGAGTCTGGACGGATCAAGAAAGAAG
+HWI-EAS443:3:27:1328:659#0/1
abaaaaYaba_aa`aaa^aaaa]^a^`__¥__`__^Z`
@HWI-EAS443:3:27:1352:1526#0/1
AGCCTCTAGAACACAGTCTGTTTGTGCATACCCACTTGGT
+HWI-EAS443:3:27:1352:1526#0/1
aaaa`bbab____aa`a``aa^__a[X[^Z_] ^UZ_____]
@HWI-EAS443:3:27:1368:890#0/1
CAGCATTGTTTACAGAATCAATCTCTTTATGACTGACAAA
+HWI-EAS443:3:27:1368:890#0/1
abbbbbbbbaabbbba_bab_babbbabaa`ab` `a`a
@HWI-EAS443:3:27:1370:2040#0/1
CCCAGCTCAACCCGATTGATGGACCACTACCTGAGGATAA
+HWI-EAS443:3:27:1370:2040#0/1
__bVb[¥¥baZZ`b[Z¥aHWabaT^JX^[a[]`_``_Qb_
@HWI-EAS443:3:27:1475:1051#0/1
ATTTGTGGCTAATTTTAGCATGGAGCTACCCAGCTTTGGA
+HWI-EAS443:3:27:1475:1051#0/1
SYa` `a¥_aa¥[T_^a__Y^¥a]VYK¥]]¥¥V]Y^`_W[X
@HWI-EAS443:3:27:1480:1246#0/1
AGAATCCCACCCAGGAATATTTGAGAATTCATGCCTTGAA
+HWI-EAS443:3:27:1480:1246#0/1
^L[Xa`aa`_[_]RRR]]UU[^_]_Z^`ZX[] ^^_]W]Z^
@HWI-EAS443:3:27:1485:1452#0/1
ACCGTCTCCTATATGAACTGCTAGGGAAAAATTTCTCGA
+HWI-EAS443:3:27:1485:1452#0/1
¥WOXTJ^¥¥U_]Zb^¥aaR]^aW]b]^b`]a]`aa¥a_[[
@HWI-EAS443:3:27:1520:653#0/1
GCGAAAAGCTTGAACAGTCTGGGCTCCCAGTAGGGGGCAA
+HWI-EAS443:3:27:1520:653#0/1
a_a_aaaa]_a`^¥`^Z_¥¥¥W^VV[¥^U¥^__W_VV_
@HWI-EAS443:3:27:1552:984#0/1
GTGTTCTGTTTACTGTGTCCATGGTGTATCCTGTTCTGT
+HWI-EAS443:3:27:1552:984#0/1
[aRI_^V`bb`abV¥ZYPLSNVaabIa[aU]ITU` ¥aaa
@HWI-EAS443:3:27:1567:1030#0/1
CTGTGGTAATGCCAGCCCATGGTCCAGCCAAAAGCATGGA
+HWI-EAS443:3:27:1567:1030#0/1
a¥_Za_]_¥]`aaa_QVZZT¥`Y]_aa_] ^[T`X¥Y`^U

@HWI-EAS443:3:27:1573:319#0/1
CAAAGAGGAAATAGAGATAACAACCCACTTTCAAAGAAAA
+HWI-EAS443:3:27:1573:319#0/1
RY`babbab¥bb_abbabbabaaM[_`¥aa`^`]^`bbbb
@HWI-EAS443:3:27:1597:323#0/1
GATAACAACCCACTTTCAAAGAAAAAGGAGAGTAAGAGAC
+HWI-EAS443:3:27:1597:323#0/1
aa_][`b[¥X^ZF]ba_aPX`a_W_]aa_a_aY]^`a`_X
@HWI-EAS443:3:27:1602:1587#0/1
AAAGCTTGAACAGTCTGGGCTCCCAGTAGGGGGCAATGAA
+HWI-EAS443:3:27:1602:1587#0/1
a^P[¥Z_UR]F]aVZa_a_[[`[RV]U]XX`_^VY^[`_Y
@HWI-EAS443:3:27:1602:259#0/1
GTCTGCTTAAAATGGGAGCTAATGGATGATGATTATCGGG
+HWI-EAS443:3:27:1602:259#0/1
aVfY^Z__a_____V^W¥_R`OXR`^]Y^Z]^XP^Z]SW^^
@HWI-EAS443:3:27:1662:240#0/1
GTCTGGAGTAAATGAATCAGCTGACATGAGTATTGGAGTA
+HWI-EAS443:3:27:1662:240#0/1
aa_bbb_a`a_ab_`a^]a¥a^^Z_`__aY[_`Y]Y^Y[
@HWI-EAS443:3:27:167:645#0/1
CTCCAATCATCCGACGATTTTGCTCTCATAGTGAATGCAC
+HWI-EAS443:3:27:167:645#0/1
ababb_`[_`Z```Z^`aaa`Z^Z`^```X_`]^Za`¥Z_`
@HWI-EAS443:3:27:1692:1333#0/1
CTGTTTACTGTGTCCATGGTGTATCCTGTTCTGTTCCAT
+HWI-EAS443:3:27:1692:1333#0/1
_bbbbbbbabbb`aabbb^abaa_XZbbab^]a``a_VZa
@HWI-EAS443:3:27:1694:1573#0/1
GTCCTCCATCTGATACTAATAGCCCTACCTTTGATTGGGT
+HWI-EAS443:3:27:1694:1573#0/1
a^Z`_aaa```a____]_^__[YMMZ¥[V^UUW]]]UTUWW
@HWI-EAS443:3:27:1720:420#0/1
TGGTGGGATGGGCTCCAATCATCCGACGATTTTGCTCTCA
+HWI-EAS443:3:27:1720:420#0/1
ab`Hb`a[aab^RSP[Yaa__a`^bUZZ^b^_a^L]]aH]
@HWI-EAS443:3:27:1725:381#0/1
TAAAAATTCCAGCGCAAATGCCATAAGCACCCACATTCCC
+HWI-EAS443:3:27:1725:381#0/1
aa````aa^]¥¥F_V]__[_Z_RYa^]_X`RZS_¥`_UPR
@HWI-EAS443:3:27:175:795#0/1
GTGCTTATGGCATTGCGCTGGAATTTTTAGGAAAAGTA
+HWI-EAS443:3:27:175:795#0/1
a¥¥Y^]b]¥`XR_a`aab_]a_Z``a_aaaaa`¥aa_[W]
@HWI-EAS443:3:27:1775:1165#0/1
CTGGAGTAAATGAATCAGCTGACATGAGTATTGGAGTAAC
+HWI-EAS443:3:27:1775:1165#0/1
aaS^_[aVV_baXN_Y[_Q]aWKM_S^]T0¥`_^]WX[^W
@HWI-EAS443:3:27:188:462#0/1
CAGCCATGGAACAGGAACAGGATACACCATGGACACAGTA

@HWI-EAS443:3:27:445:726#0/1
CTAACTTGCAGGTCCTGTAGAATCTGTCCACTCCTGCTTG
+HWI-EAS443:3:27:445:726#0/1
a^W_W`_^XN_[[XY[Z_X`_¥TTZ`XQZY[VS]][
@HWI-EAS443:3:27:479:198#0/1
GGGCTCCAATCATCCGACGATTTTGCTCTCATAGTGAATG
+HWI-EAS443:3:27:479:198#0/1
`K^^`a`b_Uaa`UX[Y_UT]^`_Y__`[Y¥X`T_X¥Z^
@HWI-EAS443:3:27:500:501#0/1
GGTGTCTTATGGCATTGCGCTGGAATTTTAGGAAAAGT
+HWI-EAS443:3:27:500:501#0/1
Xa__bb`[¥^¥bb`abab__`_`_]abb`abaab^^]a]
@HWI-EAS443:3:27:510:361#0/1
AACCAAGTGGGTATGCACAAACAGACTGTGTTCTAGAGGC
+HWI-EAS443:3:27:510:361#0/1
aaa`aaaZb`bRa`a^a`aa_¥^^Z`aU`]^S_¥[^^^]B
@HWI-EAS443:3:27:512:972#0/1
CATCATCCCAGGACTCAGTGATGCTGTGCCATCTATTAGA
+HWI-EAS443:3:27:512:972#0/1
abaa`bbaa`bbababbb¥ab`a_aa¥aba`aaaa`aaa
@HWI-EAS443:3:27:526:754#0/1
GGAGGACCAAACCTTATACAATATACGGAATCTTCACATTC
+HWI-EAS443:3:27:526:754#0/1
aaa_aaaa^]``_aa_aa^]a_a`a`a^`a`^`Z`_]_
@HWI-EAS443:3:27:533:1888#0/1
CCAGTAGGGGCAATGAAAAGAAGGCCAAACTGGCAAATG
+HWI-EAS443:3:27:533:1888#0/1
abaa]aaaab^bbbbbabaaaba`aba`aaaa_baaaaa
@HWI-EAS443:3:27:555:131#0/1
GAGATAACAACCCACTTTCAAAGAAAAAGGAGAGTAAGAG
+HWI-EAS443:3:27:555:131#0/1
XT¥^bXTHYbab_aWaVa__NUaQaaa_aaS`Ya0`U]^a
@HWI-EAS443:3:27:556:723#0/1
AAAAATTCCAGCGCAAATGCCATAAGCACCATTCCT
+HWI-EAS443:3:27:556:723#0/1
aaaa^]``a`^^`^`^Y`_]___^a_a`]``^`^TZ]
@HWI-EAS443:3:27:56:1676#0/1
GTCTGGAGTAAATGAATCAGCTGACATGAGTATTGGAGTA
+HWI-EAS443:3:27:56:1676#0/1
aaaba^[Z_abba_a_ab^a`aa`^^`aX`a`^XY_
@HWI-EAS443:3:27:578:987#0/1
GTTGATTCATTGAAGTACTTCAGGTCAATGCTTGCTAGCA
+HWI-EAS443:3:27:578:987#0/1
`b`abbbbaaaY`^baa`aaa`^baaa`aaaa`aaa_a
@HWI-EAS443:3:27:610:926#0/1
CAGATACACATATAGGTGCCATAGGGGAGACACACAAATT
+HWI-EAS443:3:27:610:926#0/1
a^SZ`^bab`_Z¥^]Z[U^aUM_V[Z^_]`]]aa`]U[Z
@HWI-EAS443:3:27:632:304#0/1
GAGAGGCTATCTAATAAGAGCACTGACATTAATACGATG

+HWI-EAS443:3:27:632:304#0/1
ab_aX_aaa¥NT`aRT_[XSRYLN]VSMX[WVa[`PYW^_
@HWI-EAS443:3:27:698:363#0/1
CTTTGATGAACAATTGAAGAGCCATCTGGGCCGTTGCAGG
+HWI-EAS443:3:27:698:363#0/1
aabSV_b`_`babaa_aa__aaa]^[[`aa[_Z_a^]_
@HWI-EAS443:3:27:794:871#0/1
AATCCGACTCTACTTTTCCTAAAAATCCAGCGCAAATG
+HWI-EAS443:3:27:794:871#0/1
aabbababbaaaabaaa__abbab`a`^aa`aaa`_a_^
@HWI-EAS443:3:27:812:206#0/1
CTTTTCCTAAAAATCCAGCGCAAATGCCATAAGCACCA
+HWI-EAS443:3:27:812:206#0/1
`]b^`ZW`abaa`b_a`^`aW`Y[`¥a¥U_a[`GaQF^
@HWI-EAS443:3:27:81:120#0/1
GGGCTCCAATCATCCGACGATTTTGCTCTCATAGTGAATG
+HWI-EAS443:3:27:81:120#0/1
`bbbbabbbaabbabbabSaaaaaaababab[TYbaab
@HWI-EAS443:3:27:824:702#0/1
GATGGCTCTTCAATTGTTTCATCAAAGACTACAGATACACA
+HWI-EAS443:3:27:824:702#0/1
aaaa`abbbb`aab]¥aaa`_aaaa^aaaa`a`a[aRb
@HWI-EAS443:3:27:834:1512#0/1
CTCCAATCATCCGACGATTTTGCTCTCATAGTGAATGCAC
+HWI-EAS443:3:27:834:1512#0/1
_S¥a^^^¥¥a^^`[T¥`__]¥¥[^_`aUO^¥_`_]ZX^[
@HWI-EAS443:3:27:864:458#0/1
CCCAGGTGTTGCGATAGCCCTTCTTTTTAACTTGCCTCTC
+HWI-EAS443:3:27:864:458#0/1
aX¥]_aPaXX]_`a^[a`SLY^V]]aaa^`Z`_`RQYM[_
@HWI-EAS443:3:27:864:850#0/1
GATGGGCTCCAATCATCCGACGATTTTGCTCTCATAGTGA
+HWI-EAS443:3:27:864:850#0/1
_UU____a¥SW`_a^¥W_ZI_``[aa`_`[`XTa]¥^NUa
@HWI-EAS443:3:27:91:620#0/1
CATGTTGATTCCCCTAACTTGCAGGTCCTGTAGAATCTG
+HWI-EAS443:3:27:91:620#0/1
abaa_aaba_aaa`aa_a`_a```aaXaa^a_a`a```__
@HWI-EAS443:3:27:974:1548#0/1
GGGCAATGAAAAGAAGGCCAAACTGGCAAATGTTGTGAGA
+HWI-EAS443:3:27:974:1548#0/1
aXbb][]aa`aVa^`Ta_`aaWaaa`ba__a_a_^_^`
@HWI-EAS443:3:27:982:872#0/1
GGCTAATTTTAGCATGGAGCTACCCAGCTTTGGAGTGTCT
+HWI-EAS443:3:27:982:872#0/1
a¥¥M`WNPVYaPQ]T¥YISVT¥_YPY[URUSU^P¥X]XXX
@HWI-EAS443:3:27:991:1141#0/1
GATTGATGCCAGGTCGACTTCGAGTCTGGACGGATCAAG
+HWI-EAS443:3:27:991:1141#0/1
aZab`__aaa`]^_R¥__RVa]¥]`¥¥aa`[[[TXSZ^``_`

+HWI-EAS443:3:28:1276:1925#0/1
`a]]bbaaa¥`aaa]aa`aVX_^a^]]`a`¥`a¥VWa_a_
@HWI-EAS443:3:28:1333:1561#0/1
GTTGATTCCCCTAACTTGCAGGTCCTGTAGAATCTGTCC
+HWI-EAS443:3:28:1333:1561#0/1
a`Y¥`aaaa]PYa`a__a_a_a_W[``_]`^aVVV
@HWI-EAS443:3:28:1352:1029#0/1
AACATCCTGAGCATGGCACCCATAATGTTCTCAAACAAAA
+HWI-EAS443:3:28:1352:1029#0/1
aba^aZ`¥b_T]aaY^]]_[``]a_aY]R_ZRUYM[__[
@HWI-EAS443:3:28:1353:1042#0/1
AAAGGGATTCCAGGGATTACAAAGTCTTCCCCGATAATCA
+HWI-EAS443:3:28:1353:1042#0/1
aa^¥YZ]GX_W`N_aWVYRO¥BBBBBBBBBBBBBBBBBBB
@HWI-EAS443:3:28:1364:588#0/1
ACCGGCAGCAACTGCATTGGCCAACACCATAGAAGTCTTT
+HWI-EAS443:3:28:1364:588#0/1
aaaaa_]_YZ]FTOL[Z_¥YKZ_`NXMP_Z[¥GX^IITY^
@HWI-EAS443:3:28:1454:1544#0/1
GGCTAATTTTAGCATGGAGCTACCCAGCTTTGGAGTGTCT
+HWI-EAS443:3:28:1454:1544#0/1
ab_TaZ]a_a^[^`_^`^a_a^``]¥^¥Y`_`]G^0`^0^
@HWI-EAS443:3:28:1465:1292#0/1
CTCCTATATGAACTGCTAGGGAAAAATTTCTCGAATAGAT
+HWI-EAS443:3:28:1465:1292#0/1
abbbbababab_babbaaababab`aaaa_a`aaaaaaa_
@HWI-EAS443:3:28:1541:863#0/1
GCTAATTTTAGCATGGAGCTACCCAGCTTTGGAGTGTCTG
+HWI-EAS443:3:28:1541:863#0/1
U`aZ_Y]a]a¥ab¥^^b`_`bY`_ZZV`[^aSPaa_aaaY
@HWI-EAS443:3:28:1573:971#0/1
AAAAATTCAGCGCAAATGCCATAAGCACCATTCCT
+HWI-EAS443:3:28:1573:971#0/1
a`Z¥W]]¥`Zb]]F^```¥P_WZ^a`[S^[X¥__¥¥QGPU
@HWI-EAS443:3:28:1587:969#0/1
GGCCCGGATTGATGCCAGGGTCGACTTCGAGTCTGGACGG
+HWI-EAS443:3:28:1587:969#0/1
abaabbbbaabb_]_babaZaa`a`]a¥a`^aaaa¥ba
@HWI-EAS443:3:28:163:468#0/1
CCCCAGTGATTGTGAAAGAAATCTCTGTGTCTTGTGAATT
+HWI-EAS443:3:28:163:468#0/1
abb`_]PUQ_SZMa`SX`VI¥_a_____]ZLZW^XPXORSV
@HWI-EAS443:3:28:1675:1679#0/1
CACCAATACTCAGAAAAGGGAAAGTGGACGACAAACACAG
+HWI-EAS443:3:28:1675:1679#0/1
QXabbb__abbb`a[^````_baaPa_[UbaaaU_`^^^Z
@HWI-EAS443:3:28:170:417#0/1
TCAGCTGATTACTTACTCCAGACACTCCAAAGCTGGGTA
+HWI-EAS443:3:28:170:417#0/1
aba`aababbbabbb`aabaaa`bbbab`]aaaa`a`a¥a

@HWI-EAS443:3:28:194:1570#0/1
CTCTCTTATTAGTCTTTGTTTTTCTTCCCTATTGTTCT
+HWI-EAS443:3:28:194:1570#0/1
¥_b¥bbaZ^bbb^^baabaaaabbbbbaabba_`baaabb
@HWI-EAS443:3:28:200:1067#0/1
GCTCCAATCATCCGACGATTTTGCTCTCATAGTGAATGCA
+HWI-EAS443:3:28:200:1067#0/1
ab`bb]aaaaaaaaaaaaa_aaaaaaaa`^^`[^`a`[¥
@HWI-EAS443:3:28:214:502#0/1
GAGTAAATGAATCAGCTGACATGAGTATTGGAGTAACAGT
+HWI-EAS443:3:28:214:502#0/1
a_aZaaaaa__`^^`_`a___`__Y_^_^Y¥_[]__^_[
@HWI-EAS443:3:28:216:1780#0/1
CCCAGTGGTTCAGAAACATCCTGAGCATGGCACCCATAA
+HWI-EAS443:3:28:216:1780#0/1
abba`]aa_^aQYZ`^^^aa¥_] [ZU]¥V`a`][W]
@HWI-EAS443:3:28:222:1215#0/1
ATTTTGTCTCATAGTGAATGCACCAAACCATGAGGGAAT
+HWI-EAS443:3:28:222:1215#0/1
aaaaaaaaaaaaaLa_]_]__aa`a^___]_[]_V___]
@HWI-EAS443:3:28:252:1647#0/1
AGAGGCTATCTAATAAGAGCACTGACATTAATACGATGA
+HWI-EAS443:3:28:252:1647#0/1
a_a¥Za_XTTZV]Z_[MWKPPPYXTQX¥TU_]XRVXPTW
@HWI-EAS443:3:28:259:1439#0/1
CGAGTGGTTCAGAAACATCCTGAGCATGGCACCCATAATG
+HWI-EAS443:3:28:259:1439#0/1
a`aYZ¥]^`_UV_a_XXZS^JS¥_`a___[a`_X]_a___
@HWI-EAS443:3:28:301:1044#0/1
GCCAGGTTCGACTTCGAGTCTGGACGGATCAAGAAAGAAG
+HWI-EAS443:3:28:301:1044#0/1
abba]UU[bVP]`a`¥`RQ^`]`a__aZJUYO`¥0`_V___
@HWI-EAS443:3:28:321:1221#0/1
GAGGAAATAGAGATAACAACCCACTTTCAAAGAAAAGGA
+HWI-EAS443:3:28:321:1221#0/1
aa_a`bb`]_aababaabaaaaa`a^a`a_a`¥`_]`^^`
@HWI-EAS443:3:28:347:81#0/1
GCCAGGTTCGACTTCGAGTCTGGACGGATCAAGAAAGAAG
+HWI-EAS443:3:28:347:81#0/1
aa_aaaa¥aaa__a[___bQa`aa[¥aa¥VQ_`_^_`¥]`]
@HWI-EAS443:3:28:354:65#0/1
CTTCTTTTTCATTGCCCTACTGGGAGCCCAGACTGTTCA
+HWI-EAS443:3:28:354:65#0/1
ab``aa`aa`ZH]a`^Q`aV`W[¥aNZ[UNN`QSN]PGP^
@HWI-EAS443:3:28:365:1721#0/1
CAATCATCCGACGATTTTGCTCTCATAGTGAATGCACCAA
+HWI-EAS443:3:28:365:1721#0/1
a¥U`Y`a_N__ZRaa¥`W[W_`_aY_]P^`__`[UaR___
@HWI-EAS443:3:28:379:988#0/1
CATGAGTATTGGAGTAACAGTGATAAAGAACAACATGATA

+HWI-EAS443:3:28:379:988#0/1
aa^`ba]`a[a^]]]¥X`aG^¥^`YY`^a^]^^U^__V_
@HWI-EAS443:3:28:37:1566#0/1
AAAATTTCTCGAATAGATTGCAGCACTTCTGGTACATCTG
+HWI-EAS443:3:28:37:1566#0/1
]T``abbba`X`aaaa`__`^¥^^`a_aa`YUa_a__WT
@HWI-EAS443:3:28:454:763#0/1
CTGTCCACTCCTGCTTGTATTCCCTCATGGTTTGGTGCAT
+HWI-EAS443:3:28:454:763#0/1
`_ZUba`aa_abaaabaabbbbaabaaa][_a_a^aW]`
@HWI-EAS443:3:28:494:1068#0/1
GATCATTTGAGTTAAAGAAGCTGTGGGATCAAACCCAATC
+HWI-EAS443:3:28:494:1068#0/1
`X[```])a`a^VV¥Z`_K]__`ZXHUTW]`__]`^]WQQ
@HWI-EAS443:3:28:516:1055#0/1
GCTAATTTTAGCATGGAGCTACCCAGCTTTGGAGTGTCTG
+HWI-EAS443:3:28:516:1055#0/1
a`a__aZ_aa_`¥]¥_^_]`_Y__^^¥ZWU_U_XX^^
@HWI-EAS443:3:28:519:834#0/1
GGCCCCGATTGATGCCAGGGTCGACTTCGAGTCTGGACGG
+HWI-EAS443:3:28:519:834#0/1
`^bba^_bbW_Y`]^[ZTPZ^_R]]¥aaa¥_J[Va_R]a¥
@HWI-EAS443:3:28:554:2000#0/1
GATTCTTCAAGGAAAGCCATAGCCTCTAGAACACAGTCTG
+HWI-EAS443:3:28:554:2000#0/1
aba`aabb`^`]b`_abab_a`b_b^aaaaba`_]a^a
@HWI-EAS443:3:28:555:1092#0/1
CACCAGTATATTGTCTTGGTGTATTTCTTTTGTCCAAGAT
+HWI-EAS443:3:28:555:1092#0/1
a]aa`_`¥SWa_a_`__aYa¥J]Y_^Y[_a_[a`ZTK_R
@HWI-EAS443:3:28:572:683#0/1
GTAAACAGAACACACCAATACTCAGAAAAGGGAAAGTGGA
+HWI-EAS443:3:28:572:683#0/1
aa_]`¥^^[][aaaaaZ^aa`aa`a_a^^a`__`aaZa_`
@HWI-EAS443:3:28:615:290#0/1
CATCCGACGATTTTGTCTCATAGTGAATGCACCAAACCA
+HWI-EAS443:3:28:615:290#0/1
abaa`bbbaaaaaabaaaaaaa`aaaa`a``aaa¥X`
@HWI-EAS443:3:28:633:550#0/1
GGCTCCAATCATCCGACGATTTTGTCTCATAGTGAATGC
+HWI-EAS443:3:28:633:550#0/1
abba`a`aaabbaaaaaaaabaa_X`ab`TYa`aa_
@HWI-EAS443:3:28:663:41#0/1
GTGGGATCAAACCAATCAAAGGTAGGGCTATTAGTATCA
+HWI-EAS443:3:28:663:41#0/1
a^aaaa`_aa`__a_`_`_^`aX`^^]`^^^`Y^]V]
@HWI-EAS443:3:28:702:923#0/1
CACCAATACTCAGAAAAGGGAAAGTGGACGACAAACACAG
+HWI-EAS443:3:28:702:923#0/1
V__a[Wbbbb__ba`[¥_WY^bb_N]_ba`^b_VZ¥_]`_`

@HWI-EAS443:3:28:712:1953#0/1
CAGATCTTCATGATCTCAGAGAACTCTTCTTTCTTGATCC
+HWI-EAS443:3:28:712:1953#0/1
abaa`bbaabaUb^aaa````aa`aa```a]`aaa`b^a^
@HWI-EAS443:3:28:772:818#0/1
CCAGGGTCGACTTCGAGTCTGGACGGATCAAGAAAGAAGA
+HWI-EAS443:3:28:772:818#0/1
`abbbaQaabbbaa_baa`aab`a_`a^aaaaaaaaa[]aZa
@HWI-EAS443:3:28:822:1913#0/1
GACGGATCAAGAAAGAAGAGTTCTCTGAGATCATGAAGAT
+HWI-EAS443:3:28:822:1913#0/1
]Q^`baS_`abbb`^aa`]PL]`_a```¥___a[aaZT^Z
@HWI-EAS443:3:28:841:1640#0/1
GGGCTCCAATCATCCGACGATTTTGCTCTCATAGTGAATG
+HWI-EAS443:3:28:841:1640#0/1
aa_a_bbaaaaa_a[aaaa`]¥¥``a_a_```¥aZVY^`Y]
@HWI-EAS443:3:28:856:1669#0/1
CCAGGAATATTTGAGAATTCATGCCTTGAAACAATGGAAG
+HWI-EAS443:3:28:856:1669#0/1
abbbaababaaa`a`aaaaba`aa`a`aab`ba`a_aa^
@HWI-EAS443:3:28:891:1791#0/1
GTGCCATGCTCAGGATGTTTCTGAACCACTCGGGTTGATT
+HWI-EAS443:3:28:891:1791#0/1
RXW]a^^`b^b^]¥X¥]a]b_a[_]T¥`^`_^]P[_`ZW
@HWI-EAS443:3:28:897:1870#0/1
ACAGGAACAGGATACACCATGGACACAGTAAACAGAACAC
+HWI-EAS443:3:28:897:1870#0/1
aab^¥a`baaaaY``a`_]T_]_Y_^aW_]aU[]_YZ^V
@HWI-EAS443:3:28:912:469#0/1
TCCGTATATTGTATAAGTTTGGTCCTCCATCTGATACTAA
+HWI-EAS443:3:28:912:469#0/1
a_ab_aaaabb]a`a_a_aaa``_aa_]a`_aa_aa]a_a
@HWI-EAS443:3:28:928:1439#0/1
TTCCTTGAAGAATCCCACCCAGGAATATTTGAGAATTCAT
+HWI-EAS443:3:28:928:1439#0/1
aaabaab^baaab_`aaaaa_a]aaaa_a`aaa__a_
@HWI-EAS443:3:28:93:1219#0/1
ATTATGGGTGCCATGCTCAGGATGTTTCTGAACCACTCGG
+HWI-EAS443:3:28:93:1219#0/1
^`ab`aaa]ab`_a`a``[]```a[a`a``a]_a]a_`_¥
@HWI-EAS443:3:28:992:1444#0/1
ACAGTCTGGGCTCCCAGTAGGGGCAATGAAAAGAAGGCC
+HWI-EAS443:3:28:992:1444#0/1
]abb_a]a^Z_¥U_a_aX¥ab_a`V^aaa`¥`aRR¥`YYH
@HWI-EAS443:3:29:1004:1267#0/1
CAGTGATTGTGAAAGAAATCTCTGTGTCTTGTGAATTAGT
+HWI-EAS443:3:29:1004:1267#0/1
a^__aaaab`]_]a`¥`_aaa_a¥¥[U_``Z]W[V¥VX^W
@HWI-EAS443:3:29:1008:730#0/1
CTCCATCTGATACTAATAGCCCTACCTTTGATTGGGTTTG

+HWI-EAS443:3:29:1008:730#0/1
abbb^[a__Vba`Z[Xab[`¥`[`¥aaa_aab_b`[^a`
@HWI-EAS443:3:29:1033:1788#0/1
TGCTAAGTACGGTCTTGGGAGTCTCGATACTGAATCTTGG
+HWI-EAS443:3:29:1033:1788#0/1
a_aab`_]baaa¥W__^^Z]_Wa_``]]a^]_a`_]`[Q[
@HWI-EAS443:3:29:1051:713#0/1
TTTTAAGCAGACTTCAGGAATGTGAAGATTCCGTATATTG
+HWI-EAS443:3:29:1051:713#0/1
V^JYU^_VT__`a_`¥bbaabbZ`_GTJSIFa¥HV_R`_B
@HWI-EAS443:3:29:1058:31#0/1
AATTGAAGAGCCATCTGGGCCGTTGCAGGTCCAAGGTCAT
+HWI-EAS443:3:29:1058:31#0/1
^^_a_R_bbbaa[^a^`aZTa]aa¥SYVWXOO[_¥NY__
@HWI-EAS443:3:29:1081:920#0/1
GAGGAATCGTTCTATTCTCAACACAAGCCAAAGGGGAATT
+HWI-EAS443:3:29:1081:920#0/1
]_[XQ`b`TW^_`WZ_T¥[SY]_^Z]¥Za]X^[^b`^a`
@HWI-EAS443:3:29:1092:1212#0/1
GGTGTGTTCTGTTTACTGTGTCCATGGTGTATCCTGTTCC
+HWI-EAS443:3:29:1092:1212#0/1
`b_b`aRabb[aabaXZfV`X^aa`a`XUN^]Z_[^]a^B
@HWI-EAS443:3:29:1108:953#0/1
AGGGAATACAAGCAGGAGTGGACAGATTCTACAGGACCTG
+HWI-EAS443:3:29:1108:953#0/1
^a¥a_Z^^^W_bbb]aaZa`aa^Q]V]^[_]]`^^`¥`
@HWI-EAS443:3:29:1157:598#0/1
GGGCTCCAATCATCCGACGATTTTGCTCTCATAGTGAATG
+HWI-EAS443:3:29:1157:598#0/1
]WTY¥0]XO^QQ_OHRHT]T^U^a`U^VTY][V^ZBBBBB
@HWI-EAS443:3:29:1157:897#0/1
AAACAAGGGTAGATAAACTAACTCAAGGTCGCCAGACTTA
+HWI-EAS443:3:29:1157:897#0/1
aaa`a_]aQ_a_____`]]`^`___X`^V]^`^^]^`^Z`^_
@HWI-EAS443:3:29:1171:1020#0/1
GTGATAAAGAACAACATGATAAACAATGACCTTGGACCTG
+HWI-EAS443:3:29:1171:1020#0/1
]aa`aaaabab`a`_aaaa`aaaZa^`Ya__aa`V]^`V``
@HWI-EAS443:3:29:1195:1613#0/1
CTTTTCCTAAAAATTCCAGCGCAAATGCCATAAGCACCA
+HWI-EAS443:3:29:1195:1613#0/1
^^aab¥aa`¥[Q_Y]Y¥^^`a^`]^`a]IX¥^a^[b_a_
@HWI-EAS443:3:29:1218:1568#0/1
CTTTGATGAACAATTGAAGAGCCATCTGGGCCGTTGCAGG
+HWI-EAS443:3:29:1218:1568#0/1
abbbbbbbbbbbbababbb`aaabbaa_aa_aaaaaa`aa_
@HWI-EAS443:3:29:1260:873#0/1
TTTTCTGAGTATTGGTGTGTTCTGTTTACTGTGTCCATGG
+HWI-EAS443:3:29:1260:873#0/1
a_`aaa^[bU]aa^]UaZYVX¥bVZ`_a]aa`a_____¥X

@HWI-EAS443:3:29:1365:1279#0/1
ACAGTCTGGGCTCCCAGTAGGGGGCAATGAAAAGAAGGCC
+HWI-EAS443:3:29:1365:1279#0/1
aaab` `ababa]aaaab^_aaaba^aaa`_aaaaa^a_a^
@HWI-EAS443:3:29:1379:1171#0/1
ACTAACTTGCAGGTCCTGTAGAATCTGTCCACTCCTGCTT
+HWI-EAS443:3:29:1379:1171#0/1
^O^Z_RQVX]`R__ZVW_XXaaaaaZRDMTQRDV`¥¥BBB
@HWI-EAS443:3:29:139:1154#0/1
GCTCCAATCATCCGACGATTTTGCTCTCATAGTGAATGCA
+HWI-EAS443:3:29:139:1154#0/1
`bbbb]`bbaabbaaaa[aaaaaaaaaaa_`a]_Yaaaaa
@HWI-EAS443:3:29:1429:523#0/1
CTTGGGAGTCTCGATACTGAATCTTGGACAAAAGAAATAC
+HWI-EAS443:3:29:1429:523#0/1
abb_bbaa`aaababaU` `ba`Pa`_`¥R]aabbb^a`aU
@HWI-EAS443:3:29:143:23#0/1
GCCCCGATTGATGCCAGGGTCGACTTCGAGTCTGGACGGA
+HWI-EAS443:3:29:143:23#0/1
abaaba]`aaa_aa]aaa`S^a^_¥^^`U^U[^^^^Z`YO
@HWI-EAS443:3:29:1441:1103#0/1
GCCATGGTGTCTAGGGCCCGATTGATGCCAGGGTCGACT
+HWI-EAS443:3:29:1441:1103#0/1
_V]]^a`OMY]WUMOXJ JMVQMQP¥¥]BBBBBBBBBBBBB
@HWI-EAS443:3:29:1463:760#0/1
CTTCAATGAATCAACAAAGAAGAAAATTGAGAAAATAAGG
+HWI-EAS443:3:29:1463:760#0/1
`^baaab_b`b` `a`ba_bZHaa]¥_aabaa` ``aaa__`
@HWI-EAS443:3:29:1465:1255#0/1
CTGGGATGCAGATTAGAGGTTTCGTATACTTTGTTGAAAC
+HWI-EAS443:3:29:1465:1255#0/1
ab^bbaabb`babbbab`^]`bbaa^^`ababa`^a_aa
@HWI-EAS443:3:29:1508:842#0/1
GGCTAATTTTAGCATGGAGCTACCCAGCTTTGGAGTGTCT
+HWI-EAS443:3:29:1508:842#0/1
``aba_bbbaa]aaaa_`^`a___]`^]_aa]Y^_X`XX^
@HWI-EAS443:3:29:1520:1704#0/1
AAATCGTCGGATGATTGGAGCCCATCCCACCAGTATATTG
+HWI-EAS443:3:29:1520:1704#0/1
]_`YHYU]_Z_SUYFR[a_`Y¥]WVQZ¥P[Z_[LZV` [¥B
@HWI-EAS443:3:29:1529:864#0/1
AACAGATCTTCATGATCTCAGAGAACTTTCTTTCTTGAT
+HWI-EAS443:3:29:1529:864#0/1
aab^aabaabaaaaa^]Y_^_aa]Y]__aU^b__aa_a`
@HWI-EAS443:3:29:153:409#0/1
TGGAATCAATGAACAAAGAGGAAATAGAGATAACAACCCA
+HWI-EAS443:3:29:153:409#0/1
a`]][^a`aa¥a`_]_aab]aV]a_` `¥X_V_aa`aaa` `a
@HWI-EAS443:3:29:1542:1503#0/1
CATGGCACCCATAATGTTCTCAAACAAAATGGCAAGACTA

+HWI-EAS443:3:29:1542:1503#0/1
ab`]abaaabaaaa_aaaaaa`aa`aa`aa`a`Z`_
@HWI-EAS443:3:29:1632:635#0/1
CTCAGAAAAGGGAAAAGTGGACGACAAACACAGAGACTGGT
+HWI-EAS443:3:29:1632:635#0/1
a`abaYX_aaaaaaa]a_abYbbaaaaabaaaa`aa¥
@HWI-EAS443:3:29:1649:327#0/1
TGCCGTTGCAACTACACATTCCTGGATTCCCAAGAGGAAT
+HWI-EAS443:3:29:1649:327#0/1
aab_a¥_abaa_`0aX`^^^_]_Y_RW]`^^^UTWB
@HWI-EAS443:3:29:1678:1274#0/1
CCGGATTGATGCCAGGGTCGACTTCGAGTCTGGACGGATC
+HWI-EAS443:3:29:1678:1274#0/1
aaaaRbbaZ`WZPZZa_XaX_Ua^PZPY[JY¥XOYR_SXH
@HWI-EAS443:3:29:1702:1115#0/1
GCTGTGGTAATGCCAGCCCATGGTCCAGCCAAAAGCATGG
+HWI-EAS443:3:29:1702:1115#0/1
a_aa]`¥a_a`[UN]ZT^[¥W¥QT_WXPUWZX^WV[QVB
@HWI-EAS443:3:29:1781:386#0/1
TGAACAAAGAGGAAATAGAGATAACAACCCACTTTCAAAG
+HWI-EAS443:3:29:1781:386#0/1
abab^abaa`abaaab^b`aa`aa^aa`G¥a_`_b_`_a
@HWI-EAS443:3:29:202:1451#0/1
CAAGACAATATACTGGTGGGATGGGCTCCAATCATCCGAC
+HWI-EAS443:3:29:202:1451#0/1
a_^`[a_b`^Saa]¥R[`[]^a^[_`Y`¥]aUaa]a^POV
@HWI-EAS443:3:29:220:1162#0/1
GTGATTGTGAAAGAAATCTCTGTGTCTTGTGAATTAGTCA
+HWI-EAS443:3:29:220:1162#0/1
`^^`baa_`aaa__^`baa`W[¥^aa]¥[_____XUWZ`
@HWI-EAS443:3:29:228:1247#0/1
AGAATCTGTCCACTCCTGCTTGTATTCCCTCATGGTTTGG
+HWI-EAS443:3:29:228:1247#0/1
a`_`_a]_PW_XYT_`Z^^^^`UWUU_Z[GTHZZRURVBB
@HWI-EAS443:3:29:247:319#0/1
GCCCTACCTTTGATTGGTTTGGATCCCACAGTTCTTTAA
+HWI-EAS443:3:29:247:319#0/1
a`aa[`a^[^aa[]Z[___X^ZY`Z[___QU]^USX^^X]B
@HWI-EAS443:3:29:293:1699#0/1
GGGCTCCAATCATCCGACGATTTTGTCTCATAGTGAATG
+HWI-EAS443:3:29:293:1699#0/1
`¥`b`baa^]baaaaaba_aa__aaa_a`aa_a_U^__^^
@HWI-EAS443:3:29:337:1468#0/1
CCCCTTTGGCTTGTGTTGAGAATAGAACGATTCCTCTTGG
+HWI-EAS443:3:29:337:1468#0/1
ab`^a`]RT_]TULSRZVS]SVX^V]_VXBBBBBBBBBBBB
@HWI-EAS443:3:29:350:724#0/1
AAAAATTCCAGCGAAAATGCCATAAGCACCATTCCT
+HWI-EAS443:3:29:350:724#0/1
aaa]SY_¥aVaa`_]¥`__a_[[`]_]a____^^]V¥XX

+HWI-EAS443:3:29:703:538#0/1
` ` aabbb`bb_b^¥abaabbaa`Z`aaaaZaabaaaaaba
@HWI-EAS443:3:29:704:862#0/1
ATCTTCATTCTTTACTCTCGAACATGTACCCTTCCCTA
+HWI-EAS443:3:29:704:862#0/1
a`a`ab_`aabbb`_a`aa^aaaa`a_`aaaa` `a^[_^
@HWI-EAS443:3:29:706:1530#0/1
CTTGTGTTGAGAATAGAACGATTCTCTTGGGAATCCAGG
+HWI-EAS443:3:29:706:1530#0/1
YZ]WUa]Z`^`_`X[^`^`^_U`a[a]]a` [¥^^[_Y]X
@HWI-EAS443:3:29:724:2041#0/1
GGTCCTCCATCTGATACTAATAGCCCTACCTTTGATTGGG
+HWI-EAS443:3:29:724:2041#0/1
`` `a`Ub`_bb_b]PaYYa` ` `aaaa^_[aaa`_a_a
@HWI-EAS443:3:29:728:953#0/1
CTTTCCTTGAAGAATCCCACCCAGGAATATTTGAGAATTC
+HWI-EAS443:3:29:728:953#0/1
ababa^aabbbbaaaaaaaaaaa^^_W] `aaaa_aa^_^
@HWI-EAS443:3:29:744:1823#0/1
CATTCTTTTACTCTCGAACATGTACCCTTCCCTAGTCTT
+HWI-EAS443:3:29:744:1823#0/1
a`aK`b]a¥ab]]_[a` `a]a`_a_Z[_`_aaa`Y[[SUS^
@HWI-EAS443:3:29:786:2010#0/1
GCTAATTTTAGCATGGAGCTACCCAGCTTTGGAGTGTCTG
+HWI-EAS443:3:29:786:2010#0/1
aa]` [_`aaab` `Y] `Y[a¥]aa`^`_a`_____X¥T`X^`_`
@HWI-EAS443:3:29:797:589#0/1
TGGACGGATCAAGAAAGAAGAGTTCTCTGAGATCATGAAG
+HWI-EAS443:3:29:797:589#0/1
aaZaaaaa_aa[a_]_^a__a_]`_` `]`_a_]_^_]__^]
@HWI-EAS443:3:29:803:613#0/1
GATTGATGCCAGGGTCGACTTCGAGTCTGGACGGATCAAG
+HWI-EAS443:3:29:803:613#0/1
a_aa[_` [aa` ^^_]S_¥¥[___Z_Z¥WY^^^ [U^ [QSZ^¥B
@HWI-EAS443:3:29:889:724#0/1
GTGTGTTCTGTTTACTGTGTCCATGGTGTATCCTGTTCCCT
+HWI-EAS443:3:29:889:724#0/1
aa]] ` ` ^` a¥a` `^_WL¥ZX¥aaaaQaZ^_a^]_^ [V[^
@HWI-EAS443:3:29:896:205#0/1
GATCTAAAGACTTCTATGGTGTGGCCAATGCAGTTGCTG
+HWI-EAS443:3:29:896:205#0/1
_L^R_Y_^^T[ZTU]ZU^OV^KDMX]V[HRUUVHXVBBBB
@HWI-EAS443:3:29:926:341#0/1
GTGTGTTCTGTTTACTGTGTCCATGGTGTATCCTGTTCCCT
+HWI-EAS443:3:29:926:341#0/1
a]a0`Y^_aa`__^`_^V_V]^^[[^X`YY^XU^^Y^VR]
@HWI-EAS443:3:29:948:1587#0/1
GATGAACAATTGAAGAGCCATCTGGGCCGTTGCAGGTCCA
+HWI-EAS443:3:29:948:1587#0/1
ababbbbbbaaabbaaabbaaaaa_aaa` ` ` ` `a` aT` a`

@HWI-EAS443:3:29:955:317#0/1
CCCAGTAGGGGCAATGAAAAGAAGCCAACTGGCAAAT
+HWI-EAS443:3:29:955:317#0/1
S]Yababb`_bb`ab`bbbbbbbaaab]bba`ab`abaaa
@HWI-EAS443:3:29:990:1006#0/1
GCCCTTCTTTTTAACTTGCCTCTCTCTGCATCTTTGGTCA
+HWI-EAS443:3:29:990:1006#0/1
aX`^S^V¥a¥`R`M[ZM[¥RLUGU]MZGQLZ¥ZPXBBBB
@HWI-EAS443:3:2:1023:953#0/1
CAAGCAGGAGTGGACAGATTCTACAGGACCTGCAAGTTAG
+HWI-EAS443:3:2:1023:953#0/1
a[a`ZU_]Y_]`_[S[_`aa]``_[X][PX¥W^Y_]`]a
@HWI-EAS443:3:2:1044:839#0/1
TAATGCCAGCCCATGGTCCAGCCAAAAGCATGGAATATGA
+HWI-EAS443:3:2:1044:839#0/1
_]_a[___aaaa_]a`[[`_WF]X^aVa`]W``^`_`_`_`a^
@HWI-EAS443:3:2:1046:47#0/1
GATTGATGCCAGGGTCGACTTCGAGTCTGGACGGATCAAG
+HWI-EAS443:3:2:1046:47#0/1
a`aaaa[``_`____N¥a^T__¥^¥`YH^`_YQ```¥YUZY`
@HWI-EAS443:3:2:1091:476#0/1
GTTTGGTGCATTCACTATGAGAGCAAATCGTCGGATGAT
+HWI-EAS443:3:2:1091:476#0/1
a^`¥`^VYYT^^^`^WWU__U_]`^UWV^^YUXXXX]XY]XB
@HWI-EAS443:3:2:1092:2020#0/1
GCCTTATTTTCTCAATTTTCTTCTTTGTTGATTCATTGAA
+HWI-EAS443:3:2:1092:2020#0/1
``_`ababbbbaaaaababa_ba_aaaa_aaa`aaa`_aa_
@HWI-EAS443:3:2:1120:1398#0/1
CTGGACGGATCAAGAAAGAAGAGTTCTCTGAGATCATGAA
+HWI-EAS443:3:2:1120:1398#0/1
^PZaU`b[[aa¥aaaW^`_`¥aYaX^^^a^]`]^R_Y`_B
@HWI-EAS443:3:2:1133:583#0/1
GTTTCGAGAGTAAAAGAATGAAGATTCGAACACAAATACCA
+HWI-EAS443:3:2:1133:583#0/1
a^a`bab_b_a`aaa`abaa___aa``^`_]_Va_``_`____
@HWI-EAS443:3:2:1137:475#0/1
GTGTGTTCTGTTTACTGTGTCCATGGTGTATCCTGTTCC
+HWI-EAS443:3:2:1137:475#0/1
a¥aTaYT[`a¥^_¥¥¥^U[[Y¥W¥_`W_TYZSSZQV¥UW¥
@HWI-EAS443:3:2:1160:1067#0/1
GGCTCCAATCATCCGACGATTTTGCTCTCATAGTGAATGC
+HWI-EAS443:3:2:1160:1067#0/1
aa___]RU_aU__X[`Y¥a]]V]¥`Y^^_V^YZVVVV_YZR
@HWI-EAS443:3:2:1178:426#0/1
GGTGTGTTCTGTTTACTGTGTCCATGGTGTATCCTGTTCC
+HWI-EAS443:3:2:1178:426#0/1
a_Q[RYLRZ[``[¥UTYP]L]ZZVW¥¥]G¥RTRUW[VVXBB
@HWI-EAS443:3:2:1206:742#0/1
TAGAGGTTTCGTATACTTTGTTGAACTTTAGCTAGGAGC

+HWI-EAS443:3:2:1206:742#0/1
U`a[a][aba`V¥]`V^U_a^YZ[YTR`]`^[GZ[`]¥H
@HWI-EAS443:3:2:1284:2028#0/1
ATCCGACTCTACTTTTCCTAAAAATTCCAGCGCAAATGC
+HWI-EAS443:3:2:1284:2028#0/1
a``Ya_]_[_][P`aR^YZaUaa`__[UQ[_Q_[_^X_^SG
@HWI-EAS443:3:2:1371:1513#0/1
GTGGGTTGTTATCTCTATTTCTCTTTGTTTCATTGATTCC
+HWI-EAS443:3:2:1371:1513#0/1
aX`_[Va_]`_`Y¥[__a``][_]_[a``Z[`]^]_^_¥^_VY
@HWI-EAS443:3:2:1377:1055#0/1
AAAAATTCCAGCGCAAATGCCATAAGCACCATTCCT
+HWI-EAS443:3:2:1377:1055#0/1
aaa¥`YaJ`_[[_Ya¥^a__`X_Z`^__¥]]¥^]ZZZYUU
@HWI-EAS443:3:2:1386:573#0/1
CAATTGTTTCATCAAAGACTACAGATACACATATAGGTGCC
+HWI-EAS443:3:2:1386:573#0/1
aaaabb[a_aa^aa`a`aaaa¥`aaY___aaaa_aSaVP
@HWI-EAS443:3:2:1445:1073#0/1
ATCTATTCGAGAAATTTTCCCTAGCAGTTCATATAGGAG
+HWI-EAS443:3:2:1445:1073#0/1
U`bbba]bb__b__aababb_Tba`aTaa^S[bababSaY
@HWI-EAS443:3:2:1470:1033#0/1
GTGTGTTCTGTTTACTGTGTCCATGGTGTATCCTGTTCCCT
+HWI-EAS443:3:2:1470:1033#0/1
a^`V]]_U_`^a`[¥^¥VW¥[SV^[_UaSY^STXSUZRRX
@HWI-EAS443:3:2:148:1293#0/1
AAAACAAAGACTGAATAAGAGAGGCTATCTAATAAGAGCA
+HWI-EAS443:3:2:148:1293#0/1
aabaaa`_a`_aa_aa_aaa_____^a`ST[[]Y¥_WBBBB
@HWI-EAS443:3:2:1512:1103#0/1
CACCTATATGTGTATCTGTAGTCTTTGATGAACAATTGAA
+HWI-EAS443:3:2:1512:1103#0/1
abaa_ab``]W``aaU]a[[b_Gaa^[][_V_]][[_^T¥`
@HWI-EAS443:3:2:1525:816#0/1
AAAAATTCCAGCGCAAATGCCATAAGCACCATTCCT
+HWI-EAS443:3:2:1525:816#0/1
aaaa[aa`_aa^aX_]`_a_XW^``¥^X^ZU^^]^ZZZXZ
@HWI-EAS443:3:2:1535:920#0/1
AGAAGATGGTCACGCAAAGAACAATAGGGAAGAAAAACA
+HWI-EAS443:3:2:1535:920#0/1
_abaa]¥a`H]¥`_SZO]a[a^Q[a^^``VY^Y¥^]J`]]
@HWI-EAS443:3:2:154:863#0/1
GGGATGGGCTCCAATCATCCGACGATTTTGCTCTCATAGT
+HWI-EAS443:3:2:154:863#0/1
`aa_aaab^`aab_a`aa`_aa^a_`aa``Ya_a_^`_YM
@HWI-EAS443:3:2:1579:1580#0/1
ATGGTGTCTAGGGCCCGATTGATGCCAGGGTCGACTTCG
+HWI-EAS443:3:2:1579:1580#0/1
aba]`¥]]aaaa¥¥`Xaa`a`]`a`^¥a__PLN_S¥^¥UZ

@HWI-EAS443:3:2:1657:549#0/1
AATCTGTCCACTCCTGCTTGTATTCCCTCATGGTTTGGTG
+HWI-EAS443:3:2:1657:549#0/1
a`a^aaa[`a_a_]`^_a_a]a`_^X^`^U_aU]]____ZU
@HWI-EAS443:3:2:1676:1575#0/1
GATTGATGCCAGGGTCGACTTCGAGTCTGGACGGATCAAG
+HWI-EAS443:3:2:1676:1575#0/1
a^PS^a]X[DUa^VLLTYSX]Z]ZSYT_]QN^NUZ¥NYWB
@HWI-EAS443:3:2:1679:1734#0/1
GGGCAATGAAAAGAAGGCCAAACTGGCAAATGTTGTGAGA
+HWI-EAS443:3:2:1679:1734#0/1
ab^^a_a`aa^`a`_W```__`^`a_]__]¥`X[`Z_[`[
@HWI-EAS443:3:2:1707:1026#0/1
GGCCTCTTCTAATAGATGGCACAGCATCACTGAGTCCTGG
+HWI-EAS443:3:2:1707:1026#0/1
abbZb`bbaaba`bbabbbaaaaa`aa____aa``¥U¥aa`
@HWI-EAS443:3:2:174:86#0/1
GTTCTGTTTACTGTGTCCATGGTGTATCCTGTTCTGTTTC
+HWI-EAS443:3:2:174:86#0/1
`R]UXYM¥_`[U`^[Q^YT^a_Q_Q[T^W^¥U_QVT¥BBB
@HWI-EAS443:3:2:208:82#0/1
CAATCATCCGACGATTTTGTCTCATAGTGAATGCACCAA
+HWI-EAS443:3:2:208:82#0/1
abbb`abaaaaaabbbab_aab`_aab`_aa_`a]S``
@HWI-EAS443:3:2:231:1536#0/1
CAAGAATCCCCTTTGGCTTGTGTTGAGAATAGAACGATT
+HWI-EAS443:3:2:231:1536#0/1
abb__`aa][¥]aa_aaaa]Ya]a_]_¥]^`^`^GSREU
@HWI-EAS443:3:2:234:2038#0/1
CAATTGAAGAGCCATCTGGGCCGTTGCAGGTCCAAGGTCA
+HWI-EAS443:3:2:234:2038#0/1
ab[]`Y^aa]V]Xaa_HQ_PUaa[PUETXVRYG]Z_OFOB
@HWI-EAS443:3:2:257:680#0/1
ACAGTCTGGGCTCCCAGTAGGGGGCAATGAAAAGAAGGCC
+HWI-EAS443:3:2:257:680#0/1
abbb_]a`a]a^`_¥_a¥aaa_a`_a^a`T_¥a_]``UR
@HWI-EAS443:3:2:259:613#0/1
ACAGATCTTCATGATCTCAGAGAACTCTTCTTTCTTGATC
+HWI-EAS443:3:2:259:613#0/1
a`aa`_aa_a`__W`_a]^`^`X_]__R____^`^`^AW
@HWI-EAS443:3:2:267:1416#0/1
ATCTGTCCACTCCTGCTTGTATTCCCTCATGGTTTGGTGC
+HWI-EAS443:3:2:267:1416#0/1
a_a_aS`]aUZLH_aX]^a]]¥JV[Z]]Z_ZU^BBBBBBB
@HWI-EAS443:3:2:284:793#0/1
AACAGAAATCAACCGGCAGCAACTGCATTGGCCAACACCA
+HWI-EAS443:3:2:284:793#0/1
a`_aa_a`aaaa^Z``¥aaY_aY]`ZYY^R]X]^ZXZWXU
@HWI-EAS443:3:2:285:715#0/1
ACCTGAAGTACTTCAATGAATCAACAAAGAAGAAAATTGA

+HWI-EAS443:3:2:285:715#0/1
_a_U]`abX_]aa_`aaaa]aa` `` `` _aX¥a_¥Y_` `a¥
@HWI-EAS443:3:2:32:723#0/1
AAAAATTCCAGCGCAAATGCCATAAGCACCACATTCCCT
+HWI-EAS443:3:2:32:723#0/1
aa` `Xa` __U_ZYZ_]Z¥¥[`^]^ []Z_^0^^^]ONX¥
@HWI-EAS443:3:2:426:1981#0/1
CACAGAGATTTCTTTCACAATCACTGGGGACAACACTAAG
+HWI-EAS443:3:2:426:1981#0/1
aVG_aaba`aaa`a`a`bb`]aaabb_aab`a`ab__a^a
@HWI-EAS443:3:2:475:442#0/1
ACATTAATACGATGACCAAAGATGCAGAGAGAGGCAAGT
+HWI-EAS443:3:2:475:442#0/1
a_aaa_Y___`a_`_^ [[_ ` _a] [_ ` _ ` [a]^]_ ^YRNT [
@HWI-EAS443:3:2:478:707#0/1
AATGAACCAAGTGGGTATGCACAAACAGACTGTGTTCTAG
+HWI-EAS443:3:2:478:707#0/1
`IY¥]^ [HMVZVZTVQPX]LVQXRMO¥_]MX^VFS]VBBB
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TGTCCCAGTGATTGTGAAAGAAATCTCTGTGTCTTGTGA
+HWI-EAS443:3:2:490:580#0/1
ab`a` _`aa^a^aa`S` __aa_[a_^___`W_¥^`^`_^`^`
@HWI-EAS443:3:2:591:841#0/1
AATGGATGATGATTATCGGGGAAGACTTTGTAATCCCCTG
+HWI-EAS443:3:2:591:841#0/1
`a¥ba___^` `a]_aa¥_^P[^` `S_` ___X_TXZ^Z]R^
@HWI-EAS443:3:2:660:207#0/1
CCCATTGATGGACACTACCTGAGGATAATGAACCAAGT
+HWI-EAS443:3:2:660:207#0/1
aaabaaabaabaaaa`aa` `aa`aa`aba`aaa_Va¥`W
@HWI-EAS443:3:2:691:561#0/1
AAGTGGACGACAAACACAGAGACTGGTGCACCCCAGCTCA
+HWI-EAS443:3:2:691:561#0/1
abb^bababaaabaa` `ba_aa_`a`Ua¥`Z[___`_¥_¥_
@HWI-EAS443:3:2:807:60#0/1
AAAAATTCCAGCGCAAATGCCATAAGCACCACATTCCCT
+HWI-EAS443:3:2:807:60#0/1
a¥[`¥` `YY]YOVT¥__`] [JM]_ZVYTZQUVKXSMPUQB
@HWI-EAS443:3:2:886:1710#0/1
GGGGCAATGAAAAGAAGGCCAAACTGGCAAATGTTGTGAG
+HWI-EAS443:3:2:886:1710#0/1
a`a]__aaa^aa^___[^H_]_]Z`aX¥` ` _YY_W_]_
@HWI-EAS443:3:2:919:362#0/1
GATACACATATAGGTGCCATAGGGGAGACACACAAATTCA
+HWI-EAS443:3:2:919:362#0/1
aaa_a[_a`a__a`0` ___^__] ^U_]Z_^X`^]]BBB
@HWI-EAS443:3:2:937:233#0/1
AAAAATTCCAGCGCAAATGCCATAAGCACCACATTCCCT
+HWI-EAS443:3:2:937:233#0/1
aaaa^`a[YXa_]R¥]___`^]_` `^_]_XN]Z]^XXXRX

@HWI-EAS443:3:2:954:587#0/1
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+HWI-EAS443:3:2:954:587#0/1
S¥R`^¥]SW]^a[^L¥UNSTW]a]N[ZPXYMYUW[[[^B
@HWI-EAS443:3:2:956:492#0/1
CACCAATACTCAGAAAAGGGAAAGTGGACGACAAACACAG
+HWI-EAS443:3:2:956:492#0/1
aaaaabaa_aa`b`[^`baa`a_aWbaa^aaZaaa¥_V`a
@HWI-EAS443:3:2:969:713#0/1
CCCCGAGTGGTTCAGAAACATCCTGAGCATGGCACCCATAA
+HWI-EAS443:3:2:969:713#0/1
a_aaab_bbbbaaaa_aaa_`aa`¥aYa`^¥]`_Z[``a`
@HWI-EAS443:3:2:989:450#0/1
CAAGAATTCCCCTTTGGCTTGTGTTGAGAATAGAACGATT
+HWI-EAS443:3:2:989:450#0/1
aVSab_bbaaWU¥ZU`a¥_`b_b_ab^aZ¥U`[__R`]¥Z
@HWI-EAS443:3:2:991:42#0/1
GAACAATTGAAGAGCCATCTGGGCCGTTGCAGGTCCAAGG
+HWI-EAS443:3:2:991:42#0/1
_ababbbbabaab_aabbabba``b`ab_abb_a]Z_ba
@HWI-EAS443:3:30:1019:815#0/1
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+HWI-EAS443:3:30:1019:815#0/1
aba_`aba`a`b_b`ZT][a_b[XZU`]T`a__ZTY`Y_
@HWI-EAS443:3:30:1027:392#0/1
AACAGGAACAGGATACACCATGGACACAGTAAACAGAACA
+HWI-EAS443:3:30:1027:392#0/1
^R_¥S_¥La_VZ]a`a`a`^]_XY¥OXZ_____TVYL_
@HWI-EAS443:3:30:1030:720#0/1
TCCTCCATCTGATACTAATAGCCCTACCTTTGATTGGGTT
+HWI-EAS443:3:30:1030:720#0/1
U¥WQ_UX^_UX¥V^_UZa[`¥]_a]QJ_aaaX_bWU¥R`
@HWI-EAS443:3:30:1038:1180#0/1
GGCTAATTTTAGCATGGAGCTACCCAGCTTTGGAGTGTCT
+HWI-EAS443:3:30:1038:1180#0/1
aZ¥`_`[¥VR¥]_TYZ_¥XTV`[X[`¥ZOX`^WQTVJNX
@HWI-EAS443:3:30:1058:296#0/1
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+HWI-EAS443:3:30:1058:296#0/1
^`a]VbaaZWbS][VYa[b`]OS`^b]XV[aXRHNQa^U
@HWI-EAS443:3:30:1064:447#0/1
TCCATGCTTTTGGCTGGACCATGGGCTGGCATTACCACAG
+HWI-EAS443:3:30:1064:447#0/1
aaab¥^Wab`aaa`b]a][^[_]`aa_] [`a_`S_
@HWI-EAS443:3:30:1079:55#0/1
CAAACCATGAGGGAATACAAGCAGGAGTGGACAGATTCTA
+HWI-EAS443:3:30:1079:55#0/1
abaa`_[babb`ababbbaba[`baY`Za^`[_a_]a^]`
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GAAAAGCTTGAACAGTCTGGGCTCCCAGTAGGGGCAATG

+HWI-EAS443:3:30:1093:110#0/1
aba]abbaab`a^b`]aa`^_]V]^MZaaa_`S¥X¥_
@HWI-EAS443:3:30:1094:352#0/1
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+HWI-EAS443:3:30:1094:352#0/1
abab`abb`a`aaaa[aabaa`_bbaaab`_aaaa`Wa^]
@HWI-EAS443:3:30:1106:1443#0/1
TAATGCCAGCCCATGGTCCAGCCAAAAGCATGGAATATGA
+HWI-EAS443:3:30:1106:1443#0/1
_WZ^_aa`U[_a¥Q]_Naa^X_YOPVOQX^S[^aYYZVTU
@HWI-EAS443:3:30:1148:295#0/1
CAATGACCTTGGACCTGCAACGGCCAGATGGCTCTTCAA
+HWI-EAS443:3:30:1148:295#0/1
`]¥W]`_Z^abb`OZUa[ZK¥aa[]_]`¥XRRVXTWSU[R
@HWI-EAS443:3:30:1166:1092#0/1
ATGGAATATGATGCCGTTGCAACTACACATTCCTGGATTC
+HWI-EAS443:3:30:1166:1092#0/1
aa^¥Zaaa]]]aaa^_ZYVYX^^[¥X¥^`_^`¥XTWWVW
@HWI-EAS443:3:30:1172:1002#0/1
TAGGGGGCAATGAAAAGAAGGCCAAACTGGCAAATGTTGT
+HWI-EAS443:3:30:1172:1002#0/1
`aa_babbbbbb`_abaabb`a`bbbbaaaabbaa`]a^]
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ATTGAAGAGCCATCTGGGCCGTTGCAGGTCCAAGGTCATT
+HWI-EAS443:3:30:1209:1436#0/1
aaba_a_aX^^X¥aS`YXWMXNT^NV¥¥FUN]V[¥KDRG]
@HWI-EAS443:3:30:1213:145#0/1
ATCAAAGACTACAGATACACATATAGGTGCCATAGGGGAG
+HWI-EAS443:3:30:1213:145#0/1
abaaaaa`abaa`baaaaa_aaaa`_`]a_____``_[]_
@HWI-EAS443:3:30:1301:1295#0/1
GTCCTCCATCTGATACTAATAGCCCTACCTTTGATTGGGT
+HWI-EAS443:3:30:1301:1295#0/1
a^a_]aabaaaa¥_a`aa```a`^XZS]_`a_]^_Z_]U
@HWI-EAS443:3:30:1304:969#0/1
TGCACCCAGCTCAACCCGATTGATGGACCACTACCTGAG
+HWI-EAS443:3:30:1304:969#0/1
abbbb`^a_aaaaba_a`baaaaaa]a`Zaaaa]^aa^`
@HWI-EAS443:3:30:1339:48#0/1
TTTGTAAATCCCCTGAATCCCTTTGTCAGTCATAAAGAGAT
+HWI-EAS443:3:30:1339:48#0/1
^ab`Y`a`YW]V^a`UaZ^^`_`_`^U^_]Y[^_]X^Y]
@HWI-EAS443:3:30:1365:1165#0/1
ACACATTCCTGGATTCCCAAGAGGAATCGTTCTATTCTCA
+HWI-EAS443:3:30:1365:1165#0/1
a`Xb^bV^bV`_b¥^X^^R`a_aa_`^`Y_G``¥`WW^X^
@HWI-EAS443:3:30:1376:1369#0/1
ATGGGCTCCAATCATCCGACGATTTTGCTCTCATAGTGAA
+HWI-EAS443:3:30:1376:1369#0/1
W¥¥_`^Z`¥J`¥_ZH^`a__a`_Z`Y]^MWRZ_¥Z¥[HXM]

@HWI-EAS443:3:30:1440:496#0/1
TGCAATCTATTCGAGAAATTTTTCCCTAGCAGTTCATATA
+HWI-EAS443:3:30:1440:496#0/1
[]LYa`a_`^`_X`aU_¥`]`aWYQaa_RZZWZWTZ_Z
@HWI-EAS443:3:30:1481:1464#0/1
AAAAATCCAGCGCAAATGCCATAAGCACCATTCCT
+HWI-EAS443:3:30:1481:1464#0/1
aba``]a`]_`aaaa`^a`a`_`_a`^^a^U^]a_]WYY`
@HWI-EAS443:3:30:1489:771#0/1
GTTCTGTTTACTGTGTCCATGGTGTATCCTGTTCCCTGTTC
+HWI-EAS443:3:30:1489:771#0/1
¥WSVX_^Ya_H__L]PPX`S]ZL_[`ZJVWRZN_a¥`_R
@HWI-EAS443:3:30:14:1441#0/1
TTCAGGGGATTACAAAGTCTTCCCCGATAATCATCATCCA
+HWI-EAS443:3:30:14:1441#0/1
aaaX)`ZZ]aaab__`a^aaa`aaaa``[_aYW][__^^
@HWI-EAS443:3:30:156:1406#0/1
CTCTTCAATTGTTTCATCAAAGACTACAGATACACATATAG
+HWI-EAS443:3:30:156:1406#0/1
a`aaaa]`aaa__aa`a_¥___`a`___^V]`_a^a]`]
@HWI-EAS443:3:30:1586:1173#0/1
GTCTGTTTGTGCATACCCACTTGGTTCATTATCCTCAGGT
+HWI-EAS443:3:30:1586:1173#0/1
aTQXNUa_]VY`_Y[VYSPQa`^_`^¥[]__`]V[]UV_^X
@HWI-EAS443:3:30:1590:1373#0/1
CAGAGACTGGTGCACCCAGCTCAACCCGATTGATGGACC
+HWI-EAS443:3:30:1590:1373#0/1
a¥aa`X[¥PXa`a__`a^`_ZU_a^¥[``Z`_^N]]¥P^
@HWI-EAS443:3:30:1592:950#0/1
GTCCTCCATCTGATACTAATAGCCCTACCTTTGATTGGGT
+HWI-EAS443:3:30:1592:950#0/1
ab`baabbbabaabaababbaa[a_a__ababbaaa[a^`
@HWI-EAS443:3:30:1598:1567#0/1
ATTTTGTGTTGAGAACATTATGGGTGCCATGCTCAGGATGT
+HWI-EAS443:3:30:1598:1567#0/1
abbbabababa^aa_]aaa`a_XP_[_a]¥_^]``PGXN^
@HWI-EAS443:3:30:1598:803#0/1
CACCATAGAAGTCTTTAGATCGAATGGCCTAACAGCTAAT
+HWI-EAS443:3:30:1598:803#0/1
abaabbbbabbaabbbbab`baaaba`_aaaZ`aT`^^a
@HWI-EAS443:3:30:159:921#0/1
ATTCGATCTAAAGACTTCTATGGTGTGGCCAATGCAGTT
+HWI-EAS443:3:30:159:921#0/1
a]`ba]aa¥a`a^U`a`__`_`]]Y_Y¥`_^[JQ¥^UBB
@HWI-EAS443:3:30:1639:119#0/1
CACCAAACCATGAGGAATACAAGCAGGAGTGGACAGATT
+HWI-EAS443:3:30:1639:119#0/1
aba`bba`_bbabbbbabbbabaa`bab``_baa]`__^a
@HWI-EAS443:3:30:1651:870#0/1
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+HWI-EAS443:3:30:1651:870#0/1
¥_Y__aaaSW_bbb__`Y^P]aa_0[`]a_¥ab^a_[_Y¥
@HWI-EAS443:3:30:1658:695#0/1
GTGGGATTCTTCAAGGAAAGCCATAGCCTCTAGAACACAG
+HWI-EAS443:3:30:1658:695#0/1
`^aaaYW^Ya_aa`____[[[]][Q_]UVV_X^`_^]X^0VY
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TTATCACTGTTACTCCAATACTCATGTCAGCTGATTCATT
+HWI-EAS443:3:30:1762:62#0/1
U^TbVOZa`WYTV[GXZQWX¥_SRYUSQX]TW_MO]SUW[
@HWI-EAS443:3:30:189:1229#0/1
GCTTAAAATGGGAGCTAATGGATGATGATTATCGGGGAAG
+HWI-EAS443:3:30:189:1229#0/1
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GAGCTAATGGATGATGATTATCGGGGAAGACTTTGTAATC
+HWI-EAS443:3:30:230:638#0/1
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@HWI-EAS443:3:30:282:919#0/1
GGTTCATTATCCTCAGGTAGTGGTCCATCAATCGGGTTGA
+HWI-EAS443:3:30:282:919#0/1
a^`ababab`ababaaa¥aa^aX^aa`¥aaa`a]^V¥]XY
@HWI-EAS443:3:30:286:334#0/1
GTCTAGGGCCCCGATTGATGCCAGGGTCGACTTCGAGTCT
+HWI-EAS443:3:30:286:334#0/1
a``ZI_``_`a`¥]V_TZ¥`[X[]¥XK¥¥]SK_]VNSZ]
@HWI-EAS443:3:30:36:953#0/1
GGTGTGTTCTGTTTACTGTGTCCATGGTGTATCCTGTTCC
+HWI-EAS443:3:30:36:953#0/1
abXa^`^aaaa`aa]aaa^`¥aa__a]R¥^aaaa__^^`_`
@HWI-EAS443:3:30:477:948#0/1
CACCAAACCATGAGGAATACAAGCAGGAGTGGACAGATT
+HWI-EAS443:3:30:477:948#0/1
aaaa]``aa_abaaa]]`_J_a__a^`[`aZaa]^_^YUW
@HWI-EAS443:3:30:481:1242#0/1
GAGCCATCTGGGCCGTTGCAGGTCCAAGTTCATTGTTTAT
+HWI-EAS443:3:30:481:1242#0/1
`b`bbabbaaaaab`aaabaaWaaaa`]aaaa`_^a`]
@HWI-EAS443:3:30:492:431#0/1
GAGATTTCTTTCACAATCACTGGGACAACACTAAGTGGA
+HWI-EAS443:3:30:492:431#0/1
aaa]abbbabbbbaa¥abbbbaaaaaaaa`aaa`_aVa`_`
@HWI-EAS443:3:30:50:1787#0/1
CACAGTAAACAGAACACACCAATACTCAGAAAAGGGAAAG
+HWI-EAS443:3:30:50:1787#0/1
abb^_[b^^b^[]`aaaaaaaaaaa`a`_¥¥]`__]_Z`]
@HWI-EAS443:3:30:534:2021#0/1
GGGATGGGCTCCAATCATCCGACGATTTTGCTCTCATAGT
+HWI-EAS443:3:30:534:2021#0/1
aa_`^UI_`Saa^Y]^`aa`X_____¥_G[^a^`a^¥_W

@HWI-EAS443:3:30:538:1334#0/1
GACTAATTCACAAGACACAGAGATTTCTTTCACAATCACT
+HWI-EAS443:3:30:538:1334#0/1
Y^bba^a¥aaab^bb_abbab][^aaaaaa^bb`[[b__
@HWI-EAS443:3:30:549:1175#0/1
GACCAAGAAGATGGTCACGCAAAGAACAATAGGGAAGAAA
+HWI-EAS443:3:30:549:1175#0/1
_¥bba`_aa`aaXa[a¥Yaaa__`^Zaa`a_Uaa____]`
@HWI-EAS443:3:30:573:1479#0/1
ACAATGCTGTGGTAATGCCAGCCCATGGTCCAGCCAAAAG
+HWI-EAS443:3:30:573:1479#0/1
aa[^]W_a`]a`Vb`^^baa_aa_aUZXU_]X[`Z`_]U
@HWI-EAS443:3:30:576:333#0/1
CAGCTGACATGAGTATTGGAGTAACAGTGATAAAGAACAA
+HWI-EAS443:3:30:576:333#0/1
ababaaabbab`a^aaaabaa_aaaa]a`a`aa__`^aa
@HWI-EAS443:3:30:619:304#0/1
GGGCTCCAATCATCCGACGATTTTGCTCTCATAGTGAATG
+HWI-EAS443:3:30:619:304#0/1
aa`aa`^a_0¥^_aaaaa_¥¥]a]]`^a_`aV`^^Z_
@HWI-EAS443:3:30:627:1545#0/1
CTTTTGTCCAAGATTCAGTATCGAGACTCCCAAGACCGTA
+HWI-EAS443:3:30:627:1545#0/1
aa`aaa^bba`aaaaaa^aaa`_`_a_a`aaa]]_]Wa
@HWI-EAS443:3:30:648:1374#0/1
GTTCTGTTTACTGTGTCCATGGTGTATCCTGTTCTGTTTC
+HWI-EAS443:3:30:648:1374#0/1
a^a_`^`^_a_aaV]^aa¥___S_Y__a_`_]_]_AT[RY]
@HWI-EAS443:3:30:658:1246#0/1
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+HWI-EAS443:3:30:658:1246#0/1
`S]UW¥_TNY_aa]]¥)`a_^]_`[`__^`^`^`[Z^¥WZZ
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+HWI-EAS443:3:30:668:1267#0/1
aaa^X]a]T_]U^Z`^]ZYa^TXZUV[VVSWQWZVVSU
@HWI-EAS443:3:30:677:885#0/1
CTCCAATCATCCGACGATTTTGCTCTCATAGTGAATGCAC
+HWI-EAS443:3:30:677:885#0/1
```b^```\_\_aa]IX]Z¥]]^¥[YZYYY^^W[]ZS^ZSF  
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`b`bYbbaaa\_abb`a`aaY^S[]VaTQ¥`¥¥aY]¥LL  
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+HWI-EAS443:3:30:760:1414#0/1  
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+HWI-EAS443:3:30:774:977#0/1  
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+HWI-EAS443:3:30:783:790#0/1  
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+HWI-EAS443:3:30:789:1034#0/1  
a[a`aaaaa^`\_a¥a^`a`aaa\_]N¥\_a``¥[`^Z\_\_\_^  
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GATGACCAAAGATGCAGAGAGAGGCAAGTTAAAAAGAAGG  
+HWI-EAS443:3:30:841:227#0/1  
aaab`\_`aaaa\_aa¥`^a\_\_¥\_\_Z\_[\_]W\_]`^\_`W]¥]V^  
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CTCCATCTGATACTAATAGCCCTACCTTTGATTGGGTTTG  
+HWI-EAS443:3:30:862:1854#0/1  
^]b]bW`R¥Z`bb`aaX]abbbW`WX\_a\_N`]`\_[YM\_RW  
@HWI-EAS443:3:30:894:1895#0/1  
GCAGCAACTGCATTGGCCAACACCATAGAAGTCTTTAGAT  
+HWI-EAS443:3:30:894:1895#0/1  
abba`bbaabbaaa^`abaaa\_aaaaaa`\_Y```````\_`\_  
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GAGGTTTCGTATACTTTGTTGAACTTTAGCTAGGAGCAT  
+HWI-EAS443:3:30:956:569#0/1  
a`Ub^ab^TGQ^PLYM[````]`\_\_¥a`\_`YV[a^aRX]\_`  
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GTTCTATTCTCAACACAAGCCAAAGGGGAATTCTTGAGGA  
+HWI-EAS443:3:30:95:1531#0/1  
¥NU^U¥OY`Y`¥Ya^a[QZa]ZSMSY]VLLSS¥YQOW\_R]  
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CCTCCATCTGATACTAATAGCCCTACCTTTGATTGGGTTT  
+HWI-EAS443:3:30:971:513#0/1  
aaaa^bbabbaUaa`aaaa\_aa`a\_\_\_`M]a\_a]\_Z\_U]\_  
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GAAACATCCTGAGCATGGCACCCATAATGTTCTCAAACAA  
+HWI-EAS443:3:30:974:1586#0/1  
\_abbbabb^¥b`\_baaa^aa\_Q`aba`a`\_aaaa\_`]aa  
@HWI-EAS443:3:30:983:725#0/1  
ACAGATCTTCATGATCTCAGAGAACTCTTCTTTCTTGATC  
+HWI-EAS443:3:30:983:725#0/1  
aabbaaabaaaab`aaaa`\_`aa\_baba`baaaaa```]  
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+HWI-EAS443:3:31:1009:886#0/1  
aaaaababbabb`aaaabaabaaaaaaaa`aa`\_]`^\_W  
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AATGAACCAAGTGGGTATGCACAAACAGACTGTGTTCTAG  
+HWI-EAS443:3:31:1059:1505#0/1  
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aababaaaaaa]TNZW]X0aTSJXZGTROOSR¥OY^WTGT  
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+HWI-EAS443:3:31:1064:182#0/1  
aaabba`aaabbaaaabaaaaaa]a\_^`aaaaaaa^aZ  
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CGATACTGAATCTTGACAAAAGAAATACACCAAGACAAT  
+HWI-EAS443:3:31:1080:742#0/1  
a^aaaabba]aaaab`^[aa`a\_`¥\_a]aa\_`^`]]`aa  
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ATTGATGCCAGGGTCGACTTCGAGTCTGGACGGATCAAGA  
+HWI-EAS443:3:31:1089:297#0/1  
`]¥¥b\_¥[Q\_a^aP\_b]a\_]\_¥`\_\_ZT\_VWaa^R\_]Y  
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GGCCCGGATTGATGCCAGGGTCGACTTCGAGTCTGGACGG  
+HWI-EAS443:3:31:1107:891#0/1  
ababb`bbbbbbbababb^abb`bbba`a\_abaa`ba  
@HWI-EAS443:3:31:1108:307#0/1  
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+HWI-EAS443:3:31:1108:307#0/1  
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+HWI-EAS443:3:31:110:1052#0/1  
aaa\_P^`\_aa\_`a\_`\_\_^`\_`\_`Z¥`\_\_^\_Y]^Z\_\_^^  
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CTGGGCCGTTGCAGGTCCAAGTCATTGTTTATCATGTTG  
+HWI-EAS443:3:31:115:1002#0/1  
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+HWI-EAS443:3:31:1176:522#0/1  
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+HWI-EAS443:3:31:1182:1710#0/1  
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GTTGTCCCAGTGATTGTGAAAGAAATCTCTGTGTCTTGT  
+HWI-EAS443:3:31:1184:1429#0/1  
`G¥\_^`aaa^X¥a¥R[XUXY\_a^YTNT¥[\_ZZY`N]^OH  
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+HWI-EAS443:3:31:1193:178#0/1  
¥Y`\_a`bX¥`XaX^Z\_ZXM\_a^a\_GUb`Z]aYPa¥WZF]F  
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+HWI-EAS443:3:31:125:297#0/1  
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+HWI-EAS443:3:31:1268:33#0/1  
abaZ^\_S¥0ZP¥¥a`a`a`a]aaaa¥VQ^^^`^\_^^VS]  
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+HWI-EAS443:3:31:1280:1327#0/1  
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@HWI-EAS443:3:31:129:1739#0/1  
CATGGGCTGGCATTACCACAGCATTGTTTACAGAATCAAT  
+HWI-EAS443:3:31:129:1739#0/1  
`TYVNG`W`Wa^Z[\_`\_`\_]YR]Q^Z^^`W[YPQT\_ZKS  
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+HWI-EAS443:3:31:129:1792#0/1  
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+HWI-EAS443:3:31:1375:567#0/1  
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+HWI-EAS443:3:31:1431:68#0/1  
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+HWI-EAS443:3:31:1446:1574#0/1  
aabaaaabab]\_b`b[a^VU`aaba^aaaa\_^[aaaZL  
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+HWI-EAS443:3:31:1510:402#0/1  
\_]a`\_a^a]XXTX\_]^[[]SY[]Z`¥[]YYYS]TTXSL  
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AAAGGTAGGGCTATTAGTATCAGATGGAGGACCAAACCTTA  
+HWI-EAS443:3:31:1519:894#0/1  
a`aa^\_ba`aa`aaaa]aa]aa`ab¥^]a^UV`\_`Y\_\_]  
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+HWI-EAS443:3:31:1567:1973#0/1  
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+HWI-EAS443:3:31:1582:1648#0/1  
a`a\_aa`\_XV^^¥U\_\_\_V\_Z[^`\_VZ`\_ZWR^VUUUU^V  
@HWI-EAS443:3:31:1634:697#0/1  
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+HWI-EAS443:3:31:1634:697#0/1  
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+HWI-EAS443:3:31:169:1870#0/1  
a`^b`aaaa\_V`b¥`V`aaaa`b\_aa^Z\_\_]aa]¥]a[aa  
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ATACTGGTGGGATGGGCTCCAATCATCCGACGATTTTGCT  
+HWI-EAS443:3:31:1732:1065#0/1  
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+HWI-EAS443:3:31:209:744#0/1  
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+HWI-EAS443:3:31:223:720#0/1  
a¥`WTURZWPY¥a`WJUTLUZRRTPVYNWS\_]YS]VYYZS  
@HWI-EAS443:3:31:284:1243#0/1  
GGACGGATCAAGAAAGAAGAGTTCTCTGAGATCATGAAGA  
+HWI-EAS443:3:31:284:1243#0/1  
aZUa`^]aa^a^¥^Y^a`¥Y[[[`a`]RZ[[Y^\_ZTZ`\_  
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GGGATGGGCTCCAATCATCCGACGATTTTGCTCTCATAGT  
+HWI-EAS443:3:31:326:514#0/1  
aaTM[¥[`]a`^][\_a\_\_YV^]`Z^\_\_[\_`[[Z]]][RU  
@HWI-EAS443:3:31:34:2036#0/1  
TTAGCTAGGAGCATTTGCGAAAAGCTTGAACAGTCTGGGC  
+HWI-EAS443:3:31:34:2036#0/1  
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GTGGTTCAGAAACATCCTGAGCATGGCACCCATAATGTTC  
+HWI-EAS443:3:31:373:73#0/1  
a\_T`ZY¥YWV\_[QGOXYQWVZUZO\_]WWWXVVTQFUWRHV  
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CTAACTTGCAGGTCTGTAGAATCTGTCCACTCCTGCTTG  
+HWI-EAS443:3:31:373:807#0/1  
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+HWI-EAS443:3:31:417:1426#0/1  
a\_\_\_Vaa^Vb`W[aa^^]ZVUaa\_`a``]WUW^\_V¥¥^\_¥  
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ATTGATGCCAGGGTCGACTTCGAGTCTGGACGGATCAAGA  
+HWI-EAS443:3:31:433:168#0/1  
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@HWI-EAS443:3:31:445:609#0/1  
GAGGGAATACAAGCAGGAGTGGACAGATTCTACAGGACCT  
+HWI-EAS443:3:31:445:609#0/1  
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@HWI-EAS443:3:31:452:1286#0/1  
GTTTGGCCTTCTTTTCATTGCCCCCTACTGGGAGCCCAGA  
+HWI-EAS443:3:31:452:1286#0/1  
^]\_a```baabaaaaaa`aaaaaaa`a]V]^```adW]  
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GGTGGGATGGGCTCCAATCATCCGACGATTTTGCTCTCAT  
+HWI-EAS443:3:31:460:677#0/1  
ab\_aaaaaa[¥aaaaaaaaaaaaa[aaa\_\_a`a`\_```a`\_  
@HWI-EAS443:3:31:468:1259#0/1  
GCTGGCATTACCACAGCATTGTTTACAGAATCAATCTCTT  
+HWI-EAS443:3:31:468:1259#0/1  
aaaaabbbbaaab\_b`abbabb`aa`aabaaa`a`\_````\_  
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AGCTGGGTAGCTCCATGCTAAAATTAGCCACAAATCCATA  
+HWI-EAS443:3:31:469:1763#0/1  
a¥a\_a\_\_Xaaa`aa`^\_a`aa`a`\_`ZaYa\_``\_\_^`\_¥\_  
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AAAAATTCCAGCGAAAATGCCATAAGCACCACATTCCT  
+HWI-EAS443:3:31:472:500#0/1  
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@HWI-EAS443:3:31:473:680#0/1  
ATTGATGCCAGGGTCGACTTCGAGTCTGGACGGATCAAGA  
+HWI-EAS443:3:31:473:680#0/1  
aaabbaaa^\_]abZa]aa[`aaaa[a\_]Y^a^M]\_\_\_[  
@HWI-EAS443:3:31:49:353#0/1  
AGCTGATTCATTTACTCCAGACACTCCAAAGCTGGGTAGC  
+HWI-EAS443:3:31:49:353#0/1  
a`a\_¥\_aaa\_a^a```\_\_``\_\_`]PXIY`W^¥WUSV]  
@HWI-EAS443:3:31:509:1245#0/1  
CTCTCTTATTCAGTCTTTGTTTTTCTTCCCTATTGTTCT  
+HWI-EAS443:3:31:509:1245#0/1  
^W^]XW^RU`\_WRMYSY\_\_XUY`TVX]¥¥a[X[[WVOTWT  
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+HWI-EAS443:3:31:53:61#0/1  
aaa^`baab]VZabaaaa`aa`a^TZ]¥\_¥Z¥^`\_¥\_]^]  
@HWI-EAS443:3:31:576:743#0/1  
AAGGGATTCAGGGATTACAAAGTCTTCCCCGATAATCAT  
+HWI-EAS443:3:31:576:743#0/1  
a``\_V]`[b^RZ^`^]^`aaa]X`a``\_a`\_``\_`^`^\_Y

@HWI-EAS443:3:31:577:1913#0/1  
AGCTGATTCATTTACTCCAGACACTCCAAAGCTGGGTAGC  
+HWI-EAS443:3:31:577:1913#0/1  
^W^U\_`a]SV\_W\_T^\_aS\_YRbaRXaaR¥]`YGZOXX\_UG  
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+HWI-EAS443:3:31:591:268#0/1  
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@HWI-EAS443:3:31:670:285#0/1  
GGGAATCCAGGAATGTGTAGTTGCAACGGCATCATATTCC  
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@HWI-EAS443:3:31:672:1608#0/1  
AAAAATCCAGCGCAAATGCCATAAGCACCACATTCCCT  
+HWI-EAS443:3:31:672:1608#0/1  
abab\_`a`\_`^`\_`^`\_`^`\_`^`\_`X^¥^a`\_`\_[¥a`^`X\_]X¥Z]Z  
@HWI-EAS443:3:31:696:1459#0/1  
GAGGAATCGTTCTATTCTCAACACAAGCCAAAGGGGAATT  
+HWI-EAS443:3:31:696:1459#0/1  
¥` `b[Sabb^Ya`a\_aa`b\_\_abbb^^`\_R`b^b]b`Z`a  
@HWI-EAS443:3:31:700:1066#0/1  
ATGGGCTCCAATCATCCGACGATTTTGCTCTCATAGTGAA  
+HWI-EAS443:3:31:700:1066#0/1  
abaI^bRab¥a`b`b[a^`\_b\_Z`\_ab`aa`b`\_`\_NY[\_]  
@HWI-EAS443:3:31:721:126#0/1  
GTTCTGTTTACTGTGTCCATGGTGTATCCTGTTCTGTTTC  
+HWI-EAS443:3:31:721:126#0/1  
^^aN`bb^`S[ab[Ub`bb`a`PZ\_b^`aV]Y^^`^]Z\_X  
@HWI-EAS443:3:31:761:161#0/1  
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+HWI-EAS443:3:31:761:161#0/1  
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+HWI-EAS443:3:31:788:56#0/1  
ababbb\_baabbaaba\_[]`¥aa`\_bGabaa`aZ\_\_ba\_\_\_\_  
@HWI-EAS443:3:31:810:569#0/1  
CAGTGATTGTGAAAGAAATCTCTGTGTCTTGTGAATTAGT  
+HWI-EAS443:3:31:810:569#0/1  
``a]b`aab[aaaa`U\_aaaaaaaa`a¥`a`¥]ZPZ]]UN  
@HWI-EAS443:3:31:821:639#0/1  
GACTCATTAGCTGTTAGGCCATTCGATCTAAAGACTTCTA  
+HWI-EAS443:3:31:821:639#0/1  
WVaba^`¥¥¥` `¥JV]G\_]a^^`Y¥TVZ¥]SWX[GQSTVH  
@HWI-EAS443:3:31:827:1133#0/1  
CTATGAGAGCAAATCGTCCGATGATTGGAGCCCATCCCA  
+HWI-EAS443:3:31:827:1133#0/1  
ababb`baabbbabaaa\_aaa`aaa`\_\_a^`^\_aa`aP]\_  
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GCTAGGAGCATTTCGCGAAAAGCTTGAACAGTCTGGGCTCC  
+HWI-EAS443:3:31:841:341#0/1  
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+HWI-EAS443:3:31:854:842#0/1  
Y[VS]JR¥\_]`aYaUa`aXTN^`VUT[\_a^aYRQZaQVF  
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TGCAGGTCCTGTAGAATCTGTCCACTCCTGCTTGTATTCC  
+HWI-EAS443:3:31:910:686#0/1  
aaabab\_aaaa`a\_a\_^[aa\_¥¥\_^`¥aaa^\_]\_`\_^U  
@HWI-EAS443:3:31:937:781#0/1  
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+HWI-EAS443:3:31:937:781#0/1  
aaabababbbbaaaa]a`\_a`a`\_]`\_a^a\_aa^`\_¥  
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+HWI-EAS443:3:32:1134:493#0/1  
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\_`^[\_bZ]Y^a\_a``\_aabaaaa]¥\_a]aa`a`\_a^baab  
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+HWI-EAS443:3:32:1512:1423#0/1  
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a`^abaaaa^aa[ `a`\_aaa`¥` \_` ` ` ` ^ ` ` \_\_WO  
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\_`^aaba\_a^aaU¥QZa\_a`\_S^a`UZa\_Z\_¥`\_^Maaa\_  
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+HWI-EAS443:3:32:1662:1126#0/1  
\_Vb]QMN[¥XR¥[YRU^[^NX`YWS^ZT\_V^¥^W\_^\_]a`  
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\_\_QW`\_^Q¥a^[ `YDT¥XS`P[ ]X[TY]^Z^¥^`\_\_VZY  
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a\_`¥`a¥` `Z`]^Ga`Ya`¥¥\_\_QaWYHUWa\_\_¥¥[VTQV  
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+HWI-EAS443:3:32:198:149#0/1  
aa` `aaaa\_a\_a\_` `^` ` ` `W\_¥YZ^]Z]\_ZZ]PXXY^X

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+HWI-EAS443:3:32:205:723#0/1  
a`a`[``¥\_\_\_a\_aa\_a`a\_\_``\_\_\_a\_``W\_\_U`\_`^\_  
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+HWI-EAS443:3:32:311:413#0/1  
\_``^ba\_aaZaaWZV\_]\_\_Y]]\_X`\_U\_[XMV\_`WX¥[  
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+HWI-EAS443:3:32:335:413#0/1  
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`]SX]ZXa^X``\_]`aa]]^XV]`¥`^^`W\_[\_`U\_Z]\_¥  
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+HWI-EAS443:3:32:381:528#0/1  
a\_a^V^¥```aaa\_\_WPV\_\_`¥\_¥`MS\_`]\_\_^¥Y]]]Z  
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aaa¥\_`a``aa`\_a\_``\_]\_\_\_\_`a^^\_\_^^`\_^]]\_UM¥  
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aa\_\_bab`\_aZa`a`\_`^a`^XWVa\_a\_\_\_\_`^`aa`\_  
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+HWI-EAS443:3:32:718:588#0/1  
aab[a\_aaa]a^\_a`a\_\_aY````\_a````\_]\_````X\_\_Z  
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a`F\_]\_a]\_USUHZ]X`a`\_\_a^\_]X^IY\_ZXQ^X`]\_\_  
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aa``\_\_\_\_`\_`[a\_\_^a`]Z^NPU\_^SUX\_Y^^^V\_^[\_]  
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a\_Z\_bb]`bbaaaa\_\_aaU`a]^`[ZX]^`^`]^`Z]X  
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+HWI-EAS443:3:32:892:683#0/1  
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+HWI-EAS443:3:32:923:1663#0/1  
aaaa`aa`aa`\_`^`\_`\_`\_\_^\_^V]\_`X]\_^`Z`R`XXX]  
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+HWI-EAS443:3:32:981:1430#0/1  
aabaa\_\_aaa\_`\_`^¥[^^[Z\_`]`\_`aN]^^U]Y[\_UY  
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aa`a`aaaaaaa\_`````aa\_`a\_X\_¥^^XXZW^X]Z[^  
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+HWI-EAS443:3:33:1158:952#0/1  
Z^]a`\_]\_\_\_\_¥a``^]`\_ba\_]\_]`a]¥`^WKZ`]a`a\_  
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+HWI-EAS443:3:33:1280:209#0/1  
ab`baaa\_a\_a\_\_a`\_aaa^Y¥\_a^^]^^^YWURY]Y YNU

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a]a`\_`bbb`Yaaba^ba`ZZba[a\_]aa^aY\_0``\_\_`  
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+HWI-EAS443:3:33:1292:760#0/1  
ab`a¥aaba`a``aa\_a`¥aa]UZ\_R]aaa\_N[^`RZa  
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+HWI-EAS443:3:33:1301:1454#0/1  
a[a\_abbaaZaaaa`\_aa\_a`a\_\_\_`]¥^^`VMTX\_^Y^]  
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aZ^b^[\_a]`aa\_a`PWaYNR]\_`S\_¥`Y\_\_PV\_ZS\_¥V\_  
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aaa`\_`b\_\_a`aa[`¥`^aa`W\_a`aaX`\_a\_YO\_[a^\_a[  
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+HWI-EAS443:3:33:1484:1623#0/1  
aV`\_`¥abbbb`aabababbaa`\_`ab[aZZaW^\_\_\_\_`Z\_]`  
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+HWI-EAS443:3:33:1556:1640#0/1  
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+HWI-EAS443:3:33:1576:368#0/1  
aa\_aaa`Y^¥^`^`^`¥]0\_[V^\_¥[S¥\_ZV¥UU]YXYZXU  
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+HWI-EAS443:3:33:217:1134#0/1  
a]¥aa`aaaa[aa``Xaa[\_a`\_`¥[^aaa]Z^[[^ZX\_]`  
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+HWI-EAS443:3:33:243:993#0/1  
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@HWI-EAS443:3:33:316:1883#0/1  
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+HWI-EAS443:3:33:316:1883#0/1  
\_]\_a¥a]P\_¥XU^`^`[^b^b\_abb¥Q]^`^`[U0[`^^Ua\_  
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+HWI-EAS443:3:33:330:1051#0/1  
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@HWI-EAS443:3:33:368:1681#0/1  
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+HWI-EAS443:3:33:368:1681#0/1  
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+HWI-EAS443:3:33:369:297#0/1  
aaaa\_aa`a^\_a^`\_]\_\_\_\_\_^a^\_a^`]^\_X[YZXZZX  
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+HWI-EAS443:3:33:386:1360#0/1  
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+HWI-EAS443:3:33:397:377#0/1  
aaaaaaWG[ ]\_]aa\_\_\_V]¥]\_a\_\_\_`^aaY\_X\_¥G^UZW  
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+HWI-EAS443:3:33:399:887#0/1  
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@HWI-EAS443:3:33:404:349#0/1  
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+HWI-EAS443:3:33:404:349#0/1  
aba\_aa¥aaaaaaaaaaaa`a\_aa\_a\_a\_a`Z^Yb^`^^\_  
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+HWI-EAS443:3:33:413:1210#0/1  
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+HWI-EAS443:3:33:423:185#0/1  
`baba\_[aab\_baababaaaa`a`aaa`^aa\_Z]\_\_\_]YP`  
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+HWI-EAS443:3:33:426:227#0/1  
aaaaa`aaaaa`aa`\_a`\_\_¥Z^`\_`^`^`^^`\_`^X]  
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\_]T`\_[^\_Y\_]`^a]aa\_\_^Za`aaa\_RT\_ZY\_[[[V][Z^  
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+HWI-EAS443:3:33:554:718#0/1  
abb\_bb]W[^aaaaWHY`[ `[ \_`aaa`¥` [ ]\_ ]TY\_]\_`W  
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+HWI-EAS443:3:33:573:477#0/1  
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+HWI-EAS443:3:33:600:530#0/1  
`]^`^]a^[aV^\_a[a¥^a\_` `[VTLZ^\_] [[UT¥[`ZZ\_¥  
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+HWI-EAS443:3:33:603:423#0/1  
^Yabab\_¥\_aba\_`Jba¥¥`\_a¥a\_^\_a\_aa`¥` `[[`\_`  
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+HWI-EAS443:3:33:611:525#0/1  
Y^¥[H\_^]QYaaa\_a[\_[Z`^]Q]ZWSH^]aa[\_a]]a^^  
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+HWI-EAS443:3:33:617:131#0/1  
`aaaaa\_aaaaa`a`a\_a^a`]`\_\_\_\_\_X`\_\_ZW^^V^]]X  
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+HWI-EAS443:3:33:627:1293#0/1  
aZ]^bbaaaabaabbaaaaaaaaaaZ\_Wa\_]\_\_TW^\_]Z]V  
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+HWI-EAS443:3:33:644:791#0/1  
\_0¥]^`aW`\_aaa`X¥a¥\_\_`\_]\_\_]\_^a¥^ZV^^^]¥X  
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+HWI-EAS443:3:33:684:2026#0/1  
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+HWI-EAS443:3:33:687:1398#0/1  
a\_bb]^`aaa\_aU^Ua\_a`b]\_\_\_\_\_^¥\_^^¥[ZX\_]WX]\_  
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+HWI-EAS443:3:33:742:48#0/1  
a```\_\_aaaaaaa`aaaaa\_\_`^\_V\_\_^\_]U^Z^UV^V  
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+HWI-EAS443:3:33:754:1274#0/1  
aa\_``^^babb¥bbbbbb`\_aab```\_bb^bbaPbaba^`\_  
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+HWI-EAS443:3:33:84:543#0/1  
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+HWI-EAS443:3:33:857:114#0/1  
a``^^aa`[^`\_\_`\_¥a`[]bX\_`\_`M¥U[\_ZW[TZGU^Z

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+HWI-EAS443:3:33:871:1053#0/1  
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@HWI-EAS443:3:33:878:48#0/1  
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+HWI-EAS443:3:33:878:48#0/1  
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[ `ab[WV\_V^UU^TWU¥\_\_abW]Wa[OQZXVGFRRX\_¥`X  
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+HWI-EAS443:3:33:92:744#0/1  
aWaaaaab\_\_^`\_\_a`aa`aYa\_\_\_\_a\_] [\_^\_¥WVU]V  
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+HWI-EAS443:3:33:935:1209#0/1  
`\_a^aaa`baa\_aa¥\_¥aa`UX[\_a`^aa\_a¥S^\_\_¥¥`\_  
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+HWI-EAS443:3:33:952:107#0/1  
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+HWI-EAS443:3:33:958:1235#0/1  
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+HWI-EAS443:3:33:970:1705#0/1  
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+HWI-EAS443:3:34:1027:142#0/1  
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+HWI-EAS443:3:34:1032:1322#0/1  
````\_`\_bbbZZZaaUZ¥`ab¥YabaaaYa`]`¥NX^[V[`  
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+HWI-EAS443:3:34:1076:1025#0/1
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+HWI-EAS443:3:34:1186:681#0/1
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+HWI-EAS443:3:34:1210:1388#0/1
^`b`aYaY_b```TR]_^UWZU[][_R_X[[¥XNXZYU
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+HWI-EAS443:3:34:1225:365#0/1
aa_aaab[aba``a^a`a^`aa_¥`_ZW_ZZ_W¥^W^WW
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+HWI-EAS443:3:34:1267:308#0/1
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+HWI-EAS443:3:34:1294:72#0/1
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+HWI-EAS443:3:34:1336:1788#0/1
a[^``aa_b`aaaa`aa_]U``_^a_a^]_^X[TVYK
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a`[Ga`V]__a`___¥U^^Q`YY_0_]_Y]Y_XTLUBBB
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aabbaaaa^a__R``__`_aWa]X^^[X^P[W^]^[^]V^
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+HWI-EAS443:3:34:1517:1549#0/1
ab`bbbbbbbbbbabb`bbbaaaba_aaaba`aYa]__W
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+HWI-EAS443:3:34:1537:1687#0/1
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+HWI-EAS443:3:34:1552:1797#0/1
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@HWI-EAS443:3:34:1563:1098#0/1
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+HWI-EAS443:3:34:1563:1098#0/1
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+HWI-EAS443:3:34:1564:1104#0/1
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aa_aZUaabb`ba]V[_`X`ZY_aYY^^`^a_Z^BBBBBB
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+HWI-EAS443:3:34:1745:128#0/1
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+HWI-EAS443:3:34:190:603#0/1
`b`b_b_abb[abb`Yab]aaababa`aaaaaa`a^^
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+HWI-EAS443:3:34:190:839#0/1
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+HWI-EAS443:3:34:205:606#0/1
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+HWI-EAS443:3:34:221:837#0/1
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+HWI-EAS443:3:34:276:1582#0/1
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@HWI-EAS443:3:34:328:231#0/1
CTCAATTTTCTTCTTTGTTGATTCATTGAAGTACTTCAGG
+HWI-EAS443:3:34:328:231#0/1
`_bb`bbbbbbbbbbabaaaabaaaa¥`^_aaa` [`a]
@HWI-EAS443:3:34:373:658#0/1
CCGGATTGATGCCAGGGTCGACTTCGAGTCTGGACGGATC
+HWI-EAS443:3:34:373:658#0/1
abb_` `a`] ` `^aaaVaaaa_`_Z_aUa`a` [¥`aZZ^
@HWI-EAS443:3:34:414:708#0/1
TGAGAGCAAAATCGTCGGATGATTGGAGCCCATCCCACCA
+HWI-EAS443:3:34:414:708#0/1
aa`a`_a_a` ` `a_Y^] `_]¥^Y^V]Y^^`_NY^X^YYXY
@HWI-EAS443:3:34:454:1171#0/1
GAACAATTGAAGAGCCATCTGGGCCGTTGCAGGTCCAAGG
+HWI-EAS443:3:34:454:1171#0/1
aa_baaaaa`baa`aaaa`__Q`^a__Y_`_]TX_Z]X^B
@HWI-EAS443:3:34:506:649#0/1
CCATGGGCTGGCATTACCACAGCATTGTTTACAGAATCAA
+HWI-EAS443:3:34:506:649#0/1
aa____`]^X¥^bb`_`bb_baa`]_aa_a^aaba]__aa

@HWI-EAS443:3:34:511:604#0/1
GAAAGGTACATGTTTCGAGAGTAAAAGAATGAAGATTTCGA
+HWI-EAS443:3:34:511:604#0/1
Y_¥_VQ^JRb¥YT¥^b¥aa]bT`_¥^abb¥_bb`_aPS` [
@HWI-EAS443:3:34:540:1269#0/1
CCCAGTGATTGTGAAAGAAATCTCTGTGTCTTGTGAATTA
+HWI-EAS443:3:34:540:1269#0/1
aba^`_aS`ab^^[X`¥Laab`aa`]`XaaaVVVSZGYW
@HWI-EAS443:3:34:554:1428#0/1
GTCTGGAGTAAATGAATCAGCTGACATGAGTATTGGAGTA
+HWI-EAS443:3:34:554:1428#0/1
a`bbaabaVa¥` [¥a`Xa^ZXY_____`aa_G_P[^aIYX^
@HWI-EAS443:3:34:569:83#0/1
CAAAATCGTCGGATGATTGGAGCCCATCCCACCAGTATAT
+HWI-EAS443:3:34:569:83#0/1
abb`baab_b`aaa`a__aa_aa_`a`_a^_ZWX^VX[V^
@HWI-EAS443:3:34:575:147#0/1
GAAACATCCTGAGCATGGCACCCATAATGTTCTCAAACAA
+HWI-EAS443:3:34:575:147#0/1
abbbbaaabaaaaaaa_baa_`aaa_Z_WW^`_`_^]Z^^
@HWI-EAS443:3:34:613:1545#0/1
GGTTGTTATCTCTATTTCTCTTTGTTTCATTGATTCCATT
+HWI-EAS443:3:34:613:1545#0/1
`I¥_`SYYab`X_Z[a_V_Y][[¥a^ZOX]``_`_aBB
@HWI-EAS443:3:34:655:1131#0/1
GTTCTGTTTACTGTGTCCATGGTGTATCCTGTTCTCCTGTTCT
+HWI-EAS443:3:34:655:1131#0/1
a`bbab`a`]aa__a]a```a`]a]a_`a^_[__^__]^X
@HWI-EAS443:3:34:724:895#0/1
AGAGATAACAACCCACTTTCAAAGAAAAAGGAGAGTAAGA
+HWI-EAS443:3:34:724:895#0/1
Z^`babbbb¥YaababaaabaaaaZ`b```_a`a_a^__a_
@HWI-EAS443:3:34:748:1152#0/1
GTCCCCAGTGATTGTGAAAGAAATCTCTGTGTCTTGTGAA
+HWI-EAS443:3:34:748:1152#0/1
a]ba]AY`U^^¥a¥ONV]a` [a_a^¥Y`X¥Q_^^BBBBB
@HWI-EAS443:3:34:772:1434#0/1
CAGATTAGAGGTTTTCGTATACTTTGTTGAACTTTAGCTA
+HWI-EAS443:3:34:772:1434#0/1
abbababaaaa`abaa^aabaaaa__a`a`a]__`^Y[^
@HWI-EAS443:3:34:807:1851#0/1
GATTGATGCCAGGGTCGACTTCGAGTCTGGACGGATCAAG
+HWI-EAS443:3:34:807:1851#0/1
Zbabbbbbb_`¥a¥b_ba_abaa^Yabb_a_Xa[TN_aW
@HWI-EAS443:3:34:909:343#0/1
GCCAGGGTCGACTTCGAGTCTGGACGGATCAAGAAAGAAG
+HWI-EAS443:3:34:909:343#0/1
abaaaaa¥aaaaaaa^a[aaaa`_`____`a_____R^VW
@HWI-EAS443:3:34:930:146#0/1
GGCTCCAATCATCCGACGATTTTGTCTCATAGTGAATGC

+HWI-EAS443:3:34:930:146#0/1
Za`^^_OV¥¥^`a`^¥WXRU_a_¥X]]V_^]^XVZZ^HWWB
@HWI-EAS443:3:35:1012:1567#0/1
CTCAAGAATCCCCCTTGGCTTGTGTTGAGAATAGAACGA
+HWI-EAS443:3:35:1012:1567#0/1
aa`^_YaaaaaaS_aaa]`__a`]a]aUY¥^__`Q_Z¥P^
@HWI-EAS443:3:35:1015:1193#0/1
AATCTGTCCACTCCTGCTTGTATTCCCTCATGGTTTGGTG
+HWI-EAS443:3:35:1015:1193#0/1
aaa`aa_aaa__aaa__aa`ZY`_^`a]¥X]_ZY^^_[Z¥
@HWI-EAS443:3:35:1029:551#0/1
TCTTTGATGAACAATTGAAGAGCCATCTGGGCCGTTGCAG
+HWI-EAS443:3:35:1029:551#0/1
aba`^^bbaa`X[aaa[b[`a_`[a_]a[aa`] [¥U_V^
@HWI-EAS443:3:35:1037:637#0/1
GGAATGTGGTGCTTATGGCATTTCGCGCTGGAATTTTGTAG
+HWI-EAS443:3:35:1037:637#0/1
aaY[`a_ba¥aaa`a]_^`X^`_`_¥aZ`a¥YP[a^`] ^`
@HWI-EAS443:3:35:1066:1223#0/1
GGCTTGTGTTGAGAATAGAACGATTCCCTCTTGGGAATCCA
+HWI-EAS443:3:35:1066:1223#0/1
XO_^^^T_JW`UYT`X`_`¥Xa[X`] `PaZQX_XLTT[VV
@HWI-EAS443:3:35:1072:1032#0/1
GTTGATCCCACTAACTTGCAGGTCCTGTAGAATCTGTCC
+HWI-EAS443:3:35:1072:1032#0/1
UKY¥^_aaWP_a]`¥^aa`a^b¥¥]a`a^Y^Ya^aa_NT`
@HWI-EAS443:3:35:1072:483#0/1
GGGCTCCAATCATCCGACGATTTTGTCTCATAGTGAATG
+HWI-EAS443:3:35:1072:483#0/1
aa__a``aa``Ya_¥__^`^^^Ya_U_Y[a^Z^¥V^_]X
@HWI-EAS443:3:35:110:76#0/1
GACGGATCAAGAAAGAAGAGTTCTCTGAGATCATGAAGAT
+HWI-EAS443:3:35:110:76#0/1
abba`Oaaa_aaa``]a_^`_aaaa`_]_^`__a__^`^
@HWI-EAS443:3:35:1134:1565#0/1
ATGATAAACAATGACCTTGGACCTGCAACGCCAGATGG
+HWI-EAS443:3:35:1134:1565#0/1
aa[aaaaZ^`^[YT¥I^`¥V^`X__LZXa_^`a[XNQ][R
@HWI-EAS443:3:35:1136:316#0/1
GATTGATGGACCACTACCTGAGGATAATGAACCAAGTGGG
+HWI-EAS443:3:35:1136:316#0/1
^`baa`_^`a```aaaa`a_`ba`a``]a`_W_[]Y
@HWI-EAS443:3:35:1152:234#0/1
CTGTTTACTGTGTCCATGGTGTATCCTGTTCCCTGTTCCAT
+HWI-EAS443:3:35:1152:234#0/1
ab`[aaaa^aYb[aaaaba¥bZaaa_aa``a_ab_YS]T`
@HWI-EAS443:3:35:1173:1347#0/1
AAAAATCCAGCGCAAATGCCATAAGCACCATTCCT
+HWI-EAS443:3:35:1173:1347#0/1
aba`V_¥a`a`a___^`¥^_]__`__W_a`_]_Y]`Z^

@HWI-EAS443:3:35:117:723#0/1
GAATCCCCTTTGGCTTGTGTTGAGAATAGAACGATTCCT
+HWI-EAS443:3:35:117:723#0/1
``^_Ub``aa[Z¥W`]a_a]R¥PYWGOZ^YRY[¥PU_LX
@HWI-EAS443:3:35:1207:1899#0/1
AATCCGACTCTACTTTTCCTAAAAATCCAGCGCAAAATG
+HWI-EAS443:3:35:1207:1899#0/1
^¥`bbaaaa`Sa[^Z`a][`bb`b]_a[_a]__a`aZbLQ
@HWI-EAS443:3:35:1225:1758#0/1
TAAAAATCCAGCGCAAAATGCCATAAGCACCATTCCTCC
+HWI-EAS443:3:35:1225:1758#0/1
ab]`¥V_]a^`]]_]¥`_`^a`]a¥¥Vaaa_aa`X`]0]
@HWI-EAS443:3:35:122:210#0/1
GACGGATCAAGAAAGAAGAGTTCTCTGAGATCATGAAGAT
+HWI-EAS443:3:35:122:210#0/1
aZaaa^`b¥Z¥¥`_`a_]a]aa`[a_`_^]¥]a]Y[`]
@HWI-EAS443:3:35:1255:1812#0/1
CAAATATTCCTGGGTGGGATTCTTCAAGGAAAGCCATAGC
+HWI-EAS443:3:35:1255:1812#0/1
]_]``_baa`a_]XFY_]¥^a[a_^]Y`^Z`_a[^aZ_
@HWI-EAS443:3:35:1258:669#0/1
TCTGGACGGATCAAGAAAGAAGAGTTCTCTGAGATCATGA
+HWI-EAS443:3:35:1258:669#0/1
abbbbaabaaa_aaaaa`a`aa^aaaaaaaaa````__
@HWI-EAS443:3:35:1263:845#0/1
CACCTATATGTGTATCTGTAGTCTTTGATGAACAATTGAA
+HWI-EAS443:3:35:1263:845#0/1
aa[¥a]^bba_`^`bbaYP_ZYa__¥a]]aa`[aa_`a_b
@HWI-EAS443:3:35:1264:1730#0/1
GAGGCTATCTAATAAGAGCACTGACATTAATACGATGAC
+HWI-EAS443:3:35:1264:1730#0/1
aabbbba_`_`b`a^a`a_`^`[aaaa`baa`^¥`Za
@HWI-EAS443:3:35:1287:580#0/1
AGCTGATTCATTTACTCCAGACACTCCAAAGCTGGGTAGC
+HWI-EAS443:3:35:1287:580#0/1
aaaabaaaaabaaaa^aa__a`a]a_`^^`_`X`]a
@HWI-EAS443:3:35:1292:257#0/1
GGGATGGGCTCCAATCATCCGACGATTTTGCTCTCATAGT
+HWI-EAS443:3:35:1292:257#0/1
aba`aaabaaa_aaa_`_]a_¥a]^a¥_a_`_`^Y_]Y
@HWI-EAS443:3:35:1295:661#0/1
GCAACGGCCCAGATGGCTCTTCAATTGTTTCATCAAAGACT
+HWI-EAS443:3:35:1295:661#0/1
aaaaaYQ[_¥[^[[[R[WZ]UUU[ZXW^_[[RZWZRN
@HWI-EAS443:3:35:1311:360#0/1
GACGGATCAAGAAAGAAGAGTTCTCTGAGATCATGAAGAT
+HWI-EAS443:3:35:1311:360#0/1
_Z`X]a_a_aaaa]]aaaaZa`b_aa^a``[``a`^a^_
@HWI-EAS443:3:35:1372:1387#0/1
CACTAACTTGCAGGTCCTGTAGAATCTGTCCACTCCTGCT

+HWI-EAS443:3:35:1372:1387#0/1
_[abb`b[`b`bbaI]ab`aabbbb`aa_b¥WR`S]_aN
@HWI-EAS443:3:35:1410:310#0/1
GCCTCTTCTAATAGATGGCACAGCATCACTGAGTCCTGGG
+HWI-EAS443:3:35:1410:310#0/1
`ababbababbbbabbaaaaabaaa`_aabaa`^[aaaa
@HWI-EAS443:3:35:1434:959#0/1
GTAAGAGACAACATGACCAAGAAGATGGTCACGCAAAGAA
+HWI-EAS443:3:35:1434:959#0/1
a[a^b`bba`a^YU`[¥]X[_aWW`LKY¥Ta`_]V^[V
@HWI-EAS443:3:35:1436:1534#0/1
ATGCTCAGGATGTTTCTGAACCACTCGGGTTGATTTCTGG
+HWI-EAS443:3:35:1436:1534#0/1
aaaa_b]U[_`]S`[[ba`aaa¥`TNXY`Xa¥P[_WYaY[
@HWI-EAS443:3:35:1450:487#0/1
AGAGAGGCTATCTAATAAGAGCACTGACATTAATACGAT
+HWI-EAS443:3:35:1450:487#0/1
aaaa`aa_a_OFZQZ^SQLR]SWTQOOFRP_S[_UXOXBB
@HWI-EAS443:3:35:1465:1129#0/1
GAAATCTATTAGCCTTCCTGACTCATTAGCTGTTAGGCCA
+HWI-EAS443:3:35:1465:1129#0/1
aYV¥aK_W[aaY[_a`WQaaXWaWRaaH[a`ZBBBBBBB
@HWI-EAS443:3:35:1524:1514#0/1
CAGATCTTCATGATCTCAGAGAACTCTTCTTTCTTGATCC
+HWI-EAS443:3:35:1524:1514#0/1
]`a]_bbaaaV^^a`[aaa¥`aaa_Q`Z`aabaa``_`Na
@HWI-EAS443:3:35:1540:15#0/1
GTTTGGTCTCCATCTGATACTAATAGCCCTACCTTTGAT
+HWI-EAS443:3:35:1540:15#0/1
a¥`^a`ZRY`YNT]L[aZY¥WVZTVRXPXRRNSWWWVWSV
@HWI-EAS443:3:35:1556:1003#0/1
GAGGAAATAGAGATAACAACCCACTTTCAAAGAAAAAGGA
+HWI-EAS443:3:35:1556:1003#0/1
¥Y`_SVT_V]]`S_`a`aa]¥R¥]`aWJT]_aab^^¥aR]
@HWI-EAS443:3:35:1563:353#0/1
ATCCCCCTTTGGCTTGTGTTGAGAATAGAACGATTCCTCT
+HWI-EAS443:3:35:1563:353#0/1
a¥US¥Z`¥`a¥a_YY]P_[__V_[TN]U¥^[[]SYQQTIP
@HWI-EAS443:3:35:1617:1299#0/1
GTCAGTGCTCTTATTAGATAGCCTCTCTTATTGAGTCTTT
+HWI-EAS443:3:35:1617:1299#0/1
a¥^¥]TR[`]0_[[WZ`T]VW[VVNV¥Y^Z[[[XROWP[
@HWI-EAS443:3:35:1715:294#0/1
AAGAAATACACCAAGACAATATACTGGTGGGATGGGCTCC
+HWI-EAS443:3:35:1715:294#0/1
¥_X_bba_baZ`bb_Z[`^aa`b]_a]F_ba]__a]ZZR_
@HWI-EAS443:3:35:1733:830#0/1
GGCCATGGTGTCTAGGGCCCGGATTGATGCCAGGGTCGAC
+HWI-EAS443:3:35:1733:830#0/1
a`a`a`a``¥`^^X`^Z[_R]¥¥¥YY]^X`aTSX`RX

@HWI-EAS443:3:35:1743:1977#0/1
GATGTCAATCCGACTCTACTTTTCCTAAAAATCCAGCGC
+HWI-EAS443:3:35:1743:1977#0/1
[_PP¥_]_¥X_¥[YX_]_Z¥¥¥Y[DP_`¥abb¥R^H^V¥
@HWI-EAS443:3:35:1759:95#0/1
GAACAATTGAAGAGCCATCTGGGCCGTTGCAGGTCCAAGG
+HWI-EAS443:3:35:1759:95#0/1
aa`^aaaaaaaa`aX[_a]`a[_VV]^`_]a`YUTWUWZ
@HWI-EAS443:3:35:1785:845#0/1
GTGATTGTGAAAGAAATCTCTGTGTCTTGTGAATTAGTCA
+HWI-EAS443:3:35:1785:845#0/1
aZ`U`aa_a``a_____]a]`^^XU`¥XW_[U]XNZTRY
@HWI-EAS443:3:35:1789:359#0/1
GAACAATTGAAGAGCCATCTGGGCCGTTGCAGGTCCAAGG
+HWI-EAS443:3:35:1789:359#0/1
¥_^__Z_babaXXST_b`abbbbaSb¥abbabbI¥`aZY]
@HWI-EAS443:3:35:297:1818#0/1
CTGGAGTAAATGAATCAGCTGACATGAGTATTGGAGTAAC
+HWI-EAS443:3:35:297:1818#0/1
aba^Y^^bbababbaba[aa[baa``a_]a_`__`VU¥`a
@HWI-EAS443:3:35:342:165#0/1
ATCATAAGTCTGGCGACCTTGAGTTAGTTTATCTACCCCT
+HWI-EAS443:3:35:342:165#0/1
¥MT`Y`X[WaX¥Z]`¥Y^YY^LW¥THWRSXZWSUZXXWV
@HWI-EAS443:3:35:349:325#0/1
ATAGGAGACCGTTGGAATTTCTAGCATGGTGGAGGCCAT
+HWI-EAS443:3:35:349:325#0/1
aaUb`Sa_UbX]SaXaa]V_^a]XY[J^aXU_ZFXDL`UM
@HWI-EAS443:3:35:395:556#0/1
TGGCTCTTCAATTGTTTCATCAAAGACTACAGATACACATA
+HWI-EAS443:3:35:395:556#0/1
a`_a^`b_b`_`aTQ¥]W]LZ^[^]]`]]]XY]aWQTZ
@HWI-EAS443:3:35:450:501#0/1
GTCCTCCATCTGATACTAATAGCCCTACCTTTGATTGGGT
+HWI-EAS443:3:35:450:501#0/1
a]a`a__¥_a__^`_]`^`^XUX^`_Z_XZZV[^Z^XRZ
@HWI-EAS443:3:35:454:836#0/1
ATTCTTTTACTCTCGAACATGTACCCTTTCCCTAGTCTTG
+HWI-EAS443:3:35:454:836#0/1
¥aaaaababbabaaaaaa^`^aaaa_a]baa]KRV`^`[
@HWI-EAS443:3:35:460:1297#0/1
ATCCGACTCTACTTTTCCTAAAAATCCAGCGCAAAATGC
+HWI-EAS443:3:35:460:1297#0/1
¥R¥]UX_]b^]`^`]aa]`a¥P^NX^¥0¥¥`X^]a]_SOW
@HWI-EAS443:3:35:495:135#0/1
CATTGCCCCCTACTGGGAGCCCAGACTGTTCAAGCTTTTC
+HWI-EAS443:3:35:495:135#0/1
a`XZZ_]aaa`^V¥Y``aa¥ZU[¥Z¥_W_[M]`¥¥[_Z[
@HWI-EAS443:3:35:511:1075#0/1
CTCCATCTGATACTAATAGCCCTACCTTTGATTGGGTTTG

+HWI-EAS443:3:35:511:1075#0/1
aaba]aaaba`aaaa^aaa`aa_`^`_`a_`^`_`W]^]
@HWI-EAS443:3:35:517:1579#0/1
GTCCTCCATCTGATACTAATAGCCCTACCTTTGATTGGGT
+HWI-EAS443:3:35:517:1579#0/1
a^ababaaaaa_`aaaab`aa_a`aaY^`_]`^`_`_`U`Z
@HWI-EAS443:3:35:546:65#0/1
TAGCTGTTAGGCCATTTCGATCTAAAGACTTCTATGGTGTT
+HWI-EAS443:3:35:546:65#0/1
`ba`bba_`ababb`]U^`^`[TWWVM]VPT_[]^XNVWU
@HWI-EAS443:3:35:568:1850#0/1
CACCTATATGTGTATCTGTAGTCTTTGATGAACAATTGAA
+HWI-EAS443:3:35:568:1850#0/1
a^`a`b`a`a`X`ab`]`a`a`VRX`aaY`]`_`aaa]a`_]W`a
@HWI-EAS443:3:35:598:454#0/1
GAATCCCACCCAGGAATATTTGAGAATTCATGCCTTGAAA
+HWI-EAS443:3:35:598:454#0/1
`^`^`aaa`aaaaaaa`aaa`^`aaa`_`_`X]`a`^`_`_`Y`Y
@HWI-EAS443:3:35:611:1067#0/1
GAGACAACATGACCAAGAAGATGGTCACGCAAAGAACAAT
+HWI-EAS443:3:35:611:1067#0/1
ab^^aaaa^`abaaaaaa`_`_`_]a`^`_`_`_`_]`^`^`]
@HWI-EAS443:3:35:659:304#0/1
CTTTAAGAAATCTATTAGCCTTCCTGACTCATTAGCTGTT
+HWI-EAS443:3:35:659:304#0/1
abaYZWZ`^Za^``_`^`aaa`Z`^`Z]Z`^`Y]`aY`^`]OJ
@HWI-EAS443:3:35:663:541#0/1
CCTTTGGCTTGTGTTGAGAATAGAACGATTCCTCTTGGGA
+HWI-EAS443:3:35:663:541#0/1
`aRZ`bb^`]Z0]`_`YU[`_`_`a]`_`^`OXITJ[]]Q[T`^`^`ZS
@HWI-EAS443:3:35:674:1185#0/1
ACTGCATTGGCCAACACCATAGAAGTCTTTAGATCGAATG
+HWI-EAS443:3:35:674:1185#0/1
aa^Z`aXa`W]`_`_`^`_`_`aa`_`X`X[ZKZY]UW`_`_`[S`_`XT
@HWI-EAS443:3:35:701:372#0/1
ATAACAACCCACTTTCAAAGAAAAAGGAGAGTAAGAGACA
+HWI-EAS443:3:35:701:372#0/1
`ba]aaaaaaaa`_`_`aaa`_`_`_`X`a]a^`Zaa`_`_`aZa
@HWI-EAS443:3:35:712:1525#0/1
GAAGTACTTCAATGAATCAACAAAGAAGAAAATTGAGAAA
+HWI-EAS443:3:35:712:1525#0/1
]Za^a^^`Ra^]`_`^`V`^`]aaaaa[JYZVZ^`]Q[Ya`^`
@HWI-EAS443:3:35:733:1765#0/1
CCGGCAGCAACTGCATTGGCCAACACCATAGAAGTCTTTA
+HWI-EAS443:3:35:733:1765#0/1
ab_abbabbba`aba`aaaa`a`a`a`b`^S]`^`^`_`_`^`
@HWI-EAS443:3:35:739:572#0/1
CCCAGGTGTTGCGATAGCCCTTCTTTTTAACTTGCCCTCTC
+HWI-EAS443:3:35:739:572#0/1
aba`_`S`]`^`^`]aZV`]a_a`[^]`^`]SYXa_[][_a`^`

@HWI-EAS443:3:35:73:982#0/1
TGCCAGGGTCGACTTCGAGTCTGGACGGATCAAGAAAGAA
+HWI-EAS443:3:35:73:982#0/1
aabb`baa_b`^`aaaa`^_aa]a`_^`OVa_U_[`a^`U
@HWI-EAS443:3:35:744:846#0/1
GAACAATTGAAGAGCCATCTGGGCCGTTGCAGGTCCAAGG
+HWI-EAS443:3:35:744:846#0/1
ZZZb`abba`baababaabab`b`a`_aaa¥aaVaaaaa_
@HWI-EAS443:3:35:746:1177#0/1
GGGCTATTAGTATCAGATGGAGGACCAAACCTTATACAATA
+HWI-EAS443:3:35:746:1177#0/1
[`a^X`^`^`[[abaaa[Va^W^`]]_Xa^`_a_S_aaa_Y
@HWI-EAS443:3:35:755:946#0/1
GTTGAGAATAGAACGATTCCCTCTTGGGAATCCAGGAATGT
+HWI-EAS443:3:35:755:946#0/1
aY]^Ma__¥b_aa]a[S_^`_]Y`]Y_P¥T_ZQ¥ZRTX[R
@HWI-EAS443:3:35:75:940#0/1
GCCATGGTGTCTAGGGCCCGATTGATGCCAGGGTCGACT
+HWI-EAS443:3:35:75:940#0/1
_`a``aa¥a`T`_a]a`a`Z`X]]`a_J¥a]N`]TZU
@HWI-EAS443:3:35:763:430#0/1
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+HWI-EAS443:3:35:763:430#0/1
aaU_aZ`bb¥H]a¥a]^ab_aaba__b]a_aba`aGa__a
@HWI-EAS443:3:35:787:1345#0/1
AGCAGACTTCAGGAATGTGAAGATTCCGTATATTGTATAA
+HWI-EAS443:3:35:787:1345#0/1
]ab¥YM^Y]a__]TZ`aUTVW]^]^T^]RPX__X]]^^WZ
@HWI-EAS443:3:35:804:586#0/1
CAGCAACTGCATTGGCCAACACCATAGAAGTCTTTAGATC
+HWI-EAS443:3:35:804:586#0/1
a_X_a_abbaba_a^ab_a`][`_]`_WHX¥a``¥`aa_a
@HWI-EAS443:3:35:806:53#0/1
GTACCCTTTCCCTAGTCTTGCCATTTTGTGAGAACATT
+HWI-EAS443:3:35:806:53#0/1
a_]_aa_]Y^a¥RT^V]]]V_VT_YWXXRXY]^SLUVV]Y
@HWI-EAS443:3:35:816:1099#0/1
CTCCTGCTTGTATTCCCTCATGGTTTGGTGCATTCACTAT
+HWI-EAS443:3:35:816:1099#0/1
a^]a_a`¥ab^`_a]UYW_U_`¥^XUYTQ`UQYZ`ZR][Z
@HWI-EAS443:3:35:81:1072#0/1
GATTCCGTATATTGTATAAGTTTGGTCCCTCCATCTGATAC
+HWI-EAS443:3:35:81:1072#0/1
`_abbbb_¥abbbb`^aa[`baba_baabbbabaaa_aa
@HWI-EAS443:3:35:843:41#0/1
GGTGCTTATGGCATTGCGCTGGAATTTTGTAGGAAAAGT
+HWI-EAS443:3:35:843:41#0/1
aZL_aWN]^¥[]¥XRX¥YQWNNNV]LNPUXUZZZTQSSSR
@HWI-EAS443:3:35:968:713#0/1
ATCGCTATGGATTTGTGGCTAATTTTGTAGCATGGAGCTACC

+HWI-EAS443:3:35:968:713#0/1
`¥^¥`¥a`_¥^`_QZ][Y^^^_a`]PLYXYLVPVJNUIX
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GGGCTATCGCAACACCTGGGATGCAGATTAGAGGTTTCGT
+HWI-EAS443:3:35:975:921#0/1
^^`bbbbba¥^_aaaab_]a`a^^a_a_^]]a`]]`a__
@HWI-EAS443:3:35:977:200#0/1
CCCCAGTGATTGTGAAAGAAATCTCTGTGTCTTGTGAATT
+HWI-EAS443:3:35:977:200#0/1
ab^abbab^aba^a```a`a_``]X`a_aXaa^PXWWWYV
@HWI-EAS443:3:36:1000:456#0/1
CGTTCTATTCTCAACACAAGCCAAAGGGGAATTCTTGAGG
+HWI-EAS443:3:36:1000:456#0/1
aaTaa¥¥^`V_S]``]`Zab`a__]aa]`KKT]]__]Q_[
@HWI-EAS443:3:36:1003:1184#0/1
TGAACAAAGAGGAAATAGAGATAACAACCCACTTTCAAAG
+HWI-EAS443:3:36:1003:1184#0/1
^aabba`V`aaa^^abbbabaaab___Zaa_Waa_`a¥[`
@HWI-EAS443:3:36:1005:1927#0/1
CTCCCAGTAGGGGCAATGAAAAGAAGCCAAACTGGCAA
+HWI-EAS443:3:36:1005:1927#0/1
aabbba`b```aaaabbaababb^bba`bb`_a¥a``baa
@HWI-EAS443:3:36:1008:1255#0/1
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+HWI-EAS443:3:36:1008:1255#0/1
`NWZaUWZ_HSSWTZNZ^W[_PYR```]H`NNZ]^WTXZT[
@HWI-EAS443:3:36:1025:931#0/1
TTCCCCTTTGGCTTGTGTTGAGAATAGAACGATTCCCTCTT
+HWI-EAS443:3:36:1025:931#0/1
a[aaaaaaaa`a`^a_a_YaW__`__^Za]Y^_]R]^]
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AGAAGATGGTCACGCAAAGAACAATAGGGAAGAAAAACA
+HWI-EAS443:3:36:1032:154#0/1
abbbb]bba][`aaa`aaa¥__^^`_`aZY]_^]__aT^
@HWI-EAS443:3:36:1036:422#0/1
GAATCTGTCCACTCCTGCTTGTATTCCCTCATGGTTTGGT
+HWI-EAS443:3:36:1036:422#0/1
a`_aabb`baaa```aaa`aa^`a`^aV`_`^]^[`^a_Y
@HWI-EAS443:3:36:1044:469#0/1
GATTGATGCCAGGGTCGACTTCGAGTCTGGACGGATCAAG
+HWI-EAS443:3:36:1044:469#0/1
aa```_`_a¥U¥^]aU[ZYY¥]V^`_W¥[¥`ZW^`^X[YZ[
@HWI-EAS443:3:36:1093:637#0/1
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+HWI-EAS443:3:36:1093:637#0/1
a``Y````^^ZUa]a_[[`^`^^]V][R[]]XVNU^YX_V
@HWI-EAS443:3:36:109:243#0/1
CAAAATCGTCGGATGATTGGAGCCCATCCCACCGTATAT
+HWI-EAS443:3:36:109:243#0/1
aa`¥b_b`^aa^^^`^^__ZP[_aWSZ__][W¥]W[VYVVV

@HWI-EAS443:3:36:1102:1581#0/1
ATCCCACCCAGGAATATTTGAGAATTCATGCCTTGAAACA
+HWI-EAS443:3:36:1102:1581#0/1
a`bbaab`aa_Ya`_aa¥[_¥aa`_a____[T^X__K]^
@HWI-EAS443:3:36:1116:1592#0/1
GGCTAATTTTAGCATGGAGCTACCCAGCTTTGGAGTGTCT
+HWI-EAS443:3:36:1116:1592#0/1
R[___YT`_a^¥`_W_]¥`b`¥a_aWa`_X¥¥¥0Za^b
@HWI-EAS443:3:36:1138:903#0/1
GTGCATTCACTATGAGAGCAAATCGTCGGATGATTGGAG
+HWI-EAS443:3:36:1138:903#0/1
a_babbbba^_a`aa`aaa`_]a`a``__aaa]^`^`_`X_
@HWI-EAS443:3:36:1153:581#0/1
GCTGGTATTTGTGTTCGAATCTTCATTCTTTACTCTCGA
+HWI-EAS443:3:36:1153:581#0/1
a`aba_]`a_a`X`aa`Z`Za]a_a`]a____^`_`^`Y
@HWI-EAS443:3:36:1208:773#0/1
AAAAATTCCAGCGCAAATGCCATAAGCACCATTCCT
+HWI-EAS443:3:36:1208:773#0/1
a_Y`]a`aa`^a`__`¥__Z¥a`_^`U`__^^`_`^Y]
@HWI-EAS443:3:36:1209:1669#0/1
GGGTTGTTATCTCTATTTCTCTTTGTTTCATTGATTCCAT
+HWI-EAS443:3:36:1209:1669#0/1
¥^b`bbababbaba_bbaaaabaaaa`aaba^`_a`baaa
@HWI-EAS443:3:36:1224:791#0/1
GAAAAGGGAAAGTGGACGACAAACACAGAGACTGGTGCAC
+HWI-EAS443:3:36:1224:791#0/1
aa_a`aa_Ya_aYa^^a``]a`]Z]¥__W¥_Y^UWU¥¥¥_
@HWI-EAS443:3:36:1230:92#0/1
TATTGGTGTGTTCTGTTTACTGTGTCCATGGTGTATCCTG
+HWI-EAS443:3:36:1230:92#0/1
a`babb^b^a_a]aa]`a`]`_]a_Y`__VXY]Z[___Y
@HWI-EAS443:3:36:1247:1898#0/1
GGTCCATCAATCGGGTTGAGCTGGGGTGCACCAGTCTCTG
+HWI-EAS443:3:36:1247:1898#0/1
abKb` `[`ZaZ^aa`W_]¥¥a^`^`RRT¥aaS]_YU``]`
@HWI-EAS443:3:36:1266:948#0/1
GGGCTCCAATCATCCGACGATTTTGCTCTCATAGTGAATG
+HWI-EAS443:3:36:1266:948#0/1
_TZ¥QSYSXZ]UZL[[]X]YR^X^ZV[NUYTLTGXVFLT¥
@HWI-EAS443:3:36:1268:565#0/1
ACATGTTTCGAGAGTAAAAGAATGAAGATTCGAACACAAAT
+HWI-EAS443:3:36:1268:565#0/1
a`a`a^`a_aa`a_aa`aaaaaaIZ[___`^]`_`^`__
@HWI-EAS443:3:36:128:712#0/1
GCTAGGAGCATTGCGAAAAGCTTGAACAGTCTGGGCTCC
+HWI-EAS443:3:36:128:712#0/1
]b`bba[`abaa`^ab^SaX_aa`aY0[Z^[___]T]aZaa
@HWI-EAS443:3:36:1294:29#0/1
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+HWI-EAS443:3:36:1294:29#0/1
ababa`abab¥^aaaaaaaa`a`aa`V`aa_]_``^``]
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+HWI-EAS443:3:36:1301:769#0/1
_`babbab`_bababaabbbbabababbabba_bbbba_
@HWI-EAS443:3:36:1313:523#0/1
ATTGGAGCCCATCCCACCAGTATATTGTCTTGGTGTATTT
+HWI-EAS443:3:36:1313:523#0/1
`aa`b^_bbaaaa`¥aaa_a^^^a`aX`^`^WQT]VQY_Z
@HWI-EAS443:3:36:1346:1436#0/1
GCTGGCATTACCACAGCATTGTTTACAGAATCAATCTCTT
+HWI-EAS443:3:36:1346:1436#0/1
abbbbbbbbbbbbabbbbabbbbaaabab_aababaaa
@HWI-EAS443:3:36:1369:1670#0/1
TGGGAGCTAATGGATGATGATTATCGGGGAAGACTTTGTA
+HWI-EAS443:3:36:1369:1670#0/1
`b_[T_a_W]``_`^a___aa`b]¥]a``YQYZU¥a[ZSW
@HWI-EAS443:3:36:1380:1708#0/1
ACTGCATTGGCCAACACCATAGAAGTCTTTAGATCGAATG
+HWI-EAS443:3:36:1380:1708#0/1
_`^b¥b`aa`baaa`aaa_aaaa]¥Ya`_`a`^``]]`W^
@HWI-EAS443:3:36:144:1502#0/1
GTGGGATGGGCTCCAATCATCCGACGATTTTGCTCTCATA
+HWI-EAS443:3:36:144:1502#0/1
aZ^¥`[a^a_b_ab`])`aa___`_Z``^`____`_`W`_ZQ
@HWI-EAS443:3:36:1456:1442#0/1
GATTGATGCCAGGGTCGACTTCGAGTCTGGACGGATCAAG
+HWI-EAS443:3:36:1456:1442#0/1
```a`^aab^aY]^WZY\_Za\_Y]^`^a^a`\_T`\_Ya^Za  
@HWI-EAS443:3:36:1466:1834#0/1  
AATAAGAGCACTGACATTAATACGATGACCAAAGATGCA  
+HWI-EAS443:3:36:1466:1834#0/1  
`a`X\_a^[a\_b^[aaa¥`[a]aba\_\_aS]0]QZ^aa\_bSa  
@HWI-EAS443:3:36:1489:286#0/1  
CTGGAGTAAATGAATCAGCTGACATGAGTATTGGAGTAAC  
+HWI-EAS443:3:36:1489:286#0/1  
abbbaaaabba`aababbabba`bbaaa\_aaaaa`^Za\_a  
@HWI-EAS443:3:36:1502:1973#0/1  
CTTCTAATAGATGGCACAGCATCACTGAGTCTGGGATGA  
+HWI-EAS443:3:36:1502:1973#0/1  
a¥W`abaaaa[VYXUaaa`a`]YYJZaU`P¥NWZXUZ]X\_  
@HWI-EAS443:3:36:150:1964#0/1  
AGACAATATACTGGTGGGATGGGCTCCAATCATCCGACGA  
+HWI-EAS443:3:36:150:1964#0/1  
aabb`X]aaaa\_aa]\_``^]\_]`])`aV^)`\_]`^`SU\_[T  
@HWI-EAS443:3:36:1534:867#0/1  
TGTTGATTCCCATAACTTGCAGGTCCTGTAGAATCTGTC  
+HWI-EAS443:3:36:1534:867#0/1  
aa`a`])`aaZa`aa`aaa\_^aa\_Y^a^a^a\_]\_``\_`\_V^



@HWI-EAS443:3:36:1541:533#0/1  
GATACACATATAGGTGCCATAGGGGAGACACACAAATTCA  
+HWI-EAS443:3:36:1541:533#0/1  
a`baaaaabaa`[a^aa^`^a\_a\_\_a]\_\_^\_\_`]a\_N`  
@HWI-EAS443:3:36:1567:728#0/1  
AGTCTTCCCCGATAATCATCATCCATTAGCTCCCATTTTA  
+HWI-EAS443:3:36:1567:728#0/1  
abJ`WU``YY`Y^WP\_a\_a]Z\_ZQ[]WR\_¥ZVLW]^`^^]^  
@HWI-EAS443:3:36:1569:1346#0/1  
GAACAATTGAAGAGCCATCTGGGCCGTTGCAGGTCCAAGG  
+HWI-EAS443:3:36:1569:1346#0/1  
`Z^aa¥aaaa^]\_a`]a\_V^]^\_\_Z[WFY]PLKXYQYUX  
@HWI-EAS443:3:36:1569:774#0/1  
TTTCATTGCCCCCTACTGGGAGCCCAGACTGTTCAAGCTT  
+HWI-EAS443:3:36:1569:774#0/1  
V^a\_\_¥\_\_baa\_aZ^QaaZ[]^]^TVQR`]XQYZ\_^[]TY  
@HWI-EAS443:3:36:1588:849#0/1  
CACCAAGACAATATACTGGTGGGATGGGCTCCAATCATCC  
+HWI-EAS443:3:36:1588:849#0/1  
abab\_X\_aaabbb`\_aaba[bbbaabb]\_^\_Ua\_b`baVa  
@HWI-EAS443:3:36:1589:1124#0/1  
CTGCATTGGCCAACACCATAGAAGTCTTTAGATCGAATGG  
+HWI-EAS443:3:36:1589:1124#0/1  
`bbaabbbbaaaaaa``aaaa`\_a\_\_b`aa`^`^a\_a`[`  
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AAAGACTTCTATGGTGTGGCCAATGCAGTTGCTGCCGGT  
+HWI-EAS443:3:36:159:1731#0/1  
a`Y[K]aaaa\_\_QYY^^\_Waaa`^^b^[]¥R¥\_]``[UW  
@HWI-EAS443:3:36:1626:282#0/1  
CTGGAGTAAATGAATCAGCTGACATGAGTATTGGAGTAAC  
+HWI-EAS443:3:36:1626:282#0/1  
abbbbaabbbbaab`bb`aaa`aabaa\_aaaa`\_`]a^`  
@HWI-EAS443:3:36:1673:466#0/1  
CGATGACCAAAGATGCAGAGAGAGGCAAGTTAAAAAGAAG  
+HWI-EAS443:3:36:1673:466#0/1  
abbaba\_aaaaaa¥ba`aba[[]`¥b\_baaaa`aaa`a]  
@HWI-EAS443:3:36:16:565#0/1  
GTCTGGGCTCCCAGTAGGGGCAATGAAAAGAAGGCCAAA  
+HWI-EAS443:3:36:16:565#0/1  
aa¥WWWV\_a`]\_`aVV]aX```XVN]QZ^^VVZXU\_]Y`^  
@HWI-EAS443:3:36:1700:484#0/1  
GAAATCTCTGTGTCTTGTGAATTAGTCATCATCTTTCTCA  
+HWI-EAS443:3:36:1700:484#0/1  
aaa¥a`bab\_\_`aaaa\_]aW\_`\_U]Z]^aYQ]T^a^`¥ST  
@HWI-EAS443:3:36:1703:1347#0/1  
GACGATTTTGTCTCATAGTGAATGCACCAAACCATGAGG  
+HWI-EAS443:3:36:1703:1347#0/1  
a\_ab]`]aa```]`V]a`][[V^\_YP[UYXUSVV]`aZZ`  
@HWI-EAS443:3:36:1789:811#0/1  
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+HWI-EAS443:3:36:1789:811#0/1  
aabbababaaabWb`bba`a`a`aa``a^aVaaa^\_a  
@HWI-EAS443:3:36:1791:670#0/1  
CTTGAACAGTCTGGGCTCCCAGTAGGGGCAATGAAAAGA  
+HWI-EAS443:3:36:1791:670#0/1  
abbb`bba^`\_aa`¥¥aa\_W`aZ`\_`a¥a]a^``\_``\_Y\_  
@HWI-EAS443:3:36:199:460#0/1  
AACAGATCTTCATGATCTCAGAGAACTCTTCTTTCTTGAT  
+HWI-EAS443:3:36:199:460#0/1  
\_Y^VXXT¥UQaa`TIRTVLWZH\_[P[[]SU\_ZO]ZWUW^R  
@HWI-EAS443:3:36:203:1399#0/1  
GAACAATTGAAGAGCCATCTGGGCCGTTGCAGGTCCAAGG  
+HWI-EAS443:3:36:203:1399#0/1  
a^R\_¥a`^]`^b]^`^a\_aa]^`^\_aaZ`^HZ[W¥SGSUV  
@HWI-EAS443:3:36:211:1445#0/1  
AGCCTCTCTTATTTCAGTCTTTGTTTTTTCTTCCCTATTGT  
+HWI-EAS443:3:36:211:1445#0/1  
]\_babbbbbb`bababb`aaaaabbSbabb`a`U¥  
@HWI-EAS443:3:36:218:1950#0/1  
AAAGAGGAAATAGAGATAACAACCCACTTTCAAAGAAAA  
+HWI-EAS443:3:36:218:1950#0/1  
aaaa`aa`aaa^a\_a\_]bbaaaa`a`\_\_^b\_````\_\_\_\_  
@HWI-EAS443:3:36:230:1574#0/1  
CCTTCTTTTTAACTTGCCTCTCTGCATCTTTGGTCATC  
+HWI-EAS443:3:36:230:1574#0/1  
ababaaa\_bbbaabaabaaaaa`a\_a`aa\_XYb\_a`  
@HWI-EAS443:3:36:253:1617#0/1  
AAGAGCACTGACATTAATACGATGACCAAAGATGCAGAG  
+HWI-EAS443:3:36:253:1617#0/1  
]^X`bbba^a`\_`^baa`\_aaP]^T^V^`b]][\_]UX`\_  
@HWI-EAS443:3:36:276:1220#0/1  
AGAATCCCACCCAGGAATATTTGAGAATTCATGCCTTGAA  
+HWI-EAS443:3:36:276:1220#0/1  
aU^a\_baa`aa`[\_^XZ`\_\_\_\_a^`]aZ`\_\_]\_`X]^¥  
@HWI-EAS443:3:36:296:188#0/1  
GTCCACTTTCCTTTCTGAGTATTGGTGTGTTCTGTTTA  
+HWI-EAS443:3:36:296:188#0/1  
`abb`ab`baaabbaab`V^]\_baa`^`\_a`a`\_]Zaaa  
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CTGGGTGGGATTCTTCAAGGAAAGCCATAGCCTCTAGAAC  
+HWI-EAS443:3:36:306:1515#0/1  
ababaVaa\_V\_abaab`\_a`a^a\_aaa`b\_a`a`a`\_aab  
@HWI-EAS443:3:36:336:12#0/1  
CAAAGATGCAGAGAGAGGCAAGTTAAAAAGAAGGGCTATC  
+HWI-EAS443:3:36:336:12#0/1  
aa`bbaaba]^`SaYaZ]^`\_]aX^U^Y^ZY^PY\_Y[aRPNS  
@HWI-EAS443:3:36:348:532#0/1  
TGGATGTCAATCCGACTCTACTTTTCCCTAAAAATCCAGC  
+HWI-EAS443:3:36:348:532#0/1  
ZZ\_¥Z\_T]G[¥\_UWY^^a]Q`[[ZU`^T``[Y]¥X^`]`

@HWI-EAS443:3:36:358:1542#0/1  
GTGGGATTCTTCAAGGAAAGCCATAGCCTCTAGAACACAG  
+HWI-EAS443:3:36:358:1542#0/1  
S\_aaaZ`^abb`\_abaU[`a]Z`^`a¥`\_^X]\_W¥0^]\_  
@HWI-EAS443:3:36:365:1081#0/1  
GGGCTCCAATCATCCGACGATTTTGCTCTCATAGTGAATG  
+HWI-EAS443:3:36:365:1081#0/1  
aaababa`aaabaaa```aaaaaaaaaa\_`^`aa]aW\_\_`  
@HWI-EAS443:3:36:381:697#0/1  
GCTAATTTTAGCATGGAGCTACCCAGCTTTGGAGTGTCTG  
+HWI-EAS443:3:36:381:697#0/1  
a``\_UX^`^^aaaaXWZabaUa[^¥[^Z¥a\_a^\_G[L][  
@HWI-EAS443:3:36:431:1007#0/1  
CCCCTATGGCACCTATATGTGTATCTGTAGTCTTTGATGA  
+HWI-EAS443:3:36:431:1007#0/1  
aabbaaa\_\_aa`\_`a`a\_Z`Y``aa`]\_\_Y^`\_^¥[¥YX  
@HWI-EAS443:3:36:444:28#0/1  
ATTCCATGCTTTTGGCTGGACCATGGGCTGGCATTACCAC  
+HWI-EAS443:3:36:444:28#0/1  
abbabaa`aa`aaaa`\_`\_`\_^X^^\_Y\_]\_^][a\_]W  
@HWI-EAS443:3:36:512:1337#0/1  
CAGGAATATTTGAGAATTCATGCCTTGAAACAATGGAAGT  
+HWI-EAS443:3:36:512:1337#0/1  
abaa\_`abaaa`a`aXaabba^baaaa`abab\_\_`Y`W  
@HWI-EAS443:3:36:551:274#0/1  
CACCTGGGATGCAGATTAGAGGTTTCGTATACTTTGTTGA  
+HWI-EAS443:3:36:551:274#0/1  
a^\_aW[^\_\_`\_]Za][`R^U^[X``¥ZZ[¥[XXU¥VTV[Z  
@HWI-EAS443:3:36:553:753#0/1  
AGTCTGGGCTCCCAGTAGGGGGCAATGAAAAGAAGGCCAA  
+HWI-EAS443:3:36:553:753#0/1  
`a\_aaa`\_b`aa`aZ]``aa`a\_\_``[\_^¥\_`\_]\_`\_`^  
@HWI-EAS443:3:36:567:1133#0/1  
GTTCTGTTTACTGTGTCCATGGTGTATCCTGTTCCCTGTTTC  
+HWI-EAS443:3:36:567:1133#0/1  
\_¥S`\_YVV[[]a`VTZYaa[¥V¥LXLJR¥^Z^`\_\_\_\_\_]V^^  
@HWI-EAS443:3:36:56:1227#0/1  
GCAGACTTCAGGAATGTGAAGATTCCGTATATTGTATAAG  
+HWI-EAS443:3:36:56:1227#0/1  
aa]V^`Y`aba\_QWXTR^J^aa[[aaa[I¥^a\_SQ¥JPMY  
@HWI-EAS443:3:36:571:1035#0/1  
GGCTATGGCTTTTCTTGAAGAATCCCACCCAGGAATATTT  
+HWI-EAS443:3:36:571:1035#0/1  
aaba`bbbbbbbabaaY`a]aba`baa\_aa^Va¥JZ`\_a\_  
@HWI-EAS443:3:36:599:360#0/1  
TAATGCCAGCCCATGGTCCAGCCAAAAGCATGGAATATGA  
+HWI-EAS443:3:36:599:360#0/1  
`\_^X]\_\_]`\_¥a[O[RQUQYV`S[¥\_WF^X]HTXNT]RZ¥  
@HWI-EAS443:3:36:657:949#0/1  
TTCCCTATTGTTCTTTGCGTGACCATCTTCTTGGTCATGT

+HWI-EAS443:3:36:657:949#0/1  
^abbbb^aa\_\_`a\_a\_Zaa^a^aXa[a^`^`^\_[W`Y\_\_X  
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GATTGATGCCAGGGTCGACTTCGAGTCTGGACGGATCAAG  
+HWI-EAS443:3:36:682:1905#0/1  
T¥^aXL\_a\_\_a\_V^T\_`]¥U]\_0^WQ`I\_]WGUPRZb^YJ  
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ATCCCAGGTGTTGCGATAGCCCTTCTTTTTAACTTGCCTC  
+HWI-EAS443:3:36:687:76#0/1  
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GATGCAGAGAGAGGCAAGTTAAAAAGAAGGGCTATCGCAA  
+HWI-EAS443:3:36:724:516#0/1  
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+HWI-EAS443:3:36:730:997#0/1  
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+HWI-EAS443:3:36:764:667#0/1  
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+HWI-EAS443:3:36:800:925#0/1  
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CAGATCTTCATGATCTCAGAGAACTTCTTTCTTGATCC  
+HWI-EAS443:3:36:817:222#0/1  
abbaabbabbbbaaabbbaaaaaaaaa`aa`a``aa`aZ^  
@HWI-EAS443:3:36:831:729#0/1  
GTTGAGAATAGAACGATTCTTCTTGGGAATCCAGGAATGT  
+HWI-EAS443:3:36:831:729#0/1  
^\_`aaa¥bbba`]`aV]aaaab\_\_`aa]\_`a\_`aa\_``aV  
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TGGGAATCCAGGAATGTGTAGTTGCAACGGCATCATATTC  
+HWI-EAS443:3:36:890:1489#0/1  
`aaa`babb`b`\_`b\_`Wa`¥`aa`^UYR¥`\_[a\_¥^\_\_  
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CAAGAATTCCCCTTTGGCTTGTGTTGAGAATAGAACGATT  
+HWI-EAS443:3:36:984:1747#0/1  
aabaabaaaaZ`aaa^^aa¥^\_]\_]^W\_`^\_Y\_\_\_\_\_`Z^

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^Z`UP\_`a\_¥a^a^aa[a\_`a\_\_^aX]L\_XP\_^[[WX^]\_  
@HWI-EAS443:3:37:1023:1162#0/1  
GGCCCGGATTGATGCCAGGGTCGACTTCGAGTCTGGACGG  
+HWI-EAS443:3:37:1023:1162#0/1  
a`[V]``aaa``^a`a`〕`^S`[[[\_a]WVE00a^〕^Y``X  
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GTAGGGGGCAATGAAAAGAAGCCAAACTGGCAAATGTTG  
+HWI-EAS443:3:37:1063:2030#0/1  
`aaaaa\_a\_S\_a]\_aa`a\_\_]\_a\_`[\_^\_W]aa]\_\_\_W]]  
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+HWI-EAS443:3:37:1086:300#0/1  
a]SV]\_[LZ`¥[ZQ[a\_¥¥Z^`\_]VYZQRQRVNXYYSYP  
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+HWI-EAS443:3:37:1088:231#0/1  
abb\_`aaaabaaaV[baaaaaaaaa\_`[X¥¥`\_`\_aa^W  
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+HWI-EAS443:3:37:1089:408#0/1  
aabbaa¥]]aa\_]Zaaaa[\_aaaa\_b^ZOKa[`SU`\_]\_Z`  
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+HWI-EAS443:3:37:1102:415#0/1  
aTa\_`\_aaaa\_a`\_`\_aVaX`\_`\_a\_U\_XW\_\_\_¥\_¥]\_X¥  
@HWI-EAS443:3:37:1115:1789#0/1  
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+HWI-EAS443:3:37:1115:1789#0/1  
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+HWI-EAS443:3:37:1119:417#0/1  
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@HWI-EAS443:3:37:1120:1493#0/1  
GGTGTGTTCTGTTTACTGTGTCCATGGTGTATCCTGTTCC  
+HWI-EAS443:3:37:1120:1493#0/1  
ab]`^bU`bba]\_`aaaaZaabaaaa^aGL]`[aa\_\_a^  
@HWI-EAS443:3:37:1186:154#0/1  
CAACGGCCCAGATGGCTCTTCAATTGTTTCATCAAAGACTA  
+HWI-EAS443:3:37:1186:154#0/1  
a¥`Vba^a`[ba\_aRH]R\_\_a`\_aUa^\_[MMDPa]NU][  
@HWI-EAS443:3:37:1193:1895#0/1  
TGGTCTCCATCTGATACTAATAGCCCTACCTTTGATTGG  
+HWI-EAS443:3:37:1193:1895#0/1  
^¥ZDT`b]`aa¥]a`\_]\_`aba`Y]\_Q¥\_Gb]``\_P\_a\_X  
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+HWI-EAS443:3:37:1203:1912#0/1  
abaabbXaaa`aaaa`b`\_ab^aaa\_aT¥\_ba`a`b`\_  
@HWI-EAS443:3:37:1236:189#0/1  
GACGGATCAAGAAAGAAGAGTTCTCTGAGATCATGAAGAT  
+HWI-EAS443:3:37:1236:189#0/1  
aa\_aaaa]aaaaa`aa`^^^aa`\_a^TIX\_`a^`\_`^  
@HWI-EAS443:3:37:1293:1373#0/1  
CAGTGATTGTGAAAGAAATCTCTGTGTCTTGTGAATTAGT  
+HWI-EAS443:3:37:1293:1373#0/1  
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+HWI-EAS443:3:37:129:428#0/1  
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+HWI-EAS443:3:37:1303:1639#0/1  
aaa]abbaba`R[a\_a\_aa`^^`aa\_aaU]^\_ba`Za`\_  
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+HWI-EAS443:3:37:134:535#0/1  
aaab\_ba^bbbb`\_b\_V`baa\_\_aaa\_aa\_Z^Z]YRY¥`  
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GGTGTGTTCTGTTTACTGTGTCCATGGTGTATCCTGTTCC  
+HWI-EAS443:3:37:1352:347#0/1  
]aHa^\_¥b\_a`¥a^aaaaXaZ^]aabaYbR\_`a][`ZT^T  
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GGGATTCTTCAAGGAAAGCCATAGCCTCTAGAACACAGTC  
+HWI-EAS443:3:37:1355:1671#0/1  
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+HWI-EAS443:3:37:1366:532#0/1  
abab^ZbX¥`bbaabaabbaabaa]aa¥aU\_RM`aa`aa\_  
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@HWI-EAS443:3:37:1418:796#0/1  
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+HWI-EAS443:3:37:1418:796#0/1  
aa\_V\_\_^bbaaa\_aaaaaa\_aab`\_\_Z`aUa``]`a]a\_\_  
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ATGCCAGGGTTCGACTTCGAGTCTGGACGGATCAAGAAAGA  
+HWI-EAS443:3:37:1440:450#0/1  
aaZU]aaaaYaa\_\_\_¥^`V^Ra`¥a\_Z`aM]QO^a[]^\_^  
@HWI-EAS443:3:37:1445:460#0/1  
AAAAGAAATACACCAAGACAATATACTGGTGGGATGGGCT  
+HWI-EAS443:3:37:1445:460#0/1  
\_b`]aaa]b^aaaaa\_\_`\_`ab¥aaa``aXaab^]TDT

@HWI-EAS443:3:37:1455:1231#0/1  
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+HWI-EAS443:3:37:1455:1231#0/1  
aabaaaa`ab\_\_^^\_aa\_[]\_]a`a`X[W\_\_\_`a`UT¥Y  
@HWI-EAS443:3:37:1482:386#0/1  
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+HWI-EAS443:3:37:1482:386#0/1  
aa`^\_aaaa`\_`^a\_a[`ZX```]\_a]YaX^^`Z^\_]\_^]  
@HWI-EAS443:3:37:1491:395#0/1  
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+HWI-EAS443:3:37:1491:395#0/1  
aa^`a``aaVaa^SS[SYFYTVVPY`ZVGL]¥]`TWSQRQ  
@HWI-EAS443:3:37:1504:750#0/1  
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+HWI-EAS443:3:37:1504:750#0/1  
Y\_bbb¥\_aab`¥S`a`\_¥Za]G[`aaa\_`PWZ\_]``Ua^`  
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+HWI-EAS443:3:37:1535:570#0/1  
\_`H\_a\_aY¥R[[aT\_^^aY[^`aa\_Z[aNGXa`]Z^a\_X  
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+HWI-EAS443:3:37:1610:1803#0/1  
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+HWI-EAS443:3:37:1620:253#0/1  
a^S[aX`]`[Y]YX^]RYW^]R]\_`\_]`R]X\_]Z]^WR  
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GAGGCTATGGCTTTCCTTGAAGAATCCCACCCAGGAATAT  
+HWI-EAS443:3:37:1633:559#0/1  
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+HWI-EAS443:3:37:1731:379#0/1  
^baVba]aTa¥`^bY`UNZWZaa\_a\_\_\_\_\_RY\_a`a`\_`^V  
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+HWI-EAS443:3:37:1746:332#0/1  
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+HWI-EAS443:3:37:208:1953#0/1  
a]aa^^Z`aa`aa^ZXa^`a`\_a\_]P]\_[U]`[aTa]^¥¥  
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+HWI-EAS443:3:37:217:1304#0/1  
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AAAATTTCTCGAATAGATTGCAGCACTTCTGGTACATCTG  
+HWI-EAS443:3:37:241:1106#0/1  
`X]Qaa\_a\_a`\_\_`¥Y]¥\_[[X`a\_]`^X]XX[^`]\_ZZ  
@HWI-EAS443:3:37:253:1715#0/1  
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+HWI-EAS443:3:37:253:1715#0/1  
a^a¥a[ab\_^[]ND[SRZ```[]XN\_ZV^S`\_VHV\_¥NT^  
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a`baba^abbRaaaaa\_\_`a\_\_[a\_a[^`^a\_Y\_a\_aY\_R  
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+HWI-EAS443:3:37:282:1707#0/1  
^S\_\_UZQS^]SU^aZX¥T\_Waa`Ua[ZVZU[`V[^`\_`\_`T  
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+HWI-EAS443:3:37:308:995#0/1  
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+HWI-EAS443:3:37:310:35#0/1  
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+HWI-EAS443:3:37:368:1396#0/1  
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+HWI-EAS443:3:37:390:192#0/1  
abbaaab`baaaa`S`\_aaa\_a```ZaVM^[YRYa]Y^  
@HWI-EAS443:3:37:393:1784#0/1  
GTCCTCCATCTGATACTAATAGCCCTACCTTTGATTGGGT  
+HWI-EAS443:3:37:393:1784#0/1  
\_H\_^ZW^aa`\_bY¥a^TXZ`\_`HbU[\_YLRLLTZaV[JUNK  
@HWI-EAS443:3:37:408:672#0/1  
CACTAACTTGCAGGTCCTGTAGAATCTGTCCACTCCTGCT  
+HWI-EAS443:3:37:408:672#0/1  
`\_`aa^aaaaaaaa\_aaaa`a`X`aaa[W\_]\_^`a`]`]  
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CGCAACACCTGGGATGCAGATTAGAGGTTTCGTATACTTT  
+HWI-EAS443:3:37:410:1838#0/1  
`b\_[bb\_bb`\_`aabaaaa]aabbYa`HH¥Sb¥Zb\_aa`^\_  
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GATTCATTTACTCCAGACACTCCAAAGCTGGGTAGCTCCA  
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aaaa^X`baaaaaaaaaaaaa`aaa\_SZa]XZ\_X¥[``\_a`\_`



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+HWI-EAS443:3:37:413:1397#0/1  
ab``aa`a`a\_a`aa``Zaa^aaa``¥UX¥QVW`\_^\_\_  
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+HWI-EAS443:3:37:413:395#0/1  
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GAAAAGGGAAAAGTGGACGACAAACACAGAGACTGGTGAC  
+HWI-EAS443:3:37:419:348#0/1  
a`\_]`\_a`aa]`a¥`\_a`\_]`^`a`\_`a^^SUS¥W¥WP^¥¥S  
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AACAGATCTTCATGATCTCAGAGAACTCTTCTTTCTTGAT  
+HWI-EAS443:3:37:430:1292#0/1  
aaa`\_\_a^a\_]¥V¥`[[VWY¥¥`\_`[VTV^\_RS]\_]`^a]  
@HWI-EAS443:3:37:482:1418#0/1  
AGCTGATTCATTTACTCCAGACACTCCAAAGCTGGGTAGC  
+HWI-EAS443:3:37:482:1418#0/1  
\_baQ`\_LX\_baaabaXaaa`\_ab`\_a`\_]NG¥U]YVP[ZS  
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+HWI-EAS443:3:37:505:744#0/1  
`\_\_`\_^^YO¥Y\_¥\_T¥W]WYW[RW]Z]ZUZ]V]ZYWSUR  
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+HWI-EAS443:3:37:527:185#0/1  
aV\_Ya`aaa^\_UZ`]¥Z`]¥^^[U¥VVT¥SQQJNYVPQM  
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+HWI-EAS443:3:37:539:1223#0/1  
a`Z`^\_Y]``^aa\_R]NQ`[UTS\_XRZYUG`¥S¥YVRSYY  
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+HWI-EAS443:3:37:547:626#0/1  
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@HWI-EAS443:3:37:586:480#0/1  
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+HWI-EAS443:3:37:586:480#0/1  
Zaa^^ba^[^`[^`^`ab]O`\_ab\_Z\_\_XUWaba^WR]aa  
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+HWI-EAS443:3:37:625:1536#0/1  
¥^YSY[\_bb^a]Z]R[a¥[^a`^a\_[U\_VFJYXR[]T]a¥  
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AGTGTCTGGAGTAAATGAATCAGCTGACATGAGTATTGGA  
+HWI-EAS443:3:37:652:551#0/1  
abaa\_bbaU`]Xbaaaaa`aa`\_a\_a`WZ\_\_\_LN¥a¥a^  
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+HWI-EAS443:3:37:653:806#0/1  
`aW^¥bbTZa\_[aa^`a^X¥HXX]\_YWOKO\_Y\_Z^S^]^  
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TCCTCTTTGTTTCATTGATTCCATTACATCCTTTAAGAAAT  
+HWI-EAS443:3:37:680:1940#0/1  
\_b\_Va\_aa`^^`¥Z\_a\_\_¥ba^\_bbaYaV[ `[aa\_\_I\_\_  
@HWI-EAS443:3:37:762:113#0/1  
TGCGCTGGAATTTTTAGGAAAAGTAGAGTCGGATTGACAT  
+HWI-EAS443:3:37:762:113#0/1  
[¥\_ZZ¥aa`^^`ba^`^`Y^aWaaa]OIZ^JS[YS^^T  
@HWI-EAS443:3:37:795:686#0/1  
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+HWI-EAS443:3:37:795:686#0/1  
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+HWI-EAS443:3:37:808:1360#0/1  
\_`[H[ba`b`Y^^b\_[a]b\_aaa]\_aa\_00^Paa¥a^[J]  
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+HWI-EAS443:3:37:82:1104#0/1  
a`a`a\_aa\_aa\_a¥P^a^X^`\_]U`Z`[aUPTZLVO[TZX  
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+HWI-EAS443:3:37:842:1971#0/1  
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GGCCCCGATTGATGCCAGGGTCGACTTCGAGTCTGGACGG  
+HWI-EAS443:3:37:842:586#0/1  
aZb]]^X`ba`aaaa¥\_a]K\_]W\_]`aMWT\_X`ZZZ^\_  
@HWI-EAS443:3:37:853:910#0/1  
GGTGGGATGGGCTCCAATCATCCGACGATTTTGCTCTCAT  
+HWI-EAS443:3:37:853:910#0/1  
`S]XT`UU\_TR`NX[OW^[`a[WOU]]SFP[PZ`\_[PZ[R  
@HWI-EAS443:3:37:927:2020#0/1  
TCATGGTTTGGTGCATTCACTATGAGAGCAAATCGTCGG  
+HWI-EAS443:3:37:927:2020#0/1  
abab` `baaa¥abbbaababa`bbaa`[KH`bab]^a]X  
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GCTCCTAGCTAAAGTTTCAACAAAGTATACGAAACCTCTA  
+HWI-EAS443:3:38:1052:63#0/1  
aa`a\_a`a`aa\_\_b^`\_`\_]^^`\_]`^`WXUX^RPXX^X  
@HWI-EAS443:3:38:1065:77#0/1  
GCGAAAAGCTTGAACAGTCTGGGCTCCCAGTAGGGGGCAA  
+HWI-EAS443:3:38:1065:77#0/1  
aM[I\_SS¥`\_XaXaU¥R^\_SYRaSY¥^MZUKNSV¥WRNVG  
@HWI-EAS443:3:38:1078:687#0/1  
GGTCGACTTCGAGTCTGGACGGATCAAGAAAGAAGAGTTC  
+HWI-EAS443:3:38:1078:687#0/1  
W^Ub[G^¥\_` `Raabb`[ `aaa\_aa\_N\_WaWZZa[ `b¥^L

@HWI-EAS443:3:38:1138:897#0/1  
GTCCCCAGTGATTGTGAAAGAAATCTCTGTGTCTTGTGAA  
+HWI-EAS443:3:38:1138:897#0/1  
a¥aaa`bWaa`aaWb`ba`aaaa]aa¥`X]SV\_¥YX^[X  
@HWI-EAS443:3:38:1144:706#0/1  
GATTGAGTATCGAGACTCCCAAGACCGTACTTAGCATGTT  
+HWI-EAS443:3:38:1144:706#0/1  
aaaaab¥^a``]W¥``\_``ZZ]`\_¥a\_¥^UVV]YX]^]YW  
@HWI-EAS443:3:38:1184:261#0/1  
GATTGATGCCAGGGTCGACTTCGAGTCTGGACGGATCAAG  
+HWI-EAS443:3:38:1184:261#0/1  
`¥^`\_Xaa\_^a¥Yaabb]]`^]`aaY`aa\_NUU[^UZ¥¥N  
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CACGCAAAGAACAATAGGGAAGAAAAACAAAGACTGAAT  
+HWI-EAS443:3:38:118:878#0/1  
aabb``Y``^`a`aaaa\_aaa`a\_J`a`\_\_aR`aa\_``  
@HWI-EAS443:3:38:1200:2025#0/1  
CTGACATTAATACGATGACCAAAGATGCAGAGAGAGGCA  
+HWI-EAS443:3:38:1200:2025#0/1  
\_Uba^¥^`b[PWZI\_[V¥^\_\_Raba`[`a¥^TVYa``VXR  
@HWI-EAS443:3:38:1219:2045#0/1  
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+HWI-EAS443:3:38:1219:2045#0/1  
`aa\_aaaaab\_]a`a]aa[]a]aaa\_\_\_\_\_]ZZX\_^¥]]^Z  
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AAATGAATCAGCTGACATGAGTATTGGAGTAACAGTGATA  
+HWI-EAS443:3:38:1245:655#0/1  
^`b`¥]T\_\_```[`WV^]a`a[aa\_a\_aaSS[W]^0\_Z^P  
@HWI-EAS443:3:38:1300:327#0/1  
CCAGTCTGTGTTTGTCTGCCACTTTCCCTTTTCTGAGT  
+HWI-EAS443:3:38:1300:327#0/1  
\_`a`Y^`bbb¥b\_bbWWWYTX[OZ]a\_¥]YU\_a\_W¥[PYU  
@HWI-EAS443:3:38:1323:128#0/1  
CAATTGAAGAGCCATCTGGCCGTTGCAGGTCCAAGGTCA  
+HWI-EAS443:3:38:1323:128#0/1  
aababbaa¥\_b\_aaaa\_b\_a`aaZ[`\_]a\_TSST[]VPWS  
@HWI-EAS443:3:38:1323:1442#0/1  
TGCCGTTGCAACTACACATTCTGGATTCCCAAGAGGAAT  
+HWI-EAS443:3:38:1323:1442#0/1  
abab`^baa`b\_aaab`a`Y^a``\_a`\_`PR¥Y\_[`YZaY  
@HWI-EAS443:3:38:1341:1584#0/1  
GACTAATTCACAAGACACAGAGATTTCTTTCACAATCACT  
+HWI-EAS443:3:38:1341:1584#0/1  
a`[`aaab`a]``\_\_aa\_a[\_a\_``\_a`a^0^X\_U^a\_^W  
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ACACAGTAAACAGAACACACCAATACTCAGAAAAGGGAAA  
+HWI-EAS443:3:38:1342:491#0/1  
\_Xaba`aaaaaaa\_a^`aa^`aa`aaaaa]\_[[¥aa^`Z  
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+HWI-EAS443:3:38:1361:464#0/1  
a`b```a`baa`Y\_a^][a`X¥¥b`bSDR```]\_¥VH  
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+HWI-EAS443:3:38:1364:755#0/1  
`a`bababba`\_aaab``\_a]a``a`aNT¥ZVSY[Y`0  
@HWI-EAS443:3:38:136:1687#0/1  
GAACAACATGATAACAATGACCTTGGACCTGCAACGGCC  
+HWI-EAS443:3:38:136:1687#0/1  
a\_bbbbbbaabaaaababaWaa`aaa]ab```a]aa[`a^  
@HWI-EAS443:3:38:1383:383#0/1  
GCATGGAGCTACCCAGCTTTGGAGTGTCTGGAGTAAATGA  
+HWI-EAS443:3:38:1383:383#0/1  
aaQXa^P[a`VVRVY`Ua\_`Z^Z^V^[W[XVX^RU][PRT  
@HWI-EAS443:3:38:1393:1302#0/1  
AATTGAAGAGCCATCTGGGCCGTTGCAGGTCCAAGGTCAT  
+HWI-EAS443:3:38:1393:1302#0/1  
a`b`a`baaaa`a^a\_a\_a^\_\_Y\_]YZW\_YZXYWY¥YU]X  
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+HWI-EAS443:3:38:1420:550#0/1  
aaababaaaaa`a`aa\_`Y\_a\_¥\_\_`S^]XU^Y]X]XUY  
@HWI-EAS443:3:38:1475:1548#0/1  
GCCATCTGGGCCGTTGCAGGTCCAAGGTCATTGTTTATCA  
+HWI-EAS443:3:38:1475:1548#0/1  
aaaa`aWUDRXWYSV`UTXROR\_\_]`\_H\_WSW¥QVSSQOJ  
@HWI-EAS443:3:38:1479:1314#0/1  
CAGTGATTGTGAAAGAAATCTCTGTGTCTTGTGAATTAGT  
+HWI-EAS443:3:38:1479:1314#0/1  
\_`a¥b`ab^^b^]Z\_`b^^^aaaaa^a`bYX]]XNZ\_]\_Y  
@HWI-EAS443:3:38:1524:1106#0/1  
TAGGGCTATTAGTATCAGATGGAGGACCAAACCTATACAA  
+HWI-EAS443:3:38:1524:1106#0/1  
]^`b`\_\_`a`a\_UW`a`[ES\_a¥aa\_aW]ZRQV]]^RVYL  
@HWI-EAS443:3:38:1530:215#0/1  
AAAAGAAATACACCAAGACAATATACTGGTGGGATGGGCT  
+HWI-EAS443:3:38:1530:215#0/1  
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@HWI-EAS443:3:38:1557:1080#0/1  
GGGATTACAAAGTCTTCCCCGATAATCATCATCCATTAGC  
+HWI-EAS443:3:38:1557:1080#0/1  
^a`\_bbaaabW`\_\_ba¥aa\_b]a`^aa^a¥Z`Y^X^¥X\_H  
@HWI-EAS443:3:38:1566:944#0/1  
AAATCTATTAGCCTTCTGACTCATTAGCTGTTAGGCCAT  
+HWI-EAS443:3:38:1566:944#0/1  
aabbababbba`\_aba\_aaa`aa`aaaaa^]Z][[^WVVV  
@HWI-EAS443:3:38:156:494#0/1  
GACGGATCAAGAAAGAAGAGTTCTCTGAGATCATGAAGAT  
+HWI-EAS443:3:38:156:494#0/1  
aaaaaa`aaabaaaaa^`aa]aaaaa`\_]^^`\_aa\_\_a`^

@HWI-EAS443:3:38:1575:526#0/1  
CCTTTGTCAGTCATAAAGAGATTGATTCTGTAAACAATGC  
+HWI-EAS443:3:38:1575:526#0/1  
``babbbaaab]\_aaaaab`a\_aab\_aa¥aZU^][P[`^^Q  
@HWI-EAS443:3:38:1605:308#0/1  
GATTGATGCCAGGGTCGACTTCGAGTCTGGACGGATCAAG  
+HWI-EAS443:3:38:1605:308#0/1  
a`¥ZV]¥TP\_XZPYV]¥V[Z¥¥Y^W][a]PVV[PLPNUT  
@HWI-EAS443:3:38:1609:1862#0/1  
GTCACGCAAAGAACAATAGGGAAGAAAAACAAAGACTGA  
+HWI-EAS443:3:38:1609:1862#0/1  
a`a`Z``\_aa\_¥\_^a\_]\_aTYV`a\_¥]^\_[[[YV]WPU][  
@HWI-EAS443:3:38:1641:219#0/1  
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+HWI-EAS443:3:38:1641:219#0/1  
`W^aaa^`aaaaY]\_\_\_\_^\_`aaa`\_\_\_\_XaXWW]VWV^ZYY  
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+HWI-EAS443:3:38:1641:353#0/1  
abbbbaaaaa`\_\_a\_aaa`a```\_aaaaWZ\_\_^\_\_`Z\_Z  
@HWI-EAS443:3:38:1657:925#0/1  
GGCCTCTTCTAATAGATGGCACAGCATCACTGAGTCCTGG  
+HWI-EAS443:3:38:1657:925#0/1  
¥bb`^a`^`\_aaa\_^Ya`\_Yaa^\_Za`¥]VN\_NQQYPW]P  
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+HWI-EAS443:3:38:165:234#0/1  
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@HWI-EAS443:3:38:1682:320#0/1  
TGAGAATAGAACGATTCTCTTGGGAATCCAGGAATGTGT  
+HWI-EAS443:3:38:1682:320#0/1  
a`X¥]aaaa\_\_R[QU`[V`]]Y\_\_]^\_¥^XXZZX]Z^Z^U  
@HWI-EAS443:3:38:1751:1701#0/1  
AGGAATCGTTCTATTCTCAACACAAGCCAAAGGGGAATTC  
+HWI-EAS443:3:38:1751:1701#0/1  
aaa`aaaa\_aY^`¥a```\_`\_^\_a\_\_`X`VU]WXXZZXR  
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CAGGAATATTTGAGAATTCATGCCTTGAAACAATGGAAGT  
+HWI-EAS443:3:38:1779:345#0/1  
a]babbb^\_baaa^`babaaba```ab\_b\_Ya]`a\_a\_\_H  
@HWI-EAS443:3:38:223:939#0/1  
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+HWI-EAS443:3:38:223:939#0/1  
SZ\_bb`^`b]bbZ\_ab\_^\_¥aba]``a`a]S^aa`\_`NO]  
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TGCCATGCTCAGGATGTTTCTGAACCACTCGGGTTGATTT  
+HWI-EAS443:3:38:261:1789#0/1  
a`bbbaaaaba`\_a`a\_a`baa`a``aa\_]\_\_XMZ]`¥\_]`  
@HWI-EAS443:3:38:310:1562#0/1  
CACCAATACTCAGAAAAGGGAAAGTGGACGACAAACACAG

+HWI-EAS443:3:38:310:1562#0/1  
aa\_baa\_bbaa`a`aa`^`^`\_a^W^^`bY¥¥^a`X¥\_\_\_\_  
@HWI-EAS443:3:38:375:1541#0/1  
TGTTGATTCCTACTAAGTTCAGGTCCTGTAGAATCTGTC  
+HWI-EAS443:3:38:375:1541#0/1  
aaU`\_b\_abaaa\_aaba\_\_^ba\_]Ua`^`XXX[^\_\_XXUX  
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+HWI-EAS443:3:38:438:1005#0/1  
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@HWI-EAS443:3:38:455:964#0/1  
GTTCTGTTTACTGTGTCCATGGTGTATCCTGTTCTGTTTC  
+HWI-EAS443:3:38:455:964#0/1  
a`aV`]VR\_a\_\_a\_]\_LNVU\_a^P¥W\_ZT[WXXUYX\_]¥UU  
@HWI-EAS443:3:38:483:45#0/1  
CCCTTTGGCTTGTGTTGAGAATAGAACGATTCCTCTTGGG  
+HWI-EAS443:3:38:483:45#0/1  
abbbbabbbba\_a]aa\_a`] [\_`\_aa`\_RY\_\_Y\_^^^\_^^\_  
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GGTCTTGGGAGTCTCGATACTGAATCTTGGACAAAAGAAA  
+HWI-EAS443:3:38:490:817#0/1  
a`\_aaaa`\_`\_]\_a`\_S\_\_aaa^^`a\_\_Z]\_¥\_`\_`^a^  
@HWI-EAS443:3:38:503:1069#0/1  
TGGGCTGGCATTACCACAGCATTGTTTACAGAATCAATCT  
+HWI-EAS443:3:38:503:1069#0/1  
^W`aa``aaaaab^b¥abaUXbaa]\_]\_aa\_`a^\_a¥]``  
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TAGGGGGCAATGAAAAGAAGGCCAAACTGGCAAATGTTGT  
+HWI-EAS443:3:38:51:1358#0/1  
ababaaaaaaaaaaaaabaaa`aaaaaa`aa\_¥`````Z``^  
@HWI-EAS443:3:38:555:947#0/1  
GAAAAGGGAAAGTGGACGACAAACACAGAGACTGGTGCAC  
+HWI-EAS443:3:38:555:947#0/1  
aTZUZ¥aa` [ ]Z\_\_aa`\_`aaa\_`ZI¥R^W[UUVFWZ]K  
@HWI-EAS443:3:38:589:1807#0/1  
CATCCTTTAAGAAATCTATTAGCCTTCCTGACTCATTAGC  
+HWI-EAS443:3:38:589:1807#0/1  
abaaaaaabba`aaaa`aaa`Ybaa`aa`^^X^aaa\_`aZ  
@HWI-EAS443:3:38:593:230#0/1  
GTGTTCTGTTTACTGTGTCCATGGTGTATCCTGTTCTGTTTC  
+HWI-EAS443:3:38:593:230#0/1  
a]a`aaaa`aa`^aa]a\_a\_[ ]a]Y\_Y[[VV\_^^]^^\_\_]  
@HWI-EAS443:3:38:614:1722#0/1  
CAGGAATATTTGAGAATTCATGCCTTGAAACAATGGAAGT  
+HWI-EAS443:3:38:614:1722#0/1  
a`a¥abaaaaa``aa`\_a\_a\_\_\_\_\_`\_Ub]\_^Z^\_ZV  
@HWI-EAS443:3:38:615:348#0/1  
ATGACCAAGAAGATGGTCACGCAAAGAACAATAGGGAAGA  
+HWI-EAS443:3:38:615:348#0/1  
a\_`babbaaaa`\_]``Wa`\_a` [ ]`\_`^]\_^\_\_¥]`\_^

@HWI-EAS443:3:38:668:1280#0/1  
ATTCGATCTAAAGACTTCTATGGTGTGGCCAATGCAGTT  
+HWI-EAS443:3:38:668:1280#0/1  
a`\_aaa`aa\_\_\_\_\_Z`\_\_`\_\_`]¥WW^WZ]YR]^Z][ZZU^  
@HWI-EAS443:3:38:670:533#0/1  
CACCTATATGTGTATCTGTAGTCTTTGATGAACAATTGAA  
+HWI-EAS443:3:38:670:533#0/1  
abbbbababb`b\_babbb¥^baaabaaaa`\_Xaaaaaa`  
@HWI-EAS443:3:38:714:1004#0/1  
GAGTAAATGAATCAGCTGACATGAGTATTGGAGTAACAGT  
+HWI-EAS443:3:38:714:1004#0/1  
a`a]bb\_babaaa`ab````a```a¥]\_a\_^]][]`\_\_a0  
@HWI-EAS443:3:38:739:137#0/1  
CTTGGGAATCCAGGAATGTGTAGTTGCAACGGCATCATAT  
+HWI-EAS443:3:38:739:137#0/1  
a\_Q\_ab¥Taaaaba`\_`aZa¥a`\_`aa\_][]^a¥a\_aY  
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AGAATCCCACCCAGGAATATTTGAGAATTCATGCCTTGAA  
+HWI-EAS443:3:38:764:440#0/1  
^aX`^`aab^`WaZUZURW¥```a`\_OYYULQOZ¥XSS`X  
@HWI-EAS443:3:38:785:1068#0/1  
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+HWI-EAS443:3:38:785:1068#0/1  
abaa^]baaaaa`\_]`Ua\_[\_a^aa`\_\_`¥Z^^aZ\_\_]\_Z  
@HWI-EAS443:3:38:817:619#0/1  
GCATTTGCGAAAAGCTTGAACAGTCTGGGCTCCCAGTAGG  
+HWI-EAS443:3:38:817:619#0/1  
aVUX¥aaZX^¥PVS]^a[¥`[XRN\_TLRL[N[\_XNRQWYQ  
@HWI-EAS443:3:38:86:567#0/1  
TGGCACCCATAATGTTCTCAAACAAAATGGCAAGACTAGG  
+HWI-EAS443:3:38:86:567#0/1  
aa^bbbaa^aaaab\_aabaaaaaaWaaa`\_]U^]\_`\_`[  
@HWI-EAS443:3:38:891:1077#0/1  
GTACATGTTGAGAGTAAAAGAATGAAGATTGGAACACAA  
+HWI-EAS443:3:38:891:1077#0/1  
aabbbaa\_aa\_Z`\_a]a`^aa]`aa^^`a^¥T`^a¥aVa^  
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GTCCCCAGTGATTGTGAAAGAAATCTCTGTGTCTTGTGAA  
+HWI-EAS443:3:38:898:1058#0/1  
aaaabbaa`^`^aaa\_aaa`aaaaaaaaaa]T]^a`XW^YY  
@HWI-EAS443:3:38:910:723#0/1  
CATACCCACTTGGTTCATTATCCTCAGGTAGTGGTCCATC  
+HWI-EAS443:3:38:910:723#0/1  
aabbabbaabbaa¥aaababaaaa`aaa¥`¥Y\_a¥¥[\_`W  
@HWI-EAS443:3:38:913:916#0/1  
GAGATAACAACCCACTTTCAAAGAAAAAGGAGAGTAAGAG  
+HWI-EAS443:3:38:913:916#0/1  
\_Y\_\_a\_Y^ZR[]^Z]¥`aZXN\_Y\_\_[Z`\_[]X\_Z[W[\_Y  
@HWI-EAS443:3:38:933:1617#0/1  
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@HWI-EAS443:3:39:1194:179#0/1  
CATGAGGGAATACAAGCAGGAGTGGACAGATTCTACAGGA  
+HWI-EAS443:3:39:1194:179#0/1  
a`¥`baZ¥W]`a`¥`baa\_\_Zb[a¥XSZ\_^RWR]WNLVVT  
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GCTCCAATCATCCGACGATTTTGCTCTCATAGTGAATGCA  
+HWI-EAS443:3:39:1204:1266#0/1  
`aa\_aaaaaaaX]b`U`^`^a]^\_aV`\_\_XX`\_\_aVPY  
@HWI-EAS443:3:39:1219:1064#0/1  
GAACATTATGGGTGCCATGCTCAGGATGTTTCTGAACCAC  
+HWI-EAS443:3:39:1219:1064#0/1  
aaba¥X``abbaG`a`]aa\_^Z^[\_^a`aaQ\_T¥a\_\_\_V  
@HWI-EAS443:3:39:1224:1604#0/1  
GAGACAACATGACCAAGAAGATGGTCACGCAAAGAACAAT  
+HWI-EAS443:3:39:1224:1604#0/1  
Sabb\_bbb`a`abaaa`a`a]`Xaaaa^\_Z\_a]aZaaW  
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TGGTGCTTATGGCATTGCGCTGGAATTTTAGGAAAAG  
+HWI-EAS443:3:39:1230:981#0/1  
]a^\_¥^^¥SZ\_SQ¥WV[[JTW[Z`X`Z]`VW]OVSZV  
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+HWI-EAS443:3:39:1234:274#0/1  
`a]Y`Yba]\_^U``[aaa^R`a`¥a\_a\_aa^`a`a\_a\_W  
@HWI-EAS443:3:39:1236:1268#0/1  
GTCCTCCATCTGATACTAATAGCCCTACCTTTGATTGGGT  
+HWI-EAS443:3:39:1236:1268#0/1  
a`aaaa`baa`a`a`aaa\_`a`Z`^`\_`\_\_\_\_^¥¥^X  
@HWI-EAS443:3:39:1239:577#0/1  
GATTCTTCAAGGAAAGCCATAGCCTCTAGAACACAGTCTG  
+HWI-EAS443:3:39:1239:577#0/1  
a^`a\_a`aa`aa`\_\_\_\_`V^^^\_¥R\_^X[]^U]]Y]Y]^X  
@HWI-EAS443:3:39:1258:31#0/1  
TGCCGTTGCAACTACACATTCCTGGATTCCCAAGAGGAAT  
+HWI-EAS443:3:39:1258:31#0/1  
`b`^ba`a^^`\_`\_`V\_YNYTU^TQV[]]UUZZ¥TTX  
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GGGCAATGAAAAGAAGCCAAACTGGCAAATGTTGTGAGA  
+HWI-EAS443:3:39:1268:1809#0/1  
a`aaabbbababaaaa\_a^`\_a\_a`a[aa`]TNZa]\_^VN  
@HWI-EAS443:3:39:133:677#0/1  
CTCCAATCATCCGACGATTTTGCTCTCATAGTGAATGCAC  
+HWI-EAS443:3:39:133:677#0/1  
aaabaaaaaaa^¥`a^^`\_\_aa`a^^`^`^X^`X^^^T  
@HWI-EAS443:3:39:136:1383#0/1  
CTCATGGTTTGGTGCATTCACTATGAGAGCAAAATCGTCG  
+HWI-EAS443:3:39:136:1383#0/1  
aaa]`aa\_aa[Uaa`aa`a`\_¥0][[]`][\_a^\_\_W^`  
@HWI-EAS443:3:39:1396:159#0/1  
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+HWI-EAS443:3:39:1396:159#0/1  
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aaa`\_b`\_b`aa`aZV[^Waa¥`a]]][[\_a[Z¥`\_]X^UG  
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abb`a\_bbb\_U¥babbb\_a^Y`\_`^[\_`\_`[\_`bYX^b\_\_a`X  
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+HWI-EAS443:3:39:259:1862#0/1  
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a^0\_¥Q\_]`a¥S\_ba`[XRX\_Y\_]`ab^ZZX\_^S[aa`Y  
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Z]Z^F[bWWa¥\_\_\_\_[YU]^¥VW^`\_]a^U[¥X]¥X]]P  
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¥T\_aa\_`S`¥aa]X[\_a\_a\_a[X[0\_a\_]WKK][Y]`Y¥S  
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+HWI-EAS443:3:39:903:341#0/1  
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aa^[\_a`[aa[`bab¥T[aaaa`aaYaa^[^\_\_\_\_[]Y[\_Y  
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+HWI-EAS443:3:3:1022:571#0/1  
aaa\_\_a`\_\_`a]aZ^^W\_\_^]]^a]]]XaXX^Z¥^]VYY\_  
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+HWI-EAS443:3:3:1586:1509#0/1  
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a^a`aaaa`a`S\_aa\_^\_¥`\_[¥Z`^VZ]¥¥U¥\_^\_  
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+HWI-EAS443:3:3:1673:1094#0/1  
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+HWI-EAS443:3:3:1684:1135#0/1  
aZabb¥aa¥`^\_a^^]`^`^\_aa^Y`¥\_\_\_^\_[\_¥\_`^  
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+HWI-EAS443:3:3:1691:844#0/1  
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+HWI-EAS443:3:3:434:276#0/1  
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+HWI-EAS443:3:3:446:330#0/1  
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+HWI-EAS443:3:3:457:1041#0/1  
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+HWI-EAS443:3:3:503:1222#0/1  
abb`bbbbaaa`aaa`^`b`^aa``a^V¥a^a\_¥`a\_XW`





+HWI-EAS443:3:3:750:1204#0/1  
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+HWI-EAS443:3:3:774:1512#0/1  
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+HWI-EAS443:3:3:834:465#0/1  
U`^\_W^`QR``aZS`a]\_`ba[\_abb^Qa`\_W^a^`abW  
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+HWI-EAS443:3:3:864:161#0/1  
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+HWI-EAS443:3:3:922:1275#0/1  
\_\_R]XZba`RUYaWa\_a[¥¥X^`Ta[PW]X^X]]`S]SO  
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+HWI-EAS443:3:3:927:1149#0/1  
abba`abbaaaaa\_baaaa`aa`aaa`a\_¥a\_a`a`\_a¥^  
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``\_]\_aU[X¥Na\_a\_``]\_V\_[\_^0a`0\_R^\_\_\_^[`JRB  
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+HWI-EAS443:3:3:977:843#0/1  
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+HWI-EAS443:3:3:980:1745#0/1  
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+HWI-EAS443:3:40:1000:923#0/1  
aaa^`a¥\_[\_^a^a]```\_^]\_``\_\_[^^^][[]][\_YXW  
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aaaaa\_\_ZQ\_a[XW^\_\_`]¥\_\_`\_^]YZ\_¥W\_]\_Z\_W]¥  
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+HWI-EAS443:3:40:1069:933#0/1  
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a``abbbbbbaabbbbbbb`bbbbbaaXa¥aaa\_¥^]\_^a\_  
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+HWI-EAS443:3:40:1141:1605#0/1  
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+HWI-EAS443:3:40:1267:211#0/1  
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+HWI-EAS443:3:40:1282:2041#0/1  
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aa`\_\_b`aaa^`^a]`a`a\_`\_`Y^a[^`^a`aa`a\_a[  
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+HWI-EAS443:3:40:1408:1261#0/1  
¥¥`^^^a\_Ua][\_]aaa`\_W\_``[YQ[0^Y\_\_¥`[`X\_¥  
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+HWI-EAS443:3:40:1446:273#0/1  
W`ba¥W`\_Ybb[aL]a`\_aa\_]`^WTL^`\_V`\_aaY¥^\_a  
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+HWI-EAS443:3:40:1453:1437#0/1  
Y^a^¥aY\_a`Z]\_¥`[\_`^ba]U¥^R`\_Z^UYWV\_S`^a\_  
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N¥]K\_\_bb\_b`b\_abaY¥babb^`WG¥`\_``bba`Y0Xaa]  
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+HWI-EAS443:3:40:1592:525#0/1  
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+HWI-EAS443:3:40:1712:1757#0/1  
aaY^\_bb`] `a]¥]a¥aaaaa\_\_a[]\_``U] `a`] `aZ  
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+HWI-EAS443:3:40:171:1178#0/1  
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+HWI-EAS443:3:40:1783:1047#0/1  
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¥\_U[\_^]`a¥Z^¥\_\_aa`a`V`^\_aaa`¥^XSZ]X[a  
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+HWI-EAS443:3:40:392:699#0/1  
V^aaV`a\_¥[\_\_ZYW```bba¥`^VZX¥aa`^Y¥]¥^^W  
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+HWI-EAS443:3:40:476:2029#0/1  
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+HWI-EAS443:3:40:552:1530#0/1  
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`^T]ZU][^^`\_Y]\_[^0\_YQV`UUUV\_RR¥^VRVVZU¥Y  
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+HWI-EAS443:3:40:575:29#0/1  
a^a`a`aaaaaba\_aaaaaa^aa`a`W^`a\_\_`aY¥\_\_`a  
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+HWI-EAS443:3:40:640:1292#0/1  
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+HWI-EAS443:3:40:707:1914#0/1  
aa\_aa`^V`a\_a¥``\_\_``\_aaaa^¥Wa`\_]\_]aaY]`]]  
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+HWI-EAS443:3:40:889:347#0/1  
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+HWI-EAS443:3:40:952:144#0/1  
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@HWI-EAS443:3:40:957:296#0/1  
GTGATAAAGAACAACATGATAAACAATGACCTTGGACCTG  
+HWI-EAS443:3:40:957:296#0/1  
a¥\_[]b^`][`T`PaY]\_W\_]a[RXYVQT\_\_\_\_^P¥R  
@HWI-EAS443:3:40:994:1297#0/1  
ATGGTGTCTAGGGCCCGGATTGATGCCAGGGTCGACTTCG  
+HWI-EAS443:3:40:994:1297#0/1  
[^^aX\_Xb]`\_]Zaa]aa]Z`¥RV^Z¥VPY`Uaa^¥U¥aY  
@HWI-EAS443:3:42:1002:819#0/1  
AGGGAATACAAGCAGGAGTGGACAGATTCTACAGGACCTG  
+HWI-EAS443:3:42:1002:819#0/1  
abaa\_aaa\_a`aaaaaa^`a\_`\_]Y`a\_`G\_¥ZR]RV  
@HWI-EAS443:3:42:1022:712#0/1  
GGGCTCCAATCATCCGACGATTTTGCTCTCATAGTGAATG  
+HWI-EAS443:3:42:1022:712#0/1  
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+HWI-EAS443:3:42:1024:155#0/1  
ab\_a`b\_a\_b`ab]\_a``¥U¥a\_]a`^aaP`\_aYSSa]\_  
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GTCCTCCATCTGATACTAATAGCCCTACCTTTGATTGGGT  
+HWI-EAS443:3:42:1040:1020#0/1  
aaaabbabaabb`aa`aaaaa`\_aa`\_aaaa]aaa\_]`^  
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+HWI-EAS443:3:42:1042:555#0/1  
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GAAGAATCCCACCCAGGAATATTTGAGAATTCATGCCTTG  
+HWI-EAS443:3:42:1060:497#0/1  
a\_ba\_Za]V]\_]]`a`aa\_^]]`aa`a^[]^ZX^]  
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GATTCCATTACATCCTTTAAGAAATCTATTAGCCTTCCTG  
+HWI-EAS443:3:42:1062:387#0/1  
\_]\_aa\_V\_baa`a[X`aa`\_a¥T]]`aa`aa`\_\_\_\_`a``  
@HWI-EAS443:3:42:1064:1599#0/1  
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+HWI-EAS443:3:42:1064:1599#0/1  
]abbabaabaaababbabbabb`\_`abbaabb`aba`aa  
@HWI-EAS443:3:42:1122:432#0/1  
CTTGAACAGTCTGGGCTCCCAGTAGGGGCAATGAAAAGA  
+HWI-EAS443:3:42:1122:432#0/1  
abbaabaaaabaaa`aa`aa\_a¥`aaaa`aaaa\_aaa``  
@HWI-EAS443:3:42:1143:115#0/1  
GGGTTGTTATCTCTATTTCTCTTTGTTTTCATTGATTCCAT  
+HWI-EAS443:3:42:1143:115#0/1  
abb^bbabab`bababba`\_a\_abaaaaaaa`^b`\_\_a`



@HWI-EAS443:3:42:1143:837#0/1  
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+HWI-EAS443:3:42:1143:837#0/1  
aba`aaabbbbabbb`\_aaaabbb`\_\_`abaa\_aa`  
@HWI-EAS443:3:42:1159:822#0/1  
CAAGAATCCCCTTTGGCTTGTGTTGAGAATAGAACGATT  
+HWI-EAS443:3:42:1159:822#0/1  
a`bbbYbbaaaabbbbaaaaaYaZa\_]a`a]¥QZ¥]\_]S]  
@HWI-EAS443:3:42:1178:682#0/1  
AAATCGTCGGATGATTGGAGCCCATCCCACCAGTATATTG  
+HWI-EAS443:3:42:1178:682#0/1  
^^aaa`\_bbaaaaa```\_aa`]\_a]\_]`¥^X`a^`\_]  
@HWI-EAS443:3:42:1213:1276#0/1  
CATGGGCTGGCATTACCACAGCATTGTTTACAGAATCAAT  
+HWI-EAS443:3:42:1213:1276#0/1  
]bb`a`abba`ababa`a`baaaa`aa``]a`aa\_Z```  
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+HWI-EAS443:3:42:1220:1139#0/1  
\_`aa\_bbbb`abab`b`^aabb`bb`bbbaaaaa`aa  
@HWI-EAS443:3:42:1252:931#0/1  
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+HWI-EAS443:3:42:1252:931#0/1  
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CGAGTCTGGACGGATCAAGAAAGAAGAGTTCTCTGAGATC  
+HWI-EAS443:3:42:1258:830#0/1  
a¥^YPYYO¥a\_]\_ZTOXQFU^YYZY\_\_TG]¥```¥JXN]¥  
@HWI-EAS443:3:42:1266:722#0/1  
CCTGGGTGGGATTCTTCAAGGAAAGCCATAGCCTCTAGAA  
+HWI-EAS443:3:42:1266:722#0/1  
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CAGAGATTTCTTTCACAATCACTGGGGACAACACTAAGTG  
+HWI-EAS443:3:42:1275:1568#0/1  
aa``Z`aa`baaaa`a\_baa\_aaa\_aaaa`a\_a`^aY\_  
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CAGGAACAGGATACACCATGGACACAGTAAACAGAACACA  
+HWI-EAS443:3:42:1288:1935#0/1  
]a[`a`abaaa`a`S`aab`Z[\_Tbaaaa\_N¥\_]b^a^a  
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+HWI-EAS443:3:42:1289:616#0/1  
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@HWI-EAS443:3:42:1298:913#0/1  
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+HWI-EAS443:3:42:1298:913#0/1  
aa\_aaaaaa```\_]a^]^[^a\_T\_W^`\_aXXSYS`VV\_  
@HWI-EAS443:3:42:1321:1495#0/1  
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+HWI-EAS443:3:42:1321:1495#0/1  
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@HWI-EAS443:3:42:1338:238#0/1  
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+HWI-EAS443:3:42:1338:238#0/1  
abbababab`a`aabaaaa```a`aaaa^\_aa\_]`\_  
@HWI-EAS443:3:42:1356:366#0/1  
GTCGGATGATTGGAGCCCATCCCACCAGTATATTGTCTTG  
+HWI-EAS443:3:42:1356:366#0/1  
`Ya\_\_babaaa`a^`\_`\_aa]`YY¥Wa]Y^]]ZX[]a`  
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+HWI-EAS443:3:42:1363:1161#0/1  
abbaaab¥aaaaba`aa^Z]R^`¥aa\_aa^`XO[\_\_\_¥X  
@HWI-EAS443:3:42:1384:676#0/1  
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+HWI-EAS443:3:42:1384:676#0/1  
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+HWI-EAS443:3:42:1406:780#0/1  
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+HWI-EAS443:3:42:1458:851#0/1  
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+HWI-EAS443:3:42:1471:1481#0/1  
a\_aaaaaa`abaaaa`a`a`^`]aaa`a]\_a\_a^a^`X^  
@HWI-EAS443:3:42:1474:1427#0/1  
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+HWI-EAS443:3:42:1474:1427#0/1  
J^abb\_aa`bba^¥ababaabaaY`a\_aaaa`b^aa`aa^  
@HWI-EAS443:3:42:1543:1238#0/1  
GCTTGAACAGTCTGGGCTCCCAGTAGGGGGCAATGAAAAG  
+HWI-EAS443:3:42:1543:1238#0/1  
\_aab\_bb`Zbaab¥Iba`¥``b\_aVa`aaZ\_[aa\_\_[] [  
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+HWI-EAS443:3:42:1548:1314#0/1  
]ZT]^b¥^[abaa\_\_a\_aab`Y`Z`]aa\_aaaa`[¥^Z^¥  
@HWI-EAS443:3:42:1561:1879#0/1  
AGGCCATGGTGTCTAGGGCCCGGATTGATGCCAGGGTCGA  
+HWI-EAS443:3:42:1561:1879#0/1  
\_a^OVZaX¥K¥K`U¥^^[UWFZ[RP¥ZRTBBBBBBBBBBB  
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+HWI-EAS443:3:42:1595:1355#0/1  
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@HWI-EAS443:3:42:1668:699#0/1  
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+HWI-EAS443:3:42:1668:699#0/1  
aYbaaaaa`¥aaa\_a`a\_\_\_a\_[a^a\_a[\_^\_`\_\_  
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ACAAAGAGGAAATAGAGATAACAACCCACTTTCAAAGAAA  
+HWI-EAS443:3:42:1674:1584#0/1  
]\_]U^aU`bbaaaYaabbaa^`baW¥V]aba¥WZ\_ab]ZQ  
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+HWI-EAS443:3:42:1676:71#0/1  
]abbbbabbaaa\_ab¥N¥bbbaabbabba\_`\_ab^]¥^  
@HWI-EAS443:3:42:171:643#0/1  
GTTCTGTTTACTGTGTCCATGGTGTATCCTGTTCTGTTTC  
+HWI-EAS443:3:42:171:643#0/1  
a\_aa`Z[\_`\_\_aaWa\_a`a`\_a\_¥aVa^^`\_a¥\_[^\_]WYW  
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GCAGGTCCAAGGTCATTGTTTATCATGTTGTTCTTTATCA  
+HWI-EAS443:3:42:1738:1651#0/1  
a`a`a^`\_`a`Z\_\_a`a`^`^`\_]\_\_\_\_]¥X^\_\_^\_[¥  
@HWI-EAS443:3:42:1746:677#0/1  
GAGCTAATGGATGATGATTATCGGGGAAGACTTTGTAATC  
+HWI-EAS443:3:42:1746:677#0/1  
`Z^\_aa`¥`aaa^^\_a\_\_\_`^a\_[¥YZ¥¥Ua^YUY¥[TQ  
@HWI-EAS443:3:42:1775:1361#0/1  
GTCCCCAGTGATTGTGAAAGAAATCTCTGTGTCTTGTGAA  
+HWI-EAS443:3:42:1775:1361#0/1  
`ba\_ab\_U\_^aab^aa^aaYZ\_ZYZ¥aa\_\_¥Y\_^`\_`Y¥  
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CATTGAAGTACTTCAGGTCAATGCTTGCTAGCATTCTGC  
+HWI-EAS443:3:42:1776:1065#0/1  
Z^¥T\_¥\_¥`]^\_\_`\_]\_\_Y\_ZUXa]^\_\_^\_¥¥¥\_¥^a`Z  
@HWI-EAS443:3:42:25:1101#0/1  
CAGATCTTCATGATCTCAGAGAACTTTCTTTCTTGATCC  
+HWI-EAS443:3:42:25:1101#0/1  
abaabbbababaaba`aaaaa\_\_¥`\_`aaaaaaa`a`\_`\_  
@HWI-EAS443:3:42:309:342#0/1  
CATCAAAGACTACAGATACACATATAGGTGCCATAGGGGA  
+HWI-EAS443:3:42:309:342#0/1  
Z`a¥`\_`¥`^`^¥V¥a^aZ¥ab^babbaabaaaaT^ab`\_`  
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GCCAGGTGCGACTTCGAGTCTGGACGGATCAAGAAAGAAG  
+HWI-EAS443:3:42:338:1802#0/1  
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+HWI-EAS443:3:42:343:810#0/1  
a\_^`^`b`^^aa^¥]a`]]`a`aa`\_`\_`Y¥a\_a\_`Z^`a  
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+HWI-EAS443:3:42:351:1227#0/1  
aa^abaWba^]\_`]aaaaaaa````aaa\_^]VM``\_aab¥  
@HWI-EAS443:3:42:351:210#0/1  
ATGGATGTCAATCCGACTCTACTTTTCCTAAAAATTCCAG  
+HWI-EAS443:3:42:351:210#0/1  
\_`[`a¥\_a¥a`^[^b`QW\_aaWaab\_`aaa^aa\_¥\_^^\_Z  
@HWI-EAS443:3:42:378:1593#0/1  
CAAGAATTCCCCTTTGGCTTGTGTTGAGAATAGAACGATT  
+HWI-EAS443:3:42:378:1593#0/1  
abb`bbbbbbbabbbba`bbaa]^baabababZbb`]^`aa  
@HWI-EAS443:3:42:379:277#0/1  
GGTGCATTCACTATGAGAGCAAATCGTCGGATGATTGGA  
+HWI-EAS443:3:42:379:277#0/1  
ab[aaaa\_`a\_a\_aaabab^\_aa\_`¥¥[aaa`\_a]^`\_`^Y  
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+HWI-EAS443:3:42:406:101#0/1  
abaa`aaa`\_b`aaaW`\_a]R¥\_\_`]^`\_`^]^]]W]  
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+HWI-EAS443:3:42:418:912#0/1  
ababbbababaaabaa^`aaaa\_`a`a[¥\_]a\_S]^`\_`¥a  
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+HWI-EAS443:3:42:432:2012#0/1  
\_¥aV\_`X\_\_b^H]Z`¥[Z`\_`YW\_ZXUHWXX[W]Z[^]  
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+HWI-EAS443:3:42:497:860#0/1  
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+HWI-EAS443:3:42:501:1946#0/1  
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+HWI-EAS443:3:42:526:862#0/1  
aaa\_a`aaaaa\_`a`\_a^\_`\_¥a\_Z`\_`\_`\_W\_`\_`\_]  
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+HWI-EAS443:3:42:529:12#0/1  
Va]aaaa]^SX¥\_\_a\_UT`]^`\_V^\_\_[\_V`Z]^XM]YZ^  
@HWI-EAS443:3:42:545:1614#0/1  
CTTGGGAATCCAGGAATGTGTAGTTGCAACGGCATCATAT  
+HWI-EAS443:3:42:545:1614#0/1  
Saba¥`\_`ba^a`]^¥¥]\_WZaZT]¥^\_`\_Z\_]`V]^`\_`aa  
@HWI-EAS443:3:42:569:1279#0/1  
GTCCACTCCTGCTTGTATTCCCTCATGGTTTGGTGCATTC  
+HWI-EAS443:3:42:569:1279#0/1  
``abaabaaaaaaa\_aaaaa`a`ZGYZU\_`]^XS¥\_\_^[[

@HWI-EAS443:3:42:572:980#0/1  
CAATTGAAGAGCCATCTGGGCCGTTGCAGGTCCAAGGTCA  
+HWI-EAS443:3:42:572:980#0/1  
a`ba\_¥]\_¥¥baZa^¥¥` [ `Yaa[]a`^aa]\_`\_¥aa¥V[  
@HWI-EAS443:3:42:577:1662#0/1  
GTAAAAAGAAGGGCTATCGCAACACCTGGGATGCAGATT  
+HWI-EAS443:3:42:577:1662#0/1  
[ `^\_Zba]]ab]` [^aRVTX^b¥^]XY`VZ¥[^YXY`\_X  
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+HWI-EAS443:3:42:628:1857#0/1  
aaaa\_babaaabaabaaaaaa`]aa`a`aaaa` `aa`a  
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ATTCATATGAGAGCAAAATCGTCGGATGATTGGAGCCCA  
+HWI-EAS443:3:42:638:1663#0/1  
TWabYYSaa\_a` `^a^[a]`ZN\_XX\_X[\_[¥FM[DO^a`  
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TAGCAGTTCATATAGGAGACCGTTGGAATTTCTAGCATG  
+HWI-EAS443:3:42:661:885#0/1  
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GGCTAATTTTATGAGCTGGAGCTACCCAGCTTTGGAGTGTCT  
+HWI-EAS443:3:42:693:513#0/1  
abbbbbbbbbbaabbaaabab`aaaababba`a¥^aa  
@HWI-EAS443:3:42:722:1380#0/1  
GTTGTTCTTTATCACTGTTACTCCAATACTCATGTCAGCT  
+HWI-EAS443:3:42:722:1380#0/1  
a^a` []Za`\_`Y]^W]][]^a\_X^¥`a`\_\_ [QQ¥¥¥]¥  
@HWI-EAS443:3:42:734:169#0/1  
CAGGAACAGGATACCCATGGACACAGTAAACAGAACACA  
+HWI-EAS443:3:42:734:169#0/1  
a`a`^bb\_]`WSX¥¥`NXT]`\_\_\_\_X[LS][XPWY]R]Y¥  
@HWI-EAS443:3:42:751:514#0/1  
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+HWI-EAS443:3:42:751:514#0/1  
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+HWI-EAS443:3:42:766:105#0/1  
abbabbaa`bbb`\_`¥a\_baaab\_^a\_\_a\_^]aa^`^¥^`  
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AAAAATCCAGCGCAAATGCCATAAGCACCACATTCCCT  
+HWI-EAS443:3:42:77:784#0/1  
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+HWI-EAS443:3:42:796:1664#0/1  
ZY¥¥ab¥VaYbb\_abP^aa[a`baa` `aaaS`Y^a¥00Y[  
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+HWI-EAS443:3:42:828:97#0/1  
aWaY\_P`\_\_¥RaXXYVOW\_WZ^^UQFXR\_R¥QN[RYZ]  
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GGCCCGGATTGATGCCAGGGTCGACTTCGAGTCTGGACGG  
+HWI-EAS443:3:42:861:675#0/1  
aaaaabaX]aa\_\_a¥`aa`S^a[^`^]a^\_UYW^aQ[`Z  
@HWI-EAS443:3:42:898:250#0/1  
CTCCCATTTTAAGCAGACTTCAGGAATGTGAAGATTCCGT  
+HWI-EAS443:3:42:898:250#0/1  
aaaababbbbbbaabaabaabba`abb\_ba`b\_`aa`b]  
@HWI-EAS443:3:42:898:435#0/1  
GGGATGGGCTCCAATCATCCGACGATTTTGCTCTCATAGT  
+HWI-EAS443:3:42:898:435#0/1  
\_\_[GVabbaaa`ba^ZTV`^^`a\_`\_[ZaXV¥a`[U^XF  
@HWI-EAS443:3:42:925:851#0/1  
CTGACATTAATACGATGACCAAAGATGCAGAGAGAGGCA  
+HWI-EAS443:3:42:925:851#0/1  
\_`ZN^TT```a`b\_b`]a`]`WS\_a¥]`b]b]¥Zab^`a\_  
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+HWI-EAS443:3:42:930:1014#0/1  
aa¥Z[a]HRU¥U¥TS]aTSPY^Z]UW^¥^¥T[\_VRXJPTW  
@HWI-EAS443:3:42:970:749#0/1  
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+HWI-EAS443:3:42:970:749#0/1  
a¥^]aaaa`[^`aaZ\_\_\_\_\_a\_`^]]]¥\_\_\_\_\_]``[U]  
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+HWI-EAS443:3:42:982:300#0/1  
a`\_a]a`aa^aa\_\_`^`a`^`a`^^]a\_\_^`a\_Y^aa\_\_X  
@HWI-EAS443:3:43:1034:1885#0/1  
CCGATAATCATCATCCATTAGCTCCCATTTTAAGCAGACT  
+HWI-EAS443:3:43:1034:1885#0/1  
X`b`b^¥^a¥¥aVL]bb`abY¥¥ba^babaa`¥VVb`TN  
@HWI-EAS443:3:43:1065:356#0/1  
GTGGGATTCTTCAAGGAAAGCCATAGCCTCTAGAACACAG  
+HWI-EAS443:3:43:1065:356#0/1  
UN\_b`X\_]Y¥a`aY^]]¥aaW¥[a^a^U`aaVQRW^VP¥^  
@HWI-EAS443:3:43:109:502#0/1  
TCCAATCATCCGACGATTTTGCTCTCATAGTGAATGCACC  
+HWI-EAS443:3:43:109:502#0/1  
abbaaaa\_`aa`aa`aaaa\_````aa^¥a¥\_`a[^`^`  
@HWI-EAS443:3:43:1120:376#0/1  
CCCGGATTGATGCCAGGGTCGACTTCGAGTCTGGACGGAT  
+HWI-EAS443:3:43:1120:376#0/1  
a\_\_`bab\_Z]a\_aaba`¥a`aaWU`X`]\_aadWZ`\_[^  
@HWI-EAS443:3:43:1128:1693#0/1  
CCGGATTGATGCCAGGGTCGACTTCGAGTCTGGACGGATC  
+HWI-EAS443:3:43:1128:1693#0/1  
abW¥Xb\_a\_abaaba`ZQ¥`¥L`]T[X]¥]X`YP^[`\_\_

@HWI-EAS443:3:43:1177:1663#0/1  
CCCAGTGTGTTGAAAGAAATCTCTGTGTCTTGTGAATTA  
+HWI-EAS443:3:43:1177:1663#0/1  
ababaababbbYaaabbabaaaa`aa\_a`b\_]`\_`aaa^  
@HWI-EAS443:3:43:1180:1761#0/1  
GAAGAATCCCACCCAGGAATATTTGAGAATTCATGCCTTG  
+HWI-EAS443:3:43:1180:1761#0/1  
``]bba`[aaaS[]aY[\_\_\_¥a`\_`a[^a¥^U¥`VYP`\_]\_  
@HWI-EAS443:3:43:1182:420#0/1  
ACCGGCAGCAACTGCATTGGCCAACCCATAGAAGTCTTT  
+HWI-EAS443:3:43:1182:420#0/1  
aaaa`aaa\_¥aVN¥[¥[^a[Z¥M^YYYYVY\_W\_^SQ[\_\_\_  
@HWI-EAS443:3:43:1189:504#0/1  
AAATTCCAGCGCAAATGCCATAAGCACCATTCCTTA  
+HWI-EAS443:3:43:1189:504#0/1  
V¥HWb]]][T`b\_bUaT`aK]]]\_a`][H`TUT]\_NZ]]  
@HWI-EAS443:3:43:1207:1285#0/1  
ACTTTTCCTAAAAATCCAGCGCAAATGCCATAAGCACC  
+HWI-EAS443:3:43:1207:1285#0/1  
a^abbbbababbaa`aZaaaaa^\_aa\_aa`aaaY`aTN  
@HWI-EAS443:3:43:1212:917#0/1  
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+HWI-EAS443:3:43:1212:917#0/1  
`]¥WY\_Z\_WHY[]JWWPW[`aZWV]UM[VQV\_¥¥¥]`UU¥  
@HWI-EAS443:3:43:1275:461#0/1  
CACTAACTTGCAGGTCCTGTAGAATCTGTCCACTCCTGCT  
+HWI-EAS443:3:43:1275:461#0/1  
aVI\_Z]aab`Y`[¥TV`]ZG[a¥Y`¥abXa[^[OXXX`a`  
@HWI-EAS443:3:43:1311:1904#0/1  
TGGGTGGGATTCTTCAAGGAAAGCCATAGCCTCTAGAACA  
+HWI-EAS443:3:43:1311:1904#0/1  
abaaYaaa`\_a\_a`^a`a^`a`\_\_\_\_\_`\_\_`T\_]^^¥\_\_¥W  
@HWI-EAS443:3:43:133:436#0/1  
AAAAGCATGGAATATGATGCCGTTGCAACTACACATTCCT  
+HWI-EAS443:3:43:133:436#0/1  
a`aaaaa¥\_\_\_`\_a\_a]W`]\_a^Ya\_^\_]\_Z\_]^[X]Z  
@HWI-EAS443:3:43:1406:1109#0/1  
GTCCACTCCTGCTTGTATTCCCTCATGGTTTGGTGCATTC  
+HWI-EAS443:3:43:1406:1109#0/1  
a^`]]`aa`]]Xa`a`aaW]]`W^\_[W NX]`VP`]\_`\_T  
@HWI-EAS443:3:43:1434:1965#0/1  
CAGGAATGTGTAGTTGCAACGGCATCATATCCATGCTTT  
+HWI-EAS443:3:43:1434:1965#0/1  
H¥YbVb`````\_abb`bb`b`b`b`b`baHSURa[aa`  
@HWI-EAS443:3:43:143:1941#0/1  
ATTTTAGCATGGAGCTACCCAGCTTTGGAGTGTCTGGAGT  
+HWI-EAS443:3:43:143:1941#0/1  
`\_`aaaaaabbaa\_aa^¥aaQ]]W^a]HU]XZYWa]XKVI  
@HWI-EAS443:3:43:1559:1677#0/1  
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+HWI-EAS443:3:43:1559:1677#0/1  
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@HWI-EAS443:3:43:1561:1390#0/1  
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+HWI-EAS443:3:43:1561:1390#0/1  
ab`aaa`abaa\_XZaS`^`a\_R`¥`ZV\_^[]R[[`V¥S  
@HWI-EAS443:3:43:159:1895#0/1  
GGGCTCCAATCATCCGACGATTTTGTCTCATAGTGAATG  
+HWI-EAS443:3:43:159:1895#0/1  
^¥\_bbbb`bbabbbabb]aaaabbbbbaabba]^aaba  
@HWI-EAS443:3:43:1625:131#0/1  
CAAAATCGTCGGATGATTGGAGCCCATCCCACCAGTATAT  
+HWI-EAS443:3:43:1625:131#0/1  
`^)`bb`¥baa`[^a`aa\_\_LYX][NXX[ZWWTPR^XY  
@HWI-EAS443:3:43:1648:32#0/1  
GTAGGGCTATTAGTATCAGATGGAGGACCAAACCTTATACA  
+HWI-EAS443:3:43:1648:32#0/1  
aZ]a[^a`a^^`Y\_\_]^a^\_\_Y`^][[ZZYY[[]^YV¥  
@HWI-EAS443:3:43:1655:1662#0/1  
TCCAGGAATGTGTAGTTGCAACGGCATCATATCCATGCT  
+HWI-EAS443:3:43:1655:1662#0/1  
`b`)^b^[b`\_`R`bW`bYaaN]aT`^L`a\_\_\_\_T[^`[Q\_  
@HWI-EAS443:3:43:1661:224#0/1  
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+HWI-EAS443:3:43:1661:224#0/1  
aa`M`Waaa`aaaa`a¥b\_\_\_\_\_`\_Y\_\_[\_\_\_\_^VX\_\_\_\_  
@HWI-EAS443:3:43:1705:1180#0/1  
AGTAAACAGAACACACCAATACTCAGAAAAGGGAAAGTGG  
+HWI-EAS443:3:43:1705:1180#0/1  
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@HWI-EAS443:3:43:1712:2012#0/1  
AGAATCTGTCCACTCCTGCTTGTATTCCCTCATGGTTTGG  
+HWI-EAS443:3:43:1712:2012#0/1  
a]aaa^aa\_WR`0]^¥\_a]a\_HTY`a]V]\_RV\_¥SX\_\_NY  
@HWI-EAS443:3:43:175:401#0/1  
CCTCCATCTGATACTAATAGCCCTACCTTTGATTGGGTTT  
+HWI-EAS443:3:43:175:401#0/1  
abaaabbabbbbaa`b]^babaabab`baaababaaaa\_aa  
@HWI-EAS443:3:43:1777:1274#0/1  
GAACAATTGAAGAGCCATCTGGGCCGTTGCAGGTCCAAGG  
+HWI-EAS443:3:43:1777:1274#0/1  
a`V]^`aaabaaa\_\_a`a]^a¥aa]^\_^Z¥WX^URQWV]Y  
@HWI-EAS443:3:43:178:1731#0/1  
CTCTTTATGACTGACAAAGGGATTGAGGGATTACAAAGT  
+HWI-EAS443:3:43:178:1731#0/1  
aaaab`aaaba`^W`aa`\_¥`\_^aa^[\_``\_aa`\_`)\_X  
@HWI-EAS443:3:43:206:1422#0/1  
TAATTCACAAGACACAGAGATTTCTTTTCACAATCACTGGG  
+HWI-EAS443:3:43:206:1422#0/1  
```aabba]a\_aa`aaaaa\_aababaaaaaaa^aaaaWX


@HWI-EAS443:3:43:250:1075#0/1
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+HWI-EAS443:3:43:250:1075#0/1
abaa_baba_b]aa`baba`_aaa`aaaa^]`ZNX¥`_¥
@HWI-EAS443:3:43:325:1068#0/1
TAACAACCCACTTTCAAAGAAAAAGGAGAGTAAGAGACAA
+HWI-EAS443:3:43:325:1068#0/1
abbaaaa_aaaa`a`_`aX_____aa^`Va^`a`aaa^aa
@HWI-EAS443:3:43:330:1249#0/1
CTTGCAGGTCCTGTAGAATCTGTCCACTCCTGCTTGTATT
+HWI-EAS443:3:43:330:1249#0/1
abbbbaa`baab_aaabaabaaa]aaa````_aaa^_a`
@HWI-EAS443:3:43:382:1119#0/1
AATTCTCAAATATTCTGGGTGGGATTCTTCAAGGAAAGC
+HWI-EAS443:3:43:382:1119#0/1
KK[_aaa¥aabbb_abbb^`V`_aa_abbbaabbbbaabb
@HWI-EAS443:3:43:406:429#0/1
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+HWI-EAS443:3:43:406:429#0/1
a`aa`a_a`[_aX_]`^`Wa][`a[ZT`_]XX]^]
@HWI-EAS443:3:43:419:1626#0/1
GTGCCATGCTCAGGATGTTTCTGAACCACTCGGGTTGATT
+HWI-EAS443:3:43:419:1626#0/1
V]``Saaa`a_¥_baaVabbbbbbb^S_aa^^a`aba[aa
@HWI-EAS443:3:43:423:1095#0/1
AAAAATTCCAGCGCAAATGCCATAAGCACCATTCCT
+HWI-EAS443:3:43:423:1095#0/1
H_aZa`^`a__a][Y__a_bY0`ba^`^`[V0^a_YVUZN¥
@HWI-EAS443:3:43:480:434#0/1
CAAGAATTCCCCTTTGGCTTGTGTTGAGAATAGAACGATT
+HWI-EAS443:3:43:480:434#0/1
aabbb¥W_ba[bababbabaabab]bbaaaa`aab`_baaa
@HWI-EAS443:3:43:481:895#0/1
CCCAGTGGTTCAGAAACATCCTGAGCATGGCACCCATAA
+HWI-EAS443:3:43:481:895#0/1
_a¥b_aab`bb]_`a¥a_b]ab^_]b^baaa^^`a_b`a`
@HWI-EAS443:3:43:48:1131#0/1
ACAGTCTGGGCTCCCAGTAGGGGGCAATGAAAAGAAGGCC
+HWI-EAS443:3:43:48:1131#0/1
a_b_V_abaab`aa`Y_VZ]_]`^aZaaa````aa_a]aaa
@HWI-EAS443:3:43:491:1250#0/1
CGCAACACCTGGGATGCAGATTAGAGGTTTCGTATACTTT
+HWI-EAS443:3:43:491:1250#0/1
abZ[¥SV`_PZ_ZU¥a`W`UaVYP¥__R__Q`^__R]^_]`
@HWI-EAS443:3:43:495:1669#0/1
AAAGCATGGAATATGATGCCGTTGCAACTACACATTCCTG
+HWI-EAS443:3:43:495:1669#0/1
_b^UabaaaYa`^aa`^_a`0_]`__`a]¥__^W^]^^
@HWI-EAS443:3:43:550:537#0/1
TTACATCCTTTAAGAAATCTATTAGCCTTCCTGACTCATT

+HWI-EAS443:3:43:550:537#0/1
_ [Z `ba^ab_^a^R` []^^aa]W_^a_W¥]_`_a`aa`
@HWI-EAS443:3:43:571:1997#0/1
AATCTGTCCACTCCTGCTTGTATTCCCTCATGGTTTGGTG
+HWI-EAS443:3:43:571:1997#0/1
aa¥X`ba¥_]¥_a`^XM^U]aaRF¥`MI¥¥`_Qa[_aLL
@HWI-EAS443:3:43:574:1175#0/1
ACCTGAAGTACTTCAATGAATCAACAAAGAAGAAAATTGA
+HWI-EAS443:3:43:574:1175#0/1
_` `[^Xab_a¥^aaab`_^` `]`aa^a¥a^Y` `¥_¥aaY_
@HWI-EAS443:3:43:576:220#0/1
ATGGGTGCCATGCTCAGGATGTTTCTGAACCACTCGGGTT
+HWI-EAS443:3:43:576:220#0/1
a^abaZa_a_aa`__a`aW`^`a¥`Y^ZRUYXX[^a¥O]
@HWI-EAS443:3:43:582:508#0/1
GTCCTCCATCTGATACTAATAGCCCTACCTTTGATTGGGT
+HWI-EAS443:3:43:582:508#0/1
a¥Z`P]ZV_^QaaXZNT[XU_NSPRJWL]S¥[aR^SI`TL
@HWI-EAS443:3:43:613:1336#0/1
GAGTAAATGAATCAGCTGACATGAGTATTGGAGTAACAGT
+HWI-EAS443:3:43:613:1336#0/1
^Q¥S)`_]a`YY[] [V[X]¥`YYSVY^¥_TUQUR[^[TXU
@HWI-EAS443:3:43:626:237#0/1
ATCGTCGGATGATTGGAGCCCATCCCACCAGTATATTGTC
+HWI-EAS443:3:43:626:237#0/1
aaaaaaba^` [``a`^`_`__`___^_UJZPVZ¥¥`]]]
@HWI-EAS443:3:43:631:703#0/1
GAGGAATCGTTCTATTCTCAACACAAGCCAAAGGGGAATT
+HWI-EAS443:3:43:631:703#0/1
V)`a)`baba[I[a`][^__X)`^ab^WPR¥aab_]YZZ
@HWI-EAS443:3:43:634:1896#0/1
AGATAACAACCCACTTTCAAAGAAAAAGGAGAGTAAGAGA
+HWI-EAS443:3:43:634:1896#0/1
a_a`a`_aa__`_^`__a`]^`^`]¥__]^_Z_X^^^`¥a
@HWI-EAS443:3:43:647:1297#0/1
GATTGATGCCAGGGTCGACTTCGAGTCTGGACGGATCAAG
+HWI-EAS443:3:43:647:1297#0/1
aZ]a`aW_]_Z`X`G][UW]¥P[¥]V[`]X_]__YTPX]_
@HWI-EAS443:3:43:665:1293#0/1
ATTGATGCCAGGGTCGACTTCGAGTCTGGACGGATCAAGA
+HWI-EAS443:3:43:665:1293#0/1
aba`aa`a`__` `X_]XZ`]]_aUX` _[VZ__¥G¥`^Q¥
@HWI-EAS443:3:43:666:729#0/1
AAATTCCAGCGCAAATGCCATAAGCACCATTCCTTA
+HWI-EAS443:3:43:666:729#0/1
aa`a`aaaa`a`a]a` `a__aaaa]a`_a`a^aW`_`_`
@HWI-EAS443:3:43:670:615#0/1
GAGTAAGAGACAACATGACCAAGAAGATGGTCACGCAAAG
+HWI-EAS443:3:43:670:615#0/1
a`a^_aa`a` `aa___` `__`^`^^`_]` [UX]]`X_]]_

@HWI-EAS443:3:43:677:1599#0/1
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+HWI-EAS443:3:43:677:1599#0/1
`LVHSVW¥W^T]P`S_VSYUXUNR_`P_FZSWRV_VRVZG
@HWI-EAS443:3:43:677:621#0/1
GGTGTGTTCTGTTTACTGTGTCCATGGTGTATCCTGTTCC
+HWI-EAS443:3:43:677:621#0/1
ab`b_b`aabbaaaaab_a_``aaaaZb_``^`aa`____
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CTTAAATGGGAGCTAATGGATGATGATTATCGGGGAAGA
+HWI-EAS443:3:43:707:1457#0/1
`a`¥bbb_¥aa^aaab`a^_a_b^babb`baa]]V[]aaS
@HWI-EAS443:3:43:729:1014#0/1
CAAAGATGCAGAGAGAGGCAAGTTAAAAAGAAGGGCTATC
+HWI-EAS443:3:43:729:1014#0/1
aabaab`Y__`ab^a__baa]`U_aaaUaa`^`_¥P`aTT
@HWI-EAS443:3:43:785:956#0/1
GTAGATAAACTAACTCAAGGTCGCCAGACTTATGATTGGA
+HWI-EAS443:3:43:785:956#0/1
a¥X_Zb`U]W`[W^]PWTTYUU`XWW_XQZZ^^[PZ¥`^T
@HWI-EAS443:3:43:797:1044#0/1
TGGCCTTCTTTTCATTGCCCCCTACTGGGAGCCCAGACTG
+HWI-EAS443:3:43:797:1044#0/1
a]G_P]a_aaa`a_`^a`Z`a[Y^__Z¥^UUUVUQU__
@HWI-EAS443:3:43:836:147#0/1
GGCCGTTGCAGGTCCAAGGTCATTGTTTATCATGTTGTTC
+HWI-EAS443:3:43:836:147#0/1
abaaaT]^VLT¥MXVRR]^`TYRa^YZU[TYMTU^WY[SVU
@HWI-EAS443:3:43:847:698#0/1
CTAATGGATGATGATTATCGGGGAAGACTTTGTAATCCCC
+HWI-EAS443:3:43:847:698#0/1
abaabba`aba`b`ab_a`b_a^]a`a^aaaa_`_`W`_^
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GCCCAGACTGTTCAAGCTTTTCGCAAATGCTCCTAGCTAA
+HWI-EAS443:3:43:857:1274#0/1
abaaabaa`ba_aaa`aaaa¥`^`Y`]¥`_`_`_Y^_aZ
@HWI-EAS443:3:43:869:29#0/1
CGATTTTGTCTCATAGTGAATGCACCAAACCATGAGGGA
+HWI-EAS443:3:43:869:29#0/1
]]bbbbbbbaaaaa`babababaaaa`a`_aaa`aaa_
@HWI-EAS443:3:43:871:784#0/1
GGAGCTAATGGATGATGATTATCGGGGAAGACTTTGTAAT
+HWI-EAS443:3:43:871:784#0/1
a__a_a_V]a`__a_`^`aa_`¥^`__XW_]X^`_`_]`[__
@HWI-EAS443:3:43:880:1663#0/1
CCCGGATTGATGCCAGGGTCGACTTCGAGTCTGGACGGAT
+HWI-EAS443:3:43:880:1663#0/1
abbb_``bababb^a]Ub¥_a]a__a_S`^^_aaZX``aS
@HWI-EAS443:3:43:888:1439#0/1
AGAATCTGTCCACTCCTGCTTGTATTCCCTCATGGTTTGG

+HWI-EAS443:3:43:888:1439#0/1
a^_`__b`aa`_0^__`RYaa`W_Z__¥_NZZ^`S_
@HWI-EAS443:3:43:929:20#0/1
AACATGATAACAATGACCTTGGACCTGCAACGGCCCAGA
+HWI-EAS443:3:43:929:20#0/1
^^^)_aba`aaaaa)`aa`Z`a_a_a[^aaZ_¥^aW
@HWI-EAS443:3:43:938:1182#0/1
GATCCGTCCAGACTCGAAGTCGACCCTGGCATCAATCCGG
+HWI-EAS443:3:43:938:1182#0/1
`a__a__a`a[^`_a^aT¥Y¥^Q¥UVFV¥XQR_`FUUUZ
@HWI-EAS443:3:43:973:1219#0/1
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+HWI-EAS443:3:43:973:1219#0/1
`bbbaaabababab`bbbbaaa`aababbaaaaaabaa`
@HWI-EAS443:3:43:99:1664#0/1
GACAACATGACCAAGAAGATGGTCACGCAAAGAACAATAG
+HWI-EAS443:3:43:99:1664#0/1
VabVba``abbab_¥bbabb^aY`aa`aba`aba`Uaaa
@HWI-EAS443:3:43:9:1230#0/1
TGTATCTGTAGTCTTTGATGAACAATTGAAGAGCCATCTG
+HWI-EAS443:3:43:9:1230#0/1
aaabbbb`¥a`Z`ab`__W][^aaab^^a^^]ZX¥aYQ^
@HWI-EAS443:3:44:1007:1069#0/1
TGTTGATTCCCCTAACTTGCAGGTCCTGTAGAATCTGTGTC
+HWI-EAS443:3:44:1007:1069#0/1
``a`aY_b[aa[Zbaa`X¥¥^aaWaW_a[^`a__Z¥^QT
@HWI-EAS443:3:44:1010:1882#0/1
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+HWI-EAS443:3:44:1010:1882#0/1
WaZ_baZ^b_`___X`Pab_Vaa]TSabaa`aa][baaa
@HWI-EAS443:3:44:1012:334#0/1
CACTAACTTGCAGGTCCTGTAGAATCTGTCCACTCCTGCT
+HWI-EAS443:3:44:1012:334#0/1
`abbYb]b`aa`¥__aa]ba`a_a`a`[P`_`¥__^Z_T]
@HWI-EAS443:3:44:1032:743#0/1
AACCAAGTGGGTATGCACAAACAGACTGTGTTCTAGAGGC
+HWI-EAS443:3:44:1032:743#0/1
a`aa]ab^abaW]aa`a_aY]__`__aaX`]^`^`_`^`_G
@HWI-EAS443:3:44:1048:563#0/1
CAAAGCTGGGTAGCTCCATGCTAAAATTAGCCACAAATCC
+HWI-EAS443:3:44:1048:563#0/1
a`bb^abbab`a]aaa¥b^b^^`aaaaaaaaabaa_WW
@HWI-EAS443:3:44:1067:1746#0/1
GCCGTTGCAACTACACATTCCTGGATTCCCAAGAGGAATC
+HWI-EAS443:3:44:1067:1746#0/1
aaa^P]]VP_[^]N¥X]_¥¥[NT_U^ZKRQ[_¥W[¥[_RY
@HWI-EAS443:3:44:1078:1915#0/1
TATTGGTGTGTTCTGTTTACTGTGTCCATGGTGTATCCTG
+HWI-EAS443:3:44:1078:1915#0/1
a^bbaaXa^a_aaaa^aa`aa_Xa_____`a`T^]__YX¥^

@HWI-EAS443:3:44:1120:1898#0/1
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+HWI-EAS443:3:44:1120:1898#0/1
ab_b^J^a^`_a_¥b`bbab```abbab_R`aa^D^b``¥
@HWI-EAS443:3:44:1167:823#0/1
CAGATCTTCATGATCTCAGAGAACTCTTCTTTCTTGATCC
+HWI-EAS443:3:44:1167:823#0/1
aba_bbbba``babab`aaaba_aa`a]¥aaa^aaa_aXM
@HWI-EAS443:3:44:1228:1527#0/1
GTGGGATGGGCTCCAATCATCCGACGATTTTGCTCTCATA
+HWI-EAS443:3:44:1228:1527#0/1
]P_`^Taa``P[H]U^^¥a`UX``U]]_____`L]MVVY__
@HWI-EAS443:3:44:1231:721#0/1
CTCGAATAGATTGCAGCACTTCTGGTACATCTGTTCATCC
+HWI-EAS443:3:44:1231:721#0/1
abaaaabbbabbbaabaabaabba`aaaaa`^a``a`]
@HWI-EAS443:3:44:1253:234#0/1
AATCTGTCCACTCCTGCTTGTATTCCCTCATGGTTTGGTG
+HWI-EAS443:3:44:1253:234#0/1
`[`Z]YP``aa`]NWOY^[JWV]YOV^WT[_`SJV¥SIK
@HWI-EAS443:3:44:1258:894#0/1
GAGAGGCTATCTAATAAGAGCACTGACATTAATACGATG
+HWI-EAS443:3:44:1258:894#0/1
a]]GVaaa]WU^]_¥VZXVSSXJUWYYY`_X`^^XKXTYZ
@HWI-EAS443:3:44:1312:321#0/1
TAAAGAACAACATGATAAACAATGACCTTGGACCTGCAAC
+HWI-EAS443:3:44:1312:321#0/1
ZRQ¥_RU`VWW`aaVYYY[S]`_XHT^Z`¥TXX]W]]Y
@HWI-EAS443:3:44:1350:81#0/1
AGCTGATTCATTTACTCCAGACACTCCAAAGCTGGGTAGC
+HWI-EAS443:3:44:1350:81#0/1
abbab`bbababba`a_`ab__`^^`____`__`_`Z_]Y
@HWI-EAS443:3:44:1364:666#0/1
GCTAATTTTAGCATGGAGCTACCCAGCTTTGGAGTGTCTG
+HWI-EAS443:3:44:1364:666#0/1
a_ba]aaaaaaaa`aaa_aaa_`_`^a¥_a`a_`^`Wa^Z`_
@HWI-EAS443:3:44:1380:552#0/1
TCCCAGGTGTTGCGATAGCCCTTCTTTTTAACTTGCCTCT
+HWI-EAS443:3:44:1380:552#0/1
_`aVSba_H^aa_¥PV`_WULa`_U[Y^ZY^[_YV¥^^[]
@HWI-EAS443:3:44:1399:1662#0/1
GGGCAATGAAAAGAAGGCCAAACTGGCAAATGTTGTGAGA
+HWI-EAS443:3:44:1399:1662#0/1
`WaH][a[T_]aT____^X__^^Y_Z¥XY^YY^W]_]`]]W
@HWI-EAS443:3:44:139:1688#0/1
GGGGCAATGAAAAGAAGGCCAAACTGGCAAATGTTGTGAG
+HWI-EAS443:3:44:139:1688#0/1
aaaaabbbbbb`baabbaaaabba`aaabbaabaababba
@HWI-EAS443:3:44:1414:538#0/1
AATAAGAGCACTGACATTAATACGATGACCAAAGATGCA

+HWI-EAS443:3:44:1414:538#0/1
abbaab`baaabb^a`baaaaba`b`aba^^a_aaa`a___
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GAACAACATGATAAACAATGACCTTGACCTGCAACGGCC
+HWI-EAS443:3:44:141:33#0/1
aa]`_a]__a]_]`_YZ_a_VY____`U[WZ`RW^Y^¥ST
@HWI-EAS443:3:44:1473:1294#0/1
AGAATCTGTCCACTCCTGCTTGTATTCCCTCATGGTTTGG
+HWI-EAS443:3:44:1473:1294#0/1
ab`aaaaaXa`a`^_Y¥`_a_Z[¥`^^^¥Z^][^a_Y[
@HWI-EAS443:3:44:1473:54#0/1
GAAAGTGGACGACAAACACAGAGACTGGTGACCCCCAGCT
+HWI-EAS443:3:44:1473:54#0/1
aa]`b`baaaba_`aa_¥a`a`_U`_U`^_ZU^Z¥_QU
@HWI-EAS443:3:44:1475:973#0/1
ATGCCAGGGTCGACTTCGAGTCTGGACGGATCAAGAAAGA
+HWI-EAS443:3:44:1475:973#0/1
abaaaaa`^_a`]a`_aaa^`a`_]aa_]_[[^_a]_
@HWI-EAS443:3:44:1554:989#0/1
CCAGGGTCGACTTCGAGTCTGGACGGATCAAGAAAGA
+HWI-EAS443:3:44:1554:989#0/1
```[\_]a\_ZW`^`]]\_b`^a¥aa¥P\_]YXa]```\_X]^  
@HWI-EAS443:3:44:1562:1406#0/1  
CTGGGAGCCCAGACTGTTCAAGCTTTTCGCAAATGCTCCT  
+HWI-EAS443:3:44:1562:1406#0/1  
a`\_^\_PY]^^[aP^a\_0X^\_^^NR^Y]ZYV[Z^]^RQRQV  
@HWI-EAS443:3:44:1569:1751#0/1  
ATGGAATCAATGAACAAAGAGGAAATAGAGATAACAACCC  
+HWI-EAS443:3:44:1569:1751#0/1  
abb\_[aa`ab`aaa^a^^a]aaY\_\_a```a\_aa^Wa`^]U  
@HWI-EAS443:3:44:1582:604#0/1  
GTAAGAGACAACATGACCAAGAAGATGGTCACGCAAAGAA  
+HWI-EAS443:3:44:1582:604#0/1  
VVbbbaWaa¥aS^U\_YYQ¥V¥\_S`^^aRF¥Y^aaJ`Z`Y\_  
@HWI-EAS443:3:44:167:703#0/1  
GATGAACAATTGAAGAGCCATCTGGGCCGTTGCAGGTCCA  
+HWI-EAS443:3:44:167:703#0/1  
abaaa`^`aaaaaba`a`aaa`\_a`a`\_a]\_`^\_a^Y`\_^  
@HWI-EAS443:3:44:1727:1033#0/1  
AATAAGAGCACTGACATTAATACGATGACCAAAGATGCA  
+HWI-EAS443:3:44:1727:1033#0/1  
S\_a`^`aa^b¥Vaaa`^aba[`a`^aa]`^V¥]^`a```OR  
@HWI-EAS443:3:44:1737:1838#0/1  
GAGGCTATCTAATAAGAGCACTGACATTAATACGATGAC  
+HWI-EAS443:3:44:1737:1838#0/1  
S¥^UV]`Y^Q\_¥[`^`[Ya^G[YZV]]\_¥]WZY`^]V^SD  
@HWI-EAS443:3:44:1747:116#0/1  
CCTATATGTGTATCTGTAGTCTTTGATGAACAATTGAAGA  
+HWI-EAS443:3:44:1747:116#0/1  
aabbbbaabaab`bb^aa\_aabaa`\_aa^\_\_aa```\_`^

@HWI-EAS443:3:44:194:427#0/1  
GAAGAGCCATCTGGGCCGTTGCAGGTCCAAGGTCATTGTT  
+HWI-EAS443:3:44:194:427#0/1  
aaa[Y`aa`\_``a\_\_\_]\_`\_^`\_Z^`\_¥^[WZ^\_^`X\_  
@HWI-EAS443:3:44:202:411#0/1  
GCATTGGCCAACACCATAGAAAGTCTTTAGATCGAATGGCC  
+HWI-EAS443:3:44:202:411#0/1  
[a`aabaa^Ta`X\_\_`aa`^\_V\_\_a^`]]\_a``\_\_^\_Z  
@HWI-EAS443:3:44:204:614#0/1  
CCAAAGCTGGGTAGCTCCATGCTAAAATTAGCCACAAATC  
+HWI-EAS443:3:44:204:614#0/1  
]W`aa`^`¥^¥]G[Xaa^Y\_[a\_\_X[]¥]Z]`XZ¥RX]\_]Y  
@HWI-EAS443:3:44:233:1218#0/1  
GTCTGGAGTAAATGAATCAGCTGACATGAGTATTGGAGTA  
+HWI-EAS443:3:44:233:1218#0/1  
``a\_]^[^]]^``a\_Y^¥]\_[[¥WVZ]^^[R]`\_]`¥T¥P[  
@HWI-EAS443:3:44:273:251#0/1  
CCCGGATTGATGCCAGGGTCGACTTCGAGTCTGGACGGAT  
+HWI-EAS443:3:44:273:251#0/1  
aab`b`ababaaa`Z`\_\_Za`\_¥^\_\_\_\_YT^``\_[N^`¥U  
@HWI-EAS443:3:44:27:249#0/1  
GTGTGTTCTGTTTACTGTGTCCATGGTGTATCCTGTTCCCT  
+HWI-EAS443:3:44:27:249#0/1  
aa\_[a[[`aaaa`\_`[XZ[YPV^aSI^U`^^[[[R^US^  
@HWI-EAS443:3:44:289:1848#0/1  
AAAAATCCAGCGCAAATGCCATAAGCACCATTCCT  
+HWI-EAS443:3:44:289:1848#0/1  
aa\_a^`^Y`\_`^`\_]\_\_^\_\_\_\_^]`^`^`]]\_Z^]XVWX]  
@HWI-EAS443:3:44:343:272#0/1  
GGCTGGCATTACCACAGCATTGTTTACAGAATCAATCTCT  
+HWI-EAS443:3:44:343:272#0/1  
aa]]`^`aa]¥`a^S[¥¥][Y¥Y\_\_L]a\_\_TR][Q]^`  
@HWI-EAS443:3:44:406:710#0/1  
CTTTCCTTGAAGAATCCCACCCAGGAATATTTGAGAATTC  
+HWI-EAS443:3:44:406:710#0/1  
abbabbbbbbbba`bbba`bbbbbaaaaaabbaa`  
@HWI-EAS443:3:44:412:1584#0/1  
CTTTCCTTGAAGAATCCCACCCAGGAATATTTGAGAATTC  
+HWI-EAS443:3:44:412:1584#0/1  
KYaaaTaa\_¥bbb\_\_b`aMa\_ab\_b\_aba`aaaaaba`]  
@HWI-EAS443:3:44:467:235#0/1  
GGGGCAATGAAAAGAAGGCCAAACTGGCAAATGTTGTGAG  
+HWI-EAS443:3:44:467:235#0/1  
aa¥NU^\_aaa]¥aa¥a^\_\_^^\_Z`\_\_Z^a^`\_X^aZ`X\_  
@HWI-EAS443:3:44:469:894#0/1  
TGCCAGGGTCGACTTCGAGTCTGGACGGATCAAGAAAGAA  
+HWI-EAS443:3:44:469:894#0/1  
a^baa`bb]aba^aaXXUZPRa`\_`\_\_¥UZ``X^a\_\_`^  
@HWI-EAS443:3:44:501:830#0/1  
GGTATGCACAAACAGACTGTGTTCTAGAGGCTATGGCTTT

+HWI-EAS443:3:44:501:830#0/1  
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GTGGACGACAAACACAGAGACTGGTGCACCCCAGCTCAAC  
+HWI-EAS443:3:44:510:64#0/1  
aX`a)`a`¥]`]]Y¥^^¥^UMYY^UUUPS¥¥¥USSTTTWT  
@HWI-EAS443:3:44:566:445#0/1  
AATTGAAGAGCCATCTGGGCCGTTGCAGGTCCAAGTCAT  
+HWI-EAS443:3:44:566:445#0/1  
W\_a]Zb\_Za^^`YYW]`]ab¥¥`W\_X\_PSYa^a`Q[R¥  
@HWI-EAS443:3:44:607:1191#0/1  
GACTGACAAAGGGATTACAGGGATTACAAAGTCTTCCCCG  
+HWI-EAS443:3:44:607:1191#0/1  
a\_\_)`^^aa`^`\_a`baaa`[]X`[\_`\_aXW]`Y[ZZ`  
@HWI-EAS443:3:44:646:1289#0/1  
TAAGTTTGGTCTCCATCTGATACTAATAGCCCTACCTTT  
+HWI-EAS443:3:44:646:1289#0/1  
a`a^aba`^`a`\_`a\_\_\_[\_\_\_^\_a\_\_`^\_\_^\_^]Z^^Z  
@HWI-EAS443:3:44:647:680#0/1  
TGCCAGGGTCGACTTCGAGTCTGGACGGATCAAGAAAGAA  
+HWI-EAS443:3:44:647:680#0/1  
`abaZ\_^\_WH\_Ubbaa\_W\_OHRXUNTWWW]OU\_¥RUN\_R  
@HWI-EAS443:3:44:68:309#0/1  
GAGCATTTGCGAAAAGCTTGAACAGTCTGGGCTCCCAGTA  
+HWI-EAS443:3:44:68:309#0/1  
a`aaaababba`aa`baabaaa`aaaaaaXbaa`^`\_`W^  
@HWI-EAS443:3:44:737:654#0/1  
GTCCTCCATCTGATACTAATAGCCCTACCTTTGATTGGGT  
+HWI-EAS443:3:44:737:654#0/1  
\_Ya`^``)`¥^a¥X]X[\_\_\_^`^^\_Z[TZ[\_^^^Z^^^YVP  
@HWI-EAS443:3:44:753:242#0/1  
ATAGATTGCAGCACTTCTGGTACATCTGTTTCATCCTCAAG  
+HWI-EAS443:3:44:753:242#0/1  
`b`¥aaaa\_¥Yaaa^Raa]Ua¥\_[\_\_`]\_[`]UUZY^\_^  
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AGAAATCAACCGGCAGCAACTGCATTGGCCAACACCATAG  
+HWI-EAS443:3:44:813:319#0/1  
aaaWR[`\_¥[R\_]\_]\_UWVXW[WWWQPUPWYRTUSVUUX  
@HWI-EAS443:3:44:823:114#0/1  
GCCTTCTTTTCATTGCCCCCTACTGGGAGCCCAGACTGTT  
+HWI-EAS443:3:44:823:114#0/1  
aZ`\_[XXZZ^¥P^UMPVPUZJR¥¥¥¥S¥USGTWWRWUPT  
@HWI-EAS443:3:44:845:1277#0/1  
CAGGGTCGACTTCGAGTCTGGACGGATCAAGAAAGAAGAG  
+HWI-EAS443:3:44:845:1277#0/1  
a`aabUba`^aaaa`\_^\_aa``\_aa]\_``\_aa^[^\_\_^`\_  
@HWI-EAS443:3:44:846:193#0/1  
GGGCAATGAAAAGAAGGCCAAACTGGCAAATGTTGTGAGA  
+HWI-EAS443:3:44:846:193#0/1  
aaaa¥aaa\_a][`\_\_`^`^`\_`\_`^`[^`^]`Y¥^X`¥¥X



@HWI-EAS443:3:44:866:955#0/1  
GTTGATTCCCACTAACTTGCAGGTCCTGTAGAATCTGTCC  
+HWI-EAS443:3:44:866:955#0/1  
\_`aa\_baa`\_`aaa\_\_\_aaa`\_]X^a`^`^`\_V^`^UUZ  
@HWI-EAS443:3:44:883:1864#0/1  
GGCTATCTAATAAGAGCACTGACATTAAATACGATGACCA  
+HWI-EAS443:3:44:883:1864#0/1  
¥ba^\_bbba¥^abaaS`\_P\_YSaabaab¥a]`¥H\_`FO]  
@HWI-EAS443:3:44:897:283#0/1  
CAAAATCGTCGGATGATTGGAGCCCATCCCACCAGTATAT  
+HWI-EAS443:3:44:897:283#0/1  
a\_\_\_\_\_aa\_[^^aa]\_\_\_\_\_a`\_]a\_\_VVX^^X¥^TW\_SX^]Y  
@HWI-EAS443:3:44:947:754#0/1  
AAGATGGTCACGCAAAGAACAATAGGGAAGAAAAACAAA  
+HWI-EAS443:3:44:947:754#0/1  
aa`]¥ba]`^\_b¥ZY`^Z`UZ]T`a```a^W[^X`^¥WU  
@HWI-EAS443:3:44:953:1082#0/1  
GTCGACTTCGAGTCTGGACGGATCAAGAAAGAAGAGTTCT  
+HWI-EAS443:3:44:953:1082#0/1  
^`b`a\_`a`\_ab`abaaaaa\_a`a`aaaa`aa`aaYa\_`  
@HWI-EAS443:3:45:1004:1548#0/1  
AAAAATTCCAGCGCAAATGCCATAAGCACCACATTCCT  
+HWI-EAS443:3:45:1004:1548#0/1  
``Z\_YZ¥X^[\_RVHXXZN¥`[U`\_``[]YJM[S`\_XWG[[  
@HWI-EAS443:3:45:1013:604#0/1  
GGATGGGCTCCAATCATCCGACGATTTTGCTCTCATAGTG  
+HWI-EAS443:3:45:1013:604#0/1  
aa][a`]^`^^U]`a\_`\_\_\_a]U`¥¥\_`Z\_U\_Z^¥\_`^¥^¥\_  
@HWI-EAS443:3:45:1020:79#0/1  
GATTGATGCCAGGGTCGACTTCGAGTCTGGACGGATCAAG  
+HWI-EAS443:3:45:1020:79#0/1  
a^`aa`a¥[Z[^W]\_[Y]^V`^^XU^`\_ZW\_^SWUZ[^  
@HWI-EAS443:3:45:1035:1241#0/1  
CAACCGGCAGCAACTGCATTGGCCAACCCATAGAAGTCT  
+HWI-EAS443:3:45:1035:1241#0/1  
aX^¥¥U¥`[\_WZ\_W]Q]^aaa]¥TR¥ZX¥¥TRZZQ¥^TXY  
@HWI-EAS443:3:45:1082:744#0/1  
TGTAAGTCTGTCCACTCCTGCTTGTATTCCCTCATGGTT  
+HWI-EAS443:3:45:1082:744#0/1  
aaaab`aaaba]a\_\_Y\_\_\_`a^`aa\_`a\_Y\_¥`\_\_\_\_\_aZa  
@HWI-EAS443:3:45:1084:1964#0/1  
TAGATCGAATGGCCTAACAGCTAATGAGTCAGGAAGGCTA  
+HWI-EAS443:3:45:1084:1964#0/1  
`ba\_V¥bab`^aQP`aaWa`\_`a`]aSXY]\_\_\_\_\_[]\_[^\_  
@HWI-EAS443:3:45:1085:267#0/1  
ACGGCCCAGATGGCTCTTCAATTGTTTCATCAAAGACTACA  
+HWI-EAS443:3:45:1085:267#0/1  
a`aa[\_Xab¥X\_]ZZ]aa\_WQXYaWY¥YQU]YZa^GY¥WZ  
@HWI-EAS443:3:45:1093:296#0/1  
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+HWI-EAS443:3:45:1093:296#0/1  
aabbbaabaaa]a`ab`a]aabaaa^`a\_`aa[``\_a¥  
@HWI-EAS443:3:45:1101:933#0/1  
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+HWI-EAS443:3:45:1101:933#0/1  
ab\_\_Sab`\_ba[ab]bb[[babaTY`aa`ba[[[aUbb  
@HWI-EAS443:3:45:1112:351#0/1  
ATGGTTTGGTGCATTCACTATGAGAGCAAATCGTCGGAT  
+HWI-EAS443:3:45:1112:351#0/1  
\_W¥babba\_Q\_`bb`\_X]ZR\_a^^V)`Z[S`a^bZG]`[^  
@HWI-EAS443:3:45:1117:1138#0/1  
TGCCATGCTCAGGATGTTTCTGAACCACTCGGGTTGATTT  
+HWI-EAS443:3:45:1117:1138#0/1  
Y\_`a\_`a`a`bb`ab`\_¥^b`^`aa`]SYa\_YY\_]U\_a`  
@HWI-EAS443:3:45:1144:410#0/1  
GATTAGAGGTTTCGTATACTTTGTTGAACTTTAGCTAGG  
+HWI-EAS443:3:45:1144:410#0/1  
aaW\_\_[aWRQH[``VTLLW\_YTTHVa[^\_Z¥WNXX]]\_]  
@HWI-EAS443:3:45:1156:926#0/1  
GAAGATGGTCACGCAAAGAACAATAGGGAAGAAAAACAA  
+HWI-EAS443:3:45:1156:926#0/1  
aa`a`aa`^[^]`¥¥[^]¥^Z^^^`^VOUZU]\_[UG[¥  
@HWI-EAS443:3:45:1169:761#0/1  
CAGGAATGTGTAGTTGCAACGGCATCATATCCATGCTTT  
+HWI-EAS443:3:45:1169:761#0/1  
abab\_abb\_b\_`ba`a`^aaaa`a\_aaaaba`])`aa\_a^a  
@HWI-EAS443:3:45:1195:808#0/1  
GGAGCATTTCGAAAAGCTTGAACAGTCTGGGCTCCCAGT  
+HWI-EAS443:3:45:1195:808#0/1  
a`T^])\_\_a\_V\_\_ZXR\_Y`\_`^^TY\_UZ^^[W[U[W[R^V  
@HWI-EAS443:3:45:1234:529#0/1  
TTGCCATTTTGTGGAGAACATTATGGGTGCCATGCTCAG  
+HWI-EAS443:3:45:1234:529#0/1  
abba`abbabbaabab`^^aaaaabaa\_a^^`aa]\_¥\_a  
@HWI-EAS443:3:45:1284:817#0/1  
CAATTGAAGAGCCATCTGGGCCGTTGCAGGTCCAAGGTCA  
+HWI-EAS443:3:45:1284:817#0/1  
¥bbb`^abaab`^^ba`[^a`^`aaaa\_`][W`aSRG  
@HWI-EAS443:3:45:1297:486#0/1  
AAGAGACAACATGACCAAGAAGATGGTCACGCAAAGAACA  
+HWI-EAS443:3:45:1297:486#0/1  
aaabab\_a\_\_a\_ba[^\_aaaa\_\_aaY`a\_a^\_\_aZ]^`  
@HWI-EAS443:3:45:1374:1029#0/1  
GAACATTATGGGTGCCATGCTCAGGATGTTTCTGAACCAC  
+HWI-EAS443:3:45:1374:1029#0/1  
aYaa`aaa`a\_a¥a]\_¥\_\_\_\_^\_\_`])\_`^`^^^XW¥X  
@HWI-EAS443:3:45:1388:1048#0/1  
GTTCTGTTTACTGTGTCCATGGTGTATCCTGTTCTGTTT  
+HWI-EAS443:3:45:1388:1048#0/1  
aab`aaaaaa\_aa\_a````aaaVa]``^^aa^\_Z^^^[\_]

@HWI-EAS443:3:45:1418:476#0/1  
GCCTCTCTGCATCTTTGGTCATCGTATTTAATGTCAGT  
+HWI-EAS443:3:45:1418:476#0/1  
aa`aaaaaaba\_a\_aaaa]\_`a\_a]\_aaa`\_`a]¥`\_`T  
@HWI-EAS443:3:45:1436:1642#0/1  
GTGCTTATGGCATTGCGCTGGAATTTTTAGGAAAAGTA  
+HWI-EAS443:3:45:1436:1642#0/1  
aY]LT`^`aaX\_X]T]Y]WY]`a[RLY^\_\_[^`ZZWX\_LV  
@HWI-EAS443:3:45:1445:1440#0/1  
AAAAGAAATACACCAAGACAATATACTGGTGGGATGGGCT  
+HWI-EAS443:3:45:1445:1440#0/1  
`\_a`[^ZaVSZaa`aaZ\_Y]\_`a^0`ZZR\_\_\_\_[X¥`ZHJ  
@HWI-EAS443:3:45:147:1551#0/1  
AAGATGCAGAGAGAGGCAAGTTAAAAAGAAGGGCTATCGC  
+HWI-EAS443:3:45:147:1551#0/1  
abaa\_baabaab`a]`a``\_\_aa\_\_^[^`]^`^`a`V¥`^`^`  
@HWI-EAS443:3:45:1489:1314#0/1  
AGGTAGTGGTCCATCAATCGGTTGAGCTGGGGTGCACCA  
+HWI-EAS443:3:45:1489:1314#0/1  
ab`\_ba`ab`]aaaaaa`aaa\_ba]^V`UZ\_XQ¥V^U^`^`  
@HWI-EAS443:3:45:1524:72#0/1  
AGACAACATGACCAAGAAGATGGTCACGCAAAGAACAATA  
+HWI-EAS443:3:45:1524:72#0/1  
`^aa`ba^aaaa`aa`aa\_]aa\_\_\_Ya^]a]¥Z]Z\_]`  
@HWI-EAS443:3:45:1552:1446#0/1  
AAAAAACAAGACTGAATAAGAGAGGCTATCTAATAAGAG  
+HWI-EAS443:3:45:1552:1446#0/1  
^a^¥bbababa``baaabaaaaaa\_aaa^UV^¥¥Y[\_XWU  
@HWI-EAS443:3:45:1566:162#0/1  
GCTGGAATTTTTAGGAAAAGTAGAGTCGGATTGACATCCA  
+HWI-EAS443:3:45:1566:162#0/1  
aaaba`^aabaaaa``^aY`a^`]a`]]\_]`]]XY]]`  
@HWI-EAS443:3:45:1586:1798#0/1  
CTAGGGAAAGGGTACATGTTTCGAGAGTAAAAGAATGAAGA  
+HWI-EAS443:3:45:1586:1798#0/1  
abbbbaabbbbaa\_b`bbb\_a\_aaaab\_aaaaaaaaaaa`a`  
@HWI-EAS443:3:45:1609:689#0/1  
ATGGAATCAATGAACAAAGAGGAAATAGAGATAACAACCC  
+HWI-EAS443:3:45:1609:689#0/1  
`^aM[aba\_aaa`\_^^[V^VXU]\_a``a\_a\_a]a\_\_^]]`  
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GATTGATGCCAGGGTCGACTTCGAGTCTGGACGGATCAAG  
+HWI-EAS443:3:45:1616:690#0/1  
aX`\_`Y[\_[\_Z\_ZYXLWW[U\_WUMQMPLTRVSPSWWUJVMF  
@HWI-EAS443:3:45:1664:1188#0/1  
CAGATTAGAGGTTTCGTATACTTTGTTGAAACTTTAGCTA  
+HWI-EAS443:3:45:1664:1188#0/1  
a]b\_bbbbaba\_b``baaaa]ba`\_aa\_\_`a^\_a`]W`\_`  
@HWI-EAS443:3:45:1680:892#0/1  
GGTGTGTTCTGTTTACTGTGTCCATGGTGTATCCTGTTCC

+HWI-EAS443:3:45:1680:892#0/1  
ab\_a\_a\_b`aa\_aa\_aaa^a\_\_aaa]`^¥^`^^^a`^\_\_^  
@HWI-EAS443:3:45:1681:1316#0/1  
GAGTATTGGTGTCTGTTTACTGTGTCCATGGTGTATC  
+HWI-EAS443:3:45:1681:1316#0/1  
`]`\_abba¥¥b^`^aba`\_abaa`]`a]a\_\_aa`Z`\_a\_\_  
@HWI-EAS443:3:45:1683:603#0/1  
TGGTGTGTTCTGTTTACTGTGTCCATGGTGTATCCTGTTC  
+HWI-EAS443:3:45:1683:603#0/1  
aba^b\_b\_aZa]`a`a[`a\_a\_\_Y[aaaUaU¥ZZ[^¥[\_W  
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ACCAAACCATGAGGGAATACAAGCAGGAGTGGACAGATTC  
+HWI-EAS443:3:45:1708:1899#0/1  
a\_\_a`\_^Y`^^`\_a\_\_\_Z\_\_W]¥\_UV\_^T^W^[YYWUWW\_W  
@HWI-EAS443:3:45:1728:1156#0/1  
TATTTTCTCAATTTTCTTCTTTGTTGATTCATTGAAGTAC  
+HWI-EAS443:3:45:1728:1156#0/1  
aabbababaaabbab\_aa\_baaaaa\_aa`a`a¥W\_]\_^  
@HWI-EAS443:3:45:1737:1757#0/1  
GGCAAGTTAAAAAGAAGGGCTATCGCAACACCTGGGATGC  
+HWI-EAS443:3:45:1737:1757#0/1  
]\_b`aaaaa¥a`a`aa`^babbaa^a[a`a`^aa\_\_a^`\_  
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CTGGGCCGTTGCAGGTCCAAGGTCATTGTTTATCATGTTG  
+HWI-EAS443:3:45:1769:1342#0/1  
abaaa`ab^aaaaab]X\_`a`\_`^^`^^`\_a\_\_¥\_\_^\_\_\_W  
@HWI-EAS443:3:45:1772:681#0/1  
GAGTAAATGAATCAGCTGACATGAGTATTGGAGTAACAGT  
+HWI-EAS443:3:45:1772:681#0/1  
\_[b`aaabb\_a`^abaaaaUa`aaaXaa[a^`\_`\_P`aY  
@HWI-EAS443:3:45:1777:1298#0/1  
CAATTGAAGAGCCATCTGGGCCGTTGCAGGTCCAAGGTCA  
+HWI-EAS443:3:45:1777:1298#0/1  
abbabbbbbb\_aabaaababa`baaa\_aaa]\_aa`aaX¥^  
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AAGGGTACATGTTTCGAGAGTAAAAGAATGAAGATTCGAAC  
+HWI-EAS443:3:45:205:930#0/1  
aaaa^W`abaa\_a^`^^`\_aYaa`aaaa]a`\_\_aa\_\_\_`Z  
@HWI-EAS443:3:45:220:913#0/1  
CGATGACCAAAGATGCAGAGAGAGGCAAGTTAAAAAGAAG  
+HWI-EAS443:3:45:220:913#0/1  
a\_]\_ababababaabbbbabaaabaa`\_a¥aaaaa\_aa`  
@HWI-EAS443:3:45:246:1364#0/1  
GCTGGGGTGCACCAGTCTCTGTGTTTGTCTGTCCTCACTTCC  
+HWI-EAS443:3:45:246:1364#0/1  
aa`a\_b\_V\_\_aa\_¥`\_aa\_aa[\_]aa^U^¥ZZ`U^Z[^^^\_  
@HWI-EAS443:3:45:26:314#0/1  
GAAGAATCCCACCCAGGAATATTTGAGAATTCATGCCTTG  
+HWI-EAS443:3:45:26:314#0/1  
aabbabab\_aa\_]`aaa\_\_aaaa`Waa\_aa`[aaa\_]`^^`

@HWI-EAS443:3:45:362:784#0/1  
AATGAACCAAGTGGGTATGCACAAACAGACTGTGTTCTAG  
+HWI-EAS443:3:45:362:784#0/1  
ababbaa]V\_`V\_]aMa]aQUG\_a[ `[\_^¥ZS]ZaY¥\_[  
@HWI-EAS443:3:45:386:1440#0/1  
CAGATCTTCATGATCTCAGAGAACTCTTCTTTCTTGATCC  
+HWI-EAS443:3:45:386:1440#0/1  
`][a\_ba[bbaa[a\_]N[ba[b\_babbaaa`aba`Y```  
@HWI-EAS443:3:45:395:1461#0/1  
GTTCTGTTTACTGTGTCCATGGTGTATCCTGTTCCCTGTTC  
+HWI-EAS443:3:45:395:1461#0/1  
a\_a¥aZ]aab\_aaXa\_aa`XZ\_`]aa^^\_a``^^\_`^\_`^  
@HWI-EAS443:3:45:400:851#0/1  
GGACGGATCAAGAAAGAAGAGTTCTCTGAGATCATGAAGA  
+HWI-EAS443:3:45:400:851#0/1  
abaaab`a\_bab`aaaabaaa[aaaa`aaaa`\_aaa`]a`  
@HWI-EAS443:3:45:414:1028#0/1  
TGGCTTGTGTTGAGAATAGAACGATTCCCTCTGGGAATCC  
+HWI-EAS443:3:45:414:1028#0/1  
a]TVabY¥`^a]]a¥`a`a¥`U`NU\_]a`U^\_QL[X`^^Z  
@HWI-EAS443:3:45:432:628#0/1  
GTTTGAGAACATTATGGGTGCCATGCTCAGGATGTTTCTG  
+HWI-EAS443:3:45:432:628#0/1  
a\_aabaaaa]^aaa`]U\_^a[Ua\_`\_]`^W\_QTQUU\_^[[T  
@HWI-EAS443:3:45:45:1091#0/1  
AAAAATTCCAGCGCAAATGCCATAAGCACCACATTCCCT  
+HWI-EAS443:3:45:45:1091#0/1  
`a`baZ^\_]\_XX]]WZXaY` `\_\_`^WP]]¥]Y]XRYV¥]  
@HWI-EAS443:3:45:506:603#0/1  
GTTCTGTTTACTGTGTCCATGGTGTATCCTGTTCCCTGTTC  
+HWI-EAS443:3:45:506:603#0/1  
aY¥Z[`\_a]¥\_^\_ZQ¥a`\_T[`V\_Y¥Z]Z^VX\_[Y[\_Y\_W  
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GAAACATCCTGAGCATGGCACCCATAATGTTCTCAAACAA  
+HWI-EAS443:3:45:513:1144#0/1  
a\_b\_aYb^`a¥]^`^a\_]b`b0a¥aaa`bY`Ob\_\_\_\_aWaa  
@HWI-EAS443:3:45:527:826#0/1  
TTCCCCTTTGGCTTGTGTTGAGAATAGAACGATTCCCTCTT  
+HWI-EAS443:3:45:527:826#0/1  
ab^V]abXa]aXb]ba[a`[H¥¥`]]a]YZY¥^[^^VG\_\_  
@HWI-EAS443:3:45:537:1139#0/1  
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+HWI-EAS443:3:45:537:1139#0/1  
a[UR`S`¥\_TVU\_VH[W[TWUX^[W¥P][QYX[Z]JJP[FP  
@HWI-EAS443:3:45:538:353#0/1  
AAAAATTCCAGCGCAAATGCCATAAGCACCACATTCCCT  
+HWI-EAS443:3:45:538:353#0/1  
aa]a\_a\_]`^a\_Z\_\_\_\_^`]\_]\_S^^\_`^^¥]0\_`]ZZWVZZ  
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CTTTCCTTGAAGAATCCCACCCAGGAATATTTGAGAATTC



@HWI-EAS443:3:45:758:1110#0/1  
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+HWI-EAS443:3:45:758:1110#0/1  
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@HWI-EAS443:3:45:783:1317#0/1  
CAAAGCTGGGTAGCTCCATGCTAAAATTAGCCACAAATCC  
+HWI-EAS443:3:45:783:1317#0/1  
abbbabbb\_`bbabbaaababaaaabaaaa`aaa`aaYY  
@HWI-EAS443:3:45:785:852#0/1  
TAGCCTCTTATTTCAGTCTTTGTTTTTCTTCCCTATTG  
+HWI-EAS443:3:45:785:852#0/1  
aX`a\_a`¥aba^aa\_\_`[^a`a]\_aa\_aaa`X[\_`^]\_`  
@HWI-EAS443:3:45:824:331#0/1  
GGGCTCCAATCATCCGACGATTTTGCTCTCATAGTGAATG  
+HWI-EAS443:3:45:824:331#0/1  
abbbba`aZaabaaaa`aaa`aabbaa`a\_\_`aX`\_`  
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CATGTTGTTCTTTATCACTGTTACTCCAATACTCATGTCA  
+HWI-EAS443:3:45:82:1510#0/1  
`¥^ZX`a^\_[ba]`bb^^\_HZ`R\_J\_a\_a^^Y`Z]]aa  
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GCCATGGTGTCTAGGGCCCGATTGATGCCAGGGTCGACT  
+HWI-EAS443:3:45:834:1232#0/1  
aa^T^PWTQX¥`¥\_a\_ZVV]PV¥Y]\_YXRU^YYLKZLFT  
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+HWI-EAS443:3:45:851:1211#0/1  
aabaaa`aaaa`Z[¥Za]a\_`]\_\_Z¥\_]`^X^\_a][U¥¥V^`  
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AAAAATTCCAGCGCAAATGCCATAAGCACCATTCCT  
+HWI-EAS443:3:45:861:1857#0/1  
aaaa\_aa¥¥`VU^\_\_ZZ`WXZ]^\_Z\_]\_VDWPX^BBBBB  
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TCTGGAGTAAATGAATCAGCTGACATGAGTATTGGAGTAA  
+HWI-EAS443:3:45:888:306#0/1  
a\_]ZPWF[^ZW[\_¥ZMOTWW^YSL[[N]SSQW`a¥M[OOU  
@HWI-EAS443:3:45:909:723#0/1  
GGTCCATCAATCGGGTTGAGCTGGGGTGCACCAGTCTCTG  
+HWI-EAS443:3:45:909:723#0/1  
aa`a]aaaXa``¥XT]aa¥ZS]S^¥a¥^MY]K]a¥Ua^`a  
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CACCAGTCTCTGTGTTTGTCTGCTCCACTTCCCTTTTCTGA  
+HWI-EAS443:3:45:917:240#0/1  
ababab`aaabb\_a^aaa]`a]\_^W^\_aa]]]\_a`a]\_^T  
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ATTTCTTTTGTCCAAGATTCAGTATCGAGACTCCCAAGAC  
+HWI-EAS443:3:45:924:1192#0/1  
a`baU`U¥^YY¥a¥bVZV]\_ZHV^[¥a]X]\_ZN^`[VTV  
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GGCTATTAGTATCAGATGGAGGACCAAACCTTATACAATAT

+HWI-EAS443:3:45:929:1419#0/1  
`b¥bbaabaabbbabaa`a^a`\_\_aaa\_aaaa`\_aaaa\_  
@HWI-EAS443:3:45:99:1205#0/1  
GTTCTTTATCACTGTTACTCCAATACTCATGTCAGCTGAT  
+HWI-EAS443:3:45:99:1205#0/1  
a\_]aaabaaaa`a`\_`^X`\_[Z`^^`^\_\_\_aaUX`YG[  
@HWI-EAS443:3:46:1001:977#0/1  
GGCAAGACTAGGGAAAGGTACATGTTTCGAGAGTAAAAGA  
+HWI-EAS443:3:46:1001:977#0/1  
¥\_^¥¥b[]\_babbXaaabaQX[S\_a¥aTb[a\_\_\_aaaa`\_  
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GGGATTCTTCAAGGAAAGCCATAGCCTCTAGAACACAGTC  
+HWI-EAS443:3:46:1010:728#0/1  
aaa[a`\_`^`XU`\_`¥[^]Z^\_a[¥\_TZ¥\_¥^]`^Y]^YY  
@HWI-EAS443:3:46:1054:293#0/1  
AGCCCTTCTTTTTAACTTGCCTCTCTGCATCTTTGGTC  
+HWI-EAS443:3:46:1054:293#0/1  
aabaaaa`aaaa\_`aa`a`\_a\_a\_`¥`\_`[\_^a]`a]WW  
@HWI-EAS443:3:46:1080:1170#0/1  
AGGGGGCAATGAAAAGAAGGCCAAACTGGCAAATGTTGTG  
+HWI-EAS443:3:46:1080:1170#0/1  
¥Y\_NS`aVabb`[]^`^`b]\_`a\_a`aa^a\_\_¥b\_a`]K  
@HWI-EAS443:3:46:1093:1663#0/1  
GAATGCACCAAACCATGAGGGAATACAAGCAGGAGTGGAC  
+HWI-EAS443:3:46:1093:1663#0/1  
^O[``^Y\_WZ^]YS¥``aa]]`^^¥¥^a¥\_a]S¥U^¥^X  
@HWI-EAS443:3:46:1127:194#0/1  
GGGATGGGCTCCAATCATCCGACGATTTTGCTCTCATAGT  
+HWI-EAS443:3:46:1127:194#0/1  
aaa[Ya`\_\_¥`\_\_\_¥[¥\_¥\_\_Z^WZW¥Z[P[¥W¥¥UW¥W  
@HWI-EAS443:3:46:1160:153#0/1  
GTAGGGGGCAATGAAAAGAAGGCCAAACTGGCAAATGTTG  
+HWI-EAS443:3:46:1160:153#0/1  
a\_aaaaaa`]``a\_^`Z[]U]\_[V]^XKX\_TL]]VW`WRW  
@HWI-EAS443:3:46:1169:48#0/1  
GAAGATGGTCACGCAAAGAACAATAGGGAAGAAAAAACAA  
+HWI-EAS443:3:46:1169:48#0/1  
\_[YbY]a`I]]abaX]X`\_\_\_S\_`X`aa^Pa\_a\_`^]L]^  
@HWI-EAS443:3:46:1227:1020#0/1  
GGTAGTGGTCCATCAATCGGGTTGAGCTGGGGTGCACCAG  
+HWI-EAS443:3:46:1227:1020#0/1  
a`\_aa` `[XZa]]Z\_]¥`\_]Y` `^a^\_P^¥aUY^]VU^¥  
@HWI-EAS443:3:46:1228:1001#0/1  
CAATCATCCGACGATTTTGCTCTCATAGTGAATGCACCAA  
+HWI-EAS443:3:46:1228:1001#0/1  
\_bbaababbabaa`ab\_bbaba]a\_Ya`]aaabaaaaaaa  
@HWI-EAS443:3:46:1267:228#0/1  
CATTACATCCTTTAAGAAATCTATTAGCCTTCCTGACTCA  
+HWI-EAS443:3:46:1267:228#0/1  
abbbbbbbbaabbbbaababbaababaaba`bba`abaabaa



@HWI-EAS443:3:46:1293:1584#0/1  
TCTGTTTACTGTGCCATGGTGTATCCTGTTCCCTGTTCCA  
+HWI-EAS443:3:46:1293:1584#0/1  
aaaa\_aa`Ya^¥a\_`a```aVa]\_^^^``¥^^]\_]^^^U  
@HWI-EAS443:3:46:131:266#0/1  
GTGGTCCATCAATCGGGTTGAGCTGGGGTGCACCAGTCTC  
+HWI-EAS443:3:46:131:266#0/1  
aaaa^^aaa]aa```a`¥a][\_Y^TY\_a¥`^^^Y^`YV^  
@HWI-EAS443:3:46:1445:376#0/1  
CAAAGATGCAGAGAGAGGCAAGTTAAAAAGAAGGGCTATC  
+HWI-EAS443:3:46:1445:376#0/1  
a`bbaab\_\_b]ab\_\_bb`^\_]b`aaba``ba``^]`ab`Q  
@HWI-EAS443:3:46:1447:580#0/1  
GAGTAAATGAATCAGCTGACATGAGTATTGGAGTAACAGT  
+HWI-EAS443:3:46:1447:580#0/1  
aaa\_abaaa`a`\_¥^`ba]Y`a`a[`aaa`]aX\_\_^]\_Y  
@HWI-EAS443:3:46:1459:65#0/1  
ATCTGATACTAATAGCCCTACCTTTGATTGGGTTTGATCC  
+HWI-EAS443:3:46:1459:65#0/1  
a]baa`aa`ba¥``\_`^]`a^`a`adW```^`Z\_\_`^`\_`¥  
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+HWI-EAS443:3:46:1487:1111#0/1  
S\_Q\_a]a]¥Yb[b\_TXb\_Ua\_bPb\_0QbbaXXX^Z`a]PP  
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CTACAGATACACATATAGGTGCCATAGGGGAGACACACAA  
+HWI-EAS443:3:46:1489:1935#0/1  
aTXR¥¥RZ]R`^X]WXMqF\_R]¥XU[\_R]\_aRF[M^U]Y  
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GCTGTGGTAATGCCAGCCCATGGTCCAGCCAAAAGCATGG  
+HWI-EAS443:3:46:1495:611#0/1  
a`aa[`\_Za`\_\_^¥¥¥¥^[\_¥^^VWWWURTYU[VT[V[W  
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GCTTGAACAGTCTGGGCTCCCAGTAGGGGGCAATGAAAAG  
+HWI-EAS443:3:46:14:516#0/1  
^\_\_`Y\_``^a^``¥^\_\_]YZZ[a^[X¥Z^¥[^Y`a¥[[¥V  
@HWI-EAS443:3:46:1501:289#0/1  
CAGCTTTGGAGTGTCTGGAGTAAATGAATCAGCTGACATG  
+HWI-EAS443:3:46:1501:289#0/1  
aababbbbVaaba`a\_a`a`aa`\_``\_]¥]\_`\_^^^  
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CAACGGCCCAGATGGCTCTTCAATTGTTTCATCAAAGACTA  
+HWI-EAS443:3:46:151:1473#0/1  
`b\_aa``]Ubab^a¥[aa^`abaaaaI¥`]X]HaS`0[R  
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CCCAGTGATTGTGAAAGAAATCTCTGTGTCTTGTGAATTA  
+HWI-EAS443:3:46:1549:144#0/1  
ab¥Q\_SW0¥RaXXHY`aYV[XSUa^aT¥S^ZZa\_\_SSYXX  
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^X`\_`aaaaaa[\_[aaa^a\_aa^¥PVJZ\_^]\_\_^`WDR  
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ATCTGATACTAATAGCCCTACCTTTGATTGGGTTTGATCC  
+HWI-EAS443:3:46:418:780#0/1  
¥Z^^`¥]X[RG[¥¥\_a`]^ZZ¥YU\_¥XH[]YHLXb\_S[S  
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GGTGTGTTCTGTTTACTGTGTCCATGGTGTATCCTGTTCC  
+HWI-EAS443:3:46:433:137#0/1  
aZVaS[[`¥`¥[¥]Z\_\_]S][YZ[^\_`W`XQTSST[RWWW  
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ATCTCTATTTCTCTTTGTTTCATTGATTCCATTACATCCT  
+HWI-EAS443:3:46:46:708#0/1  
a`bbba`abababbababbaabaababaaaba`\_¥`^`^`  
@HWI-EAS443:3:46:471:821#0/1  
ATGGTGTCTAGGGCCCGATTGATGCCAGGGTCGACTTCG  
+HWI-EAS443:3:46:471:821#0/1  
\_]ZQITP\_]ba```Z\_^V`]W]W`¥^^]¥WQ] []Y¥¥¥U  
@HWI-EAS443:3:46:537:1550#0/1  
GTCCTCCATCTGATACTAATAGCCCTACCTTTGATTGGGT  
+HWI-EAS443:3:46:537:1550#0/1  
ZVQ\_Y¥a[`Sab`YZGYaa`¥[\_`^Z]\_`^^]`][L  
@HWI-EAS443:3:46:584:1966#0/1  
TCCCCGATAATCATCATCCATTAGCTCCCATTTTAAGCAG  
+HWI-EAS443:3:46:584:1966#0/1  
¥aabaaa]aJ`[\_`^`[[Z`aa\_^\_\_^]`\_\_^aa\_\_¥\_`^`\_`  
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GGGCTATTAGTATCAGATGGAGGACCAAACCTTATACAATA  
+HWI-EAS443:3:46:585:1722#0/1  
a`X[Xa¥\_aZP\_]PG`¥`\_`[\_`WJMY\_[P]]^^\_S]^\_W  
@HWI-EAS443:3:46:598:715#0/1  
GAGATTTCTTTCAATCACTGGGGACAACACTAAGTGGA  
+HWI-EAS443:3:46:598:715#0/1  
```abbb¥bbb`a`aba\_ababaa¥a\_````a\_^aUb`\_  
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GTGGGATTCTTCAAGGAAAGCCATAGCCTCTAGAACACAG
+HWI-EAS443:3:46:603:2020#0/1
``Z^a^aa`aa```bb^b¥[S[^]`a¥__TG^UaR^^GZY
@HWI-EAS443:3:46:603:219#0/1
AGCTAATGGATGATGATTATCGGGGAAGACTTTGTAATCC
+HWI-EAS443:3:46:603:219#0/1
a[Z`]W]aaYV[R]_Y¥X¥[P____[RR]]^^V¥NY`^`¥Y
@HWI-EAS443:3:46:604:1431#0/1
GCTCCAATCATCCGACGATTTTGTCTCATAGTGAATGCA
+HWI-EAS443:3:46:604:1431#0/1
]I]¥`_Z_a]a`Sa]_`Y]^aa^XZa`¥`[VZXX____]SY
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+HWI-EAS443:3:46:626:1160#0/1
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@HWI-EAS443:3:46:634:203#0/1
GCCCTTCTTTTAACTTGCCTCTCTGCATCTTTGGTCA
+HWI-EAS443:3:46:634:203#0/1
abbbbabbbbaaaabb`abbaa`aa]`a`aaaa`a]_
@HWI-EAS443:3:46:665:1031#0/1
CAGTAGGGGGCAATGAAAAGAAGCCAACTGGCAAATGT
+HWI-EAS443:3:46:665:1031#0/1
aabaabbbbaaa]baaaaaaaaaaaaaa`_`a`a]aaa]
@HWI-EAS443:3:46:68:186#0/1
GTCTCCCCTATGGCACCTATATGTGTATCTGTAGTCTTTG
+HWI-EAS443:3:46:68:186#0/1
a]`^^aa`a`aa]^_S]]_`aa^`[¥`^aaW^`SX[``Y
@HWI-EAS443:3:46:68:1972#0/1
ATGGGCTCCAATCATCCGACGATTTTGCTCTCATAGTGAA
+HWI-EAS443:3:46:68:1972#0/1
aaWPY`a]`b_```[`¥a[a`¥`aa`a¥Q¥]]_Y]^[_^V
@HWI-EAS443:3:46:708:591#0/1
GTCCTCCATCTGATACTAATAGCCCTACCTTTGATTGGGT
+HWI-EAS443:3:46:708:591#0/1
`aaaabbab`baaaa_aaaaa___a`__a`aaaa`aa]
@HWI-EAS443:3:46:739:801#0/1
CAAAGCTGGGTAGCTCCATGCTAAAATTAGCCACAAATCC
+HWI-EAS443:3:46:739:801#0/1
aaaaaaabab_`aaaa[V`_b_a_aaaa_`a^a_a_[`P
@HWI-EAS443:3:46:758:546#0/1
CCCCAGTGATTGTGAAAGAAATCTCTGTGTCTTGTGAATT
+HWI-EAS443:3:46:758:546#0/1
abbbb`abaabb¥aaa^baaaa`aba_a`aa¥`WOZ]`_
@HWI-EAS443:3:46:764:479#0/1
CAGATACACATATAGGTGCCATAGGGGAGACACACAAATT
+HWI-EAS443:3:46:764:479#0/1
aababaabaabba_aa_baaabaaaaaa`_a`aaaa`aa
@HWI-EAS443:3:46:769:91#0/1
GGTGTGTTCTGTTTACTGTGTCCATGGTGTATCCTGTTCC
+HWI-EAS443:3:46:769:91#0/1
aa¥b^b_`¥`_`a¥]`a_aV_`¥`_aU¥¥¥¥XW^_¥¥WV
@HWI-EAS443:3:46:773:658#0/1
TTTGTGATTCAATTGAAGTACTTCAGGTCAATGCTTGCTA
+HWI-EAS443:3:46:773:658#0/1
aab`_a`_`aa`_a^_a¥^¥a_[^`¥ZWV[`^Z___Z_^
@HWI-EAS443:3:46:786:226#0/1
CCCGGATTGATGCCAGGGTCGACTTCGAGTCTGGACGGAT
+HWI-EAS443:3:46:786:226#0/1
^aa`_W¥bb`ZY[aabb_FXb^```]_H_IW^b`TR`^RR
@HWI-EAS443:3:46:797:1593#0/1
CGGATTGATGCCAGGGTCGACTTCGAGTCTGGACGGATCA
+HWI-EAS443:3:46:797:1593#0/1
`bbbbbbbaa`bbaUa_¥baaaabbaaaaaa`aa¥a`¥_¥`

@HWI-EAS443:3:46:833:1093#0/1
CTGGAGTAAATGAATCAGCTGACATGAGTATTGGAGTAAC
+HWI-EAS443:3:46:833:1093#0/1
abbaaa_bbbabaaaaaaaaaaaa`aa_a^aaaaa]`^aa]
@HWI-EAS443:3:46:84:1234#0/1
CAACTGCATTGGCCAACACCATAGAAGTCTTTAGATCGAA
+HWI-EAS443:3:46:84:1234#0/1
`UR_]Z_¥X^WY`OQXX¥T0]]¥PLU_]NY]]Ya¥[QSP_
@HWI-EAS443:3:46:867:690#0/1
CTCTTCTAATAGATGGCACAGCATCACTGAGTCCTGGGAT
+HWI-EAS443:3:46:867:690#0/1
^]¥[^^¥YW`ab[[Ybbb]]^W]XHHOb`a]HR``aXaZ^
@HWI-EAS443:3:46:892:844#0/1
CTGGTATTTGTGTTCGAATCTTCATTCTTTACTCTCGAA
+HWI-EAS443:3:46:892:844#0/1
aabaP[abaa_bababaababbaabbabbbbabbaaaaa
@HWI-EAS443:3:46:901:1559#0/1
TAAAAATTCCAGCGCAAATGCCATAAGCACCATTTCCC
+HWI-EAS443:3:46:901:1559#0/1
aaba``aaaaaaaa`aa`a_]`a`a`_`a^_a^``^ZYV
@HWI-EAS443:3:46:901:584#0/1
CAGGGTCGACTTCGAGTCTGGACGGATCAAGAAAGAAGAG
+HWI-EAS443:3:46:901:584#0/1
abbbbabbaaabaabaabbbaabbaa`aaa`abaaa_aa
@HWI-EAS443:3:46:929:773#0/1
TGCCGTTGCAACTACACATTCCTGGATTCCCAAGAGGAAT
+HWI-EAS443:3:46:929:773#0/1
abaab^a`aaa`aaWaaaa``_]a^a`_a__^____^_
@HWI-EAS443:3:46:980:589#0/1
AAGGGATTGAGGGATTACAAAGTCTTCCCGATAATCAT
+HWI-EAS443:3:46:980:589#0/1
aaa`XKU^``__^`¥a____^`UV_]`]WY_Z_ZZ^UW_
@HWI-EAS443:3:46:992:47#0/1
GGACCATGGGCTGGCATTACCACAGCATTGTTTACAGAAT
+HWI-EAS443:3:46:992:47#0/1
aaa`¥`a`a`_abb¥_aa`¥``_]a¥¥`^a`aZXU^aYZ^
@HWI-EAS443:3:47:1000:397#0/1
AAAAATTCCAGCGCAAATGCCATAAGCACCATTTCCCT
+HWI-EAS443:3:47:1000:397#0/1
aaaa_`^^^`_a^a_¥`_`XW^_]X`ZZ^____^XXV]
@HWI-EAS443:3:47:1019:215#0/1
ATTTTGTGTTGAGAACATTATGGGTGCCATGCTCAGGATGT
+HWI-EAS443:3:47:1019:215#0/1
aabbababbbabaaaabbaabb]`_Y`aa_WYZaZP¥_]`
@HWI-EAS443:3:47:1062:1424#0/1
GTTTATTATCCTCAGGTAGTGGTCCATCAATCGGGTTGAG
+HWI-EAS443:3:47:1062:1424#0/1
`H]¥^¥_V____`VN_XNZ_V_`PNRVVUUSMDVUUUSWWW
@HWI-EAS443:3:47:1086:1436#0/1
GCTCCAATCATCCGACGATTTTGCTCTCATAGTGAATGCA

+HWI-EAS443:3:47:1086:1436#0/1
aba_`aaaaaa_`aa^aa`a`aa^`__]_____^a`_`^^_
@HWI-EAS443:3:47:1114:777#0/1
CAATTGTTTCATCAAAGACTACAGATACACATATAGGTGCC
+HWI-EAS443:3:47:1114:777#0/1
ab_bbbb_`]ZRabbb`]`aab_b_¥^aaaa^_¥^WaWL
@HWI-EAS443:3:47:112:439#0/1
CTACACATTCTGGATTCCCAAGAGGAATCGTTCTATTCT
+HWI-EAS443:3:47:112:439#0/1
abbZ`bbbbba¥babb^RZ`a`]```]`¥¥]V]abbY^
@HWI-EAS443:3:47:1157:1212#0/1
GCCGTTGCAACTACACATTCTGGATTCCCAAGAGGAATC
+HWI-EAS443:3:47:1157:1212#0/1
aabaaba^bYbb_aa_aa``]a[`aaaa^`__`a`_P
@HWI-EAS443:3:47:1247:826#0/1
AAGAATCCCCTTTGGCTTGTGTTGAGAATAGAACGATTC
+HWI-EAS443:3:47:1247:826#0/1
a`a]Xa___R[¥¥]`a`Z¥Z_Y`_YYY]]^XZ^XZXXUN
@HWI-EAS443:3:47:1249:808#0/1
CTGGGCTCCCAGTAGGGGCAATGAAAAGAAGGCCAAACT
+HWI-EAS443:3:47:1249:808#0/1
X_bbbbWQ_^S[SS]ba[]0[a_b[`__a^V_a`QTR_``
@HWI-EAS443:3:47:1275:166#0/1
GTGGGATGGGCTCCAATCATCCGACGATTTTGCTCTCATA
+HWI-EAS443:3:47:1275:166#0/1
^PaWO^a¥X¥UVVL]¥VZ_HGL_PN¥MURUU]QLPRRTGN
@HWI-EAS443:3:47:1301:117#0/1
GAGTAAATGAATCAGCTGACATGAGTATTGGAGTAACAGT
+HWI-EAS443:3:47:1301:117#0/1
a```ababbaaa]`a`_b`_`aa]a]_aaaa[a^^[[Z_W
@HWI-EAS443:3:47:1306:380#0/1
GGTTTGGTGCATTCATGAGAGCAAATCGTCCGATGA
+HWI-EAS443:3:47:1306:380#0/1
aa`abaWb_`a`_a¥baba^a`Z`_^`_T_¥Z`¥`__Z
@HWI-EAS443:3:47:1316:1311#0/1
GAACATTATGGGTGCCATGCTCAGGATGTTTCTGAACCAC
+HWI-EAS443:3:47:1316:1311#0/1
[U[HYbbabaaTUaaI`]b`]0^¥VTYJN`_R^YYVLSY
@HWI-EAS443:3:47:1320:625#0/1
GAGATAACAACCCACTTTCAAAGAAAAAGGAGTAAGAG
+HWI-EAS443:3:47:1320:625#0/1
`b^a`aaaaa``[`aaa^`aa__a`_Yaa`a`a]_`a`a
@HWI-EAS443:3:47:1324:12#0/1
AGCCTCTCTTATTCAGTCTTTGTTTTTTCTCCCTATTGT
+HWI-EAS443:3:47:1324:12#0/1
X_``a`baa_U_b```^bbbbbbb``aaaa¥`_babaa`
@HWI-EAS443:3:47:1366:919#0/1
GTCTGGACGGATCAAGAAAGAAGAGTTCTCTGAGATCATG
+HWI-EAS443:3:47:1366:919#0/1
_T_Z¥]RT[TT[W[V[WYV^XTYSYRXX_Y¥]¥XZZNX]^

@HWI-EAS443:3:47:1367:1035#0/1
AAACCATGAGGGAATACAAGCAGGAGTGGACAGATTCTAC
+HWI-EAS443:3:47:1367:1035#0/1
]]_ [WWY^`¥`Z_] [F[^aZ]¥WQ_¥^a]KX_N¥VNXTR
@HWI-EAS443:3:47:138:292#0/1
TGGTGTGTTCTGTTTACTGTGTCCATGGTGTATCCTGTTC
+HWI-EAS443:3:47:138:292#0/1
abaZb`b_a`aa_aa`_aa^`__Y__`_Ta[___[Z`_^Z
@HWI-EAS443:3:47:1405:1082#0/1
TGAAGAATCCCACCCAGGAATATTTGAGAATTCATGCCTT
+HWI-EAS443:3:47:1405:1082#0/1
abb¥abb`b`abaaa`a`__a_`a_a_a`U__^`_]Y[_`_`
@HWI-EAS443:3:47:1468:1240#0/1
GGTAATGCCAGCCCATGGTCCAGCCAAAAGCATGGAATAT
+HWI-EAS443:3:47:1468:1240#0/1
ab`aaabaaaa^Z^aaa¥_Z_aZ[`a____[^`^`_]U^^`_
@HWI-EAS443:3:47:146:1909#0/1
CAGATCTTCATGATCTCAGAGAACTCTTCTTTCTTGATCC
+HWI-EAS443:3:47:146:1909#0/1
aa_V`bbba`aZWZa[]aaa^`_Za]aVV_a`aYa_a_¥_
@HWI-EAS443:3:47:1481:832#0/1
GGGCAATGAAAAGAAGGCCAAACTGGCAAATGTTGTGAGA
+HWI-EAS443:3:47:1481:832#0/1
aab`abbbaa`^^`^^`a[a`^`_]_a^^`_`^]aZa^aY
@HWI-EAS443:3:47:1483:1674#0/1
GTGGGTTGTTATCTCTATTTCTCTTTGTTTCATTGATTCC
+HWI-EAS443:3:47:1483:1674#0/1
a¥^Z¥R¥ba¥FZ`^^`¥`a`^SYX[aa`Y__RZ__^U]¥WM
@HWI-EAS443:3:47:1503:312#0/1
GGTTGTTATCTCTATTTCTCTTTGTTTCATTGATTCCATT
+HWI-EAS443:3:47:1503:312#0/1
`b^aaab`aaa[a¥aaa__`_]`a_`X¥X[^____^]¥^_
@HWI-EAS443:3:47:153:1421#0/1
TGCTGTGGTAATGCCAGCCCATGGTCCAGCCAAAAGCATG
+HWI-EAS443:3:47:153:1421#0/1
aaaa]ab¥_a_¥[_Yaaaa[_]_¥__^`a_Za_]¥¥XZ^
@HWI-EAS443:3:47:1549:1527#0/1
GAGATTTCTTTACAATCACTGGGGACAACACTAAGTGGA
+HWI-EAS443:3:47:1549:1527#0/1
aaa`aaab`baa`a_`a_`a`Y`_[[[[^`a_W]X_^Z
@HWI-EAS443:3:47:1556:120#0/1
GTGGGATGGGCTCCAATCATCCGACGATTTTGCTCTCATA
+HWI-EAS443:3:47:1556:120#0/1
aX^[]^`_`aT_QUW¥YY^UJ[VW_VVYVUTTTWWWVWXX
@HWI-EAS443:3:47:1556:1242#0/1
GCAGACTTCAGGAATGTGAAGATTCCGTATATTGTATAAG
+HWI-EAS443:3:47:1556:1242#0/1
a`aa`^`aa_aa¥¥a_UaZ__¥^_Y[_W]_^____WWY¥P^
@HWI-EAS443:3:47:1580:184#0/1
GATTGATGCCAGGGTCGACTTCGAGTCTGGACGGATCAAG

+HWI-EAS443:3:47:1580:184#0/1
a`]'`b_aa[a]abb^Y]a__`']ZaZ[_aaHS``_S¥¥__
@HWI-EAS443:3:47:1580:1875#0/1
AATAGATGGCACAGCATCACTGAGTCCTGGGATGATGATG
+HWI-EAS443:3:47:1580:1875#0/1
ab`aaa[a`aa`a`aa`W`]__a`Q^['`¥ZZ]^¥Y^_]]
@HWI-EAS443:3:47:1594:635#0/1
TGTTGTTCTTTATCACTGTTACTCCAATACTCATGTCAGC
+HWI-EAS443:3:47:1594:635#0/1
['`a`a¥a]aaaa^_U_a``¥U[_T^^^`Y¥]^ [WZ¥_]Q
@HWI-EAS443:3:47:1606:1585#0/1
CCTGGGATGCAGATTAGAGTTTCGTATACTTTGTTGAAA
+HWI-EAS443:3:47:1606:1585#0/1
aba`````_baaa¥a^aaR`_¥WYXV¥^]SRFY`a`^Z¥Y][
@HWI-EAS443:3:47:1637:1407#0/1
AAAAATTCCAGCGCAAATGCCATAAGCACCCACATTCCT
+HWI-EAS443:3:47:1637:1407#0/1
abaa`a`¥__a¥a_a^_a_¥W^_]__^]a_R]_^X¥XZZ
@HWI-EAS443:3:47:1646:1533#0/1
ATATTCCTGGGTGGGATTCTTCAAGGAAAGCCATAGCCTC
+HWI-EAS443:3:47:1646:1533#0/1
abaaa_ab`aa[a`a]a`_a^`_`S^^V]OY_____QU^X
@HWI-EAS443:3:47:1676:550#0/1
TCTAGGGCCCGGATTGATGCCAGGGTCGACTTCGAGTCTG
+HWI-EAS443:3:47:1676:550#0/1
aa``abaa`_ba]_]`_TY`_Z^QXZZTV]^]VY[`
@HWI-EAS443:3:47:1683:174#0/1
GAAGATTCCTATATTGTATAAGTTTGGTCCTCCATCTGA
+HWI-EAS443:3:47:1683:174#0/1
`abbabbaaaaababab`aa`^a_aa``^¥X^`¥`^Y` [Y
@HWI-EAS443:3:47:1749:1679#0/1
GGCCTCTTCTAATAGATGGCACAGCATCACTGAGTCCTGG
+HWI-EAS443:3:47:1749:1679#0/1
a`U_Z¥`bb`aXZ`]____]SV_aa^RS[GJY` `[MFFTZV
@HWI-EAS443:3:47:20:234#0/1
CAGATCTTCATGATCTCAGAGAACTTTCTTTCTTGATCC
+HWI-EAS443:3:47:20:234#0/1
`a`WW¥abbbaaa`_^aaZa¥Z__ZXV¥[`_¥]__W]¥¥¥
@HWI-EAS443:3:47:217:1748#0/1
GTTTCATATAGGAGACCGTTGGAATTTCTAGCATGGTGGA
+HWI-EAS443:3:47:217:1748#0/1
_a`J`a[``^^Za_Zaa_aa[_X[`b`[^`Ma_OFKL^U_
@HWI-EAS443:3:47:251:1447#0/1
ACCATGGACACAGTAAACAGAACACACCAATACTCAGAAA
+HWI-EAS443:3:47:251:1447#0/1
_Ub`X`Z`bb__¥RWTa^¥¥ba``_aa]bab^]`Vabba_
@HWI-EAS443:3:47:295:806#0/1
GACTGACAAAGGGATTACAGGGATTACAAAGTCTTCCCCG
+HWI-EAS443:3:47:295:806#0/1
``a`baabbbb_baa``aaaa`[a^``aa`WT`^X`¥Wa

@HWI-EAS443:3:47:308:382#0/1
ATGGTGTCTAGGGCCCGGATTGATGCCAGGGTCGACTTCG
+HWI-EAS443:3:47:308:382#0/1
_AQ_abaU`[\`abb_abbab`aaab]`a`aaXaaa¥^X]]
@HWI-EAS443:3:47:312:888#0/1
AAAAATTCCAGCGCAAATGCCATAAGCACCATTCCT
+HWI-EAS443:3:47:312:888#0/1
a^`]UZa^aY`[ZR_[U[[_ZZ_`^ZYWaUZ^]_`YUZU`
@HWI-EAS443:3:47:326:382#0/1
CACTAACTTGCAGGTCCTGTAGAATCTGTCCACTCCTGCT
+HWI-EAS443:3:47:326:382#0/1
abbbbbabbaba`ba_abb_`bbaaaaa_`^aa`_a__a
@HWI-EAS443:3:47:341:85#0/1
GAGTAAATGAATCAGCTGACATGAGTATTGGAGTAACAGT
+HWI-EAS443:3:47:341:85#0/1
aab`abbbba`a_`b_ab__]aa^a^`aaa`]a]]`]^aZ`
@HWI-EAS443:3:47:343:1420#0/1
ATAAGTTTGGTCTCCATCTGATACTAATAGCCCTACCTT
+HWI-EAS443:3:47:343:1420#0/1
aaY_`[ababa`a`]]`aa`a¥^aa`aaa`]^a_¥0¥_
@HWI-EAS443:3:47:349:387#0/1
CTTGTGTTGAGAATAGAACGATTCCTCTTGGGAATCCAGG
+HWI-EAS443:3:47:349:387#0/1
Z_`a_a_]X^¥bbaa_abbab_`Zabbb`b`babZ__b`
@HWI-EAS443:3:47:354:1119#0/1
ATCTAATAAGAGCACTGACATTAATACGATGACCAAAGA
+HWI-EAS443:3:47:354:1119#0/1
`bababbbbab`aabaa`aabaaba`aaaaXN¥a`^_
@HWI-EAS443:3:47:373:293#0/1
GCCATTTTGTGGAGAACATTATGGGTGCCATGCTCAGGA
+HWI-EAS443:3:47:373:293#0/1
abbbbbbbbabbbabaa`baaab`a¥aa`aa_`^_a`_
@HWI-EAS443:3:47:390:1222#0/1
GGATTCTTCAAGGAAAGCCATAGCCTCTAGAACACAGTCT
+HWI-EAS443:3:47:390:1222#0/1
a``_a`^`^`_VW¥¥`__`^`QYY_`¥__]H^`¥¥_[VY]
@HWI-EAS443:3:47:402:1309#0/1
AATTTCTCGAATAGATTGCAGCACTTCTGGTACATCTGTT
+HWI-EAS443:3:47:402:1309#0/1
^a_a_Z`ab_^X[_a`ab]]Z]_`^`_a^]OZ[RT]Y¥T]_
@HWI-EAS443:3:47:462:1241#0/1
CTCCAATCATCCGACGATTTTGCTCTCATAGTGAATGCAC
+HWI-EAS443:3:47:462:1241#0/1
abbaaababb`bbaaaaabaaaaaa_aaaa¥a^`a[^¥
@HWI-EAS443:3:47:491:551#0/1
ATCTAATAAGAGCACTGACATTAATACGATGACCAAAGA
+HWI-EAS443:3:47:491:551#0/1
_`a`¥Y__]aa`]`__a_]Z`aaa^aa_ba`a_Z__]`a^
@HWI-EAS443:3:47:538:430#0/1
GCCATGCTCAGGATGTTTCTGAACCACTCGGGTTGATTTC

+HWI-EAS443:3:47:538:430#0/1
ab`bbbbbbbaa`^aabbaba_b`^a^aaa`^a^S_aaR
@HWI-EAS443:3:47:550:1997#0/1
AGTGCTCTTATTAGATAGCCTCTCTTATTTCAGTCTTTGTT
+HWI-EAS443:3:47:550:1997#0/1
]b]`abab^bb`_a_aa^]`aaa_ab`_a_Wa__`aaa¥a
@HWI-EAS443:3:47:564:1420#0/1
TGAAGAATCCCACCCAGGAATATTTGAGAATTCATGCCTT
+HWI-EAS443:3:47:564:1420#0/1
]ba_[ba`b^X`aaa_]`^a_a^a`_a`_]_aXX`_aXZ]_
@HWI-EAS443:3:47:695:546#0/1
GAGCCATCTGGCCGTTGCAGTCCAAGTCATTGTTTAT
+HWI-EAS443:3:47:695:546#0/1
aabaaaa]abaa`^^`aa__`_^___^a`Y`_a_a]_a^`
@HWI-EAS443:3:47:698:408#0/1
ATTGATGCCAGGGTCGACTTCGAGTCTGGACGGATCAAGA
+HWI-EAS443:3:47:698:408#0/1
aaa]aa^aYRYa^_]P^_^]__`U]_aaXYaaJ^M]^WV
@HWI-EAS443:3:47:720:822#0/1
CTCCCATTTTAAGCAGACTTCAGGAATGTGAAGATTCCGT
+HWI-EAS443:3:47:720:822#0/1
Z]^`bbb`_`a`^^`aaa^a_¥¥_ab`^a¥`a^aba`__`]
@HWI-EAS443:3:47:723:298#0/1
AGGCTATGGCTTTCCTTGAAGAATCCCACCCAGGAATATT
+HWI-EAS443:3:47:723:298#0/1
aaaaab_aaaaaa`aa`a`_`_]a^]_]`YaaW^__¥`
@HWI-EAS443:3:47:725:1433#0/1
ATTTCTTTTGTCCAAGATTTCAGTATCGAGACTCCCAAGAC
+HWI-EAS443:3:47:725:1433#0/1
¥abbbbbbbbab^ba`aabaabaaaa_Z_a]`^a_a`_aS
@HWI-EAS443:3:47:72:1505#0/1
CTTGACCTGCAACGGCCAGATGGCTCTTCAATTGTTCA
+HWI-EAS443:3:47:72:1505#0/1
a`^^`a`^_WZ_]_^`a`^`¥[_ZXEWQZ`_T]^SYTYX¥`
@HWI-EAS443:3:47:730:1969#0/1
CCATGGTGTCTAGGGCCCGATTGATGCCAGGGTCGACTT
+HWI-EAS443:3:47:730:1969#0/1
T[_`_WYO_QYT¥b¥MWaTbbaZa]T¥b]WTYW^HRaaa`Q
@HWI-EAS443:3:47:732:422#0/1
CAATTGAAGAGCCATCTGGCCGTTGCAGTCCAAGGTCA
+HWI-EAS443:3:47:732:422#0/1
ab`bbbbbb`^^`ab`bbaaa_b`aba]aa`__aVa_Y_]_
@HWI-EAS443:3:47:749:926#0/1
ACGGATCAAGAAAGAAGAGTTCTCTGAGATCATGAAGATC
+HWI-EAS443:3:47:749:926#0/1
a]]^[[¥WVb_a`^[_`¥XOXJ]OV_]U[TKX]a^MUQ]G
@HWI-EAS443:3:47:769:940#0/1
TCCGACTCTACTTTTCCTAAAAATTCAGCGCAAAATGCC
+HWI-EAS443:3:47:769:940#0/1
aaaa__`_a__a`aaa`aaaa`Uaa`Y_a`^^`^^Va__Z

@HWI-EAS443:3:47:770:532#0/1
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+HWI-EAS443:3:47:770:532#0/1
]X__^bbabbaaaaa¥a_aa__a__a`]a]WV__¥_a[^_
@HWI-EAS443:3:47:77:186#0/1
GTGGTAATGCCAGCCCATGGTCCAGCCAAAAGCATGGAAT
+HWI-EAS443:3:47:77:186#0/1
a_a¥L¥a¥]`_^¥¥]^YV]UPZWZNTXX_UVSRVSS[VWU
@HWI-EAS443:3:47:79:518#0/1
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+HWI-EAS443:3:47:79:518#0/1
abb`aaaab`aaa`aaaaaaa`a_a[a`a`a`a[¥`a_]`_
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GGACCATGGGCTGGCATTACCACAGCATTGTTTACAGAAT
+HWI-EAS443:3:47:863:1130#0/1
aba`aa`_a`aaaaaaa__a^_a`^`^`^`_aa^^_a`^`
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CAAAGAGGAAATAGAGATAACAACCCACTTTCAAAGAAAA
+HWI-EAS443:3:47:863:701#0/1
a`_¥ba`_babababb`_^aa^]aaaaa^`^¥b`a`_
@HWI-EAS443:3:47:902:578#0/1
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+HWI-EAS443:3:47:902:578#0/1
abbbb_a^abbabb]aa`aaa`^baa^`aa`_`_baa]X
@HWI-EAS443:3:47:914:575#0/1
GACGGATCAAGAAAGAAGAGTTCTCTGAGATCATGAAGAT
+HWI-EAS443:3:47:914:575#0/1
a`a]^V`_aab`^`^`^`]Ya_Va]aaaa_a^_X____¥^]^
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+HWI-EAS443:3:47:930:312#0/1
[bab`ba`ab]T¥aV]¥`aa`]YY`__a^bUaa`X``[HU
@HWI-EAS443:3:47:942:1077#0/1
GGGTGGGATTCTTCAAGGAAAGCCATAGCCTCTAGAACAC
+HWI-EAS443:3:47:942:1077#0/1
abaUba^X]^ba[] [a^Z¥a`_`_`_`_¥`_V__^Z[_^W
@HWI-EAS443:3:47:969:848#0/1
CAAACACAGAGACTGGTGCACCCAGCTCAACCCGATTGA
+HWI-EAS443:3:47:969:848#0/1
abbbbaababbaaaaa^aaa___[_a`_`_aa¥`_a`_`a`_
@HWI-EAS443:3:47:982:195#0/1
GTTGAGAATAGAACGATTCTTCTTGGGAATCCAGGAATGT
+HWI-EAS443:3:47:982:195#0/1
a`]Y¥^LP¥ZWXT[]TOXSXXURXTVWSUTQVWZWPVXTX
@HWI-EAS443:3:47:988:1399#0/1
TGAAGAATCCCACCCAGGAATATTTGAGAATTCATGCCTT
+HWI-EAS443:3:47:988:1399#0/1
`a`_`[]F][Y`V`_¥]¥Pa_¥^a`_¥¥a`[[_a_aY^`Z
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GGTGTCTAGGGCCCGATTGATGCCAGGGTCTGACTTCGAG

+HWI-EAS443:3:48:1002:971#0/1
a^Sa`aaa`a]¥]¥aaZaaa`_`^^^_aW^`¥^_YU^¥a
@HWI-EAS443:3:48:1028:668#0/1
CCCACCCAGGAATATTTGAGAATTCATGCCTTGAAACAAT
+HWI-EAS443:3:48:1028:668#0/1
a^``aba]Z_^Uaaaa_`a``baa`_aa_ab`_]`a_bY[
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GGTGTCTAGGGCCCGGATTGATGCCAGGGTCGACTTCGAG
+HWI-EAS443:3:48:1054:1259#0/1
`¥P_UVXXZ^a_P`a^NZXHMxXG_QNXUSTYUPXBBBB
@HWI-EAS443:3:48:1070:1178#0/1
TCTCTGTGTTTGTCTCCACTTTCCCTTTTCTGAGTATTG
+HWI-EAS443:3:48:1070:1178#0/1
`]¥^aa^]R]b]XXY[XXQRZ^aX^_X`_^_P[WP^KOY_W
@HWI-EAS443:3:48:1114:876#0/1
GAACAATTGAAGAGCCATCTGGGCCGTTGCAGGTCCAAGG
+HWI-EAS443:3:48:1114:876#0/1
`ba_abab_bbbbb^aaa`aaa``abS`aa¥aaX`_WYb]
@HWI-EAS443:3:48:1143:1589#0/1
AACTTGCAGTCTGTAGAATCTGTCCACTCCTGCTTGTA
+HWI-EAS443:3:48:1143:1589#0/1
a^¥¥V^`a[a[a[¥`^`_a][Va_] [U_X]Y][QV[_ [TV
@HWI-EAS443:3:48:1184:1081#0/1
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+HWI-EAS443:3:48:1184:1081#0/1
abbba`bbbbbaabbabbbabbbYbbbabaabbbaa`ba
@HWI-EAS443:3:48:1192:129#0/1
CATATCCATGCTTTTGGCTGGACCATGGGCTGGCATTAC
+HWI-EAS443:3:48:1192:129#0/1
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@HWI-EAS443:3:48:119:1811#0/1
ATTGGAGCCCATCCCACCAGTATATTGTCTTGGTGTATTT
+HWI-EAS443:3:48:119:1811#0/1
]_bba__`a^bb`_aaaa^¥`abab][[aaa¥a^a[]a``
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TAAACAATGACCTTGGACCTGCAACGGCCAGATGGCTCT
+HWI-EAS443:3:48:11:618#0/1
aabbab`_`aaaba`_aaaaaaaa__aa[^_^_ZZ¥S^Z[_
@HWI-EAS443:3:48:1289:730#0/1
GTTCTGTTTACTGTGTCCATGGTGTATCCTGTTCTGTTTC
+HWI-EAS443:3:48:1289:730#0/1
a]`_`aUa`^`^`aY_X_]____]U^X^^^¥^]Y]YX]YUYU
@HWI-EAS443:3:48:1290:224#0/1
GTCCTCCATCTGATACTAATAGCCCTACCTTTGATTGGGT
+HWI-EAS443:3:48:1290:224#0/1
`Ybab[MbabaaRS_`b¥W¥`_]`T`W`_`_]Pa`_^U¥
@HWI-EAS443:3:48:1292:490#0/1
TCCTCCATCTGATACTAATAGCCCTACCTTTGATTGGGT
+HWI-EAS443:3:48:1292:490#0/1
aa^__Y`aW^`^bZ`baa^aa``_a___aaab_¥Z_]P[Z

@HWI-EAS443:3:48:1307:1054#0/1
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+HWI-EAS443:3:48:1307:1054#0/1
_WZ`][WZRTWQWZ]Z^`^RZS_ZPY[ZXYSYSZGSU
@HWI-EAS443:3:48:1337:122#0/1
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+HWI-EAS443:3:48:1337:122#0/1
aaab`a`aba`][aaaba`aaa`[a`a]S`_aZ__^a
@HWI-EAS443:3:48:1339:593#0/1
CTAAAGACTTCTATGGTGTGGCCAATGCAGTTGCTGCCG
+HWI-EAS443:3:48:1339:593#0/1
Z^W`_T^XaZ]`_][Z]_`TYY_V]VT_Y[_XZ^DZ`
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GGCTAATTTTAGCATGGAGCTACCCAGCTTTGGAGTGTCT
+HWI-EAS443:3:48:1349:164#0/1
aaaaaababaa`aaa_a`___^^^a[aaaa]aYa[W_
@HWI-EAS443:3:48:1353:512#0/1
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+HWI-EAS443:3:48:1353:512#0/1
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+HWI-EAS443:3:48:1360:949#0/1
[QWN^TX_]_T`_ZW_]^Y]YZHYZW]XIGYZH^XJU
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+HWI-EAS443:3:48:1364:665#0/1
abbbaab_abaababaZa`aaVaZ`aa]N_a[[^`aaZYV
@HWI-EAS443:3:48:1386:974#0/1
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+HWI-EAS443:3:48:1386:974#0/1
aaa_abbbba`bbaaaa`aaaZ`_a^aabZ^`aaa`a
@HWI-EAS443:3:48:1444:1295#0/1
TTTTGTTTGAGAACATTATGGGTGCCATGCTCAGGATGTT
+HWI-EAS443:3:48:1444:1295#0/1
aa`aa_aaaaba__aaaaa_ZZ`^]`_]WXW`[WY]^
@HWI-EAS443:3:48:1508:629#0/1
GTCAGTGCTCTTATTAGATAGCCTCTCTTATTCAGTCTTT
+HWI-EAS443:3:48:1508:629#0/1
aW_]aP^Z[_a`a_Z]aY[VTUX`Y`S[ZVZ_XUZNT]^
@HWI-EAS443:3:48:1558:316#0/1
GTCCTCATCTGATACTAATAGCCCTACCTTTGATTGGGT
+HWI-EAS443:3:48:1558:316#0/1
aba`ab`bbaba_aa`baaaaaa[^`__aaa]__`_a`V
@HWI-EAS443:3:48:1683:1388#0/1
CAATTGAAGAGCCATCTGGGCCGTTGCAGGTCCAAGGTCA
+HWI-EAS443:3:48:1683:1388#0/1
`bbbbaaaaaaba_a`aaaU`aa_aZa]aZaXa`X_^
@HWI-EAS443:3:48:1720:1606#0/1
TGAACAAAGAGGAAATAGAGATAACAACCCACTTCAAAG

+HWI-EAS443:3:48:1720:1606#0/1
^`_b`_abaaba_aaaaaaaaaaaaaa_]aa_aa`_`_`_`
@HWI-EAS443:3:48:1726:250#0/1
AAAGAATGAAGATTCGAACACAAATACCAGCAGAAATGCT
+HWI-EAS443:3:48:1726:250#0/1
aaaa]aaa`a`_a`_aa`]`^a__`a_Y`a__`^^[^^S[
@HWI-EAS443:3:48:173:833#0/1
TTTTGTTTGAGAACATTATGGGTGCCATGCTCAGGATGTT
+HWI-EAS443:3:48:173:833#0/1
aabbaab]babaa^aaaaaaaa¥U^]]][a]¥NYa_^¥VY`
@HWI-EAS443:3:48:1762:1421#0/1
ATGGCACCCATAATGTTCTCAAACAAAATGGCAAGACTAG
+HWI-EAS443:3:48:1762:1421#0/1
aa``aaaaaaaa]`a[``a`_^YU]`_`^`_`_]`[^TLZ^a
@HWI-EAS443:3:48:1775:191#0/1
GGCTCTTCAATTGTTTCATCAAAGACTACAGATACACATAT
+HWI-EAS443:3:48:1775:191#0/1
aaaY¥a_VUR]`XL[RSYMS¥U`RTW[RW`UXXXWP[]]Z
@HWI-EAS443:3:48:223:444#0/1
GGGAGCTAATGGATGATGATTATCGGGGAAGACTTTGTAA
+HWI-EAS443:3:48:223:444#0/1
abaa`aaaabbbaabaabaaba`aaaa`````Za_a`_a_
@HWI-EAS443:3:48:235:825#0/1
CTCCATCTGATACTAATAGCCCTACCTTTGATTGGGTTTG
+HWI-EAS443:3:48:235:825#0/1
aaaaabab`Lb``baaabZL[bYTaaa]^S[a]aaX`ba
@HWI-EAS443:3:48:246:1315#0/1
CAGGTAGTGGTCCATCAATCGGGTTGAGCTGGGGTGCACC
+HWI-EAS443:3:48:246:1315#0/1
`a`_]`ba^T^¥ZW`[`b`a`a_]aa^aa^aYa`IZS`]V
@HWI-EAS443:3:48:26:103#0/1
TTTCATTGCCCCCTACTGGGAGCCCAGACTGTTCAAGCTT
+HWI-EAS443:3:48:26:103#0/1
aaaaaaaa`_`_`^^`_`^`[^[[W]`WU^[Z__^ZZW[W
@HWI-EAS443:3:48:32:1289#0/1
CACCAGTCTCTGTGTTTGTCTCCACTTTCCCTTTTCTGA
+HWI-EAS443:3:48:32:1289#0/1
aaaa_^_aaabb`a`bba`]_YaZPR^a`XX[_``^Q[GO
@HWI-EAS443:3:48:38:1711#0/1
GGTGTCTAGGGCCCGGATTGATGCCAGGGTCTGACTTCGAG
+HWI-EAS443:3:48:38:1711#0/1
a`¥aU[T_aV¥`P¥`_^]Y]X_]¥¥]¥^SU¥UVS_^UYTZ
@HWI-EAS443:3:48:39:347#0/1
CTGTCCACTCCTGCTTGTATTCCCTCATGGTTTGGTGCAT
+HWI-EAS443:3:48:39:347#0/1
aaa_[aaa_a^a_ababaaa^XX`aXa```]a`aa_a__^
@HWI-EAS443:3:48:41:1315#0/1
CTTGAGGATGAACAGATGTACCAGAAGTGCTGCAATCTAT
+HWI-EAS443:3:48:41:1315#0/1
abbbbaaaabbbbaa`aaa`_aab`_`ab_babb`bbbaaba

@HWI-EAS443:3:48:444:102#0/1
CTTTCCTTGAAGAATCCCACCCAGGAATATTTGAGAATTC
+HWI-EAS443:3:48:444:102#0/1
ab_SVQ¥X`[abb^]b]b_a`^_aa¥[aaaaaa_aSaaa^
@HWI-EAS443:3:48:445:671#0/1
TGCATTCACTATGAGAGCAAAATCGTCGGATGATTGGAGC
+HWI-EAS443:3:48:445:671#0/1
ab_P]aaUbb_a`P`Z^^`¥Ra`X`¥Y_¥`^`S`a]¥T¥Z
@HWI-EAS443:3:48:45:823#0/1
TTTTGTTTGAACAATTATGGGTGCCATGCTCAGGATGTT
+HWI-EAS443:3:48:45:823#0/1
aaaaa_aaa`aaa`aaa`aa__]^Z_^[]]¥¥_YZZZ^
@HWI-EAS443:3:48:461:970#0/1
GTGGGATTCTTCAAGGAAAGCCATAGCCTCTAGAACACAG
+HWI-EAS443:3:48:461:970#0/1
a^ba`Q[[]a[_Z]aa`¥X__N`¥`a]Ua]^PZUW[_X]
@HWI-EAS443:3:48:498:748#0/1
GATCCGTCCAGACTCGAAGTCGACCCTGGCATCAATCCGG
+HWI-EAS443:3:48:498:748#0/1
`aa_^¥]aa`a`^a_^a^P¥]^`^`X``X¥¥ZZ]PX[X]
@HWI-EAS443:3:48:506:925#0/1
TATTAGTATCAGATGGAGGACCAAATTATACAATATACG
+HWI-EAS443:3:48:506:925#0/1
ababaaaaaa]baaaaaaa__aa`Z[a]]]a____```a_a
@HWI-EAS443:3:48:507:29#0/1
ATCCCAAGAGGAATCGTTCTATTCTCAACACAAGCCAAA
+HWI-EAS443:3:48:507:29#0/1
a`^`^]a`b_bbaa_aba¥W`a_^aaa```_^]aXR¥W^
@HWI-EAS443:3:48:51:1233#0/1
AAAAATTCCAGCGCAAATGCCATAAGCACCATTCCTCCT
+HWI-EAS443:3:48:51:1233#0/1
`aaa¥a`_`_`_¥_aXU[a_^aa`]^Y`WU_]__YS¥X`
@HWI-EAS443:3:48:526:1087#0/1
GTTTATCATGTTGTTCTTTATCACTGTTACTCCAATACTC
+HWI-EAS443:3:48:526:1087#0/1
a[¥S]W[```SOU[]VZ`a_]RY[Q_QW^`¥TQ[YPQOVO
@HWI-EAS443:3:48:583:1019#0/1
GGTTGTTATCTCTATTTCTCTTTGTTTCATTGATTCCATT
+HWI-EAS443:3:48:583:1019#0/1
aa_aa_^J[X`_a`a`_`_]M]aV][^¥^_]XZ[^YPZ^O
@HWI-EAS443:3:48:590:975#0/1
CAATTGAAGAGCCATCTGGGCCGTTGCAGGTCCAAGGTCA
+HWI-EAS443:3:48:590:975#0/1
a`abbbba`aaabbaaaabaaa`aa``ba]a^a`aa]__
@HWI-EAS443:3:48:62:1413#0/1
GTTTCAAGGCATGAATTCTCAAATATTCCTGGGTGGGATT
+HWI-EAS443:3:48:62:1413#0/1
a^``__a`aaa__aa_a_a_]`_a^[Y``a^S`__Z^^
@HWI-EAS443:3:48:632:1229#0/1
CCCAGGAATATTTGAGAATTCATGCCTTGAACAATGGAA

+HWI-EAS443:3:48:632:1229#0/1
`^`bb`^¥a`bab_a_]aaa`b^`bab`Z`a`^`a`a`a
@HWI-EAS443:3:48:635:209#0/1
GGTCTTGGGAGTCTCGATACTGAATCTTGGACAAAAGAAA
+HWI-EAS443:3:48:635:209#0/1
a^U^aaaa`a^`[a^_ZT]`^`_[^``aZWZ^^^`¥_`^
@HWI-EAS443:3:48:653:2043#0/1
GCCTCTCTTATTTCAGTCTTTGTTTTTCTTCCCTATTGTT
+HWI-EAS443:3:48:653:2043#0/1
aZR_`¥a`^`aRNZVV¥a[]`[a``¥[TYQST¥^`_`X^
@HWI-EAS443:3:48:657:64#0/1
GAGAAAGATGATGACTAATTCACAAGACACAGAGATTCT
+HWI-EAS443:3:48:657:64#0/1
a_a`ab_ab`aa__`a_aa^]`__`_Z^^`a^a]`___Z`
@HWI-EAS443:3:48:659:174#0/1
GTTGATCCCACTAACTTGCAGGTCCTGTAGAATCTGTCC
+HWI-EAS443:3:48:659:174#0/1
a`aa_aa```_`a^`____`^`_`U]^`_`^]^`_`^]`]]^XXX
@HWI-EAS443:3:48:668:506#0/1
GGAGGCCATGGTGTCTAGGGCCCGATTGATGCCAGGGTC
+HWI-EAS443:3:48:668:506#0/1
a`_a^`aa`aa0]```_````¥Z`_```Z`a`¥`¥¥]¥¥`SS
@HWI-EAS443:3:48:678:619#0/1
ACTTCCCTTTTCTGAGTATTGGTGTGTTCTGTTTACTGT
+HWI-EAS443:3:48:678:619#0/1
aababa`abbbaa¥b¥^baa_]b_b`b`aaaaaa_aa]
@HWI-EAS443:3:48:67:353#0/1
GAAACATCCTGAGCATGGCACCATAATGTTCTCAAACAA
+HWI-EAS443:3:48:67:353#0/1
aaababaaaaaaaaab`aa`aaa`aaaa^`]`__`_a`_`a
@HWI-EAS443:3:48:710:1206#0/1
CTCCAATCATCCGACGATTTTGCTCTCATAGTGAATGCAC
+HWI-EAS443:3:48:710:1206#0/1
`ZTT^b_H_a`SZQW]T__WS[IZ^Y[Z[RWOWU`STLUJ
@HWI-EAS443:3:48:738:488#0/1
AAAAATTCCAGCGAAAATGCCATAAGCACCACATTCCCT
+HWI-EAS443:3:48:738:488#0/1
aaaa¥bb`aab]a_a``]a_a`aa`_`a`a`__`^aa_[W]_`
@HWI-EAS443:3:48:747:773#0/1
GACGGATCAAGAAAGAAGAGTTCTCTGAGATCATGAAGAT
+HWI-EAS443:3:48:747:773#0/1
aa[] []T_a`bW_a`_`a_aU`¥a_a`^a`_Z^a```]`__`
@HWI-EAS443:3:48:747:996#0/1
GGGTTGTTATCTCTATTTCTCTTTGTTTCATTGATTCCAT
+HWI-EAS443:3:48:747:996#0/1
abb`_`^a`_`aaaa^aaa`]a_aaaa_a`aa`_`aa`_¥¥]`
@HWI-EAS443:3:48:751:1766#0/1
AATGGAATCAATGAACAAAGAGGAAATAGAGATAACAACC
+HWI-EAS443:3:48:751:1766#0/1
a]b`aaaababbbaaaabaaa`ba_aaaaaa`aaaa_aa`^

@HWI-EAS443:3:48:767:1613#0/1
CAATGCAGTTGCTGCCGTTGATTTCTGTTTAATGTCCAA
+HWI-EAS443:3:48:767:1613#0/1
abaaa`ababaa` `a_bbSaYX`aaJ`Y_a_[a_YVP¥]^
@HWI-EAS443:3:48:779:990#0/1
CAGCTGACATGAGTATTGGAGTAACAGTGATAAAGAACAA
+HWI-EAS443:3:48:779:990#0/1
Y¥`^b^WZa____b_abb^¥RYa^XT_bXOZaa^^_] []^Q
@HWI-EAS443:3:48:795:1034#0/1
ACCATGAGGGAATACAAGCAGGAGTGGACAGATTCTACAG
+HWI-EAS443:3:48:795:1034#0/1
aa]aabaabbabaabbbaaaaaaaZbaa_aa^¥a`_`Q__
@HWI-EAS443:3:48:795:901#0/1
AGACAATATACTGGTGGGATGGGCTCCAATCATCCGACGA
+HWI-EAS443:3:48:795:901#0/1
]a¥` ``aaa`_^ZZKabb` `V]ZT^Q]]a`X`aXSU[P¥¥
@HWI-EAS443:3:48:856:1743#0/1
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+HWI-EAS443:3:48:856:1743#0/1
^`^`]SVZ_Q^S]VSXQMV¥R]Xa¥`a]PW`VT¥aXUWa_
@HWI-EAS443:3:48:87:920#0/1
CAGTAGGGGCAATGAAAAGAAGCCAAACTGGCAAATGT
+HWI-EAS443:3:48:87:920#0/1
aabaa`aabbbbbbabbabb`^abbbaabaaaaab`
@HWI-EAS443:3:48:882:914#0/1
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+HWI-EAS443:3:48:882:914#0/1
`_Yb`_[Y^_S_aa`¥VX[PQ^Z]URNWNRN_WY^S[]^R
@HWI-EAS443:3:48:890:78#0/1
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+HWI-EAS443:3:48:890:78#0/1
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@HWI-EAS443:3:48:911:1478#0/1
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+HWI-EAS443:3:48:911:1478#0/1
a]a`Y]a` `aa`a_aaa` `XV]^_]X]____VV`_]_^Y^N
@HWI-EAS443:3:48:956:55#0/1
GCCCCCTACTGGGAGCCAGACTGTTCAAGCTTTTCGCAA
+HWI-EAS443:3:48:956:55#0/1
aab_a`babbbbbb[b`ba`ba_bb`b`a`a`a`ba^a__`
@HWI-EAS443:3:48:963:1262#0/1
AATCAACCCGAGTGGTTCAGAAACATCCTGAGCATGGCAC
+HWI-EAS443:3:48:963:1262#0/1
abaaaaaa]a^_^aa`a`_XW_]_]_X_S[^[[^^]^XV
@HWI-EAS443:3:48:963:731#0/1
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+HWI-EAS443:3:48:963:731#0/1
a_baaab`bb`bbbbabaab`abaabaa`aa_`aba_`ab
@HWI-EAS443:3:48:991:1152#0/1
GATTGATGCCAGGGTCGACTTCGAGTCTGGACGGATCAAG

+HWI-EAS443:3:48:991:1152#0/1
a`aaaa`^`Z_a`[a``__`^`¥a`__`^XZ_aUUY¥V¥
@HWI-EAS443:3:49:1061:1215#0/1
GTGCCATGCTCAGGATGTTTCTGAACCACTCGGGTTGATT
+HWI-EAS443:3:49:1061:1215#0/1
a`ba`bbbbbaaba[a^ab`_b^^`QX_^a``a`_a^aa
@HWI-EAS443:3:49:1065:1187#0/1
GACTGGTGCACCCCAGCTCAACCCGATTGATGGACCACTA
+HWI-EAS443:3:49:1065:1187#0/1
aaVT_]¥[a``___`__`^]`^SSOQ_¥_[RJFMVW¥S¥V
@HWI-EAS443:3:49:1067:919#0/1
GGTTGTTATCTCTATTTCTCTTTGTTTCATTGATTCCATT
+HWI-EAS443:3:49:1067:919#0/1
abY¥`aa¥`XaaaV_b]`]aP]a¥UZbX`a`aaaaU[___a
@HWI-EAS443:3:49:106:776#0/1
CCTCCATCTGATACTAATAGCCCTACCTTTGATTGGGTTT
+HWI-EAS443:3:49:106:776#0/1
abab]babbbba`bbaa`^aaaaba_abb]b`¥¥T]a_
@HWI-EAS443:3:49:1074:239#0/1
CAAACCATGAGGAATACAAGCAGGAGTGGACAGATTCTA
+HWI-EAS443:3:49:1074:239#0/1
`ab`bbbbbbaabbbbaabbbabb]babaab`a_]aba`
@HWI-EAS443:3:49:1148:456#0/1
ATTTTGTGGAGAACATTATGGGTGCCATGCTCAGGATGT
+HWI-EAS443:3:49:1148:456#0/1
abbbbabbaabaabbbaba`a`a`_`_`a_a`aaa^_a_
@HWI-EAS443:3:49:1187:1247#0/1
CCCGGATTGATGCCAGGGTCGACTTCGAGTCTGGACGGAT
+HWI-EAS443:3:49:1187:1247#0/1
aaW^_NV]XH[]XZ^X_U]XNZR¥_URV^QULZ¥VHWZ]`
@HWI-EAS443:3:49:1205:322#0/1
GAGAGAGGCAAGTTAAAAAGAAGGGCTATCGCAACACCTG
+HWI-EAS443:3:49:1205:322#0/1
abbababbaaab`baaaaaaaaa`¥aa]^`_a`^a^Z_a
@HWI-EAS443:3:49:1205:574#0/1
CCTCTCTCTGCATCTTTGGTCATCGTATTTAATGTCAGTG
+HWI-EAS443:3:49:1205:574#0/1
Xbaabba``baaab`bbbb`]_babaabbb_b_XU`]`¥
@HWI-EAS443:3:49:1225:97#0/1
ATGGGCTCCAATCATCCGACGATTTTGCTCATAGTGAA
+HWI-EAS443:3:49:1225:97#0/1
aba`aabaabbbabbabbaab`babab]aaa__aaa[a_a
@HWI-EAS443:3:49:1236:678#0/1
TGGTCTCCATCTGATACTAATAGCCCTACCTTTGATTGG
+HWI-EAS443:3:49:1236:678#0/1
`ba`J_P]ab``_Y]^aYaaaa]aS`¥OZW¥V_Z¥¥R_[Y
@HWI-EAS443:3:49:1295:1806#0/1
ATCAAACCAATCAAAGGTAGGGCTATTAGTATCAGATGG
+HWI-EAS443:3:49:1295:1806#0/1
`aaa`]GT`V``HTaaa¥Z^`SWO`a`¥¥[Va`¥Z]]][[

@HWI-EAS443:3:49:1313:1010#0/1
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+HWI-EAS443:3:49:1313:1010#0/1
`[babbababbabababb`aab__^U_aaW]]_`a`aa^b
@HWI-EAS443:3:49:131:781#0/1
GAGATTTCTTTCACAATCACTGGGGACAACACTAAGTGGA
+HWI-EAS443:3:49:131:781#0/1
ab`Y`ababb`a_a^b`a`^ba`aYa`a_baaa]_Gab_
@HWI-EAS443:3:49:1361:1558#0/1
GACAAACACAGAGACTGGTGCACCCAGCTCAACCCGATT
+HWI-EAS443:3:49:1361:1558#0/1
aaYaab¥]aa__a^^a]`UY^__X]``]^^¥^^USW^W¥¥
@HWI-EAS443:3:49:1389:478#0/1
CTTGGGAGTCTCGATACTGAATCTTGGACAAAAGAAATAC
+HWI-EAS443:3:49:1389:478#0/1
`abbbbaabbabbbbbb_ba`baabbabb`babab_bbb^H
@HWI-EAS443:3:49:1407:1091#0/1
ACCAATACTCAGAAAAGGGAAAGTGGACGACAAACACAGA
+HWI-EAS443:3:49:1407:1091#0/1
a[_Saa`a_H`aa____a_¥_Ta¥^a__a_¥aa_W^__`^
@HWI-EAS443:3:49:1418:482#0/1
CTCTTCTTTCTTGATCCGTCAGACTCGAAGTCGACCCTG
+HWI-EAS443:3:49:1418:482#0/1
ab`bbbbbbabaabbbaaa_]_ba`YZaaaVX]`[¥Za[
@HWI-EAS443:3:49:1433:1449#0/1
AATCAACCGCAGCAACTGCATTGGCCAACACCATAGAAG
+HWI-EAS443:3:49:1433:1449#0/1
aabaaa_aa`aaa]_aWZ__`_____]^[Q_]^[Y]^W^Z`
@HWI-EAS443:3:49:1462:373#0/1
GTCCATCAATCGGGTTGAGCTGGGGTGCACCACTCTCTGT
+HWI-EAS443:3:49:1462:373#0/1
aa`aba]`aa`ba_]aaaa`_¥WZwa^a¥X^a¥¥_W`T
@HWI-EAS443:3:49:1492:1454#0/1
TTTCCTTGAAGAATCCCACCCAGGAATATTTGAGAATTCA
+HWI-EAS443:3:49:1492:1454#0/1
aaT_ababbaaabba_Vba_]ba]Xa]aaaa`aaaaaG_
@HWI-EAS443:3:49:1504:401#0/1
GGTGGGATGGGCTCCAATCATCCGACGATTTTGCTCTCAT
+HWI-EAS443:3:49:1504:401#0/1
`_PU¥OU[a```ZQ0]QUN¥J[] [X^aZ[PZQ]WUKX^ZV
@HWI-EAS443:3:49:1509:168#0/1
AATTGAAGAGCCATCTGGGCCGTTGCAGGTCCAAGGTCAT
+HWI-EAS443:3:49:1509:168#0/1
a`aabbb_aaaabaa_aX`_a¥^X_]`S¥¥`R_]W^Z`
@HWI-EAS443:3:49:1509:476#0/1
TGGGATGGGCTCCAATCATCCGACGATTTTGCTCTCATAG
+HWI-EAS443:3:49:1509:476#0/1
a_^`R_b¥L¥a_a]Z^`aa]RP]R]]Q]a`S¥^`Z^^`_
@HWI-EAS443:3:49:1525:666#0/1
CACCTATATGTGTATCTGTAGTCTTTGATGAACAATTGAA

+HWI-EAS443:3:49:1525:666#0/1
a`a_abbba`aaaa`aZ^b_]`baaaabaY`aaa`aa
@HWI-EAS443:3:49:153:869#0/1
GGACGACAAACACAGAGACTGGTGCACCCAGCTCAACCC
+HWI-EAS443:3:49:153:869#0/1
aba`aaa`bbaaab`ba`a`^V`^aY^Y_]`^]`^``_YX
@HWI-EAS443:3:49:1558:1272#0/1
TGGACGGATCAAGAAAGAAGAGTTCTCTGAGATCATGAAG
+HWI-EAS443:3:49:1558:1272#0/1
aa_¥b`]XW]`aa_¥___a^aW`Z_¥^``^¥_TYaa`¥a
@HWI-EAS443:3:49:1562:1765#0/1
AGGAAATAGAGATAACAACCCACTTTCAAAGAAAAAGGAG
+HWI-EAS443:3:49:1562:1765#0/1
Ya¥`[^bb`aUabbb`a_]_X^abba`aaY`_a`_aa_b
@HWI-EAS443:3:49:1564:329#0/1
GAGAGAGCAAGTTAAAAAGAAGGGCTATCGCAACACCTG
+HWI-EAS443:3:49:1564:329#0/1
a`aY]_aaaa`_a`a``^^]¥¥^```[¥¥Y^]M]¥^_]`
@HWI-EAS443:3:49:1567:615#0/1
CAGATACACATATAGGTGCCATAGGGGAGACACAAATT
+HWI-EAS443:3:49:1567:615#0/1
`baabbb_abbbbb_b_bbbbaZ`aababa`aab`abab`
@HWI-EAS443:3:49:1590:843#0/1
AAAGAATGAAGATTCGAACACAAATACCAGCAGAAATGCT
+HWI-EAS443:3:49:1590:843#0/1
abaaaa`b`¥a_aa^a^a^a__`````U__[_W_]^[Z[
@HWI-EAS443:3:49:1627:639#0/1
GAACTCTTCTTTCTTGATCCGTCAGACTCGAAGTCGACC
+HWI-EAS443:3:49:1627:639#0/1
T`T`^a¥VW_b_W`aa_¥TbaZ[W]QX^aa[_TZ]_¥Z
@HWI-EAS443:3:49:1647:1610#0/1
GATGATTATCGGGGAAGACTTTGTAATCCCCTGAATCCCT
+HWI-EAS443:3:49:1647:1610#0/1
aX_aaaaY`^^_W[VOVU]Z¥T^[^WXU^]_Z]XXWYW
@HWI-EAS443:3:49:1687:1708#0/1
GCCATGGTGTCTAGGGCCCGATTGATGCCAGGGTCGACT
+HWI-EAS443:3:49:1687:1708#0/1
`^^``_`XQ`V¥[RT`Z¥V¥YT]ZX¥[^UT[U]¥RS^XPZ
@HWI-EAS443:3:49:170:755#0/1
CTGGACGGATCAAGAAAGAAGAGTTCTCTGAGATCATGAA
+HWI-EAS443:3:49:170:755#0/1
abbbbabbbaabbbbbbbbabbb^bababbbaba`abba
@HWI-EAS443:3:49:1726:269#0/1
ACAGTCTGGGCTCCCAGTAGGGGCAATGAAAAGAAGGCC
+HWI-EAS443:3:49:1726:269#0/1
aaa`abaaabaaa`__^Vaa]`a``[``aW__`_Z[_U^
@HWI-EAS443:3:49:1731:846#0/1
CTCCTAGCTAAAGTTTCAACAAAGTATACGAAACCTCTAA
+HWI-EAS443:3:49:1731:846#0/1
a```a`b`bbb`b¥bba```baab]bbaabaaa]]_ab```

@HWI-EAS443:3:49:1735:1929#0/1
AGATTTCTTTCACAATCACTGGGGACAACACTAAGTGGAA
+HWI-EAS443:3:49:1735:1929#0/1
¥Z¥_aa`^a`^`aa`¥b[a`]^a``X^Xa_¥]S^`_]
@HWI-EAS443:3:49:1755:814#0/1
CTGTTTACTGTGTCCATGGTGTATCCTGTTCCCTGTTCCAT
+HWI-EAS443:3:49:1755:814#0/1
abbabbbbbbbbbbaabZ``[abab`bbabaabbabaaaa
@HWI-EAS443:3:49:234:1964#0/1
AGGGCTATTAGTATCAGATGGAGGACCAAACCTTATACAAT
+HWI-EAS443:3:49:234:1964#0/1
a_`Z]_b``a^ba`aaa`a`[a^a[_`aa```a`a_`^a
@HWI-EAS443:3:49:254:384#0/1
CAGGAACAGGATACACCATGGACACAGTAAACAGAACACA
+HWI-EAS443:3:49:254:384#0/1
abb`bbabbbbab`bababbba`baba_a_a_aa`a_b`b
@HWI-EAS443:3:49:261:1169#0/1
GGCAATGAAAAGAAGGCCAAACTGGCAAATGTTGTGAGAA
+HWI-EAS443:3:49:261:1169#0/1
`¥^^bb_aaaaa`aaaa__`]aa`_^`aa^`dWaXaZZ
@HWI-EAS443:3:49:267:1292#0/1
GATGCAGAGAGAGGCAAGTTAAAAAGAAGGGCTATCGCAA
+HWI-EAS443:3:49:267:1292#0/1
aa_a_ab[b[Y_a`_`_a_````_`_`_]`Z``YU`U^Y
@HWI-EAS443:3:49:277:1992#0/1
GGGAGCTAATGGATGATGATTATCGGGGAAGACTTTGTAA
+HWI-EAS443:3:49:277:1992#0/1
`_[Z_a_JUab_W^W¥_a`aa]^QZ```]a`aRJ][Z¥L_a
@HWI-EAS443:3:49:278:1707#0/1
TCCGACTCTACTTTTCTAAAAATCCAGCGCAAATGCC
+HWI-EAS443:3:49:278:1707#0/1
a`_aaababaabbbbaa^bb`aa`aa`aaaa_a`aaaaXT
@HWI-EAS443:3:49:337:634#0/1
AAAAATCCAGCGCAAATGCCATAAGCACCATTCCT
+HWI-EAS443:3:49:337:634#0/1
aaaaZabababaa_a`a`aa`aaa`^Y[a^^^__aZY¥^a
@HWI-EAS443:3:49:406:265#0/1
GATCCCCTAACTTGCAGGTCCTGTAGAATCTGTCCACT
+HWI-EAS443:3:49:406:265#0/1
¥[baa^[¥TabUN_b`_aZ¥VXZ]a_Zaaaa`aYZVR`ZU
@HWI-EAS443:3:49:444:993#0/1
CCCGGATTGATGCCAGGGTCGACTTCGAGTCTGGACGGAT
+HWI-EAS443:3:49:444:993#0/1
aba`bbbb]ZZbaZVR`^H`aaa_a`a]a`]a`b_¥`a][
@HWI-EAS443:3:49:458:1170#0/1
GAACGATTCTCTTGGGAATCCAGGAATGTGTAGTTGCAA
+HWI-EAS443:3:49:458:1170#0/1
ab`[`ba_aa`abbbbbaaa^a`aba_abb_a`ba_`aYba
@HWI-EAS443:3:49:464:677#0/1
CAAAGTCTTCCCCGATAATCATCATCCATTAGCTCCCATT

+HWI-EAS443:3:49:464:677#0/1
`baba`abbaaaaa`aa`a`aaaa_aa_aX_`aaaa`
@HWI-EAS443:3:49:545:205#0/1
GAACAATTGAAGAGCCATCTGGGCCGTTGCAGGTCCAAGG
+HWI-EAS443:3:49:545:205#0/1
`baabaabbbbaab`]abaab`a_`baaa_aba^_[_`^a¥
@HWI-EAS443:3:49:56:1258#0/1
CACTAACTTGCAGGTCCTGTAGAATCTGTCCACTCCTGCT
+HWI-EAS443:3:49:56:1258#0/1
abbabaaa_[bb`bbbabbab`abbaa`b_ab_b]abaab
@HWI-EAS443:3:49:579:1540#0/1
GACGGATCAAGAAAGAAGAGTTCTCTGAGATCATGAAGAT
+HWI-EAS443:3:49:579:1540#0/1
a_[V_`¥Z_`aa]_```]a_W¥]``aa]a`a^a`^aaa`_
@HWI-EAS443:3:49:673:1973#0/1
ATTGATTCCATTACATCCTTTAAGAAATCTATTAGCCTTC
+HWI-EAS443:3:49:673:1973#0/1
aa_aaWa`baaab^aa_a_[M`¥^aa]__^__S_[¥W[[]
@HWI-EAS443:3:49:721:1695#0/1
AGCTAATGGATGATGATTATCGGGGAAGACTTTGTAATCC
+HWI-EAS443:3:49:721:1695#0/1
ababbbbbbbbbbbabbbbbbbabba_aa`a_bbba_baa^U
@HWI-EAS443:3:49:769:1554#0/1
GAGATAACAACCCACTTTCAAAGAAAAAGGAGAGTAAGAG
+HWI-EAS443:3:49:769:1554#0/1
`a``bb^bba`^`^`bb_Y_a]`]]XX````ab_a[^^^a_
@HWI-EAS443:3:49:776:66#0/1
GGTGTGTTCTGTTTACTGTGTCCATGGTGTATCCTGTTCC
+HWI-EAS443:3:49:776:66#0/1
ab¥b_baa`aa`aa`_ab¥a____aaW_`^``_S__W_`^¥
@HWI-EAS443:3:49:783:206#0/1
GCCTCTCTGCATCTTTGGTCATCGTATTTAATGTCAGT
+HWI-EAS443:3:49:783:206#0/1
a````aa``Xa^Xa_WaX_a_PT^_ZaZ[``_Z^P^¥ULR`B
@HWI-EAS443:3:49:794:253#0/1
GTTGTTATCTCTATTTCCCTCTTTGTTTCATTGATTCCATTA
+HWI-EAS443:3:49:794:253#0/1
a`^]¥a``[a`a``aa``a`aaa_aa^__a_a_TT]__^
@HWI-EAS443:3:49:818:946#0/1
CAAACACAGAGACTGGTGCACCCCAGCTCAACCCGATTGA
+HWI-EAS443:3:49:818:946#0/1
abbbbbbbbaabbbbbbb[abbaaaabb_baaaa__baaaa_
@HWI-EAS443:3:49:832:136#0/1
CTGAGCATGGCACCCATAATGTTCTCAAACAAAATGGCAA
+HWI-EAS443:3:49:832:136#0/1
abbaabbbab]baa]ab`ba][babaaab_aabaaaaa^
@HWI-EAS443:3:49:853:1418#0/1
TACAGATACACATATAGGTGCCATAGGGGAGACACACAAA
+HWI-EAS443:3:49:853:1418#0/1
bba¥¥a``aabaaaa¥0L^Y`aX]__`__`^a_a`aa_

@HWI-EAS443:3:49:853:289#0/1
ATCCCACCCAGGAATATTTGAGAATTCATGCCTTGAACA
+HWI-EAS443:3:49:853:289#0/1
aa^^`a`^`aa__aaaaaa__^a__`a`_Xaa`___^b
@HWI-EAS443:3:49:879:1676#0/1
AGCTTGAACAGTCTGGGCTCCCAGTAGGGGCAATGAAAA
+HWI-EAS443:3:49:879:1676#0/1
abXb_aabXb[_aU¥_aZ_]S^[aH[aaU`_]`a_`¥____
@HWI-EAS443:3:49:884:1094#0/1
TTGATTCCCCTAACTTGCAGTCTGTAGAATCTGTCCA
+HWI-EAS443:3:49:884:1094#0/1
ab_ab]aaaabbba`abbaaa`_a`aaaa```¥aa]^^_
@HWI-EAS443:3:49:907:157#0/1
GAAACCTCTAATCTGCATCCCAGGTGTTGCGATAGCCCTT
+HWI-EAS443:3:49:907:157#0/1
Q_bbbaabbbbaabbbbbbabbabbbba_bbabb¥[abb
@HWI-EAS443:3:49:909:858#0/1
CCCGGATTGATGCCAGGTCGACTTCGAGTCTGGACGGAT
+HWI-EAS443:3:49:909:858#0/1
ababbabbbbab_abab`aaaaaba`ba`ab^`Zaa`_
@HWI-EAS443:3:49:916:275#0/1
CAAAGATGCAGAGAGAGCAAGTAAAAAGAAGGGCTATC
+HWI-EAS443:3:49:916:275#0/1
ab`baabbbbaabbbbaabbbbbbabbabba`bbb^
@HWI-EAS443:3:49:917:484#0/1
GAGTAAATGAATCAGCTGACATGAGTATTGGAGTAACAGT
+HWI-EAS443:3:49:917:484#0/1
_Xa_aaab_Q[^Y]Z¥aaa_`aaaa][_aaa_aMS¥UaaX
@HWI-EAS443:3:49:929:1335#0/1
GAGAGGCTATCTAATAAGAGCACTGACATTAATACGATG
+HWI-EAS443:3:49:929:1335#0/1
abaaba^aa]XY]]Y^_]`X]U¥___^^a^`[]Q_]Z_
@HWI-EAS443:3:49:933:231#0/1
GATTCTTCAAGGAAAGCCATAGCCTCTAGAACACAGTCTG
+HWI-EAS443:3:49:933:231#0/1
abbbbbbabbabbbabaabba^aa^aaaa_`_aa__aa
@HWI-EAS443:3:49:975:1312#0/1
CCCAGCTTTGGAGTGTCTGGAGTAAATGAATCAGCTGACA
+HWI-EAS443:3:49:975:1312#0/1
aab]U^bbb``_b_baabb]]_^bbbaa`a_[a``aa]_
@HWI-EAS443:3:4:1008:430#0/1
CTGGAGTAAATGAATCAGCTGACATGAGTATTGGAGTAAC
+HWI-EAS443:3:4:1008:430#0/1
_aab^aabbbba_a`abaaba`aaaabZaa``b_a]aa[
@HWI-EAS443:3:4:1056:493#0/1
ATTTGCGAAAAGCTTGAACAGTCTGGGCTCCCAGTAGGGG
+HWI-EAS443:3:4:1056:493#0/1
aabaa`baaaaa_aaa^a^`aWZa__`Z^^^Y^`_]`¥]_
@HWI-EAS443:3:4:1083:258#0/1
CTTTCCTTGAAGAATCCCACCCAGGAATATTTGAGAATTC

+HWI-EAS443:3:4:1083:258#0/1
a¥ba¥R_ababb`b^`Z[`a`_a`]]_`[]]a`a`````PP
@HWI-EAS443:3:4:1096:333#0/1
GGGGGCAATGAAAAGAAGGCCAAACTGGCAAATGTTGTGA
+HWI-EAS443:3:4:1096:333#0/1
[abab]ba_^Y__`_aaaaZWa_Y^ab```_^_a¥_a]a_
@HWI-EAS443:3:4:1118:143#0/1
GGTATGCACAAACAGACTGTGTTCTAGAGGCTATGGCTTT
+HWI-EAS443:3:4:1118:143#0/1
aa_aaaa`a`_X_a`Yaa]aZ^W]^^^_YQUBBBBBBBBB
@HWI-EAS443:3:4:1119:954#0/1
GGTGTGTTCTGTTTACTGTGTCCATGGTGTATCCTGTTCC
+HWI-EAS443:3:4:1119:954#0/1
``H]]ZUa_aa_`a`^^[[a_UNV__^UaY¥¥VZ`][`XU
@HWI-EAS443:3:4:1133:1135#0/1
GAGATAACAACCCACTTTCAAAGAAAAAGGAGAGTAAGAG
+HWI-EAS443:3:4:1133:1135#0/1
a`a_a_a__a]^Y¥aa_^_^`_]_^]`Y]]_`
@HWI-EAS443:3:4:1135:1651#0/1
GTGTGTTCTGTTTACTGTGTCCATGGTGTATCCTGTTCCCT
+HWI-EAS443:3:4:1135:1651#0/1
aab]a_a^aabbbaa_aaaa]___aa_Ta_aa__aa`_^¥`
@HWI-EAS443:3:4:1183:1825#0/1
GTTTCGTATACTTTGTTGAAACTTTAGCTAGGAGCATTG
+HWI-EAS443:3:4:1183:1825#0/1
`_aaaaYaa_]``aaaaa^`[aa``_a]^_^U_V]^[_^
@HWI-EAS443:3:4:1221:1196#0/1
GGCTTTCCTTGAAGAATCCCACCCAGGAATATTTGAGAAT
+HWI-EAS443:3:4:1221:1196#0/1
aa`aaaa`ba`a_a`a`_]_^Z__`]`___]`]a^a__`
@HWI-EAS443:3:4:1231:483#0/1
AAAAATTTCTCGAATAGATTGCAGCACTTCTGGTACATCT
+HWI-EAS443:3:4:1231:483#0/1
aaaa_aaa_bYa_^^`_````^^^_^[`_Wa^]^[`][Y
@HWI-EAS443:3:4:1272:1294#0/1
ACCCGAGTGGTTCAGAAACATCCTGAGCATGGCACCCATA
+HWI-EAS443:3:4:1272:1294#0/1
aa`aa_¥[aa[a^`_`a^```___`^`Ya__]R`Y]X`^B
@HWI-EAS443:3:4:1280:486#0/1
GATTGATGCCAGGGTCGACTTCGAGTCTGGACGGATCAAG
+HWI-EAS443:3:4:1280:486#0/1
WPW]a¥_b^Sa`^`VY_`a`_T¥X^VR`]aWR]aXUOZ]^
@HWI-EAS443:3:4:1375:161#0/1
CAGTGATTGTGAAAGAAATCTCTGTGTCTTGTGAATTAGT
+HWI-EAS443:3:4:1375:161#0/1
a`a^aaaaa_a[`^a_]a_]aY`_Y_]Wa^[^][Y][P¥W
@HWI-EAS443:3:4:1452:1029#0/1
ATGGGCTCCAATCATCCGACGATTTTGCTCTCATAGTGAA
+HWI-EAS443:3:4:1452:1029#0/1
Z_bb^Y___bX_Iaa^aa^¥Y_`^Y¥[ZYXLTV]¥]L_[]`

@HWI-EAS443:3:4:1453:473#0/1
GCCTTCCTGACTCATTAGCTGTTAGGCCATTCGATCTAAA
+HWI-EAS443:3:4:1453:473#0/1
a_aaaaabaaZaZ_aa_a_`a^^_¥^WS[TXYYW]U]VBB
@HWI-EAS443:3:4:1481:881#0/1
CCCCGATTGATGCCAGGGTCGACTTCGAGTCTGGACGGAT
+HWI-EAS443:3:4:1481:881#0/1
ab^a_M_aa^¥_ZVPWU^VT__[a`Q¥Z]UG[aX_RaaBB
@HWI-EAS443:3:4:1483:198#0/1
AAATTCCAGCGCAAATGCCATAAGCACCACATTCCTTA
+HWI-EAS443:3:4:1483:198#0/1
a¥QVba`_a`a^aZUI`a^`a^a`__¥¥P^Z`^`S^V[X_
@HWI-EAS443:3:4:1492:1868#0/1
TAGAGATAACAACCCACTTTCAAAGAAAAAGGAGAGTAAG
+HWI-EAS443:3:4:1492:1868#0/1
aab`aaaaaX`aZ]_a_aaa`___a]^__^aa^`[aY___
@HWI-EAS443:3:4:1559:846#0/1
AGATAAACTAACTCAAGGTCGCCAGACTTATGATTGGACA
+HWI-EAS443:3:4:1559:846#0/1
abaa^^^¥)`_`¥^`aa¥VY]]_`^`¥Ya_]Y_V_Y[¥XV[
@HWI-EAS443:3:4:1560:2001#0/1
ATTTCTTTTGTCCAAGATTCAGTATCGAGACTCCCAAGAC
+HWI-EAS443:3:4:1560:2001#0/1
a_bb¥aabbb___baaab`^aa[aa`aaa`^^0`Y`_a_W
@HWI-EAS443:3:4:1566:1170#0/1
CCTCCATCTGATACTAATAGCCCTACCTTTGATTGGGTTT
+HWI-EAS443:3:4:1566:1170#0/1
a`W^¥bba`aa[¥Sa_¥a`[]VS_a_T_^^^`a`a_aYZV
@HWI-EAS443:3:4:1587:1094#0/1
TGCCGTTGCAACTACACATTCCTGGATTCCCAAGAGGAAT
+HWI-EAS443:3:4:1587:1094#0/1
`a`_a¥abXaa_aa^a_a``[¥Z_a^_]VVSZ`a^_]`^]B
@HWI-EAS443:3:4:1623:417#0/1
CTCCCATTTTAAGCAGACTTCAGGAATGTGAAGATTCCGT
+HWI-EAS443:3:4:1623:417#0/1
`WGP^bbaabaaaXaa_[Y[`_`a_]_a]a^_a]_`SPZ^
@HWI-EAS443:3:4:1638:1643#0/1
GGGATGGGCTCCAATCATCCGACGATTTTGCTCTCATAGT
+HWI-EAS443:3:4:1638:1643#0/1
H¥b¥[¥I¥a`¥`aKabb]aba__[_aba¥VYa`[aaab`
@HWI-EAS443:3:4:1638:30#0/1
GGGATGGGCTCCAATCATCCGACGATTTTGCTCTCATAGT
+HWI-EAS443:3:4:1638:30#0/1
aaba¥Z^]Z_R[SZ]RK¥NQ_]U_HUU[¥GRSHVR]YXBB
@HWI-EAS443:3:4:1667:1357#0/1
GAGATAACAACCCACTTTCAAAGAAAAAGGAGAGTAAGAG
+HWI-EAS443:3:4:1667:1357#0/1
a]a^aa^V]a_^X¥Y`^]PXX]M]WY^]]_aW_]`^`_`^
@HWI-EAS443:3:4:1724:559#0/1
AAGAGATTGATTCTGTAAACAATGCTGTGGTAATGCCAGC

+HWI-EAS443:3:4:1724:559#0/1
a`a]TRaa`]W_R_]T¥aXOV_]XW[]N¥UBBBBBBBBBBB
@HWI-EAS443:3:4:1762:256#0/1
GGGCTATTAGTATCAGATGGAGGACCAAACCTATACAATA
+HWI-EAS443:3:4:1762:256#0/1
aa_^aa^^]aZaYSV^M¥`_W__ZZX[]¥¥S¥W]]Z]ZZ^
@HWI-EAS443:3:4:176:278#0/1
ATGTTCTCAAACAAAATGGCAAGACTAGGGAAAGGGTACA
+HWI-EAS443:3:4:176:278#0/1
aa`T¥_YW]_`_¥`¥¥^¥X`_a][^Z_a`ZXZ^YYS¥RW
@HWI-EAS443:3:4:1777:1598#0/1
GACAGATTCTACAGGACCTGCAAGTTAGTGGGAATCAACA
+HWI-EAS443:3:4:1777:1598#0/1
abbbbabbbb`aaaa]bbbaaaa_aaa_aaa`aa]aaY`
@HWI-EAS443:3:4:188:1412#0/1
AACAGATCTTCATGATCTCAGAGAACTCTTCTTTCTTGAT
+HWI-EAS443:3:4:188:1412#0/1
aaaa_TaZ¥`_a_b_a`a`a`_a`a`a`a`a`a`Za__^Y`_
@HWI-EAS443:3:4:243:403#0/1
AGCTGATTCACTTACTCCAGACACTCCAAAGCTGGGTAGC
+HWI-EAS443:3:4:243:403#0/1
^aaa`_]a`a¥aaa_ZGTUUIWa_X[``[U¥TFX_[XS[B
@HWI-EAS443:3:4:392:640#0/1
CTCCATCTGATACTAATAGCCCTACCTTTGATTGGGTTTG
+HWI-EAS443:3:4:392:640#0/1
ab]a]b¥baaaababaa_b`aaa^]]aaa``aaaa_____a
@HWI-EAS443:3:4:410:1558#0/1
ATTCGATCTAAAGACTTCTATGGTGTGGCCAATGCAGTT
+HWI-EAS443:3:4:410:1558#0/1
a^a^abaaaba¥`[_a_aaa`aY^`^^a`[[`¥aZ¥Y_¥
@HWI-EAS443:3:4:426:212#0/1
GCCCCGATTGATGCCAGGGTCGACTTCGAGTCTGGACGGA
+HWI-EAS443:3:4:426:212#0/1
a_X]a`U]¥a¥^¥U[^`aaS[Y^USUU`U¥USU^SMM^UU
@HWI-EAS443:3:4:43:366#0/1
TGGCATTGCGCTGGAATTTTAGGAAAAGTAGAGTCGG
+HWI-EAS443:3:4:43:366#0/1
abb`bbbb`ababbababbaaaabaa`aa]a_ab^_aa
@HWI-EAS443:3:4:442:1976#0/1
ATACCCACTTGGTTCATTATCCTCAGGTAGTGGTCCATCA
+HWI-EAS443:3:4:442:1976#0/1
aab``_a`a`^UMZ_a`aa_]_^a[]^`]X^Y^_U^]U^
@HWI-EAS443:3:4:451:1670#0/1
ATGAACTGCTAGGGAAAAATTTCTCGAATAGATTGCAGCA
+HWI-EAS443:3:4:451:1670#0/1
¥G`aa[_aaa`b`a`b`ba`^_a`¥aaaaa]`¥_aS`Y[a
@HWI-EAS443:3:4:478:378#0/1
GTTGATTCCCACTAACTTGCAGGTCCTGTAGAATCTGTCC
+HWI-EAS443:3:4:478:378#0/1
aaa``aa`_Ya_a`a^`aa_``^X]`a____^]LT_a]X]

@HWI-EAS443:3:4:49:122#0/1
CTTTCTCACAACTTTGCCAGTTTGGCCTTCTTTTCATTG
+HWI-EAS443:3:4:49:122#0/1
`abbaa`a`aab`_a_a_b`aaa`^__0`_`_]`^`
@HWI-EAS443:3:4:520:826#0/1
AAAAGCTTGAACAGTCTGGGCTCCCAGTAGGGGGCAATGA
+HWI-EAS443:3:4:520:826#0/1
__WU_^^^a^aaXPX`]Z_a¥^`¥[YaZ`a_Yaa_YUW`B
@HWI-EAS443:3:4:564:1094#0/1
ACAGAATCAATCTCTTTATGACTGACAAAGGGATTCAGGG
+HWI-EAS443:3:4:564:1094#0/1
a_aabaa_ba^^^[a`ab`_`_`^a_Ya_aW_[SQTZ_a][
@HWI-EAS443:3:4:637:1187#0/1
AGAGCACTGACATTAATACGATGACCAAAGATGCAGAGA
+HWI-EAS443:3:4:637:1187#0/1
a`aa¥^_`baNaaaaaaaaaaaaaaaaa_U`aU_`a_`^`X`_
@HWI-EAS443:3:4:686:737#0/1
AAAAAACAAAGACTGAATAAGAGAGGCTATCTAATAAGAG
+HWI-EAS443:3:4:686:737#0/1
_`aaaaaaaaa_bb`_aabbba`_aaa_ZP`¥_N]__WQ
@HWI-EAS443:3:4:727:1037#0/1
GGCCTCTTCTAATAGATGGCACAGCATCACTGAGTCCTGG
+HWI-EAS443:3:4:727:1037#0/1
aaa`a`_aab`aaaa`_a_aa^`a`_`_`^a`_aSZ_aa_
@HWI-EAS443:3:4:749:1387#0/1
TGGGATTCTTCAAGGAAAGCCATAGCCTCTAGAACACAGT
+HWI-EAS443:3:4:749:1387#0/1
aaab_`_`a`U`]TZ[V`W_a]_____]¥^`_]X]^BB
@HWI-EAS443:3:4:750:175#0/1
CTAATTTTAGCATGGAGCTACCCAGCTTTGGAGTGTCTGG
+HWI-EAS443:3:4:750:175#0/1
abbbbbbbba`P_baa_aaab__`_a__`_aa]aX`V]aaB
@HWI-EAS443:3:4:762:1490#0/1
CAGATTAGAGGTTTTCGTATACTTTGTTGAACTTTAGCTA
+HWI-EAS443:3:4:762:1490#0/1
aababb`_`ba`aba^Xb`_H¥ab`_`b`a_]_a`baa`_¥
@HWI-EAS443:3:4:786:356#0/1
ACCTGAAGTACTTCAATGAATCAACAAAGAAGAAAATTGA
+HWI-EAS443:3:4:786:356#0/1
aa`aaaa^Xa]_`^a`aa_]`[_]`ZUa_]`¥^^^____]
@HWI-EAS443:3:4:790:1843#0/1
CAAAGATGCAGAGAGAGGCAAGTTAAAAAGAAGGGCTATC
+HWI-EAS443:3:4:790:1843#0/1
`aab_bbbba`a`bbbbbb`_`bbaG`_`a`bbUbabU¥Sa^YN
@HWI-EAS443:3:4:825:1201#0/1
ATTAGCTGTTAGGCCATTTCGATCTAAAGACTTCTATGGTG
+HWI-EAS443:3:4:825:1201#0/1
aaaaaa_a[SIOWZP^Q]^aWWWUO¥`_RGT¥L]QTN]BB
@HWI-EAS443:3:4:842:1891#0/1
AATCTGTCCACTCCTGCTTGTATTCCCTCATGGTTTGGTG

+HWI-EAS443:3:4:842:1891#0/1
`_]P]aXYVaXWOJL[Uaa_0`_HKZUQUQZWLQYNR[OB
@HWI-EAS443:3:4:861:720#0/1
GTTGATTCCCCTAACTTGCAGGTCCTGTAGAATCTGTCC
+HWI-EAS443:3:4:861:720#0/1
a_]`a^X]aaa]___`a`a`___aa]^aW^`^_a^T]
@HWI-EAS443:3:4:864:316#0/1
CTTTTCCTAAAAATTCCAGCGCAAATGCCATAAGCACCA
+HWI-EAS443:3:4:864:316#0/1
abbbbaabbbbbabaa_abab_aaaabaY_aabaa¥b^]a
@HWI-EAS443:3:4:903:697#0/1
GGGGCAATGAAAAGAAGGCCAAACTGGCAAATGTTGTGAG
+HWI-EAS443:3:4:903:697#0/1
aa`a¥Z_aa]]Y[[]^`]U¥W]X_a]U^Y]]^V^_Y_Y^
@HWI-EAS443:3:4:910:222#0/1
ATGGCTTTCCTTGAAGAATCCCACCCAGGAATATTTGAGA
+HWI-EAS443:3:4:910:222#0/1
aaaaa`aaa]a`_aa_a_ZZX`[¥`]_`Z]]^^[Y^^
@HWI-EAS443:3:4:915:452#0/1
GAATCAGCTGACATGAGTATTGGAGTAACAGTGATAAAGA
+HWI-EAS443:3:4:915:452#0/1
a^`_`aa_aa`^`a^aY^`_a]`[^aSZ_Z]]^]^^[
@HWI-EAS443:3:4:920:691#0/1
GTTCATTATCCTCAGGTAGTGGTCCATCAATCGGGTTGAG
+HWI-EAS443:3:4:920:691#0/1
a^a¥a`a`_¥SWQ__^W__¥VRUUVV^¥WSWW¥¥WUZZWB
@HWI-EAS443:3:4:924:994#0/1
AGAATCTGTCCACTCCTGCTTGTATTCCCTCATGGTTTGG
+HWI-EAS443:3:4:924:994#0/1
aaaaa_aa`aaU¥[_`aa`a_Y___^^`_]`_0__U^
@HWI-EAS443:3:4:962:1137#0/1
GTGGGATTCTTCAAGGAAAGCCATAGCCTCTAGAACACAG
+HWI-EAS443:3:4:962:1137#0/1
aaa__Za^X`_`_a`^]`WV]__]]Y]]^]_^_]Y]]
@HWI-EAS443:3:4:982:1260#0/1
TATCGCAACACCTGGGATGCAGATTAGAGTTTCGTATAC
+HWI-EAS443:3:4:982:1260#0/1
aabaaUbabbaaTa`a_]_]_^`a`_W^a^Za_aX_a`a[
@HWI-EAS443:3:4:991:629#0/1
AAAAATTCCAGCGCAAATGCCATAAGCACCATTCCT
+HWI-EAS443:3:4:991:629#0/1
abaa^`a¥`aa¥a`___]]]¥_¥___W^]G_Z_]WUR]
@HWI-EAS443:3:4:999:296#0/1
CAGAGAGAGGCAAGTTAAAAAGAAGGGCTATCGCAACACC
+HWI-EAS443:3:4:999:296#0/1
]_`Ubabbb[_bbabbb`a_a_[0_a]bU]`b`bb_I
@HWI-EAS443:3:50:1006:787#0/1
CAAATCGTCGGATGATTGGAGCCCATCCCACAGTATAT
+HWI-EAS443:3:50:1006:787#0/1
aaba_a¥a¥[b_¥_¥bab`_`_`a_a`_[Ua]^]]_`a^a

@HWI-EAS443:3:50:1011:546#0/1
CTTCCCTATTGTTCTTTGCGTGACCATCTTCTTGGTCATG
+HWI-EAS443:3:50:1011:546#0/1
0]a¥`¥`a`bbaa`abab_b`a`^`Y`ZbbabbZ_Z¥S`b
@HWI-EAS443:3:50:1021:307#0/1
GAGCTAATGGATGATGATTATCGGGGAAGACTTTGTAATC
+HWI-EAS443:3:50:1021:307#0/1
aab_ababbbaabaabaaaa_`__`_]`a_]aaaa_`__`_
@HWI-EAS443:3:50:1039:423#0/1
GAGATAACAACCCACTTTCAAAGAAAAAGGAGAGTAAGAG
+HWI-EAS443:3:50:1039:423#0/1
`bbabbbaab_`aaa`bba`aa_aa_a``ba_`aaa¥a_`aaa
@HWI-EAS443:3:50:105:1809#0/1
TGTCCCCAGTGATTGTGAAAGAAATCTCTGTGTCTTGTGA
+HWI-EAS443:3:50:105:1809#0/1
a`^`^`^`a`_a_a`aZa¥` [Za_Y``__]V]U``WW[VP
@HWI-EAS443:3:50:1101:1165#0/1
TTGGTCTCCATCTGATACTAATAGCCCTACCTTTGATTG
+HWI-EAS443:3:50:1101:1165#0/1
aab]IY`_^`]]]_¥X_]aa_]WXYZ``Z[`[^`a_`^`
@HWI-EAS443:3:50:1125:1732#0/1
GCTTGTGTTGAGAATAGAACGATTCCCTCTTGGGAATCCAG
+HWI-EAS443:3:50:1125:1732#0/1
`^`^`a]_`_]_a`_aa¥_`^`a]]¥[V[^`^`_`^`a]`[[W]^`
@HWI-EAS443:3:50:1141:273#0/1
ATCCCACCCAGGAATATTTGAGAATTCATGCCTTGAACA
+HWI-EAS443:3:50:1141:273#0/1
aba`abaa`abb`abbbbaaaaa`aa_a`a__aaa_]`Ub
@HWI-EAS443:3:50:1202:226#0/1
GGTCTCCATCTGATACTAATAGCCCTACCTTTGATTGGG
+HWI-EAS443:3:50:1202:226#0/1
a]_]`b_`aaaY`^^ba`b`aaab¥[^a[]_aaba¥`YZ`^`
@HWI-EAS443:3:50:1276:1555#0/1
CAATGAACAAAGAGGAAATAGAGATAACAACCCACTTTCA
+HWI-EAS443:3:50:1276:1555#0/1
VTTT_`^^^[_[X_WW^W]^a[_XUW_P]NMN[TFX]]WH
@HWI-EAS443:3:50:1299:249#0/1
CTTTGTAATCCCCTGAATCCCTTTGTCAGTCATAAAGAGA
+HWI-EAS443:3:50:1299:249#0/1
abbbbbbbbbbbbbbbbbbbbbbbbbabababbbbbbbbb
@HWI-EAS443:3:50:1339:1328#0/1
CATGCTCAGGATGTTTCTGAACCACTCGGGTTGATTTCTG
+HWI-EAS443:3:50:1339:1328#0/1
aabb[`a_b`_`_`b[`aabb¥[_a`^`¥a^aaYaa¥`aa_a_
@HWI-EAS443:3:50:1378:366#0/1
GCAAAATCGTCGGATGATTGGAGCCCATCCCACCAGTATA
+HWI-EAS443:3:50:1378:366#0/1
`_`_`abb__^]U`]QYaX]XW]T]FUX`_`NGYT[NX_KXYW
@HWI-EAS443:3:50:1384:1746#0/1
AGCTGACATGAGTATTGGAGTAACAGTGATAAAGAACAAC

+HWI-EAS443:3:50:1384:1746#0/1
a`abbb`a]a`¥aab`a_a]aa^aa^`¥a`a`a^`_a`¥
@HWI-EAS443:3:50:1384:1993#0/1
AGTGTCTGGAGTAAATGAATCAGCTGACATGAGTATTGGA
+HWI-EAS443:3:50:1384:1993#0/1
ab`babbbbaababaaaa_a^Za_a_aaa`^Yaaa`_]
@HWI-EAS443:3:50:1385:288#0/1
AAAAATTCCAGCGCAAATGCCATAAGCACCACATTCCT
+HWI-EAS443:3:50:1385:288#0/1
abababba`aaab_a`aab]]_a^_Sa]^_Y_a`YXN_
@HWI-EAS443:3:50:139:166#0/1
CCTAGCTAAAGTTTCAACAAAGTATACGAAACCTCTAATC
+HWI-EAS443:3:50:139:166#0/1
¥`a¥`_`bba`_aVa`_ab`aZ`_a^`ba]¥`aaaab
@HWI-EAS443:3:50:1408:1247#0/1
GCCATGGTGTCTAGGGCCCGATTGATGCCAGGGTCGACT
+HWI-EAS443:3:50:1408:1247#0/1
`]a_^a¥VaY`^`aaa]^aaUa`X^XVX^TZ]`UY^VVY
@HWI-EAS443:3:50:1413:525#0/1
GATACACATATAGGTGCCATAGGGGAGACACAAATTCA
+HWI-EAS443:3:50:1413:525#0/1
^bbaabbbbbbbbababbbbbbbbbbbbabbbbaa
@HWI-EAS443:3:50:1469:1149#0/1
ACTCCAGACTCCAAAGCTGGGTAGCTCCATGCTAAAAT
+HWI-EAS443:3:50:1469:1149#0/1
aab`abaaaaa_aa`_a`_a`Z¥a]]X^^[Z_]TVW[
@HWI-EAS443:3:50:1470:722#0/1
GAGGCTATCTAATAAGAGCACTGACATTAATACGATGAC
+HWI-EAS443:3:50:1470:722#0/1
aaa`abb`_baaaaa`_¥aa^a]W]aa[a`_]W`]][¥N
@HWI-EAS443:3:50:1507:83#0/1
CATTGAAGTACTTCAGGTCAATGCTTGCTAGCATTCTGC
+HWI-EAS443:3:50:1507:83#0/1
abbbbabbbbabbbbaabbbba`bbbabb`bbbbWbb`
@HWI-EAS443:3:50:1556:1001#0/1
GAAGATGGTCACGCAAAGAACAATAGGGAAGAAAAACAA
+HWI-EAS443:3:50:1556:1001#0/1
ab_a^abYY`aa^`bWaTUY]]b_ab`Y_a[aUa^_Y^_
@HWI-EAS443:3:50:1610:384#0/1
GAACAACATGATAACAATGACCTTGGACCTGCAACGGCC
+HWI-EAS443:3:50:1610:384#0/1
Z¥¥_¥__^¥Xa`ZV^YWW[_SWV]VYaPXKTZUOYSYZZQ
@HWI-EAS443:3:50:1657:1570#0/1
ATGGGCTCCAATCATCCGACGATTTTGCTCTCATAGTGAA
+HWI-EAS443:3:50:1657:1570#0/1
ab^ZaaaU]abb`_`bbbaTb`aa_[[]aaba]SaP^Y`
@HWI-EAS443:3:50:1689:1694#0/1
GTGTTCTGTTTACTGTGTCCATGGTGTATCCTGTTCTGT
+HWI-EAS443:3:50:1689:1694#0/1
a¥baaaaa`aa__a__`¥___`^¥W`¥aa`W`^W_YY¥¥¥

@HWI-EAS443:3:50:1698:323#0/1
GAGATAACAACCCACTTTCAAAGAAAAAGGAGAGTAAGAG
+HWI-EAS443:3:50:1698:323#0/1
^Ya^¥b`a¥X^aaa`bb]``a_XX¥`ba_``^`TT¥¥
@HWI-EAS443:3:50:1734:1887#0/1
AGGGAATACAAGCAGGAGTGGACAGATTCTACAGGACCTG
+HWI-EAS443:3:50:1734:1887#0/1
`bba`bab_ba`[aa`_aaa_^Wb__bab`aYaa[T[O_T
@HWI-EAS443:3:50:1763:170#0/1
ATTAGTATCAGATGGAGGACCAAACCTTATACAATATACGG
+HWI-EAS443:3:50:1763:170#0/1
`babb^`^`ab]Kab`ba¥a^aa__baaa__a`aaaa`a
@HWI-EAS443:3:50:193:1177#0/1
ATGGAATCAATGAACAAAGAGGAAATAGAGATAACAACCC
+HWI-EAS443:3:50:193:1177#0/1
aaaaaaaaVaaab`a`_ba^¥ba`aaba¥`U`a`aa`_`[
@HWI-EAS443:3:50:194:1418#0/1
GAAAAATTTCTCGAATAGATTGCAGCACTTCTGGTACATC
+HWI-EAS443:3:50:194:1418#0/1
^`bb_^ab¥aaab_a^aaXb[bb`baababa`a_ab_
@HWI-EAS443:3:50:20:1286#0/1
AGCTACCCAGCTTTGGAGTGTCTGGAGTAAATGAATCAGC
+HWI-EAS443:3:50:20:1286#0/1
aa_a`a^]aa`_aaaa^_]`V`a`W`Z`aa`_]XUUZ
@HWI-EAS443:3:50:229:1147#0/1
TTGGACCTGCAACGGCCAGATGGCTCTTCAATTGTTTCAT
+HWI-EAS443:3:50:229:1147#0/1
`aba¥QWa`^a^WY¥aYa^]RZ`]YW`[SXY`¥R¥[LWT
@HWI-EAS443:3:50:230:1091#0/1
TGCCAGTTTGGCCTTCTTTTCATTGCCCCCTACTGGGAGC
+HWI-EAS443:3:50:230:1091#0/1
¥a^_^bbabbbbbbabb`^_bb^ZY_a`aaaXabbaa]
@HWI-EAS443:3:50:239:337#0/1
CTTCCCTATTGTTCTTTGCGTGACCATCTTCTTGGTCATG
+HWI-EAS443:3:50:239:337#0/1
abbbbabbbbbbabbab^aaaaaaYbbabb`aaa`bb
@HWI-EAS443:3:50:327:729#0/1
GGACGACAAACACAGAGACTGGTGCACCCCAGCTCAACCC
+HWI-EAS443:3:50:327:729#0/1
_X]]]¥¥aaaa`SaaZ`[[¥a]TV¥^^`^`Y^¥Y[`]OX^
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@HWI-EAS443:3:50:340:1755#0/1
GCCTTATTTTCTCAATTTTCTTCTTTGTTGATTCATTGAA
+HWI-EAS443:3:50:340:1755#0/1
U¥a¥_b`abaaaa]^aaa`_baabbb_abbabbb_baa^]
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+HWI-EAS443:3:50:360:908#0/1
abbTR][a_aa`bbaaaa_a_bbbb^aaa`^Ra_`a]aU^
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+HWI-EAS443:3:50:380:597#0/1
ab[aabbabaabbaabaa¥¥¥Zbaaaaa_aXa_`_`_]a
@HWI-EAS443:3:50:395:1670#0/1
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+HWI-EAS443:3:50:395:1670#0/1
^¥]aaab`a^]Z]^`a`_`_¥`_]Z[`aaZ_¥[^[Xa_¥`
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+HWI-EAS443:3:50:414:1558#0/1
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+HWI-EAS443:3:50:43:1760#0/1
abbbba_bb`_`bbabb`_abaaaabaabaaaaa_a`a
@HWI-EAS443:3:50:458:1621#0/1
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+HWI-EAS443:3:50:458:1621#0/1
Y_QPZ`^b_] [^`Y¥¥]U¥X`W¥`YQWY[WKZ_a^a]Y]W
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@HWI-EAS443:3:50:519:1581#0/1
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+HWI-EAS443:3:50:519:1581#0/1
`bb]^`aa^a`Z^aaaa_aYaa`_`WT¥]^`S`aa^a____`^
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+HWI-EAS443:3:50:527:1029#0/1
a¥Ha`_`aaaabVa]aY^a^]F]Y_N¥^`Y_`_`_`_`_`_`a___
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+HWI-EAS443:3:50:540:1693#0/1
abbbbabbbb`_`baaaaa_`¥aa`^a`_`_`_`a[aa_I]Y
@HWI-EAS443:3:50:594:1835#0/1
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+HWI-EAS443:3:50:594:1835#0/1
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+HWI-EAS443:3:50:594:999#0/1
ab_^aaa^_a`Y¥¥a¥_a_` [``][`] `aaVH[`Uaa`^`

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UQZMF¥]``Z_`_^`¥]N__WOYV^_ZU[U_ZYT]ZVR`
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+HWI-EAS443:3:50:630:1981#0/1
aa`Uaa``ba`a_bbab¥Q]]``a^X_aaa^aaa__a`P`
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+HWI-EAS443:3:50:71:1074#0/1
a`aa```^XV_S]a```]`Z^R]_a`Z`a`^_]X```W
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+HWI-EAS443:3:50:738:895#0/1
ab`YV_]¥VXSPZ^Z^```Z^[^`]`]a^[`¥U[a^aWbZ
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+HWI-EAS443:3:50:786:423#0/1
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@HWI-EAS443:3:50:89:1122#0/1
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+HWI-EAS443:3:50:89:1122#0/1
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+HWI-EAS443:3:51:1064:1773#0/1
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+HWI-EAS443:3:51:1065:1974#0/1
]J[R[_V^ZT]]¥`]¥[_UT]]¥LJYS_N¥`YFOV¥SUPV
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aa`aa_a`]¥^a`¥WX`b_aaa_X^Z]aaa^_a_```V¥Q
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+HWI-EAS443:3:51:1067:582#0/1
[_`_S_¥a`aZab¥`b`aaaZ]]YPaWXYa]``YY`ba`_Z
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+HWI-EAS443:3:51:1069:714#0/1
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@HWI-EAS443:3:51:1089:1330#0/1
ATGACCAAGAAGATGGTCACGCAAAGAACAATAGGGAAGA
+HWI-EAS443:3:51:1089:1330#0/1
a`_`aa`a]``aaaa__`a]__a]a¥_`a_`^`^`^`^`_`
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+HWI-EAS443:3:51:1102:1020#0/1
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+HWI-EAS443:3:51:1140:1810#0/1
¥_¥Q_P_^baa¥b`^V¥[¥[aa¥Pa`^`b_b[H_aXa¥_^
@HWI-EAS443:3:51:1223:64#0/1
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+HWI-EAS443:3:51:1223:64#0/1
¥a`a¥`a^abbba_WV`a_XY_aabb` `a`aXa`b`_OYZ
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+HWI-EAS443:3:51:1248:366#0/1
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+HWI-EAS443:3:51:1250:252#0/1
^bbbabbbb`bbbbbbbabababababb` `aab^` `] `a
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+HWI-EAS443:3:51:1263:319#0/1
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+HWI-EAS443:3:51:1382:1342#0/1
a_XQabSbaa_`XR]_¥`WVTKP^[_a[QXXV^_¥Sa`¥
@HWI-EAS443:3:51:1391:1831#0/1
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+HWI-EAS443:3:51:1391:1831#0/1
ab`U` [aabb]Z[X`VaaaaaXabUQU^M]R¥Q`^a]_^
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+HWI-EAS443:3:51:1466:132#0/1
`S¥^^[`aa¥YWV`a]Y_YSV¥_Y¥[[[]^][¥ZUV^^
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+HWI-EAS443:3:51:1491:1573#0/1
aba`][a`^a[a^[^b¥L^`_]__aX[___]_a^_¥a`^^V
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+HWI-EAS443:3:51:1544:1215#0/1
abbbaaaa_abaa_SO^[]]]b[T`¥aa`_a_a_a]`¥¥G

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+HWI-EAS443:3:51:1566:478#0/1
a^bbaaabb`b_UaaT_aaab^a¥a`¥¥Y_YaY`a^_aU
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GCATCCCAGGTGTTGCGATAGCCCTTCTTTTTAACTTGCC
+HWI-EAS443:3:51:1569:1241#0/1
`baaX___b]^`_]¥]aaaa_`Z¥a`]bbaaaaUa[^` [
@HWI-EAS443:3:51:156:1232#0/1
GTTGCGATAGCCCTTCTTTTTAACTTGCCCTCTCTGCGAT
+HWI-EAS443:3:51:156:1232#0/1
a`b`ba`a]a`_a`a`aa___^a_a`_`_]_____ZS
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+HWI-EAS443:3:51:1587:1564#0/1
a_a¥F_]_[a]Z___ZZa`__NQ_W[WUP^^URV¥Q`_WZW
@HWI-EAS443:3:51:1592:424#0/1
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+HWI-EAS443:3:51:1592:424#0/1
J_¥¥`abbb^__`aab`aa_^`a```ba_b__a_Z_]a
@HWI-EAS443:3:51:161:1432#0/1
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+HWI-EAS443:3:51:161:1432#0/1
Jabbbbbbb¥Vb¥Uab`a`a`_bbaabb`a¥X¥`Z]¥Y]
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+HWI-EAS443:3:51:1624:867#0/1
abaa`_baba[^]¥R_a`V]W¥PN][_Y¥VN¥]XXYYVQZ
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+HWI-EAS443:3:51:1676:260#0/1
^ababaaabaaa¥aba]^aVaX_aaaa`ab_a][]aaZ[
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+HWI-EAS443:3:51:1682:757#0/1
aaa^aX`^_¥Z`ZZZa^a^RX`_NZTZ^KWX]aXZ[[¥Xa
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+HWI-EAS443:3:51:171:1525#0/1
ab]¥Z`_a]SW^`ZST`a¥T][FNY¥[RS`]^a¥^]XXY
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CCTCCATCTGATACTAATAGCCCTACCTTTGATTGGGTTT
+HWI-EAS443:3:51:1766:553#0/1
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+HWI-EAS443:3:51:22:650#0/1
¥]Q[Y[^Z^Xa^`_a[___]^baa_W]ZZBBBBBBBBBBBB
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CAATATACGGAATCTTCACATTCTGAAGTCTGCTTAAAA
+HWI-EAS443:3:51:235:521#0/1
aabbbbbabbbbbbbbabbaa`bbbbabb`bbba`a
@HWI-EAS443:3:51:249:496#0/1
GATTCCCAAGAGGAATCGTTCTATTCTCAACACAAGCCAA
+HWI-EAS443:3:51:249:496#0/1
^X]^ZZa_V¥aa¥T¥_ab[] [aa` `[`a¥V¥` `]]YSURI
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+HWI-EAS443:3:51:251:1044#0/1
^a`^`abbaa_abaa_aa^^]YZ`b)`aaa_]aab` `X][
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+HWI-EAS443:3:51:252:553#0/1
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+HWI-EAS443:3:51:268:2016#0/1
a_aFVZR¥[Z¥[S[SQR^R¥Y^YO¥W[^UJVXQ_`]WTDI
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+HWI-EAS443:3:51:291:1418#0/1
]a]¥XY`a]abbX^aZ`aaa^^¥_a_aY]^QY]]N]YW
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AACCAAGTGGGTATGCACAAACAGACTGTGTTCTAGAGGC
+HWI-EAS443:3:51:325:360#0/1
abababbabab_aaaaaaaaaa_aa]_ab_a^]¥` `a¥[aB
@HWI-EAS443:3:51:33:996#0/1
GGGCTCCAATCATCCGACGATTTTGCTCTCATAGTGAATG
+HWI-EAS443:3:51:33:996#0/1
ababaaaaaa`aa__aa`aZ`aaaa` `` ` `__Ya___`
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+HWI-EAS443:3:51:340:542#0/1
a` `aaa`aba`aaaa`a` ____¥_a_¥____` `^a¥_`^
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+HWI-EAS443:3:51:353:514#0/1
aa^Z_Va¥`aaaaa_a`__a_aa` `aaaa`aa`a` `a`a
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aabbbab^bYaZa¥baab_`abaaabaaa`aabaabbaab
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+HWI-EAS443:3:51:381:1849#0/1
aaabaaaabaaaaaabb_a`a____`a^aZU[`W_`^`^W

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+HWI-EAS443:3:51:413:845#0/1
`¥bbaabbba^^^_babaa_aa_a_a^a¥a`aa[^[BBB
@HWI-EAS443:3:51:444:863#0/1
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+HWI-EAS443:3:51:444:863#0/1
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+HWI-EAS443:3:51:451:23#0/1
¥a¥ba^^a_a^a`a`aa^abba¥_bbbbb^ba^^a]^bba
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+HWI-EAS443:3:51:469:320#0/1
a`aa`ba```aaa`a`a_a_aa]aa`¥_Xa_^^`_^`]^_
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+HWI-EAS443:3:51:479:1635#0/1
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+HWI-EAS443:3:51:490:462#0/1
aZZY¥_bZPa`¥`Ra`ZX¥bR]^`a^¥0¥aWabZaa`_
@HWI-EAS443:3:51:509:274#0/1
GACGATTTTGCTCTCATAGTGAATGCACCAAACCATGAGG
+HWI-EAS443:3:51:509:274#0/1
a_U_]a_]Za]^¥`a`aa[`Y`aZV^U]]a^[YZa`¥`a
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+HWI-EAS443:3:51:526:580#0/1
a`aaa`aa`aaaa`a`a`_]__[^a_]`ZQW^_P[^
@HWI-EAS443:3:51:535:39#0/1
GGGGATTACAAAGTCTTCCCCGATAATCATCATCCATTAG
+HWI-EAS443:3:51:535:39#0/1
_^`babb_babaa_aa_W^`S¥`^¥``Y^`]aa`^a`_]
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+HWI-EAS443:3:51:537:1719#0/1
aaa_aaba`a`a^aa`ba```_`^`a¥aa__a`aa```^_
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+HWI-EAS443:3:51:542:1940#0/1
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CCACCCAGGAATATTTGAGAATTCATGCCTTGAACAATG
+HWI-EAS443:3:51:546:1170#0/1
ab^^a_I_¥]_`b`a`bab]a^[aaaa`]``a``^__a`
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+HWI-EAS443:3:52:115:633#0/1
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+HWI-EAS443:3:52:118:481#0/1
]bbbb^b`_`_bbaababba`[^`¥¥[_a_a_]`aZaa^
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+HWI-EAS443:3:52:1235:1437#0/1
`X]_TJT`YUZ`a__`]V^N_Z]Z__X`aX_a`a_]LU[
@HWI-EAS443:3:52:1270:1275#0/1
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+HWI-EAS443:3:52:1270:1275#0/1
abYb]aaa]_¥`aa]^a_]a]a_]`^^a_]TSR[^aSNP]
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+HWI-EAS443:3:52:1289:1784#0/1
¥a`bbbbbbabbbbaa`]ab`_`_]a¥a`bbbb]V`
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+HWI-EAS443:3:52:1311:182#0/1
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@HWI-EAS443:3:52:1330:177#0/1
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+HWI-EAS443:3:52:1330:177#0/1
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+HWI-EAS443:3:52:1335:767#0/1
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+HWI-EAS443:3:52:1353:109#0/1
aaKb^^a^b][ab^M¥HbYHYWVa`RaSaaNabZGXaa__
@HWI-EAS443:3:52:1391:53#0/1
CAACTGCATTGGCCAACACCATAGAAGTCTTTAGATCGAA
+HWI-EAS443:3:52:1391:53#0/1
aa¥P`b^aabbZaa`H]a]Q[Y`¥0_S^``_]W[¥S`UY
@HWI-EAS443:3:52:1403:1825#0/1
CAGGAATGTGTAGTTGCAACGGCATCATATCCATGCTTT
+HWI-EAS443:3:52:1403:1825#0/1
a_bbbbbbabaaabbabbaa`abb_abbbaa]bba^`ab
@HWI-EAS443:3:52:1490:283#0/1
GATAAAGAACAACATGATAAACAATGACCTTGGACCTGCA
+HWI-EAS443:3:52:1490:283#0/1
_L]VZW¥]XTXY]ZX`Z^`^PVYV`aZGFY^]]¥L[VBBB
@HWI-EAS443:3:52:1507:916#0/1
AATCTTCATTCTTTTACTCTCGAACATGTACCCTTCCCT
+HWI-EAS443:3:52:1507:916#0/1
aab`aaaaba`abbaa_ba`^`_]`]`a`_`^¥`_`_^[]`

+HWI-EAS443:3:52:1708:1404#0/1
`_aa__aa`[a_`^^a^`^`____^`_`¥Uaa]_W____R__
@HWI-EAS443:3:52:1710:1925#0/1
CACTCCTGCTTGTATTCCCTCATGGTTTGGTGCATTCACT
+HWI-EAS443:3:52:1710:1925#0/1
abaa]_`aaa`a_aaa_¥S]Z[aa_WaZF]Za]_a`LVS`
@HWI-EAS443:3:52:1741:1099#0/1
ATGGAATCAATGAACAAAGAGGAAATAGAGATAACAACCC
+HWI-EAS443:3:52:1741:1099#0/1
abba`aaaaabaaa]a`a]0[^¥_`a_`_aaaaa`a`¥X¥
@HWI-EAS443:3:52:1760:1574#0/1
ATGGCTTTCCTTGAAGAATCCCACCCAGGAATATTTGAGA
+HWI-EAS443:3:52:1760:1574#0/1
`____abb__Y__Y¥_`Vb¥ZT]^U`_YU`Z``¥XaaSWU]
@HWI-EAS443:3:52:1765:1703#0/1
AACCAAGTGGGTATGCACAAACAGACTGTGTTCTAGAGGC
+HWI-EAS443:3:52:1765:1703#0/1
abbaa_a¥aa^Wa`^[[¥_____]_^¥_[W_U[S]UBBBBB
@HWI-EAS443:3:52:207:1830#0/1
AAACAATGCTGTGGTAATGCCAGCCCATGGTCCAGCCAAA
+HWI-EAS443:3:52:207:1830#0/1
a]]_b_a`aaa¥a`[a_a____a^^¥]^¥¥UUW__[U[¥¥]
@HWI-EAS443:3:52:263:297#0/1
AGCTGATTCATTTACTCCAGACACTCCAAAGCTGGGTAGC
+HWI-EAS443:3:52:263:297#0/1
a_aYF[a^bab_bbaba]`^`^abaa]a`_]a`abaaM`a]
@HWI-EAS443:3:52:352:619#0/1
TGGAATCAATGAACAAAGAGGAAATAGAGATAACAACCCA
+HWI-EAS443:3:52:352:619#0/1
aa`_`aaaa`]]a`_`¥a[a`^_`aZa_aa`__[^`^]]U^
@HWI-EAS443:3:52:387:155#0/1
GCACAGCATCACTGAGTCCTGGGATGATGATGGGCATGTT
+HWI-EAS443:3:52:387:155#0/1
abaaaa`aa^b_aa_a_a_aaaa¥`aZa`_`aY`____aV`
@HWI-EAS443:3:52:38:274#0/1
GATCATTTGAGTTAAAGAAGCTGTGGGATCAAACCCAATC
+HWI-EAS443:3:52:38:274#0/1
^¥`baab`_Zb_]Yaa`][W]SaMa_^PTRX[RN[Z_SZZ
@HWI-EAS443:3:52:396:1160#0/1
GGGCTCCAATCATCCGACGATTTTGCTCTCATAGTGAATG
+HWI-EAS443:3:52:396:1160#0/1
a]]`X`[V[_^_N_`]¥YGY`W^SZ]VVV]XVWM^QUY]
@HWI-EAS443:3:52:405:512#0/1
GTCCTGTAGAATCTGTCCACTCCTGCTTGTATTCCCTCAT
+HWI-EAS443:3:52:405:512#0/1
a`_`_a`_a`^`^`aaa]_a`^`_`^`_]`^SZY`_`^`_]YV_
@HWI-EAS443:3:52:419:901#0/1
GGGCTCCAATCATCCGACGATTTTGCTCTCATAGTGAATG
+HWI-EAS443:3:52:419:901#0/1
a`aaa`_`aaa`a^_a`a`a`_XNVa`_`_]`____^¥S¥UU_`

@HWI-EAS443:3:52:449:1511#0/1
TGCCGTTGCAACTACACATTCCTGGATTCCCAAGAGGAAT
+HWI-EAS443:3:52:449:1511#0/1
a^aaa`_Z__aV`]`a_a``[¥ZTQ[^T^Z^[^^^Z_
@HWI-EAS443:3:52:476:273#0/1
AACCCGAGTGGTTCAGAAACATCCTGAGCATGGCACCCAT
+HWI-EAS443:3:52:476:273#0/1
a_aa¥_GaYaaSUG]ZQQ`VLLG¥][U[PQPLOKMURYBB
@HWI-EAS443:3:52:53:13#0/1
GCTGGTATTTGTGTTCGAATCTTCATTCTTTTACTCTCGA
+HWI-EAS443:3:52:53:13#0/1
aa`aaXS_aY]Q]ZZZ^T¥XR¥YTNXUSS^]VPVXXYX¥X
@HWI-EAS443:3:52:545:1398#0/1
AAGAGAGGCTATCTAATAAGAGCACTGACATTAATACGA
+HWI-EAS443:3:52:545:1398#0/1
aaaaa`aaaa`[W[L_V_WJVRPYS^VORZ[¥RZ_IXJOV
@HWI-EAS443:3:52:553:171#0/1
GTTCTGTTTACTGTGTCCATGGTGTATCCTGTTCTGTTCT
+HWI-EAS443:3:52:553:171#0/1
a__X`a]`^^`a_aXYWY__U]WX_X]`]ZTV__]UY
@HWI-EAS443:3:52:567:1677#0/1
CAATCCGACTCTACTTTTCTAAAAATTCCAGCGCAAAAT
+HWI-EAS443:3:52:567:1677#0/1
aabbbab`abbbbabbaaaabbb^`baa`^a_aa`aVa`a
@HWI-EAS443:3:52:603:475#0/1
CAGGAATGTGAAGATTCCGTATATTGTATAAGTTTGGTCC
+HWI-EAS443:3:52:603:475#0/1
a]V]`aa]^`^^`_VZb^_a`aab`^ZV``a_]QV]¥
@HWI-EAS443:3:52:620:1110#0/1
GGTGGGATGGGCTCCAATCATCCGACGATTTTGCTCTCAT
+HWI-EAS443:3:52:620:1110#0/1
__Y`Z_X^`_Y¥___`__T_X`WZ_]``_a]¥`_^XY
@HWI-EAS443:3:52:62:814#0/1
AAAAATTCCAGCGCAAAATGCCATAAGCACCCACATTCCCT
+HWI-EAS443:3:52:62:814#0/1
aa`U``aaaaa_a````^`]]_]_[X¥]^]Y]Z^]YWZZ^
@HWI-EAS443:3:52:649:1831#0/1
GGGATTACAAAGTCTTCCCCGATAATCATCATCCATTAGC
+HWI-EAS443:3:52:649:1831#0/1
abb`bbbabbbb`aaaaa_a`aaaaa_aaaaaa^aaa``_
@HWI-EAS443:3:52:651:1023#0/1
CGGATTGATGCCAGGGTCTGACTTCGAGTCTGGACGGATCA
+HWI-EAS443:3:52:651:1023#0/1
_`XWYbbaaa]¥`aW^Yaaa_aZUZXaYZ`a[___aaX^Z]
@HWI-EAS443:3:52:657:973#0/1
GTCCATCAATCGGGTTGAGCTGGGGTGCACCAGTCTCTGT
+HWI-EAS443:3:52:657:973#0/1
aaaa``aaaa``aa[¥Y¥^[¥aZZ[N¥[___¥Y]UU]X^_V
@HWI-EAS443:3:52:679:1523#0/1
GCAAAATCGTCCGATGATTGGAGCCCATCCCACCAGTATA

+HWI-EAS443:3:52:679:1523#0/1
abb^baaba^aaa`__`aa¥¥`_`_a_]`_`_]YaZ^` [
@HWI-EAS443:3:52:700:1047#0/1
ATCCGACTCTACTTTTCCTAAAAATTCCAGCGCAAAATGC
+HWI-EAS443:3:52:700:1047#0/1
ababa]`a^]abaaaaabba_]aa``bZ``a_ZZ``Y
@HWI-EAS443:3:52:707:552#0/1
CGAATCTTCATTCTTTTACTCTCGAACATGTACCCTTCC
+HWI-EAS443:3:52:707:552#0/1
abb_aabbabbbaabbababab[``_aa`ab_aa_`baaa¥
@HWI-EAS443:3:52:730:875#0/1
GACCAAGAAGATGGTCACGCAAAGAACAATAGGGAAGAAA
+HWI-EAS443:3:52:730:875#0/1
a`aa]aaa`a[Ta_T`_`¥[^¥`^U___^aX`a¥[P_XV[
@HWI-EAS443:3:52:731:954#0/1
GTTCTGTTTACTGTGTCCATGGTGTATCCTGTTCTGTTCC
+HWI-EAS443:3:52:731:954#0/1
a]a_a`aa]_aa¥a]_]`aaX_Y__UX`_X^]W_`Y^X
@HWI-EAS443:3:52:736:1419#0/1
GTTTACTGTGTCCATGGTGTATCCTGTTCTGTTCCATGG
+HWI-EAS443:3:52:736:1419#0/1
`X_`_[]aX_P^Z¥]Z^N¥¥¥YZLX_[Z¥¥YVV[]][¥[Z¥
@HWI-EAS443:3:52:740:1316#0/1
CATTTGCGAAAAGCTTGAACAGTCTGGGCTCCCAGTAGGG
+HWI-EAS443:3:52:740:1316#0/1
abba`abaaaaabaaaa_a_a¥_a`_a_`__a^aWS¥__
@HWI-EAS443:3:52:758:67#0/1
AGATAACAACCCACTTCAAAGAAAAAGGAGAGTAAGAGA
+HWI-EAS443:3:52:758:67#0/1
aa_baa^aaS`_`X`aa`^X[a__ZV^b`]a]b_`_a_`_
@HWI-EAS443:3:52:759:1244#0/1
GCTAATTTTAGCATGGAGCTACCCAGCTTTGGAGTGTCTG
+HWI-EAS443:3:52:759:1244#0/1
ab__W`bb``]¥abaa^__aaa^¥]aaba`_X_bZaa^ba
@HWI-EAS443:3:52:776:148#0/1
CAACCCGAGTGGTTCAGAAACATCCTGAGCATGGCACCCA
+HWI-EAS443:3:52:776:148#0/1
`ba^U^bbb_bbaa^^Y`aaXa¥VZ[Y^aWa____]_ZWW`
@HWI-EAS443:3:52:786:154#0/1
GAACAATTGAAGAGCCATCTGGGCCGTTGCAGGTCCAAGG
+HWI-EAS443:3:52:786:154#0/1
aaa`aaaaab__a_^`a_a^a]`^^a]^_ZX`_YY]]X_[
@HWI-EAS443:3:52:80:394#0/1
CCGGATTGATGCCAGGGTCGACTTCGAGTCTGGACGGATC
+HWI-EAS443:3:52:80:394#0/1
aabbabbaZaaba_a`aZbabaa]UaaaWabb`a`a`0¥]
@HWI-EAS443:3:52:817:851#0/1
ATTGATGCCAGGGTCGACTTCGAGTCTGGACGGATCAAGA
+HWI-EAS443:3:52:817:851#0/1
aaa`aaaaaaaa`a`a```Y]W]`a`^]_^]^^`[]X

@HWI-EAS443:3:52:836:937#0/1
GGCTATTAGTATCAGATGGAGGACCAAACTTATACAATAT
+HWI-EAS443:3:52:836:937#0/1
ab`aba^a`¥```a`^ab]``YX¥^aaZaa```^¥a_``
@HWI-EAS443:3:52:863:140#0/1
GGCAAGTTAAAAAGAAGGGCTATCGCAACACCTGGGATGC
+HWI-EAS443:3:52:863:140#0/1
^V[a_a_aa]¥_`a````__``[Xa]__Y^XU_`a_]__]
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GGCTAATTTTAGCATGGAGCTACCCAGCTTTGGAGTGTCT
+HWI-EAS443:3:52:865:2016#0/1
`abbbab][^ab`abaa`a_aa¥`a_aabaa_¥WZU^_
@HWI-EAS443:3:52:881:501#0/1
TTGATGCCAGGGTCGACTTCGAGTCTGGACGGATCAAGAA
+HWI-EAS443:3:52:881:501#0/1
abaa```¥Z[¥ZQ¥¥^¥aZZ]W_Y]aaXV`YS[[[] []]
@HWI-EAS443:3:52:890:1503#0/1
GGTGTGTTCTGTTTACTGTGTCCATGGTGTATCCTGTTCC
+HWI-EAS443:3:52:890:1503#0/1
aaNaY_^`_a[`aa^¥_a^a^^Z¥^^WTaY¥_^]_^Z`WW
@HWI-EAS443:3:52:89:1293#0/1
GAGTAAATGAATCAGCTGACATGAGTATTGGAGTAACAGT
+HWI-EAS443:3:52:89:1293#0/1
]N_R^_^ZZYYY¥_W`Vaa[]``WWDU¥a^LDXN[`[QZO
@HWI-EAS443:3:52:915:1744#0/1
TGCAGATTAGAGGTTTCGTATACTTTGTTGAAACTTTAGC
+HWI-EAS443:3:52:915:1744#0/1
Ya`ab`^bb_Y_¥^_Y[S]b`Z]X_ba¥RU``Yba^HQ]
@HWI-EAS443:3:52:915:413#0/1
CGATAATCATCATCCATTAGCTCCCATTTTAAGCAGACTT
+HWI-EAS443:3:52:915:413#0/1
aba`[^aaaa_aba¥`ab^a`a`_``aa^^^aXaa`X]W
@HWI-EAS443:3:52:942:1858#0/1
GGGATTACAAAGTCTTCCCCGATAATCATCATCCATTAGC
+HWI-EAS443:3:52:942:1858#0/1
`aa]U^b`b`aaSabaRaYa_]a__a¥`____]`^_a_W`_
@HWI-EAS443:3:52:997:1402#0/1
CCGGCAGCAACTGCATTGGCCAACACCATAGAAGTCTTTA
+HWI-EAS443:3:52:997:1402#0/1
^b`_aa_^_]bba`_abaa_]_aa_aaaaa_``ZVaaaa
@HWI-EAS443:3:53:1007:1755#0/1
GTAGTCTTTGATGAACAATTGAAGAGCCATCTGGGCCGTT
+HWI-EAS443:3:53:1007:1755#0/1
a_`[S``aaaaaa^`]^a`][a_]¥`a^Z____]T`R]
@HWI-EAS443:3:53:100:25#0/1
GAACAATTGAAGAGCCATCTGGGCCGTTGCAGGTCCAAGG
+HWI-EAS443:3:53:100:25#0/1
a____`^aa]]`__`]^_^]a^^]Z`TRXUW^ZQTWTMY]
@HWI-EAS443:3:53:1011:365#0/1
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@HWI-EAS443:3:53:1289:901#0/1
AGGCCATGGTGTCTAGGGCCCGATTGATGCCAGGGTCGA
+HWI-EAS443:3:53:1289:901#0/1
]a`a]`^^¥XWW]Z¥__]¥¥^W]_^]]_`UVZ^[DV]Y
@HWI-EAS443:3:53:1334:640#0/1
ATCCGACTCTACTTTTCTAAAAATTCCAGCGCAAATGC
+HWI-EAS443:3:53:1334:640#0/1
aa_aaaabaaa_aabbaababa`aa`aa_a_aaa_a`Z
@HWI-EAS443:3:53:1391:1040#0/1
TGAAGATTCGAACACAAATACCAGCAGAAATGCTAGCAAG
+HWI-EAS443:3:53:1391:1040#0/1
abaa`abaa_a^a_aaab_a_aa`a`aab_]aaa¥`_]`
@HWI-EAS443:3:53:1393:564#0/1
GTCCTCCATCTGATACTAATAGCCCTACCTTTGATTGGGT
+HWI-EAS443:3:53:1393:564#0/1
`¥VP_aaaaVZaaaaYb`aaa]Y`aa]]a`Q`[V]^_[0
@HWI-EAS443:3:53:1400:1933#0/1
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+HWI-EAS443:3:53:1400:1933#0/1
aa]bbabb`abbaaba_aa`Za]a_¥a_a_Z_a^MX^
@HWI-EAS443:3:53:1429:775#0/1
GGGGCAATGAAAAGAAGCCAAACTGGCAAATGTTGTGAG
+HWI-EAS443:3:53:1429:775#0/1
J_¥^Y[`bb^W]]¥ba__a`¥Z_X`^a`b`aa[abb[VZa
@HWI-EAS443:3:53:1442:1395#0/1
CTCTTACTCTCCTTTTCTTTGAAAGTGGGTTGTTATCTC
+HWI-EAS443:3:53:1442:1395#0/1
ababaabbab_abbbb`_babab`bbaba`abbaaY`¥`Z
@HWI-EAS443:3:53:1532:1121#0/1
GGCTAATTTTAGCATGGAGCTACCCAGCTTTGGAGTGTCT
+HWI-EAS443:3:53:1532:1121#0/1
ab]`Ua[bV]_aN]aba]S[a[¥`]]aY[`ba^Y_T_^W`
@HWI-EAS443:3:53:1553:902#0/1
CCAAAGCTGGGTAGCTCCATGCTAAAATTAGCCACAAATC
+HWI-EAS443:3:53:1553:902#0/1
`b_ba`¥bb`aa[[¥aab^a]``Ya```a`DDRHa_a_U
@HWI-EAS443:3:53:1582:472#0/1
CCCAGTGATTGTGAAAGAAATCTCTGTGTCTTGTGAATTA
+HWI-EAS443:3:53:1582:472#0/1
a`a[GWZ^bb^aaabaaaaab_babba`a`b`U[UJ_aaU
@HWI-EAS443:3:53:1591:1750#0/1
GGCTTTCCTTGAAGAATCCCACCCAGGAATATTTGAGAAT
+HWI-EAS443:3:53:1591:1750#0/1
ab[a`Y¥abaaaa`Vba_aQ`]a[_bbZ^b__aa[a]Q]_`
@HWI-EAS443:3:53:1623:891#0/1
CAGATCTTCATGATCTCAGAGAACTCTTCTTTCTTGATCC
+HWI-EAS443:3:53:1623:891#0/1
a``bbbb`aabbbbbbb`Ya]bbbbbbbabba_bbbabaR
@HWI-EAS443:3:53:1633:952#0/1
ATCCCACTAACTTGCAGGTCCTGTAGAATCTGTCCACTC

+HWI-EAS443:3:53:1633:952#0/1
abaab_]bbbbM_abbaZa[a_a¥_[aabb`b`^aa¥`Z
@HWI-EAS443:3:53:1647:1254#0/1
AAGAGAGGCTATCTAATAAGAGCACTGACATTAATACGA
+HWI-EAS443:3:53:1647:1254#0/1
aa_ababb]b_XRU0^XX^QYXLQTY¥LTY^ZRZ`VVNYS
@HWI-EAS443:3:53:1667:416#0/1
ATCGTATTTAATGTCAGTGCTCTTATTAGATAGCCTCTCT
+HWI-EAS443:3:53:1667:416#0/1
abb_X__abbaZ`aaaaVPT_G`bbbb^_^bTWSM]Y_Y`
@HWI-EAS443:3:53:1679:1281#0/1
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+HWI-EAS443:3:53:1679:1281#0/1
Z__[a`U`bb`aaabbab[]aaab`aYb`aa`a`babb¥
@HWI-EAS443:3:53:1708:1505#0/1
TTTTGTTTGAACAATTATGGGTGCCATGCTCAGGATGTT
+HWI-EAS443:3:53:1708:1505#0/1
ab``aabb`]U^^[aaaa^a¥¥][Xa_W[UR]`[^Y_Y^
@HWI-EAS443:3:53:1722:342#0/1
AATTTTAGCATGGAGCTACCCAGCTTTGGAGTGTCTGGAG
+HWI-EAS443:3:53:1722:342#0/1
a^¥bbbaa_]aa]``aba^a_a]aa_L[a^TV`_b^_ZN
@HWI-EAS443:3:53:1733:568#0/1
CGGATTGATGCCAGGGTCGACTTCGAGTCTGGACGGATCA
+HWI-EAS443:3:53:1733:568#0/1
abaaba]abZ`a]bbb]b¥`bab_bbbba_[I`]bbb]Z^
@HWI-EAS443:3:53:1745:968#0/1
GAGCTAATGGATGATGATTATCGGGGAAGACTTTGTAATC
+HWI-EAS443:3:53:1745:968#0/1
a]]`ba_ba^[_a^`ba[^Y`^OY^^[PZa`[`¥Z[]
@HWI-EAS443:3:53:1747:1619#0/1
GACAACATGACCAAGAAGATGGTCACGCAAAGAACAATAG
+HWI-EAS443:3:53:1747:1619#0/1
ab``^`b^aa_a_abaaaa_aa__a`a``_a`Z`_a``
@HWI-EAS443:3:53:221:1147#0/1
AACAAAGACTGAATAAGAGAGGCTATCTAATAAGAGCACT
+HWI-EAS443:3:53:221:1147#0/1
^ba```b`bbbbba^Zbb`]_abb`a_]`_^]WPI[YQBB
@HWI-EAS443:3:53:264:807#0/1
CACCAATACTCAGAAAAGGGAAAGTGGACGACAAACACAG
+HWI-EAS443:3:53:264:807#0/1
abababbabb]bbbaabb`aaba`aab`bbbaabbbabb
@HWI-EAS443:3:53:298:918#0/1
CTAGGGAAAGGGTACATGTTTCGAGAGTAAAAGAATGAAGA
+HWI-EAS443:3:53:298:918#0/1
Y`_a____¥^¥NaVab`¥bXbbabbaaY^a[S[`b_S[bba
@HWI-EAS443:3:53:344:1167#0/1
AATGGAATCAATGAACAAAGAGGAAATAGAGATAACAACC
+HWI-EAS443:3:53:344:1167#0/1
aaba`abbbbabaabbaaaaa`bbbbbb`ab`abaaa`]Y

@HWI-EAS443:3:53:351:2023#0/1
ACCCGAGTGGTTCAGAAACATCCTGAGCATGGCACCCATA
+HWI-EAS443:3:53:351:2023#0/1
_a^_a^V^X[___^_¥`aaa]]^_`^^a_YNYa``[]`[
@HWI-EAS443:3:53:359:1821#0/1
CTACTTTTCCTAAAAATTCCAGCGCAAAATGCCATAAGCA
+HWI-EAS443:3:53:359:1821#0/1
]b^U[¥a`_X`YRZQZ`bYL^Waabb`aaa`P_babb^ba
@HWI-EAS443:3:53:363:578#0/1
CAGAAATCAACCGGCAGCAACTGCATTGGCCAACACCATA
+HWI-EAS443:3:53:363:578#0/1
abbb`_bbbbbabbbbaaaaab`U`aa```a`Z__`_`a
@HWI-EAS443:3:53:384:1089#0/1
ACCAATACTCAGAAAAGGGAAAGTGGACGACAAACACAGA
+HWI-EAS443:3:53:384:1089#0/1
[`baX`abbb^^aaa^aa_Y[¥]H_b¥Xaa_ab]_]`aa]
@HWI-EAS443:3:53:398:1582#0/1
CAGAATCAATCTCTTTATGACTGACAAAGGGATTGAGGGG
+HWI-EAS443:3:53:398:1582#0/1
`__bba`bbbbabb_b_bbbaababb`a```a_ba]_[
@HWI-EAS443:3:53:404:501#0/1
GGCCATGGTGTCTAGGGCCCGATTGATGCCAGGGTCGAC
+HWI-EAS443:3:53:404:501#0/1
W)`aa`¥`]b`aa``aaa`]b`__a``aa`]`aaV_aZW
@HWI-EAS443:3:53:486:403#0/1
ATCCCTCATGGTTTGGTGCATTCACTATGAGAGCAAAAT
+HWI-EAS443:3:53:486:403#0/1
aaaa¥abaZabbaa`a`Y`_aab``]aabb`_^_Q^``^_
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+HWI-EAS443:3:53:503:1512#0/1
^aWVab[a[_`^_¥a_ba_U[```_aaaa^```]a_]ZK
@HWI-EAS443:3:53:519:873#0/1
CATGGTGTCTAGGGCCCGATTGATGCCAGGGTCGACTTC
+HWI-EAS443:3:53:519:873#0/1
¥_¥]X]XW]]T[a`X^]T¥_`b`_ba`[```a^a_ZX``^
@HWI-EAS443:3:53:528:1137#0/1
AAAAATTCCAGCGCAAAATGCCATAAGCACCATTCCT
+HWI-EAS443:3:53:528:1137#0/1
][Ya`aa`S_Z`¥]^[[^]Z_`]_b`b[a]aa`a````]`a
@HWI-EAS443:3:53:53:1714#0/1
TTGCGAAAAGCTTGAACAGTCTGGGCTCCCAGTAGGGGGC
+HWI-EAS443:3:53:53:1714#0/1
`bba_R_T^^]_^]bab_R^a_¥aaYMZ]T^R`a¥¥X^]
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GGCTAATTTTAGCATGGAGCTACCCAGCTTTGGAGTGTCT
+HWI-EAS443:3:53:570:847#0/1
abbbb_bb`bbbaa`b`_a^baaa`Vq]aaa`]]a_a_[a
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GTGTGTTCTGTTTACTGTGTCCATGGTGTATCCTGTTCT

@HWI-EAS443:3:53:736:112#0/1
GGTGTCTAGGGCCCGGATTGATGCCAGGGTCCGACTTCGAG
+HWI-EAS443:3:53:736:112#0/1
^b¥a`aaaaa[^Zab__`¥`^_^^`__W^^W^^U^U^
@HWI-EAS443:3:53:740:806#0/1
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+HWI-EAS443:3:53:740:806#0/1
`aabababaababbabb_S¥b_a]¥abaVaZ`bbaaa`^Z
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+HWI-EAS443:3:53:741:1822#0/1
a[bb`¥[abaaabab`_Y]I`YbSaaaT`_ab_`^WP]aX
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GCTTGAACAGTCTGGGCTCCCAGTAGGGGCAATGAAAAG
+HWI-EAS443:3:53:742:475#0/1
a_a`aaaa`_]__¥`^_] [¥aUS]^`_a¥W^`_Y^^^
@HWI-EAS443:3:53:749:1569#0/1
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+HWI-EAS443:3:53:749:1569#0/1
])aab^`_a`[a`aaa_a`Ya_b`a[_Z``aT¥__¥QBBB
@HWI-EAS443:3:53:75:1543#0/1
GCCTTATTTTCTCAATTTTCTTCTTTGTTGATTCATTGAA
+HWI-EAS443:3:53:75:1543#0/1
a^Za_`abb^`aJ__`^YZ[¥a[`aa^abaa`_a_aY`_`
@HWI-EAS443:3:53:777:683#0/1
GAATCCCACCCAGGAATATTTGAGAATTCATGCCTTGAAA
+HWI-EAS443:3:53:777:683#0/1
aa`b`_aa````aa`abaaaa_aa`aa__a^`^a_a`]`
@HWI-EAS443:3:53:78:1791#0/1
CCTCTTTGTTTCATTGATTCCATTACATCCTTTAAGAAATC
+HWI-EAS443:3:53:78:1791#0/1
¥ba_a_`^W`^`a__UYa`a_`^`_`_¥W_[a_`W][^`]
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@HWI-EAS443:3:53:851:1201#0/1
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+HWI-EAS443:3:53:851:1201#0/1
`bbaa¥S_bbb^aaabbaa¥S¥ab`bbb`abSZ`abba]Y
@HWI-EAS443:3:53:851:1801#0/1
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+HWI-EAS443:3:53:851:1801#0/1
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@HWI-EAS443:3:53:867:237#0/1
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^_Y`ba_abb`Zaa^a_Xa]`abaa^`aaaaSa¥abbaaa
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abaaababb`baa_`baZb^`b_`Y_aa_aaWa^]a]X`Z
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[`b_bab¥`^Vbaa_`ab`b`]L_aXbS¥^bb¥Vb¥Y`a
@HWI-EAS443:3:53:939:2024#0/1
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+HWI-EAS443:3:53:939:2024#0/1
`V_baa`aa`aSPU]WS^`[a__[]a^Ta_`]W^¥`Q_Z¥
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+HWI-EAS443:3:53:940:95#0/1
]b``¥_H_R_a_U`NXa¥V_Zaaaa_`^ [VY¥_a_]SU]R
@HWI-EAS443:3:53:995:130#0/1
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+HWI-EAS443:3:53:995:130#0/1
aa`abbbbbbbbbbabbbb``bbbbbbbbbb`babaaa¥a
@HWI-EAS443:3:54:1004:1217#0/1
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+HWI-EAS443:3:54:1004:1217#0/1
_MY¥X`[` [¥a¥]RZb_N^a`_a`0]T]aaRS_NX_^^¥
@HWI-EAS443:3:54:102:798#0/1
GACGGATCAAGAAAGAAGAGTTCTCTGAGATCATGAAGAT
+HWI-EAS443:3:54:102:798#0/1
aaaab_`aaaa_a_]_a_`a[_` ``aa_a_` `` _` [^^^
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+HWI-EAS443:3:54:1032:2045#0/1
a_U__b[aI`W_SW`UYabaOREL¥RYaaSWT]`aaHS__
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+HWI-EAS443:3:54:107:1007#0/1
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+HWI-EAS443:3:54:1099:1300#0/1
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@HWI-EAS443:3:54:1100:227#0/1
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+HWI-EAS443:3:54:1100:227#0/1
Z`babbaab_bbbbbbbbbbb^bba`^ababbb`aabaa
@HWI-EAS443:3:54:1125:850#0/1
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+HWI-EAS443:3:54:1125:850#0/1
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+HWI-EAS443:3:54:1169:1106#0/1
ababaaa`_]_a`¥KU¥]¥_]U]T^_]¥TU`^MXQNU[L
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+HWI-EAS443:3:54:1171:303#0/1
^b`aabb`bbabbab_babbbaababbb]bb_abbbbbbaa
@HWI-EAS443:3:54:1173:1961#0/1
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+HWI-EAS443:3:54:1173:1961#0/1
`YG_aVaa^`^_a¥V`U`_[GUZGOTZ^a]^VG¥SXQN
@HWI-EAS443:3:54:1210:158#0/1
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+HWI-EAS443:3:54:1210:158#0/1
Iabbabb`aba`bbabb`]^`^`_W_bb`^^abbTaa[U]a^
@HWI-EAS443:3:54:1253:1190#0/1
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+HWI-EAS443:3:54:1253:1190#0/1
Zabbaabbbab`a_a_ab__b`aaa`aaaaba_aaaXT_]`
@HWI-EAS443:3:54:1266:423#0/1
GATCCGTCCAGACTCGAAGTCGACCCTGGCATCAATCCGG
+HWI-EAS443:3:54:1266:423#0/1
^`aa`aaaaaa`__`^`_a_R[]OU`¥`^`[X]`]]UO¥`¥
@HWI-EAS443:3:54:126:895#0/1
ATCCGACTCTACTTTTCCTAAAAATCCAGCGCAAAATGC
+HWI-EAS443:3:54:126:895#0/1
aaaaa`aa`a^`aaa^`aaaaaaaa`W`^`^`_a`^`____
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+HWI-EAS443:3:54:1275:1056#0/1
a]_¥_bbaVZ_W¥]PabJa^aaaaa^^aaaaaa_aa_`^`
@HWI-EAS443:3:54:1296:2012#0/1
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+HWI-EAS443:3:54:1296:2012#0/1
U`a`a`a`b¥`^`abb¥]¥baaQ]_a`^`^`aaZZ]_a_TX`0
@HWI-EAS443:3:54:1301:1346#0/1
GCAAAATCGTCGGATGATTGGAGCCCATCCCACCAGTATA
+HWI-EAS443:3:54:1301:1346#0/1
a`aKa_]`[TR`Y`_`_Z^`_`_W`^`_T`_]¥]XWWUXW][
@HWI-EAS443:3:54:1327:23#0/1
GAGGAAATAGAGATAACAACCCACTTTCAAAGAAAAAGGA
+HWI-EAS443:3:54:1327:23#0/1
`^`bbaa`b]bbbabbaaaaa`^`^`aa____]b[Z]a^aa`
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+HWI-EAS443:3:54:132:316#0/1
abbbabbbbaaaabaaa¥`Xa_aaa]_^^`_`a[[`aW^^]
@HWI-EAS443:3:54:1342:795#0/1
GTGGGTTGTTATCTCTATTTCTCTTTGTTTCATTGATTCC

+HWI-EAS443:3:54:1342:795#0/1
`G`a_I^^]ZJS^_aYZ`aa`_``^_a^__^^^_]^`^¥
@HWI-EAS443:3:54:1345:722#0/1
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+HWI-EAS443:3:54:1345:722#0/1
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@HWI-EAS443:3:54:1355:505#0/1
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+HWI-EAS443:3:54:1355:505#0/1
abbaaaa_baba`bbbaaaabbaaaaa_aaa_b`aaa`a`
@HWI-EAS443:3:54:1367:692#0/1
GATGTCAATCCGACTCTACTTTTCCTAAAAATCCAGCGC
+HWI-EAS443:3:54:1367:692#0/1
aaaa`_aaa^`]]`a]`aaa^aaaa`aa^]_]¥`Z
@HWI-EAS443:3:54:1406:37#0/1
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+HWI-EAS443:3:54:1406:37#0/1
abb`bbbbWbab_bbaba`abbY^_aba`^aaaa^Qab`
@HWI-EAS443:3:54:153:1508#0/1
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+HWI-EAS443:3:54:153:1508#0/1
`X`ZYZ]]^VZ^__RDIV^YX]]Y¥RNYZ¥UVNWSWFN^Y
@HWI-EAS443:3:54:1595:1474#0/1
AGGCCATGGTGTCTAGGGCCCGATTGATGCCAGGGTCGA
+HWI-EAS443:3:54:1595:1474#0/1
`__]TZW¥_VT[I_aaTaZY`bb]a_P_aaZRaa]`SP`¥
@HWI-EAS443:3:54:1617:996#0/1
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+HWI-EAS443:3:54:1617:996#0/1
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@HWI-EAS443:3:54:1635:310#0/1
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+HWI-EAS443:3:54:1635:310#0/1
abbb_a`a`ba_b_]aaZb_a^^^`Y_WLU^`_W]a__[
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+HWI-EAS443:3:54:1636:974#0/1
¥`bbabbababaaababbabbbbaabbbababaaaba_ab`Y
@HWI-EAS443:3:54:167:83#0/1
CTGCTAGGGAAAAATTTCTCGAATAGATTGCAGCACTTCT
+HWI-EAS443:3:54:167:83#0/1
abbababbbababaaabaa`bab__a_b`aaaa`a_`aa`a
@HWI-EAS443:3:54:1739:1667#0/1
GTTGATCCCACTAACTTGAGGTCCTGTAGAATCTGTCC
+HWI-EAS443:3:54:1739:1667#0/1
a_`a[aaa_U^[`__V^_T^__W^Q`][V[[]^W_]VQQ
@HWI-EAS443:3:54:1742:1755#0/1
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+HWI-EAS443:3:54:1742:1755#0/1
¥aa^`bbbababbbbaabbbb_aaabaa_``^Z`_```

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+HWI-EAS443:3:54:1771:1511#0/1
¥[``Vabb`¥`_b_]babb`b¥¥a_bbabaa`[_a^`a^U
@HWI-EAS443:3:54:196:1158#0/1
ATCTGTCCACTCCTGCTTGTATTCCCTCATGGTTTGGTGC
+HWI-EAS443:3:54:196:1158#0/1
abaaaaaaaaaaaa_aa`aa__aa_]_`_`aa¥_a`]ZTa^
@HWI-EAS443:3:54:213:1046#0/1
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+HWI-EAS443:3:54:213:1046#0/1
ab`^Pa^¥aRI_Q¥T`^[UZRYNSS[MRTVNX^UMVGZQV
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+HWI-EAS443:3:54:243:1280#0/1
ab]Za``aaa]a`a]a`X^`a]VZ__^`Y^_``_Z_]^V
@HWI-EAS443:3:54:27:915#0/1
GTCCTCCATCTGATACTAATAGCCCTACCTTTGATTGGGT
+HWI-EAS443:3:54:27:915#0/1
aSa`a`_]``aa`¥_`__a____][[Z]_`_`_]X_^WZ
@HWI-EAS443:3:54:300:1295#0/1
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+HWI-EAS443:3:54:300:1295#0/1
abaa`bb_bab`]_[__aaa`b_a`a][_a__ba^^a`][
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+HWI-EAS443:3:54:315:748#0/1
aaaaa``baaab]aa]`]ZI¥_aaaa]]S]PZ`a_a[¥_¥
@HWI-EAS443:3:54:319:508#0/1
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+HWI-EAS443:3:54:319:508#0/1
aa_]a`ba_^`aaaa`^^`^^aaa```^a^_]a`YZa¥
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ATTGAAGAGCCATCTGGGCCGTTGCAGGTCCAAGGTCATT
+HWI-EAS443:3:54:340:334#0/1
a^`¥Yaba_[VZU^Z[_aUT]SX]Z¥a`ITIZ`aVDEM]Y
@HWI-EAS443:3:54:342:50#0/1
GTCCACTTTCCCTTTTCTGAGTATTGGTGTGTTCTGTTTA
+HWI-EAS443:3:54:342:50#0/1
abba]`abbV]__a`^]aaG_¥L_aaa¥a_b_a[aa____Z
@HWI-EAS443:3:54:369:1423#0/1
ATTTTGTGGAGAACATTATGGGTGCCATGCTCAGGATGT
+HWI-EAS443:3:54:369:1423#0/1
abbbb_abbabb`ab_a_a`_`_0_^`Y¥]]^]]^W]UX
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+HWI-EAS443:3:54:40:850#0/1
aaaa_a_aaaaaaaaaa__^a`__a[V`]`a``____`_Y
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ab[Z][```abbbbZ^baaba`Zab^ba`a_Y_babaa
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+HWI-EAS443:3:54:45:655#0/1
a^U¥[T_Qaa_`__a^^S[W[¥W[]UZU^__V__WUUU
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+HWI-EAS443:3:54:469:1792#0/1
aaaaaaaa`a_aXa`¥a`_a_a_Z`__`Z^_]^_]_Z^
@HWI-EAS443:3:54:479:792#0/1
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+HWI-EAS443:3:54:479:792#0/1
abbbbb`bbaaaaaab_abbba`aaaaa^aaaa`Ya`a
@HWI-EAS443:3:54:488:22#0/1
TAGCTGTTAGGCCATTTCGATCTAAAGACTTCTATGGTGTT
+HWI-EAS443:3:54:488:22#0/1
a¥GP[^```abZ¥N`^]_VYX¥XZ]UGROXV]_[STG^[Y
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+HWI-EAS443:3:54:50:529#0/1
`bbaaaabbaaabababbaa_abb`aa]`b_aaba_b]b
@HWI-EAS443:3:54:513:693#0/1
GTCTGGAGTAAATGAATCAGCTGACATGAGTATTGGAGTA
+HWI-EAS443:3:54:513:693#0/1
Zb`¥abaaba`[_`a`¥ZZa_S]]``]b`_a¥SYYYYX^
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+HWI-EAS443:3:54:538:1785#0/1
`Ua_[a```_]V_a`]T`]X]Z¥]]YP_VU^TR¥^[_U_
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+HWI-EAS443:3:54:572:1789#0/1
]a`aa_aaaab_aaaaa`____`__a_a`_``a`_]_]_^
@HWI-EAS443:3:54:613:1904#0/1
GCATTTGCGAAAAGCTTGAACAGTCTGGGCTCCAGTAGG
+HWI-EAS443:3:54:613:1904#0/1
ab¥bb`ba`ZT`b_¥]U`V^^]`^aa`_[`Q_a]Ma¥^^^
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CAGAAATCAACCGCAGCAACTGCATTGGCCAACACCATA
+HWI-EAS443:3:54:655:2012#0/1
Xaaabbbabbaa¥W[[]]``]`RO_¥¥^H¥]a^X]a¥U^[
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+HWI-EAS443:3:54:672:660#0/1
`b`babbaa___abbbba_ba`^bbHbb^R[ab^aa_ab[

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+HWI-EAS443:3:54:673:1129#0/1
_`aX¥J_a^aaZ]X¥`]^bba]0`^`]]IZa^`a`Y¥ZWX
@HWI-EAS443:3:54:683:17#0/1
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+HWI-EAS443:3:54:683:17#0/1
aa_``^b`a^__^a_^`W_^]^^_^]_^]aZSW___`Z
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+HWI-EAS443:3:54:689:938#0/1
abb¥^Y`bb`baaaba`aa_baaa^Y^`baa`YU[a_PYX
@HWI-EAS443:3:54:694:1073#0/1
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+HWI-EAS443:3:54:694:1073#0/1
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+HWI-EAS443:3:54:69:1191#0/1
a_^`a`a`¥aa__`_a`^^_aa[aaa^a^__V`U¥¥YP
@HWI-EAS443:3:54:702:397#0/1
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+HWI-EAS443:3:54:702:397#0/1
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AGCCTCTCTTATTCAGTCTTTGTTTTTCTCCCTATTGT
+HWI-EAS443:3:54:737:1403#0/1
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@HWI-EAS443:3:54:758:1598#0/1
ATCCGACTCTACTTTTCTAAAAATTCCAGCGCAAATGC
+HWI-EAS443:3:54:758:1598#0/1
__¥]_`aa`a`_]aa``aaba`X``¥¥_a[`_^`_]`X
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+HWI-EAS443:3:54:775:332#0/1
¥X]ZY[QG¥^WDJ]PZ[N`_W]X[WOO[VZG[YRJSV_NR
@HWI-EAS443:3:54:777:221#0/1
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+HWI-EAS443:3:54:777:221#0/1
^bbbbabbbbbbaab`R`aabaa_^a````aaa`a`b``ba
@HWI-EAS443:3:54:799:603#0/1
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+HWI-EAS443:3:54:799:603#0/1
abbbbabbaabaaaaaaaaba_a`a`¥Q_`^``]__`¥``
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+HWI-EAS443:3:55:1174:789#0/1
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+HWI-EAS443:3:55:1196:217#0/1
aa_`_a`_`¥_]YRW__¥a__[]a¥]Y]__]^_]_]Y__Y
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+HWI-EAS443:3:55:1207:592#0/1
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@HWI-EAS443:3:55:1223:989#0/1
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+HWI-EAS443:3:55:1223:989#0/1
^bba^aba`bbbbaaba`babaabb`bbbabaaaa`aaa
@HWI-EAS443:3:55:1260:1226#0/1
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+HWI-EAS443:3:55:1260:1226#0/1
aaba_bba_aaa`¥aXTQ` `a`]a` `¥¥a]aZa`aa]_`^
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+HWI-EAS443:3:55:1293:2000#0/1
aa_`_b[baa`aaaba__aY_baa^aa`a^aS¥KVOZ¥[Y
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+HWI-EAS443:3:55:1300:1747#0/1
Vb^Sa_W__abSb_G_0`b_`S`X¥^J^Z`GaIGab¥^_Z
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+HWI-EAS443:3:55:1313:459#0/1
abaabababba` `a^`_a`bbaaaaaabaa]__` `W`_`
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+HWI-EAS443:3:55:1318:1333#0/1
aa]X]¥aVM]aaY[^T[aYT`^_YNR[a^^_TQU][`^a[
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+HWI-EAS443:3:55:1390:389#0/1
aU[_abaa^aa`^a_aa^L]^S_[U¥aRa`^_`aY^Z__a
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+HWI-EAS443:3:55:1391:1761#0/1
]b]^`Ta^`aa_`X` `Zb`a`^^[X]_` `TN[¥b`aaa_`^¥
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+HWI-EAS443:3:55:1413:1010#0/1
^` `Z¥Y_`^Q]UV^`XY[L¥_X_VITLYYXV[N[OORXU
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+HWI-EAS443:3:55:1448:279#0/1
ab`b`aab_bbaaaYa¥`aaa_a^aU[``_U_[T]X_^W
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+HWI-EAS443:3:55:1459:72#0/1
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+HWI-EAS443:3:55:1510:692#0/1
aa]`aaa`abaa]_a_````_`^Y]PZa]a_`aZ_^0a_
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aa`_aaaa]b`[aaa`ba___a]_a`_`a`]W]`aY
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G]a¥¥¥bbaY[`bbbaZ]¥____bbba]a`a__ZX_Vaa_
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+HWI-EAS443:3:55:1658:1274#0/1
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+HWI-EAS443:3:55:1678:1172#0/1
Vb`I¥ba`b_0]^]aZU^^T^`_^`_^`V¥_OMPL]R
@HWI-EAS443:3:55:1694:32#0/1
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+HWI-EAS443:3:55:1694:32#0/1
Z_bZ`¥Z^_a`Y^a[¥^¥`XT¥aaa`K_ZY`TPY[[`a
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+HWI-EAS443:3:55:1719:471#0/1
ab_a`ZZ```^]a`^Z`[VX]a]_QW¥[X_^Q[¥VZV
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+HWI-EAS443:3:55:1731:243#0/1
aaababb_Zaa[^`aaaaa`^`__a`aa`a`aaZa_]^^
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+HWI-EAS443:3:55:173:793#0/1
`aaaaab^aba^aaa`_`aaaa`aa]^`^a^¥[X]_¥

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+HWI-EAS443:3:55:1741:211#0/1
`_^W`ba^]aUaXU_a_aY^^X__`_XK`H[]`aR[¥QJQ
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+HWI-EAS443:3:55:1778:443#0/1
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+HWI-EAS443:3:55:185:1695#0/1
aaaaaaaaYaaaaaa]`]aba`aW]`__`_`a_a]_``____
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+HWI-EAS443:3:55:193:1733#0/1
a_a_aa^_^_a`_aaa`_`_]^[_[^____]_^_]^[Z]]__
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+HWI-EAS443:3:55:20:1527#0/1
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@HWI-EAS443:3:55:224:1022#0/1
AGGGCTATTAGTATCAGATGGAGGACCAAACCTATACAAT
+HWI-EAS443:3:55:224:1022#0/1
¥][X]a`aa_^Waa]]aaaaT_aWXTSV``aaaa``^[[
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+HWI-EAS443:3:55:229:2031#0/1
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+HWI-EAS443:3:55:282:57#0/1
_ba_Q_b`^`aa¥]b^^aa^_N_¥T]`a¥W`_V]¥Y^`U
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GACGGATCAAGAAAGAAGAGTTCTCTGAGATCATGAAGAT
+HWI-EAS443:3:55:30:822#0/1
ab`¥X^_aa`a¥a^^`]`_aXa`a`a_0_``__`a____`^
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CTGGGCTCCCAGTAGGGGGCAATGAAAAGAAGCCAAACT
+HWI-EAS443:3:55:311:854#0/1
abb_[_T`^`]a[_^`aaaY^¥aa_QUW^`][^^^¥`_`¥
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+HWI-EAS443:3:55:344:1774#0/1
```b]`[aba]¥¥]X`baaaa`aaaaaa``^a`a^a\_a  
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+HWI-EAS443:3:55:360:1223#0/1  
aaaa`aaaa^aa`a^\_\_abab`aaaba\_aa`a\_`]`^ZZ]  
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@HWI-EAS443:3:55:549:204#0/1  
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+HWI-EAS443:3:55:549:204#0/1  
abbabba`a\_`a\_baa`^`[\_`\_a^V¥aab`[\_a\_a`\_W\_aa  
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+HWI-EAS443:3:55:587:39#0/1  
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+HWI-EAS443:3:55:598:1432#0/1  
aaa`aaaaa[aaa\_\_a`^aa`\_\_Y`^a¥X^^`\_\_PPV  
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+HWI-EAS443:3:55:657:1095#0/1  
abaa`aZb\_`¥`Ya\_`aaa`aa`\_`\_`\_¥a`aa^a^`a  
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+HWI-EAS443:3:55:689:224#0/1  
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+HWI-EAS443:3:55:719:402#0/1  
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GAATCTGTCCACTCCTGCTTGTATTCCCTCATGGTTTGGT  
+HWI-EAS443:3:55:736:349#0/1  
a\_[aaaa^\_a\_\_\_\_\_``````\_``\_]`^`^`^`a\_]\_\_\_\_`V  
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TTGATCCCACTAACTTGCAGGTCCTGTAGAATCTGTCCA  
+HWI-EAS443:3:55:738:940#0/1  
^F]`^aa]¥a`\_[]\_aaa`\_a\_Y^^]`^`^`]`^`^VYV^  
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+HWI-EAS443:3:55:779:412#0/1  
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@HWI-EAS443:3:55:824:1512#0/1  
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+HWI-EAS443:3:55:824:1512#0/1  
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+HWI-EAS443:3:55:844:1219#0/1  
a^¥bababbb¥^a`^a][¥0¥^a`\_]\_\_a^[Y]ZaaV^\_  
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+HWI-EAS443:3:55:845:731#0/1  
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+HWI-EAS443:3:55:857:295#0/1  
aba`aa¥a\_`aaaZ¥a^`^Z`\_```\_\_\_\_[`a]Y]Z^^`\_\_\_\_  
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+HWI-EAS443:3:55:884:1042#0/1  
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+HWI-EAS443:3:55:894:341#0/1  
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+HWI-EAS443:3:55:949:594#0/1  
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+HWI-EAS443:3:55:993:100#0/1  
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ab` `^` ab\_aZQaa^X[aaaa^[\_`Wa` ` `a^aaa`aa`\_`  
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+HWI-EAS443:3:56:1102:1517#0/1  
]¥\_b`a^\_L^\_]X` `¥TYY¥]]aXY]a]¥[\_S\_aXZ[aPQ  
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+HWI-EAS443:3:56:1119:1064#0/1  
a^^¥aV`bb^¥a`abbaZa\_` `aaaa`^b¥aaab^[a\_ba  
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+HWI-EAS443:3:56:1135:1203#0/1  
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+HWI-EAS443:3:56:1139:1328#0/1  
^a\_\_[\_`aa\_aaaa\_aa`X]\_a\_a` [¥a` `\_\_aa`]Z\_¥\_a



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a`aba\_baaaaaaa`\_aa]a\_aaa\_]a^^^a`Z\_\_^^^  
@HWI-EAS443:3:56:1204:1493#0/1  
GAGGAAATAGAGATAACAACCCACTTTCAAAGAAAAAGGA  
+HWI-EAS443:3:56:1204:1493#0/1  
a`ab\_\_`a`a\_a`aaa\_aaSX^\_]`a`]`Y\_a\_\_\_\_]``\_¥  
@HWI-EAS443:3:56:1219:737#0/1  
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+HWI-EAS443:3:56:1219:737#0/1  
[JaaZaUaa\_^[\`a[\`Xa]`[\`\_H\_\_`T]]SYMVNU^]U]  
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CAAACCATGAGGGAATACAAGCAGGAGTGGACAGATTCTA  
+HWI-EAS443:3:56:1247:518#0/1  
\_\_b``ba``abbbaa`aabab`aba]a]aaa^Wa[``\_V]]  
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+HWI-EAS443:3:56:1286:228#0/1  
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@HWI-EAS443:3:56:1306:1617#0/1  
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+HWI-EAS443:3:56:1306:1617#0/1  
a[¥``aa]aaaa`Y`\_WZ]X^Ya]a``\_a¥F[\_^]\_X\_X  
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a\_aaaaaaaa\_aaaaa\_aa`Za^^^a^a`\_`\_[a\_Z]\_\_^\_  
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+HWI-EAS443:3:56:142:1348#0/1  
a`aa`aaa`Vaaa`a^V`]^^^Y\_^\_^¥`a\_\_\_\_]\_\_\_\_Q¥^  
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+HWI-EAS443:3:56:1484:606#0/1  
aa\_abaaaa`baaa`^aaaa`\_a^\_aa^aaa\_a`a`\_`  
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+HWI-EAS443:3:56:152:1857#0/1  
`a[`]^b`bb`Z`RZ¥`Za]NV]a]0]\_]`Y`\_\_[[\_\_  
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GATCTTCATGATCTCAGAGAACTCTTCTTTCTTGATCCGT  
+HWI-EAS443:3:56:1542:1530#0/1  
a\_^[\_`\_\_a\_P\_XN\_GW\_]aV]^]V`aXa]]T``^\_NFNS  
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+HWI-EAS443:3:56:1548:52#0/1  
a\_Iaa\_bbb¥`¥`\_`^R`\_0¥]aa`^Q^aba`\_aab]TY  
@HWI-EAS443:3:56:1550:1348#0/1  
GATTGGAACACAAATACCAGCAGAAATGCTAGCAAGCATT  
+HWI-EAS443:3:56:1550:1348#0/1  
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+HWI-EAS443:3:56:1558:1654#0/1  
aaa\_T\_Wa¥`^U]\_]\_]W[NY^UY[Y¥[^]V¥aaZ]NRS  
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+HWI-EAS443:3:56:1563:1550#0/1  
aba\_bab\_bbab`bbbRbbbbZZ\_\_aaaa\_\_baba``^W  
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+HWI-EAS443:3:56:1563:79#0/1  
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+HWI-EAS443:3:56:1584:1448#0/1  
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@HWI-EAS443:3:56:1618:59#0/1  
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+HWI-EAS443:3:56:1618:59#0/1  
aa`bab`\_`a\_ba`aa`^^`\_a^S[[S[\_^¥[U\_WTSa^WV  
@HWI-EAS443:3:56:1648:1549#0/1  
TGGCACCTATATGTGTATCTGTAGTCTTTGATGAACAATT  
+HWI-EAS443:3:56:1648:1549#0/1  
^^R^XTP^a^ab¥PZNS]WXWT`UM]bU\_\_Ra]QRX]\_^  
@HWI-EAS443:3:56:168:1529#0/1  
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+HWI-EAS443:3:56:168:1529#0/1  
Zab^[aS\_ZaaS]aa¥]Y\_U¥`aaa^Z`\_aa^a`^^^Z^

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+HWI-EAS443:3:56:1715:954#0/1  
aUWFY`]aa^W^]^[U[]`]X^^[]RZ^^SXVaX¥[PVWT  
@HWI-EAS443:3:56:1764:1534#0/1  
ATCCCCCTTTGGCTTGTGTTGAGAATAGAACGATTCCCTCT  
+HWI-EAS443:3:56:1764:1534#0/1  
`abQO[Ib\_`b\_\_`\_\_WU`^`^aX\_`^Pa`Ya^NWPWYVY  
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+HWI-EAS443:3:56:1781:1199#0/1  
¥a]¥R]a`\_¥¥RYW[QS\_\_Z`YMDVTV[SYTVRQYZVBBB  
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+HWI-EAS443:3:56:189:1151#0/1  
aa`X¥^aa¥\_\_aTKFX\_YaSUXX^I`\_HXYOW¥0^R^W  
@HWI-EAS443:3:56:215:592#0/1  
GCTTATGGCATTGCGCTGGAATTTTAGGAAAAGTAGA  
+HWI-EAS443:3:56:215:592#0/1  
a\_aa\_`aa\_`a\_]a\_`a`^X\_\_`^`^aWY^X^`X^\_\_  
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+HWI-EAS443:3:56:252:875#0/1  
aaa`^`aaaaaaaa`a`\_a\_a^[^a`a`\_````\_`\_\_^`  
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+HWI-EAS443:3:56:261:1163#0/1  
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@HWI-EAS443:3:56:269:87#0/1  
GTCGGATGATTGGAGCCCATCCCACAGTATATTGTCTTG  
+HWI-EAS443:3:56:269:87#0/1  
^[`a¥¥¥aU^^baT\_X\_ZSTZXZZ¥]P^XYQ[W\_QL¥^]  
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AGGGTCGACTTCGAGTCTGGACGGATCAAGAAAGAAGAGT  
+HWI-EAS443:3:56:369:736#0/1  
¥b\_WFYa`a\_`^YXJMwb^Q\_b¥NXaXaaa\_\_^O[[RVR  
@HWI-EAS443:3:56:37:605#0/1  
TGTGGCTAATTTTAGCATGGAGCTACCCAGCTTTGGAGTG  
+HWI-EAS443:3:56:37:605#0/1  
aa\_b\_\_^\_\_\_a\_a\_a`Z\_^]RZW\_YZ^\_R^Z^^`H^Z\_] ]  
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aaab^]a`aab`\_baa^aa\_abXX`aaa`]a``\_\_\_\_\_]\_^  
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+HWI-EAS443:3:56:426:944#0/1  
aaababba\_b\_a^aaaaababaY^`aaa\_`aaa]a``a  
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+HWI-EAS443:3:56:43:1441#0/1  
ab\_[]`aaa^^`b\_aaababaaZ`aa¥]a\_a¥`a\_a\_`\_\_\_\_  
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TAAAGAACAACATGATAACAATGACCTTGGACCTGCAAC  
+HWI-EAS443:3:56:516:293#0/1  
aa`aa`a`a¥^a`a`\_\_`a`\_`¥Z^\_]\_]\_^\_^\_]\_^\_^\_Z  
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+HWI-EAS443:3:56:532:1864#0/1  
`\_a[]`[ba``]U^b\_aaabbaaba`\_`a`aa`a`aa^^`\_`  
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+HWI-EAS443:3:56:582:642#0/1  
a`\_aaaaa]T^`¥aa`^Ha\_aa\_\_\_\_\_a` `[Z[]`ZQ\_¥`Z  
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GCCTCTCTGCATCTTTGGTCATCGTATTTAATGTCAGT  
+HWI-EAS443:3:56:594:812#0/1  
\_bbbababababaaaaaaaaa[]]```^\_aaaaaaaa^a`\_Y  
@HWI-EAS443:3:56:599:138#0/1  
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+HWI-EAS443:3:56:599:138#0/1  
ZT]R¥[]`\_^`]\_SZ`¥VZ\_a^YZ\_a^W\_aXZR[]`Z`^^Y  
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+HWI-EAS443:3:56:604:141#0/1  
S`\_]aS\_[YS`\_`¥VT]b]a`XTab]a`a`]]VaT^^^PY  
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+HWI-EAS443:3:56:605:1293#0/1  
a\_aa]ba`aa``\_a`a\_aa]aa\_\_\_\_\_``\_\_\_\_`aa\_\_a\_a`  
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+HWI-EAS443:3:56:615:62#0/1  
aa\_bb¥bbaabaa`^^^aVbbaa`b]baa`a\_ba`^Haa\_  
@HWI-EAS443:3:56:624:1727#0/1  
GTACCCTTTCCCTAGTCTTGCCATTTTGTGTTGAGAACATT  
+HWI-EAS443:3:56:624:1727#0/1  
]L\_\_\_\_aaa`\_[a`\_]`^a\_a\_\_\_\_\_^`¥P\_\_`W\_]^^`\_S  
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+HWI-EAS443:3:56:630:106#0/1  
aa¥`^`aa^\_[a^aa^aZa[^^]\_\_Z\_W[\_ZLR`W¥Z[[[S  
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+HWI-EAS443:3:56:63:864#0/1  
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+HWI-EAS443:3:56:642:1340#0/1  
a`VT0]`aa`aa^YV¥Y[R]¥][]`a`[]¥¥[[[LY``\_]XX

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`YYSN]\_\_[[W[\_Z¥]][\_`Z]]¥¥YPW^Q^YWYQYZX¥WN  
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TGGACCACTACCTGAGGATAATGAACCAAGTGGGTATGCA  
+HWI-EAS443:3:56:696:181#0/1  
abaa^aa\_aa\_aaa\_`\_`a`aa^\_^`\_`Yaa`Y\_\_]Y¥  
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+HWI-EAS443:3:56:706:1683#0/1  
]abbabababbbbbb\_\_baaa`aababbbbaaababab`  
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+HWI-EAS443:3:56:714:835#0/1  
aaababaaa`aa^baaaabSα]X\_`a\_a\_a]`aaa\_^a¥]  
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+HWI-EAS443:3:56:736:1281#0/1  
`a`X^bba^¥`baaaa\_a`aaa^`S]^`¥P¥a`\_`[YV[  
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a¥^[aa`a\_`a¥^a`UZaZaUYVW¥\_UTV^V``[U\_\_V^  
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+HWI-EAS443:3:56:814:1269#0/1  
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+HWI-EAS443:3:56:815:1193#0/1  
ab`^]\_a]^`b^`a`]^`b\_`aa]Z\_`]¥YP]\_a`aaa\_\_  
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aaaab\_`]^`[^R[XW0^aW[V`\_0]aa[aZ\_`[\_a]\_`U  
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+HWI-EAS443:3:56:8:955#0/1  
a`aaaa[`¥^Z]^`aY^^¥¥\_`\_¥^\_`\_`[^X\_\_[]YW¥XQ  
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+HWI-EAS443:3:56:91:12#0/1  
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\_\_`[\_]ababaa`aaaaa`\_`\_`aZa`]a\_aa`a\_`aaa\_  
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+HWI-EAS443:3:57:1053:1524#0/1  
a[RaM\_a^[a^¥TZ\_\_`b¥XXba`aaY]XaaYaR][aa[J  
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+HWI-EAS443:3:57:1087:194#0/1  
aWa`\_^a[\_W\_\_\_Z`aa\_U`UNX[[UUYU¥^U^W[[XKTU  
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+HWI-EAS443:3:57:1094:1197#0/1  
]a\_a`aab]b`aab`baaa\_aa¥`[]aaY]aa\_^\_\_`^^[  
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+HWI-EAS443:3:57:1102:1126#0/1  
a^^\_¥aa`aa`Ya]\_a`a`YY]\_\_GZ]^^\_X`X^]\_X  
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aaa`[\_`bbbaa`¥`^a`^aa\_]\_]aaa\_\_aaa`ZaQ\_`a\_  
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+HWI-EAS443:3:57:1158:421#0/1  
a\_bbaaaaaabaaa`^a`a\_aa\_\_^aa¥``a\_\_¥\_aaa\_^  
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aaaa]X[\_[ZZ`RSZ]b`a`\_]\_]\_UX]\_aa^^YSX`R  
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+HWI-EAS443:3:57:1172:1933#0/1  
a`VRabaYN¥\_\_bX`^\_\_`\_`Xa\_\_\_a[\_`¥\_^\_]\_S¥\_  
@HWI-EAS443:3:57:1177:1312#0/1  
TAATGCCAGCCCATGGTCCAGCCAAAAGCATGGAATATGA  
+HWI-EAS443:3:57:1177:1312#0/1  
abbbbaa`b``aaaaX^`[\_Z[]`a`^[\_`^a¥Za`a`\_\_  
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GAAGAGCCATCTGGGCCGTTGCAGGTCCAAGTCATTGTT  
+HWI-EAS443:3:57:1183:842#0/1  
]``Z```aa`^a`a```[]\_[]\_[U[]\_¥a`U^^\_¥^S¥  
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Yb]\_bbabSba`Y¥ba`ab\_aabaa]\_aV^¥`a]a\_]aaa  
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+HWI-EAS443:3:57:1215:817#0/1  
a`\_aZaaa`aa[abaa\_`^¥a^`\_\_X`\_a`\_]¥Y¥^[^\_

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+HWI-EAS443:3:57:1216:501#0/1  
a`ba¥aaaaa`\_aa`[\_`\_`¥¥[\_\_^]`^`\_ZX\_``¥^`\_`  
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GCGAAAAGCTTGAACAGTCTGGGCTCCCAGTAGGGGGCAA  
+HWI-EAS443:3:57:121:17#0/1  
``Z^Z\_]`^``aZ`\_a`^[^ZZSZRR]]S][QPN  
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+HWI-EAS443:3:57:1232:513#0/1  
][\_a`^`abaaab\_\_abaa^`¥M]`VX^aaaa]a`Va`a  
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+HWI-EAS443:3:57:1242:248#0/1  
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+HWI-EAS443:3:57:1249:816#0/1  
^¥\_¥\_abbbbbb\_b`]`^`^`a\_Y\_a]^`Y^X¥Z`a`[  
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+HWI-EAS443:3:57:1264:1104#0/1  
aba`]`a`^bbaaba^`bababaaa]aabba\_aab`\_a\_a  
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+HWI-EAS443:3:57:129:252#0/1  
^`]baa]bbaa^^]a¥a\_aa¥YY`]`^^¥PT^¥^Y¥U[^  
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+HWI-EAS443:3:57:1334:570#0/1  
\_\_[\_aab```\_X¥a`]baaZYHZ\_]LNV¥¥]V¥H]SN]^Y  
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+HWI-EAS443:3:57:1351:905#0/1  
aa]Xabbabbaabaaa¥`aab```\_a`aaa`¥aa`aa\_a^  
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GTGGGATGGGCTCCAATCATCCGACGATTTTGCTCTCATA  
+HWI-EAS443:3:57:1356:852#0/1  
aZ``^W¥a```\_`¥`\_¥`\_WW¥¥W\_W^\_]^^Y¥¥\_Y¥^^  
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+HWI-EAS443:3:57:1362:1139#0/1  
]`b¥bbba`a\_aaaaabb¥P¥bba\_aaba``Za`aa¥`b`  
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+HWI-EAS443:3:57:140:493#0/1  
\_a`aaa\_[]`Z`¥¥aa`a`a^`a`a`¥^^¥aNY`[R]  
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+HWI-EAS443:3:57:142:1927#0/1  
aaaa\_]\_a`a`\_\_Z`a^¥Y`\_\_^]]^[U`Y^\_X`\_^  
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+HWI-EAS443:3:57:1452:28#0/1  
ababbbbabbb^¥[aba[aa`b^P[``b`]aaaaZaa\_a¥  
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+HWI-EAS443:3:57:1462:444#0/1  
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+HWI-EAS443:3:57:1468:1616#0/1  
ab\_a[aa\_\_aa[¥`aa`\_aaa```a¥\_aaa]aa]a`^X^a  
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+HWI-EAS443:3:57:1473:140#0/1  
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+HWI-EAS443:3:57:1577:190#0/1  
`\_abb\_bbbb^ababb`b\_bbb`\_`bbb[`b]a`bb\_ba^  
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+HWI-EAS443:3:57:1578:1487#0/1  
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@HWI-EAS443:3:57:1578:256#0/1  
CTTAAAATGGGAGCTAATGGATGATGATTATCGGGGAAGA  
+HWI-EAS443:3:57:1578:256#0/1  
a\_ba\_baaba\_LJSbaaabab^ZJ`ZX`aaab]F[a[``\_  
@HWI-EAS443:3:57:1585:80#0/1  
GCCTTATTTTCTCAATTTTCTTCTTTGTTGATTATTGAA  
+HWI-EAS443:3:57:1585:80#0/1  
aa\_]RFWaa\_Y[Y^a\_XRZ¥`R]^`\_aa[\_\_¥Y[MTPX  
@HWI-EAS443:3:57:1586:2035#0/1  
CCAGGTGTTGCGATAGCCCTTCTTTTAACTTGCCTCTCT  
+HWI-EAS443:3:57:1586:2035#0/1  
abaaaWa`aa`a`\_\_aaaa`\_\_aa`[]\_`]WY^Q]U  
@HWI-EAS443:3:57:1587:779#0/1  
GGGCTATTAGTATCAGATGGAGGACCAAATTATACAATA  
+HWI-EAS443:3:57:1587:779#0/1  
XbY¥bbbbbab^baaX¥aaab^ab\_a````baabaaaaa  
@HWI-EAS443:3:57:1644:1862#0/1  
AATTGAAGAGCCATCTGGGCCGTTGCAGTCCAAGTCCAT  
+HWI-EAS443:3:57:1644:1862#0/1  
a``¥``]XY^a`\_\_N¥^aaXZ`[]\_XU\_VRKMNJZYVYXT



@HWI-EAS443:3:57:1672:878#0/1  
TAGGGGGCAATGAAAAGAAGGCCAAACTGGCAAATGTTGT  
+HWI-EAS443:3:57:1672:878#0/1  
aba\_\_ab\_Ybaaaaa\_`^N]`\_\_a```a\_a\_`]aa^\_aZ  
@HWI-EAS443:3:57:1678:527#0/1  
GTGTATCTGTAGTCTTTGATGAACAATTGAAGAGCCATCT  
+HWI-EAS443:3:57:1678:527#0/1  
aaa\_`a¥baaab¥^aaab\_a``\_Q`\_a``aa]`]VV\_aZB  
@HWI-EAS443:3:57:1743:758#0/1  
CATGGACACAGTAAACAGAACACACCAATACTCAGAAAAG  
+HWI-EAS443:3:57:1743:758#0/1  
aab]]a\_a`]XNa`\_]\_`a\_dW\_Saaa`\_a`\_\_\_\_\_``]\_``  
@HWI-EAS443:3:57:1780:477#0/1  
GATACACATATAGGTGCCATAGGGGAGACACACAAATTCA  
+HWI-EAS443:3:57:1780:477#0/1  
abbaababbbbbYa^aaa`aaaa\_aaa`aaaa``^a\_\_a  
@HWI-EAS443:3:57:1781:683#0/1  
AAGAGACAACATGACCAAGAAGATGGTCACGCAAAGAACA  
+HWI-EAS443:3:57:1781:683#0/1  
^`abbbabaababa]aa`aa`a^UaaWW^`^^^\_]Z^P`  
@HWI-EAS443:3:57:17:1349#0/1  
GTTTGGTGCATTCACTATGAGAGCAAATCGTCGGATGAT  
+HWI-EAS443:3:57:17:1349#0/1  
a\_aa]^W`a\_a\_a^a`aa\_a]\_`a\_\_`]^^ZZZ\_^SSX\_  
@HWI-EAS443:3:57:181:1869#0/1  
CGGTCTCCTATATGAACTGCTAGGGAAAAATTTCTCGAAT  
+HWI-EAS443:3:57:181:1869#0/1  
`VSP]\_aa¥Z]¥`Y^\_a`U`[ZW[X¥N]^`U[RZVKX[UY  
@HWI-EAS443:3:57:18:1476#0/1  
GAGGCTATGGCTTTCCTTGAAGAATCCCACCCAGGAATAT  
+HWI-EAS443:3:57:18:1476#0/1  
a\_HQZaaY]Z\_T\_`S`Y¥FYaU]YR]a\_`Y^^XKWWXBBB  
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GAAACATCCTGAGCATGGCACCATAATGTTCTCAAACAA  
+HWI-EAS443:3:57:264:1710#0/1  
`ba[^abaa\_OW¥Vaa\_[]R\_]`^Y[b``^Ya\_a\_`bbaa`  
@HWI-EAS443:3:57:266:633#0/1  
CCTCCATCTGATACTAATAGCCCTACCTTTGATTGGGTTT  
+HWI-EAS443:3:57:266:633#0/1  
aaababaabbaaa`aa`aa```^aaa`\_`aaZ^\_a^[^\_\_  
@HWI-EAS443:3:57:273:1315#0/1  
GTTGATTCCCCTAACTTGCAGGTCCTGTAGAATCTGTCC  
+HWI-EAS443:3:57:273:1315#0/1  
aY`\_TaaaU¥a]a\_`\_`^¥\_aa¥W\_\_^^`Z[^X¥¥YUV¥  
@HWI-EAS443:3:57:274:945#0/1  
TTTCTTCCCTATTGTTCTTTGCGTGACCATCTTCTTGGTC  
+HWI-EAS443:3:57:274:945#0/1  
aa^`aa]^^a`aa\_][]`^Z]`X\_WSRU\_W\_[X\_\_ZZX]  
@HWI-EAS443:3:57:286:1129#0/1  
CCAGTGATTGTGAAAGAAATCTCTGTGTCTTGTGAATTAG

+HWI-EAS443:3:57:286:1129#0/1  
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@HWI-EAS443:3:57:290:256#0/1  
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+HWI-EAS443:3:57:290:256#0/1  
aa\_\_\_`aa¥a¥`¥VXK]U`W¥`SLVTPV^¥¥X`ZQFUBBB  
@HWI-EAS443:3:57:302:20#0/1  
CACCATAGAAGTCTTTAGATCGAATGGCCTAACAGCTAAT  
+HWI-EAS443:3:57:302:20#0/1  
abaaabbb`ab`abbaab`a\_b``aaa`\_`\_]^^^\_W^`  
@HWI-EAS443:3:57:353:794#0/1  
GGTGTGTTCTGTTTACTGTGTCCATGGTGTATCCTGTTCC  
+HWI-EAS443:3:57:353:794#0/1  
ab^b\_a\_aaaaaa]aaa\_a\_^^aaaUa^\_a^\_aZ`\_`  
@HWI-EAS443:3:57:400:232#0/1  
TGCAGATTAGAGGTTTCTGATACTTTGTTGAACTTTAGC  
+HWI-EAS443:3:57:400:232#0/1  
abbabaab`baaa\_`aaa\_aa\_\_b`ab`aa\_\_^Xaa```\_`  
@HWI-EAS443:3:57:422:1196#0/1  
AAAGAACAATAGGGAAGAAAAACAAAGACTGAATAAGAG  
+HWI-EAS443:3:57:422:1196#0/1  
a[X]J¥aa`bLba`^a`\_`\_]a\_\_aWa¥`aa^`aa]\_a^`  
@HWI-EAS443:3:57:430:987#0/1  
CTCCAATCATCCGACGATTTTGCTCTCATAGTGAATGCAC  
+HWI-EAS443:3:57:430:987#0/1  
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+HWI-EAS443:3:57:463:720#0/1  
abaaaa`b^`a`]a`baaa`^aaaa^]a]\_`aaa`a`  
@HWI-EAS443:3:57:469:1733#0/1  
CCACTTTCAAAGAAAAAGGAGAGTAAGAGACAACATGACC  
+HWI-EAS443:3:57:469:1733#0/1  
a\_\_aab`babaabaa¥ab``aa`I¥aaa`[[ba`a```0\_  
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CTTGCAGGTCTGTAGAATCTGTCCACTCCTGCTTGTATT  
+HWI-EAS443:3:57:469:1983#0/1  
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@HWI-EAS443:3:57:496:351#0/1  
GGCTCCAATCATCCGACGATTTTGCTCTCATAGTGAATGC  
+HWI-EAS443:3:57:496:351#0/1  
aaaY^\_aX¥X[][\_`]P`YS¥]^]U[WV][]^]V¥^]]^V  
@HWI-EAS443:3:57:536:1722#0/1  
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+HWI-EAS443:3:57:536:1722#0/1  
aX`\_\_a``aaaaabb`aa\_]\_\_W\_a`]aa\_a^^^\_\_`\_^`  
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AAAAACAAGACTGAATAAGAGAGGCTATCTAATAAGAGC  
+HWI-EAS443:3:57:551:1617#0/1  
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+HWI-EAS443:3:57:859:1058#0/1  
aaaaaaaa^aa^a`a`^`^`aa`\_a`aa^aa`\_`\_  
@HWI-EAS443:3:57:891:1449#0/1  
CGCAACACCTGGGATGCAGATTAGAGGTTTCGTATACTTT  
+HWI-EAS443:3:57:891:1449#0/1  
aa^`baba`aabba`a`ab`a`aa\_aaXaa^`]a``Wa\_\_  
@HWI-EAS443:3:58:1022:837#0/1  
GTTGTCCCCAGTGATTGTGAAAGAAATCTCTGTGTCTTGT  
+HWI-EAS443:3:58:1022:837#0/1  
a\_aaaba`a^^Z\_T\_]ZDV¥`^`^`[¥Z]V\_USSUX^[YZ  
@HWI-EAS443:3:58:1056:1871#0/1  
ACCTGAAGTACTTCAATGAATCAACAAAGAAGAAAATTGA  
+HWI-EAS443:3:58:1056:1871#0/1  
a\_\_¥^aaaWa\_aa]a``\_^`^`][\_]`^`^`][\_\_\_\_^  
@HWI-EAS443:3:58:1067:662#0/1  
GCTGGTATTTGTGTTCGAATCTTCATTCTTTTACTCTCGA  
+HWI-EAS443:3:58:1067:662#0/1  
^[abb[`aba`[`^¥`\_^\_Ua\_^\_aYR\_a``````\_[W\_^  
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TGGTGGGATGGGCTCCAATCATCCGACGATTTTGCTCTCA  
+HWI-EAS443:3:58:1088:860#0/1  
abaUZab\_b``^SXa`a^a\_\_b`^a\_\_a`a\_a^WV`¥`^^  
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+HWI-EAS443:3:58:1098:411#0/1  
a^a`XYX]`Vaa¥a^^[ZYNVOPW]]UYT`¥NLXR\_UXY¥  
@HWI-EAS443:3:58:10:1460#0/1  
GTGGGATGGGCTCCAATCATCCGACGATTTTGCTCTCATA  
+HWI-EAS443:3:58:10:1460#0/1  
¥H]\_ZT]Z^``````a]a`^TTT¥]U[[^\_\_]¥]^^^]Z^  
@HWI-EAS443:3:58:1102:355#0/1  
AAATCGTCGGATGATTGGAGCCCATCCCACCAGTATATTG  
+HWI-EAS443:3:58:1102:355#0/1  
\_abab`X\_b`aa\_Ya^\_b]aa`\_`a````\_]N[a¥`a^\_YW  
@HWI-EAS443:3:58:1149:179#0/1  
GGGCAATGAAAAGAAGGCCAAACTGGCAAATGTTGTGAGA  
+HWI-EAS443:3:58:1149:179#0/1  
aba`aabaaa`aaa\_\_\_\_\_^`^^`\_^`a^\_a]^a^`\_`]  
@HWI-EAS443:3:58:1188:105#0/1  
GTTCTGTTTACTGTGTCCATGGTGTATCCTGTTCTTCTGTTT  
+HWI-EAS443:3:58:1188:105#0/1  
a`a`ab\_aa\_\_\_a^a]ZSZ^a`TaW]]ZR^`]^WV¥Y^W  
@HWI-EAS443:3:58:1197:603#0/1  
ATGGAATCAATGAACAAAGAGGAAATAGAGATAACAACCC  
+HWI-EAS443:3:58:1197:603#0/1  
aaaaa`a\_aaa`\_a\_\_^`^`aa\_\_^a\_aaa`a`\_`^a`^^¥  
@HWI-EAS443:3:58:1213:504#0/1  
ATTCCATGCTTTTGGCTGGACCATGGGCTGGCATTACCAC  
+HWI-EAS443:3:58:1213:504#0/1  
]]a`VZabba```ab`abaZT\_\_b^]¥a[Z\_Y\_]¥T^T

@HWI-EAS443:3:58:1245:615#0/1  
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+HWI-EAS443:3:58:1245:615#0/1  
^[QT\_aa\_a`a\_YX]Z]^V^^\_AY`XR^YW¥YMYMUP¥W  
@HWI-EAS443:3:58:125:834#0/1  
TCTGTTTACTGTGTCCATGGTGTATCCTGTTCCCTGTTCCA  
+HWI-EAS443:3:58:125:834#0/1  
abba\_aaaba`Z^aaaVaa`R¥\_``^`^Zaa\_`a^`^^[  
@HWI-EAS443:3:58:1275:885#0/1  
GGTGTCTAGGGCCCGGATTGATGCCAGGGTTCGACTTCGAG  
+HWI-EAS443:3:58:1275:885#0/1  
ab`aaaaab`\_aaaaaabaa`]a``\_aa¥`\_YP^a\_a^a  
@HWI-EAS443:3:58:1377:1875#0/1  
GTCGTCCACTTCCCTTTTCTGAGTATTGGTGTGTTCTGT  
+HWI-EAS443:3:58:1377:1875#0/1  
\_T`a\_\_`XT\_aa\_\_^Zaa`^^`W`[^`aa\_]a`]WLQX\_^  
@HWI-EAS443:3:58:1388:699#0/1  
GGCTAATTTTAGCATGGAGCTACCCAGCTTTGGAGTGTCT  
+HWI-EAS443:3:58:1388:699#0/1  
aa`aabaa`]^^^a[Z[\_`\_\_\_U[^a¥a^]\_^W\_Wa¥]`  
@HWI-EAS443:3:58:139:557#0/1  
GAGGATAATGAACCAAGTGGTATGCACAAACAGACTGTG  
+HWI-EAS443:3:58:139:557#0/1  
a`baaabaaaa`a`]^aVaa`Va^a``\_^`\_X`^^W^`Z^  
@HWI-EAS443:3:58:1427:679#0/1  
GTTGATCCCACTAACTTGCAGGTCCTGTAGAATCTGTCC  
+HWI-EAS443:3:58:1427:679#0/1  
aZZZZ]¥a\_\_¥J]^Z\_a`Y¥`T[\_]Y\_\_N]^`\_^a`[UU  
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CGACGATTTTGTCTCATAGTGAATGCACCAAACCATGAG  
+HWI-EAS443:3:58:1435:412#0/1  
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+HWI-EAS443:3:58:1458:1630#0/1  
``a`\_Z\_b\_aaZba`a¥`aaZU^W`Yaa`\_U\_\_```YT`\_  
@HWI-EAS443:3:58:14:971#0/1  
GGGGCAATGAAAAGAAGGCCAAACTGGCAAATGTTGTGAG  
+HWI-EAS443:3:58:14:971#0/1  
`aaaa^aaaaa\_]\_]a`aa^a`]^`aa¥]S^\_a^^^^`Z\_  
@HWI-EAS443:3:58:157:1744#0/1  
ATTTTAAGCAGACTTCAGGAATGTGAAGATTCGGTATATT  
+HWI-EAS443:3:58:157:1744#0/1  
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@HWI-EAS443:3:58:1598:1716#0/1  
TCTGTTTACTGTGTCCATGGTGTATCCTGTTCCCTGTTCCA  
+HWI-EAS443:3:58:1598:1716#0/1  
Va``UZ\_a`^Va^]VSS\_aaV]^\_YHQ][¥VFWVX^SSG  
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GATTCTTCAAGGAAAGCCATAGCCTCTAGAACACAGTCTG



@HWI-EAS443:3:58:352:319#0/1  
CTCAAGAATTCCCCTTTGGCTTGTGTTGAGAATAGAACGA  
+HWI-EAS443:3:58:352:319#0/1  
abbbab\_bbbbaababbaaa`aaa\_`[a`Y`\_\_\_a[aa\_`Y  
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GATTCAGTATCGAGACTCCCAAGACCGTACTTAGCATGTT  
+HWI-EAS443:3:58:40:607#0/1  
¥¥¥abaaY[\_\_\_baU\_ba¥`^]NY[^a][aa\_¥XY]Z^HY\_  
@HWI-EAS443:3:58:454:1304#0/1  
ATAATGAACCAAGTGGGTATGCACAAACAGACTGTGTTCT  
+HWI-EAS443:3:58:454:1304#0/1  
aab`][ ]`\_\_a\_aW`\_ZL]`^¥[^\_\_^¥ZZ¥W\_^XWX[VW  
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TGACTCATTAGCTGTTAGGCCATTGATCTAAAGACTTCT  
+HWI-EAS443:3:58:480:564#0/1  
aaaaa`aa`W`a`^\_\_T^]\_X[[V^XVW¥¥XVXRZ^\_U^  
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CAATGAACAAAGAGGAAATAGAGATAACAACCCACTTTCA  
+HWI-EAS443:3:58:493:547#0/1  
a`a`a`a`a`\_aaXa¥Z`a\_a\_a`\_`\_\_\_\_^\_YTaa\_\_[]  
@HWI-EAS443:3:58:506:1543#0/1  
GTCCTCCATCTGATACTAATAGCCCTACCTTTGATTGGGT  
+HWI-EAS443:3:58:506:1543#0/1  
aRaa`baa\_\_aaaa¥T^aaa[W\_^`\_\_\_\_]\_]\_¥\_^^^\_\_W  
@HWI-EAS443:3:58:514:1580#0/1  
CAACGGCCCAGATGGCTCTTCAATTGTTTCATCAAAGACTA  
+HWI-EAS443:3:58:514:1580#0/1  
aabbbabaa\_aaaaaa`a\_R\_aaa]\_a\_¥a`aa[a]`a  
@HWI-EAS443:3:58:619:747#0/1  
CACTAACTTGCAGGTCCTGTAGAATCTGTCCACTCCTGCT  
+HWI-EAS443:3:58:619:747#0/1  
aa\_aa]aaaaabaX\_aaa¥a\_\_\_\_`\_\_a\_V\_\_\_\_\_]\_`\_Z^  
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AGAAATCAACCCGAGTGGTTCAGAAACATCCTGAGCATGG  
+HWI-EAS443:3:58:633:115#0/1  
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+HWI-EAS443:3:58:65:1694#0/1  
^^a^Y`aaa\_[L[ba`bab\_aa¥XP`baaaaaaaaaaa\_aa  
@HWI-EAS443:3:58:727:656#0/1  
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+HWI-EAS443:3:58:727:656#0/1  
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+HWI-EAS443:3:58:738:550#0/1  
^bbbbb\_bbbba`[^Zab\_`^`bbabbaaaaaaba```a\_a  
@HWI-EAS443:3:58:745:1821#0/1  
GTTTGAGAACATTATGGGTGCCATGCTCAGGATGTTTCTG

+HWI-EAS443:3:58:745:1821#0/1  
a`bababaaaabaabaa\_a^^a`\_a^`\_a`\_\_\_\_^`\_`Va\_  
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GTGGACGACAAACACAGAGACTGGTGCACCCCAGCTCAAC  
+HWI-EAS443:3:58:746:1656#0/1  
aLNZ```\_^[ba\_\_\_\_]ZG\_VPT\_WM¥¥^XX`\_U^¥WV^PR  
@HWI-EAS443:3:58:761:1416#0/1  
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+HWI-EAS443:3:58:761:1416#0/1  
aaaaa\_`b`bbabaa`aaaa`aaa\_aaa\_^^`aaa¥^\_`]  
@HWI-EAS443:3:58:782:2010#0/1  
GTAATGCCAGCCCATGGTCCAGCCAAAAGCATGGAATATG  
+HWI-EAS443:3:58:782:2010#0/1  
a`aaa\_``aa`\_`aa\_aQ¥¥\_¥^Y``a`W^^`¥¥¥W^^\_`^\_  
@HWI-EAS443:3:58:809:741#0/1  
CCCCTATGGCACCTATATGTGTATCTGTAGTCTTTGATGA  
+HWI-EAS443:3:58:809:741#0/1  
a¥^\_ab`^aaa\_aaaaab\_]b``a\_\_\_\_\_ab¥`aaab`]a  
@HWI-EAS443:3:58:829:840#0/1  
CCCAGTGATTGTGAAAGAAATCTCTGTGTCTTGTGAATTA  
+HWI-EAS443:3:58:829:840#0/1  
aaa^aabaaaa^aaaaa\_a[a[^`a]a^aa`Y]WTY``W  
@HWI-EAS443:3:58:835:209#0/1  
GGGCTCCAATCATCCGACGATTTTGCTCTCATAGTGAATG  
+HWI-EAS443:3:58:835:209#0/1  
aaa\_`\_a`]]^^a]¥``^a\_\_`^`\_`^W^[\_T]TZ\_]`  
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ACCAAAGATGCAGAGAGAGGCAAGTTAAAAAGAAGGGCTA  
+HWI-EAS443:3:58:836:712#0/1  
``b`a``Uaa\_S\_¥\_Ya^`a`\_Z`¥^^`a`^aaaa[a\_aa  
@HWI-EAS443:3:58:859:1229#0/1  
AAGACTTTGTAATCCCCTGAATCCCCTTTGTGAGTCATAAA  
+HWI-EAS443:3:58:859:1229#0/1  
aa]]aa`aa`a`\_PX`\_a\_\_PY[Z\_\_a\_^\_]¥^^`\_[-¥  
@HWI-EAS443:3:58:880:45#0/1  
CACTAACTTGCAGGTCCTGTAGAATCTGTCCACTCCTGCT  
+HWI-EAS443:3:58:880:45#0/1  
aaabaaaabbaabb]X\_`b`\_a\_aa`aa]ZTVL[NV[\_Za  
@HWI-EAS443:3:58:900:1147#0/1  
CAGATCTTCATGATCTCAGAGAACTTTCTTTCTTGATCC  
+HWI-EAS443:3:58:900:1147#0/1  
a\_b`aabab]aba`V¥\_a¥U[\_```Z`baa`a]\_a]a^`X  
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CCATGGGCTGGCATTACCACAGCATTGTTTACAGAATCAA  
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aaab[aaa`bbYaab\_W\_aa`a`baaaaaaaaaaaa\_[aa  
@HWI-EAS443:3:58:946:513#0/1  
GCCAGGGTGCAGCTTCGAGTCTGGACGGATCAAGAAAGAAG  
+HWI-EAS443:3:58:946:513#0/1  
aa\_STT]LZ]ZW]]^^V\_G]V\_aVV`¥UZVZW[¥\_a]¥T[



@HWI-EAS443:3:58:962:827#0/1  
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+HWI-EAS443:3:58:962:827#0/1  
aa`^`aa`\_a`SU¥NZ[S\_]X[RTX]\_¥\_]RW]W¥Z^S  
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a^]^a¥]^`\_Z\_[HYaaa¥^a[^`\_ZZJ][SNVWXMKWXR  
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^`\_aa`bbb^Y^aaa¥a`abbbbaaa\_\_`abX]^¥UU¥Z[  
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a`\_a[Z]¥\_a^Z`WY]U^¥^^^\_]XTX^^])^STU[VZX  
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+HWI-EAS443:3:59:749:1623#0/1  
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+HWI-EAS443:3:5:1184:102#0/1  
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+HWI-EAS443:3:5:1622:191#0/1  
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+HWI-EAS443:3:5:1624:355#0/1  
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+HWI-EAS443:3:5:393:1474#0/1  
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+HWI-EAS443:3:5:500:23#0/1  
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+HWI-EAS443:3:5:504:1235#0/1  
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+HWI-EAS443:3:5:511:1485#0/1  
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+HWI-EAS443:3:5:518:218#0/1  
aa`[aaaab`^`a\_aV\_aaa`\_`Y^\_^\_aZa]]]Z]\_Z^  
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T[YW\_Y\_[X\_]¥^`GW\_[aa`^`bb^babba`ab][aZZ\_  
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+HWI-EAS443:3:5:886:198#0/1  
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a^aaZ]]```\_U]`aa^\_[TYXS]^[[^][RUTZ[ZRQY[  
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aa`^`a`abaaaaa`a`^`\_`aa^aaa\_``]]`\_a^^^`  
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+HWI-EAS443:3:60:1194:1539#0/1  
aaaYa]aa`\_`\_a\_a\_a\_^a¥X\_``\_``\_``]`\_X\_]X^\_^  
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\_```]¥¥¥U\_bbaSaX¥Y\_b^b[HM`a^`\_U[aaaa^aa^  
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aa`¥``ab`^^`\_Ya[\_ZT^]\_\_\_\_]^^`¥V^\_YVW[¥Y[  
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+HWI-EAS443:3:60:1318:1699#0/1  
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+HWI-EAS443:3:60:1335:1393#0/1  
\_`]aab`aaa\_b``aaaS\_a`aa\_a¥[\_`¥\_¥\_`]\_\_\_\_]\_`  
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+HWI-EAS443:3:60:1461:1949#0/1
a^b^^aL¥abb`aaaaa]```_aSaa`bUb_`_`a`aY_G
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+HWI-EAS443:3:60:1657:83#0/1
aa`aba_a_`X_a_`^^Z]]`^^^Z_Z_`S]Z^Z_^^^
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+HWI-EAS443:3:60:166:731#0/1
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+HWI-EAS443:3:60:1703:1206#0/1
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a`aa]aaaaa`aa`aaa`aaaaa^`__a`__`__^`_^^^
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[]a¥¥aYT][YS^Y_]_]`^^[U`ZT¥X]]STUWWHW^Z
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aa`_`bbaaaaaaaaaa^^^aa`_]Ya___`Ya_`^`^X
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`_aTa¥` `a^` Sa` _a`¥a_a`__^[L]^¥` `a]]][U]_]
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+HWI-EAS443:3:60:444:540#0/1
aa`aaaaabaaaa`aabaaa`aa`aaaa````_`^````^_`
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¥a¥Z_¥aaa`ab_^bbbq]bZQ`¥_X^^a[^a_Q¥aYaaa
@HWI-EAS443:3:60:682:303#0/1
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+HWI-EAS443:3:60:682:303#0/1
abaaaa```a^a_aa_aaaa`aaaa_a``_a_`__^`
@HWI-EAS443:3:60:689:741#0/1
ATGAGAGCAAAATCGTCGGATGATTGGAGCCCATCCCACC
+HWI-EAS443:3:60:689:741#0/1
abbaaabab`X_aaa__ab`_U```¥^__^_^_`[a^^][
@HWI-EAS443:3:60:731:1655#0/1
GTGGGATCAAACCAATCAAAGGTAGGGCTATTAGTATCA
+HWI-EAS443:3:60:731:1655#0/1
`Y]RVZWXR^aS[NZWVQ`aYK]`¥OLUaaXVTNL_Y]_
@HWI-EAS443:3:60:754:154#0/1
AAAATTTCTCGAATAGATTGCAGCACTTCTGGTACATCTG
+HWI-EAS443:3:60:754:154#0/1
[`¥R^_aa`baYaa]^a][`¥X¥a``_`[ZXXP_^YV^Y^`
@HWI-EAS443:3:60:764:1388#0/1
GAGTAAATGAATCAGCTGACATGAGTATTGGAGTAACAGT
+HWI-EAS443:3:60:764:1388#0/1
a_a^a¥`aaaaa__]_aa]]_`__[_`^^`_]^_U^[X
@HWI-EAS443:3:60:778:165#0/1
AGCTGATTCATTTACTCCAGACACTCCAAAGCTGGGTAGC
+HWI-EAS443:3:60:778:165#0/1
[a^^YX]a_[_baa[[Y`^WX`]]`WTS`aaaWXY¥aGTU¥`
@HWI-EAS443:3:60:77:980#0/1
GTGGGATGGGCTCCAATCATCCGACGATTTTGCTCTCATA
+HWI-EAS443:3:60:77:980#0/1
_WZ`ZX¥XU`_Q__Y_]_] [_^ZTZ]XYX[VZQNWTRXX[

@HWI-EAS443:3:60:781:1307#0/1
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+HWI-EAS443:3:60:781:1307#0/1
aWQ`b_b_a^Q`___aR]bbaSb_`aa_¥`a¥a_Y¥_^^`
@HWI-EAS443:3:60:785:947#0/1
CAACTACACATTCTGGATTCCCAAGAGGAATCGTTCTAT
+HWI-EAS443:3:60:785:947#0/1
abbabaab`baaa_aaaaaa`aa`aaaaa``_`a____`a
@HWI-EAS443:3:60:805:1537#0/1
TGGGATTCTTCAAGGAAAGCCATAGCCTCTAGAACACAGT
+HWI-EAS443:3:60:805:1537#0/1
`a]¥[^b_]V`ZZZ`[Q¥_¥T`a]``^U_^a^_]`¥__S
@HWI-EAS443:3:60:809:648#0/1
TGTGTTCTGTTTACTGTGTCCATGGTGTATCCTGTTCTG
+HWI-EAS443:3:60:809:648#0/1
ababababbabba`aaab`aaaaaa^^`a]`^a¥^a]`^a_
@HWI-EAS443:3:60:872:333#0/1
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+HWI-EAS443:3:60:872:333#0/1
aaabb]aa¥ab_a__`¥_a_`_a¥_¥____[]_X^_T_^_
@HWI-EAS443:3:60:880:1790#0/1
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+HWI-EAS443:3:60:880:1790#0/1
_P[aa[MV`_Nb_H^T_UYU¥XQXQ¥URY`W_HTVN^Z
@HWI-EAS443:3:60:907:433#0/1
GGACGGATCAAGAAAGAAGAGTTCTCTGAGATCATGAAGA
+HWI-EAS443:3:60:907:433#0/1
aa[`aa_`a`aa__```a`_`^`^a_``_`]^^^]``____
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+HWI-EAS443:3:60:913:495#0/1
`abbab`b_b_¥_¥_a_¥_V]aaX¥ZZ_] []¥V[X_P]`_
@HWI-EAS443:3:60:927:1864#0/1
GCATTCACTATGAGAGCAAATCGTCCGATGATTGGAGCC
+HWI-EAS443:3:60:927:1864#0/1
ab_PPa_`a¥[]_W_¥YX^a]LRQNQ_RW¥UZ_WWUQT
@HWI-EAS443:3:60:988:1587#0/1
CCAGTGATTGTGAAAGAAATCTCTGTGTCTTGTGAATTAG
+HWI-EAS443:3:60:988:1587#0/1
`abbUbbaaaWa```aaabaab`a¥__`aba`^a`__]_
@HWI-EAS443:3:61:101:1856#0/1
AGTAGGGGGCAATGAAAAGAAGGCCAAACTGGCAAATGTT
+HWI-EAS443:3:61:101:1856#0/1
``Y¥_¥`X¥a``aa_^^`]ab`]bb``M]aUT``¥¥Y_MZ
@HWI-EAS443:3:61:1034:1907#0/1
AGGAAATAGAGATAACAACCCACTTTCAAAGAAAAAGGAG
+HWI-EAS443:3:61:1034:1907#0/1
abb]bbbbbbababbbb`babababbbbbaaa__```a_^_
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+HWI-EAS443:3:61:1038:756#0/1
abb`_^aaaaab`^aabbab^¥aba^`__a^U_¥XYP[FY
@HWI-EAS443:3:61:1060:278#0/1
CCCAGTGATTGTGAAAGAAATCTCTGTGTCTTGTGAATTA
+HWI-EAS443:3:61:1060:278#0/1
abbbbabbbbaababbbb`bbbaabaa[aaW^a]V_`W
@HWI-EAS443:3:61:1100:554#0/1
ATCTAATAAGAGCACTGACATTAATACGATGACCAAAGA
+HWI-EAS443:3:61:1100:554#0/1
ababaabbababaaaabaabba^^`abaaaa_^]`^`__
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+HWI-EAS443:3:61:115:304#0/1
ab`aaaabaab`aa`a_aaaa^a``_a_`_]_X¥^`^`Z_
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+HWI-EAS443:3:61:1190:1251#0/1
aabb`¥abab]aaaabaabaaa]aaaa`a^aY__]W¥[Y
@HWI-EAS443:3:61:1231:2020#0/1
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+HWI-EAS443:3:61:1231:2020#0/1
aaa__a`baa`bSababaaaabab`aa^Wa``__^_W]W
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+HWI-EAS443:3:61:1235:1685#0/1
a`abaabbbabab`b`aaa`abb^j`aaa_a_^[_Z][[
@HWI-EAS443:3:61:1359:1825#0/1
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+HWI-EAS443:3:61:1359:1825#0/1
ababaabbbbbbb`_abbbbbbbbabaaabGa`a`a_]`
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ATCCCCTAACTTGCAGGTCCTGTAGAATCTGTCCACTC
+HWI-EAS443:3:61:1361:852#0/1
aaa^`^[aaaa_`aa`a`]Z_aaa__a^_`_^ZZPPRTTN
@HWI-EAS443:3:61:1370:960#0/1
GCCCTACCTTTGATTGGGTTTGATCCCACAGCTTCTTTAA
+HWI-EAS443:3:61:1370:960#0/1
_`^aYQ[`__aWZ_`¥a][_`]¥`_]`^¥Y¥XWTTUXNR
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+HWI-EAS443:3:61:1381:159#0/1
a[_W^^¥Y`a^X_ZQX]V_W^VZU^_W_W^WSLU^YWUQR
@HWI-EAS443:3:61:138:801#0/1
TGGACCATGGGCTGGCATTACCACAGCATTGTTTACAGAA
+HWI-EAS443:3:61:138:801#0/1
ababaabaa`aaaba`[_`abaaaaa`¥a`a_a_`^`^`_`^`
@HWI-EAS443:3:61:1418:730#0/1
TGAAGATTCCGTATATTGTATAAGTTTGGTCCCTCCATCTG
+HWI-EAS443:3:61:1418:730#0/1
a`aaaaaaaab_aaaaab_`a¥^a`aaa`__`_`_`_]`_`^`

@HWI-EAS443:3:61:1443:1112#0/1
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+HWI-EAS443:3:61:1443:1112#0/1
ab`bbbbbbbabababbab`bba`[_[`aa^`__ZXUR
@HWI-EAS443:3:61:1535:1367#0/1
ATTTGAGTTAAAGAAGCTGTGGGATCAAACCAATCAAAG
+HWI-EAS443:3:61:1535:1367#0/1
`bbbbbbbab`aaWabbaabb]aa¥`aa`V`¥[^][Y^
@HWI-EAS443:3:61:1543:1885#0/1
CAGATCTTCATGATCTCAGAGAACTCTTCTTTCTTGATCC
+HWI-EAS443:3:61:1543:1885#0/1
^`_`_R`b_b]`Ua¥aa`aa`a``aaa[¥]_P_G`a_VW
@HWI-EAS443:3:61:1548:866#0/1
AATTGAAGAGCCATCTGGGCCGTTGCAGGTCCAAGGTCAT
+HWI-EAS443:3:61:1548:866#0/1
aabbbbbb`aab`aaaa_baabaa]`_[Ua_TUX]
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CTATGGCACCTATATGTGTATCTGTAGTCTTTGATGAACA
+HWI-EAS443:3:61:1574:1552#0/1
aX¥R_XR[_baM^Y`aa][bb`¥¥ZLWbabb][¥a]WSGZ
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+HWI-EAS443:3:61:1577:1694#0/1
aaa`bSbbaX[a^aaaab`abab___b_aa]aVYRXSQZ¥
@HWI-EAS443:3:61:1607:503#0/1
GTCCTCCATCTGATACTAATAGCCCTACCTTTGATTGGGT
+HWI-EAS443:3:61:1607:503#0/1
a`__a`_`_`a_____]a_a`a_a`a`^¥_`_`_TY_ZMRYZ
@HWI-EAS443:3:61:1639:1553#0/1
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+HWI-EAS443:3:61:1639:1553#0/1
aZJ`¥P`^aYa`MMR¥R``[`]a_a`_]`_[Z[UVRXXXV
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AAAAATTCCAGCGCAAATGCCATAAGCACCACATTCCCT
+HWI-EAS443:3:61:1643:653#0/1
a^^[]aaa__b]P][Z^`a^]b````adW_WFTU]__NTVW
@HWI-EAS443:3:61:1688:1762#0/1
AAGACTTCTATGGTGTGGCCAATGCAGTTGCTGCCGGTT
+HWI-EAS443:3:61:1688:1762#0/1
a^``¥ab_baa_^GQW`ba[abbabaaa]`_¥Q[LN^^GP
@HWI-EAS443:3:61:1695:1575#0/1
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+HWI-EAS443:3:61:1695:1575#0/1
aaXa]__a_aa_^a``aaaa`aa]a`_]`^¥[]__V]XX
@HWI-EAS443:3:61:1715:642#0/1
TGAAGAGCCATCTGGGCCGTTGCAGGTCCAAGGTCATTGT
+HWI-EAS443:3:61:1715:642#0/1
`a`a``aaaaaaa`_aab]__b_aaZ_^___ZOTZ[YYU
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+HWI-EAS443:3:61:1776:478#0/1
aaaaaa]_[XZ_[Y[___`a`¥_YUV_¥¥¥X¥Y^]]XST
@HWI-EAS443:3:61:231:411#0/1
AATCTGTCCACTCCTGCTTGTATTCCCTCATGGTTTGGTG
+HWI-EAS443:3:61:231:411#0/1
``aabb`bab`]____]``__WY]_aaaZ¥¥]`^[¥WX[TZ
@HWI-EAS443:3:61:259:1511#0/1
GGGATGGGCTCCAATCATCCGACGATTTTGCTCTCATAGT
+HWI-EAS443:3:61:259:1511#0/1
X`baY`bbaabbaaaa^^baXI^`Z]aa_¥]____^]W_SR
@HWI-EAS443:3:61:285:1517#0/1
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+HWI-EAS443:3:61:285:1517#0/1
abb]abaaa_aba_a`_aba`^__a^^]_]_¥__VYNU¥]^
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+HWI-EAS443:3:61:29:1321#0/1
[]_SS[¥aaa^^_¥`UVR`¥_^W]X_`b_S_a__`[WXGT
@HWI-EAS443:3:61:300:1661#0/1
GTAGAATCTGTCCACTCCTGCTTGTATTCCCTCATGGTTT
+HWI-EAS443:3:61:300:1661#0/1
aa`TYRX]`aX_`^`Y``ZY^W¥X]_^ZUZ^^]QUZYRYU
@HWI-EAS443:3:61:301:1279#0/1
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+HWI-EAS443:3:61:301:1279#0/1
aaaaaabaaaa`¥a`aaa`a_aa_a^`_`_`_Y]_X]^YX
@HWI-EAS443:3:61:34:699#0/1
AAAAATTCCAGCGAAAATGCCATAAGCACCACATTCCCT
+HWI-EAS443:3:61:34:699#0/1
abaa`a```a_____^Y_^__¥Z[HUY_^^]]Y]]YYXX]
@HWI-EAS443:3:61:357:499#0/1
TACAAGCAGGAGTGGACAGATTCTACAGGACCTGCAAGTT
+HWI-EAS443:3:61:357:499#0/1
aaa`])`b[a^[a]aa`^L^VW]^WX]__^Y]_QVSRYYNU
@HWI-EAS443:3:61:39:1195#0/1
CAATGAAAAGAAGGCCAAACTGGCAAATGTTGTGAGAAAAG
+HWI-EAS443:3:61:39:1195#0/1
a_a`b_RVb_b`aabb`Xabbba`Y_`aa]aaaba_`^_
@HWI-EAS443:3:61:420:1573#0/1
TGCCGTTGCAACTACACATTCTGGATTCCCAAGAGGAAT
+HWI-EAS443:3:61:420:1573#0/1
aaaa_^a____a`_a[Y]aa[a_U[___V]_¥V`YUTTVXYY
@HWI-EAS443:3:61:440:1080#0/1
CTGTGGTAATGCCAGCCCATGGTCCAGCCAAAAGCATGGA
+HWI-EAS443:3:61:440:1080#0/1
`ab^`bYba^U^[Yaaaa``_]a`X]``[UP[T^UUWWW
@HWI-EAS443:3:61:464:172#0/1
TGCTGGTATTTGTGTTTGAATCTTCATTCTTTTACTCTCG
+HWI-EAS443:3:61:464:172#0/1
abaabb[Yaaab`a`aaaa____```_a__`a`__^_]_Z_

@HWI-EAS443:3:61:494:1506#0/1
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+HWI-EAS443:3:61:494:1506#0/1
a_aJF0b___Y]YZ^`_`Y¥Z_[[PZ]^`¥^^]SNT¥U¥
@HWI-EAS443:3:61:497:506#0/1
TGGACGACAAACACAGAGACTGGTGCACCCCAGCTCAACC
+HWI-EAS443:3:61:497:506#0/1
aabaabbab^aaabaaa_Z`aaaV`a^__a_a_[^``_¥U
@HWI-EAS443:3:61:508:114#0/1
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+HWI-EAS443:3:61:508:114#0/1
abaaa__ab]^``a_`_`[N¥_]_^`^^[^_]_`Y^X_
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+HWI-EAS443:3:61:513:1185#0/1
R_Y]WW___aNZW__Y¥WN]^`¥^_`U¥_a^^XHJFOYSP
@HWI-EAS443:3:61:525:509#0/1
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+HWI-EAS443:3:61:525:509#0/1
abbbbaabbab`aaabbbbaS¥`abaaaaa^Za```_
@HWI-EAS443:3:61:549:1448#0/1
GGTTGTTATCTCTATTTCTCTTTGTTTCATTGATTCCATT
+HWI-EAS443:3:61:549:1448#0/1
a¥aaa_aababa`baba`aa`aa`a`a][_`^`_`[^`_
@HWI-EAS443:3:61:554:1255#0/1
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+HWI-EAS443:3:61:554:1255#0/1
ab`a`^bbb``aa`aa`__`]G¥a^¥^]a_U^XZ_]`^ZZ
@HWI-EAS443:3:61:563:1757#0/1
TGGCACCTATATGTGTATCTGTAGTCTTTGATGAACAATT
+HWI-EAS443:3:61:563:1757#0/1
`^`a`aaa`^^`]¥¥^`]a`PR_Sa_`^¥^^U^[Z_[ZY
@HWI-EAS443:3:61:597:1595#0/1
GAACAATTGAAGAGCCATCTGGGCCGTTGCAGGTCCAAGG
+HWI-EAS443:3:61:597:1595#0/1
¥KMaSH[^La]JJXWZ]P]¥]^`__ZLXW¥UZRFVPPPTN
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GGGATTCAGGGATTACAAAGTCTTCCCCGATAATCATCA
+HWI-EAS443:3:61:602:348#0/1
Z^^_¥`^`^`__`^`aaba¥UY^Xb``bb_Y¥[HZW]a]ZOU
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AGACAATATACTGGTGGGATGGGCTCCAATCATCCGACGA
+HWI-EAS443:3:61:689:1473#0/1
aababaaaaaaa`aUa_a`_a``a[aaa__]¥Z_^`^[UV
@HWI-EAS443:3:61:713:900#0/1
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+HWI-EAS443:3:61:713:900#0/1
V_bZZZ`^[^baaaaZ¥Z`^`Q_`UZ¥]`^a^^]_Z_[Z
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+HWI-EAS443:3:61:715:1554#0/1
aa^^`aaaa`a`aaaaaaaa`aaaaa`_Y`^]__W]^Y
@HWI-EAS443:3:61:736:578#0/1
GGTGGGATGGGCTCCAATCATCCGACGATTTTGCTCTCAT
+HWI-EAS443:3:61:736:578#0/1
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@HWI-EAS443:3:61:797:1179#0/1
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+HWI-EAS443:3:61:797:1179#0/1
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+HWI-EAS443:3:61:817:499#0/1
a`^a[R^]NZ¥^_WXY¥RY¥XK¥I][ZYPYJRYU¥XXXX
@HWI-EAS443:3:61:83:1833#0/1
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+HWI-EAS443:3:61:83:1833#0/1
a`aa¥ab_a_aaa_a_¥]a`^X]^a`^]Z_^_ZXUWZVZ
@HWI-EAS443:3:61:83:759#0/1
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+HWI-EAS443:3:61:83:759#0/1
ab`^bV`b¥abZa]_¥VS[`aaa¥abVLY_T¥J][LTLJF
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TTCCATTGTTTCAAGGCATGAATTCTCAAATATTCCTGGG
+HWI-EAS443:3:61:848:71#0/1
]¥Ya]¥ZR_aVQVZ`Y_`VN_a``[¥ZUaY^_[ZUWRL
@HWI-EAS443:3:61:857:769#0/1
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+HWI-EAS443:3:61:857:769#0/1
a`b`^`a¥_Q]`_a]a`aa]__a__`_X__^^_[ZVP
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CTGTGGTAATGCCAGCCCATGGTCCAGCCAAAAGCATGGA
+HWI-EAS443:3:61:876:1851#0/1
aababaabbbbabab^ababbb]bb`baaa`a]_[a¥TQ¥
@HWI-EAS443:3:61:912:27#0/1
GAGGCCATGGTGTCTAGGGCCCGATTGATGCCAGGGTCG
+HWI-EAS443:3:61:912:27#0/1
`_`]¥]^`aZ^YXSP`^[^]Ra]NU¥WKPBBBBBBBBBB
@HWI-EAS443:3:62:1004:1449#0/1
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+HWI-EAS443:3:62:1004:1449#0/1
aabbbbaa`^`_baaa`Z¥a`^_aaa]`aa`aa¥`_]]a
@HWI-EAS443:3:62:1008:670#0/1
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+HWI-EAS443:3:62:1008:670#0/1
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@HWI-EAS443:3:62:1039:371#0/1
TATGGCTTTCCTTGAAGAATCCCACCCAGGAATATTTGAG
+HWI-EAS443:3:62:1039:371#0/1
```baaZZ\_S[\_aYV\_Z`a\_\_\_a\_Y\_]\_[\_aS\_]\_[ZYU]W

@HWI-EAS443:3:62:1047:767#0/1  
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+HWI-EAS443:3:62:1047:767#0/1  
aaa^aabaa]\_X\_aa`aa`a`aa^a[a\_\_XXXL]Y^Y\_X  
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+HWI-EAS443:3:62:1050:418#0/1  
aaaaaaaaa\_a\_¥`^`\_`a\_\_\_\_^ZSa\_^\_Z^^\_\_  
@HWI-EAS443:3:62:1067:1361#0/1  
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+HWI-EAS443:3:62:1067:1361#0/1  
Y`¥abbbabbbb\_bbbbbababaabb^bbaaaa]aaX`ba  
@HWI-EAS443:3:62:1078:840#0/1  
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+HWI-EAS443:3:62:1115:783#0/1  
aa`a^a\_^\_a`\_\_\_\_^V¥Za`\_\_^^^a\_^Z^^Z¥^]]  
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CCTAGCTAAAGTTTCAACAAAGTATACGAAACCTCTAATC  
+HWI-EAS443:3:62:113:530#0/1  
aaaaaaaa`T^aZaa¥ab`\_¥\_aW¥`a\_XWXZa`]\_¥VOXa  
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+HWI-EAS443:3:62:1151:51#0/1  
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@HWI-EAS443:3:62:1164:1805#0/1  
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+HWI-EAS443:3:62:1164:1805#0/1  
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+HWI-EAS443:3:62:1198:718#0/1  
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+HWI-EAS443:3:62:1255:1092#0/1  
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+HWI-EAS443:3:62:1260:940#0/1  
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+HWI-EAS443:3:62:1275:613#0/1  
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+HWI-EAS443:3:62:1376:2039#0/1  
aQYM^\_\_Y\_aX`Q`Z`[\_[WaGX\_UZXZ`^`^XW^NGX[¥  
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a`aabbbaab]abaaa`aab`a\_aaVa\_]aaaaa^b\_`a  
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+HWI-EAS443:3:62:1522:1472#0/1  
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+HWI-EAS443:3:62:1618:771#0/1  
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GTCCTCCATCTGATACTAATAGCCCTACCTTTGATTGGGT  
+HWI-EAS443:3:62:1660:669#0/1  
aU]^\_\_\_\_\_Z`Y\_]\_]][\_\_`WSX^YXZ\_\_]\_Y^X¥\_\_W  
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+HWI-EAS443:3:62:166:1289#0/1  
a``]`\_¥^aTbaaa``ba`[aaaJa``¥aa\_\_¥¥\_Q\_`\_`  
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\_UT\_]`^aY\_WWUZSXV[]T^`]]¥[SQY`\_NYLVV[WZU  
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+HWI-EAS443:3:62:1754:376#0/1  
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aa¥a]^Xa`aa\_`Yaaa\_¥UY`a`a¥`]ZYYVUZ\_WW¥  
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+HWI-EAS443:3:62:191:236#0/1  
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+HWI-EAS443:3:62:191:641#0/1  
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+HWI-EAS443:3:62:271:360#0/1  
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+HWI-EAS443:3:62:277:400#0/1  
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+HWI-EAS443:3:62:289:531#0/1  
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+HWI-EAS443:3:62:28:727#0/1  
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+HWI-EAS443:3:62:330:1889#0/1  
a\_aaaaaabaaa`aaa\_`Y`^^`\_a^`a`]]^PV^]XL  
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+HWI-EAS443:3:62:331:1649#0/1  
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+HWI-EAS443:3:62:395:532#0/1  
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ACAGATCTTCATGATCTCAGAGAACTCTTCTTTCTTGATC  
+HWI-EAS443:3:62:408:499#0/1  
a`Y\_Z```^`a\_¥¥```^M^]¥S[^`Z^ZZ\_\_`]U[Z^  
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+HWI-EAS443:3:62:433:1825#0/1  
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+HWI-EAS443:3:62:441:489#0/1  
`a\_a`b`a\_aa`aaaa]aaa\_`aaaaa`\_\_`\_\_¥]^WW  
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+HWI-EAS443:3:62:504:1575#0/1  
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+HWI-EAS443:3:62:544:32#0/1  
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+HWI-EAS443:3:62:574:224#0/1  
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a^^SR¥a]^¥^NWaa[YY\_`^`WZ]`\_W]\_]`\_]\_\_\_\_]^]TX  
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+HWI-EAS443:3:62:729:1984#0/1  
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+HWI-EAS443:3:62:73:2025#0/1  
\_Qyb`aUR]^\_T^a\_\_aY^`J`\_`aU^I\_I]aa\_]```Ta  
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+HWI-EAS443:3:62:740:661#0/1  
aba^\_aaZ^`a¥YUa`¥a[\_[\_[^`^SZ]RU\_X¥S[Z[Z  
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+HWI-EAS443:3:62:842:1593#0/1  
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+HWI-EAS443:3:62:856:978#0/1  
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+HWI-EAS443:3:62:943:449#0/1  
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+HWI-EAS443:3:63:102:1926#0/1  
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a\_baaa]\_aaaa\_\_Z`\_^\_]\_\_^\_YX¥]]^a^`]W^\_Y`  
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S\_bbbba`\_```a]aa^\_aVa^\_a^\_^]`aa`X`\_XW^^  
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+HWI-EAS443:3:63:1190:884#0/1  
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+HWI-EAS443:3:63:1264:957#0/1  
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+HWI-EAS443:3:63:1409:871#0/1  
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+HWI-EAS443:3:63:1535:435#0/1  
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aa``aaaa````aaaa`aa`baa\_a^`a\_a`^a```ab

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aaaaaa\_a\_\_`\_]^X^a\_]a\_\_`X\_^¥`\_]XX`\_Y¥¥]^\_  
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^Ya¥\_\_Za\_]R\_]\_\_aa]Y¥[\_ZZZ]WO]Z`aZQ\_a^`aa  
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a`aab[aaaaa\_aaa\_a\_a`\_aa^¥`\_]`^¥¥``\_\_X¥`^  
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+HWI-EAS443:3:63:187:1081#0/1  
abaS¥¥Z¥W^`^JYZ\_aX```^`[\_[^`^^[[a¥LX¥^Z]  
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+HWI-EAS443:3:63:232:1878#0/1  
a\_Sa¥X`\_\_^\_PVZU\_\_`S]¥R[X0^aX`^URQ^VW\_[¥Y  
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aaaaaaaa\_[aaa\_\_aa^V\_^\_[Y]]\_\_^^^ [P^Z^WZ^WY  
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^R¥\_[\_`aZY^W`\_]a``\_[\_XX]¥ZZV^a`Za`\_]aYU

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aaY]]a[[¥[T`^^^aaa`\_]a[\_¥X[T¥^]]\_`\_[^\_] ]  
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aa\_]`^^`\_`\_^`^`^\_a\_\_\_^`^`\_a^]]`^X^^`\_`^ZZ]]  
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R^`¥[^K^U]baaY¥\_WR[UR`ZTS]`^a[\_`^UY\_H  
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aa`Y]VUXQaZJV¥[`MZ¥UW¥X]¥ZWL YPTUZ]^T^^VT  
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+HWI-EAS443:3:63:565:244#0/1  
^``¥¥]`a`RXXU[¥P¥\_a0]¥J¥`\_`[^a\_a]R[^X`\_`  
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\_`^`Z`aa`a\_a`a\_\_a^^^a\_\_a\_\_`^^`\_`^a^`[U  
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+HWI-EAS443:3:63:645:1343#0/1  
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+HWI-EAS443:3:63:645:1394#0/1  
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a`aaaaaaaaaaaa]aaaaa`a``]``¥`a\_a\_\_a`\_Y  
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+HWI-EAS443:3:63:702:198#0/1  
aaaa`a]```\_`aa`\_]`^aaZa`a]`]]^\_]\_\_U^]  
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+HWI-EAS443:3:63:705:183#0/1  
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a\_aaa`\_aaa`aa`a\_]Ya\_`\_aa`^`a`````\_``^`^`  
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]\_[¥^[\_PV¥aaWXIZ^V\_a\_\_W[R\_¥UZYRX\_\_bb\_]XZ  
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a^¥aa`\_Y\_^aYaX[^`¥a^ab[X]]a\_`^Z^`\_WY`aR  
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+HWI-EAS443:3:63:821:195#0/1  
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+HWI-EAS443:3:63:936:385#0/1  
\_PW¥aY\_\_]\_a]ST[\_a¥`Xaa^]YV\_\_[^Z`a]\_[VYU\_  
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+HWI-EAS443:3:63:975:797#0/1  
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a\_OW]aRa^\_`b`b`b[T^b`[^a^P[V^\_`¥¥^¥]^`a  
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NY[Wa`b\_b\_a`¥T`\_a\_^\_ab`PRP\_[YY``a¥Z``^a[  
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+HWI-EAS443:3:64:39:487#0/1  
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aa^^aa`V¥\_¥^^\_\_`\_`Za^\_\_\_\_^`\_`¥V^\_`\_¥¥^V  
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+HWI-EAS443:3:64:638:1843#0/1  
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+HWI-EAS443:3:64:646:1344#0/1  
^`^aVg¥\_a¥XY]a\_Z¥Z`^[[`\_] ^OVDT[`¥S^UU`]  
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+HWI-EAS443:3:64:770:52#0/1  
a``a\_a\_``^aa\_\_`\_`\_\_`\_`a^\_\_\_a^`\_\_^`^^^]]  
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^a\_aZ`a¥YI^`a`a``\_^[^`\_`a\_^^`]\_\_[R[`]\_]`^  
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aa`\_bba\_aaba`a\_`baaX\_a\_a\_¥^a^a`\_a`a\_`\_\_^  
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]`]`^`a`\_aa`U¥¥]^`^Z^a`XSQU`\_`¥VP¥`YSJ\_`  
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+HWI-EAS443:3:65:1072:258#0/1  
`aa`¥`\_\_`\_Ya`^^`\_\_\_\_\_^]`^a\_\_\_\_^^Z^^^\_^]XX]  
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@HWI-EAS443:3:65:1170:385#0/1  
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+HWI-EAS443:3:65:1203:910#0/1  
^L^a`]a`Z`]XZZ¥`]\_^Z]XM`\_`¥Wa^]¥¥V\_[S¥  
@HWI-EAS443:3:65:1204:475#0/1  
AAAAATTCCAGCGCAAATGCCATAAGCACCATTTCCCT  
+HWI-EAS443:3:65:1204:475#0/1  
aa`baaaaa`ab`aa\_aaaa`aa`a\_aa\_aaaaa`^^`



@HWI-EAS443:3:65:1220:966#0/1  
ATCAAGAAAGAAGAGTTCTCTGAGATCATGAAGATCTGTT  
+HWI-EAS443:3:65:1220:966#0/1  
aa`aaaaab^ab^\_\_^aaaa`a`a`^\_aaaa````\_a`^^  
@HWI-EAS443:3:65:1237:1032#0/1  
GACTAATTCACAAGACACAGAGATTTCTTTTACAATCACT  
+HWI-EAS443:3:65:1237:1032#0/1  
aaabba^ba`aaa`\_`\_`aaaa`\_`aaaa``\_a`a`\_``\_`  
@HWI-EAS443:3:65:123:610#0/1  
CATCTGGGCCGTTGCAGGTCCAAGTTCATTGTTTATCATG  
+HWI-EAS443:3:65:123:610#0/1  
Za^ba\_bbbbbaa`Z^`bab`U¥\_R¥ZTa[^`]^]\_a`aa  
@HWI-EAS443:3:65:1261:1959#0/1  
TGAGAATAGAACGATTCCCTCTTGGGAATCCAGGAATGTGT  
+HWI-EAS443:3:65:1261:1959#0/1  
aa]aaaa\_H¥b^Y`TUb^aaabU¥\_a`^¥a`W[M^UP[W  
@HWI-EAS443:3:65:1298:639#0/1  
ACTAACTTGCAGGTCCTGTAGAATCTGTCCACTCCTGCTT  
+HWI-EAS443:3:65:1298:639#0/1  
abbaaaa`a`aba¥aaba]`aaa`a`\_`^`a`Z\_¥\_[\_`\_`  
@HWI-EAS443:3:65:1338:1049#0/1  
GACGGATCAAGAAAGAAGAGTTCTCTGAGATCATGAAGAT  
+HWI-EAS443:3:65:1338:1049#0/1  
abbb]¥Ub^aaabaaabaaa¥aaa`aaaa`\_a`a`^`\_`  
@HWI-EAS443:3:65:1373:807#0/1  
AATGCCAGCCCATGGTCCAGCCAAAAGCATGGAATATGAT  
+HWI-EAS443:3:65:1373:807#0/1  
\_\_`a`aW[`aaaaaa[a¥^`[¥¥U``[]]^`^`]^`a^^`\_`  
@HWI-EAS443:3:65:1433:1523#0/1  
GAACAATTGAAGAGCCATCTGGGCCGTTGCAGGTCCAAGG  
+HWI-EAS443:3:65:1433:1523#0/1  
aaa`aaaa`aaaa`\_aa^a`¥aZ`a`\_`Z`adW^W`\_`\_`^`  
@HWI-EAS443:3:65:1567:198#0/1  
AGCCTCTCTTATTTCAGTCTTTGTTTTTTCTTCCCTATTGT  
+HWI-EAS443:3:65:1567:198#0/1  
`b`bbababaa`b`bbbabbbbbbbbb^H\_baabbbb`a`  
@HWI-EAS443:3:65:1582:445#0/1  
CAGCTGACATGAGTATTGGAGTAACAGTGATAAAGAACAA  
+HWI-EAS443:3:65:1582:445#0/1  
^a`a¥`a`¥Yb¥UW]^`^]\_U0^YXJT00¥XTT¥\_ZVZV^]  
@HWI-EAS443:3:65:1620:930#0/1  
ATTTCTTTTGTCCAAGATTCAGTATCGAGACTCCCAAGAC  
+HWI-EAS443:3:65:1620:930#0/1  
abbbabbbba`aaababbabaaabbaabaaaa`aaaa`¥`  
@HWI-EAS443:3:65:1636:1992#0/1  
ATGGAATCAATGAACAAAGAGGAAATAGAGATAACAACCC  
+HWI-EAS443:3:65:1636:1992#0/1  
^[\_`\_\_\_a`aba`\_Y`]Va\_[\_`^`a]]Q^a]`aaa`\_`[ZU  
@HWI-EAS443:3:65:1697:1324#0/1  
ATGAATCAGCTGACATGAGTATTGGAGTAACAGTGATAAA

+HWI-EAS443:3:65:1697:1324#0/1  
\_aa`Z\_Y]^Q\_\_T\_]\_^Z[W^\_]T^MS`¥QUESJSZ[[  
@HWI-EAS443:3:65:1713:828#0/1  
ATTCCCCTAACTTGCAGGTCCTGTAGAATCTGTCCACTC  
+HWI-EAS443:3:65:1713:828#0/1  
`aaa`\_aaba`aabaa`baWR^a]\_aa\_a`^\_aW¥X\_]M  
@HWI-EAS443:3:65:1729:392#0/1  
GGGCTCCAATCATCCGACGATTTTGTCTCATAGTGAATG  
+HWI-EAS443:3:65:1729:392#0/1  
abaa`aababaab`\_baabaaaba[\_a`baaaaa]b``aa  
@HWI-EAS443:3:65:1763:650#0/1  
CCACAGCATTGTTTACAGAATCAATCTCTTTATGACTGAC  
+HWI-EAS443:3:65:1763:650#0/1  
aababbabbbbabbab``bb`bab`b`bbbb`a\_baa\_  
@HWI-EAS443:3:65:17:599#0/1  
CTCCCAGTAGGGGCAATGAAAAGAAGGCCAAACTGGCAA  
+HWI-EAS443:3:65:17:599#0/1  
aaaab\_aVaaa\_\_\_a^`a\_\_\_\_^`\_]\_\_\_\_]^Y`]]^\_  
@HWI-EAS443:3:65:22:1594#0/1  
CAATACTCAGAAAAGGAAAGTGGACGACAAACACAGAGA  
+HWI-EAS443:3:65:22:1594#0/1  
aabbbbaa]b^`^`a¥Z\_a^\_ZY\_a]`W]aa`a¥\_`\_]U  
@HWI-EAS443:3:65:241:564#0/1  
CACTCCTGCTTGTATTCCCTCATGGTTTGGTGCATTCACT  
+HWI-EAS443:3:65:241:564#0/1  
abaabbababbaaabaaba\_`aaa\_abaYa\_]a\_`¥]`  
@HWI-EAS443:3:65:26:1422#0/1  
ATCCCACCCAGGAATATTTGAGAATTCATGCCTTGAACA  
+HWI-EAS443:3:65:26:1422#0/1  
`)]`\_aa\_`\_`\_^\_¥X\_\_\_\_^`\_]\_\_\_\_]`¥X\_]`^W]]\_Z`  
@HWI-EAS443:3:65:297:546#0/1  
TCATTGATTCCATTACATCCTTTAAGAAATCTATTAGCCT  
+HWI-EAS443:3:65:297:546#0/1  
aa^`aaaaaaaaaaaaaaaaaaaaa\_]a^aaaaa\_a`a`a  
@HWI-EAS443:3:65:306:216#0/1  
GATTGATGCCAGGGTCGACTTCGAGTCTGGACGGATCAAG  
+HWI-EAS443:3:65:306:216#0/1  
XJ\_aa^aaa^a[\_aT\_aS[\_Z\_`^`¥¥[^[[V[YT[WZSU  
@HWI-EAS443:3:65:319:587#0/1  
TGTGGGATCAAACCAATCAAAGGTAGGGCTATTAGTATC  
+HWI-EAS443:3:65:319:587#0/1  
U\_RYU\_Sa[\_[U]aZUXUZ]YLZWDH¥^0]^]SWYW[a]\_  
@HWI-EAS443:3:65:320:600#0/1  
AACAGATCTTCATGATCTCAGAGAACTCTTCTTTCTTGAT  
+HWI-EAS443:3:65:320:600#0/1  
]aaa\_R`abaaa`\_\_Zaa```Ya[\_\_\_]\_`\_\_a\_\_``]¥[\_  
@HWI-EAS443:3:65:323:733#0/1  
CTCTTCTAATAGATGGCACAGCATCACTGAGTCCTGGGAT  
+HWI-EAS443:3:65:323:733#0/1  
aaa\_]abaa]P¥^\_a`b\_] ]^]aaa`aaaa]Y``aaaS^

@HWI-EAS443:3:65:325:946#0/1  
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+HWI-EAS443:3:65:325:946#0/1  
^¥WT`]ZY^]aY``Xaa`\_[XU`UNHQR]]NYXKS[^S  
@HWI-EAS443:3:65:338:760#0/1  
CCCCGATTGATGCCAGGGTCGACTTCGAGTCTGGACGGAT  
+HWI-EAS443:3:65:338:760#0/1  
aabaa]aa`\_aaa`][aV`a``\_a`^`Z`^^[S[¥\_[[  
@HWI-EAS443:3:65:346:952#0/1  
GCCTCTTCTAATAGATGGCACAGCATCACTGAGTCCTGGG  
+HWI-EAS443:3:65:346:952#0/1  
aa`^aa`\_aa`\_JY\_\_aYa`]^`a]^\_\_`aUYQ`\_\_^\_  
@HWI-EAS443:3:65:411:1152#0/1  
AATGAACCAAGTGGGTATGCACAAACAGACTGTGTTCTAG  
+HWI-EAS443:3:65:411:1152#0/1  
a`[SYZZ\_[U^[^XXX^XPXXX¥¥]]X]YYXWSXWUUXB  
@HWI-EAS443:3:65:414:1112#0/1  
AAGAAGATGGTCACGCAAAGAACAATAGGGAAGAAAAAAC  
+HWI-EAS443:3:65:414:1112#0/1  
\_```bbaaba^b^aaaaaaa`aaa^a^`]`¥\_aaa\_Z\_`a  
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GAATCTGTCCACTCCTGCTTGTATTCCCTCATGGTTTGGT  
+HWI-EAS443:3:65:461:1272#0/1  
\_U`¥a\_0Xaba^]a`^]\_\_a¥Q\_\_Yaa^]¥VXWVZa[PPK  
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ATCCCAGGACTCAGTGATGCTGTGCCATCTATTAGAAGAG  
+HWI-EAS443:3:65:462:1155#0/1  
^ab\_ab¥`\_a]R^]R^a^`\_`XY``]K]a`^`XRYRUPJ  
@HWI-EAS443:3:65:487:356#0/1  
AAACCATGAGGGAATACAAGCAGGAGTGGACAGATTCTAC  
+HWI-EAS443:3:65:487:356#0/1  
Z\_W]aabbabaaaa`a`\_aa`aaa\_a^a`\_``\_Z^^¥]Y  
@HWI-EAS443:3:65:49:1013#0/1  
TGCTCTTATTAGATAGCCTCTCTTATTTCAGTCTTTGTTTT  
+HWI-EAS443:3:65:49:1013#0/1  
a`a\_baa`aX[aY`^`a`\_aa`\_]a\_\_^`[\_\_\_``\_]`^\_  
@HWI-EAS443:3:65:503:1324#0/1  
ACGGAATCTTCACATTCCTGAAGTCTGCTTAAAATGGGAG  
+HWI-EAS443:3:65:503:1324#0/1  
^`^^aa[aa^aaa]a^aa¥^\_aW\_\_^`\_`\_`[\_\_\_]^]  
@HWI-EAS443:3:65:507:676#0/1  
GTGTGTTCTGTTTACTGTGTCCATGGTGTATCCTGTTCCCT  
+HWI-EAS443:3:65:507:676#0/1  
a`a\_a\_aaa`\_aa¥`a`^a^aa`\_`\_Waa`\_```\_`¥¥\_^[  
@HWI-EAS443:3:65:539:812#0/1  
CCCCGAGTGGTTCAGAAACATCCTGAGCATGGCACCCATAA  
+HWI-EAS443:3:65:539:812#0/1  
aab\_[^]a\_\_aY¥VXaaa^`\_]XZ```^^[\_\_\_[QV]\_]  
@HWI-EAS443:3:65:55:234#0/1  
GCCCATCATCATCCCAGGACTCAGTGATGCTGTGCCATCT

+HWI-EAS443:3:65:55:234#0/1  
T\_b\_WZ\_Z^a^\_aa\_]\_¥]Y\_` `a\_[^\_]¥GW\_Z\_[Y¥]¥]  
@HWI-EAS443:3:65:566:137#0/1  
TCTGTTTACTGTGTCCATGGTGTATCCTGTTCCCTGTTCCA  
+HWI-EAS443:3:65:566:137#0/1  
\_]^^Xb`T`¥]]SMY`X^]YDZU¥Q]\_`VF\_]VVPYNL]U  
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+HWI-EAS443:3:65:593:700#0/1  
abaaa`abbaa`b`aaaaaa\_aa`aaaa` `a`aaa^a\_\_\_\_  
@HWI-EAS443:3:65:617:933#0/1  
AAATCGTCGGATGATTGGAGCCCATCCCACCAGTATATTG  
+HWI-EAS443:3:65:617:933#0/1  
`U^aaaUa`aa\_]`a\_^]`a`aa\_aa`\_a^X\_VX\_\_\_\_^\_  
@HWI-EAS443:3:65:650:247#0/1  
CAACGGCCCAGATGGCTCTTCAATTGTTTCATCAAAGACTA  
+HWI-EAS443:3:65:650:247#0/1  
aabbabaaa`baa`a\_`a\_`aaa` `]a\_a^^¥\_`¥\_X]\_  
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CAACCGGCAGCAACTGCATTGGCCAACCCATAGAAGTCT  
+HWI-EAS443:3:65:659:147#0/1  
aba` `bbbabW^\_^[\_]`aaaaa`a[a]VV[aa\_^`Q¥`  
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ATTGATGCCAGGGTCGACTTCGAGTCTGGACGGATCAAGA  
+HWI-EAS443:3:65:664:1776#0/1  
]\_\_\_\_¥W¥\_`¥[TUOW[Z¥WQYZTQK^ZOO^]XYXSW`XTV  
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GGGCAATGAAAAGAAGGCCAAACTGGCAAATGTTGTGAGA  
+HWI-EAS443:3:65:677:1278#0/1  
]a¥a` `Y]aX[Z`Za¥a¥¥`^X¥` ` ` \_HZabU]^UYQ\_`  
@HWI-EAS443:3:65:689:1161#0/1  
CAACCCGATTGATGGACCACTACCTGAGGATAATGAACCA  
+HWI-EAS443:3:65:689:1161#0/1  
\_`^` ` `a\_ba^^\_a]Z\_aaaa[\_aa^I^]¥aba`\_aS[Z`  
@HWI-EAS443:3:65:693:131#0/1  
AGCCCTTCTTTTTAACTTGCCTCTCTCTGCATCTTTGGTC  
+HWI-EAS443:3:65:693:131#0/1  
aaa`aaa\_aaaaa`\_aaa`^a\_a` `\_\_a^\_]` ` \_\_XY^  
@HWI-EAS443:3:65:71:993#0/1  
CACCAATACTCAGAAAAGGGAAAGTGGACGACAAACACAG  
+HWI-EAS443:3:65:71:993#0/1  
]ba`\_Ua`b]]bbba`Y\_\_XSa\_\_Ua]^aXaa]bTabaa^  
@HWI-EAS443:3:65:744:1124#0/1  
GGCCCGGATTGATGCCAGGGTCGACTTCGAGTCTGGACGG  
+HWI-EAS443:3:65:744:1124#0/1  
XO\_` `T]Y¥¥Z^UR]X]] [¥QX¥\_^\_\_\_\_]ZRP[XXY` `¥  
@HWI-EAS443:3:65:750:1081#0/1  
TTCCCTTTTCTGAGTATTGGTGTGTTCTGTTTACTGTGTC  
+HWI-EAS443:3:65:750:1081#0/1  
aaabaaaa]`a`Za[aaaa]a[aVaaZ¥]aaa^` [¥a¥¥

@HWI-EAS443:3:65:753:877#0/1  
ATCCCACCCAGGAATATTTGAGAATTCATGCCTTGAAACA  
+HWI-EAS443:3:65:753:877#0/1  
Y]bb\_X]\_\_¥]TPa¥FWSY^Z]Y¥aW`S[¥SUVV¥\_Pa]`  
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GCCATGCTCAGGATGTTTCTGAACCACTCGGGTTGATTTC  
+HWI-EAS443:3:65:75:201#0/1  
a`\_^]a\_\_[[T^W[]V]Y¥ZVX^VVXTOY^^¥VSLNNTT  
@HWI-EAS443:3:65:773:1160#0/1  
CGTCGGATGATTGGAGCCCATCCCACCAGTATATTGTCTT  
+HWI-EAS443:3:65:773:1160#0/1  
aZP\_aaWZ\_\_\_\_\_ [Z]aaa`aaa`X`]Y\_0Ta`a[Z¥\_\_`  
@HWI-EAS443:3:65:822:483#0/1  
GGCCAATGCAGTTGCTGCCGTTGATTTCTGTTAATGTC  
+HWI-EAS443:3:65:822:483#0/1  
\_^baaa`a`aa\_ba\_`a\_``aVaa0^aaVaa\_a`¥```[^  
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CCGAGTGGTTCAGAAACATCCTGAGCATGGCACCCATAAT  
+HWI-EAS443:3:65:833:543#0/1  
aa`^`Z]\_OXRW^bbba`a`[^`Za\_¥]^Z[X[¥X¥]`^X  
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GAACCAAGTGGGTATGCACAAACAGACTGTGTTCTAGAGG  
+HWI-EAS443:3:65:839:1877#0/1  
`bbbabb`¥bba]baa`baaa`aa\_a``a[^`Pa``aY]]\_  
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ATTGAAGAGCCATCTGGGCCGTTGCAGTCCAAGGTCATT  
+HWI-EAS443:3:65:841:76#0/1  
abbbaab]baaaa`aaaa\_`a```\_`a`U]\_\_¥a\_W]^`\_  
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+HWI-EAS443:3:65:848:1816#0/1  
[baa\_bab]`ba`a\_aaa]`aaa`aa¥^a`\_aa\_^Y^\_\_`  
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GAAGAATCCCACCCAGGAATATTTGAGAATTCATGCCTTG  
+HWI-EAS443:3:65:878:62#0/1  
aYa`aa`^[\_a]^\_\_\_\_\_¥¥\_\_\_\_\_`^`^a]^`]]\_]V[]\_  
@HWI-EAS443:3:65:904:1991#0/1  
GGTTGTTATCTCTATTTCTCTTTGTTTCATTGATTCCATT  
+HWI-EAS443:3:65:904:1991#0/1  
``\_`a\_ZXX^XY^[UKXVX^^^ZPPX^^[PPV^WWWVY]]  
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ATTGATGCCAGGTCGACTTCGAGTCTGGACGGATCAAGA  
+HWI-EAS443:3:65:904:744#0/1  
ababa\_bb\_Y]aa¥ba\_a`Y^RH][aZ`a``aa\_^[\_a\_\_  
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GGGCAATGAAAAGAAGGCCAAACTGGCAAATGTTGTGAGA  
+HWI-EAS443:3:65:912:573#0/1  
aV`RR¥aa\_^Y[`\_\_Ta[¥Y\_`\_\_][Z`R[``a^\_¥\_^a¥  
@HWI-EAS443:3:65:919:1426#0/1  
GCATTTGCGAAAAGCTTGAACAGTCTGGGCTCCCAGTAGG

+HWI-EAS443:3:65:919:1426#0/1  
aaY`a¥Z\_Y\_]Z]]^Z^RY^]aa\_aYVX^]^a^PVXQ^Z^  
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GACAAACACAGAGACTGGTGCACCCAGCTCAACCCGATT  
+HWI-EAS443:3:65:953:603#0/1  
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CTAGCTAAAGTTTCAACAAAGTATACGAAACCTCTAATCT  
+HWI-EAS443:3:65:982:229#0/1  
\_a¥bbb`[WaW\_`Rwa]a\_¥^aaa`a\_abbWW][`X\_\_T\_  
@HWI-EAS443:3:65:996:476#0/1  
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+HWI-EAS443:3:65:996:476#0/1  
\_bbb`b``a``aaaaa]^`abbaba\_]\_aaaaa^^]^  
@HWI-EAS443:3:66:1015:1875#0/1  
CTCCCCTATGGCACCTATATGTGTATCTGTAGTCTTTGAT  
+HWI-EAS443:3:66:1015:1875#0/1  
ababbabbba\_abaaaa[baa^b¥aaaaa^\_a``a`a\_a\_  
@HWI-EAS443:3:66:1061:1223#0/1  
TAATGAACCAAGTGGGTATGCACAAACAGACTGTGTTCTA  
+HWI-EAS443:3:66:1061:1223#0/1  
aba\_a`aaaaa^aaaZa`\_`````[¥a`\_^\_\_V`¥^Y]]  
@HWI-EAS443:3:66:1080:1772#0/1  
CAGTGATTGTGAAAGAAATCTCTGTGTCTTGTGAATTAGT  
+HWI-EAS443:3:66:1080:1772#0/1  
`b`Vaa^`]a^`bababbbbabba`a`[^a¥\_XQa]a]]Y  
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AGAACAACATGATAAACAATGACCTTGGACCTGCAACGGC  
+HWI-EAS443:3:66:1090:356#0/1  
`babaabaaaaaaaaaaaaa\_aa``^aaaaa\_aa`^`\_``^  
@HWI-EAS443:3:66:109:1152#0/1  
CTCCCCTATGGCACCTATATGTGTATCTGTAGTCTTTGAT  
+HWI-EAS443:3:66:109:1152#0/1  
`U`aa\_[Z[ZOXTTTQ[[JYWTVSV]^SXUQPVY\_XTZT  
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+HWI-EAS443:3:66:1110:787#0/1  
abbb`bbab[\_ababaabaababab`a]\_aaaaY¥^S^`  
@HWI-EAS443:3:66:111:129#0/1  
GCCAGGGTCGACTTCGAGTCTGGACGGATCAAGAAAGAAG  
+HWI-EAS443:3:66:111:129#0/1  
^ba^U^^G¥a`aa¥\_aY\_]\_`X`[YaTLYW[¥WWW`\_^PV  
@HWI-EAS443:3:66:1126:1694#0/1  
GTGGTCCATCAATCGGGTTGAGCTGGGGTGCACCAGTCTC  
+HWI-EAS443:3:66:1126:1694#0/1  
^^`^]¥aa\_a\_\_\_YaaaS]S¥aW^ZZ^WU\_Y¥^[\_¥SX¥V  
@HWI-EAS443:3:66:1130:990#0/1  
GTAGGGGGCAATGAAAAGAAGCCAAACTGGCAAATGTTG  
+HWI-EAS443:3:66:1130:990#0/1  
a¥¥``a`a\_a`a`a`\_````\_`^`^^`^`\_\_`\_`^^`Y]\_

@HWI-EAS443:3:66:1141:349#0/1  
GGGCTATTAGTATCAGATGGAGGACCAAACCTTATACAATA  
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abaaabbbb`Uabaabaaaa`aa`a`a`aaaa\_```a  
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AAGTTAAAAAGAAGGGCTATCGCAACACCTGGGATGCAGA  
+HWI-EAS443:3:66:1151:1928#0/1  
aa`]abbaaaa`aa^`aaa\_`^^`dWa^a\_\_a\_\_^\_\_^^\_  
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AGTTAAAGAAGCTGTGGGATCAAACCCAATCAAAGGTAGG  
+HWI-EAS443:3:66:1240:1044#0/1  
aa`a^`a^`]ab\_\_\_\_\_X`^]¥^`a\_U[^]¥0\_\_YR[\_  
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GTTTGGTGCATTCACTATGAGAGCAAAATCGTCGGATGAT  
+HWI-EAS443:3:66:1246:624#0/1  
a\_a`a\_Ya`\_````]a`a^a\_a^`\_\_\_\_\_^\_]^^^]\_^\_^^  
@HWI-EAS443:3:66:1267:463#0/1  
GGGTGCACCAGTCTCTGTGTTTGTCTCCACTTCCCTTT  
+HWI-EAS443:3:66:1267:463#0/1  
^a¥0\_X^^baba]a`\_a]^R\_b\_W`UX`¥¥[``]`a`^^a  
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TGATGCCGTTGCAACTACACATTCCTGGATCCCAAGAGG  
+HWI-EAS443:3:66:1284:80#0/1  
aa`baaaa`aaa\_\_T^`¥`Y^`^UZ]`WV]\_`Y\_`^\_Y^]  
@HWI-EAS443:3:66:1316:722#0/1  
AAGACAATATACTGGTGGGATGGGCTCCAATCATCCGACG  
+HWI-EAS443:3:66:1316:722#0/1  
`¥aaaaaa^a`aaa¥a\_a\_`]\_W¥]\_¥\_``]]^\_Z¥]X\_  
@HWI-EAS443:3:66:1317:339#0/1  
CCCGGATTGATGCCAGGGTCGACTTCGAGTCTGGACGGAT  
+HWI-EAS443:3:66:1317:339#0/1  
`]`baababaa`aa`aa`Y\_a\_\_aa`a^a^aaa]0`^¥Y  
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CACTGACATTAATACGATGACCAAAGATGCAGAGAGAGG  
+HWI-EAS443:3:66:1324:981#0/1  
abbbbbbaabbaabaabaa`aaaa`aaaa\_aa\_a\_a\_a`  
@HWI-EAS443:3:66:1341:605#0/1  
ATTGATGCCAGGGTCGACTTCGAGTCTGGACGGATCAAGA  
+HWI-EAS443:3:66:1341:605#0/1  
ababaaab``aaaY`\_a^aa\_^^`\_\_\_aa\_\_aa^U¥\_a^  
@HWI-EAS443:3:66:1368:528#0/1  
GTTGATCCCACTAACTTGCAGGTCCTGTAGAATCTGTCC  
+HWI-EAS443:3:66:1368:528#0/1  
^`bbabaaZ`aba`]`aaaa`a\_`^¥\_b^aa`[\_`a\_aQOU  
@HWI-EAS443:3:66:1425:1474#0/1  
AAACAATGCTGTGGTAATGCCAGCCCATGGTCCAGCCAAA  
+HWI-EAS443:3:66:1425:1474#0/1  
``aaaaaaa\_a`\_a^¥R][aXXX¥`\_]YW^]\_ZRUZ\_\_  
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+HWI-EAS443:3:66:1433:650#0/1  
ab`ab\_b`aabYbabba`aaa`aaaa`^aaa`Y\_U\_]T  
@HWI-EAS443:3:66:1434:721#0/1  
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+HWI-EAS443:3:66:1434:721#0/1  
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AACATTTGCCAGTTTGGCCTTCTTTTCATTGCCCCCTACT  
+HWI-EAS443:3:66:1530:1222#0/1  
\_`bbbbabb]^abbbbaZ`babbabaa`aa`a`]]aa`a  
@HWI-EAS443:3:66:1533:2027#0/1  
ATCGTATTTAATGTCAGTGCCTTATTAGATAGCCTCTCT  
+HWI-EAS443:3:66:1533:2027#0/1  
ab`b`aabbaaaa\_aaa][Q[\_`a`a``\_]RSPZ¥Y`  
@HWI-EAS443:3:66:1548:325#0/1  
AATAGATGGCACAGCATCACTGAGTCCTGGGATGATGATG  
+HWI-EAS443:3:66:1548:325#0/1  
a^`aaaa`]^`aaa\_`[a¥\_`^`aU[W`^\_]`^Z]YY¥\_W^]  
@HWI-EAS443:3:66:1558:1857#0/1  
CTTCCCTAGTCTTGCCATTTTGTGGAGAACATTATGGG  
+HWI-EAS443:3:66:1558:1857#0/1  
ababb`\_bbbYabb`a`bbbb`baabaa\_a`¥\_aa\_aa^\_  
@HWI-EAS443:3:66:1580:2001#0/1  
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+HWI-EAS443:3:66:1580:2001#0/1  
abaabbaaa``aaaaaba`aaa`aaaaaaa`a\_aa\_`^aU  
@HWI-EAS443:3:66:159:1858#0/1  
GATGTCAATCCGACTCTACTTTTCCTAAAAATCCAGCGC  
+HWI-EAS443:3:66:159:1858#0/1  
Y\_bK^abbb`\_ZWVaaa`]aabXbaab``aa`aa¥`aaXa  
@HWI-EAS443:3:66:162:560#0/1  
AAGGGATTCAGGGGATTACAAAGTCTTCCCCGATAATCAT  
+HWI-EAS443:3:66:162:560#0/1  
Z¥¥\_VN]Z`a^``a]T`]YZ¥T¥`\_\_`^^[QWRWY¥[W  
@HWI-EAS443:3:66:1697:1269#0/1  
CTTTATGACTGACAAAGGGATTACAAAGTCT  
+HWI-EAS443:3:66:1697:1269#0/1  
¥`\_] [WZ¥`RY\_^[XX\_a`a]0]` `a`¥WWWaTZ¥WIPV  
@HWI-EAS443:3:66:1705:1266#0/1  
GTCCTCCATCTGATACTAATAGCCCTACCTTTGATTGGGT  
+HWI-EAS443:3:66:1705:1266#0/1  
\_``[aa\_aba\_^\_` ` `[\_aaa`]aa`a``aa[`¥[]WW  
@HWI-EAS443:3:66:1713:791#0/1  
GGGATGGGCTCCAATCATCCGACGATTTTGCTCTCATAGT  
+HWI-EAS443:3:66:1713:791#0/1  
\_b\_`aaaaaa`a` `a\_`a\_a\_aaa]`a`a`^\_\_a`^¥^Z  
@HWI-EAS443:3:66:1737:1149#0/1  
GCAGACTTCAGGAATGTGAAGATTCCGTATATTGTATAAG  
+HWI-EAS443:3:66:1737:1149#0/1  
aa^^^^aaaaa¥XY¥`[\_` `a\_\_`Z]a]W¥Za` `]^`]T\_



@HWI-EAS443:3:66:186:849#0/1  
AATGGATGATGATTATCGGGGAAGACTTTGTAATCCCCTG  
+HWI-EAS443:3:66:186:849#0/1  
aa^`\_Xa`^^aa^`a`a^a]Z^]]a\_\_SYM¥]]\_¥][Z  
@HWI-EAS443:3:66:191:1521#0/1  
ATGGGCTCCAATCATCCGACGATTTTGCTCTCATAGTGAA  
+HWI-EAS443:3:66:191:1521#0/1  
aaY`\_a\_aaaa`\_]`¥]`\_^]`^`\_`\_`\_]U[^  
@HWI-EAS443:3:66:192:1235#0/1  
GCCAGTTTGGCCTTCTTTTCATTGCCCCCTACTGGGAGCC  
+HWI-EAS443:3:66:192:1235#0/1  
aa\_] [¥aa\_]ab`aaa`aaaa`aaa^aa`¥a`]PV^\_ZN  
@HWI-EAS443:3:66:205:739#0/1  
CCCGGATTGATGCCAGGGTCGACTTCGAGTCTGGACGGAT  
+HWI-EAS443:3:66:205:739#0/1  
aa\_¥[T^`VVV]]YUZRRR^SMQZX^[[YRZUWUZZ[[TW  
@HWI-EAS443:3:66:223:1226#0/1  
ATTTCTTTTGTCCAAGATTCAGTATCGAGACTCCCAAGAC  
+HWI-EAS443:3:66:223:1226#0/1  
S`baabbb`W\_bb`a`aaaa`^baaa``aa`b\_aaY^^a  
@HWI-EAS443:3:66:230:1988#0/1  
GCTGTGGTAATGCCAGCCCATGGTCCAGCCAAAAGCATGG  
+HWI-EAS443:3:66:230:1988#0/1  
aba`W`^aa`\_a^Z¥aaaa\_[\_T\_a\_\_`^`\_\_TY^WUW  
@HWI-EAS443:3:66:240:30#0/1  
CAGGACTCAGTGATGCTGTGCCATCTATTAGAAGAGGCCT  
+HWI-EAS443:3:66:240:30#0/1  
aba`aba`aab]`\_\_aa¥aaaa`a`a`]`^^aWa\_]\_\_  
@HWI-EAS443:3:66:264:302#0/1  
TGTAGTCTTTGATGAACAATTGAAGAGCCATCTGGGCCGT  
+HWI-EAS443:3:66:264:302#0/1  
ab````ababaaaaa`aaaa`X`]Z^`a`aa^\_\_^^`¥  
@HWI-EAS443:3:66:358:810#0/1  
ATGCTCAGGATGTTTCTGAACCACTCGGGTTGATTTCTGG  
+HWI-EAS443:3:66:358:810#0/1  
`^¥aa¥^W`R]a[SYa\_a^]]\_a]^a```Y[U]`\_`\_`\_  
@HWI-EAS443:3:66:36:1007#0/1  
ACAGGAACAGGATACACCATGGACACAGTAAACAGAACAC  
+HWI-EAS443:3:66:36:1007#0/1  
aaa]Y¥`\_Q¥ZY[\_\_\_S[a]X¥]\_]\_]\_^X\_[Y^\_Q]UU[X  
@HWI-EAS443:3:66:417:1663#0/1  
ATTGTTTCATCAAAGACTACAGATACACATATAGGTGCCAT  
+HWI-EAS443:3:66:417:1663#0/1  
\_]`¥U]\_T]`X`¥YQa]^aVZa`[¥aab[b\_`ZVF¥][YY  
@HWI-EAS443:3:66:424:719#0/1  
GCAGACTTCAGGAATGTGAAGATTCCGTATATTGTATAAG  
+HWI-EAS443:3:66:424:719#0/1  
abaaaaa`aa^aaa^a`aa\_``aa^a\_``aa^aa[^`  
@HWI-EAS443:3:66:431:1393#0/1  
CAGATCTTCATGATCTCAGAGAACTTCTTTCTTGATCC

+HWI-EAS443:3:66:431:1393#0/1  
a^`[aaaaba^a`[\_aS`[\_U^\_b]^`^^]`[\_\_Xa]U]  
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TCCCCGATAATCATCATCCATTAGCTCCCATTTTAAGCAG  
+HWI-EAS443:3:66:434:1724#0/1  
\_bbaa]aa]]abY^a```aa`\_`^`^Y]`\_\_a`\_]XU^¥  
@HWI-EAS443:3:66:448:677#0/1  
CAATTGAAGAGCCATCTGGGCCGTTGCAGGTCCAAGGTCA  
+HWI-EAS443:3:66:448:677#0/1  
]\_``abb^b`[a[Z`\_aaaaaab\_]X`¥]ZX`aaYa^U\_\_  
@HWI-EAS443:3:66:495:875#0/1  
CCATCTGATACTAATAGCCCTACCTTTGATTGGGTTTGAT  
+HWI-EAS443:3:66:495:875#0/1  
aaa``aaaa\_a`a`[\_`\_`U[\_`^`\_`XX\_]`^ZZ]`^`  
@HWI-EAS443:3:66:534:1228#0/1  
AAGAATCCCACCCAGGAATATTTGAGAATTCATGCCTTGA  
+HWI-EAS443:3:66:534:1228#0/1  
a```a`baaa\_aa]`]][^aa`\_`^`¥\_Z`\_`^`Z`^`^^  
@HWI-EAS443:3:66:555:108#0/1  
TGGATGATGATTATCGGGGAAGACTTTGTAATCCCCTGAA  
+HWI-EAS443:3:66:555:108#0/1  
abaaaba`aaaaaa\_aa`a`^`\_`Y`^a`\_`^`^`]]^`\_`W`  
@HWI-EAS443:3:66:569:488#0/1  
GAACAATTGAAGAGCCATCTGGGCCGTTGCAGGTCCAAGG  
+HWI-EAS443:3:66:569:488#0/1  
aa¥`\_`a`a`b`\_`\_`a`aa^^`\_`a`a]`\_`\_`\_`W`V^^]]  
@HWI-EAS443:3:66:582:1987#0/1  
GACGACAAACACAGAGACTGGTGCACCCCAGCTCAACCCG  
+HWI-EAS443:3:66:582:1987#0/1  
a`^`a``baaRaa`^^Y`ZYVHIT`X``^^[Y[^]^[Y^U  
@HWI-EAS443:3:66:705:1653#0/1  
ATTAGCCTTCCTGACTCATTAGCTGTTAGGCCATTCGATC  
+HWI-EAS443:3:66:705:1653#0/1  
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@HWI-EAS443:3:66:706:322#0/1  
GCCCTACCTTTGATTGGGTTTGATCCCACAGCTTCTTTAA  
+HWI-EAS443:3:66:706:322#0/1  
aba`a`aa`ab`b`a`aa`aaaa`\_`a`aaa`\_`a`\_`\_`\_`a`  
@HWI-EAS443:3:66:715:1732#0/1  
GCGAAAAGCTTGAACAGTCTGGGCTCCCAGTAGGGGGCAA  
+HWI-EAS443:3:66:715:1732#0/1  
aaZ¥a`a]abbaba[`]\_aaa\_\_a`aa^[\_VW`X`\_`^`\_aa  
@HWI-EAS443:3:66:73:1888#0/1  
CCCATTTTAAGCAGACTTCAGGAATGTGAAGATTCCGTAT  
+HWI-EAS443:3:66:73:1888#0/1  
abb`\_`aaaababa`a]\_`aa\_]`[[\_Y`\_`a\_]`^^a`aVa`  
@HWI-EAS443:3:66:789:1441#0/1  
GAGATAACAACCCACTTTCAAAGAAAAAGGAGAGTAAGAG  
+HWI-EAS443:3:66:789:1441#0/1  
a`a`aaa`aaa`\_`[\_`aaa]`\_`\_`\_]`W]R]^]\_`^`V`\_`¥`\_`\_`

@HWI-EAS443:3:66:808:721#0/1  
GAGCACTGACATTAATACGATGACCAAAGATGCAGAGAG  
+HWI-EAS443:3:66:808:721#0/1  
aa`a`bbbaabb¥`aaa\_ba`\_aa`]a`aa`a^aaYaa`  
@HWI-EAS443:3:66:812:1804#0/1  
GCCCTACCTTTGATTGGGTTTGGTCCACAGCTTCTTTAA  
+HWI-EAS443:3:66:812:1804#0/1  
aaabaa`abbaa`aaa`^`\_aaaaaaaa`\_`aaa\_`a`  
@HWI-EAS443:3:66:817:1666#0/1  
CCCACCCAGGAATATTTGAGAATTCATGCCTTGAACAAT  
+HWI-EAS443:3:66:817:1666#0/1  
aaabaabaaa`aa`\_aaaa\_aaa` `a`a]a` `^`\_`\_`  
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AAAAATTCAGCGCAAATGCCATAAGCACCATTCCT  
+HWI-EAS443:3:66:835:1816#0/1  
aa`^YY^Y` [XYKR¥Z[¥¥Q[T¥R^TY\_Y[QZ^\_XXOMQY  
@HWI-EAS443:3:66:867:635#0/1  
GGGGCAATGAAAAGAAGGCCAACTGGCAAATGTTGTGAG  
+HWI-EAS443:3:66:867:635#0/1  
aa`]`aa`Z]a`a`aa`\_`aa`\_`^`\_`\_` [aa^aa`\_`\_`  
@HWI-EAS443:3:66:908:23#0/1  
GCTCCCAGTAGGGGCAATGAAAAGAAGGCCAACTGGCA  
+HWI-EAS443:3:66:908:23#0/1  
a`X`¥]T\_TU¥^[ `^[]]\_`RV[^[UVW[VUYUWUV[UXU  
@HWI-EAS443:3:66:942:980#0/1  
GAAAGATGATGACTAATTCACAAGACACAGAGATTTCTTT  
+HWI-EAS443:3:66:942:980#0/1  
aa])aaaaaaaa`baaaaaaaaa`aaa`a` ` ` \_\_\_\_\_`  
@HWI-EAS443:3:67:1011:1845#0/1  
CTCCAATCATCCGACGATTTTGCTCTCATAGTGAATGCAC  
+HWI-EAS443:3:67:1011:1845#0/1  
a`a[aTaaWX\_[QTQUFY]]¥Y]U¥Y` [Y[aQ`T^WPRZ]  
@HWI-EAS443:3:67:1013:1118#0/1  
AGGGGGCAATGAAAAGAAGGCCAACTGGCAAATGTTGTG  
+HWI-EAS443:3:67:1013:1118#0/1  
U\_ba`\_b`^bbbbbba` ` `baabbbbaaaaaababbb`abaa  
@HWI-EAS443:3:67:1020:1106#0/1  
GATTGATGCCAGGGTCGACTTCGAGTCTGGACGGATCAAG  
+HWI-EAS443:3:67:1020:1106#0/1  
aa`a[]`ab`\_`Z^Ua`\_`\_]`\_] [Y^`\_Z]^¥^^YU^\_\_  
@HWI-EAS443:3:67:1024:508#0/1  
GATGGGCTCCAATCATCCGACGATTTTGCTCTCATAGTGA  
+HWI-EAS443:3:67:1024:508#0/1  
aaa\_X`¥`a^` `a\_\_aV`\_^ [a^`\_a^a`\_]`\_`\_`\_¥`W^^  
@HWI-EAS443:3:67:1026:1784#0/1  
AAAGAACAACATGATAAACAATGACCTTGGACCTGCAACG  
+HWI-EAS443:3:67:1026:1784#0/1  
XY]RR\_ [^¥`^YabR]\_ZYYaaWL`\_aa\_NYZNP^U`a`\_  
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GTTCTGTTTACTGTGTCCATGGTGTATCCTGTTCTGTTCTGTTCT

+HWI-EAS443:3:67:1102:1429#0/1  
a`^^`^`aabaaZ[^\_a`]aaa\_`¥\_aa\_\_\_\_\_ [X]\_] ^Y  
@HWI-EAS443:3:67:1106:1466#0/1  
CAGCTGATTCATTTACTCCAGACACTCCAAAGCTGGGTAG  
+HWI-EAS443:3:67:1106:1466#0/1  
aYFYVa¥b¥^Y^^SZ[[^aZTY`]YZ]a\_`\_R```Y[R¥W  
@HWI-EAS443:3:67:112:1456#0/1  
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+HWI-EAS443:3:67:112:1456#0/1  
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@HWI-EAS443:3:67:1191:116#0/1  
CTTTGTCAGTCATAAAGAGATTGATTCTGTAAACAATGCT  
+HWI-EAS443:3:67:1191:116#0/1  
abaab\_bbba\_abba\_b^b]a\_baa`\_ab\_`a`Z````^^  
@HWI-EAS443:3:67:1195:850#0/1  
ATGAACCAAGTGGGTATGCACAAACAGACTGTGTTCTAGA  
+HWI-EAS443:3:67:1195:850#0/1  
\_aZbaabba`U``` [b¥SZTU` [[[]\_¥`] ^TU\_aT a\_YP  
@HWI-EAS443:3:67:1203:331#0/1  
AAAGGGATTCAGGGGATTACAAAGTCTTCCCCGATAATCA  
+HWI-EAS443:3:67:1203:331#0/1  
^`bbbb]aaaa]b^a\_Xaaaa^^Z`aaa` `¥¥\_a¥ZaY]  
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CAACGGCCCAGATGGCTCTTCAATTGTTTCATCAAAGACTA  
+HWI-EAS443:3:67:1233:337#0/1  
aaa`Y[^` [[^YXWNS\_^^¥VRVY][FPDM^PO]YUYHY[  
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GAAGCTGTGGGATCAAACCCAATCAAAGGTAGGGCTATTA  
+HWI-EAS443:3:67:1234:817#0/1  
]``^`\_a`aaY^a)`aa[a`aaa]\_``]¥SZ` [VQXa` \_\_  
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+HWI-EAS443:3:67:1252:1418#0/1  
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+HWI-EAS443:3:67:1372:747#0/1  
a^^bbbaaba\_bb^^ba\_aaababbbabbb\_baabaab  
@HWI-EAS443:3:67:1433:90#0/1  
TAGGGCCCGGATTGATGCCAGGGTCGACTTCGAGTCTGGA  
+HWI-EAS443:3:67:1433:90#0/1  
abbbaba`bbaabbaab`aaaab^\_a\_Waa^a^a^\_a\_a^  
@HWI-EAS443:3:67:1458:1156#0/1  
GATTCCCCTAACTTGCAGGTCCTGTAGAATCTGTCCACT  
+HWI-EAS443:3:67:1458:1156#0/1  
aabaaaaabaa\_aa`aaa\_¥`a` `aaaa\_a`^U[\_]\_  
@HWI-EAS443:3:67:1458:1918#0/1  
ATCCGACTCTACTTTTCTAAAAATTCCAGCGCAAATGC  
+HWI-EAS443:3:67:1458:1918#0/1  
¥QH[SQ` [```aaaaaYaa^`` \_\_aYP]] [ `¥X] `` [¥P



+HWI-EAS443:3:67:199:942#0/1  
TRZa]US`bZ]\_XX[]W[`a]WZRYM[`^TMOVXDHJWTT  
@HWI-EAS443:3:67:202:370#0/1  
TGCCTCTCTGCATCTTTGGTCATCGTATTTAATGTCAG  
+HWI-EAS443:3:67:202:370#0/1  
aaabaaaaZ[^\_X\_aaa`WVU`^` `[Z\_`]Z]`^\_TY  
@HWI-EAS443:3:67:226:1598#0/1  
AGATTAGAGGTTTTCGTATACTTTGTTGAACTTTAGCTAG  
+HWI-EAS443:3:67:226:1598#0/1  
aaaaaaP^Y^`\_ab`aaa`\_\_a`]\_a¥`Y^` `\_\_\_\_^`^  
@HWI-EAS443:3:67:240:1068#0/1  
CACCATGGACACAGTAAACAGAACACACCAATACTCAGAA  
+HWI-EAS443:3:67:240:1068#0/1  
aabbaaaaaaaaaa\_ba\_aa\_\_aaa` `\_\_a`a\_` `a]a  
@HWI-EAS443:3:67:244:985#0/1  
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+HWI-EAS443:3:67:244:985#0/1  
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GCATTGGCCAACACCATAGAAGTCTTTAGATCGAATGGCC  
+HWI-EAS443:3:67:26:1332#0/1  
aab`WR\_SaUZaaaZQZXUV\_]Y`Z[^`^ZY]ZV]`^[VV\_  
@HWI-EAS443:3:67:271:1455#0/1  
GCTACCCAGCTTTGGAGTGTCTGGAGTAAATGAATCAGCT  
+HWI-EAS443:3:67:271:1455#0/1  
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@HWI-EAS443:3:67:286:1376#0/1  
GACGATTTTGTCTCATAGTGAATGCACCAAACCATGAGG  
+HWI-EAS443:3:67:286:1376#0/1  
``aa\_]Z`` `T¥^`a]X]]aaaY[]\_a]^]TW`YZ\_^XR  
@HWI-EAS443:3:67:316:107#0/1  
CCCAGTAGGGGCAATGAAAAGAAGCCAAACTGGCAAAT  
+HWI-EAS443:3:67:316:107#0/1  
aaa`a`abbaaaaa`a`\_\_\_\_]a\_a` `^`^^¥\_`\_\_\_\_^^]  
@HWI-EAS443:3:67:371:999#0/1  
AAACAGAAATCAACCGGCAGCAACTGCATTGGCCAACACC  
+HWI-EAS443:3:67:371:999#0/1  
aaabb`]baa`aaa`^]aa\_` `a]Wa¥\_^]V\_^¥U]Y\_V]  
@HWI-EAS443:3:67:406:170#0/1  
GAAGTACTTCAGGTCAATGCTTGCTAGCATTCTGCTGGT  
+HWI-EAS443:3:67:406:170#0/1  
aaY`W`abaaa` `Uaaaa`aaaa^aaaa\_\_`a` `a`X  
@HWI-EAS443:3:67:42:1577#0/1  
CTCCTAGCTAAAGTTTCAACAAAGTATACGAAACCTCTAA  
+HWI-EAS443:3:67:42:1577#0/1  
]RT]]\_]\_]¥ZY0[OWU¥Y]\_]NGVPTKHXMU]Y]T]RBB  
@HWI-EAS443:3:67:443:2042#0/1  
GTGATAAAGAACAACATGATAAACAATGACCTTGGACCTG  
+HWI-EAS443:3:67:443:2042#0/1  
ZP^`abaa`aaaa[a^]aa`aaaaaaa`a]\_a¥Z` `X]

@HWI-EAS443:3:67:456:1693#0/1  
CTGTGGGATCAAACCCAATCAAAGGTAGGGCTATTAGTAT  
+HWI-EAS443:3:67:456:1693#0/1  
¥¥`^]Z^b`^^]`abb`¥Z[aZSZS[^YZ¥\_YbXVa^G\_\_  
@HWI-EAS443:3:67:461:1675#0/1  
ATTAGAAGAGGCCTTATTTTCTCAATTTTCTTCTTTGTTG  
+HWI-EAS443:3:67:461:1675#0/1  
a\_Y]Z`Z]^^UU^]ZY[^Y][ ]WT[¥^[O[^Z[^YVZZ  
@HWI-EAS443:3:67:463:533#0/1  
GCCAGGGTTCGACTTCGAGTCTGGACGGATCAAGAAAGAAG  
+HWI-EAS443:3:67:463:533#0/1  
aaaa\_ZXmb[\_\_\_SaaWTT¥\_aZZ^ZV]¥\_XM¥``\_W^¥¥  
@HWI-EAS443:3:67:477:1602#0/1  
AGAAATCCAACCGGTCTCCTATATGAACTGCTAGGGAAA  
+HWI-EAS443:3:67:477:1602#0/1  
TOPZ¥]]\_¥Y]RU\_¥X¥TP\_] [^a` [K]\_¥a[R`YMW¥\_X  
@HWI-EAS443:3:67:504:1060#0/1  
CATGCTTTTGGCTGGACCATGGGCTGGCATTACCACAGCA  
+HWI-EAS443:3:67:504:1060#0/1  
]aW¥b^`aaaa^aa^a`T¥a\_a`\_\_]HJ^SI][¥[RZYZ  
@HWI-EAS443:3:67:510:44#0/1  
AACAGATCTTCATGATCTCAGAGAACTCTTCTTTCTTGAT  
+HWI-EAS443:3:67:510:44#0/1  
a\_aaa`b\_bb^`aa\_baa\_aa\_aa`a`^a`^a`^`a\_\_\_\_  
@HWI-EAS443:3:67:525:1634#0/1  
GAGATAACAACCCACTTTCAAAGAAAAAGGAGAGTAAGAG  
+HWI-EAS443:3:67:525:1634#0/1  
a\_Xa^a^^X`aa`a\_aaa\_¥^aaa\_a¥QX]¥\_\_Y```\_`\_  
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GGCCTTCTTTTCATTGCCCTACTGGGAGCCCAGACTGT  
+HWI-EAS443:3:67:528:551#0/1  
¥W\_^W\_bbbbaa¥abbbbbb^¥`\_`bbbbb`\_`\_R¥\_\_`\_`\_a  
@HWI-EAS443:3:67:563:1525#0/1  
ACCGGTCTCCTATATGAACTGCTAGGGAAAAATTTCTCGA  
+HWI-EAS443:3:67:563:1525#0/1  
]^aaYUa`aa`aa]W\_`¥Y\_a\_\_\_\_\_Z````\_`^`\_[XY  
@HWI-EAS443:3:67:59:1619#0/1  
AAAGGGATTGAGGGATTACAAAGTCTTCCCCGATAATCA  
+HWI-EAS443:3:67:59:1619#0/1  
[aa\_[Xa\_\_aa¥X][T]\_a`\_`¥[Z\_]\_\_]a^UZ]\_X]]Z  
@HWI-EAS443:3:67:60:193#0/1  
GTGTGTTCTGTTTACTGTGTCCATGGTGTATCCTGTTCCCT  
+HWI-EAS443:3:67:60:193#0/1  
aaaa``abbbbab`aaa\_a`a`aa`Za]\_a`\_`a^`^`^]  
@HWI-EAS443:3:67:637:1819#0/1  
GATTCTTCAAGGAAAGCCATAGCCTCTAGAACACAGTCTG  
+HWI-EAS443:3:67:637:1819#0/1  
aba`bbabbb`\_]a[abbb`¥aaaaaaaaaaaa`a]R\_```  
@HWI-EAS443:3:67:646:1864#0/1  
GGCCATGGTGTCTAGGGCCCGATTGATGCCAGGGTCGAC

+HWI-EAS443:3:67:646:1864#0/1  
`XaaaaaTPP¥a\_a\_```aaa\_\_`a\_`^\_\_a`R`¥UP^^T  
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AGAATCCCACCCAGGAATATTTGAGAATTCATGCCTTGAA  
+HWI-EAS443:3:67:662:620#0/1  
aaaaaaaaaa`aaZaaa`a\_``aaa`\_\_a``\_\_\_\_`^  
@HWI-EAS443:3:67:667:275#0/1  
GTCTCCCCTATGGCACCTATATGTGTATCTGTAGTCTTTG  
+HWI-EAS443:3:67:667:275#0/1  
^Vb\_a[a`a\_]\_\_a\_a\_a\_]\_`aSa\_a```a\_]TZ``[[  
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AGATACACATATAGGTGCCATAGGGGAGACACACAAATTC  
+HWI-EAS443:3:67:681:830#0/1  
a```ababbaba```\_ba\_a\_`^```a\_`\_`a`a[`a[`\_Y  
@HWI-EAS443:3:67:684:239#0/1  
TGCCGTTGCAACTACACATTCCTGGATTCCCAAGAGGAAT  
+HWI-EAS443:3:67:684:239#0/1  
W¥`\_S\_aZWYb¥)`K¥X`[^\_[^baaT^)]\_`RY]Y``\_Z  
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GGGAAAGTGGACGACAAACACAGAGACTGGTGCACCCAG  
+HWI-EAS443:3:67:688:367#0/1  
aab`^b\_aaaa`a\_`N`\_`\_a\_`^`\_¥]^W[V`^^¥¥]¥  
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+HWI-EAS443:3:67:726:624#0/1  
aaab\_\_^\_b\_V\_W\_]RT\_aaa``a\_\_\_XX\_a]XS^`]G^  
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+HWI-EAS443:3:67:748:1478#0/1  
a]abab`\_baa\_aa]baaaa\_\_^^aa\_aa]Y^a\_``^a`a  
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GCTCCAATCATCCGACGATTTTGCTCTCATAGTGAATGCA  
+HWI-EAS443:3:67:751:750#0/1  
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@HWI-EAS443:3:67:761:133#0/1  
GCCCCGATTGATGCCAGGGTCGACTTCGAGTCTGGACGGA  
+HWI-EAS443:3:67:761:133#0/1  
aa`aba\_aa`````a\_a[aaW`\_`¥`\_\_\_\_W`a\_`^¥\_^V  
@HWI-EAS443:3:67:768:1167#0/1  
CACCCAGGAATATTTGAGAATTCATGCCTTGAACAATGG  
+HWI-EAS443:3:67:768:1167#0/1  
abaa^a`]aa``aaa\_[``\_aba`a`¥a`a`[¥aa\_\_a^  
@HWI-EAS443:3:67:76:1515#0/1  
CACCCATAATGTTCTCAAACAAAATGGCAAGACTAGGGAA  
+HWI-EAS443:3:67:76:1515#0/1  
a^aaaa\_RI\_^Z\_a\_a\_\_aa`\_\_\_\_^ZX`\_]\_]Z][Z^X¥[  
@HWI-EAS443:3:67:773:1340#0/1  
CATGGTGTCTAGGGCCCCGATTGATGCCAGGGTCGACTTC  
+HWI-EAS443:3:67:773:1340#0/1  
a]]`]WX]b`]]\_```aaaa`aaa^\_\_¥`¥^`VT`Y^^[[`



@HWI-EAS443:3:67:810:1715#0/1  
GTCCTCCATCTGATACTAATAGCCCTACCTTTGATTGGGT  
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aa]XZ`aaa``^aa\_aa`a]`^\_\_\_\_`\_^\_aa\_]PT¥^  
@HWI-EAS443:3:67:861:662#0/1  
AGACAATATACTGGTGGGATGGGCTCCAATCATCCGACGA  
+HWI-EAS443:3:67:861:662#0/1  
\_bbbababbabbaa\_aba\_abaTaaaaa[a[Za\_Ya]Ua¥  
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+HWI-EAS443:3:67:875:1122#0/1  
a`XZP[WLYYW¥V\_[J0]YTY¥^[U¥WW[OPS\_ZX\_]MY  
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+HWI-EAS443:3:67:90:883#0/1  
a]]aaabba\_a][\_a^^ZF¥¥`^W^`UP¥^^\_[Y[Z¥  
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+HWI-EAS443:3:67:929:137#0/1  
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+HWI-EAS443:3:67:943:630#0/1  
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+HWI-EAS443:3:67:952:274#0/1  
a``\_a`a`a\_\_`\_`\_¥`Z\_]¥\_\_`^`a^]¥Y]S\_]¥]RS  
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+HWI-EAS443:3:67:964:789#0/1  
a^Q\_`]a`a]\_a¥aW¥\_N\_¥PY^\_W`]bSKHUY`^TFMS^  
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+HWI-EAS443:3:67:973:796#0/1  
a\_Q^a`bba]abbaa`\_aa\_a```aaa`¥`aV][a[a^^\_  
@HWI-EAS443:3:68:1016:462#0/1  
ATTATGGGTGCCATGCTCAGGATGTTTCTGAACCACTCGG  
+HWI-EAS443:3:68:1016:462#0/1  
aaaaabbb^aaaaaaaa`aa¥`a^`a`aa`\_]\_\_\_\_^``  
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AGAAGATGGTCACGCAAAGAACAATAGGGAAGAAAAACA  
+HWI-EAS443:3:68:1060:261#0/1  
aba`\_aaba\_Gaaba`a\_a\_a``\_a`aaa\_aa`Ya\_a`  
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AATTGAAGAGCCATCTGGGCCGTTGCAGGTCCAAGGTCAT  
+HWI-EAS443:3:68:109:582#0/1  
aa`\_aaa\_]`Za\_\_`]^[^^]\_X]]SS¥^W\_[]Z]ZZQT¥  
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@HWI-EAS443:3:68:1468:725#0/1  
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+HWI-EAS443:3:68:1468:725#0/1  
ab`¥`\_baa\_Z¥X]bba^ab]`abbba^aa\_aa`bbabab  
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GGATTGATGCCAGGGTGCAGTTCGAGTCTGGACGGATCAA  
+HWI-EAS443:3:68:1479:145#0/1  
abaabaa\_``a`aaaWaaa¥\_a\_``\_Q`\_^S^aaWTG^\_  
@HWI-EAS443:3:68:147:187#0/1  
GATGGCTCTTCAATTGTTTCATCAAAGACTACAGATACACA  
+HWI-EAS443:3:68:147:187#0/1  
a`aaa`\_a\_a\_aa\_a¥]\_XZ\_ZH\_\_ZZ\_]\_^U^^Z]]^^`  
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GGGCTCCAATCATCCGACGATTTTGCTCTCATAGTGAATG  
+HWI-EAS443:3:68:1498:470#0/1  
aaba\_aaaaa\_¥^`\_XY\_a`\_aa\_a\_`[a¥`^`^`]]YV  
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GGAGCATTTGCGAAAAGCTTGAACAGTCTGGGCTCCCAGT  
+HWI-EAS443:3:68:1545:1514#0/1  
^]Z]`]]]aaaa`\_a`aaa\_]aaZ\_`\_\_\_\_]¥]RX[H  
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+HWI-EAS443:3:68:1549:1648#0/1  
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AGCTGATTCATTTACTCCAGACACTCCAAAGCTGGGTAGC  
+HWI-EAS443:3:68:1560:668#0/1  
aab`a`aaa`aa]```aa`\_]`a]\_`aW[``\_^a[[]X\_\_]  
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+HWI-EAS443:3:68:1615:1089#0/1  
a`bb]bbbbabba\_^aa^aab`b`abab^`aaa]baaa\_V  
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+HWI-EAS443:3:68:161:1119#0/1  
aaaaaabaabbaaa]aab`a\_aaab\_a`¥QZY[¥\_\_YQ\_U  
@HWI-EAS443:3:68:1631:1692#0/1  
GGTGGGATGGGCTCCAATCATCCGACGATTTTGCTCTCAT  
+HWI-EAS443:3:68:1631:1692#0/1  
a`Waaa\_aaa¥a````a`Xa^\_aa\_¥a\_\_a^Z`\_^¥^[^X  
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CGACTCTACTTTTCTAAAAATTCCAGCGCAAATGCCAT  
+HWI-EAS443:3:68:1680:1213#0/1  
\_bb\_bbabb`aabbVb`abbb`aY[a```a\_^`aa]RUab  
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TTTGTGTGTCTCCCCTATGGCACCTATATGTGTATCTGTA  
+HWI-EAS443:3:68:1727:1421#0/1  
abaa[babaaaYaa`]a\_^^]`^`a`a\_\_S[\_]\_\_[\_]¥]  
@HWI-EAS443:3:68:176:418#0/1  
ATTTGCCAGTTTGGCCTTCTTTTCATTGCCCCCTACTGGG

+HWI-EAS443:3:68:176:418#0/1  
a`aa`abaa]\_aa`aa\_]`aa`a\_\_\_^`a`a[U[ZW\_U¥  
@HWI-EAS443:3:68:176:490#0/1  
ATGGAATATGATGCCGTTGCAACTACACATTCCTGGATTC  
+HWI-EAS443:3:68:176:490#0/1  
a]^MXU\_[`a`a]TVU]¥XZ`YJZ`]^`aaaY^¥Z\_\_`^  
@HWI-EAS443:3:68:181:1183#0/1  
GAGGGAATACAAGCAGGAGTGGACAGATTCTACAGGACCT  
+HWI-EAS443:3:68:181:1183#0/1  
abbb`a`\_baab\_baaaa`\_\_aa]`]WWa\_\_]`\_\_[W\_`V  
@HWI-EAS443:3:68:197:991#0/1  
ATTTGAGTTAAAGAAGCTGTGGGATCAAACCAATCAAAG  
+HWI-EAS443:3:68:197:991#0/1  
]^b^bY\_Y^b\_NSVaa`¥`Zaa\_WZ\_^aa[ZR\_¥ZHU^\_\_  
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+HWI-EAS443:3:68:237:455#0/1  
^`aQJ^]X`ZWQabaS\_U^YTXxa\_PS\_R`XBBBBBBBBB  
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GTAGAATCTGTCCACTCCTGCTTGTATTCCCTCATGGTTT  
+HWI-EAS443:3:68:23:924#0/1  
a^aaZ`aaaa]`aa\_`\_`\_\_`\_a][`\_\_`aa]`]^`RU^^  
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CTGGAGTAAATGAATCAGCTGACATGAGTATTGGAGTAAC  
+HWI-EAS443:3:68:247:1876#0/1  
aa`Z`aU`aa`a`a`^`¥Z`^Y]^`a^W`¥Y`^^[X]WX\_`¥  
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ATTGAAGTACTTCAGGTCAATGCTTGCTAGCATTCTGCT  
+HWI-EAS443:3:68:272:1538#0/1  
a][aX¥]ZY^¥`a``UK[`\_[^aWW[a]`X]\_]`¥¥^`Y  
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CTTCCCTATTGTTCTTTGCGTGACCATCTTCTTGGTCATG  
+HWI-EAS443:3:68:273:1676#0/1  
ab`bb`\_``aa]a`aaa]a^¥\_`a]^`a`\_`\_``[Y`\_\_`  
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AATATGATGCCGTTGCAACTACACATTCCTGGATTCCTCAA  
+HWI-EAS443:3:68:280:521#0/1  
ISZ\_b`W\_^b``QVZ\_R]\_a\_aaa\_Y^a`¥ZaYX`VYV¥U  
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+HWI-EAS443:3:68:33:2045#0/1  
a^W`\_`^^aa^^`[]a¥\_`^Y^]]]^YT`U]^`^ZZXZZZ  
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GTGGAGGCCATGGTGTCTAGGGCCCGGATTGATGCCAGGG  
+HWI-EAS443:3:68:363:1904#0/1  
\_\_\_¥`UU```UX\_FSR^FZ¥^S¥a]¥¥BBBBBBBBBBBBB

@HWI-EAS443:3:68:366:689#0/1  
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+HWI-EAS443:3:68:366:689#0/1  
abaaaa`aa\_b^X^aba^`a^`ab\_aa`\_a\_] [[`^T^aY  
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AGCATTTCGAAAAGCTTGAACAGTCTGGGCTCCCAGTAG  
+HWI-EAS443:3:68:371:1674#0/1  
a`aa`aa\_a\_\_a¥aaa\_\_^`¥`\_\_Ua]YY¥\_¥\_\_¥¥\_V\_¥  
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CATTTCGATCTAAAGACTTCTATGGTGTGGCCAATGCAGT  
+HWI-EAS443:3:68:371:215#0/1  
abaaaba`aaT\_a]\_`aY\_]\_aZZ[\_\_\_\_`V[¥ZW\_]Y^]  
@HWI-EAS443:3:68:395:898#0/1  
AAGAGACAACATGACCAAGAAGATGGTCACGCAAAGAACA  
+HWI-EAS443:3:68:395:898#0/1  
\_Y`abbabbaaaba¥^aaaa\_\_aaY\_^``` [ ]\_\_^]`W  
@HWI-EAS443:3:68:421:365#0/1  
AGCTGATTCATTTACTCCAGACACTCCAAAGCTGGGTAGC  
+HWI-EAS443:3:68:421:365#0/1  
``a`bbbabbab\_aabaa\_ab`ab]aaaa^a`a`W\_`¥  
@HWI-EAS443:3:68:422:234#0/1  
CATGACCAAGAAGATGGTCACGCAAAGAACAATAGGGAAG  
+HWI-EAS443:3:68:422:234#0/1  
] ]XYa`¥`aa\_Y]``\_YaZ`^`^¥\_W¥X^\_¥]\_^ZY]  
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GAACTGCTAGGGAAAAATTTCTCGAATAGATTGCAGCACT  
+HWI-EAS443:3:68:428:1909#0/1  
\_aTab`abb`¥\_bb`b^bbbabaaaZ[a`a`a`baa\_aaa  
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GTTCTTTATCACTGTTACTCCAATACTCATGTCAGCTGAT  
+HWI-EAS443:3:68:505:360#0/1  
a\_babbb^ababaa`aaaa`abaaaaaaaa`]aaa\_\_`\_\_  
@HWI-EAS443:3:68:52:1751#0/1  
GATTGATGCCAGGGTCGACTTCGAGTCTGGACGGATCAAG  
+HWI-EAS443:3:68:52:1751#0/1  
[HX[Za`]baaY[^YaW\_\_Q^]Z]P[`Y¥ZY\_]\_XXV^\_Y  
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CAGCTGATTCATTTACTCCAGACACTCCAAAGCTGGGTAG  
+HWI-EAS443:3:68:566:864#0/1  
abb\_bb`babVbbb[\_baaa\_]bba`aaba\_^[^a^\_Wa`  
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CAACATGATAAACAATGACCTTGGACCTGCAACGGCCCAG  
+HWI-EAS443:3:68:58:128#0/1  
aVaaa[aaV^T`\_Ya\_`\_]`\_\_aQG^\_]^^\_] ]^`^^X^V  
@HWI-EAS443:3:68:610:693#0/1  
GGGCCCGGATTGATGCCAGGGTCGACTTCGAGTCTGGACG  
+HWI-EAS443:3:68:610:693#0/1  
`a`babX¥IQa\_TW\_Y]a\_YXT\_`]a]V`ZZa[Z]]\_\_^T  
@HWI-EAS443:3:68:652:762#0/1  
TGTTGTTCTTTATCACTGTTACTCCAATACTCATGTCAGC

+HWI-EAS443:3:68:652:762#0/1  
ab\_a]aab^aaa\_^S\_X\_L\_\_\_\_\_`^`^`^aaYaWRXU¥W\_  
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CAGAAAAGGGAAAAGTGGACGACAAACACAGAGACTGGTGC  
+HWI-EAS443:3:68:667:1901#0/1  
aa\_[a\_a`a\_\_\_\_aXPZ``a`a`aa``\_a`\_]X\_WWVKHR^  
@HWI-EAS443:3:68:681:1729#0/1  
GTAAGAGACAACATGACCAAGAAGATGGTCACGCAAAGAA  
+HWI-EAS443:3:68:681:1729#0/1  
aaaba`a\_bbaa`\_aaa\_^aaaa\_a`a`]aa]`^^^`\_\_\_\_  
@HWI-EAS443:3:68:68:1243#0/1  
GAAGATTCGAACACAAATACCAGCAGAAATGCTAGCAAGC  
+HWI-EAS443:3:68:68:1243#0/1  
\_`^¥`\_bbbb`[\_`b``T]`^`]`abaa\_X`aaaa¥aaaZ`b  
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GATTCCATTACATCCTTTAAGAAATCTATTAGCCTTCCTG  
+HWI-EAS443:3:68:698:826#0/1  
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@HWI-EAS443:3:68:713:1980#0/1  
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S^b\_RUZ\_bZba\_a¥T[\_a[HX\_a]]^\_b``\_¥UXa\_a]  
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+HWI-EAS443:3:68:816:1071#0/1  
a¥aZZ^aaa\_aaa¥`^a\_\_Yaaa`¥U[¥a\_\_\_\_]`U]]\_\_  
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¥^ba`¥`\_`bba`¥¥a`¥bb`^```bbbaaaa]a[^`Zab  
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a\_bab¥]a\_a`\_a¥\_\_`Q``]`^`W¥\_`^`\_`^`¥^Y`\_`¥^Y^  
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¥\_ZXV]]\_`a¥[XZY¥XNQOX^`ZUYO[a[RL¥ORWUQSY  
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\_AY`baaab^^`H¥`a`T^^[a]Xa%a^\_`¥]a^¥\_^[  
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ab^`baaa`¥``b\_\_ab`\_\_ba`^^`a\_\_^a\_\_\_Y`¥\_]`  
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+HWI-EAS443:3:69:1295:620#0/1  
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+HWI-EAS443:3:69:134:432#0/1  
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+HWI-EAS443:3:69:1414:1478#0/1  
a\_\_\_\_\_aaaa`aa\_\_a\_a`]aaaa\_a`\_]W^U¥\_\_^¥¥¥[U  
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¥W\_WZ^]b^^^b` `[¥][TZQXaaZXZa^^¥\_a]NZ`\_Y  
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+HWI-EAS443:3:69:760:767#0/1  
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+HWI-EAS443:3:69:821:1066#0/1  
a)` `a¥aaba`\_]¥[^aa`]` `a]¥\_ [¥¥\_ZWVX`^\_\_YU  
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+HWI-EAS443:3:6:1380:536#0/1
¥OV]]`¥V^]V]^`Za_^_``_¥T¥¥_X[XPDT]WUBBBB
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aabbbbbbbb_aab_bab_bbbbab`abab]`babaa`bb
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TAGGAGCATTTCGCGAAAAGCTTGAACAGTCTGGGCTCCCA
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a_`aa_aaa]aZa_`¥_¥QZ`¥¥V¥`UU`¥^`WWWsBB
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abb`aaaaabababbbba`aabaaaa`aaaa_aa_^aa`
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`baaba_bba[`aaa`_a`aRZ`^¥`¥_SR^[R^__B
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aaLa_`babab¥a`aa`baba¥Zbbaabb_abbaXa_^`
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+HWI-EAS443:3:6:1484:386#0/1
aa`ba_a`Ua¥aa`a]`a_____`[[W__WaN_ZUuw_V
@HWI-EAS443:3:6:1508:1402#0/1
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+HWI-EAS443:3:6:1508:1402#0/1
a^U]`¥[[U¥^ZY_]T`YZ[X^[V¥U^Y^]^[U_[IT]XB
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+HWI-EAS443:3:6:1514:1286#0/1
a[aa_aX^PaYZ[^P`[Y]a^LV_`[aYMVUXU[XPRBBB
@HWI-EAS443:3:6:1573:1360#0/1
GTCCTCCATCTGATACTAATAGCCCTACCTTTGATTGGGT
+HWI-EAS443:3:6:1573:1360#0/1
aaTT]X[aaXab]aaabb`a_TVQ]^Z_a_a`_¥]`]]
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ababaaa`aT[b_aaaaa_aa_a`__a`Zaa_a^_a_X^
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+HWI-EAS443:3:6:1581:404#0/1
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+HWI-EAS443:3:6:1697:938#0/1
abbab_a_ba_aa¥]aa_`a`a^ZJ¥aa^]]^_aaU^`^_
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+HWI-EAS443:3:6:189:661#0/1
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@HWI-EAS443:3:6:225:626#0/1
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+HWI-EAS443:3:6:225:626#0/1
aa`Zaa`aa]a```_a`_`X^]_____][Z_^_^_]Y_
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+HWI-EAS443:3:6:257:1574#0/1
aa_X]Y]_¥a^^¥TYRa_[¥X`VUa`WSS^_____ZPUX¥
@HWI-EAS443:3:6:331:645#0/1
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+HWI-EAS443:3:6:331:645#0/1
aabaab¥]a]S_aa`a`aaa`a_a_`_a`a_a`^P]Q_R
@HWI-EAS443:3:6:340:1447#0/1
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+HWI-EAS443:3:6:340:1447#0/1
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@HWI-EAS443:3:6:380:1925#0/1
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+HWI-EAS443:3:6:380:1925#0/1
`a_a`aa^a^_aaa]a_```____U¥__^`^]ZU`_]_YB
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+HWI-EAS443:3:6:425:1403#0/1
][`]bbV`_Y¥`¥_^][`Z`[[a`UIZ`[_``^^__``__
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+HWI-EAS443:3:6:444:560#0/1
aa`Pa`abaaab`_aaa`U^_aaab``aa_aa_ba^]_`a
@HWI-EAS443:3:6:446:462#0/1
GAGTAAATGAATCAGCTGACATGAGTATTGGAGTAACAGT
+HWI-EAS443:3:6:446:462#0/1
^`¥F]bbaa`a_a`_[aaa__a_b_a`ba[^aZ__U]`P
@HWI-EAS443:3:6:480:597#0/1
CCGGATTGATGCCAGGGTCGACTTCGAGTCTGGACGGATC
+HWI-EAS443:3:6:480:597#0/1
aabbabbbbababab^baa_a^aa_a`aab`a`ba^^]
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+HWI-EAS443:3:6:506:1244#0/1
a`W¥OVXa`P]P][YMWYSTNX^_a]X^USIM^V_BBBB
@HWI-EAS443:3:6:521:1553#0/1
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+HWI-EAS443:3:6:521:1553#0/1
abbbbaa_abb[aba_baaab`b_b_aababbaa[_^][¥aa
@HWI-EAS443:3:6:533:1524#0/1
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+HWI-EAS443:3:6:533:1524#0/1
aabbbaabaabbbbaaba^aaba`aaaaa`a^abaa`a
@HWI-EAS443:3:6:554:784#0/1
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+HWI-EAS443:3:6:554:784#0/1
a^_¥RWUT^aQa]¥U[aWa]_`Y]Y_N`^`]^R_]^Y^¥Y
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+HWI-EAS443:3:6:574:451#0/1
`____U[`_^Za_]_]Z^`Z^^]^__X^`^`^X]]ZZ^
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+HWI-EAS443:3:6:575:903#0/1
a`^W][¥¥XZ`V^__V____]^ ^^Z]]Z^^Z]XYZ]BB
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a`X`_¥¥]VYPZWVZ`XX¥VYRS[^_]YWL^UWPUY_QMR
@HWI-EAS443:3:6:626:798#0/1
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+HWI-EAS443:3:6:626:798#0/1
abbbbbbbabbababbaabbbbbbbbbbbbaa`b_baa``
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+HWI-EAS443:3:6:638:1144#0/1
aa`aaaaaaaa`aaaaa``_` ``````````]__^a`]Z
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abbb^aa_b`[^]V]a[aa`aaa[SN¥aa[`bU_Z`a`__
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+HWI-EAS443:3:6:665:815#0/1
aa_^_a`__a_[Y^`¥_^ZZ¥¥^ZW_¥^¥^¥^]UZU^W
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+HWI-EAS443:3:6:695:1553#0/1
aa`a`_Y`__[`ZaZa^__^_Z¥_^W_U¥¥W[¥W]WWWXSB
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+HWI-EAS443:3:6:69:1374#0/1
``baaba]abUaaaYS`^`V]a]V^VV^VFWaQPWVS__B
@HWI-EAS443:3:6:758:1163#0/1
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+HWI-EAS443:3:6:758:1163#0/1
a`_VPYaW[ST¥`_a]]_[Z_X¥____]W_W[W¥X^^T]W^
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GAGTGTCTGGAGTAAATGAATCAGCTGACATGAGTATTGG
+HWI-EAS443:3:6:807:1246#0/1
aaaZbabbbb^^^aaa`a^_a_a`^a`a_``a_a¥_aa_a
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+HWI-EAS443:3:6:849:79#0/1
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abba`bbbbbbbabbaabaaab`aaaabaaaab[aaaab
@HWI-EAS443:3:6:896:1823#0/1
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+HWI-EAS443:3:6:896:1823#0/1
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+HWI-EAS443:3:6:905:1209#0/1
abaa^bb`a`baaab]^aT_aRa_a¥Ua`a`¥aa^[a]_^
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+HWI-EAS443:3:6:905:257#0/1
_`¥abaa`^T[`bXab]_abab_a¥VabaXG`b¥_[a¥aa
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+HWI-EAS443:3:6:920:995#0/1
aaa`abaaaaaaaaaaaa`a`_aa^a`_a`aaaa_a¥
@HWI-EAS443:3:6:97:1752#0/1
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+HWI-EAS443:3:6:97:1752#0/1
^^TTWa]^`a^a[[]]S_`[___`¥¥GX__TVa¥I_^FS`Sb
@HWI-EAS443:3:70:101:158#0/1
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+HWI-EAS443:3:70:101:158#0/1
aaaa¥JZbbNZ]XUWN`Z¥[ZY[Q[R___]PHMVSWPX¥UT
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+HWI-EAS443:3:70:1038:1410#0/1
a_abab`^[`XRZTTb¥]X`[a¥a^P[`^`XVSY_U`^YV
@HWI-EAS443:3:70:1039:920#0/1
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+HWI-EAS443:3:70:1039:920#0/1
ab]_Ta¥[`^^^]`__`^¥a_QV]LZW_[__¥QRSR¥_
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+HWI-EAS443:3:70:1042:1095#0/1
[`aZ_`ab_^^^`bb`[`a]^a`^`_`b`aa``^babY^a
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+HWI-EAS443:3:70:1073:1364#0/1
[^SO¥RYa_[XYGUa]`__`a`a]a`_`][Z_^_X¥RZM
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+HWI-EAS443:3:70:1092:1820#0/1
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@HWI-EAS443:3:70:1107:1392#0/1
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+HWI-EAS443:3:70:1107:1392#0/1
a`YY_[^VY¥^YWVOZ`_^BBBBBBBBBBBBBBBBBBBB
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+HWI-EAS443:3:70:1126:84#0/1
_^`_bbbaZ¥^^aa^`````V]_ab[L]_U^JSP`_Y_W
@HWI-EAS443:3:70:114:138#0/1
GGGCTATTAGTATCAGATGGAGGACCAAACCTTATACAATA
+HWI-EAS443:3:70:114:138#0/1
abababaaab_aaa```aaa¥`^^____^_``__^__^_
@HWI-EAS443:3:70:1237:758#0/1
TGAAGTCTAGGGAAAAATTTCTCGAATAGATTGCAGCAC
+HWI-EAS443:3:70:1237:758#0/1
[aSaR][a`¥[N`_]Z_L[a]_a¥____VQ[^VZXTG¥Z
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+HWI-EAS443:3:70:1267:733#0/1
aaX_b`a_¥¥`U`bW`Saa__b^a_]ZYa¥`^W`]aaaaY
@HWI-EAS443:3:70:1324:618#0/1
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+HWI-EAS443:3:70:1324:618#0/1
abbaaaaaaababa]_aabb]a`a]Ya_aaa__aORY`^
@HWI-EAS443:3:70:142:473#0/1
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+HWI-EAS443:3:70:142:473#0/1
a_aa]`Paba¥]a_aabaaX`NSa__a`]aaa[¥a`Z_VY
@HWI-EAS443:3:70:142:638#0/1
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+HWI-EAS443:3:70:142:638#0/1
_babaaab¥^b^WYKaaa_S_[S`__aa_a`]Z`_``]bS
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+HWI-EAS443:3:70:1436:1535#0/1
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@HWI-EAS443:3:70:150:239#0/1
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+HWI-EAS443:3:70:150:239#0/1
Y^a^Zabba]aba`Xa``aa_aa]aaa_`a``Z`P]^^_^
@HWI-EAS443:3:70:1514:704#0/1
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+HWI-EAS443:3:70:1514:704#0/1
^bbb¥bbbbbbbabbbbbbabbab_bbaba_bb`_aa¥aa
@HWI-EAS443:3:70:1570:603#0/1
GTTGATCCCCTAAGTGCAGGTCCTGTAGAATCTGTCC
+HWI-EAS443:3:70:1570:603#0/1
`b]X]b`_U^a_aa_¥`aa[Yaa_]P]a^aW^X_RTTZVR
@HWI-EAS443:3:70:1575:1906#0/1
GCAGGTCCAAGGTCATTGTTTATCATGTTGTTCTTTATCA
+HWI-EAS443:3:70:1575:1906#0/1
ab`_IRabbb^^Xbaba`_abaa]_ab^`b`a`_aa_WZ

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+HWI-EAS443:3:70:1639:28#0/1
ab`ab^`a`aa^a`]]Z`W__`a`[RQZW_T^]`^YW]^`¥Y
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+HWI-EAS443:3:70:1663:198#0/1
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@HWI-EAS443:3:70:1697:909#0/1
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+HWI-EAS443:3:70:1697:909#0/1
`Y`a`b]_T_L_ZV_^T¥Y`^T^W¥¥Y]]a`]P[a`a`a]
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@HWI-EAS443:3:70:1713:837#0/1
GCTGTGGTAATGCCAGCCCATGGTCCAGCCAAAAGCATGG
+HWI-EAS443:3:70:1713:837#0/1
`bba`ba`[``Z^_aaa`[a^^_]aV¥]a`]_N¥a^`
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+HWI-EAS443:3:70:173:1546#0/1
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@HWI-EAS443:3:70:1746:1685#0/1
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`aa]abbb`a]bV`aZabaaa`a`^a_ab`¥[X^`a^`
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+HWI-EAS443:3:70:1782:1287#0/1
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@HWI-EAS443:3:70:18:815#0/1
GCCATGGTGTCTAGGGCCCGATTGATGCCAGGGTCGACT
+HWI-EAS443:3:70:18:815#0/1
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@HWI-EAS443:3:70:20:1158#0/1
ATAGGGAAGAAAAACAAAGACTGAATAAGAGAGGCTATC
+HWI-EAS443:3:70:20:1158#0/1
__V_aW`RUa¥YO_a[S¥aaYaWY[_a^¥__a^X_¥MO
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+HWI-EAS443:3:70:269:2011#0/1
]abb_ba`aab__b`¥^a_baaaaaa_b`^[[`X_``_`[
@HWI-EAS443:3:70:273:1073#0/1
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+HWI-EAS443:3:70:273:1073#0/1
a_^aaaaaaa]^X][`]a`_`V_`X^__^[_`¥W¥Z__]^
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+HWI-EAS443:3:70:27:1243#0/1
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+HWI-EAS443:3:70:31:1160#0/1
`abWbbb`YaT^YaK`Ra^[^aba_aaaa`a_a[MYaa
@HWI-EAS443:3:70:344:934#0/1
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+HWI-EAS443:3:70:344:934#0/1
aa^X]_S[XWXTZ_^_^`a^VZa_aa_¥VR][a_]^Z`
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ACTTTTCCTAAAAATTCCAGCGCAAATGCCATAAGCACC
+HWI-EAS443:3:70:351:358#0/1
`b`]`b`abbbb^aZP`aaba_]`a]Z`a_b][[]]Y
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+HWI-EAS443:3:70:420:704#0/1
a^aaa`_aa`a`aaa`a`a_a]`a__^_a___^__[_
@HWI-EAS443:3:70:434:423#0/1
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+HWI-EAS443:3:70:434:423#0/1
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@HWI-EAS443:3:70:448:518#0/1
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+HWI-EAS443:3:70:448:518#0/1
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@HWI-EAS443:3:70:457:623#0/1
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+HWI-EAS443:3:70:457:623#0/1
aa^aab``````aa`aaZ^`aaZ^`a^U__^¥Y[^`a^_
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+HWI-EAS443:3:70:461:740#0/1
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@HWI-EAS443:3:70:502:1118#0/1
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+HWI-EAS443:3:70:502:1118#0/1
aa^aa^```aaXa`a`a[___``]]X[X]`V_]^^^Y_^
@HWI-EAS443:3:70:570:1182#0/1
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+HWI-EAS443:3:70:570:1182#0/1
aaabaa`aaaa`a`aa_aa`_a_a___]X^`____]_]
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+HWI-EAS443:3:70:577:1071#0/1
aa^_X^]P^]ba`¥`aa`W¥^aY`b`aa]b]a[J]aa
@HWI-EAS443:3:70:580:889#0/1
GGGCTCCCAGTAGGGGCAATGAAAAGAAGGCCAAACTGG
+HWI-EAS443:3:70:580:889#0/1
¥a^`bbbUY¥Z`]¥aaa]aa_P`_aaa]_aa^Xaaa`

@HWI-EAS443:3:70:589:549#0/1
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+HWI-EAS443:3:70:589:549#0/1
aba`a]a`_abM`_aaaXZ^_a]_Z____]_`_]XWWQR[XX
@HWI-EAS443:3:70:601:455#0/1
GAACAATTGAAGAGCCATCTGGGCCGTTGCAGGTCCAAGG
+HWI-EAS443:3:70:601:455#0/1
ab¥¥a`aaaab_``aaaa`a]_aa]a¥_```___Y`XVZa_
@HWI-EAS443:3:70:645:1502#0/1
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+HWI-EAS443:3:70:645:1502#0/1
a_b`ba`ba^baaSbaaa`Z^`^`a^aaXaa`Ra``^a^
@HWI-EAS443:3:70:647:629#0/1
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+HWI-EAS443:3:70:647:629#0/1
a_`a```aaaaZa]aa``]Xa`Zaa]a_aaaaa__[_`_`
@HWI-EAS443:3:70:698:1042#0/1
GGAAAGTGGACGACAAACACAGAGACTGGTGCACCCAGC
+HWI-EAS443:3:70:698:1042#0/1
abab^aSb`ababaaabaaaaa`a^^`Waaa`a_a_^`
@HWI-EAS443:3:70:708:1117#0/1
CAGCTGATTCATTTACTCCAGACACTCCAAAGCTGGGTAG
+HWI-EAS443:3:70:708:1117#0/1
W__QZ]WU`ZSa¥``b]```abaaaaabb^T`a`aa]]a_
@HWI-EAS443:3:70:708:938#0/1
ATTGATGCCAGGGTCGACTTCGAGTCTGGACGGATCAAGA
+HWI-EAS443:3:70:708:938#0/1
^bbb`aabaaaZ`¥`a`aaa`]][_`_]a¥^a`XVVR]``
@HWI-EAS443:3:70:729:30#0/1
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+HWI-EAS443:3:70:729:30#0/1
aYaT`_`a^^a_[^^ZaY_`[Y``S`VZWZT_`TZWW^VM
@HWI-EAS443:3:70:764:799#0/1
GACTAGGGAAAGGGTACATGTTTCGAGAGTAAAAGAATGAA
+HWI-EAS443:3:70:764:799#0/1
aa]b`]^aYb`abb_babbbabbb``bb^bbaababa_aa
@HWI-EAS443:3:70:765:966#0/1
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+HWI-EAS443:3:70:765:966#0/1
¥Z_a``aa¥MXIZ]``¥][W^`aa__^]]aXSWRX¥UNNU
@HWI-EAS443:3:70:767:742#0/1
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+HWI-EAS443:3:70:767:742#0/1
aabbaaaaaaaaa`aaba`aaaa`aa`_`a`aa_`]a_^Z
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GAACAACATGATAACAATGACCTTGGACCTGCAACGGCC
+HWI-EAS443:3:70:784:353#0/1
aaaaabaaabaaaaa`aaa`a`a`_a_`__^`^a`Y`]X^
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+HWI-EAS443:3:70:826:348#0/1
H_bababaaa[bbabbaabbbabbabba`bbbbabaaaab
@HWI-EAS443:3:70:83:1209#0/1
AGCTTGAACAGTCTGGGCTCCCAGTAGGGGCAATGAAAA
+HWI-EAS443:3:70:83:1209#0/1
aab_aaaba^`Za^^Q^a_aaa_`PZ`_`X_`__[_`_^Va
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+HWI-EAS443:3:70:899:173#0/1
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+HWI-EAS443:3:70:911:1018#0/1
aab``bbaa`baa`aaaaY`aaa`^^`aaaaaa_aa`a
@HWI-EAS443:3:70:912:611#0/1
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+HWI-EAS443:3:70:912:611#0/1
aZW[]R[a^Y_W]`aST^YXRXY^MN¥OVUWVMSYBBBB
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+HWI-EAS443:3:70:918:790#0/1
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GATAACAATGACCTTGGACCTGCAACGGCCAGATGGCT
+HWI-EAS443:3:70:923:1811#0/1
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+HWI-EAS443:3:70:951:510#0/1
a``aZLRa^V¥`¥UW[^QR]aS^_`YX_]^_T[``]V`a`Y
@HWI-EAS443:3:70:974:857#0/1
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+HWI-EAS443:3:70:974:857#0/1
`a_ab^XZ¥`_^ab^abbb``]`baaaaUaaZab`M_`^`
@HWI-EAS443:3:70:986:1007#0/1
GCCTCTCTTATTAGTCTTTGTTTTTTCTTCCCTATTGTT
+HWI-EAS443:3:70:986:1007#0/1
a_aaaaaaaWaa`_a`a``aa¥_aaaa^`aa`^a``a`]_
@HWI-EAS443:3:70:999:86#0/1
ATGCCAGGGTCGACTTCGAGTCTGGACGGATCAAGAAAGA
+HWI-EAS443:3:70:999:86#0/1
`_X_`¥^^`^abaa_SU]]a^a```¥X``VHY_¥]V`_`_
@HWI-EAS443:3:71:1015:980#0/1
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+HWI-EAS443:3:71:1015:980#0/1
ab``abbb`bbaaaaa`aa_aa`aaaaaa_a_aa]_a``a
@HWI-EAS443:3:71:107:1986#0/1
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+HWI-EAS443:3:71:107:1986#0/1
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+HWI-EAS443:3:71:1104:461#0/1
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@HWI-EAS443:3:71:1107:449#0/1
GTGGGATCAAACCCAATCAAAGGTAGGGCTATTAGTATCA
+HWI-EAS443:3:71:1107:449#0/1
aW]`_aaaaaa`^_aZ``a__`W_a]^_aa`_a_Z__¥_
@HWI-EAS443:3:71:111:1625#0/1
CCTCCATCTGATACTAATAGCCCTACCTTTGATTGGGTTT
+HWI-EAS443:3:71:111:1625#0/1
aa_bbbababba`b_¥¥aa`aaaa]`b_`aa^aa[___Z_[
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CACTAACTTGCAGGTCCTGTAGAATCTGTCCACTCCTGCT
+HWI-EAS443:3:71:1123:1447#0/1
aaab_bbbbaab_a^bbbaabaaaaaba` `X`a][][Z`
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GATTCTTCAAGGAAAGCCATAGCCTCTAGAACACAGTCTG
+HWI-EAS443:3:71:1152:371#0/1
a[_Z` `]a`a_[_YZ_]¥]` `a]Y^a^[_`_Z[¥^¥ULY[
@HWI-EAS443:3:71:1189:668#0/1
ACAGTCTGGGCTCCCAGTAGGGGCAATGAAAAGAAGGCC
+HWI-EAS443:3:71:1189:668#0/1
aa[[_^`W]V_aa^_]Z` `^_W^a`T^]]S^_W__V`_P¥
@HWI-EAS443:3:71:119:660#0/1
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+HWI-EAS443:3:71:119:660#0/1
aT[_T^`a^a__aa`]]`^aX^__VZ_^Y^¥Z]X]WWY
@HWI-EAS443:3:71:1330:1904#0/1
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+HWI-EAS443:3:71:1330:1904#0/1
aa¥¥abb`]Z`_aaaa__SYXa_`aY^O__]`aZ]Y^ZYP
@HWI-EAS443:3:71:1345:1297#0/1
GATTGATGCCAGGTCGACTTCGAGTCTGGACGGATCAAG
+HWI-EAS443:3:71:1345:1297#0/1
¥THZb[_^_Ubb[YYO_]`^a^YV[NUUaXY[Wab_Wa^WQ[
@HWI-EAS443:3:71:1358:1667#0/1
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+HWI-EAS443:3:71:1358:1667#0/1
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@HWI-EAS443:3:71:1359:620#0/1
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+HWI-EAS443:3:71:1359:620#0/1
`]b_ab_bbabbabbbababbSb_a^baababaaaaa_aH
@HWI-EAS443:3:71:1400:731#0/1
CTTGGGAGTCTCGATACTGAATCTTGGACAAAAGAAATAC
+HWI-EAS443:3:71:1400:731#0/1
``_Z`Y[aa¥abX_¥bb]RYbabX¥_[^bbabba^bb_G
@HWI-EAS443:3:71:1466:957#0/1
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@HWI-EAS443:3:71:274:1242#0/1
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+HWI-EAS443:3:71:274:1242#0/1
abba_aaa_`TaaaaT_a^aa`a_a`^a_^^aaa`_a¥_
@HWI-EAS443:3:71:278:67#0/1
GAGATAACAACCCACTTTCAAAGAAAAAGGAGAGTAAGAG
+HWI-EAS443:3:71:278:67#0/1
^¥`aa^b^a^^^a_aaa^`^Z]H]__aaa_]X`X¥G]^X
@HWI-EAS443:3:71:40:175#0/1
ATCCTGAGCATGGCACCCATAATGTTCTCAAACAAAATGG
+HWI-EAS443:3:71:40:175#0/1
Zaaaa`aaaa`_]`_^_]_]¥[_^__^^^]^__XR_]]]]
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+HWI-EAS443:3:71:411:1619#0/1
^L[aabb]aaab`aaaa`^````a`a__aa]`_Xaa__^
@HWI-EAS443:3:71:424:915#0/1
CAACTACACATTCTGGATTCCCAAGAGGAATCGTTCTAT
+HWI-EAS443:3:71:424:915#0/1
`V`a`[aab]aaaa`a_a[_a`b`P[[RV^___`^^a]_`
@HWI-EAS443:3:71:448:325#0/1
AGCCCTTCTTTTTAACTTGCCTCTCTCTGCATCTTTGGTC
+HWI-EAS443:3:71:448:325#0/1
aaba_aaaaaa`_a_^`W]````]_a``__^_]_`^Y]
@HWI-EAS443:3:71:448:479#0/1
GCAACGGCCCAGATGGCTCTTCAATTGTTTCATCAAAGACT
+HWI-EAS443:3:71:448:479#0/1
aaUaaaab`_K]W_¥¥¥`_`__W^_aY]__^`_Y^]]X^
@HWI-EAS443:3:71:449:949#0/1
GGCCCAGATGGCTCTTCAATTGTTTCATCAAAGACTACAGA
+HWI-EAS443:3:71:449:949#0/1
ab`]aa]Wa_U_¥`]aaPO_]^^RZ]a]XNU]]`_]XZ[^
@HWI-EAS443:3:71:455:26#0/1
GGCAATGAAAAGAAGGCCAAACTGGCAAATGTTGTGAGAA
+HWI-EAS443:3:71:455:26#0/1
aa^`aa_WX¥`b^T_a^_a]X[[^`X¥__aW[^X`^`_¥
@HWI-EAS443:3:71:580:129#0/1
AGAAATCCAACCGTCTCCTATATGAACTGCTAGGGAAA
+HWI-EAS443:3:71:580:129#0/1
a`a¥Va`a_aa_]_`[]]Y[ZU_]`^`^[^_YQY_]U__]
@HWI-EAS443:3:71:602:148#0/1
GAGCTAATGGATGATGATTATCGGGGAAGACTTTGTAATC
+HWI-EAS443:3:71:602:148#0/1
a^a_a_]aba_aaa`_aa_[_Za`__Z[_]]]X_]U[_]T
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GTAGAATCTGTCCACTCCTGCTTGTATTCCCTCATGGTTT
+HWI-EAS443:3:71:628:1099#0/1
a_baab`bba[baaa^`aa`a`a^_a__baaYaYa^_^__
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+HWI-EAS443:3:71:645:1637#0/1
_`aaa^`VYZ`¥a`a¥a^`^¥¥XZZ¥aZ`Z¥^R¥R¥T
@HWI-EAS443:3:71:657:538#0/1
ATTTGTGTTCGAATCTTCATTCTTTTACTCTCGAACATGT
+HWI-EAS443:3:71:657:538#0/1
aabaaSbaaabaa`aaaaa`aaaaa`aaa``Ya^``_U
@HWI-EAS443:3:71:682:1695#0/1
CTGAAGTACTTCAATGAATCAACAAAGAAGAAAATTGAGA
+HWI-EAS443:3:71:682:1695#0/1
_NWV]SFZa`^]ZaY^^S¥`^`__`RRT]¥¥Z¥^W¥]_¥
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GCCATGCTCAGGATGTTTCTGAACCACTCGGGTTGATTTC
+HWI-EAS443:3:71:702:228#0/1
a`^_YY__a[aP^`TY^Xaaa`UHVPVSQ^]OVaXa^NK
@HWI-EAS443:3:71:725:988#0/1
GATGGGCTCCAATCATCCGACGATTTTGCTCTCATAGTGA
+HWI-EAS443:3:71:725:988#0/1
__X_ZZ[Z_] [Z] `Z] `^Z`^VX[__aaY]¥]SYa_P]Y
@HWI-EAS443:3:71:75:1378#0/1
AATTGAAGAGCCATCTGGGCCGTTGCAGGTCCAAGGTCAT
+HWI-EAS443:3:71:75:1378#0/1
`^aaaZb¥][^`aaa_^][^`_VZ] `¥SYWa__`^ZUQ[^
@HWI-EAS443:3:71:76:412#0/1
AAGGGATTGAGGGATTACAAAGTCTTCCCCGATAATCAT
+HWI-EAS443:3:71:76:412#0/1
a`]]aa`_aa]] `¥`¥0[`__`U[^^^`¥`__YYWT¥
@HWI-EAS443:3:71:856:1005#0/1
GGCTCCAATCATCCGACGATTTTGCTCTCATAGTGAATGC
+HWI-EAS443:3:71:856:1005#0/1
aaa]aaa``¥a^aa_a_aaaaa]]]¥`_a``_ZY]aa__
@HWI-EAS443:3:71:896:1962#0/1
AATCAGCTGACATGAGTATTGGAGTAACAGTGATAAAGAA
+HWI-EAS443:3:71:896:1962#0/1
a^_aaab``baaa``aYaa_¥]a`Yaa_a`X`¥_aa]0]
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+HWI-EAS443:3:71:908:481#0/1
a_abaaaa^`¥]_T_a[]ZY^]a`_R¥`_]aZabba`aaa
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+HWI-EAS443:3:71:918:1517#0/1
a¥`X_aa[Z^ZH[U¥[____[]_OQNT`a[HX¥`Z]``]WX
@HWI-EAS443:3:71:93:1029#0/1
AGAATTCCCCTTTGGCTTGTGTTGAGAATAGAACGATTCC
+HWI-EAS443:3:71:93:1029#0/1
a`Y`a_ba``a`__]`_a_]_Y__^[U][WW`Y[[]WYYU
@HWI-EAS443:3:71:969:373#0/1
CACTATGAGAGCAAAATCGTCGGATGATTGGAGCCCATCC
+HWI-EAS443:3:71:969:373#0/1
ab¥a¥_VX`WSX_a^N^b]ZZ`ZX]b]]H]_[b]XI]`_V

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+HWI-EAS443:3:71:978:1669#0/1
abb_UabbY_]^Ia_aa``^_RH`b^`aa__a]^Gaa^Q_
@HWI-EAS443:3:71:998:1569#0/1
CAATTGAAGAGCCATCTGGGCCGTTGCAGGTCCAAGGTCA
+HWI-EAS443:3:71:998:1569#0/1
aaabaabbaa^aaaaa_aaa``^_aa`a[Z^aa`__VW^
@HWI-EAS443:3:72:1001:1180#0/1
CAGTGCTCTTATTAGATAGCCTCTCTTATTCACTTTGT
+HWI-EAS443:3:72:1001:1180#0/1
aa_]_a`_a`[a`^a^___¥[___^^[_^_^¥[]`__[
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TAAAAATTCCAGCGCAAATGCCATAAGCACCATTTCCC
+HWI-EAS443:3:72:1031:1140#0/1
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@HWI-EAS443:3:72:1043:411#0/1
TTGAGGATGAACAGATGTACCAGAAGTGCTGCAATCTATT
+HWI-EAS443:3:72:1043:411#0/1
_baaab_aa[^aYZZa`T`^]a___^a`ba]W_^aaa^
@HWI-EAS443:3:72:1046:612#0/1
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+HWI-EAS443:3:72:1046:612#0/1
abaabaaaa`¥]aa[_a_a___V]a]V]ZRY]a^a_Y_^`
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CAGATCTTCATGATCTCAGAGAACTCTTCTTTCTTGATCC
+HWI-EAS443:3:72:1055:342#0/1
]_bba`¥aa`U[Y]a_aab^TaaaI_OYbaaaaaaUZGX
@HWI-EAS443:3:72:1109:964#0/1
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+HWI-EAS443:3:72:1109:964#0/1
aa¥S_`bbbabb^_a`b`aa^aaa`a_aa`a`aaaa^]
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+HWI-EAS443:3:72:1154:1919#0/1
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GGTGTGTTCTGTTTACTGTGTCCATGGTGTATCCTGTTCC
+HWI-EAS443:3:72:1166:1001#0/1
_babaabbabaabab_bb`aaa`aaaa_a`aaa`aa`___
@HWI-EAS443:3:72:117:1283#0/1
GAGACAACATGACCAAGAAGATGGTCACGCAAAGAACAAT
+HWI-EAS443:3:72:117:1283#0/1
aa_babbbV¥a`a^^a`aaaa^Raaa_b]Q^`[_WY_
@HWI-EAS443:3:72:117:322#0/1
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+HWI-EAS443:3:72:117:322#0/1
a_bbba`TbSb_XO_]`YWPTPP___TXN[[]FVOQNYU
@HWI-EAS443:3:72:1182:1965#0/1
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+HWI-EAS443:3:72:1182:1965#0/1
_bbb[babbbabXY_abaIUb_`QWVZGW^b`aaZaQU[b
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+HWI-EAS443:3:72:1188:109#0/1
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+HWI-EAS443:3:72:1189:1620#0/1
]aYbbbbbb`ab¥`_^_baaaaa_aaa`aaaVW_a`aaaa
@HWI-EAS443:3:72:1195:1431#0/1
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+HWI-EAS443:3:72:1195:1431#0/1
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+HWI-EAS443:3:72:1273:67#0/1
a[X^a`X¥V¥aaaa`X`aaaaTq]Pa[`a_ab`Wa¥a`a
@HWI-EAS443:3:72:1280:173#0/1
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+HWI-EAS443:3:72:1280:173#0/1
a`a][^]_a][[YZXY[_PS[^ZZ^]¥SWY¥¥]RXXUYUX
@HWI-EAS443:3:72:1294:253#0/1
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+HWI-EAS443:3:72:1294:253#0/1
abab`abbaab`abbbabYaa]aaaXa`T^]]aZa`b]aZ
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+HWI-EAS443:3:72:1300:553#0/1
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@HWI-EAS443:3:72:1303:935#0/1
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+HWI-EAS443:3:72:1303:935#0/1
`R¥¥¥IP]]UW]`¥`_YTZY_ZY][LLQY]]NU[Y]VU
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+HWI-EAS443:3:72:1355:605#0/1
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@HWI-EAS443:3:72:1399:534#0/1
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+HWI-EAS443:3:72:1399:534#0/1
aZR^^`aa`a`aaUa_a¥T[____^`Z_`¥_U_`__[-]_
@HWI-EAS443:3:72:1427:1626#0/1
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+HWI-EAS443:3:72:1427:1626#0/1
`aab_`b`bbbabab_abaWbbb__^bbbaababbbaba

@HWI-EAS443:3:72:1461:238#0/1
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+HWI-EAS443:3:72:1461:238#0/1
`aaaababWaa]a__`a^a^a_X^¥_``a___`VV_]_
@HWI-EAS443:3:72:1469:500#0/1
AACAGATCTTCATGATCTCAGAGAACTCTTCTTTCTTGAT
+HWI-EAS443:3:72:1469:500#0/1
^IM_````a`UY]a`^¥P`]W_[[G`Y`a`aaaa``]X^
@HWI-EAS443:3:72:1520:1017#0/1
GGTGGGATGGGCTCCAATCATCCGACGATTTTGCTCTCAT
+HWI-EAS443:3:72:1520:1017#0/1
aa¥aabZaaaa_a___aa^`a^^a^^_¥``a¥`Q`¥^¥^Y
@HWI-EAS443:3:72:1524:460#0/1
GGCACCTATATGTGTATCTGTAGTCTTTGATGAACAATTG
+HWI-EAS443:3:72:1524:460#0/1
`bb]Ybb`bbbb¥b`aaabb_abaaaab¥baaba^aaaa`
@HWI-EAS443:3:72:154:971#0/1
GAACATTATGGGTGCCATGCTCAGGATGTTTCTGAACCAC
+HWI-EAS443:3:72:154:971#0/1
`XI^`_Z___X[U^a_]¥Z^[\`a`_PYTXX_^YWF¥ZVV[
@HWI-EAS443:3:72:1559:1211#0/1
AATACACCAAGACAATATACTGGTGGGATGGGCTCCAATC
+HWI-EAS443:3:72:1559:1211#0/1
R`a`bbaab`^`bababaRaaa^baa`]_aa_]R[]aY
@HWI-EAS443:3:72:1598:1060#0/1
TCATTGATTCCATTACATCCTTTAAGAAATCTATTAGCCT
+HWI-EAS443:3:72:1598:1060#0/1
aa`aaaaaa_`bba_aa]aaaa_a¥¥_`aaa```Z`]a
@HWI-EAS443:3:72:1612:1800#0/1
TTCTTTTTAACTTGCCTCTCTCTGCATCTTTGGTCATCGT
+HWI-EAS443:3:72:1612:1800#0/1
a```abb`aaa_aa¥^aa`¥`aaa``a_a_aa_¥_]__`^
@HWI-EAS443:3:72:1617:254#0/1
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+HWI-EAS443:3:72:1617:254#0/1
a`aaa_abaPaaa^][ab^`_^_a]__XX]_U_X_UWT^_
@HWI-EAS443:3:72:1669:1838#0/1
AATCAACCCGAGTGGTTCAGAAACATCCTGAGCATGGCAC
+HWI-EAS443:3:72:1669:1838#0/1
Z_bbbbaa_aaa^aa^__````a`a^ZY^`_``_^^^]_W
@HWI-EAS443:3:72:1693:222#0/1
CAGTAAACAGAACACACCAATACTCAGAAAAGGGAAAGTG
+HWI-EAS443:3:72:1693:222#0/1
aabaa`a_a``¥SaaaY__ab_``S`_¥`_U¥_Z^a_a^`
@HWI-EAS443:3:72:1698:883#0/1
ATTGAAGTACTTCAGGTCAATGCTTGCTAGCATTCTGCT
+HWI-EAS443:3:72:1698:883#0/1
abVaSY[abbba`a^V[bbaaaaaaaaaba^a``aaa``]
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CAGATACACATATAGGTGCCATAGGGGAGACACACAAATT

+HWI-EAS443:3:72:1722:177#0/1
aa^aa`abaabbbb`_aaY¥]aa^_a_a[[a`a___`a`
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GATTCCCCTAACTTGCAGGTCCTGTAGAATCTGTCCACT
+HWI-EAS443:3:72:1753:147#0/1
a`b`aab_aa_[`a_aVaY__aa__a^_aXa`_WT_T^
@HWI-EAS443:3:72:1759:1663#0/1
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+HWI-EAS443:3:72:1759:1663#0/1
ab[`[ba`[]¥`SXZW^aTaJX¥aa_[R]_`_`[a]__]¥
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GAGTAAATGAATCAGCTGACATGAGTATTGGAGTAACAGT
+HWI-EAS443:3:72:1766:1498#0/1
PRX`_aaaa¥b`baYbbab^b]aa_bbbaaaa`^bab_¥X
@HWI-EAS443:3:72:1770:123#0/1
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+HWI-EAS443:3:72:1770:123#0/1
a`_aa`aaa][YSXMU`Ra]_Xa[a`a`b_¥`]LOXMI_
@HWI-EAS443:3:72:1771:425#0/1
CGGATCAAGAAAGAAGAGTTCTCTGAGATCATGAAGATCT
+HWI-EAS443:3:72:1771:425#0/1
abaaaaabbbbbbabaabb_a`abaaaa`aaabaaa`_`
@HWI-EAS443:3:72:1772:1138#0/1
GGTAATGCCAGCCCATGGTCCAGCCAAAAGCATGGAATAT
+HWI-EAS443:3:72:1772:1138#0/1
a_N`aa]]`a`]]][_[R[_^^_V¥`_Z`XT^¥QLV¥^
@HWI-EAS443:3:72:1791:227#0/1
CCTCCATCTGATACTAATAGCCCTACCTTTGATTGGGTTT
+HWI-EAS443:3:72:1791:227#0/1
`a`¥__^]]`^¥_]ZX[¥[¥YQVYUZ][XLJWROTU
@HWI-EAS443:3:72:191:1059#0/1
CTGCAACGGCCAGATGGCTCTTCAATTGTTTCATCAAAGA
+HWI-EAS443:3:72:191:1059#0/1
`Sab`Wa`^aa[^`]¥[P^`_[Z`]¥¥¥TK¥a¥[]¥¥YZZ
@HWI-EAS443:3:72:210:513#0/1
CCCGGATTGATGCCAGGGTCGACTTCGAGTCTGGACGGAT
+HWI-EAS443:3:72:210:513#0/1
a`_aabaa`[ab`^`[a`¥a^]]]aa`X`]aaa`][[]]TV
@HWI-EAS443:3:72:242:1786#0/1
CTTGGGAGTCTCGATACTGAATCTTGGACAAAAGAAATAC
+HWI-EAS443:3:72:242:1786#0/1
aVY`VNJZ[bYMZ_¥`_XQ¥QZ`]X_Z^^^_[^¥[^X__
@HWI-EAS443:3:72:266:81#0/1
AATACTCAGAAAAGGGAAAGTGGACGACAAACACAGAGAC
+HWI-EAS443:3:72:266:81#0/1
a`a__aaaa¥aYaaaa`Z`Saa`_a`_`a]_^¥`aW]]U
@HWI-EAS443:3:72:267:404#0/1
CACTGACATTAATACGATGACCAAAGATGCAGAGAGAGG
+HWI-EAS443:3:72:267:404#0/1
a_bba]`S^aaaaabaab`^aaaaaaaaaaaaaaaa`a`a^

@HWI-EAS443:3:72:274:137#0/1
CTGCTTAAAATGGGAGCTAATGGATGATGATTATCGGGGA
+HWI-EAS443:3:72:274:137#0/1
a```aa¥`¥`aaa]aaa````¥abbaaaa_aa_¥Ua``^
@HWI-EAS443:3:72:274:2002#0/1
TGCATTCACTATGAGAGCAAATCGTCGGATGATTGGAGC
+HWI-EAS443:3:72:274:2002#0/1
¥___aa`¥```aXa]b^b``¥`_aZHa_S]PX[GWWU]a_
@HWI-EAS443:3:72:286:1295#0/1
GGGAGCTAATGGATGATGATTATCGGGGAAGACTTTGTAA
+HWI-EAS443:3:72:286:1295#0/1
aaaaabbZZbaab`bbabbbbabbbaabaabaaaaa^aa
@HWI-EAS443:3:72:328:304#0/1
AGATAAACTAACTCAAGGTCGCCAGACTTATGATTGGACA
+HWI-EAS443:3:72:328:304#0/1
aaaa`[^`^aaa`aaaaZ_a__`〕``_`Ta____YU]`¥_
@HWI-EAS443:3:72:33:1921#0/1
CCAGGGTCGACTTCGAGTCTGGACGGATCAAGAAAGAAGA
+HWI-EAS443:3:72:33:1921#0/1
aa][WZV`Z_`YWZSUUW[TRN[_UV¥USWVSRY[V[[VZ
@HWI-EAS443:3:72:341:1717#0/1
AAAAATTCCAGCGCAAATGCCATAAGCACCACATTCCCT
+HWI-EAS443:3:72:341:1717#0/1
aa`ZQ_R]^___Ya`]Z¥SU)`_X[Z¥[[_a]^ZY)`[]¥
@HWI-EAS443:3:72:344:533#0/1
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+HWI-EAS443:3:72:344:533#0/1
0]aa`abba`[[`[¥V`aa[[a[V[^a¥aXQ`]_dWT[^a
@HWI-EAS443:3:72:423:1706#0/1
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+HWI-EAS443:3:72:423:1706#0/1
a``a]a_a_`a]Y^__^`_]a[VUWYWYY_`[_V^^X]Y
@HWI-EAS443:3:72:42:1293#0/1
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+HWI-EAS443:3:72:42:1293#0/1
Zab``Z_baT_b`aa[aaaa^`a^a[]YaY`aab]aaa`
@HWI-EAS443:3:72:430:1728#0/1
CGATACTGAATCTTGGACAAAAGAAATACACCAAGACAAT
+HWI-EAS443:3:72:430:1728#0/1
aaa_Za`Ka`ab`a[[R__ZVT``a_]abaa^^`__a`^
@HWI-EAS443:3:72:480:1405#0/1
GGCTATTAGTATCAGATGGAGGACCAAACCTTATAACAATAT
+HWI-EAS443:3:72:480:1405#0/1
`bbbbbb]¥Y_baba]`a_ZQ[¥Y_b_]``baaabaaaa`
@HWI-EAS443:3:72:484:1295#0/1
AGCTGATTCATTTACTCCAGACACTCCAAAGCTGGGTAGC
+HWI-EAS443:3:72:484:1295#0/1
aa`_W``b__b`aaaabaa`aaa``aa¥Va[^`ZZ`U_R_
@HWI-EAS443:3:72:486:1782#0/1
GGCTTGTTGAGAATAGAACGATTCTCTTGGGAATCCA

+HWI-EAS443:3:72:486:1782#0/1
aa`¥YV_]a^^^aa^U^b_VTY^`]¥_^¥]Z^_WY` [`
@HWI-EAS443:3:72:492:625#0/1
TGGACCTGCAACGGCCAGATGGCTCTTCAATTGTTTCATC
+HWI-EAS443:3:72:492:625#0/1
abaa_aa`aa`aa`aa`U`_` [T[_`aa_WR` ``¥` ___`
@HWI-EAS443:3:72:497:595#0/1
GTGGGATGGGCTCCAATCATCCGACGATTTTGCTCTCATA
+HWI-EAS443:3:72:497:595#0/1
aXaa`aa_]__`_]SG¥`___aZZ__^^_¥_¥US]W
@HWI-EAS443:3:72:509:834#0/1
CAGGTCCTGTAGAATCTGTCCACTCCTGCTTGTATTCCCT
+HWI-EAS443:3:72:509:834#0/1
abab_aabaaa_]aaaaY`_`]_]_a`X`aa````_```a]
@HWI-EAS443:3:72:517:17#0/1
GCATTTGCGAAAAGCTTGAACAGTCTGGGCTCCCAGTAGG
+HWI-EAS443:3:72:517:17#0/1
a`a`a`a_[IX]`_X^`_¥^¥^_W¥¥_WWZUZ^YY¥VUW^
@HWI-EAS443:3:72:531:176#0/1
GGGATGGGCTCCAATCATCCGACGATTTTGCTCTCATAGT
+HWI-EAS443:3:72:531:176#0/1
aaa```aa`aa`_`^`^W`]_____]__^_]Y^^^^]Y
@HWI-EAS443:3:72:536:1441#0/1
GTTCTGTTTACTGTGTCCATGGTGTATCCTGTTCCCTGTTC
+HWI-EAS443:3:72:536:1441#0/1
a_abaa`_abaaa]`_aa`a`_Xa`a`a`_]_a____^____
@HWI-EAS443:3:72:54:409#0/1
GTCCAAGATTGAGTATCGAGACTCCCAAGACCGTACTTAG
+HWI-EAS443:3:72:54:409#0/1
aZa_XZ``^a```W````____^[[^_XZ^UZ^YQYS[]]ZU
@HWI-EAS443:3:72:564:178#0/1
TTTTGCTCTCATAGTGAATGCACCAAACCATGAGGGAATA
+HWI-EAS443:3:72:564:178#0/1
[¥bTTX]aU[[]]`bY]]abbaa`]]_]Z^a`aa^`]UZ`
@HWI-EAS443:3:72:56:1068#0/1
ACCCGAGTGGTTCAGAAACATCCTGAGCATGGCACCCATA
+HWI-EAS443:3:72:56:1068#0/1
aaaaY`]Y]aSU`¥¥]U[ZV]_UZU[YU[WS[_[[¥^]]
@HWI-EAS443:3:72:603:2036#0/1
TGGTCCTCCATCTGATACTAATAGCCCTACCTTTGATTGG
+HWI-EAS443:3:72:603:2036#0/1
`_FH[_abbbaaXaaQ`¥aa`_RZ`TTV[[[[_^_VTVR
@HWI-EAS443:3:72:607:1304#0/1
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+HWI-EAS443:3:72:607:1304#0/1
]_¥¥¥aY_X`VaW¥_^^Y`PU¥^^_Sba^VXZWVa]P[T
@HWI-EAS443:3:72:615:2006#0/1
CCTTTCCCTAGTCTTGCCATTTTGTGTTGAGAACATTATGG
+HWI-EAS443:3:72:615:2006#0/1
abaabbbba[_`ba_]`aaaa_aZ``````aaa```_a`ZY

@HWI-EAS443:3:72:656:1559#0/1
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+HWI-EAS443:3:72:656:1559#0/1
abbaa_a¥Z[Ubbba^[aaaa`aa_aaYza`aY]^Z`a_a
@HWI-EAS443:3:72:809:101#0/1
CAGGAATGTGTAGTTGCAACGGCATCATATCCATGCTTT
+HWI-EAS443:3:72:809:101#0/1
abaaa`baZa]babbbba_abbYbbabbbbaZ`a_X`a`
@HWI-EAS443:3:72:873:1247#0/1
GAGAGGCTATCTAATAAGAGCACTGACATTAATACGATG
+HWI-EAS443:3:72:873:1247#0/1
abba_[aaa`a`[]aa`U¥]S__PZX__`_`a^^_]UZX
@HWI-EAS443:3:72:885:1584#0/1
ATGGGCTCCAATCATCCGACGATTTTGCTCTCATAGTGAA
+HWI-EAS443:3:72:885:1584#0/1
`a`Ya`¥`^V¥`a_aaaaaV``_a_aa`aa`_`_]^[^_
@HWI-EAS443:3:72:916:1452#0/1
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+HWI-EAS443:3:72:916:1452#0/1
`a`a^`baZ^aTab]]aa`_ZOM^U_a_aV[a`QUQ¥_
@HWI-EAS443:3:72:937:1047#0/1
CCAGGAATGTGTAGTTGCAACGGCATCATATCCATGCTT
+HWI-EAS443:3:72:937:1047#0/1
ababb`abbabaabaabb``aaa`aa`aaaaaaaa`a`a`
@HWI-EAS443:3:72:95:1230#0/1
GAACAACATGATAAACAATGACCTTGGACCTGCAACGGCC
+HWI-EAS443:3:72:95:1230#0/1
ZQ¥_aK¥WX_^¥^]abYZV``X`U[ab¥]``_a][`
@HWI-EAS443:3:72:965:389#0/1
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+HWI-EAS443:3:72:965:389#0/1
]^bb^a`_bbbaaba`[bbabbaba`babbbbaa]aa]abb
@HWI-EAS443:3:72:96:1379#0/1
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+HWI-EAS443:3:72:96:1379#0/1
^_baabaaaaababba`Xb`¥a`bbbbb`aa``aaa^aa
@HWI-EAS443:3:72:987:647#0/1
GAAATTTTTCCCTAGCAGTTCATATAGGAGACCGGTTGGA
+HWI-EAS443:3:72:987:647#0/1
a_a`aa^[U¥¥Z]_X[T^U^_^_]`^`ZV_WWYZ]X]]ZZ
@HWI-EAS443:3:73:1019:753#0/1
CAGCTGATTCATTTACTCCAGACTCCAAAGCTGGGTAG
+HWI-EAS443:3:73:1019:753#0/1
aaaabaaaba_baaa`ba_aa``a[a^_a`a____^aX__
@HWI-EAS443:3:73:1023:1421#0/1
CGAGTCTGGACGGATCAAGAAAGAAGAGTTCTCTGAGATC
+HWI-EAS443:3:73:1023:1421#0/1
aaZb^babb``aaa_aabaaabaaa_ba___baaa`aaaa
@HWI-EAS443:3:73:1037:1111#0/1
GAGAATAGAACGATTCCTCTTGGGAATCCAGGAATGTGTA

+HWI-EAS443:3:73:1037:1111#0/1
]_]S``WZbXT¥_YLP[^`P`]]YZ¥]ZPNGL`]X^OX
@HWI-EAS443:3:73:1049:564#0/1
CCCGGATTGATGCCAGGGTCGACTTCGAGTCTGGACGGAT
+HWI-EAS443:3:73:1049:564#0/1
ababbbbbbbabbaabbb]aaaaaabaa_abbaaYaaa`
@HWI-EAS443:3:73:104:1155#0/1
CTCAGAAAAGGGAAAGTGGACGACAAACACAGAGACTGGT
+HWI-EAS443:3:73:104:1155#0/1
aT`W_PWPP[^[UZW`S_V^_ZSTW_Z^^]¥U¥¥XWWWWU
@HWI-EAS443:3:73:1053:475#0/1
TGGGTTGTTATCTCTATTTCTCTTTGTTTCATTGATTCCA
+HWI-EAS443:3:73:1053:475#0/1
a_ZZ]`¥WYH[Y_Y]¥Z`¥TR[YT^_aUYZ[_`a[_]VY
@HWI-EAS443:3:73:1059:1297#0/1
CTCCAATCATCCGACGATTTTGCTCTCATAGTGAATGCAC
+HWI-EAS443:3:73:1059:1297#0/1
aa`aa`aaaa``a_`^_aaa`a`aaa`aa`¥`_^a`^`Z
@HWI-EAS443:3:73:1063:1646#0/1
AAGAGGAATCGTTCTATTCTCAACACAAGCCAAAGGGGAA
+HWI-EAS443:3:73:1063:1646#0/1
`baaa]¥`_`bYU]TMRV`YI]GYV[a_^]VT_X]¥¥ZW_
@HWI-EAS443:3:73:1076:626#0/1
CTAAAGACTTCTATGGTGTGGCCAATGCAGTTGCTGCCG
+HWI-EAS443:3:73:1076:626#0/1
[ab``_ZX``aba``VXUZa_a_a¥RPNXZSZ]Y]_T[b
@HWI-EAS443:3:73:107:1153#0/1
AAAATTTCTCGAATAGATTGCAGCACTTCTGGTACATCTG
+HWI-EAS443:3:73:107:1153#0/1
`U_J]`aa__PY[^R[^¥¥_^[Z^Z^]^YZ^VX^_][][]
@HWI-EAS443:3:73:1098:1062#0/1
AAAAATTCAGCGCAAATGCCATAAGCACACATTCCCT
+HWI-EAS443:3:73:1098:1062#0/1
abbaV[abaaaaaaaa]_a`aaa`_aa__`a`a^_`V`
@HWI-EAS443:3:73:111:1233#0/1
GACGGATCAAGAAAGAAGAGTTCTCTGAGATCATGAAGAT
+HWI-EAS443:3:73:111:1233#0/1
abab^a^bbaaaa````_`a^ab_ba____]a`a`aX``a_
@HWI-EAS443:3:73:1237:1518#0/1
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+HWI-EAS443:3:73:1237:1518#0/1
X_SX`baba`a[bXbab¥Ya```ba__aa_aaS][0___a
@HWI-EAS443:3:73:1252:1600#0/1
GAAGAGCCATCTGGGCCGTTGCAGGTCCAAGGTCATTGTT
+HWI-EAS443:3:73:1252:1600#0/1
aaa_¥`Y¥` [TV`_a^X`UXTU¥_ZW_Z^^[VSZ^[^YVY
@HWI-EAS443:3:73:1254:26#0/1
ATTTCTTTTGTCCAAGATTTCAGTATCGAGACTCCCAAGAC
+HWI-EAS443:3:73:1254:26#0/1
abbbabbbbb``^bbabb`a`aab`babaRaa_`aaa_Z

@HWI-EAS443:3:73:1336:307#0/1
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+HWI-EAS443:3:73:1336:307#0/1
^`^_W`T_b`bb__¥b`W_T_a`a`UOY_aaaa_¥`b]Z
@HWI-EAS443:3:73:1346:1423#0/1
AAAAATTCCAGCGCAAATGCCATAAGCACCATTCCT
+HWI-EAS443:3:73:1346:1423#0/1
aa`Y[aa¥^_Q_^X¥__WW_X_a_[]aUa^RY^`XSY_X[
@HWI-EAS443:3:73:1347:1598#0/1
CCCTATTGTTCTTTGCGTGACCATCTTCTTGGTCATGTTG
+HWI-EAS443:3:73:1347:1598#0/1
aabbabbbbaababaaa`a_[_]aZ`a]aaaV`_aaa`]^
@HWI-EAS443:3:73:1390:443#0/1
GAAATCTATTAGCCTTCCTGACTCATTAGCTGTTAGCCA
+HWI-EAS443:3:73:1390:443#0/1
aaaaaaabaaa`_a`^aa`^a`aaa`_` `[____^ZV]
@HWI-EAS443:3:73:1401:1424#0/1
TTGGGTTTGATCCCACAGCTTCTTTAACTCAAATGATCTT
+HWI-EAS443:3:73:1401:1424#0/1
^Z`_aJ^bbaaabab`^`aabbaaaa`aabaa_a`aa¥aa
@HWI-EAS443:3:73:1418:1423#0/1
AAAAAACAAAGACTGAATAAGAGAGGCTATCTAATAAGAG
+HWI-EAS443:3:73:1418:1423#0/1
[_^¥Y^bbaaa¥_a]^aUR¥` `b`¥Y^^[BBBBBBBBBBB
@HWI-EAS443:3:73:1434:522#0/1
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+HWI-EAS443:3:73:1434:522#0/1
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@HWI-EAS443:3:73:1435:1443#0/1
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+HWI-EAS443:3:73:1435:1443#0/1
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+HWI-EAS443:3:73:1444:205#0/1
aaaaa`_¥¥_URU][]W¥VJFO]Y^¥^P^SOXZ]^XXX¥¥
@HWI-EAS443:3:73:1459:186#0/1
GCTCCAATCATCCGACGATTTTGCTCTCATAGTGAATGCA
+HWI-EAS443:3:73:1459:186#0/1
a`_aaaa_a`YU`_Va`^__aaV^^^X_^][Z^^^`]UV
@HWI-EAS443:3:73:1464:523#0/1
CAGGAACAGGATACACCATGGACACAGTAAACAGAACACA
+HWI-EAS443:3:73:1464:523#0/1
ab`aabaabbaa`a` `aabaa_a¥_a`aa`Yaa_a]_^`
@HWI-EAS443:3:73:1508:1431#0/1
GTGATTGTGAAAGAAATCTCTGTGTCTTGTGAATTAGTCA
+HWI-EAS443:3:73:1508:1431#0/1
a^a_aa^[^^^¥`__`[¥^____]_____`]W[Y]^TZTKO
@HWI-EAS443:3:73:1537:1391#0/1
AAAATTCCAGCGCAAATGCCATAAGCACCATTCCT

+HWI-EAS443:3:73:1537:1391#0/1
a]_Y_aaa`[``[`]X`a_]a`¥`_a_[``]`a]WXW`^
@HWI-EAS443:3:73:1559:2019#0/1
AGACTAGGGAAAGGGTACATGTTTCGAGAGTAAAAGAATGA
+HWI-EAS443:3:73:1559:2019#0/1
`]^ZV¥a`Y`S_U[SO__YT]Y[[WQ¥VaV`__^`^^Z
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GGGATGGGCTCCAATCATCCGACGATTTTGCTCTCATAGT
+HWI-EAS443:3:73:1594:843#0/1
`b`aabbbaa`aa^aaaa__aaa]]aaaa_a_a`aaaa_
@HWI-EAS443:3:73:1652:250#0/1
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+HWI-EAS443:3:73:1652:250#0/1
aaVa`aZNY`¥S¥G__^^_aTP^`_[[Q`UU[MZa^XLUV
@HWI-EAS443:3:73:1655:1537#0/1
GTCTAGGGCCCGATTGATGCCAGGGTCGACTTCGAGTCT
+HWI-EAS443:3:73:1655:1537#0/1
aaa^]`baaaYab`^a`a`^_]Sa``W_a^SaaYa^^VU`
@HWI-EAS443:3:73:1692:1756#0/1
GGCTCCAATCATCCGACGATTTTGCTCTCATAGTGAATGC
+HWI-EAS443:3:73:1692:1756#0/1
Y]`Y^aba`a`a[_aaaa[`aaa¥aa`^V[¥`aV_]__]_
@HWI-EAS443:3:73:1774:1097#0/1
TGGCTCTTCAATTGTTTCATCAAAGACTACAGATACACATA
+HWI-EAS443:3:73:1774:1097#0/1
aa^aaa`a^[^]_[[¥X__R_`¥SYO[]T]Y]]¥[^U`]
@HWI-EAS443:3:73:1789:829#0/1
GTTTCGAGAGTAAAAGAATGAAGATTCGAACACAAATACCA
+HWI-EAS443:3:73:1789:829#0/1
¥_`^a[Z_HXVW]V`YTW_Z]a¥X[R_Z[P[P[XX¥¥TT[
@HWI-EAS443:3:73:183:51#0/1
GTGGTAATGCCAGCCCATGGTCCAGCCAAAAGCATGGAAT
+HWI-EAS443:3:73:183:51#0/1
aaaa¥aa`]`_____^V¥__WW[VFVY^¥¥VXZ¥W¥YYWW
@HWI-EAS443:3:73:223:1590#0/1
GTCCTCCATCTGATACTAATAGCCCTACCTTTGATTGGGT
+HWI-EAS443:3:73:223:1590#0/1
a_aa_aab^a]aaNX[]`W¥_XaaaR[`Z^X[¥NZL]¥¥U
@HWI-EAS443:3:73:249:167#0/1
AACGATTCTCTTGGGAATCCAGGAATGTGTAGTTGCAAC
+HWI-EAS443:3:73:249:167#0/1
a¥_``S]`_^^^_¥`W]^]UUX]]UY^]W^XX]YXWWUXX
@HWI-EAS443:3:73:254:1045#0/1
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+HWI-EAS443:3:73:254:1045#0/1
`aaaa^aaa`aaaa`a`Za___a_aa```_Z`_]`_]__
@HWI-EAS443:3:73:269:1947#0/1
TATTGGTGTGTTCTGTTTACTGTGTCCATGGTGTATCCTG
+HWI-EAS443:3:73:269:1947#0/1
aaaaV¥¥``abba`_aaabbab_aYaaba`_Q¥[`W`a`¥

@HWI-EAS443:3:73:305:1844#0/1
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+HWI-EAS443:3:73:305:1844#0/1
]a[NV^_b_¥Yab`bb`^`a_^aa_aa¥[`[a_`WX_TQ]
@HWI-EAS443:3:73:369:316#0/1
AACAGATCTTCATGATCTCAGAGAACTCTTCTTTCTTGAT
+HWI-EAS443:3:73:369:316#0/1
abaaaa_a`baaaa`aa`aYa_`aaaa_a_a`aaa^a`^
@HWI-EAS443:3:73:418:1270#0/1
GTGTCTAGGGCCCGATTGATGCCAGGGTCGACTTCGAGT
+HWI-EAS443:3:73:418:1270#0/1
aWRU`QJOLV_]_]YVOSYL^[¥¥VOFY[[YZQVPQVU
@HWI-EAS443:3:73:442:626#0/1
TGGGTGGGATTCTCAAGGAAAGCCATAGCCTCTAGAACA
+HWI-EAS443:3:73:442:626#0/1
]_U¥QaYa_IJ¥[TPaY_HP`a`a`a`aaRQR[¥`_aQ[`
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+HWI-EAS443:3:73:467:1634#0/1
abab_bbbbabaa_^[abaaabba`_abaaa_]`aYZ¥_`
@HWI-EAS443:3:73:47:1582#0/1
AATCTGTCCACTCCTGCTTGTATTCCCTCATGGTTTGGTG
+HWI-EAS443:3:73:47:1582#0/1
Z]a^L[baa[a`aa`]RYa^_[`aW[W[WWY^SJSZU
@HWI-EAS443:3:73:541:1170#0/1
CATTTGCGAAAAGCTTGAACAGTCTGGGCTCCCAGTAGGG
+HWI-EAS443:3:73:541:1170#0/1
`TW]P]a_¥^¥Yab_]¥R]]_[a]_Z`_`a`aTY[X^SN
@HWI-EAS443:3:73:562:1355#0/1
GGCCCGGATTGATGCCAGGGTCGACTTCGAGTCTGGACGG
+HWI-EAS443:3:73:562:1355#0/1
¥J_ababZ^ba`_`baaX__^aaa]a^`¥^S`¥]`[T[Z
@HWI-EAS443:3:73:574:630#0/1
CAGCTAATGAGTCAGGAAGGCTAATAGATTTCTTAAAGGA
+HWI-EAS443:3:73:574:630#0/1
aaabbbbbbbba`a`bb`]aaaaabaa`aba_aaaaabaa
@HWI-EAS443:3:73:63:122#0/1
GTGTTCTGTTACTGTGTCCATGGTGTATCCTGTTCTGT
+HWI-EAS443:3:73:63:122#0/1
`]baaabbb_ba^_aa_a____aaaXaX_`____`^_^`_Y
@HWI-EAS443:3:73:667:134#0/1
GGGTTGTTATCTCTATTTCTCTTTGTTTCATTGATTCCAT
+HWI-EAS443:3:73:667:134#0/1
aaaWaa`a^`_a¥`_aa`X]_¥_a`_^_]_`a^`][W^^
@HWI-EAS443:3:73:744:749#0/1
CAGTGATGCTGTGCCATCTATTAGAAGAGCCCTATTTTC
+HWI-EAS443:3:73:744:749#0/1
S[a]INaaa^a[`Ta`aXY¥a`YS^__ZWFXX`^VM^¥
@HWI-EAS443:3:73:749:62#0/1
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@HWI-EAS443:3:74:1273:432#0/1
GAAAAATTTCTCGAATAGATTGCAGCACTTCTGGTACATC
+HWI-EAS443:3:74:1273:432#0/1
abaa^aba`¥___]__]aab[_]I]aMaW^[^`a`Ya^aWG
@HWI-EAS443:3:74:1301:1534#0/1
GAGTATTGGTGTGTTCTGTTTACTGTGTCCATGGTGTATC
+HWI-EAS443:3:74:1301:1534#0/1
aa`0_aaa_[^W]^aa^`a_a`a]¥[_a[aaUX[_^T
@HWI-EAS443:3:74:1314:1535#0/1
CAGTGATTGTGAAAGAAATCTCTGTGTCTTGTGAATTAGT
+HWI-EAS443:3:74:1314:1535#0/1
Y`_I__S`_`a`_b`_T`^bba`^b[0^YHOU`````U_
@HWI-EAS443:3:74:1340:171#0/1
CATCATCATCCCAGGACTCAGTGATGCTGTGCCATCTATT
+HWI-EAS443:3:74:1340:171#0/1
T_^WabObbKS`a`bUUaa_babb``aba__Q___bbTbb
@HWI-EAS443:3:74:1361:1981#0/1
AGCTAATGGATGATGATTATCGGGGAAGACTTTGTAATCC
+HWI-EAS443:3:74:1361:1981#0/1
Y`bbbabbabbabbababaaaa_`aaa_aaaa_aaaa
@HWI-EAS443:3:74:1399:1699#0/1
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+HWI-EAS443:3:74:1399:1699#0/1
abbbbbbbbab`baabbabba_aa_a^ba`a_aa`_Z
@HWI-EAS443:3:74:142:123#0/1
GCGAAAAGCTTGAACAGTCTGGGCTCCCAGTAGGGGGCAA
+HWI-EAS443:3:74:142:123#0/1
aaaa^]¥aaaaba_a^bX`^_a_[0¥^_J]WW`_]U`WWR
@HWI-EAS443:3:74:1434:1532#0/1
CATGGTTTGGTGCATTCACTATGAGAGCAAAATCGTCGGA
+HWI-EAS443:3:74:1434:1532#0/1
abaab_ba[Z`b`]_baaabbaaab_b^aba`a^a]R`_`
@HWI-EAS443:3:74:1446:1733#0/1
GCCTCTTCTAATAGATGGCACAGCATCACTGAGTCCTGGG
+HWI-EAS443:3:74:1446:1733#0/1
aa_a`_`_`aaa`Ta`_^TX``a_U]R_[W`U^XY]] [RX
@HWI-EAS443:3:74:1467:1355#0/1
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+HWI-EAS443:3:74:1467:1355#0/1
^]abbb^baab`aababb_bbab_a`bY_¥b_a¥aaaaaa
@HWI-EAS443:3:74:1467:1629#0/1
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+HWI-EAS443:3:74:1467:1629#0/1
aabaab``aabb`b_aa_a__aa[_aaab`a`ba`TU_a
@HWI-EAS443:3:74:1475:344#0/1
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+HWI-EAS443:3:74:1475:344#0/1
^Z`Z`ba`aabbbbNa`bbaa`b`[^abaX[bbaK^aa¥N
@HWI-EAS443:3:74:1496:1071#0/1
TTGGGAATCCAGGAATGTGTAGTTGCAACGGCATCATATT

+HWI-EAS443:3:74:1496:1071#0/1
`W_aa]` `X¥_]` `a_`] `ba_a¥ab^a^Q_` `M` aL_a` a_
@HWI-EAS443:3:74:1533:1886#0/1
CAAACACAGAGACTGGTGCACCCCAGCTCAACCCGATTGA
+HWI-EAS443:3:74:1533:1886#0/1
abUaaaaababb^ba^P` a^¥Ta]]]a]Uab¥Z]^a^a¥]
@HWI-EAS443:3:74:1535:878#0/1
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+HWI-EAS443:3:74:1535:878#0/1
aaa` abab` ab` bbbbabbaabbaab` bbaU` aVaaaa`
@HWI-EAS443:3:74:1555:1231#0/1
TGTCAATCCGACTCTACTTTTCCTAAAAATCCAGCGCAA
+HWI-EAS443:3:74:1555:1231#0/1
RYJWX_V]¥_` _^T^_Z__¥_]W_a` R¥¥a¥XXaa_Z]` [
@HWI-EAS443:3:74:159:1984#0/1
GGTCCCTCATCTGATACTAATAGCCCTACCTTTGATTGGG
+HWI-EAS443:3:74:159:1984#0/1
`NV_]`[^` [Ra__RXW^ZW_V]Y_^` W[VZ_¥]NXRV¥PP
@HWI-EAS443:3:74:1658:1124#0/1
AAAGAACAACATGATAAACAATGACCTTGGACCTGCAACG
+HWI-EAS443:3:74:1658:1124#0/1
abbbab_ab` abaabbaa]a` `b` `__aaaa¥_ba_]__¥
@HWI-EAS443:3:74:1670:53#0/1
CATGATCTCAGAGAACTCTTCTTTCTTGATCCGTCAGAC
+HWI-EAS443:3:74:1670:53#0/1
`ab^`[[a^abaaaa` aabbabba_bba` b_¥` _¥` _` _W
@HWI-EAS443:3:74:1677:655#0/1
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+HWI-EAS443:3:74:1677:655#0/1
abbbb` baaaaaS` a__ba¥b` abaab[a` aRaa_a^a^
@HWI-EAS443:3:74:1704:983#0/1
GCTCCAATCATCCGACGATTTTGCTCTCATAGTGAATGCA
+HWI-EAS443:3:74:1704:983#0/1
_` babbbb` bba_ba]baabaab_aaaaaba` a[aa]^_
@HWI-EAS443:3:74:1768:2044#0/1
TGTGGGATCAAACCAATCAAAGGTAGGGCTATTAGTATC
+HWI-EAS443:3:74:1768:2044#0/1
`] [aaab_aaaa__` aaaaa` _aa0_a`]` _aa_` a]__^
@HWI-EAS443:3:74:1769:507#0/1
CCAGTGATTGTGAAAGAAATCTCTGTGTCTTGTGAATTAG
+HWI-EAS443:3:74:1769:507#0/1
aaabaaaaaUa` aaaaaa` a` a` ^]]_baTXa]aaaXZ
@HWI-EAS443:3:74:243:178#0/1
GTGAAGATTCCGTATATTGTATAAGTTTGGTCCTCCATCT
+HWI-EAS443:3:74:243:178#0/1
a` aa^aaaa_aa_¥a_aaa_` a^^a^` `__¥¥__¥[^_]_
@HWI-EAS443:3:74:245:443#0/1
ATTCGATCTAAAGACTTCTATGGTGTGGCCAATGCAGTT
+HWI-EAS443:3:74:245:443#0/1
a_[aa` _Z` __]RWY_^U]^` __Z]]Z_^__¥¥¥¥X^V^

@HWI-EAS443:3:74:290:1580#0/1
GACGGATCAAGAAAGAAGAGTTCTCTGAGATCATGAAGAT
+HWI-EAS443:3:74:290:1580#0/1
_`ab`babbbb_bbabaaZ]^aaaaa`a¥^aaaa_]a`a`
@HWI-EAS443:3:74:292:1672#0/1
GTCTGGAGTAAATGAATCAGCTGACATGAGTATTGGAGTA
+HWI-EAS443:3:74:292:1672#0/1
H¥U`^bababbbbaa¥bbb_aa``babbaaa__baaa_b^b
@HWI-EAS443:3:74:29:772#0/1
CACCTATATGTGTATCTGTAGTCTTTGATGAACAATTGAA
+HWI-EAS443:3:74:29:772#0/1
aabb]bbbbbaba^bbbbaaaaabbbbbbbbaaaaaaaaaab
@HWI-EAS443:3:74:309:193#0/1
CAGAAACATCCTGAGCATGGCACCCATAATGTTCTCAAAC
+HWI-EAS443:3:74:309:193#0/1
`b`abbbaabbababb`bba`bb_aabaaa`aa__a`^`
@HWI-EAS443:3:74:347:206#0/1
AGACAACATGACCAAGAAGATGGTCACGCAAAGAACAATA
+HWI-EAS443:3:74:347:206#0/1
aaa`aa`aZ^^a]^`_`_a`^^_Z`^`X[]`]]]ZW^]
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+HWI-EAS443:3:74:360:2028#0/1
a_a^]aaaa_W]^`a^aaa^aa_¥[a_aU`Y^_aa`^^TXW
@HWI-EAS443:3:74:36:682#0/1
ACTTTGTAATCCCCTGAATCCCCTTTGTCTAGTCATAAAGAG
+HWI-EAS443:3:74:36:682#0/1
ababab_babb_baaa[HXa`a_a_aUZYa]^`^__PVY]^`
@HWI-EAS443:3:74:420:907#0/1
ATGGCTTTCCTTGAAGAATCCCACCCAGGAATATTTGAGA
+HWI-EAS443:3:74:420:907#0/1
aaaaaa`aa`a``aaaa^`aa`aa_Q]XPV`___`¥Y^_
@HWI-EAS443:3:74:467:1706#0/1
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+HWI-EAS443:3:74:467:1706#0/1
Y^WaY^PYUZbK¥UY^a]_T¥a¥_a^aaa]O[^`BBBBBB
@HWI-EAS443:3:74:476:1393#0/1
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+HWI-EAS443:3:74:476:1393#0/1
aaabb`baa]^`a`b`bbababbaba`aY`aaaaX[`a]a`
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CTCAAACAAAATGGCAAGACTAGGGAAAGGGTACATGTTC
+HWI-EAS443:3:74:506:1862#0/1
a¥[`UY`^`_]`^^_aa^T_a]VX`a_X[F[aa_^ZXa
@HWI-EAS443:3:74:507:387#0/1
GCCCCGATTGATGCCAGGGTCGACTTCGAGTCTGGACGGA
+HWI-EAS443:3:74:507:387#0/1
ababbbbaaba]abbaaaaa¥aa^_aaa`aaY]aaaa]^a¥
@HWI-EAS443:3:74:629:1443#0/1
TGTTGGGATGGGCTCCAATCATCCGACGATTTTGCTCTCA

+HWI-EAS443:3:74:629:1443#0/1
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@HWI-EAS443:3:74:644:497#0/1
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+HWI-EAS443:3:74:644:497#0/1
_aa`_XUa_a_a_[a`a`PQ^¥^^`IZ¥_¥VFW[`S¥P^
@HWI-EAS443:3:74:645:1487#0/1
ATTGGTGTGTTCTGTTTACTGTGTCCATGGTGTATCCTGT
+HWI-EAS443:3:74:645:1487#0/1
]ba]]Y__`[aa`¥Ya]Z`ab_`aZ]aa]L]Z`P^[`¥V
@HWI-EAS443:3:74:658:432#0/1
GAGATTTCTTTCACAATCACTGGGACAACACTAAGTGGGA
+HWI-EAS443:3:74:658:432#0/1
^`a¥aa`XYUZ`aaa^]]]]aa`[[a^Va`_aa`P¥^T
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GGGCTCCAATCATCCGACGATTTTGCTCTCATAGTGAATG
+HWI-EAS443:3:74:697:1017#0/1
ababbbba_Zabbbbbb_bab[aaaaaaaaabba]_`baaaa
@HWI-EAS443:3:74:702:771#0/1
GAAAAGCTTGAACAGTCTGGGCTCCCAGTAGGGGGCAATG
+HWI-EAS443:3:74:702:771#0/1
a_a^X_^]]aa^]WaU`aa]]__[^¥`Z`X`_`WR][_
@HWI-EAS443:3:74:757:1961#0/1
GTTCTGTTTACTGTGTCCATGGTGTATCCTGTTCCCTGTTC
+HWI-EAS443:3:74:757:1961#0/1
a_abaa¥^aaaa_]aUbaa_[a0_SZZ``ZUH^`V_^¥V_
@HWI-EAS443:3:74:75:709#0/1
GAGATAACAACCCACTTTCAAAGAAAAAGGAGAGTAAGAG
+HWI-EAS443:3:74:75:709#0/1
aZWXsa`a]Z_VTRS_ZW]WXO]R__XWV^ZaQ^FZW_Z]
@HWI-EAS443:3:74:781:933#0/1
CAGAAAAGGGAAAAGTGGACGACAAACACAGAGACTGGTGC
+HWI-EAS443:3:74:781:933#0/1
R`aaaaZV^V^XZ`Z__a_]Wa_¥¥^_Zab¥T¥ZP`]RUQ
@HWI-EAS443:3:74:810:239#0/1
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+HWI-EAS443:3:74:810:239#0/1
a]a`a`_a^aa`aa`a`_`^`_a`_`_]__a^[]^
@HWI-EAS443:3:74:811:759#0/1
GGGCTATTAGTATCAGATGGAGGACCAAACCTTATACAATA
+HWI-EAS443:3:74:811:759#0/1
a`]`abb```_aaaa`]^aaaa_a`aaaaaaaa``_aaa
@HWI-EAS443:3:74:814:383#0/1
TGACCTGAAGTACTTCAATGAATCAACAAAGAAGAAAATT
+HWI-EAS443:3:74:814:383#0/1
`a`[¥¥[V¥¥W^[`S¥[`¥_] [¥¥Wbb`PFYT_a[[_aba
@HWI-EAS443:3:74:848:1467#0/1
GGGGCAATGAAAAGAAGCCAAACTGGCAAATGTTGTGAG
+HWI-EAS443:3:74:848:1467#0/1
a_aa]0[aa`YZX_JS0``X`_Y[QaUX`S`PYM`aY]X`

@HWI-EAS443:3:74:84:216#0/1
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+HWI-EAS443:3:74:84:216#0/1
aa` `aaaaaaa`a`Za__aaa^]__Z^_^]____`^][W^
@HWI-EAS443:3:74:855:1345#0/1
CTTGTGTTGAGAATAGAACGATTCTTGGGAATCCAGG
+HWI-EAS443:3:74:855:1345#0/1
abba_bbbaab`bab`abba_^a_` `aaaaa^abaa_a`a
@HWI-EAS443:3:74:902:790#0/1
GTCTGGGCTCCCAGTAGGGGCAATGAAAAGAAGGCCAAA
+HWI-EAS443:3:74:902:790#0/1
aaaaababaabaaaaaaaabaa`aaaaa]aa` `a_` ``
@HWI-EAS443:3:74:906:1743#0/1
ATGGAATCAATGAACAAAGAGGAAATAGAGATAACAACCC
+HWI-EAS443:3:74:906:1743#0/1
aabaabb`bbaaaa¥`baaaaa_^Yabaaaa_aaaaa]SZ
@HWI-EAS443:3:74:927:1469#0/1
TTCCTCTTTGTTTCATTGATTCCATTACATCCTTTAAGAAA
+HWI-EAS443:3:74:927:1469#0/1
UaaS_¥` `]QP[`_ZJZ¥¥¥J¥_¥Q¥_b]MZSPP`YXK¥^
@HWI-EAS443:3:74:936:673#0/1
CCAGTATATTGTCTTGGTGTATTTCTTTTGTCCAAGATTC
+HWI-EAS443:3:74:936:673#0/1
^`a_SW_Z`^¥G_W_YaW`_S¥_¥¥¥`b[ZW^XU`_^`^X
@HWI-EAS443:3:74:946:1776#0/1
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+HWI-EAS443:3:74:946:1776#0/1
_]bbaaaa¥¥`J¥a`aa]a`babbb^Ya^aaa_Vb_` `[YR
@HWI-EAS443:3:74:958:1088#0/1
GGGCTCCAATCATCCGACGATTTTGCTCTCATAGTGAATG
+HWI-EAS443:3:74:958:1088#0/1
abb`abbbbbbbab`ab`_a]^aa` `abbaa` [a`a`b
@HWI-EAS443:3:74:961:285#0/1
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+HWI-EAS443:3:74:961:285#0/1
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+HWI-EAS443:3:75:1005:1914#0/1
__`a^^]Yaa]a`aa__aaaa_aa` `` `aa`aaaa`a_a`
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GGCTAATTTTAGCATGGAGCTACCCAGCTTTGGAGTGTCT
+HWI-EAS443:3:75:1006:754#0/1
ab_b_babaababaaba¥aaaaaa^[_`a`_]¥U`^aW^a
@HWI-EAS443:3:75:1029:388#0/1
AAGAAATCTATTAGCCTTCCTGACTCATTAGCTGTTAGGC
+HWI-EAS443:3:75:1029:388#0/1
aab]aababababa_aaaa_baa_a_abaaaaaa[[_`¥]_
@HWI-EAS443:3:75:1031:1705#0/1
AACATCCTGAGCATGGCACCCATAATGTTCTCAAACAAAA

+HWI-EAS443:3:75:1031:1705#0/1
`[aaW_^UUZaba¥YZW`_]J[_`Q`a^a`]T[]aX_¥a`
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+HWI-EAS443:3:75:1032:511#0/1
a]bbaaababbbbb_bbbababa`aaaabaaa_a_a`^]a
@HWI-EAS443:3:75:1081:417#0/1
GTGGGTTGTTATCTCTATTTCTCTTTGTTTCATTGATTCC
+HWI-EAS443:3:75:1081:417#0/1
a[_`__[aaTaXaZa`aab`V^_a```````_`a`_`_`]
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+HWI-EAS443:3:75:1154:1827#0/1
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+HWI-EAS443:3:75:1160:1707#0/1
abb`_bbbbbaa`ba]_`bbababaa`babaa]aabb^U`
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+HWI-EAS443:3:75:1170:692#0/1
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GCAAAGAACAATAGGGAAGAAAAACAAAGACTGAATAAG
+HWI-EAS443:3:75:1219:1987#0/1
a__V_¥Pa`¥`^]ZU`]HZ`_`K_]¥P`_S[_`^^^U¥`¥^]
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+HWI-EAS443:3:75:1223:1144#0/1
Xbabababbabbabbbbabbbabbbb_babab^bbaaaa
@HWI-EAS443:3:75:1239:1092#0/1
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+HWI-EAS443:3:75:1239:1092#0/1
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+HWI-EAS443:3:75:1252:1451#0/1
aba```abbba[]^aaaaaa`aa_aaY`ba`aaaa[Ra
@HWI-EAS443:3:75:1274:1102#0/1
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+HWI-EAS443:3:75:1274:1102#0/1
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+HWI-EAS443:3:75:1306:126#0/1
a^a`aa`a`aaaa`aaa^`a_]a^Y`]__[_][R^^^

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+HWI-EAS443:3:75:1335:334#0/1
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+HWI-EAS443:3:75:141:704#0/1
`Y¥aaaba]_a`a`a`_`a_¥_`[_`_`_¥_`_`_`[_`_`X^_
@HWI-EAS443:3:75:1431:1409#0/1
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+HWI-EAS443:3:75:1431:1409#0/1
R[UU¥`_`_`XXWWV`aU^¥`aaYaZ^^¥`b`bV^_NRaa`_`
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aa^bYbaa`bbaab_abb_b]Zaa`aaWb`aa¥Za`_`aX¥
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+HWI-EAS443:3:75:1508:1137#0/1
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@HWI-EAS443:3:75:1518:1546#0/1
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+HWI-EAS443:3:75:1518:1546#0/1
U`¥bbXbbba_aTbbbVbbaab_a^^ab¥b_Ybbaa¥b¥b
@HWI-EAS443:3:75:1622:1955#0/1
GAGAGGCTATCTAATAAGAGCACTGACATTAATAACGATG
+HWI-EAS443:3:75:1622:1955#0/1
aabba_aaaa`a]a__a`_`_Z_]VSZY_aa`_`aa`Y`_`¥a
@HWI-EAS443:3:75:1664:105#0/1
TCCTGCTTGTATTCCCTCATGGTTTGGTGCATTCACTATG
+HWI-EAS443:3:75:1664:105#0/1
^aa_ZYabb]a`b][aaaa_¥W__a^Va]¥)`[YX`]]_
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+HWI-EAS443:3:75:1698:1438#0/1
aa]a]`bbabbbbabbba`a_aba_U^^a`aaaaa¥a`¥`
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+HWI-EAS443:3:75:1752:1098#0/1
aa_`_`aababaaa]baabaaaab^¥^_a`_`aa`_`a`_`aa
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+HWI-EAS443:3:75:1766:1639#0/1
_aaaa__aaaaaa`a_aa]`aX^__`_`^Z____a`^^a_ZX
@HWI-EAS443:3:75:194:531#0/1
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+HWI-EAS443:3:75:194:531#0/1
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+HWI-EAS443:3:75:200:516#0/1
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+HWI-EAS443:3:75:216:1236#0/1
a^]_Z`a[[Y^a]QX¥S]_W__U]UL¥`_Z^] ^WW¥[^][
@HWI-EAS443:3:75:267:1224#0/1
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+HWI-EAS443:3:75:267:1224#0/1
[`^¥ZXX_]RJP[URP]a^M^L_]W_ZW_^YZUTOQSYP
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+HWI-EAS443:3:75:303:1169#0/1
aabb]`^a^`aaa^`aa_aaa_¥]]`aa_```¥¥^`_^``
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+HWI-EAS443:3:75:30:1536#0/1
abY__ab^b[T0^`Ib^a[_Y]aaa^^[XUSZSS¥`Y^[P
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GTTTGAGAACATTATGGGTGCCATGCTCAGGATGTTTCTG
+HWI-EAS443:3:75:310:871#0/1
a]aa¥aa]ZbXbUZ¥a`__`a[``_`^R``LY_Q_¥RX_
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[X¥UU_ZTZ^^aaaab`__^¥aa_S]___¥^]a`R_XDIJ
@HWI-EAS443:3:75:347:1165#0/1
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+HWI-EAS443:3:75:347:1165#0/1
a_aaa¥a^`__`_```Ya__`^W_^_]^^^]X_Z¥X]^Z
@HWI-EAS443:3:75:376:990#0/1
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+HWI-EAS443:3:75:376:990#0/1
_`_a_`aa_¥QX¥¥M[^¥```_`¥XXZ¥X`_YZ¥ZUKUV
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+HWI-EAS443:3:75:435:182#0/1
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@HWI-EAS443:3:75:452:489#0/1
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+HWI-EAS443:3:75:452:489#0/1
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@HWI-EAS443:3:75:454:675#0/1
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+HWI-EAS443:3:75:454:675#0/1
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@HWI-EAS443:3:75:472:1423#0/1
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+HWI-EAS443:3:75:472:1423#0/1
a^aaaaaaaaa```_a__a```a_`_]`__aa_b_`^¥_

+HWI-EAS443:3:75:760:712#0/1
aa¥_]ababbbbaaUJ_aaaa_`baa`ab`baaa```aaM[
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+HWI-EAS443:3:75:776:1187#0/1
abYbab```ab¥aaba^ba_TZa``]Vaa_]ZYa]__aaT
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+HWI-EAS443:3:75:777:1560#0/1
a_`^`a^aa]aaaaaa`aaaa_````a_`_`aa_aa`_a
@HWI-EAS443:3:75:801:524#0/1
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+HWI-EAS443:3:75:801:524#0/1
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+HWI-EAS443:3:75:825:47#0/1
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@HWI-EAS443:3:75:858:1730#0/1
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+HWI-EAS443:3:75:858:1730#0/1
_bbbabba`^`bbaab`baabaababbb_abaaaa``a_Y
@HWI-EAS443:3:75:90:1579#0/1
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+HWI-EAS443:3:75:90:1579#0/1
aa^a_`^`a`aY^abaaaaa¥X_aaa_a`_`^Y]X_`]
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+HWI-EAS443:3:75:921:1632#0/1
a_]__S_aUaX¥W]¥a`¥^^`_a]Z[_]_^^]]]¥^X^¥
@HWI-EAS443:3:76:1002:1629#0/1
GAAAAGGGAAAGTGGACGACAAACACAGAGACTGGTGCAC
+HWI-EAS443:3:76:1002:1629#0/1
a^_X`aa][]VG[`S[`^[` _¥UQV_¥WUSSUUSMWNW
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+HWI-EAS443:3:76:1022:1499#0/1
]abbb`aab[_U`[_`ZW^¥0[_SSaVVG[]]JHb`_YT
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CTTGGGAGTCTCGATACTGAATCTTGGACAAAAGAAATAC
+HWI-EAS443:3:76:1029:1332#0/1
abbbbaabbbabababaaa]bbabbaaaaa`aaaba_a`
@HWI-EAS443:3:76:102:1708#0/1
AGCCTCTCTTATTCAGTCTTTGTTTTTCTCCCTATTGT
+HWI-EAS443:3:76:102:1708#0/1
]_aa``aa`aa_X]aa^``Xa_`_`a`¥`[a```]VU
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+HWI-EAS443:3:76:1044:1486#0/1
^a`_R_aaa``a_a]TW¥aa`aa[a¥YY`_]_U_[^NFQ^

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+HWI-EAS443:3:76:1056:703#0/1
a`_aa^_`aaa_Z^a`_]`a`__V__`_ZU_^Va__][
@HWI-EAS443:3:76:1071:304#0/1
TGATGCCAGGTTCGACTTCGAGTCTGGACGGATCAAGAAA
+HWI-EAS443:3:76:1071:304#0/1
abaa`Z`_]`]]TY]Y[_VU^¥YRZ[^^WV_¥SLW_[TT]^
@HWI-EAS443:3:76:1076:569#0/1
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+HWI-EAS443:3:76:1076:569#0/1
a]_aY¥_a^a¥^¥US¥]¥W_¥^^U_WZ¥__UW_¥QSSYW¥
@HWI-EAS443:3:76:1087:1402#0/1
AGCCTCTCTTATTTCAGTCTTTGTTTTTTCTTCCCTATTGT
+HWI-EAS443:3:76:1087:1402#0/1
aa`abbbbbbbba`a`abbaa]baaaa`aaY_abaaaa`
@HWI-EAS443:3:76:108:1462#0/1
GGGATGGGCTCCAATCATCCGACGATTTTGCTCTCATAGT
+HWI-EAS443:3:76:108:1462#0/1
aa¥Za[_`b`_`_¥]^]Z`Ua¥U]]SZVZ^_[^`^^¥¥[ZN
@HWI-EAS443:3:76:1104:1892#0/1
TGTGTATCTGTAGTCTTTGATGAACAATTGAAGAGCCATC
+HWI-EAS443:3:76:1104:1892#0/1
aXTaSZVb]¥OPQQ`]a`^^YNTWH¥V`]^`^`_V^]WU_]`
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+HWI-EAS443:3:76:1139:87#0/1
abababbbbaababbbba`bbaabbaaaaa`_¥_]_a_¥`
@HWI-EAS443:3:76:1155:62#0/1
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+HWI-EAS443:3:76:1155:62#0/1
a`aaa`babaa`_U`___aa__a`_a_¥__WZ]^GWO
@HWI-EAS443:3:76:115:911#0/1
TGGCCTTCTTTTCATTGCCCCCTACTGGGAGCCCAGACTG
+HWI-EAS443:3:76:115:911#0/1
aabbbbbbbbabbaabbabaaaaa```aaa`_`Z```__`
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+HWI-EAS443:3:76:1168:1015#0/1
_]_a¥a_]`aVFT`]X^P[_a^[SLYZZU[_ZN]UY^[UT
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+HWI-EAS443:3:76:1181:553#0/1
abab`bbbbbaabaab`abbbab^aaabaa_aaaa_b]aa
@HWI-EAS443:3:76:1191:1498#0/1
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+HWI-EAS443:3:76:1191:1498#0/1
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+HWI-EAS443:3:76:1288:1247#0/1
a^X__a^^a_^_¥_[]^V¥[]a^¥QFTY^PZ^PVZ^[NZ
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+HWI-EAS443:3:76:128:1872#0/1
aa^^babaaba_babbaaaa`aa_aaaaaa`aaaaaa`
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+HWI-EAS443:3:76:1298:1289#0/1
aaaa_aaa_Z]`_]aa_`a¥a_a`_¥a`_^¥_^^_^^
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+HWI-EAS443:3:76:1309:1043#0/1
^a¥a¥^^`^`a`]^WWQZa`YRFV^[O^W`N[a`aY`]__
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GGACCACTACCTGAGGATAATGAACCAAGTGGGTATGCAC
+HWI-EAS443:3:76:1338:1041#0/1
a`[^RT^`^V`_Y[S^^^^_^]_[RW]_Y]]VU]X]XVV
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+HWI-EAS443:3:76:1341:2038#0/1
V`ab`bYXXQX`]_a¥`a_aZ0]¥_^SWa[PX^a]VROPV
@HWI-EAS443:3:76:1346:1405#0/1
TGCCGTTGCAACTACACATTCCTGGATTCCCAAGAGGAAT
+HWI-EAS443:3:76:1346:1405#0/1
a]b_Pabbaaa`^V]a`a_]__¥M^]`a____`_`X_^
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+HWI-EAS443:3:76:1418:461#0/1
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@HWI-EAS443:3:76:1445:454#0/1
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+HWI-EAS443:3:76:1445:454#0/1
ababbaaabaaaaa]abaa`aa^`^¥a_a^aaaa]^Z_
@HWI-EAS443:3:76:146:337#0/1
AATTGAAGAGCCATCTGGGCCGTTGCAGTCCAAGGTCAT
+HWI-EAS443:3:76:146:337#0/1
a`aa^aba]`baaa`aa`_a`Z`_`_]V^]`Za_WZZ`
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+HWI-EAS443:3:76:1495:1954#0/1
aa_bbababaaaaVaaaaa^baa¥`aaa^_aa__`__a
@HWI-EAS443:3:76:1502:472#0/1
CTTCATGATCTCAGAGAACTCTTCTTTCTTGATCCGTCCA
+HWI-EAS443:3:76:1502:472#0/1
¥^¥aba`aba_T_aba`_^_bbaW`aa]bbbabXT`_SO¥
@HWI-EAS443:3:76:1505:1056#0/1
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+HWI-EAS443:3:76:1505:1056#0/1
^`^V`aa_aa`^`aaaab`aa^ababaaa`a`bba_aa`P

@HWI-EAS443:3:76:512:1273#0/1
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+HWI-EAS443:3:76:512:1273#0/1
^`aa_]`ababa`ba`ba^a^^Z__a`]]U_^_Z`V`^¥
@HWI-EAS443:3:76:512:1540#0/1
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+HWI-EAS443:3:76:512:1540#0/1
`ZWaaV_baa_]QW^^a_UL`^] ^UVV__¥WP]]]__YU]
@HWI-EAS443:3:76:519:170#0/1
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+HWI-EAS443:3:76:519:170#0/1
a]¥a^_]R¥¥^¥¥^ZU^^]^^^UU^WWWUVU¥TWUWWW
@HWI-EAS443:3:76:549:1693#0/1
CCCATTTTAAGCAGACTTCAGGAATGTGAAGATTCCGTAT
+HWI-EAS443:3:76:549:1693#0/1
aa^^¥_]YY^`]ZZ_ZU_ZZTWZ[YS_```]¥[]¥[R[^
@HWI-EAS443:3:76:549:212#0/1
CCAACCGGTCTCCTATATGAACTGCTAGGGAAAAATTTCT
+HWI-EAS443:3:76:549:212#0/1
ababbbbb^aaabbaaaaaaaaa`aabaaaa`aaa]a
@HWI-EAS443:3:76:555:456#0/1
CCTCCATCTGATACTAATAGCCCTACCTTTGATTGGGTTT
+HWI-EAS443:3:76:555:456#0/1
aba`_Ya`XWV_QYaZV[aa_`_`aTYT]Za_`^`a]W]_`
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+HWI-EAS443:3:76:555:750#0/1
^RUX¥_¥X_Q_]¥V¥]Za``Q^]a¥TUOU][VXU^ZZU]^
@HWI-EAS443:3:76:573:1009#0/1
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+HWI-EAS443:3:76:573:1009#0/1
^aab^aa`a^`^X¥`]^`aa]a`^] ^_`Ya^Z^¥`T`¥^
@HWI-EAS443:3:76:593:332#0/1
TTGGTGTGTTCTGTTTACTGTGTCCATGGTGTATCCTGTT
+HWI-EAS443:3:76:593:332#0/1
]bb]M]P_V[`T`NX]¥TZ]_`^a]V][]Q_TYV]XU^P^
@HWI-EAS443:3:76:605:929#0/1
GTGTGTTCTGTTTACTGTGTCCATGGTGTATCCTGTTCCCT
+HWI-EAS443:3:76:605:929#0/1
a_`U`_aaa_¥_[S_`_W`¥_`^W[^Y_¥W¥^_¥^¥YT¥Y
@HWI-EAS443:3:76:656:1120#0/1
GGCTCTTCAATTGTTTCATCAAAGACTACAGATACACATAT
+HWI-EAS443:3:76:656:1120#0/1
aa`a`aabYbaa`__a_]_^`aa]¥_a_____`W`^a`a_
@HWI-EAS443:3:76:665:2008#0/1
AAAATTTCTCGAATAGATTGCAGCACTTCTGGTACATCTG
+HWI-EAS443:3:76:665:2008#0/1
_V`Q__`a`_]__a`YaX_[`¥SZ^W^Y_]_Sa^^]XS^
@HWI-EAS443:3:76:677:1883#0/1
ATGGAATCAATGAACAAAGAGGAAATAGAGATAACAACCC

+HWI-EAS443:3:76:677:1883#0/1
a[P]a]YbbbTa_ba[]YX_QU[X_Ya¥a^_]aaa`¥RUO
@HWI-EAS443:3:76:682:215#0/1
GAACAACATGATAACAATGACCTTGGACCTGCAACGGCC
+HWI-EAS443:3:76:682:215#0/1
abbabba)`aaab`a_aaaaa`_``^`^`_`^``¥`][X
@HWI-EAS443:3:76:699:475#0/1
GGCCCCGATTGATGCCAGGGTCGACTTCGAGTCTGGACGG
+HWI-EAS443:3:76:699:475#0/1
`bbabb`^`a_aaa_bb`ab_baaa`aabaa_aaaa^^a`
@HWI-EAS443:3:76:736:223#0/1
TCTGTTTACTGTGTCCATGGTGTATCCTGTTCCCTGTTCCA
+HWI-EAS443:3:76:736:223#0/1
aaab_aaaaaa]a)`_``_N_¥_[TZ[a^_U[WU[_VWV
@HWI-EAS443:3:76:779:1264#0/1
TCTAGGGCCCGATTGATGCCAGGGTCGACTTCGAGTCTG
+HWI-EAS443:3:76:779:1264#0/1
abZZY]abb__XZYX^^W`a`Z]^aS`^Z^OT]Y`a^Z^X
@HWI-EAS443:3:76:787:599#0/1
GGCCCCGATTGATGCCAGGGTCGACTTCGAGTCTGGACGG
+HWI-EAS443:3:76:787:599#0/1
W_`]]^¥X]ZR`a^_a`adW[b¥RUa]NGQN_¥`ZE[`Z
@HWI-EAS443:3:76:820:1667#0/1
GCCAGGGTCGACTTCGAGTCTGGACGGATCAAGAAAGAAG
+HWI-EAS443:3:76:820:1667#0/1
aaa_]aP`[[[]PZZZ_L[Z¥a_ab`]T``_a^`a_aZ
@HWI-EAS443:3:76:827:268#0/1
CAATTGAAGAGCCATCTGGGCCGTTGCAGGTCCAAGGTCA
+HWI-EAS443:3:76:827:268#0/1
``bbbbbbabbbbaabbabbbab`_a]ab^DX`babaG`_
@HWI-EAS443:3:76:831:573#0/1
ACCATGGACACAGTAAACAGAACACACCAATACTCAGAAA
+HWI-EAS443:3:76:831:573#0/1
aaaaa`]^aaaaa]a`aaaaa`_`_`^`¥`_a¥^`_a^_]`
@HWI-EAS443:3:76:84:1499#0/1
GGTGCTTATGGCATTGCGCTGGAATTTTAGGAAAAGT
+HWI-EAS443:3:76:84:1499#0/1
aXLWbX_X`TI[aa^_^^`_`_[]Y__Z^__TT¥^^^SI
@HWI-EAS443:3:76:853:1627#0/1
CAGGAATGTGTAGTTGCAACGGCATCATATCCATGCTTT
+HWI-EAS443:3:76:853:1627#0/1
__^ZZab`Xb_^¥W^a`]`]^`a^^¥aaa`_`_`^`aY_¥[
@HWI-EAS443:3:76:867:545#0/1
AGCCTTCTGACTCATTAGCTGTTAGGCCATTTCGATCTAA
+HWI-EAS443:3:76:867:545#0/1
aaaa^aa`^aaaa¥¥aa]Y_aaV_]VZWYSZWY[GQWP¥W
@HWI-EAS443:3:76:87:1625#0/1
AGTGATGCTGTGCCATCTATTAGAAGAGGCCTTATTTTCT
+HWI-EAS443:3:76:87:1625#0/1
a_`aaaabaa_aabaaaaa_____`_`^a`_a]a_`_`¥

@HWI-EAS443:3:76:921:1443#0/1
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+HWI-EAS443:3:76:921:1443#0/1
aaba]b_b`a`_aaa¥aaa`_aa__a^^`[[^a^`]-`
@HWI-EAS443:3:76:939:1325#0/1
CAGTGATTGTGAAAGAAATCTCTGTGTCTTGTGAATTAGT
+HWI-EAS443:3:76:939:1325#0/1
a^aa`aa^Qaabbbb`abbabb_]_baa_aaaaa`a¥
@HWI-EAS443:3:76:956:564#0/1
CTTTTCTGAGTATTGGTGTGTTCTGTTTACTGTGTCCATG
+HWI-EAS443:3:76:956:564#0/1
`abbbbaZ_b`bbba]ba`aaa`_`b¥]ba^a`[]`ab
@HWI-EAS443:3:76:959:1680#0/1
ATTTACTCCAGACTCCAAAGCTGGTAGCTCCATGCTA
+HWI-EAS443:3:76:959:1680#0/1
aa^[[aaaaa`a`a`a_aa_^[[^^[Z_Y]][^_]XU^
@HWI-EAS443:3:76:97:1430#0/1
CGGATTGATGCCAGGGTCGACTTCGAGTCTGGACGGATCA
+HWI-EAS443:3:76:97:1430#0/1
`b_Z^b`_¥_bbaaaa¥baa`_`a¥^¥¥a`a^]`^`_S`_`
@HWI-EAS443:3:77:101:1232#0/1
CTTTCCTTGAAGAATCCCACCCAGGAATATTTGAGAATTC
+HWI-EAS443:3:77:101:1232#0/1
aaa`_a_aa_aX`a_aa_aaa_V`_XZ]]____a_W`_^¥
@HWI-EAS443:3:77:1040:1174#0/1
GAAGAATCCCACCCAGGAATATTTGAGAATTCATGCCTTG
+HWI-EAS443:3:77:1040:1174#0/1
__b_W¥YS]¥^_¥Ya``¥`QXZ^0)`_`a[OS`¥[_[YT_
@HWI-EAS443:3:77:1081:565#0/1
CCCGGATTGATGCCAGGGTCGACTTCGAGTCTGGACGGAT
+HWI-EAS443:3:77:1081:565#0/1
aabbbabbbbabbbbba¥aaa`abaaaa_aabaaba_
@HWI-EAS443:3:77:1184:1900#0/1
GAACAATTGAAGAGCCATCTGGGCCGTTGCAGTCCAAGG
+HWI-EAS443:3:77:1184:1900#0/1
ab_WXaabbab`aaa[a[Y]YL¥aaaZ`_`aa]R`____aW
@HWI-EAS443:3:77:1195:1162#0/1
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+HWI-EAS443:3:77:1195:1162#0/1
aabbabbb`ba__bbb_bb^bbbbbbaabbbbaabbbba_aa
@HWI-EAS443:3:77:1209:1113#0/1
CAACTGCATTGGCCAACACCATAGAAGTCTTTAGATCGAA
+HWI-EAS443:3:77:1209:1113#0/1
a_bbbbabbbbabababaababaaab`abbabbaa^`a_
@HWI-EAS443:3:77:1285:1433#0/1
GAGACAACATGACCAAGAAGATGGTCACGCAAAGAACAAT
+HWI-EAS443:3:77:1285:1433#0/1
aabaabaaabba]aaabaaaa`^`aab````]a`a_`^a
@HWI-EAS443:3:77:1295:1045#0/1
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+HWI-EAS443:3:77:1295:1045#0/1
T^`bbbaaa_ba_a[a`aJ`^`__b_aa`¥Z`bbbb`b_
@HWI-EAS443:3:77:1317:930#0/1
TAAAGAACAACATGATAACAATGACCTTGGACCTGCAAC
+HWI-EAS443:3:77:1317:930#0/1
ab_a`_aabaZaa`^a`a`]^`^aaa¥_a_aa¥_Yaa__`Z
@HWI-EAS443:3:77:1336:163#0/1
GATTCCCCTAACTTGCAGGTCCTGTAGAATCTGTCCACT
+HWI-EAS443:3:77:1336:163#0/1
abaa]a`a`a`_`^`_`a`_`]^`Z`_`^`]^`^_N`YXU]U^
@HWI-EAS443:3:77:136:1749#0/1
CCCAGTGATTGTGAAAGAAATCTCTGTGTCTTGTGAATTA
+HWI-EAS443:3:77:136:1749#0/1
abb`¥W_a`^aW`[__VR`_`]^`^`_AY`S`^¥PV^YY][Y
@HWI-EAS443:3:77:1382:132#0/1
TTGGTGCATTCACTATGAGAGCAAAATCGTCGGATGATTG
+HWI-EAS443:3:77:1382:132#0/1
`bbba]aMbbay[]Ya`Xb[aaaa[`WMYa`_a_aaT____
@HWI-EAS443:3:77:1396:1142#0/1
GTTCTGTTTACTGTGTCCATGGTGTATCCTGTTCCCTGTTT
+HWI-EAS443:3:77:1396:1142#0/1
a^M]^`¥[_QTX`WM[__WN`¥GYZN]ZU]_V^TU¥]UVT
@HWI-EAS443:3:77:144:394#0/1
AAAAATTCCAGCGCAAAATGCCATAAGCACCACATTCCT
+HWI-EAS443:3:77:144:394#0/1
a^SZX`^XT__ZMZ[WTU][TT[PUSSR`V^W¥RNQZ^R
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+HWI-EAS443:3:77:1455:1920#0/1
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@HWI-EAS443:3:77:1467:371#0/1
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+HWI-EAS443:3:77:1467:371#0/1
^bbbbbbbbbbabbbbbbbbabbbbbbb``bbbbababbbba
@HWI-EAS443:3:77:148:170#0/1
GTCGACTTCGAGTCTGGACGGATCAAGAAAGAAGAGTTCT
+HWI-EAS443:3:77:148:170#0/1
`[aZU`__^¥`_Z`__RYW^ZRV[UL^RX_ZWZW]ZXWWB
@HWI-EAS443:3:77:1508:738#0/1
GCCCCGATTGATGCCAGGGTCGACTTCGAGTCTGGACGGA
+HWI-EAS443:3:77:1508:738#0/1
abbb```a`bbbbbaa`a`V`baaaba]ab`¥baaa]¥``
@HWI-EAS443:3:77:1515:815#0/1
GTGTTCTGTTTACTGTGTCCATGGTGTATCCTGTTCCCTGT
+HWI-EAS443:3:77:1515:815#0/1
a_a_a`ba_aa^Zaa]b_____aaa¥`U]_¥Y[[^_V¥¥`¥
@HWI-EAS443:3:77:1581:1788#0/1
GGCCTCTTCTAATAGATGGCACAGCATCACTGAGTCCTGG
+HWI-EAS443:3:77:1581:1788#0/1
a]baabbabbbabbbbbabbbba_bb_babbbababYbab

@HWI-EAS443:3:77:1663:1452#0/1
CAACTGCATTGGCCAACACCATAGAAAGTCTTTAGATCGAA
+HWI-EAS443:3:77:1663:1452#0/1
`¥ZZab_ab`^`ZZ_HVaRabTb`[¥XPabaaaa¥WQ]`
@HWI-EAS443:3:77:1667:617#0/1
GTCCTCCATCTGATACTAATAGCCCTACCTTTGATTGGGT
+HWI-EAS443:3:77:1667:617#0/1
a_S__YWY`U)`S^[OWa_]_`RKUU[NQ_[`_X][RULQ
@HWI-EAS443:3:77:1682:1669#0/1
CATTACCACAGCATTGTTTACAGAATCAATCTCTTTATGA
+HWI-EAS443:3:77:1682:1669#0/1
ab`babbaababbbbababb`bbbb_baa¥`abba`bbb
@HWI-EAS443:3:77:1692:1861#0/1
GTATCTGTAGTCTTTGATGAACAATTGAAGAGCCATCTGG
+HWI-EAS443:3:77:1692:1861#0/1
aZ_a_ab]]a__`aaa`_aZ_[`[_^`_a_Y_[U^VVU_^
@HWI-EAS443:3:77:1692:390#0/1
CTCAAGAATTCCCCTTTGGCTTGTGTTGAGAATAGAACGA
+HWI-EAS443:3:77:1692:390#0/1
ab`bbbbbbba^ZXbabaX_a`Y_bba``_aa^`X`aIab
@HWI-EAS443:3:77:1742:201#0/1
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+HWI-EAS443:3:77:1742:201#0/1
abbbbbbbbb`bbbbbbbbbabab`bb``aaX``b¥_a
@HWI-EAS443:3:77:1760:684#0/1
GACGGATCAAGAAAGAAGAGTTCTCTGAGATCATGAAGAT
+HWI-EAS443:3:77:1760:684#0/1
abaa`_a`aaaaaaaaa`b`a`a`a`a`_Va`aa__a`
@HWI-EAS443:3:77:1769:701#0/1
AGCTGATTCATTTACTCCAGACTCCAAAGCTGGGTAGC
+HWI-EAS443:3:77:1769:701#0/1
ab¥bbba_]¥aa_bb_a`a]aaa`a]_aaaYYa^abQ]__
@HWI-EAS443:3:77:184:947#0/1
ATGGGCTCCAATCATCCGACGATTTTGCTCTCATAGTGAA
+HWI-EAS443:3:77:184:947#0/1
aa`_ab_a_ZH^`a^_Ya^]a_W¥_``]X`[_W^W_^_
@HWI-EAS443:3:77:192:1839#0/1
CACTAACTTGCAGGTCCTGTAGAATCTGTCCACTCCTGCT
+HWI-EAS443:3:77:192:1839#0/1
`U``aaa^V[_VZ^Ya___Za[^X[_^¥V`_^_Y_[QQUU
@HWI-EAS443:3:77:215:1430#0/1
TGATAACAATGACCTTGGACCTGCAACGGCCAGATGGC
+HWI-EAS443:3:77:215:1430#0/1
```]bb\_Ubb[]\_b\_aZ¥IS]]YS¥X^a]W\_]`¥^TUVQ`  
@HWI-EAS443:3:77:271:354#0/1  
TTGCAACTACACATTCCTGGATTCCCAAGAGGAATCGTTC  
+HWI-EAS443:3:77:271:354#0/1  
SM^Z¥]aZ`S\_aba\_a]`ZUN[aaWaaXQQJZYU^\_LFV  
@HWI-EAS443:3:77:287:974#0/1  
TTTGTCCAAGATTGAGTATCGAGACTCCCAAGACCGTACT

+HWI-EAS443:3:77:287:974#0/1  
aba^\_bb` ` \_¥^^\_a^\_a\_aZWUJW¥a\_aY¥Z^W` ¥W^¥V  
@HWI-EAS443:3:77:292:578#0/1  
CTTCGAGTCTGGACGGATCAAGAAAGAAGAGTTCTCTGAG  
+HWI-EAS443:3:77:292:578#0/1  
aabbba\_aWbbbbbbaab`aaaa] `K` `a`aa^` `a`a`aa  
@HWI-EAS443:3:77:316:170#0/1  
GGGGCAATGAAAAGAAGCCAACTGGCAAATGTTGTGAG  
+HWI-EAS443:3:77:316:170#0/1  
aaaaa` ` \_`\_Y]\_\_\_\_\_¥`\_]¥Y]\_\_`\_]VY¥^P^\_XZ[Z  
@HWI-EAS443:3:77:321:1532#0/1  
GACGGATCAAGAAAGAAGAGTTCTCTGAGATCATGAAGAT  
+HWI-EAS443:3:77:321:1532#0/1  
^ba^^I\_`a¥abab`bba]]`aaaba`aaa]aaaaa`\_a]  
@HWI-EAS443:3:77:366:581#0/1  
GCAGACTTCAGGAATGTGAAGATTCCTGATATTGTATAAG  
+HWI-EAS443:3:77:366:581#0/1  
aaabaa`aaaa` `aaa\_\_a\_a\_`\_MTa\_a`\_a`[\_`a\_]`  
@HWI-EAS443:3:77:386:1805#0/1  
GCCCATCCCACCAGTATATTGTCTTGGTGTATTTCTTTTG  
+HWI-EAS443:3:77:386:1805#0/1  
aabbaababbbbaa¥ba`aba`baa\_` `¥^ab`aababba  
@HWI-EAS443:3:77:400:125#0/1  
CGGATGATTGGAGCCCATCCCACCAGTATATTGTCTTGGT  
+HWI-EAS443:3:77:400:125#0/1  
abbbabbbbbbbaaaaa\_¥b^ababba\_bbba`  
@HWI-EAS443:3:77:445:771#0/1  
GCTGTGGTAATGCCAGCCCATGGTCCAGCCAAAAGCATGG  
+HWI-EAS443:3:77:445:771#0/1  
[bbb]aXR¥aSa`a`]a\_I\_`\_U\_`V]` `W¥a\_\_[YW¥]  
@HWI-EAS443:3:77:460:757#0/1  
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+HWI-EAS443:3:77:460:757#0/1  
`b]b`bb]aaaabaa`babaaa`aa`aaaa`aa\_aaa\_a  
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TGTGGCTAATTTTAGCATGGAGCTACCCAGCTTTGGAGTG  
+HWI-EAS443:3:77:465:118#0/1  
ab\_aaaa^ [aaa`a`^¥aa^V` `\_\_P¥\_]\_¥¥`]U\_WZSX  
@HWI-EAS443:3:77:484:608#0/1  
TATTCGAGAAATTTTCCCTAGCAGTTCATATAGGAGACC  
+HWI-EAS443:3:77:484:608#0/1  
aa[ ` `bbb\_¥V\_baa^`\_a^^aa[^`\_aa\_\_a][WY] `T`  
@HWI-EAS443:3:77:497:2002#0/1  
ACACATTCCTGGATCCCAAGAGGAATCGTTCTATTCTCA  
+HWI-EAS443:3:77:497:2002#0/1  
^abaYYaaa]SZ`\_¥VZ`] ^ZYXSR]VaSHR]a`XWRW\_]`  
@HWI-EAS443:3:77:51:851#0/1  
AAAAATTCCAGCGCAAATGCCATAAGCACCATTCCT  
+HWI-EAS443:3:77:51:851#0/1  
\_`SY¥]J\_^` `^b[VNZ]\_abaaa^^` `¥`OGRRUJ]YWT

@HWI-EAS443:3:77:543:640#0/1  
CAGGGGATTACAAAGTCTTCCCCGATAATCATCATCCATT  
+HWI-EAS443:3:77:543:640#0/1  
ab¥JRYa\_aa`X^\_ZZX¥T`bb\_dWXZYZaXG¥MW[X]\_^  
@HWI-EAS443:3:77:592:1923#0/1  
AGCTGATTCATTTACTCCAGACACTCCAAAGCTGGGTAGC  
+HWI-EAS443:3:77:592:1923#0/1  
abb^S`WaY`b`X`a\_b`a\_]` `][\_aab[aYaa^G`T\_  
@HWI-EAS443:3:77:593:1240#0/1  
GTGGGATGGGCTCCAATCATCCGACGATTTTGCTCTCATA  
+HWI-EAS443:3:77:593:1240#0/1  
a\_baa`abbababaababbaaa^a``aaaaaaaaaaaa`a  
@HWI-EAS443:3:77:70:1223#0/1  
CTGTCCACTCCTGCTTGTATTCCCTCATGGTTTGGTGCAT  
+HWI-EAS443:3:77:70:1223#0/1  
aababb`bXb^H]b\_P[NO\_] [b`^H]OSMJL[a^`\_X]  
@HWI-EAS443:3:77:722:1293#0/1  
AATTGAAGAGCCATCTGGGCCGTTGCAGGTCCAAGGTCAT  
+HWI-EAS443:3:77:722:1293#0/1  
aaaa`abaa\_aaaa`a`\_\_a\_\_\_a^`a\_R¥^\_¥`^Y]\_\_  
@HWI-EAS443:3:77:747:141#0/1  
CTCGAATAGATTGCAGCACTTCTGGTACATCTGTTCATCC  
+HWI-EAS443:3:77:747:141#0/1  
aba`abbbbbbbbbbbbaabbbba¥b`aa]\_a\_a`aa\_\_  
@HWI-EAS443:3:77:773:1712#0/1  
ATTGAAGAGCCATCTGGGCCGTTGCAGGTCCAAGGTCATT  
+HWI-EAS443:3:77:773:1712#0/1  
\_Z]aaa`a\_aaaaa\_`\_\_\_\_\_a^\_\_`\_\_^Wa]^VVYW`\_^\_  
@HWI-EAS443:3:77:806:1972#0/1  
GTTCGAATCTTCATTCTTTTACTCTCGAACATGTACCCTT  
+HWI-EAS443:3:77:806:1972#0/1  
`[]`a\_``aaaabaaba[¥`baaa`]W\_]`a¥YZaaba\_\_  
@HWI-EAS443:3:77:825:168#0/1  
AAAAACAAAGACTGAATAAGAGAGGCTATCTAATAAGAGC  
+HWI-EAS443:3:77:825:168#0/1  
aaa```aaaaa`abaaaaaaaa`a`\_`[JLXW[WXYBBBB  
@HWI-EAS443:3:77:88:970#0/1  
GGGAAAGTGGACGACAAACACAGAGACTGGTGCACCCAG  
+HWI-EAS443:3:77:88:970#0/1  
\_`aabb^\_bababaa\_QZ^aa^¥^aXY`^ZFV^aY[`YUZ  
@HWI-EAS443:3:77:897:358#0/1  
CCAGGAATATTTGAGAATTCATGCCTTGAAACAATGGAAG  
+HWI-EAS443:3:77:897:358#0/1  
aabbbabbbbbbbbaabbab\_aaaa`aabbaa`babb``aa  
@HWI-EAS443:3:77:913:91#0/1  
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+HWI-EAS443:3:77:913:91#0/1  
aZ¥^]LGL[^00SSTGQNSZZVPSWYSMPUZRUVVVZW  
@HWI-EAS443:3:77:933:73#0/1  
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+HWI-EAS443:3:77:933:73#0/1  
R¥^b¥\_a]aUba\_I[Q`ba[aaaaa\_W]V^PWY]`^0TZ  
@HWI-EAS443:3:77:944:810#0/1  
GGGCAATGAAAAGAAGGCCAAACTGGCAAATGTTGTGAGA  
+HWI-EAS443:3:77:944:810#0/1  
VaZ\_]\_^a¥¥`Y¥Z¥\_bbb\_[Zbb\_¥` `b\_\_ZaSa¥¥`  
@HWI-EAS443:3:77:945:356#0/1  
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+HWI-EAS443:3:77:945:356#0/1  
` `abb`Za]bbbbbb\_baZbbbbbbbababbb`aabaabbb  
@HWI-EAS443:3:78:1059:300#0/1  
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+HWI-EAS443:3:78:1059:300#0/1  
aaaaa\_a\_aa[\_\_\_aa`[WY]]\_Z\_[YY\_[^^]a\_\_]YVZ  
@HWI-EAS443:3:78:1062:1233#0/1  
GAGGAATCGTTCTATTCTCAACACAAGCCAAAGGGGAATT  
+HWI-EAS443:3:78:1062:1233#0/1  
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+HWI-EAS443:3:78:1092:921#0/1  
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+HWI-EAS443:3:78:1108:97#0/1  
aaa`aaa^`a^`\_a`\_\_\_aa^b^aa]^Z\_^`a\_^aW]aZ`  
@HWI-EAS443:3:78:1122:93#0/1  
AGGCTATCTAATAAGAGCACTGACATTAATACGATGACC  
+HWI-EAS443:3:78:1122:93#0/1  
\_ba`ba` ``\_abYX¥Ta[^¥aaS¥^aaa\_^a\_\_\_\_]`\_^XV  
@HWI-EAS443:3:78:116:320#0/1  
CTAATAAGAGCACTGACATTAATACGATGACCAAAGATG  
+HWI-EAS443:3:78:116:320#0/1  
]a¥Z]\_abYb`Yaab]`aaaa\_\_Y\_`bYa[TQ\_V^\_[ ]\_  
@HWI-EAS443:3:78:1170:917#0/1  
ACATGACCAAGAAGATGGTCACGCAAAGAACAATAGGGAA  
+HWI-EAS443:3:78:1170:917#0/1  
a`Z`aa`aa`aa`a\_^aa]a^]`\_\_\_\_]`]^]\_\_`^`\_] ] ] ]  
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+HWI-EAS443:3:78:1185:1071#0/1  
a\_`a\_`a][ ] ``UWaa`\_\_\_\_`\_\_\_\_^]\_QFLZTZQY[TP



+HWI-EAS443:3:78:1465:659#0/1  
aa^T^a^\_TZ^`^¥[\_]\_TU^`b\_W¥UU[\_V]P`X`]X\_X^  
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+HWI-EAS443:3:78:1533:1240#0/1  
XYX¥\_\_Y`[aYDYOY\_aXT\_`a][ZH]Y\_`\_b```]Va\_¥  
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`\_a`¥^\_ZEVa[¥¥``\_ZZaaZ````][X]```XS^`PS  
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+HWI-EAS443:3:78:201:882#0/1  
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+HWI-EAS443:3:78:211:1184#0/1  
ab`YV¥a`V`aX`\_`a\_\_WHT]```[X^X\_\_YYS[WYYXX  
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+HWI-EAS443:3:78:231:1222#0/1  
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GTCCTCCATCTGATACTAATAGCCCTACCTTTGATTGGGT  
+HWI-EAS443:3:78:241:202#0/1  
aR`Z[\_\_\_\_a[``\_U^[Z\_^`ZX[\_¥RYW]^\_]W^X]^\_S[V

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+HWI-EAS443:3:78:255:1769#0/1  
abaaa`^a\_\_\_a^\_\_\_^YZZ\_] [\_]^Y`]\_\_\_^^ZWXX^  
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+HWI-EAS443:3:78:267:452#0/1  
^\_`aba`^`^`¥\_\_\_X¥]\_\_\_U`abbaaaa\_bYaa]aaa  
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+HWI-EAS443:3:78:287:665#0/1  
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+HWI-EAS443:3:78:307:694#0/1  
ab^aaa\_a`a`bZY`aa`a\_ba^\_a\_]^^aZ`a`^\_]UX  
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+HWI-EAS443:3:78:311:1685#0/1  
aaaaaaaa`\_\_][\_``a\_\_¥^`^`\_]\_^\_]SW`\_]a  
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a`^a^aa][aaYaa]aa^^`^^^\_`\_\_\_¥`aaZ¥¥`\_\_`  
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+HWI-EAS443:3:78:427:666#0/1  
a\_aaaaa`a]a`a`\_`\_`\_`^a`^]a`Y¥\_\_\_]^^\_V^^  
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+HWI-EAS443:3:78:449:1543#0/1  
¥ZVWaSZ^`a[TUQSPX¥U\_¥NZaXUS[0^`\_Z^`\_`^ZTO  
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+HWI-EAS443:3:78:463:343#0/1  
^aba`aaaaaa`aY^`aaa\_\_R]0a\_Xa`¥`\_`W`a`^`W\_  
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+HWI-EAS443:3:78:474:906#0/1  
aaaYaa^baa`aaa\_\_aa`a`^¥]\_^a` `` `\_\_^¥^^^][  
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+HWI-EAS443:3:78:501:233#0/1  
`]b`¥baZ][\_a`Z\_a\_\_a¥\_Z`^STX\_\_\_\_\_¥\_¥^\_]\_^  
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+HWI-EAS443:3:78:521:552#0/1  
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+HWI-EAS443:3:78:580:140#0/1  
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+HWI-EAS443:3:78:580:973#0/1  
a`\_aab`aaa[aa`aaa^\_\_aZ`^\_]`^`\_`¥S]`]]\_YWU  
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G]U\_[````]YY¥^^`a`aaa¥ab`bb`¥¥``b\_¥\_ba``  
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+HWI-EAS443:3:78:58:1661#0/1  
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+HWI-EAS443:3:78:60:965#0/1  
a\_aaa`aaa^`^aa`aaaaaaaa`\_aa`aa\_a`\_\_a\_a\_  
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+HWI-EAS443:3:78:633:35#0/1  
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^Y^aV`aaZ^[aaaa` `b`a¥]`aaaab`aaY[[]a\_P]¥b  
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aaabbba^X^]aaVaa^]a\_`\_¥a^a``\_\_\_\_\_a`a^I¥\_a  
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+HWI-EAS443:3:78:719:103#0/1  
aa^\_a`aa^aaaa\_`^`\_aaaa^aa\_¥\_`^`\_[^UW¥]ZU[`  
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+HWI-EAS443:3:78:721:401#0/1  
aa\_aaaabaaa\_a```aaa`a`^¥^^a`\_a``\_a[a\_YUW  
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+HWI-EAS443:3:78:73:1940#0/1  
aXZ`] [¥^[\_VUY]a\_Z\_\_]]^^`^^`]XLJQ^VWWSM¥V  
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+HWI-EAS443:3:78:759:185#0/1  
a`¥WZaaaaaab¥`\_`a`\_Y]\_`^^`^^W^U\_¥\_\_Ta]^^¥  
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+HWI-EAS443:3:78:770:463#0/1  
aabbabaa```aa``aaa`^aaa`aa`a`a]aaba^aaa¥  
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CTATTCGAGAAATTTTTCCCTAGCAGTTCATATAGGAGAC  
+HWI-EAS443:3:78:777:1075#0/1  
a\_Y]]^^[\_R[\_XTZSVT]WaZ^\_aG¥OY`^][N[[YXR  
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+HWI-EAS443:3:78:795:1384#0/1  
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+HWI-EAS443:3:78:847:1531#0/1  
X`a¥T¥`aa``QH\_a\_`X^]\_`a]ba\_a^Y]]`])`aR``a  
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+HWI-EAS443:3:78:85:1460#0/1  
aa``]a`\_``\_``\_ZVX`]^]\_¥0a^]YX]YSRV^\_]X]Y  
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+HWI-EAS443:3:78:870:1818#0/1  
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+HWI-EAS443:3:78:905:1121#0/1  
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a\_`\_]\_N]a]a\_` `ab`a`SVZWWX`VPaaPT[S[ `Z^Y]  
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+HWI-EAS443:3:78:937:902#0/1  
\_aaa[W¥aZ[ `H[a\_Y\_aaa¥[ ]]aW[UY]Wa` ` `\_[\_\_  
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+HWI-EAS443:3:78:938:188#0/1  
a`a¥baaba`\_a`\_a\_]\_aa`Y`]XV\_` `^¥\_]\_^]  
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+HWI-EAS443:3:78:941:1284#0/1  
a\_[X¥\_a^`¥`a^a^]V^Z]`Z\_[[^`\_^`\_XY^\_^[ZXN  
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aaaa`^`a]ba` `baaaaa`aaaaa^\_\_aaaaa`a^a^  
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` ` `abab`aa\_b^¥a`a`aa`a]]bab\_a\_b\_^a`a\_\_\_\_  
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aa` `a\_aaa\_a]a\_`a` `\_[a\_a^]\_[aa[¥\_]\_\_\_\_T  
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+HWI-EAS443:3:79:1014:477#0/1  
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@HWI-EAS443:3:79:1020:1955#0/1  
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+HWI-EAS443:3:79:1020:1955#0/1  
abaaaaabb`aaa`\_a`a\_a\_aa`a`\_a\_aa`\_a`\_]  
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ab^¥^`a¥V]]][a`[^X`^^\_Z¥`Y]`^`[W`T^ZZ]¥  
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+HWI-EAS443:3:79:1180:18#0/1  
Y¥Y\_]a]]Z¥^]¥`^\_a\_T`\_`TV¥``[a]H[\_R^]R¥VF  
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+HWI-EAS443:3:79:1202:939#0/1  
Z[\_V`\_`W[¥`\_`\_`][[\_`\_`]¥^a[NZ]0^a`\_`Z¥^`YX`a  
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`]a`^`^XZ]¥T^S^`\_`\_`\_]T][¥]¥¥SY¥^UZS^[YW  
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+HWI-EAS443:3:79:130:929#0/1  
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+HWI-EAS443:3:79:1431:854#0/1  
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+HWI-EAS443:3:79:1566:1768#0/1  
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+HWI-EAS443:3:79:1582:1254#0/1  
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+HWI-EAS443:3:79:1593:1934#0/1  
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+HWI-EAS443:3:79:1622:1988#0/1  
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+HWI-EAS443:3:79:1678:456#0/1  
aaa`aaaY` [a\_Waaaab[\_Z\_¥aa\_^aXUYbV^\_^¥aa  
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+HWI-EAS443:3:79:1706:894#0/1  
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+HWI-EAS443:3:79:176:705#0/1  
aaaa`aaaa`Z]\_`\_`\_`UY`\_]` `[[^]Y\_YVY]XN[\_

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+HWI-EAS443:3:79:207:133#0/1  
abb\_¥\_TY`aa`\_Paaa`]JZJQ\_`\_^`^^Z\_Z^```a^[  
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+HWI-EAS443:3:79:216:275#0/1  
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+HWI-EAS443:3:79:232:731#0/1  
¥b^`\_`ba^¥a]^Y^\_ab``^^Va`Z[^`^a`VZ`aab\_a` [  
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+HWI-EAS443:3:79:233:653#0/1  
a]aaaa[Z]aaaa`a````\_¥]aa\_`a````\_`\_]`\_\_[\_^\_  
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+HWI-EAS443:3:79:237:1151#0/1  
a\_V]\_``[I[[W¥\_Y\_[PY`¥]G¥VY[¥`\_T^TTX[^`]]  
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aa]Z\_U¥`WU¥\_[¥Y\_`^]]¥]UL[^[YW]W[T]U[SORJ  
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+HWI-EAS443:3:79:274:113#0/1  
`a`¥b^aabbaaa[\_a\_^a^a`Yaa`Xa^^^]a^\_]\_^\_  
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+HWI-EAS443:3:79:304:310#0/1  
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+HWI-EAS443:3:79:415:1254#0/1  
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+HWI-EAS443:3:79:442:723#0/1  
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+HWI-EAS443:3:79:499:1485#0/1  
]aaIO¥[X\_SaUY[]V^[^\_aa]```V]a`ZT\_\_ZUZ¥]T  
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+HWI-EAS443:3:79:500:1634#0/1  
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+HWI-EAS443:3:79:515:803#0/1  
\_a`aa^a`a`a\_Z[^\_]\_a\_] []aa`Z¥¥]W]\_Q^XUHW¥  
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+HWI-EAS443:3:79:531:613#0/1  
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+HWI-EAS443:3:79:535:1812#0/1  
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+HWI-EAS443:3:79:567:1819#0/1  
^aa`b\_\_b``aab]VaVbbbbaaaa`aVS¥`¥ab]]a^aaa  
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+HWI-EAS443:3:79:575:710#0/1  
abbab`¥\_aaaaa]aa``aaaaaa`\_aa\_a`aa\_\_[\_`\_\_a  
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+HWI-EAS443:3:79:582:1210#0/1  
TX^¥U\_\_\_`^[V\_Y`aZ\_^Y\_¥\_P]¥]aa\_[W\_\_\_bb\_¥Z  
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+HWI-EAS443:3:79:596:562#0/1  
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+HWI-EAS443:3:79:599:397#0/1
a[RTYbbNbaaa]a_a]¥__`a^`_a`_a``Y]_^_]_[
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+HWI-EAS443:3:79:59:147#0/1
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@HWI-EAS443:3:79:607:1639#0/1
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+HWI-EAS443:3:79:607:1639#0/1
__VXa¥aa__][^`a`_a`_X[`¥aa)`a`_^`^^YYT`
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+HWI-EAS443:3:79:61:804#0/1
abbab`R¥a`S^a`)]`a[```aaa`a_]¥a^Q¥X[Z^]
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+HWI-EAS443:3:79:642:91#0/1
_STY_babbbbaaba_aa_aba`_b^b`_a`aa[R_]_a

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+HWI-EAS443:3:79:701:1884#0/1
a]aa]]RZZ_bbbaba_b_abbaaa]a_]`_[Y_`_a__
@HWI-EAS443:3:79:710:1471#0/1
GCTAATTTTAGCATGGAGCTACCCAGCTTTGGAGTGTCTG
+HWI-EAS443:3:79:710:1471#0/1
ab^^aaaaabbbaaaaaaaaaa`^]aaa]¥`_]a^__`
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+HWI-EAS443:3:79:724:1077#0/1
_b^_ab`abaab^_aaaaaaaa^`aa_`aaa`]W`]T[_V
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+HWI-EAS443:3:79:750:192#0/1
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+HWI-EAS443:3:79:882:816#0/1
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+HWI-EAS443:3:79:916:149#0/1
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+HWI-EAS443:3:79:91:589#0/1
¥WS_bb^`_¥W`_b^LOX¥_¥XX_Y_]_a¥^_XXX[QKT
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+HWI-EAS443:3:79:943:1803#0/1
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+HWI-EAS443:3:79:99:908#0/1
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+HWI-EAS443:3:7:1013:1260#0/1
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+HWI-EAS443:3:7:1015:34#0/1
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+HWI-EAS443:3:7:1084:1589#0/1
abb]b]aa]XU^_]^^aa_`[_`a^`_a`V¥P]`UU^^_¥
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+HWI-EAS443:3:7:112:1009#0/1
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+HWI-EAS443:3:7:1146:1895#0/1
a`a``bbaaba`baaaa_a^aaX`^`_¥aa_aX]_T_ZX`
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@HWI-EAS443:3:7:1175:196#0/1
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+HWI-EAS443:3:7:1175:196#0/1
aaa`_a]Y^W]`_`¥R_]¥ZUZ^`]^`_VT¥Z^ZZSXY]
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@HWI-EAS443:3:7:1189:897#0/1
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+HWI-EAS443:3:7:1189:897#0/1
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aaa`Z[___`_a____`]a_Wa_____¥]QZW_Z]]X_X`^¥
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+HWI-EAS443:3:7:131:1474#0/1
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aa_aaaaaaab`_```aaa`Z_V__¥_^``_X¥aT``^_b
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+HWI-EAS443:3:7:1358:538#0/1
aaOWN``]W`^`b`^X`a``ZZY_[_]a_`_[Y[_]SQR
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@HWI-EAS443:3:7:1423:1535#0/1
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+HWI-EAS443:3:7:1423:1535#0/1
¥ba¥^aa`^]T``^`Z^a_¥N_¥Y_^Va¥TU]`a[P¥UST
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+HWI-EAS443:3:7:1474:867#0/1
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¥```Jab0_aaaa`aYaabaa`]WaR^aa_`a¥X[_]VaZ
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+HWI-EAS443:3:7:1500:1592#0/1
¥^aa[aa]0`^P`X[]X`X_YLU]_Xa_aNY_^^^QYUZ
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+HWI-EAS443:3:7:1518:799#0/1
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¥¥¥T¥abXU]KbV_¥]¥_UZQYP[`]Y``]aL_`W[baYX
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+HWI-EAS443:3:7:1609:838#0/1
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+HWI-EAS443:3:7:1622:856#0/1
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+HWI-EAS443:3:7:1679:1843#0/1
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+HWI-EAS443:3:7:1679:923#0/1
a`^Zb]``babbbZ[a`a^D]````WWF^a[aV^S¥`[¥R
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+HWI-EAS443:3:7:1704:551#0/1
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+HWI-EAS443:3:7:1717:977#0/1
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+HWI-EAS443:3:7:1718:44#0/1
aY^`^¥^b^aa_^)`aa`WV`RGY`]^`PX^^YYTPWQ]^
@HWI-EAS443:3:7:1762:419#0/1
GGGAGCTAATGGATGATGATTATCGGGGAAGACTTTGTAA
+HWI-EAS443:3:7:1762:419#0/1
Zab[_J_a`bbbb]ba]ba_a]_X_a]a_T^PDXX]]R_B
@HWI-EAS443:3:7:1781:849#0/1
TGAAGAATCCCACCCAGGAATATTTGAGAATTCATGCCTT
+HWI-EAS443:3:7:1781:849#0/1
ababaaaa_¥_a^_X`aa__a`_`aa__]_¥S^]_ZX^^
@HWI-EAS443:3:7:1787:1376#0/1
TTCTGTAAACAATGCTGTGGTAATGCCAGCCCATGGTCCA
+HWI-EAS443:3:7:1787:1376#0/1
aa`ab_aaa__aaZ^`W`W`__V¥T¥^¥UT^^¥UKRWB
@HWI-EAS443:3:7:190:620#0/1
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+HWI-EAS443:3:7:190:620#0/1
Z[USa^`TT`T^`TW¥U___TH]XWS``^WYdUFMZUa`]
@HWI-EAS443:3:7:192:1249#0/1
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+HWI-EAS443:3:7:192:1249#0/1
aba``a[`^a^aaaaaaaaaa^¥aaa^KZ]][[_W¥TZ^_

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+HWI-EAS443:3:7:193:509#0/1
aaaY^`aaa_aaa__`_a_a_`__`]a]_`___a¥_^a^`
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CGACCCTGGCATCAATCCGGGCCCTAGACACCATGGCCTC
+HWI-EAS443:3:7:202:718#0/1
`¥¥0]]^^`_]`XPTX^I`^U[SNQW^V]¥¥`ZQBBBBB
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+HWI-EAS443:3:7:216:240#0/1
abbbabaabaaaaaaaaaba_aaaaa`aaaaa_____`_^
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+HWI-EAS443:3:7:265:200#0/1
]_a^`¥`ba_aabbbabaa`_aab]b_[a_YZR]^a^TH^
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CAATCCGACTCTACTTTTCCTAAAAATCCAGCGCAAAT
+HWI-EAS443:3:7:291:75#0/1
aba`Q^b[_aabaabaa`_aaa`a_a__`^`a_a¥^]W^`
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+HWI-EAS443:3:7:31:833#0/1
a_aa`[_aaaaa`_a`aa[a`_____][W¥`_¥`_¥`_`
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+HWI-EAS443:3:7:340:1271#0/1
aa_`Tba]````bWP__`]Z]a[_X`a`^PT_]`[[[aa`_`
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+HWI-EAS443:3:7:343:1292#0/1
a_abbbab`_b[baaaabab````aaa`abaa__a]a^Na^
@HWI-EAS443:3:7:371:1635#0/1
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+HWI-EAS443:3:7:371:1635#0/1
a]aaaaa`aa`aa`Saa[TZ]Z_`_XY^`_X^a_UMPW]
@HWI-EAS443:3:7:423:1192#0/1
AAAGAACAACATGATAAACAATGACCTTGGACCTGCAACG
+HWI-EAS443:3:7:423:1192#0/1
abaa`aabaaaaaaaa_aa^a_`````[_`_`^`_WZ_a¥`_`^Z`_`
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GAATAAGAGAGGCTATCTAATAAGAGCACTGACATTAAT
+HWI-EAS443:3:7:431:1771#0/1
I_abbbbbba^`^b`Y_Y_`[_`X^aTq]_`]WYJ`W`a`_`
@HWI-EAS443:3:7:437:194#0/1
GGGGCAATGAAAAGAAGCCAAACTGGCAAATGTTGTGAG
+HWI-EAS443:3:7:437:194#0/1
Zaaa]GObaZ^`_a]W_`[R[S^XQ_WNY]SZ^]Y]W_`^`_`
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+HWI-EAS443:3:7:439:1261#0/1
SN¥[`a`__abZZ^ba_`a[^_]V`babXab_`^b`_ba
@HWI-EAS443:3:7:455:1516#0/1
GAAACATCCTGAGCATGGCACCCATAATGTTCTCAAACAA
+HWI-EAS443:3:7:455:1516#0/1
aaaaaaaaaaba_aaa_`aaa_`a^^`__`__W`]
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+HWI-EAS443:3:7:46:1130#0/1
a`a^a`aab_`b`aaaaaa_aabaa`aa^`aaaa`a_
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+HWI-EAS443:3:7:472:497#0/1
ab]aa_a_a`^Yaaaaa_[^``__a`a`a^__Z]X__Z
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+HWI-EAS443:3:7:475:60#0/1
a`aba_`Y]]aa_`^]aa_]`aW_Q]`^]Z`R_W¥L]Z^
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+HWI-EAS443:3:7:514:1631#0/1
a`LQ`aa_`aW__`a^`a`__^RX_a^_]__W__^_]_^W
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a`Ha¥Z¥[a`V`aaaa_¥a``[aZ_QaUM[_ZUaSSGL¥B
@HWI-EAS443:3:7:59:1172#0/1
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+HWI-EAS443:3:7:59:1172#0/1
aaaa`a_aaaaaaaaaJa^__aXW_[U__Y_^_¥]^]]_U
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+HWI-EAS443:3:7:627:1756#0/1
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@HWI-EAS443:3:7:658:429#0/1
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+HWI-EAS443:3:7:658:429#0/1
_b_bb`aabb___`^aaaaa__^aaZaZa``^`^`^]`¥__
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CGGATCAAGAAAGAAGAGTTCTCTGAGATCATGAAGATCT
+HWI-EAS443:3:7:671:1333#0/1
U_¥U¥L^`^`^UT__[`¥aQ¥`b`[ba`_`^LZb[¥¥_RBB
@HWI-EAS443:3:7:675:814#0/1
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+HWI-EAS443:3:7:675:814#0/1
aaaa]_aaaaaaaa_a`aa_a`]a_¥a`a[_¥_ZaXU`ZU

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a`baaa_]`Waa^a_aa`Xa]^]a_U`^a^]a]_aV^a
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+HWI-EAS443:3:7:796:885#0/1
abaa]aab]baa^Y^`a[``¥_a^P]Zaa]_^a[_^¥^XG
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+HWI-EAS443:3:7:801:1827#0/1
aab_b_`bbbbbabaaaaaab_aababb_aa`a``a^H`
@HWI-EAS443:3:7:814:661#0/1
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+HWI-EAS443:3:7:814:661#0/1
aa`XY`aaaa¥a¥```a`a__aaaa_aa_`a]`^^^]`^_
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+HWI-EAS443:3:7:855:1182#0/1
W`aa`¥a`a]```a`a]^aa`a_]__X`Za__aQa_
@HWI-EAS443:3:7:901:1002#0/1
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+HWI-EAS443:3:7:901:1002#0/1
Y^`Y^^^bba_`¥a`a```_[Y`¥a`_]¥`[RTZa`a`bY
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+HWI-EAS443:3:7:905:1494#0/1
a_a`aaWa`aWba_^a`a_a^aa`]^`a^a]_____^^_`^B
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+HWI-EAS443:3:7:954:741#0/1
V¥aabb^V^bbaV`^]a`^baN¥__]b`b`a]a_^¥__ab
@HWI-EAS443:3:7:977:111#0/1
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+HWI-EAS443:3:7:977:111#0/1
aaa^_a[^a_a_¥`_`a¥^¥a]^`^X^Z_X^`U^X^V_^
@HWI-EAS443:3:7:977:413#0/1
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+HWI-EAS443:3:7:977:413#0/1
aaaa`_`UW_aXa___^^`a[X_^`^^[aZZ_Z^^X]SU]
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+HWI-EAS443:3:80:1029:1509#0/1
aa`aaaa]ab``aUaa¥`Za¥_aaVa_^[[```[_aa¥_
@HWI-EAS443:3:80:1043:259#0/1
ATGGGCTCCAATCATCCGACGATTTTGCTCTCATAGTGAA
+HWI-EAS443:3:80:1043:259#0/1
^a_Z[_bbbb^a`¥Y¥[^Z^Zaaaa_T^S`Z¥]^]U`_
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@HWI-EAS443:3:80:1158:1610#0/1
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+HWI-EAS443:3:80:1158:1610#0/1
aba_a`aYaaa_aa`_aXaa`_a`^_S]_R`_]`Y]]]X
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+HWI-EAS443:3:80:1181:1823#0/1
aabRb`U_a[bab[[baa_bbaXa`aU[bb`_]Y]T_¥aG
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+HWI-EAS443:3:80:1208:1098#0/1
a_aaa`__a`^]a_a`_`^`^`Z`^^W]^`_Z_XV¥`^
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+HWI-EAS443:3:80:1245:619#0/1
a]ZY^_VZ`a^`_a^__[`Va`¥^^`Y_WU^^aV__]a¥¥
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+HWI-EAS443:3:80:1302:235#0/1
I_babUabbb`Wa_¥I^`b¥a¥¥]Z_W¥a¥b¥`abb`]Y`
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GAACAACATGATAACAATGACCTTGGACCTGCAACGGCC
+HWI-EAS443:3:80:1318:1488#0/1
^V`Ya_aba]_WW^ba`]_Q_aaba¥_ba_aa`^a_aZKL
@HWI-EAS443:3:80:1406:931#0/1
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+HWI-EAS443:3:80:1406:931#0/1
abbbb`abbbabbbb`bababbbb`abb`^abbabab_`a
@HWI-EAS443:3:80:1431:1397#0/1
AGTAAACAGAACACACCAATACTCAGAAAAGGGAAAGTGG
+HWI-EAS443:3:80:1431:1397#0/1
abaaaaa__bbaaa¥`aaba]^T`a`aa_a]^`^`Wa[a_
@HWI-EAS443:3:80:1436:1768#0/1
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+HWI-EAS443:3:80:1436:1768#0/1
aZ`S^^Ya]S[^¥TWX__[GO]WU¥PP[^Z_ZQI_WWURZ
@HWI-EAS443:3:80:1445:1969#0/1
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+HWI-EAS443:3:80:1445:1969#0/1
a[`S`^`_Za¥__¥WaZYaY¥¥V¥_¥Q`¥¥¥HY__U¥OJN
@HWI-EAS443:3:80:1450:674#0/1
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+HWI-EAS443:3:80:1450:674#0/1
`^ba_abaa``aaa]a^aba`ba`_Z[``]a[Z^`aZ`_
@HWI-EAS443:3:80:1453:250#0/1
CTTCTTTTAACTTGCCTCTCTCTGCATCTTTGGTCATCG
+HWI-EAS443:3:80:1453:250#0/1
Uaa[a^^aXa`abba_G¥Yba`O__WV_]Y]^YOT]YaP`

@HWI-EAS443:3:80:151:669#0/1
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+HWI-EAS443:3:80:151:669#0/1
aaaa`_aa`[[XY_`aa`_^YOYY^]__Z]]^]]^]]V
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GTTGATTCCCCTAACTTGCAGGTCCTGTAGAATCTGTCC
+HWI-EAS443:3:80:1535:1303#0/1
``_0^`^X)`[Za_¥T_a^X^^`^_V_`__a^_aZ^`RUV
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+HWI-EAS443:3:80:1538:1225#0/1
a[OX]a`R^a¥N¥X_U]]_Q`[U_N¥UZa^]^_Z_X_MF
@HWI-EAS443:3:80:1548:377#0/1
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+HWI-EAS443:3:80:1548:377#0/1
`_QXQbbVS_UaaIWP^UaSaba^a¥NXbabPUYaQ_a[Y¥
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+HWI-EAS443:3:80:1609:677#0/1
¥PNOJP[^`QYY[YYQZVZUM¥_S¥FX_HQ^[Z^BBBBB
@HWI-EAS443:3:80:1633:1034#0/1
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+HWI-EAS443:3:80:1633:1034#0/1
aaa^babaa`aa_Z`aaaa¥__`_VS)`a_¥¥]Wa_^`_`_`
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+HWI-EAS443:3:80:1681:520#0/1
a]__¥aa_b_aaaT`^a`^`^_U^N^_]`]^a_^Q00U^
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TGTCAGTCATAAGAGATTGATTCTGTAAACAATGCTGTG
+HWI-EAS443:3:80:1701:1217#0/1
V]ab`b_¥ab_`aa]aTabbaba_a__a`aWa`aaX_aW[
@HWI-EAS443:3:80:1762:176#0/1
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+HWI-EAS443:3:80:1762:176#0/1
``_R¥`_UU]``)`_WZ¥[¥T_V¥TKT)`VX¥S`UPPKMSS
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GGTGTCTAGGGCCCGGATTGATGCCAGGGTCGACTTCGAG
+HWI-EAS443:3:80:1788:714#0/1
X_a]Za_baa]aa`^`^`bZ¥a¥a^][[^][[aVJ^_X¥Y]
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CAGCTGACATGAGTATTGGAGTAACAGTGATAAAGAACAA
+HWI-EAS443:3:80:185:1364#0/1
`T^aaaY]Z__a`W^a_ZY]a]YLW`^ZW][YZ¥X`[^`^¥
@HWI-EAS443:3:80:232:417#0/1
GAGGCTATGGCTTTCCTTGAAGAATCCCACCCAGGAATAT
+HWI-EAS443:3:80:232:417#0/1
U`ZV^bb¥[_aaZUUYEWW[V^ZZ]TQ^YQ^UFDWHRUZ
@HWI-EAS443:3:80:243:309#0/1
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+HWI-EAS443:3:80:243:309#0/1
¥V_aaa_aaaaaaaaa`a`aPa`^``____a_^`____]_X`
@HWI-EAS443:3:80:253:54#0/1
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+HWI-EAS443:3:80:253:54#0/1
^Y^aaS_¥¥__Q[___Y^TY]UETW_TPX][T_V[XYVSR_
@HWI-EAS443:3:80:319:64#0/1
GACAAACACAGAGACTGGTGCACCCCAGCTCAACCCGATT
+HWI-EAS443:3:80:319:64#0/1
aaa_```]V^_X`^`a^J^¥]QV]¥`_]NLTRTPP¥PU^
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GATTCTTCAAGGAAAGCCATAGCCTCTAGAACACAGTCTG
+HWI-EAS443:3:80:330:51#0/1
_aaaabbaaa``aaaa]_aaZaa^aa`_]^_^_X]a]^_a
@HWI-EAS443:3:80:333:1409#0/1
GGTGTCTAGGGCCCGATTGATGCCAGGGTCGACTTCGAG
+HWI-EAS443:3:80:333:1409#0/1
`Y¥`aY^^aaaa^`]a_a^a^_`a^^Wa[^Y__^V_]`
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GGGATTGAGGGATTACAAAGTCTTCCCGATAATCATCA
+HWI-EAS443:3:80:372:172#0/1
aaaa^]_aa[[^T^¥Q_MG¥X`[STZZGX[VLQW¥VVVV
@HWI-EAS443:3:80:37:1042#0/1
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+HWI-EAS443:3:80:37:1042#0/1
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+HWI-EAS443:3:80:402:81#0/1
aaa`a¥`aa`a`_a_ab]_T[a_aZZ^`Va¥Y^`_^`_T
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+HWI-EAS443:3:80:414:1355#0/1
a_aa_ab`aabaaa`baaUR_a^a]__aa`aaaa[a`__
@HWI-EAS443:3:80:418:995#0/1
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+HWI-EAS443:3:80:418:995#0/1
aa_`¥bba_aaa``a_¥a]YZ[^`[R¥^`_V`Y`_`_Z__
@HWI-EAS443:3:80:458:707#0/1
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+HWI-EAS443:3:80:458:707#0/1
a`a__aYa`_a``¥___^``aYa¥¥¥_[Z_V¥¥Z[_¥U^¥
@HWI-EAS443:3:80:488:809#0/1
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+HWI-EAS443:3:80:488:809#0/1
aaabaaaa^^a`[]aa`_^`_`^____a^a_¥`^^_]_]_
@HWI-EAS443:3:80:568:55#0/1
CATCATCCCAGGACTCAGTGATGCTGTGCCATCTATTAGA
+HWI-EAS443:3:80:568:55#0/1
aba`ab__¥¥a_``aaaa]aa`_^Z]N`^]_[_a__¥Z¥W

@HWI-EAS443:3:80:596:1207#0/1
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+HWI-EAS443:3:80:596:1207#0/1
abbab`a`a_W__aaU`¥a`aaa`_^_aa`a``__`[``
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+HWI-EAS443:3:80:615:1115#0/1
aa`aaaaaZba_a[baba`a`][_^_I]____`a__^`
@HWI-EAS443:3:80:630:1026#0/1
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+HWI-EAS443:3:80:630:1026#0/1
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+HWI-EAS443:3:80:632:793#0/1
]a]a`U^a`Y`aW^Y]¥__]S_XWRY^_¥Za^W^V^^`
@HWI-EAS443:3:80:648:1639#0/1
CTGGGCCGTTGCAGGTCCAAGTTCATTGTTTATCATGTTG
+HWI-EAS443:3:80:648:1639#0/1
_Ybb`¥b`aab^]ZW`b`Z_a`_`b]¥aaaY]U]¥`Y^
@HWI-EAS443:3:80:651:547#0/1
CTTGGGAATCCAGGAATGTGTAGTTGCAACGGCATCATAT
+HWI-EAS443:3:80:651:547#0/1
`]`a_¥aa`aa`a__aa]a]_a^_____a`_`^^a`_`
@HWI-EAS443:3:80:666:1405#0/1
AGCTGATTCATTTACTCCAGACTCCAAAGCTGGGTAGC
+HWI-EAS443:3:80:666:1405#0/1
_`aaab`babbbbbbb`baabaabbaa`aaaa^b__
@HWI-EAS443:3:80:786:1924#0/1
CTCCCCTATGGCACCTATATGTGTATCTGTAGTCTTTGAT
+HWI-EAS443:3:80:786:1924#0/1
aab`aaaaa_[b^0^aba`a_Z`a__a`W_¥M^a_dWa^
@HWI-EAS443:3:80:799:89#0/1
AGATAACAACCCACTTTCAAAGAAAAAGGAGAGTAAGAGA
+HWI-EAS443:3:80:799:89#0/1
a_a`]aaaa`_^`abba__aa`_^__aa¥`a]¥Sa__]
@HWI-EAS443:3:80:846:305#0/1
CACTAACTTGCAGTCTCTGTAGAATCTGTCCACTCCTGCT
+HWI-EAS443:3:80:846:305#0/1
abbbbbbaabbaba^aabbbaabbaa`ab_[aa`a_^[_a
@HWI-EAS443:3:80:899:1671#0/1
TGTCCCAGTGATTGTGAAAGAAATCTCTGTGTCTTGTGA
+HWI-EAS443:3:80:899:1671#0/1
_WW`ba__`Y_aa¥ZZZZ[S¥Ya[]_a`^U]]Y^WTPKX
@HWI-EAS443:3:80:902:1383#0/1
GGCTCCAATCATCCGACGATTTTGCTCTCATAGTGAATGC
+HWI-EAS443:3:80:902:1383#0/1
`babbababbaa`aababa`aaa^`aaaaaaaa^a`aaa¥
@HWI-EAS443:3:80:992:577#0/1
GGGATGGGCTCCAATCATCCGACGATTTTGCTCTCATAGT

+HWI-EAS443:3:80:992:577#0/1
a`a)`aa[[]U^_TN]_ZUaa]a^¥_¥^_X_Q_U_U^¥Q
@HWI-EAS443:3:81:1002:168#0/1
GTCAATCCGACTCTACTTTTCCTAAAAATTCCAGCGCAAA
+HWI-EAS443:3:81:1002:168#0/1
a_^]¥a_¥_^^a_W_]_aa`ZZ`a`_`___ZY`_[^]]^
@HWI-EAS443:3:81:1025:1179#0/1
ATCCTTTAAGAAATCTATTAGCCTTCCTGACTCATTAGCT
+HWI-EAS443:3:81:1025:1179#0/1
__`__`b`¥_]_]_ba[`[a^]Y^^]]^_Y^aaaaaa]]`
@HWI-EAS443:3:81:109:449#0/1
GCAAGACTAGGGAAAGGGTACATGTTTCGAGAGTAAAAGAA
+HWI-EAS443:3:81:109:449#0/1
aaa^aa`a^aaaaaa__`¥aa`a___a``^aZa__a`_
@HWI-EAS443:3:81:1139:473#0/1
ATCCAGGAATGTGTAGTTGCAACGGCATCATATTCCATGC
+HWI-EAS443:3:81:1139:473#0/1
ab]^]^L^aaSa_[]Zaa_a````_`_X^a_]_`S^]^T
@HWI-EAS443:3:81:1152:419#0/1
AGAATCCCACCCAGGAATATTTGAGAATTCATGCCTTGAA
+HWI-EAS443:3:81:1152:419#0/1
aa`aaa]_a]_____^__`a`a`_`_`^^`_^]]`_^_Z
@HWI-EAS443:3:81:1175:1958#0/1
GGCTTTCCTTGAAGAATCCCACCCAGGAATATTTGAGAAT
+HWI-EAS443:3:81:1175:1958#0/1
a]IV^¥_aaYaa¥^^adM`Wa`P^`aa^_^W`aaaaa__W
@HWI-EAS443:3:81:1186:233#0/1
GCTAATTTTAGCATGGAGCTACCCAGCTTTGGAGTGTCTG
+HWI-EAS443:3:81:1186:233#0/1
a^aa_aaaaaa`a`a`a^`a^_V]`[```__^W`Z`^W_^
@HWI-EAS443:3:81:1192:703#0/1
AGCCCTTCTTTTTAACTTGCCTCTCTCTGCATCTTTGGTC
+HWI-EAS443:3:81:1192:703#0/1
aaaaaaaaabbaabaa`aa]_]aaa_a_aa`a^aaa`_`W
@HWI-EAS443:3:81:1273:1996#0/1
ATGGGCTCCAATCATCCGACGATTTTGCTCTCATAGTGAA
+HWI-EAS443:3:81:1273:1996#0/1
a`^]_¥_TX^a`TZP_[Y[Y¥X[WZ¥_NXV¥ZZZa^P]`P
@HWI-EAS443:3:81:1277:1169#0/1
AGAAATCAACCGCAGCAACTGCATTGGCCAACCATAG
+HWI-EAS443:3:81:1277:1169#0/1
]OPa¥X`a[NH]ZQZVHQZ_YL¥¥¥XMY]¥`[]`a[`R]X
@HWI-EAS443:3:81:1305:1805#0/1
AAAGTATACGAAACCTCTAATCTGCATCCCAGGTGTTGCG
+HWI-EAS443:3:81:1305:1805#0/1
`_`]V_]a`a¥`_`a^a^aa`¥W^]^[N[^a_Y`P¥¥Q¥
@HWI-EAS443:3:81:1342:160#0/1
GTGCCATGCTCAGGATGTTTCTGAACCACTCGGGTTGATT
+HWI-EAS443:3:81:1342:160#0/1
aW`_]aaaZWPXa_T_a]_¥]`[UTFRVPXY__^VX]G]Y

@HWI-EAS443:3:81:1362:1362#0/1
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+HWI-EAS443:3:81:1362:1362#0/1
`a]Yaa]Y^[^a`_aa]W]M¥aVVO_][]__`ZZ^_]_Z
@HWI-EAS443:3:81:1362:317#0/1
GCTAATTTTAGCATGGAGCTACCCAGCTTTGGAGTGTCTG
+HWI-EAS443:3:81:1362:317#0/1
aW`aaabaa`a__aa`_a^____]R]_]a`aaYT[X__Z`_
@HWI-EAS443:3:81:1375:707#0/1
ATTGAAGAGCCATCTGGGCCGTTGCAGGTCCAAGGTCATT
+HWI-EAS443:3:81:1375:707#0/1
aa_b`baaa__aa^aa_a^`a_a`XKZ[VZ¥^^^_ ^PU[`_
@HWI-EAS443:3:81:1418:449#0/1
ATTCGATCTAAAGACTTCTATGGTGTGGCCAATGCAGTT
+HWI-EAS443:3:81:1418:449#0/1
ab`¥^^^]b^`ab`^aaaa[[Z_UUVa`_RX_____F¥_]`
@HWI-EAS443:3:81:1507:391#0/1
GGGATTCAGGGGATTACAAAGTCTTCCCCGATAATCATCA
+HWI-EAS443:3:81:1507:391#0/1
abbaaa^a`aaaaaaaa`a__aaUV[Wbaa__aUa_R^
@HWI-EAS443:3:81:1515:169#0/1
ATCGCTATGGATTTGTGGCTAATTTTAGCATGGAGCTACC
+HWI-EAS443:3:81:1515:169#0/1
a¥Y¥XaU]aa¥a]TJTYOW`a`_[S[___S^YGS][UUVXG
@HWI-EAS443:3:81:151:154#0/1
GAGGATGAACAGATGTACCAGAAGTGCTGCAATCTATTCG
+HWI-EAS443:3:81:151:154#0/1
]b]aS^baYW[bb¥¥PX]_S`a]`W[Y`aU`[_^_a]^W_
@HWI-EAS443:3:81:1525:1480#0/1
TCACTGTTACTCCAATACTCATGTCAGCTGATTCATTTAC
+HWI-EAS443:3:81:1525:1480#0/1
YTX_ZV^b^JYMOXV`a`PQY`aNT[TF[]LWVU`_`RVG
@HWI-EAS443:3:81:155:236#0/1
AAAAATTCCAGCGAAAATGCCATAAGCACCATTC CCT
+HWI-EAS443:3:81:155:236#0/1
aba¥_¥_a__`_^^_^^^Z_a`^`Z^Z`]U¥ZXZZVZXZ
@HWI-EAS443:3:81:1583:972#0/1
GAAATTTTCCCTAGCAGTTCATATAGGAGACCGGTTGGA
+HWI-EAS443:3:81:1583:972#0/1
X_babbbbb`ab`ba`abab^bbaba`^^^^`[_ab^baWa
@HWI-EAS443:3:81:1588:869#0/1
GGCCCGGATTGATGCCAGGGTCGACTTCGAGTCTGGACGG
+HWI-EAS443:3:81:1588:869#0/1
aba_abbab]abab``babaZab]_abX_¥b[`ba`aUba
@HWI-EAS443:3:81:159:1740#0/1
ATGGGCTCCAATCATCCGACGATTTTGCTCTCATAGTGAA
+HWI-EAS443:3:81:159:1740#0/1
aaa^¥a]a`V¥^aa_`^[T_Z[Z]_^N____]]-[[PUU]^
@HWI-EAS443:3:81:1610:1183#0/1
AAGAAATACACCAAGACAATATACTGGTGGGATGGGCTCC

+HWI-EAS443:3:81:1610:1183#0/1
aab`aaaa_a`_a^`aa`a__a^aaa^a`a]a^a_W^^V
@HWI-EAS443:3:81:1612:1168#0/1
CAGGAATATTTGAGAATTCATGCCTTGAAACAATGGAAGT
+HWI-EAS443:3:81:1612:1168#0/1
abbbabaabbb`b`abbbabba_^bab`_aaa`bbaa__^
@HWI-EAS443:3:81:1628:2032#0/1
CATTGAAGTACTTCAGGTCAATGCTTGCTAGCATTCTGC
+HWI-EAS443:3:81:1628:2032#0/1
`bbbabbb^baba^bbb`_bb_ab`baaaaaIabba`baG
@HWI-EAS443:3:81:1629:1298#0/1
GTCTGTTTGTGCATACCCACTTGGTTCATTATCCTCAGGT
+HWI-EAS443:3:81:1629:1298#0/1
a__a_]a_]^Z^`a`_Y[^`a`_Y`G^^^a]NZ^X^^^Y
@HWI-EAS443:3:81:1679:1160#0/1
CAGGAATATTTGAGAATTCATGCCTTGAAACAATGGAAGT
+HWI-EAS443:3:81:1679:1160#0/1
a]`[]VVVb^V[ab`aaa`aaa¥^aa¥K¥_¥`¥aaaaTaW
@HWI-EAS443:3:81:1683:733#0/1
CCCAGGTGTTGCGATAGCCCTTCTTTTTAACTTGCCCTC
+HWI-EAS443:3:81:1683:733#0/1
aba`bb_aabaaaa`baa`a`_babaaaa_aa`ZZ_Xa_
@HWI-EAS443:3:81:1711:1044#0/1
CTTTGTAATCCCCTGAATCCCTTTGTCAGTCATAAAGAGA
+HWI-EAS443:3:81:1711:1044#0/1
J_^a`]Ybaab^b`b¥V`^^`¥b]¥¥¥_]`a^a`__
@HWI-EAS443:3:81:200:781#0/1
ATCCGACTCTACTTTTCCTAAAAATCCAGCGCAAAATGC
+HWI-EAS443:3:81:200:781#0/1
aaab]SJ_aaa`V^aaaaaabaaaa_a_aa^_a]__^__
@HWI-EAS443:3:81:242:2022#0/1
CTAATTTTAGCATGGAGCTACCCAGCTTTGGAGTGTCTGG
+HWI-EAS443:3:81:242:2022#0/1
a`a_aa`a`aaa`^[b`aaaa^Y__a`_^]¥X_Z``_X
@HWI-EAS443:3:81:274:1810#0/1
GATCCCACTAACTTGACGGTCTGTAGAATCTGTCCACT
+HWI-EAS443:3:81:274:1810#0/1
_`abbbaaabbb[__aaa¥Xaa_¥_a^Zaa`N`a_[V
@HWI-EAS443:3:81:313:684#0/1
AATCTGTCCACTCCTGCTTGTATTCCCTCATGGTTTGGTG
+HWI-EAS443:3:81:313:684#0/1
a_[_WaW^X`]Z[ZX`[[XaS]a]OUU[[[Y[]W_ROVZV
@HWI-EAS443:3:81:345:1258#0/1
GCCAGGGTCGACTTCGAGTCTGGACGGATCAAGAAAGAAG
+HWI-EAS443:3:81:345:1258#0/1
abbbaa`_baaaa`aaaa_aaaaa`aa`_aaa`a`]_aaZ
@HWI-EAS443:3:81:386:623#0/1
GCATTTGCGAAAAGCTTGAACAGTCTGGGCTCCCAGTAGG
+HWI-EAS443:3:81:386:623#0/1
aaaa_aaaaa^SY^`_^]Y]V]¥__^^Y¥]¥XL^X[YU

@HWI-EAS443:3:81:399:161#0/1
CAACCCGAGTGGTTCAGAAACATCCTGAGCATGGCACCCA
+HWI-EAS443:3:81:399:161#0/1
aaaaaaaa`aa]`^`a`^`_a__a__`_`_a__]][^N_^
@HWI-EAS443:3:81:425:1116#0/1
GGTGGGATGGGCTCCAATCATCCGACGATTTTGCTCTCAT
+HWI-EAS443:3:81:425:1116#0/1
^WX][ZS`¥U[[[I]]ZT]U^]]US^aWOS[^[UUN[[`VN
@HWI-EAS443:3:81:438:706#0/1
ATTGAAGAGCCATCTGGGCCGTTGCAGGTCCAAGGTCATT
+HWI-EAS443:3:81:438:706#0/1
W_^R^bZX^`a`[a^`^`_`^0_[[a_SGaXZXW]G]WU¥
@HWI-EAS443:3:81:468:2032#0/1
GTTGTCCCCAGTGATTGTGAAAGAAATCTCTGTGTCTTGT
+HWI-EAS443:3:81:468:2032#0/1
`^baabbbbbbaaaaab`aa`baabbababa_`a_aaaX¥
@HWI-EAS443:3:81:506:480#0/1
TAATCCCCTGAATCCCTTTGTCAGTCATAAAGAGATTGAT
+HWI-EAS443:3:81:506:480#0/1
aaX_abaaaaa`a^aaa`_[a`a`_`_`_`a_a`__`_X
@HWI-EAS443:3:81:553:1532#0/1
GGTAATGCCAGCCCATGGTCCAGCCAAAAGCATGGAATAT
+HWI-EAS443:3:81:553:1532#0/1
a`bb_abbbabaaaaa_]aa^aaaa]a)`aa__[___aa
@HWI-EAS443:3:81:554:1638#0/1
ACTCCTGCTTGTATTCCCTCATGGTTTGGTGCATTCACTA
+HWI-EAS443:3:81:554:1638#0/1
ab¥baaabab^[`aa`[aY`a^a`_a`]^Waa¥¥X__¥^^`
@HWI-EAS443:3:81:588:152#0/1
GGAGCATTTGCGAAAAGCTTGAACAGTCTGGGCTCCCAGT
+HWI-EAS443:3:81:588:152#0/1
abbbabb``aabaaa`[^`bb__Xa_]a[`ZTZ[LR`aQ
@HWI-EAS443:3:81:596:796#0/1
CTCCAATCATCCGACGATTTTGCTCTCATAGTGAATGCAC
+HWI-EAS443:3:81:596:796#0/1
a`_a[WR¥^)`_Z]]_0¥[aYaaaa`_`¥^]Y¥YIZ`[[[
@HWI-EAS443:3:81:621:1799#0/1
GATTCAGTATCGAGACTCCCAAGACCGTACTTAGCATGTT
+HWI-EAS443:3:81:621:1799#0/1
aa¥[bbaXa¥WX^UW]_baa_XX`_`_U[`ZV`Zaaa`^]
@HWI-EAS443:3:81:67:737#0/1
GTGCCATGCTCAGGATGTTTCTGAACCACTCGGGTTGATT
+HWI-EAS443:3:81:67:737#0/1
a`aaaa_aa_a`_`^¥`]_____`^_]¥^]]_`^_XLU_ZX^
@HWI-EAS443:3:81:693:1418#0/1
AGTAAACAGAACACACCAATACTCAGAAAAGGGAAAGTGG
+HWI-EAS443:3:81:693:1418#0/1
a^]aaaaaaaaa`a[`a^`_a`_`_`^`_`_`a]a^____[_`^
@HWI-EAS443:3:81:735:353#0/1
CAAGAGGAATCGTTCTATTCTCAACACAAGCCAAAGGGGA

+HWI-EAS443:3:81:735:353#0/1
a`bb`aTabaabbab`¥`_Z_aab^]Ia]^H]V]a`]U`Y
@HWI-EAS443:3:81:769:1687#0/1
ACATTAATACGATGACCAAAGATGCAGAGAGAGGCAAGT
+HWI-EAS443:3:81:769:1687#0/1
a]^`]]_[]`a`ZNU]a^``_TWa[Q_[]`[OYY_YZ^`Y
@HWI-EAS443:3:81:778:881#0/1
GGCTAATTTTATGATGGAGCTACCCAGCTTTGGAGTGTCT
+HWI-EAS443:3:81:778:881#0/1
aaaaaaabaaaaaab```aaaaaa`aaaaa]^a]a^aa
@HWI-EAS443:3:81:783:1032#0/1
GTCCTCCATCTGATACTAATAGCCCTACCTTTGATTGGGT
+HWI-EAS443:3:81:783:1032#0/1
¥L_bba¥bbbabaaa]bbbab_aaaa``Xabbbb_¥ZWa^
@HWI-EAS443:3:81:798:1410#0/1
GATCTTCATGATCTCAGAGAACTCTTCTTTCTTGATCCGT
+HWI-EAS443:3:81:798:1410#0/1
WU[b_abbYWWY]US¥^bba_bba[¥]__aaZ_]b`a`TW
@HWI-EAS443:3:81:864:1110#0/1
AGAATCTGTCCACTCCTGCTTGTATTCCCTCATGGTTTGG
+HWI-EAS443:3:81:864:1110#0/1
___Za_]_T^¥]]¥Z_][][]Z_Z[]`]]^¥_Y¥^]Q^¥]W
@HWI-EAS443:3:81:903:1065#0/1
GCCCCGATTGATGCCAGGGTCGACTTCGAGTCTGGACGGA
+HWI-EAS443:3:81:903:1065#0/1
X`aaa_U¥ab`[^abbab`Sbb_MQbaa`¥_a`a[]`_^aV
@HWI-EAS443:3:81:921:719#0/1
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+HWI-EAS443:3:81:921:719#0/1
aaa`_aaaa`_`aa`Z[]`aa`_`_`a`^__]Z^[_^]^^
@HWI-EAS443:3:81:931:1927#0/1
CCCCGATTGATGCCAGGGTCGACTTCGAGTCTGGACGGAT
+HWI-EAS443:3:81:931:1927#0/1
`baabSa`X[a^aaVEN[Z_Y`^^aX`_`Y^`_^_¥X`ZZ
@HWI-EAS443:3:81:950:1650#0/1
GCGAAAAGCTTGAACAGTCTGGGCTCCAGTAGGGGGCAA
+HWI-EAS443:3:81:950:1650#0/1
a`]ZQUM]¥¥VRW¥^_XKTRYUVRSZZZR`MUXQNZ]NZV
@HWI-EAS443:3:81:994:660#0/1
ATCAAGAAAGAAGAGTTCTCTGAGATCATGAAGATCTGTT
+HWI-EAS443:3:81:994:660#0/1
aaaaaaaaa_aaa`_`_a_aaa`_`^a```_a[___`a]¥
@HWI-EAS443:3:82:1019:802#0/1
GTCTGGAGTAAATGAATCAGCTGACATGAGTATTGGAGTA
+HWI-EAS443:3:82:1019:802#0/1
UMT]aP`bbaYI`a`U_]b^RY`aa__Z]`^a`V_YR
@HWI-EAS443:3:82:1022:2002#0/1
AATGAACCAAGTGGGTATGCACAAACAGACTGTGTTCTAG
+HWI-EAS443:3:82:1022:2002#0/1
aa[¥aa_____0^`_Z]Y]UU¥__¥^^X¥Y][V[Z]UUXZ

@HWI-EAS443:3:82:1039:549#0/1
ATCATGTTGTTCTTTATCACTGTTACTCCAATACTCATGT
+HWI-EAS443:3:82:1039:549#0/1
ababbbbbbababbbbbbaaabab`_a_aaaabaaaa`a
@HWI-EAS443:3:82:1043:879#0/1
GGGCTCCAATCATCCGACGATTTTGCTCTCATAGTGAATG
+HWI-EAS443:3:82:1043:879#0/1
aaba`abbaaaaba`ba`b_aaaa`a^aabaab]ba`aa
@HWI-EAS443:3:82:1056:1442#0/1
GGAGCTAATGGATGATGATTATCGGGGAAGACTTTGTAAT
+HWI-EAS443:3:82:1056:1442#0/1
abaaab`[aba`b`aaaaa_b``^```¥a__baa`_aaa
@HWI-EAS443:3:82:1062:1361#0/1
GCTGTGGTAATGCCAGCCCATGGTCCAGCCAAAAGCATGG
+HWI-EAS443:3:82:1062:1361#0/1
abba`_a`bbbaaaa`aaaaabaVaY`_aaaa`aP]a^^a
@HWI-EAS443:3:82:1072:335#0/1
CAGCCATGGAACAGGAACAGGATACCCATGGACACAGTA
+HWI-EAS443:3:82:1072:335#0/1
_b`bba_aaabbbbbbabab_bbbb]_`I`babbab]^`ab
@HWI-EAS443:3:82:1073:513#0/1
TCTGCTGGTATTTGTGTTTGAATCTTCATTCTTTTACTCT
+HWI-EAS443:3:82:1073:513#0/1
`a[`a`[^VW^a_^Y^`aXa_a_U_`]_]a_[W_Z`[Q
@HWI-EAS443:3:82:1110:1223#0/1
GATGCCAGGGTCGACTTCGAGTCTGGACGGATCAAGAAAG
+HWI-EAS443:3:82:1110:1223#0/1
aa[XR]a`aV^`a_¥[^]XULXa`¥a_`a[Va_[__Za[
@HWI-EAS443:3:82:1114:1238#0/1
GAGACAACATGACCAAGAAGATGGTCACGCAAAGAACAAT
+HWI-EAS443:3:82:1114:1238#0/1
abbbababaaaaab`abaab`aba^aa_a_a__a^a^aa
@HWI-EAS443:3:82:1138:701#0/1
GATTCCATTACATCCTTTAAGAAATCTATTAGCCTTCCTG
+HWI-EAS443:3:82:1138:701#0/1
a¥ba¥`abaaaaa_baa`aa^aaa_a_``aaaa__`G`a
@HWI-EAS443:3:82:1157:1318#0/1
CAGTGATTGTGAAAGAAATCTCTGTGTCTTGTGAATTAGT
+HWI-EAS443:3:82:1157:1318#0/1
`a`ab]a_a]aabbbababba`b`a`^_bbVaV0]__SIQ
@HWI-EAS443:3:82:1161:1537#0/1
TATTGGTGTGTTTCTGTTTACTGTGTCCATGGTGTATCCTG
+HWI-EAS443:3:82:1161:1537#0/1
````\_`[a\_a[^\_Ja\_a`a]^a^U\_¥aR`a`0aN\_a\_¥H\_a  
@HWI-EAS443:3:82:1169:1580#0/1  
GCCAGGGTCGACTTCGAGTCTGGACGGATCAAGAAAGAAG  
+HWI-EAS443:3:82:1169:1580#0/1  
`Y[bb\_Z¥Ma[FWZP\_]\_^`aaaaX\_aQW\_b`aaba`a¥¥  
@HWI-EAS443:3:82:1184:1461#0/1  
GGGAGCTAATGGATGATGATTATCGGGGAAGACTTTGTAA

+HWI-EAS443:3:82:1184:1461#0/1  
\_¥`^\_]````ba`a`a`^aa\_````aa\_]W````aaa\_¥a\_  
@HWI-EAS443:3:82:119:1948#0/1  
ATTTGCGAAAAGCTTGAACAGTCTGGGCTCCCAGTAGGGG  
+HWI-EAS443:3:82:119:1948#0/1  
`a]S¥^)^`ZXaZ[ZT\_\_\_\_Q`Z[UU]UUZ\_W¥G¥QV¥Y  
@HWI-EAS443:3:82:1237:1333#0/1  
CAGGAACAGGATACACCATGGACACAGTAAACAGAACACA  
+HWI-EAS443:3:82:1237:1333#0/1  
abbbabbbbbbbbb\_Z\_bababbbbabbaab\_bbab`b  
@HWI-EAS443:3:82:1272:107#0/1  
CGATGACCAAAGATGCAGAGAGAGGCAAGTAAAAAGAAG  
+HWI-EAS443:3:82:1272:107#0/1  
]bbbb\_¥``bbbabbaabab\_abb`ab\_V\_`bbbbbbab  
@HWI-EAS443:3:82:1284:822#0/1  
GATTCTTCAAGGAAAGCCATAGCCTCTAGAACACAGTCTG  
+HWI-EAS443:3:82:1284:822#0/1  
¥abbbabba`bbabbbbabbbabb^abbbaa^]`bb  
@HWI-EAS443:3:82:1288:755#0/1  
GAAGTACTTCAGGTCAATGCTTGCTAGCATTCTGCTGGT  
+HWI-EAS443:3:82:1288:755#0/1  
abaa^a\_bba`\_aZaa^a`aaaa^\_aa\_`aa¥``\_^`YH  
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GGGCAATGAAAAGAAGGCCAAACTGGCAAATGTTGTGAGA  
+HWI-EAS443:3:82:1289:1888#0/1  
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@HWI-EAS443:3:82:1328:370#0/1  
CACTAACTTGCAGTCTGTAGAATCTGTCCACTCCTGCT  
+HWI-EAS443:3:82:1328:370#0/1  
NU¥\_¥aaT¥\_V\_b\_JX\_X````¥aX^bb\_H\_[M¥X`VUHT  
@HWI-EAS443:3:82:1388:237#0/1  
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+HWI-EAS443:3:82:1388:237#0/1  
`a`]ba]abbbbbabbb]ab[baabbaab`bbbaV]ba  
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+HWI-EAS443:3:82:1488:228#0/1  
¥b`b\_bbbbabaaa]a¥baaaaaba^\_aaa`aa`a`\_\_^a  
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+HWI-EAS443:3:82:1527:175#0/1  
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AGCTGTTAGGCCATTGATCTAAAGACTTCTATGGTGTG  
+HWI-EAS443:3:82:1563:377#0/1  
ab`aaaabb\_a[aaa¥\_aaa\_`a`a`¥\_aZb\_b[]`Y]a¥  
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AAAAATTCCAGCGCAAATGCCATAAGCACCATTCCT  
+HWI-EAS443:3:82:158:2015#0/1  
a`\_\_`^Zaa\_¥ZV`¥M¥¥]X^`\_]a`U\_^^^]ZXZ]]ZS



@HWI-EAS443:3:82:1655:1390#0/1  
ACAAAGTATACGAAACCTCTAATCTGCATCCCAGGTGTTG  
+HWI-EAS443:3:82:1655:1390#0/1  
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@HWI-EAS443:3:82:1695:43#0/1  
CACCCAGGAATATTTGAGAATTCATGCCTTGAAACAATGG  
+HWI-EAS443:3:82:1695:43#0/1  
^b`babbbbbbbbababa^¥a\_bbbbb]Xbbbabbb\_\_abbZ  
@HWI-EAS443:3:82:1713:419#0/1  
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+HWI-EAS443:3:82:1713:419#0/1  
[\_\_^]W^)`aabaH]bGaab]^\_b`[WYY]`]aXZ[\_ZT[  
@HWI-EAS443:3:82:199:636#0/1  
CAGTGATTGTGAAAGAAATCTCTGTGTCTTGTGAATTAGT  
+HWI-EAS443:3:82:199:636#0/1  
a`XaXaaa^aaaa^^babaaaa\_[\_\_aa``¥U]`aZPZ  
@HWI-EAS443:3:82:20:124#0/1  
TAAAAATTCAGCGCAAATGCCATAAGCACCATTTCCC  
+HWI-EAS443:3:82:20:124#0/1  
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ACTGCATTGGCCAACACCATAGAAGTCTTTAGATCGAATG  
+HWI-EAS443:3:82:232:1685#0/1  
aa\_a``\_¥\_\_aa^^Ya`\_]\_¥\_\_¥W\_YY[[Z^Z^]W\_ZZ  
@HWI-EAS443:3:82:260:1688#0/1  
ACGATGACCAAAGATGCAGAGAGAGGCAAGTTAAAAAGAA  
+HWI-EAS443:3:82:260:1688#0/1  
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@HWI-EAS443:3:82:291:1261#0/1  
CCGGATTGATGCCAGGGTCGACTTCGAGTCTGGACGGATC  
+HWI-EAS443:3:82:291:1261#0/1  
aa]\_]`\_Z`^`\_`^`[`S`\_`W`^`¥¥^U\_U`^Y¥]]TW\_  
@HWI-EAS443:3:82:301:84#0/1  
CCTCCATCTGATACTAATAGCCCTACCTTTGATTGGGTTT  
+HWI-EAS443:3:82:301:84#0/1  
aab`baaa`bW[aab[aaaa`a`])`\_`aa`a\_a\_aaa]\_\_  
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CTGGGATGCAGATTAGAGGTTTCGTATACTTTGTTGAAAC  
+HWI-EAS443:3:82:328:281#0/1  
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@HWI-EAS443:3:82:34:1835#0/1  
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+HWI-EAS443:3:82:34:1835#0/1  
a`YaZ]aa`aaX``a`\_[aaY`YQOTWUJPU[\_^UVUUXZ  
@HWI-EAS443:3:82:36:502#0/1  
GTTCTGTTTACTGTGTCCATGGTGTATCCTGTTCTGTTCTC  
+HWI-EAS443:3:82:36:502#0/1  
a^bbab`aaaba`^b\_baa`^a]a^aaaaa\_\_``\_``\_`  
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CTGCAATCTATTTCGAGAAATTTTTCCCTAGCAGTTCATAT

+HWI-EAS443:3:82:373:97#0/1  
abbaa`baaaaa`bba`aaaaaa`\_\_\_\_`\_aXXaZ\_]U]Z\_  
@HWI-EAS443:3:82:417:1477#0/1  
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+HWI-EAS443:3:82:417:1477#0/1  
aa]VUR[Ta¥USUO\_W]R[TWPP]U^^\_^^NUX[URTXSS  
@HWI-EAS443:3:82:421:62#0/1  
CTCCTGCTTGTATTCCCTCATGGTTTGGTGCATTCACTAT  
+HWI-EAS443:3:82:421:62#0/1  
abbabbabbabba]`bababbbabbab`babb`]Z^ba`  
@HWI-EAS443:3:82:435:465#0/1  
GCTTAAAATGGGAGCTAATGGATGATGATTATCGGGGAAG  
+HWI-EAS443:3:82:435:465#0/1  
ababa`\_aaa\_`^aaaaaaaa`aa`\_`a`aaaa`\_`a^^RY  
@HWI-EAS443:3:82:449:1039#0/1  
CGGATTGATGCCAGGGTCGACTTCGAGTCTGGACGGATCA  
+HWI-EAS443:3:82:449:1039#0/1  
aa]\_aabaabbaa¥a]Waaaa``aaa^``a¥^^aa\_Z\_\_  
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CAACATTTGCCAGTTTGGCCTTCTTTTCATTGCCCCCTAC  
+HWI-EAS443:3:82:458:177#0/1  
X¥abbX`X\_WNF[ZUP`b[`R`^Z^TSZSOW\_WKSZ]R]O  
@HWI-EAS443:3:82:467:585#0/1  
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+HWI-EAS443:3:82:467:585#0/1  
`bb¥b¥aaababab`a`bZP¥ab]bb\_^aZ\_a¥[]SM\_]a  
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+HWI-EAS443:3:82:470:1584#0/1  
a^ab^a\_\_a`b`[`bbabaa\_bbabab\_aZaaaa¥aa\_a  
@HWI-EAS443:3:82:497:1522#0/1  
ATCATATTCCATGCTTTTGGCTGGACCATGGGCTGGCATT  
+HWI-EAS443:3:82:497:1522#0/1  
¥¥aa^WW`\_a`WR]Y^YOWXRUZ¥SUZ[M¥¥S^YUTUWXK  
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ATTGATGCCAGGGTCGACTTCGAGTCTGGACGGATCAAGA  
+HWI-EAS443:3:82:499:79#0/1  
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@HWI-EAS443:3:82:512:681#0/1  
GCTGACATGAGTATTGGAGTAACAGTGATAAAGAACAACA  
+HWI-EAS443:3:82:512:681#0/1  
aa`aa`\_a^`^a]R]aaa^aaa`]V\_``\_X\_`]````[a  
@HWI-EAS443:3:82:520:237#0/1  
CAAAATCGTCGGATGATTGGAGCCCATCCCACCAGTATAT  
+HWI-EAS443:3:82:520:237#0/1  
abbbbaababbb\_a`[\_`ba^baa^baab^`\_a[\_X`\_¥a  
@HWI-EAS443:3:82:557:68#0/1  
TTTTCTAAAAATTCCAGCGCAAATGCCATAAGCACCAC  
+HWI-EAS443:3:82:557:68#0/1  
abbbbbbba`Q`baaab`aaaaaaaa`aaaaa^a\_]a]

@HWI-EAS443:3:82:567:251#0/1  
CATAAGTCTGGCGACCTTGAGTTAGTTTATCTACCCCTGT  
+HWI-EAS443:3:82:567:251#0/1  
abb^`[[aY\_\_^`aVWaW`R\_¥ZZW\_aa]``a\_^¥a]\_^  
@HWI-EAS443:3:82:591:59#0/1  
AAAAATTCCAGCGAAAATGCCATAAGCACCACATTCCCT  
+HWI-EAS443:3:82:591:59#0/1  
^`\_ZZ`\_\_Z`\_YZ¥Y¥^^¥SYX¥]YULY]R[Z^[YZYU^  
@HWI-EAS443:3:82:603:564#0/1  
GGTGGAGGCCATGGTGTCTAGGGCCCGATTGATGCCAGG  
+HWI-EAS443:3:82:603:564#0/1  
\_aZ`¥```\_^]¥P¥¥[SXQ^¥Y^]P]S¥XYZZ^^YP  
@HWI-EAS443:3:82:60:478#0/1  
ACGGTCTTGGGAGTCTCGATACTGAATCTTGGACAAAAGA  
+HWI-EAS443:3:82:60:478#0/1  
a[aYQ¥`^`aWXV\_^0\_VSUOU[RTVZUHT^^ZZXVOTUT  
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GGCCATGGTGTCTAGGGCCCGATTGATGCCAGGGTTCGAC  
+HWI-EAS443:3:82:619:900#0/1  
aaaa`\_`[^a[^\_a`aaa\_a`^`\_\_¥W^a¥]¥¥R```¥  
@HWI-EAS443:3:82:643:56#0/1  
ATATGATGCCGTTGCAACTACACATTCCTGGATTCCCAAG  
+HWI-EAS443:3:82:643:56#0/1  
aaaab`ab^^aQaaaZ\_\_a\_Va\_Z\_]`S`^¥Z^V¥]^]  
@HWI-EAS443:3:82:651:1378#0/1  
GTGGGATTCTTCAAGGAAAGCCATAGCCTCTAGAACACAG  
+HWI-EAS443:3:82:651:1378#0/1  
`\_aaaa`aaaaaba\_aaa`^`aaa`\_`a\_a`a`a`\_a`  
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ATTGATGCCAGGGTCGACTTCGAGTCTGGACGGATCAAGA  
+HWI-EAS443:3:82:686:175#0/1  
ababa`aa[]\_¥YR\_aa\_\_\_`¥S`^^`\_`^a\_\_XU[]^\_  
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GAACACAGTCTGTTTGTGCATACCCACTTGGTTCATTATC  
+HWI-EAS443:3:82:692:435#0/1  
``bab`bb`bb^aa`a`\_a\_a`a^\_aa`V`\_`a\_a`a`  
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ATTATGGGTGCCATGCTCAGGATGTTTCTGAACCACTCGG  
+HWI-EAS443:3:82:702:80#0/1  
abbabbba[a]`\_`aaa`a`]^`¥\_a]\_SZ]ZZYZYS`\_`  
@HWI-EAS443:3:82:746:98#0/1  
AAGCAGGAGTGGACAGATTCTACAGGACCTGCAAGTTAGT  
+HWI-EAS443:3:82:746:98#0/1  
a]T¥ab`^b\_b^a[VK¥¥`\_`\_¥^¥^]WWZ`¥¥[XPWV^U  
@HWI-EAS443:3:82:762:126#0/1  
CAGTGATTGTGAAAGAAATCTCTGTGTCTTGTGAATTAGT  
+HWI-EAS443:3:82:762:126#0/1  
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+HWI-EAS443:3:82:792:1973#0/1  
aaaaaaaa`]`¥\_a`\_`a\_aaa`\_\_\_\_^^`V[]Z`Z`  
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CTTTTCTGAGTATTGGTGTGTTCTGTTTACTGTGTCCATG  
+HWI-EAS443:3:82:884:770#0/1  
SabbbaWY\_`bb`b`babaZ`¥```]bb^a`Z`\_]a\_`¥  
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GGGCTCCAATCATCCGACGATTTTGCTCTCATAGTGAATG  
+HWI-EAS443:3:82:891:473#0/1  
ab`a`\_`aaaaaaaaa^a`\_`aaa`a\_^]N\_`aa]a^\_\_a  
@HWI-EAS443:3:82:914:247#0/1  
CCTAGCTAAAGTTTCAACAAAGTATACGAAACCTCTAATC  
+HWI-EAS443:3:82:914:247#0/1  
abbbbaabbb\_babb`bbabbbb]abba`babaabaababa  
@HWI-EAS443:3:82:943:1918#0/1  
CAGTGATTGTGAAAGAAATCTCTGTGTCTTGTGAATTAGT  
+HWI-EAS443:3:82:943:1918#0/1  
VbbObbabbVbaba\_b`bb`^ab`\_`bbababbababbYa^  
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+HWI-EAS443:3:82:974:1132#0/1  
a]Z]^\_U\_aa]¥\_ZUWX`]ZZ]U```¥V`^]^[[`a^^^\_  
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AAGAAATCTCTGTGTCTTGTGAATTAGTCATCATCTTTCT  
+HWI-EAS443:3:82:987:1920#0/1  
Y`]^aa\_¥^b^¥G]\_aa`]Ua`[^\_``[[XZY]]]aaaaV  
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+HWI-EAS443:3:83:1034:991#0/1  
abbabbababbbbaabbaba\_a^aaab^aba\_babaaaa`  
@HWI-EAS443:3:83:1053:252#0/1  
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+HWI-EAS443:3:83:1053:252#0/1  
ab`aa`\_ZY^a^`aa\_]a`\_aaaaa`^`\_^¥`^`][a[^  
@HWI-EAS443:3:83:1196:240#0/1  
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+HWI-EAS443:3:83:1196:240#0/1  
aa[ab\_aUYZ\_Y]a`a\_^W`\_aaa^`\_^\_\_T`\_]LW\_`^  
@HWI-EAS443:3:83:1214:1738#0/1  
GGCAATGAAAAGAAGCCAAACTGGCAAATGTTGTGAGAA  
+HWI-EAS443:3:83:1214:1738#0/1  
a^a\_a`[\_`\_`Z¥a^`aaa`a\_X`\_`^``aaX^a^`\_`\_^]  
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CAATTGAAGAGCCATCTGGGCCGTTGCAGGTCCAAGGTCA  
+HWI-EAS443:3:83:1237:1066#0/1  
GY`^\_aba^`b\_\_`\_]ba¥`]``ZS\_V\_a`J```bbbZZS  
@HWI-EAS443:3:83:1256:600#0/1  
GGTGTCTAGGGCCCGATTGATGCCAGGGTCGACTTCGAG  
+HWI-EAS443:3:83:1256:600#0/1  
^JUZa]TaU```aU[a^^]¥ZUKN¥\_aXQTa\_Wa¥^X\_]`

@HWI-EAS443:3:83:127:1746#0/1  
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a`a\_a`a]\_R^`a^`a`\_`a`\_`a^`aaaa``^[\_X  
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+HWI-EAS443:3:83:1287:1105#0/1  
abb`b`b`baaaa`^aab^`ZQDX\_\_ZX`\_OYWIRZ^^`\_`  
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+HWI-EAS443:3:83:129:1279#0/1  
`a\_\_aWN`LV`L^Y^aaaT]P]UV\_\_ZYU]^[\_`UYT`Y\_  
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\_T^ZX`b^Qa^\_\_][aaXb`]^`^aV`H`aZa\_QFZ`a`  
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+HWI-EAS443:3:83:1401:603#0/1  
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+HWI-EAS443:3:83:1403:277#0/1  
abba\_aa\_abbbaa\_a`aa\_aa[\_`a\_aaa\_aa^`^^Y[  
@HWI-EAS443:3:83:1438:124#0/1  
AAGATGGTCACGCAAAGAACAATAGGGAAGAAAAACAAA  
+HWI-EAS443:3:83:1438:124#0/1  
aaaa[b`YX`\_X]^`^a\_a`^]a\_b\_\_YQa]]a\_]\_`^\_W  
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+HWI-EAS443:3:83:1441:743#0/1  
a`ba\_ba\_`\_aa`TP`aa\_W\_`\_\_\_\_X`P`a`\_`Y\_VNR  
@HWI-EAS443:3:83:1492:459#0/1  
TGGACCACTACCTGAGGATAATGAACCAAGTGGGTATGCA  
+HWI-EAS443:3:83:1492:459#0/1  
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+HWI-EAS443:3:83:1505:578#0/1  
abbababaabb`a\_aabaa`aa`a`\_aa\_aa\_a\_bY`\_`a\_  
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ACACATTCCTGGATCCCAAGAGGAATCGTTCTATTCTCA  
+HWI-EAS443:3:83:1506:1415#0/1  
V^`¥S\_\_[`]RZ`X\_YR^Waa`YZV]YPMO\_XPPXZRO  
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GAATCAATGAACAAAGAGGAAATAGAGATAACAACCCACT  
+HWI-EAS443:3:83:153:1231#0/1  
a`aTa\_\_`X`[LYa\_a\_NY\_a`aYaa\_aX\_a`\_`^\_\_\_\_  
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@HWI-EAS443:3:83:324:1063#0/1  
GATTCTTCAAGGAAAGCCATAGCCTCTAGAACACAGTCTG  
+HWI-EAS443:3:83:324:1063#0/1  
a]]abbaaa\_aba`aabaaa^\_a\_aaaaa\_a\_a\_`Y\_\_`  
@HWI-EAS443:3:83:326:1352#0/1  
CTGATTCACTTACTCCAGACACTCCAAAGCTGGGTAGCTC  
+HWI-EAS443:3:83:326:1352#0/1  
aaaa\_aa]a`aaa`aaa\_\_\_\_\_aaa`a`\_\_a\_`\_]^^W\_]`  
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GTTCTGTTTACTGTGTCCATGGTGTATCCTGTTCCCTGTTTC  
+HWI-EAS443:3:83:340:1751#0/1  
`aa]a]Z\_Zaaabababb^]\_aWa``abaa`\_`a`¥Y][a  
@HWI-EAS443:3:83:350:1095#0/1  
ATCCGACTCTACTTTTCTAAAAATTCCAGCGCAAAATGC  
+HWI-EAS443:3:83:350:1095#0/1  
a`¥I¥P\_]`^Y¥Z]\_a\_]Z]¥Q[[a\_a]U]``]SXH¥^\_^  
@HWI-EAS443:3:83:359:1085#0/1  
CAGTAGGGGCAATGAAAAGAAGGCCAAACTGGCAAATGT  
+HWI-EAS443:3:83:359:1085#0/1  
aaa`\_^`aabaaab`^aaa]a`ab`aaa\_aa```P\_\_aZ  
@HWI-EAS443:3:83:402:1874#0/1  
TGTTTATCATGTTGTTCTTTATCACTGTTACTCCAATACT  
+HWI-EAS443:3:83:402:1874#0/1  
a`\_aaba`aaaa`\_]\_aaa``ba¥`aa`^`a]¥a^]a\_a\_\_  
@HWI-EAS443:3:83:403:677#0/1  
AAAATTCCAGCGCAAAATGCCATAAGCACCATTCCTT  
+HWI-EAS443:3:83:403:677#0/1  
a`aa^`[¥¥X¥aa[G]U¥WU\_Q¥`\_`YYSYa]\_]`^\_\_\_\_R[\_Z  
@HWI-EAS443:3:83:414:1839#0/1  
AAAAATTCCAGCGCAAAATGCCATAAGCACCATTCCTT  
+HWI-EAS443:3:83:414:1839#0/1  
aaaa\_`\_¥[\_^\_\_\_\_[\_^\_]X¥]]¥]^`^X]^\_WX^YXX  
@HWI-EAS443:3:83:454:82#0/1  
ATGGAATCAATGAACAAAGAGGAAATAGAGATAACAACCC  
+HWI-EAS443:3:83:454:82#0/1  
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@HWI-EAS443:3:83:478:251#0/1  
CCTCTTTGTTTCATTGATTCCATTACATCCTTTAAGAAATC  
+HWI-EAS443:3:83:478:251#0/1  
aaa`aaa`¥aaaa`aaaa`^^`a`a\_\_a````\_\_`\_^\_^  
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GACAAAAGAAATACACCAAGACAATATACTGGTGGGATGG  
+HWI-EAS443:3:83:529:1759#0/1  
a`abb^aaaba]a`aa¥\_aaa``\_aa\_\_^\_a`Z\_N]`UUZ  
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GCTTGAACAGTCTGGGCTCCCAGTAGGGGGCAATGAAAAG  
+HWI-EAS443:3:83:534:154#0/1  
aa`\_`¥`aa`^`\_[\_a\_\_\_\_Z[\_`W\_]¥\_¥¥¥^¥\_¥ZW^¥  
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ATTCGAGAAATTTTTCCCTAGCAGTTCATATAGGAGACCG

+HWI-EAS443:3:83:543:595#0/1  
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CACCCAGGAATATTTGAGAATTCATGCCTTGAAACAATGG  
+HWI-EAS443:3:83:561:1591#0/1  
abba\_HX`^a^aY`\_\_a`¥`\_\_`^`^`^`\_X`\_a^Z]S  
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CAGTGATTGTGAAAGAAATCTCTGTGTCTTGTGAATTAGT  
+HWI-EAS443:3:83:574:1593#0/1  
aa^IZ`\_aa`^][aa¥]a`\_\_a`\_ZOYa`[FU[W\_0]YZQ  
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+HWI-EAS443:3:83:619:531#0/1  
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+HWI-EAS443:3:83:634:240#0/1  
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+HWI-EAS443:3:83:634:396#0/1  
a`¥a`a]aaa`XH\_]`b`\_a¥aa`\_¥GZ`[W^Z[^]ZV[\_  
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GAACAAAGAGGAAATAGAGATAACAACCCACTTTCAAAGA  
+HWI-EAS443:3:83:643:408#0/1  
aaaa\_]¥bY¥bU\_[a\_aaaa^aaaa`\_`aa`a```\_`^`\_`  
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CTCCATCTGATACTAATAGCCCTACCTTTGATTGGGTTTG  
+HWI-EAS443:3:83:763:426#0/1  
ab^b`\_S`bbbaSP\_a`^`^`a¥```[a]RZ`]TH]\_]`  
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GGCTATTAGTATCAGATGGAGGACCAAACCTTATACAATAT  
+HWI-EAS443:3:83:766:1068#0/1  
`aba`^\_Y[Y\_[]]S[Y\_`a[JZ`¥]`\_`^`\_]\_K¥```  
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J`bb^a\_aVb`b`^aaab]]b]aaba\_a`ba]ab]a`Z^^  
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aa\_aa[ab^¥`^`]\_aaaa`^¥a`a^^aa¥```\_a`a^^`  
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aaa¥a`\_aaa`a`\_aa`^]T¥Z`\_]`^Y^XZX^TV^Z\_]V



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a`^^`[\_a\_]\_`¥ab^`aaaa`aa\_^`]TSZQQNSZHX  
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+HWI-EAS443:3:83:906:1568#0/1  
ab\_X¥Q\_[\_ba^H[XSVSV¥¥NQU^`¥MZYJ\_\_\_WU\_[XP  
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+HWI-EAS443:3:83:936:394#0/1  
a\_`a\_a\_aYUaZY^^aa^VXY`\_^`\_`\_]V]¥`Z`]\_X  
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ATAGTGAATGCACCAAACCATGAGGGAATACAAGCAGGAG  
+HWI-EAS443:3:83:943:1927#0/1  
`\_`]X[a]``[aa\_aa`V^^aaa]Y\_`\_aa`aa^`a\_\_¥\_  
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+HWI-EAS443:3:83:979:1022#0/1  
a`\_Zaa\_ZYUa`a\_Z^¥VSTP]R`\_\_\_\_][U`VYRS\_\_^Y\_  
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CGATGACCAAAGATGCAGAGAGAGGCAAGTAAAAAGAAG  
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aa^aaaaaa]aa\_`b\_\_b\_a\_`aaa^a\_a\_`\_\_\_\_^a\_`\_  
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+HWI-EAS443:3:84:1108:1253#0/1  
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+HWI-EAS443:3:84:1113:823#0/1  
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+HWI-EAS443:3:84:1143:2023#0/1  
aaa^aaaaaaaa`^a\_\_\_`Y]a\_\_\_Z[[QY\_\_¥^\_\_¥[¥  
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GTGGGATTCTTCAAGGAAAGCCATAGCCTCTAGAACACAG  
+HWI-EAS443:3:84:1152:307#0/1  
a^aaa[^`\_a`Y\_^aa\_^^`]^\_\_\_`V]\_^`\_^\_X^X]^  
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+HWI-EAS443:3:84:1196:1957#0/1  
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+HWI-EAS443:3:84:1285:1821#0/1  
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+HWI-EAS443:3:84:1363:703#0/1  
aa`aaaaaa\_ab`\_`a\_aa\_a¥S`\_U]`a`Y`¥YT  
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+HWI-EAS443:3:84:1389:1338#0/1  
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+HWI-EAS443:3:84:1414:869#0/1  
]bb`bbaabaZbb\_aa¥Y`aaaT¥[\_`\_`a\_a[\_a`[\_¥  
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a`^^`a`X`^¥P\_ZUT¥X`TYVTROZ¥UU^]]]\_TR  
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¥U`\_\_\_[a\_X\_ZY`aaaYa\_a]]]JaSIOH]`XZa]Ya\_\_\_  
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`b^T^b`¥a``V^aVb¥\_TSbabaab\_a^`Y`bYb  
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+HWI-EAS443:3:84:1621:1365#0/1  
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+HWI-EAS443:3:84:1685:307#0/1  
aaa^babb`aaSbaaa[]aaa\_]`aaaa`a¥Wa]a¥\_a`a  
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+HWI-EAS443:3:84:1711:545#0/1  
aba`Z`]\_¥Z[]Q¥X\_]¥][YW]^]OWT`X¥a[^W`a\_U  
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aaaaa\_a`aa`¥TTa`\_\_a`^S`[a\_^`a`a`a`\_X\_  
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+HWI-EAS443:3:84:19:333#0/1  
`¥Q]ZV\_\_b]T^^Z^\_X\_[0[¥QGV]^Y^\_`]YXXX[[X]  
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+HWI-EAS443:3:84:220:820#0/1  
aaa`aaa`aa^[\_¥\_\_^^\_`\_¥^VU[¥¥W¥¥¥^^ZWUW^  
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+HWI-EAS443:3:84:223:1106#0/1  
`a`Zaa\_\_UWX¥Q¥V\_WYN[¥WR[Y\_T^QVTSWWYTWYYW  
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+HWI-EAS443:3:84:247:216#0/1  
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+HWI-EAS443:3:84:257:349#0/1  
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GAGCCATCTGGCCGTTGCAGGTCCAAGTTCATTGTTTAT  
+HWI-EAS443:3:84:28:924#0/1  
`Taa``\_Q\_Wa\_ZQTY\_YO¥[U^^][¥[W]Z[V[SRVV[  
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+HWI-EAS443:3:84:298:719#0/1  
]JV a`\_ab^a\_\_YX\_a\_Y\_[YVa\_[¥U¥aa`a\_a`HX]X`  
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+HWI-EAS443:3:84:324:629#0/1  
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+HWI-EAS443:3:84:363:14#0/1  
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GTTCTGTTTACTGTGTCCATGGTGTATCCTGTTCTGTTTC  
+HWI-EAS443:3:84:377:609#0/1  
a\_aaaa`\_`\_`a[a\_a`\_\_a\_VaW\_\_¥`[X¥\_]Z^VU^\_  
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+HWI-EAS443:3:84:427:1502#0/1  
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¥Q\_aabbb`^baa`ab]a^`\_`aab`¥a^`\_`\_`^aR][  
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+HWI-EAS443:3:84:459:531#0/1  
`¥^aab`aa^a\_\_\_\_]\_`\_\_\_\_\_`\_`^a^^^\_`¥^\_Z\_^\_  
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+HWI-EAS443:3:84:488:164#0/1  
aa`\_]0\_V]^`\_[Y^^][\_]Y]X¥]XYX¥W^YXXYXYV  
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CTGAATAAGAGAGGCTATCTAATAAGAGCACTGACATTAA  
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a`a`\_aaaa`aa\_[\_^SMX^[Y[^SQW]\_¥U\_^\_¥][UY  
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+HWI-EAS443:3:84:588:617#0/1  
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ATTGATGCCAGGGTCGACTTCGAGTCTGGACGGATCAAGA  
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+HWI-EAS443:3:84:617:923#0/1  
`\_a`a`a`a`a`a`^[\`\_Y`\_U¥¥\_\_\_\_U\_^`\_¥\_W¥W

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\_]\_`a`V`]TZ`a\_\_Z\_ab^b^YZaa\_¥`a`a`[¥a]\_`  
@HWI-EAS443:3:84:651:1124#0/1  
GGTGCATTCACTATGAGAGCAAAATCGTCGGATGATTGGA  
+HWI-EAS443:3:84:651:1124#0/1  
aaabbbbbbbabbabbbabbbbab`abb`aa`aaa`a`  
@HWI-EAS443:3:84:672:347#0/1  
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+HWI-EAS443:3:84:672:347#0/1  
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GGCTTTCCTTGAAGAATCCCACCCAGGAATATTTGAGAAT  
+HWI-EAS443:3:84:692:263#0/1  
^M][Z`X\_\_\_\_\_a]PT`^^][^\_\_0^¥Z^]Z][^^]Z]XY  
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+HWI-EAS443:3:84:693:41#0/1  
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+HWI-EAS443:3:84:793:1662#0/1  
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a^`ab`]\_]\_[aa\_]a`aaa[¥][[]U^\_HVa`]VTX\_ZZ  
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a\_a¥Raaa\_\_\_a``\_a`\_`\_\_`\_`aa\_\_aaaa\_Y]YX^\_Z  
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aaaa`aaaa`aaa`ab`\_`\_a`\_`^aa\_¥\_\_^`\_`\_`ZU  
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@HWI-EAS443:3:84:878:1032#0/1  
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+HWI-EAS443:3:84:878:1032#0/1  
aaa`\_a\_aa\_\_`\_`\_\_aa]\_[`\_¥\_`\_¥\_`]\_¥\_^[¥^\_  
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a^`aaaaab^aba`aaaaaa\_aaabaZaa\_a^a\_aa`^a  
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^`]M^aaaab`\_]`a^aaa`^`aaaa`a`\_a]^`¥`¥¥  
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+HWI-EAS443:3:84:972:157#0/1  
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+HWI-EAS443:3:84:989:983#0/1  
aaa`Yaa`````\_`\_V\_[Xa]a[aaaa^a\_]\_]PRY\_\_  
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+HWI-EAS443:3:85:1022:1320#0/1  
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@HWI-EAS443:3:85:1050:946#0/1  
TGGATGTCAATCCGACTCTACTTTTCTAAAAATTCAGC  
+HWI-EAS443:3:85:1050:946#0/1  
aba`aaaaaaaaaZ```a`^aa\_\_\_\_aaa\_a````\_W`a]  
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+HWI-EAS443:3:85:106:529#0/1  
^^^JVaaa¥RU]Z]^][aa`[^`Xa\_`^¥`\_`a`\_[M]\_\_Z\_  
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+HWI-EAS443:3:85:111:1018#0/1  
aaaaaaaa`[\`abaaa``^aaWa\_a`\_aT^`\_\_\_¥\_ZV[  
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+HWI-EAS443:3:85:1127:1032#0/1  
aaabaabbbbaaaa``a`aaa`a`aa`\_a`[\_`\_]a`X`YX  
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a^bbbaX`]`¥bbbaabaaa`aaaa`baaba`aa`aaJU¥  
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TCCTCTTTGTTCAATTGATTCCATTACATCCTTTAAGAAAT  
+HWI-EAS443:3:85:1164:1888#0/1  
N]TT]¥V\_^b^Maabb``¥a^¥¥Y\_NUb[D[^R^`\_^a]\_  
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aba`\_a^\_aa`V`]`]]]¥¥[Za]Y\_aaaZ¥¥ZZa]\_\_\_\_\_`  
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]b\_US]\_V][¥Q¥WZQ^\_]a\_]a[UF]\_a]`Y[[`\_]a¥  
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a`Vaaa\_aa`a`R`]`a`¥`\_¥¥`\_Qa¥`\_`\_`aW`^¥W\_¥  
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\_]S\_ba\_\_\_\_a]]¥¥T^T^`^`ab^[S^`]^`¥ZX[ZUVSVX  
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+HWI-EAS443:3:85:1357:1334#0/1  
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+HWI-EAS443:3:85:164:202#0/1  
a\_[aaa^]¥\_]a]P¥```\_\_\_\_\_¥S¥\_]\_^`aX^^\_  
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a\_aa[a^a`\_\_aa`\_a^ZXa`\_`\_]`X^¥\_\_^ZX`\_GGPNY  
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aaa\_abaa\_a^^a\_aa^aaaa\_aaaa`aaWZ`aO\_Za\_  
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+HWI-EAS443:3:85:1733:1528#0/1  
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+HWI-EAS443:3:85:1772:788#0/1  
^`aUa\_aaaa\_aa\_`a`a`a^ab^a\_a\_a`^^^\_a\_]¥[`  
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aa¥a`aa`[\_^^W`^^¥^\_a¥\_V^[\_`[[U][V^VZ[^  
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+HWI-EAS443:3:85:298:190#0/1  
a\_¥^abaa`[ab`Z`¥aa^`¥aaa^\_X\_\_¥PTZU^Y\_Y\_  
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+HWI-EAS443:3:85:30:277#0/1  
a\_a\_[¥]`a`^`\_¥FY\_UY]\_`\_¥]UZ]\_]Y\_]UVSS[]  
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a^`babaaaa`aa`]\_aaaa`abbaaa\_`aaa`a`^  
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GACGGATCAAGAAAGAAGAGTTCTCTGAGATCATGAAGAT  
+HWI-EAS443:3:85:612:387#0/1  
aa`ab]]ba¥aV\_aaa`b^b^aaaab`aa\_a\_`abaa`a\_  
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ab\_aaaa]\_aWa`^^`\_`Z`Z\_`\_`\_`^`[ZS¥\_\_V\_[  
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aaaa\_abb`a`baa\_`aaa`aaaababZ[]]\_aa`aaa`a  
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+HWI-EAS443:3:85:645:1722#0/1  
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a`\_\_baaaaaaab`a`a`aa`aaa\_T`ab`aaa`¥^Y  
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GGGTGCCATGCTCAGGATGTTTCTGAACCACTCGGGTTGA  
+HWI-EAS443:3:85:706:1302#0/1  
¥\_^`aa¥¥W^\_T¥^`]\_Z]T`Za\_¥\_\_^\_WW]`\_\_\_\_YY^]  
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^aaaV\_^ZL¥Z¥X\_]U]a¥\_Za\_a¥]Z]\_``]ZY\_\_^[¥a  
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aaaa`aa\_a`aa`\_\_\_\_`^Z\_`^`\_]\_^\_]YY]^^^]X  
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+HWI-EAS443:3:85:784:1610#0/1  
\_]\_`^`\_]\_\_a]aaXL]Y\_`\_aa^^\_\_aa\_``\_`\_`\_`¥`  
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+HWI-EAS443:3:85:787:689#0/1  
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+HWI-EAS443:3:85:891:139#0/1  
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+HWI-EAS443:3:85:961:1735#0/1  
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a\_\_V]aS`ba[U`Wba\_b¥¥V¥RN`a`aZO`a``Q\_]`J¥  
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a¥aa`a\_a\_a`¥aa`\_^`Wq]\_aa\_]aY``\_\_[U\_^]`^`  
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aa`a]¥^^`a]aI^[\_a\_V[^^^`^^`ZY]\_Y¥[[TaZ[Z^  
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+HWI-EAS443:3:86:112:321#0/1  
abaa`a\_aa^`````^T[\_\_\_^^`^\_]`¥X^\_^]Y]ZWZ  
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GAACAATTGAAGAGCCATCTGGGCCGTTGCAGTCCAAGG  
+HWI-EAS443:3:86:1177:1001#0/1  
Z¥¥OV^\_a\_`\_^WZL\_aH]R]aHU^SXVU``[[a]\_LTX  
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+HWI-EAS443:3:86:1235:904#0/1  
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@HWI-EAS443:3:86:1359:658#0/1  
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+HWI-EAS443:3:86:1359:658#0/1  
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+HWI-EAS443:3:86:1376:669#0/1  
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+HWI-EAS443:3:86:1531:1528#0/1  
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+HWI-EAS443:3:86:1540:1783#0/1  
ab\_a`bbabbbaaab`\_aaaa0a`aa\_`a`a^^\_a]^` `^`  
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+HWI-EAS443:3:86:159:1596#0/1  
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+HWI-EAS443:3:86:1689:1237#0/1  
aa\_\_`bba¥aaaaaY^bb]`a`a^Wa[aa]\_\_\_[Q\_]\_\_\_N  
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+HWI-EAS443:3:86:179:397#0/1  
abb^X`aa`aaaaa\_R`a` `^\_a`a^\_]\_a\_`¥\_]`^]  
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]\_ZXTZa`a\_[`W\_]W`\_KZZXZZX\_T\_¥a`WJV\_ZW]  
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U`¥YMO\_¥\_Z[^YSHUYQ\_`a\_[\_¥0]b^`a`WQR^¥G\_b  
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+HWI-EAS443:3:86:288:1809#0/1  
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aa`a`X`Yaa\_`[^¥aa[^]YZ]^\_]Z^\_X^Y\_^YR^Z  
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+HWI-EAS443:3:86:368:355#0/1  
aa¥¥\_`]Z¥TaYZZP^^]TSVS`\_YWUW^\_]^\_a[OMHP¥  
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+HWI-EAS443:3:86:376:77#0/1  
a^`aaa`\_`\_`\_a`\_`\_Z`\_`\_`^`\_Y^]`\_¥]S]^XZ  
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+HWI-EAS443:3:86:433:1271#0/1  
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+HWI-EAS443:3:86:440:1449#0/1  
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+HWI-EAS443:3:86:475:326#0/1  
^^\_`WT`b`\_`\_]a\_`^\_]\_\_\_\_`^b^a`^^`YW^^\_Z]]`  
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+HWI-EAS443:3:86:480:1483#0/1  
aaaaaaaa\_W`a`aaaaa`^a\_\_`\_`a^\_]\_\_\_\_]^`\_`  
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+HWI-EAS443:3:86:497:1069#0/1  
a^]YY`YL¥UUUUU[^`^ZSLS[]¥]USU¥OO]PR[\_I^`  
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@HWI-EAS443:3:86:539:21#0/1  
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+HWI-EAS443:3:86:539:21#0/1  
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+HWI-EAS443:3:86:543:1474#0/1  
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+HWI-EAS443:3:86:605:778#0/1  
aaZaVaa^]Z^W^\_Q¥aa`P¥U`N\_Z^[UZZ^\_\_[P^¥\_¥  
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R`bY`b[ab\_`bbbbbb]abba`bbba\_ab`bbbabbbW  
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+HWI-EAS443:3:86:662:1252#0/1  
aaaab`aa``a\_aa`aa\_[a\_```[a`\_Z`\_`aaaa\_]`  
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+HWI-EAS443:3:86:68:278#0/1  
abbaa`baaa`¥abaaaa`a^0^`a`a``a]\_^[[^]]`  
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+HWI-EAS443:3:86:709:409#0/1  
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+HWI-EAS443:3:86:723:1001#0/1  
Z\_\_\_\_`TaZWZ¥Ua\_0\_U`]a\_a`aa^UU^[`^aaa\_ZZ`  
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+HWI-EAS443:3:86:726:396#0/1  
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+HWI-EAS443:3:86:738:665#0/1  
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+HWI-EAS443:3:86:752:65#0/1  
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+HWI-EAS443:3:86:811:1159#0/1  
]Z¥¥aabb`[`Xaa`Y]a\_`aV``[\_\_aV^^ZXUZ[X[]`\_  
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`ZV¥\_`a`aaa`]aa^`Xa`aa]Ya`a\_`]`^]]aY¥\_\_  
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X\_^`¥WV^\_UbbbbZ^`b`Y^¥a^babTX\_\_\_\_ba`T\_  
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a^D¥]abbbaaa^^a[b^XY]Z\_aaa]YZ^\_[a^a`]Y¥  
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+HWI-EAS443:3:87:1021:181#0/1  
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+HWI-EAS443:3:87:1099:465#0/1  
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+HWI-EAS443:3:87:1143:1092#0/1  
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+HWI-EAS443:3:87:1151:486#0/1  
aa]Y[[]`aaU\_a¥V\_a`\_¥a\_\_Z¥\_a[[]`\_`\_]\_ZO[  
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+HWI-EAS443:3:87:1187:764#0/1  
aX¥U[[]`\_`\_a\_] [YY\_V¥\_]TZ`]\_]¥a\_^ZZ]]\_]VY  
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+HWI-EAS443:3:87:118:668#0/1  
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+HWI-EAS443:3:87:1522:313#0/1  
`b]]^`ba\_aa]aa\_aa\_\_`]]`a¥\_UY\_\_`\_\_\_\_]Y^\_  
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\_^\_a]`\_¥\_¥Yabbb`T`abbaV]^aaaUEY^`Xa\_]^  
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GACGGATCAAGAAAGAAGAGTTCTCTGAGATCATGAAGAT  
+HWI-EAS443:3:87:1627:1504#0/1  
aa]aaaa^aaa¥aaaaa`aa\_a\_aYaa`adWN\_a``\_\_\_\_`  
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+HWI-EAS443:3:87:163:1622#0/1  
a\_]aaa`a``\_\_\_\_aYQZ]^\_\_a`\_Y^a^\_\_`\_\_Z\_¥¥]  
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+HWI-EAS443:3:87:1672:1854#0/1  
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+HWI-EAS443:3:87:1752:1213#0/1  
ab¥¥¥]\_b^`bab`a^Y`aa`^a¥S¥```^`a\_¥\_[\_a¥^  
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+HWI-EAS443:3:87:213:402#0/1  
aaaa`aa`\_a\_a`aaa`a`\_a`\_`^\_\_`\_\_]^`^\_Y^\_`YX  
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+HWI-EAS443:3:87:253:1733#0/1  
V^¥][W^a¥\_Q\_`¥``ZU\_`aZ`^D^X¥[Y]ZXVXP[US\_  
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+HWI-EAS443:3:87:31:246#0/1  
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@HWI-EAS443:3:87:673:620#0/1  
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+HWI-EAS443:3:87:673:620#0/1  
`baVabbbabaaa\_baa``aaaa`aaaa`\_abaa]`a]  
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+HWI-EAS443:3:87:712:69#0/1  
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@HWI-EAS443:3:87:742:1477#0/1  
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+HWI-EAS443:3:87:742:1477#0/1  
`Y\_V\_XYVLR`]\_YZW¥XV[QWaa`[]ZYOTMQQT¥FY\_  
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^[bba[ZW^\_a[bb]b[aba[bbS````V[R[^\_b^aa\_  
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+HWI-EAS443:3:87:826:318#0/1  
a]a`]Y`aaa`Zb¥¥aaQTLW]S]¥Y\_\_`¥Z`\_ZT[WW^  
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TGATAAAGAACAACATGATAAACAATGACCTTGACCTGC  
+HWI-EAS443:3:87:83:232#0/1  
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+HWI-EAS443:3:87:870:310#0/1  
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+HWI-EAS443:3:87:905:836#0/1  
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+HWI-EAS443:3:87:921:1664#0/1  
`a\_``^``\_aaY\_aa`aa^W`\_a`a`]`¥^`\_`\_`Va¥^¥  
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+HWI-EAS443:3:87:927:1691#0/1  
aaaba¥`b\_bbaabaa`a\_^a`a\_a\_aa`[\_a^\_```Va  
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+HWI-EAS443:3:87:96:663#0/1  
^a`^`^`ZJ]`\_^a]aaX`a^]a\_a\_¥Zabaaa\_Y^^^`  
@HWI-EAS443:3:87:998:742#0/1  
CAAGAATCCCCTTTGGCTTGTGTTGAGAATAGAACGATT  
+HWI-EAS443:3:87:998:742#0/1  
abb`a^bbba\_aabbab\_bb\_aaaaXSaaaa\_aa`¥`^  
@HWI-EAS443:3:88:1056:1817#0/1  
GTTGATCCCACTAACTTGCAGGTCCTGTAGAATCTGTCC  
+HWI-EAS443:3:88:1056:1817#0/1  
^a`aabbbaababaaaabb`bba\_aRab^abbaa``b[Ya  
@HWI-EAS443:3:88:1070:1218#0/1  
CAGTGATTGTGAAAGAAATCTCTGTGTCTTGTGAATTAGT  
+HWI-EAS443:3:88:1070:1218#0/1  
\_Z\_]aabb`\_]`¥aa]`\_`^a^\_Z¥]]aa]G[XS¥^\_X`T  
@HWI-EAS443:3:88:1102:945#0/1  
ATATCCATGCTTTTTGGCTGGACCATGGGCTGGCATTACC  
+HWI-EAS443:3:88:1102:945#0/1  
aa\_aaaaaab`aaa^`ba`\_a[\_\_\_]`][[^]aa^\_]`\_WX  
@HWI-EAS443:3:88:1134:1511#0/1  
AAGACAATATACTGGTGGGATGGGCTCCAATCATCCGACG  
+HWI-EAS443:3:88:1134:1511#0/1  
aaaaaaabbaa^aaaYaaa^`^`^`]a`a][[a^^a\_Xa  
@HWI-EAS443:3:88:1160:786#0/1  
TCCCAGGTGTTGCGATAGCCCTTCTTTTTAACTTGCCTCT  
+HWI-EAS443:3:88:1160:786#0/1  
``a`]abZ`b^WZbZ\_ab\_\_aa`Xaaaa\_\_]\_aaaQ\_^a  
@HWI-EAS443:3:88:1178:390#0/1  
GGGAAAGTGGACGACAAACACAGAGACTGGTGCACCCAG  
+HWI-EAS443:3:88:1178:390#0/1  
aaa\_aab¥\_b\_¥aa`aa`X]¥`\_¥]UU^U¥W¥U^¥S¥W¥¥  
@HWI-EAS443:3:88:120:1349#0/1  
GTCTTGCCATTTTGTGTTGAGAACATTATGGGTGCCATGCT  
+HWI-EAS443:3:88:120:1349#0/1  
aYaaa`\_\_aaa]`aaaaaa`^aaaa`^YV`]``\_¥[  
@HWI-EAS443:3:88:1234:1413#0/1  
CTAACTTGCAGGTCCTGTAGAATCTGTCCACTCCTGCTTG  
+HWI-EAS443:3:88:1234:1413#0/1  
]b\_aaabbaabbUVaYb\_bb`a`P`aaa`\_]`^W^abXR]a  
@HWI-EAS443:3:88:1242:664#0/1  
GCTAATTTTAGCATGGAGCTACCCAGCTTTGGAGTGTCTG  
+HWI-EAS443:3:88:1242:664#0/1  
aaaaaabbbbaa]aaa`\_a`\_a`\_\_a]a`\_a[X\_X\_[\_]`

@HWI-EAS443:3:88:1281:1425#0/1  
GCATTTGCGAAAAGCTTGAACAGTCTGGGCTCCCAGTAGG  
+HWI-EAS443:3:88:1281:1425#0/1  
\_a\_VX[``^P\_^`aa`TZ`a`\_`aa^U`\_`VQTQL[^  
@HWI-EAS443:3:88:1289:1437#0/1  
ATGAGAGCAAAATCGTCGGATGATTGGAGCCCATCCCACC  
+HWI-EAS443:3:88:1289:1437#0/1  
I]¥W\_Xb]b`a`bbbbb^[\_[]bbbK`aMQa^VWZbGX  
@HWI-EAS443:3:88:1419:163#0/1  
CAATCGGGTTGAGCTGGGGTGCACCAGTCTCTGTGTTTGT  
+HWI-EAS443:3:88:1419:163#0/1  
abaabbbbabbbbab`^^^bbbab`aaab]ab\_bab`b]  
@HWI-EAS443:3:88:1425:566#0/1  
CCACTACCTGAGGATAATGAACCAAGTGGGTATGCACAAA  
+HWI-EAS443:3:88:1425:566#0/1  
aaXaSSYL0[]\_Yba^`a]T`a]]`bab¥^^aTOK\_XT  
@HWI-EAS443:3:88:148:1138#0/1  
TGTCCCAGTGATTGTGAAAGAAATCTCTGTGTCTTGTGA  
+HWI-EAS443:3:88:148:1138#0/1  
]babbababaaa^]\_^aaaabaa`ba``abZ[¥\_a^\_aU  
@HWI-EAS443:3:88:1512:1661#0/1  
GATTTCTTTTACAATCACTGGGACAACACTAAGTGGGAAT  
+HWI-EAS443:3:88:1512:1661#0/1  
aaaab\_aabaa\_baaaa\_aa`a`^a```a\_a`\_b]a[TXa  
@HWI-EAS443:3:88:154:732#0/1  
GGCCCGGATTGATGCCAGGGTCGACTTCGAGTCTGGACGG  
+HWI-EAS443:3:88:154:732#0/1  
``\_a``¥^^``aababa]]L^aa`^[[^]J]`^^`  
@HWI-EAS443:3:88:1553:2029#0/1  
AGCCCTTCTTTTAACTTGCCTCTCTCTGCATCTTTGGTC  
+HWI-EAS443:3:88:1553:2029#0/1  
a][T\_aa`aaa^a\_a^\_]\_\_a]`\_`\_aa^\_\_^`\_`¥Z]  
@HWI-EAS443:3:88:1560:1058#0/1  
AGTGAATGCACCAAACCATGAGGGAATACAAGCAGGAGTG  
+HWI-EAS443:3:88:1560:1058#0/1  
aaH`bbbaaba\_a]b]aabaaa¥aaaaa]aa`a\_b^`aZb  
@HWI-EAS443:3:88:1619:1331#0/1  
CTTGGGAGTCTCGATACTGAATCTTGGACAAAAGAAATAC  
+HWI-EAS443:3:88:1619:1331#0/1  
X^aaabba^a`^`ab^[aa^baaa^aaab\_aa^`bbba`  
@HWI-EAS443:3:88:1624:181#0/1  
TTTAGATCGAATGGCCTAACAGCTAATGAGTCAGGAAGGC  
+HWI-EAS443:3:88:1624:181#0/1  
^^Xa]Z```]ZV`WUJ`\_[OQVF¥YYU^\_a]SVSWUSWFJ  
@HWI-EAS443:3:88:1672:130#0/1  
GATTGATGCCAGGGTCGACTTCGAGTCTGGACGGATCAAG  
+HWI-EAS443:3:88:1672:130#0/1  
a`b`baa[a[```]YbaNaa`Wa`R`]\_\_¥aa¥\_W^[a  
@HWI-EAS443:3:88:1677:279#0/1  
CTGGACGGATCAAGAAAGAAGAGTTCTCTGAGATCATGAA

+HWI-EAS443:3:88:1677:279#0/1  
^¥]UUbba\_UbbbaU`aaabab`b\_b\_\_KZbb`\_abbbZ  
@HWI-EAS443:3:88:168:759#0/1  
AAAAGCTTGAACAGTCTGGGCTCCCAGTAGGGGCAATGA  
+HWI-EAS443:3:88:168:759#0/1  
^Yaabaaaba^`Za]`a`\_a`^`^`W¥`\_`\_`[\_`\_`\_`V  
@HWI-EAS443:3:88:1691:1655#0/1  
ATCTGGGCCGTTGCAGGTCCAAGGTCATTGTTTATCATGT  
+HWI-EAS443:3:88:1691:1655#0/1  
ab`\_a¥aUZaZRa¥aaa\_^[\_`\_a^XNUa\_b^\_a\_a]W^\_Y  
@HWI-EAS443:3:88:1702:871#0/1  
AAAAATTCCAGCGCAAATGCCATAAGCACCATTCCT  
+HWI-EAS443:3:88:1702:871#0/1  
a^Y\_\_^a`Sab]¥Z\_aa]Z`\_`a[\_]T\_a`\_\_\_\_a\_]U¥\_  
@HWI-EAS443:3:88:1727:1208#0/1  
TATGGCTTTCCTTGAAGAATCCCACCCAGGAATATTTGAG  
+HWI-EAS443:3:88:1727:1208#0/1  
\_babaaaba¥a`a^]a`aa`WYPZZQY`X\_Y]`a`\_^\_  
@HWI-EAS443:3:88:1751:1128#0/1  
AAAAATTCCAGCGCAAATGCCATAAGCACCATTCCT  
+HWI-EAS443:3:88:1751:1128#0/1  
aba^aaa^`aa[\_a`\_aa`^^`aa\_H`a\_U\_\_^\_\_]WVa  
@HWI-EAS443:3:88:214:311#0/1  
GGCTATCGCAACACCTGGGATGCAGATTAGAGGTTTCGTA  
+HWI-EAS443:3:88:214:311#0/1  
¥`abaa¥`\_`bb¥X^babbaaa`PYZab]^`\_¥0`ba]Y`  
@HWI-EAS443:3:88:216:886#0/1  
CAGTCTTTGTTTTTCTTCCCTATTGTTCTTTGCGTGACC  
+HWI-EAS443:3:88:216:886#0/1  
`\_]\_Zabbabaa`aa`aaaaaaaa`aa\_\_\_aa`aaa^aWZ]  
@HWI-EAS443:3:88:239:1075#0/1  
CTTTCCTTGAAGAATCCCACCCAGGAATATTTGAGAATTC  
+HWI-EAS443:3:88:239:1075#0/1  
```]Zaa\_aa`\_^aa`a`\_a`\_`[^`¥\_]\_\_`[Y\_^  
@HWI-EAS443:3:88:270:1095#0/1
CATTGAAGTACTTCAGGTCAATGCTTGCTAGCATTCTGC
+HWI-EAS443:3:88:270:1095#0/1
a]`_`a^a]a`a`a___^a`TY_^_¥`a`_`_`_^_]^_
@HWI-EAS443:3:88:285:1702#0/1
GAAGAGCCATCTGGGCCGTTGCAGGTCCAAGGTCATTGTT
+HWI-EAS443:3:88:285:1702#0/1
K`]Wb^aba`abbbabab_bb[bZUObaba]_[_ab_b¥0
@HWI-EAS443:3:88:286:1010#0/1
CTAGGGAAAGGGTACATGTTTCGAGAGTAAAAGAATGAAGA
+HWI-EAS443:3:88:286:1010#0/1
``[^`_`[¥Z_]¥YaYU^aV[]¥^a_aS]T^^[[[]`_[RX]
@HWI-EAS443:3:88:287:92#0/1
GGAGTAAATGAATCAGCTGACATGAGTATTGGAGTAACAG
+HWI-EAS443:3:88:287:92#0/1
ab`a_¥a___aa^__`__`_]a`_`¥_X^_^_[W`S]YXX^

@HWI-EAS443:3:88:374:848#0/1
GGTGCTTATGGCATTGCGCTGGAATTTTAGGAAAAGT
+HWI-EAS443:3:88:374:848#0/1
a`_aaaaaaaaaaaa`aaaaaaaa`¥`aaa`a[Z_```W
@HWI-EAS443:3:88:37:373#0/1
TTGGACATTAACAGAAATCAACCGGCAGCAACTGCATTG
+HWI-EAS443:3:88:37:373#0/1
`bba^`[abaaa`a]Xa`a`^`aaaaaa]Z¥`¥][¥__a
@HWI-EAS443:3:88:402:1309#0/1
TTCCGAGTCTGGACGGATCAAGAAAGAAGAGTTCTCTGAGA
+HWI-EAS443:3:88:402:1309#0/1
a]a_abHa`[Y_]GX^`a_a_`_____U`_G¥_`^_Y_^
@HWI-EAS443:3:88:484:1691#0/1
AACAAAGTATACGAAACCTCTAATCTGCATCCCAGGTGTT
+HWI-EAS443:3:88:484:1691#0/1
^`^ba^a_W¥`bb]a`ba]`abUabaaaZXUI_b]X`U¥
@HWI-EAS443:3:88:48:2013#0/1
AAAAATTCCAGCGCAAATGCCATAAGCACCATCCCT
+HWI-EAS443:3:88:48:2013#0/1
`ZV^VI_[F^VW¥_`aXUUW[Z¥^_W[Y`Y^ZRvVZ^WV
@HWI-EAS443:3:88:493:105#0/1
AATCAATGAACAAAGAGGAAATAGAGATAACAACCCACTT
+HWI-EAS443:3:88:493:105#0/1
¥[]ZaWbW`]ZS¥_¥a_M]]^`aa[]Q__XTR[^]Z[`
@HWI-EAS443:3:88:572:1653#0/1
GAACAATTGAAGAGCCATCTGGGCCGTTGCAGGTCCAAGG
+HWI-EAS443:3:88:572:1653#0/1
abbb_bba`ababbabbT]a_`aaa]`_aa^_Za_a``a
@HWI-EAS443:3:88:591:292#0/1
CACCCAGGAATATTTGAGAATTCATGCCTTGAACAATGG
+HWI-EAS443:3:88:591:292#0/1
abbabbaa`bbbabbba`a_`aa_baa^babb`bababbb
@HWI-EAS443:3:88:615:47#0/1
GGTGCATTCACTATGAGAGCAAATCGTCGGATGATTGGA
+HWI-EAS443:3:88:615:47#0/1
W^DMRTUU_N]Z[_ba_^_M_¥P^^Z]XY_a`b]GN]`]T
@HWI-EAS443:3:88:671:1060#0/1
ATCCCTCATGGTTTGGTGCATTCACTATGAGAGCAAAT
+HWI-EAS443:3:88:671:1060#0/1
SQ_[`bZaNU]XZ`aU[_b_U_`V^^UXbaZ_V`Sa][R
@HWI-EAS443:3:88:674:530#0/1
CTGTTTACTGTGTCCATGGTGTATCCTGTTCCCTGTTCCAT
+HWI-EAS443:3:88:674:530#0/1
aabbbbbbababbbbbbbbaababbb_bbabb_bbaba]¥b
@HWI-EAS443:3:88:678:1143#0/1
AAATCAACCCGAGTGGTTCAGAAACATCCTGAGCATGGCA
+HWI-EAS443:3:88:678:1143#0/1
abaa_aaaaa`a]a_Y_¥^]`_aa^`[^__`^^T]_
@HWI-EAS443:3:88:709:1597#0/1
CACTGACATTAATACGATGACCAAAGATGCAGAGAGAGG

+HWI-EAS443:3:88:709:1597#0/1
`bab^^ab_bab`W`b¥bbab]^bWbab_b` ``b¥aa^aa
@HWI-EAS443:3:88:710:1623#0/1
GTGGGATTCTTCAAGGAAAGCCATAGCCTCTAGAACACAG
+HWI-EAS443:3:88:710:1623#0/1
a[bZ¥Z0¥Z¥Ta_aa[IO`XUQMa_XU`^a[VTSWS¥YY^
@HWI-EAS443:3:88:715:208#0/1
GGCCCCGATTGATGCCAGGGTCGACTTCGAGTCTGGACGG
+HWI-EAS443:3:88:715:208#0/1
`[¥TX`R`V]VVYNOQ^_VNU¥ZUVXTRXX^XPVY[TRZZ
@HWI-EAS443:3:88:790:2017#0/1
GACCAAAGATGCAGAGAGAGGCAAGTTAAAAAGAAGGGCT
+HWI-EAS443:3:88:790:2017#0/1
U_bba`¥bb`bbaaab^aabab_[^babab`bbababUa
@HWI-EAS443:3:88:792:375#0/1
CTTGGGAGTCTCGATACTGAATCTTGGACAAAAGAAATAC
+HWI-EAS443:3:88:792:375#0/1
abbbbbbbbabababbabbaababaaaa_baaabaaaaaa
@HWI-EAS443:3:88:794:353#0/1
ATAGGAGACCGTTGGAATTTCTAGCATGGTGGAGGCCAT
+HWI-EAS443:3:88:794:353#0/1
_`Z_aT`^a[]_R_bab^[^aa`a]aaabb`aZ[]`JXaX
@HWI-EAS443:3:88:796:1445#0/1
GGGCTCCAATCATCCGACGATTTTGCTCTCATAGTGAATG
+HWI-EAS443:3:88:796:1445#0/1
]ba_`bbabab`]bZ]Ubabbbbaab` `a^ba`b`^`]_`
@HWI-EAS443:3:88:842:301#0/1
TGAATCTTGGACAAAAGAAATACACCAAGACAATATACTG
+HWI-EAS443:3:88:842:301#0/1
_TTNPV` [aTUSYNSNXRYR]_S__^^`¥KOZU[¥PUIZY
@HWI-EAS443:3:88:896:844#0/1
TGTCAATCCGACTCTACTTTTCCTAAAAATCCAGCGCAA
+HWI-EAS443:3:88:896:844#0/1
aaaaabbbab^Yabbabbbb` `aabb_ab` `abaa`_bb
@HWI-EAS443:3:88:912:501#0/1
GTGATGCTGTGCCATCTATTAGAAGAGGCCTTATTTTCTC
+HWI-EAS443:3:88:912:501#0/1
a^aaaaaaa^aa_aa`aa`aaa`]__`a_¥a^_aaa__`_`
@HWI-EAS443:3:88:938:1813#0/1
AAGAACAACATGATAAACAATGACCTTGGACCTGCAACGG
+HWI-EAS443:3:88:938:1813#0/1
^babaaa¥_Z[W¥ab`_`a[`bXP¥P`YaaUa^aababP`
@HWI-EAS443:3:88:957:552#0/1
GGATGGGCTCCAATCATCCGACGATTTTGCTCTCATAGTG
+HWI-EAS443:3:88:957:552#0/1
ab`aaaaaaaaa]` `aa^`]V^a`aaa_`` `a` `` `a^a
@HWI-EAS443:3:88:96:377#0/1
GTGGGATGGGCTCCAATCATCCGACGATTTTGCTCTCATA
+HWI-EAS443:3:88:96:377#0/1
a^a`a`_aaaa_a^V`_aa^__aU_a____`]` ^^Z__^W¥

@HWI-EAS443:3:88:98:1066#0/1
GTCCTCCATCTGATACTAATAGCCCTACCTTTGATTGGGT
+HWI-EAS443:3:88:98:1066#0/1
NK_a¥^bbYbbZb^^]aY`_]¥aaYaa[a_aaaaa]__
@HWI-EAS443:3:88:992:1533#0/1
ACTCATTAGCTGTTAGGCCATTTCGATCTAAAGACTTCTAT
+HWI-EAS443:3:88:992:1533#0/1
`aa_QTaaaa`^a_`V]SXaaXT`UR¥`W_]LV__^O_BB
@HWI-EAS443:3:89:1008:304#0/1
CCTGGATTCCCAAGAGGAATCGTTCTATTCTCAACACAAG
+HWI-EAS443:3:89:1008:304#0/1
abbbbbba_a`aaa^abaaaababababbbba^`aaaa_`_
@HWI-EAS443:3:89:1012:614#0/1
TGATGGACCACTACCTGAGGATAATGAACCAAGTGGGTAT
+HWI-EAS443:3:89:1012:614#0/1
abbab]TMWaTaaa```aa_^aa__aY[UPa`aR^`^Oa_
@HWI-EAS443:3:89:1019:1986#0/1
ATTGATGCCAGGGTCGACTTCGAGTCTGGACGGATCAAGA
+HWI-EAS443:3:89:1019:1986#0/1
aaa_]`^aaa^_¥Ra___^¥__Z]UUa[R^Z`_`N^``PS
@HWI-EAS443:3:89:1030:1748#0/1
CTCCAATCATCCGACGATTTTGCTCTCATAGTGAATGCAC
+HWI-EAS443:3:89:1030:1748#0/1
^^^¥a`bbb`_a````babbbba^aaababZb`aaa]^W
@HWI-EAS443:3:89:1046:1550#0/1
GTGTTCTGTTTACTGTGTCCATGGTGTATCCTGTTCTGT
+HWI-EAS443:3:89:1046:1550#0/1
`^b_aaaa`baa`ab_a_a]a`_a]^Ya`_Z^__a¥`a__
@HWI-EAS443:3:89:1079:79#0/1
AAAAATTTCTCGAATAGATTGCAGCACTTCTGGTACATCT
+HWI-EAS443:3:89:1079:79#0/1
aaaaabba`a]a`ab`aa``a__`]_]`_^a```_]`[_T^
@HWI-EAS443:3:89:1081:1238#0/1
CAAGAATCCCCTTTGGCTTGTGTTGAGAATAGAACGATT
+HWI-EAS443:3:89:1081:1238#0/1
`a[^`XV_TZ]`b[`aba¥`^]¥ZUZ¥V][`_TVUOS
@HWI-EAS443:3:89:1084:761#0/1
CTGGGCTCCCAGTAGGGGCAATGAAAAGAAGGCCAAACT
+HWI-EAS443:3:89:1084:761#0/1
a_baa`_b```aU_bb`aaa]abaa]^ZU`aaaa`]a`^b
@HWI-EAS443:3:89:1096:1189#0/1
ATGGAATCAATGAACAAAGAGGAAATAGAGATAACAACCC
+HWI-EAS443:3:89:1096:1189#0/1
`[b^]¥¥a_b^a^V`¥XZ`LU`YV[``_¥`][``_`aXYU_
@HWI-EAS443:3:89:1118:702#0/1
CGGATTGATGCCAGGGTCGACTTCGAGTCTGGACGGATCA
+HWI-EAS443:3:89:1118:702#0/1
abbabbbabababbbb_abbabaabab`abbaabaaaaa
@HWI-EAS443:3:89:1185:477#0/1
ATTTTGTGTTGAGAACATTATGGGTGCCATGCTCAGGATGT

+HWI-EAS443:3:89:305:2043#0/1
ab_aaa`a`b^a_ab`ba^aa^^Y^_a_aaRPW`__WWLL
@HWI-EAS443:3:89:347:1254#0/1
GAGCTAATGGATGATGATTATCGGGGAAGACTTTGTAATC
+HWI-EAS443:3:89:347:1254#0/1
aa`aa`aaaaa^¥aaaa`a_`^I^]Y^_a]]a^[^
@HWI-EAS443:3:89:37:1094#0/1
GGAGCCCAGACTGTTCAAGCTTTTCGCAAATGCTCCTAGC
+HWI-EAS443:3:89:37:1094#0/1
aa`aaaa`a]^aa]``]``_``_]_^Y¥^__^]^_^^
@HWI-EAS443:3:89:384:1024#0/1
TACTGGGAGCCCAGACTGTTCAAGCTTTTCGCAAATGCTC
+HWI-EAS443:3:89:384:1024#0/1
¥WU¥`baa^W_UVW_Mab¥b_`¥V`]]b¥P_`]]`PO¥]X
@HWI-EAS443:3:89:425:49#0/1
ATTGATGCCAGGGTCGACTTCGAGTCTGGACGGATCAAGA
+HWI-EAS443:3:89:425:49#0/1
abbababaaabbbXaaaa_a_aaaW_`ba_]``YTQ_X`^
@HWI-EAS443:3:89:470:1943#0/1
ATTGATGCCAGGGTCGACTTCGAGTCTGGACGGATCAAGA
+HWI-EAS443:3:89:470:1943#0/1
V_a__I__`_b]aQQ_b_R_U_b`P]b^Y^YXXZaaaaa`
@HWI-EAS443:3:89:50:1612#0/1
TTGTGGCTAATTTTAGCATGGAGCTACCCAGCTTTGGAGT
+HWI-EAS443:3:89:50:1612#0/1
`ZVQ`¥b]`b¥_]][`aSZ][V[a^]^_¥GSa_`¥SYRYW
@HWI-EAS443:3:89:565:1012#0/1
CAGGAACAGGATACACCATGGACACAGTAAACAGAACACA
+HWI-EAS443:3:89:565:1012#0/1
¥_¥Y`^a[`a¥a_ba¥ab`a`bbbb_baabab``^_bab
@HWI-EAS443:3:89:592:1734#0/1
GAGAAAATAAGGCCTCTTCTAATAGATGGCACAGCATCAC
+HWI-EAS443:3:89:592:1734#0/1
_¥a^ab`b`a¥^`aa_baaba^a_aaa`ab__aa_a_[]`Q
@HWI-EAS443:3:89:609:1261#0/1
CTGGGATGCAGATTAGAGTTTTCGTATACTTTGTTGAAAC
+HWI-EAS443:3:89:609:1261#0/1
aXa_b¥KQVQ`a_aXSYY_S^¥a`Rb]TNZ^^^YU]_[[`
@HWI-EAS443:3:89:624:1901#0/1
ACCCAGGAATATTTGAGAATTCATGCCTTGAAACAATGGA
+HWI-EAS443:3:89:624:1901#0/1
a`]b_Y¥`aa`__`a_a`S`_]Y`[S]a`R]_b[___]^
@HWI-EAS443:3:89:629:1456#0/1
GCTCCAATCATCCGACGATTTTGCTCTCATAGTGAATGCA
+HWI-EAS443:3:89:629:1456#0/1
aa`ZaaYYUaP[Z`_^`_`¥`abG^UZ^^V_W[IOY__R[
@HWI-EAS443:3:89:65:1745#0/1
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HV_bbb_bba`Y¥VZ`^a¥`b¥Z^Q_bbb``aaXYaVa]Y

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+HWI-EAS443:3:89:666:438#0/1
^`b^¥ZbbabaY_bbaJaa[bbb_`]T_^b_b`^abaS]a
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+HWI-EAS443:3:89:680:527#0/1
a`Vaa`aa``a`a`aYa_aa_`_`¥a___a__`a`^R_]Y
@HWI-EAS443:3:89:699:1749#0/1
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+HWI-EAS443:3:89:699:1749#0/1
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@HWI-EAS443:3:89:720:125#0/1
GGAAAGTGGACGACAAACACAGAGACTGGTGCACCCCAGC
+HWI-EAS443:3:89:720:125#0/1
aaaaaa]aa_`aa`aa`_a^_a`_`¥^^_¥aW_¥PUS]_U
@HWI-EAS443:3:89:722:1724#0/1
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+HWI-EAS443:3:89:722:1724#0/1
Z¥[S^a0[V`_] [Laa]bPX`a^_`T]]NQR[[L[TK
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+HWI-EAS443:3:89:727:1080#0/1
aaaaaa__aaba_aaaa``abaa_^`a`aaa_aaa__a__
@HWI-EAS443:3:89:754:1227#0/1
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+HWI-EAS443:3:89:754:1227#0/1
aaaaaaaa`aa_a`_aa`aa__a`_```aa_a^_WK[`_
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+HWI-EAS443:3:89:789:749#0/1
[¥a`aaa``aaba`a_aaaaab_aZb__[aaa`_V`_aa`
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+HWI-EAS443:3:89:802:1686#0/1
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@HWI-EAS443:3:89:862:1814#0/1
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+HWI-EAS443:3:89:862:1814#0/1
aaab_`¥_bb]]abbab_¥abaa_aaU`aM`aa_ab]`aa
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+HWI-EAS443:3:89:922:1240#0/1
_VZ`_abb`bbaabaa^bbbbbbaaaaaabababaa
@HWI-EAS443:3:89:925:1750#0/1
CAGTGATTGTGAAAGAAATCTCTGTGTCTTGTGAATTAGT
+HWI-EAS443:3:89:925:1750#0/1
`ba]a`aba`__abaaababa`aa¥a_aa_aNWF¥_a^_]`
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+HWI-EAS443:3:89:926:947#0/1
ZX¥Y`b^XZ`H_N¥`a_U[MTYSYXW_____RRN`__^
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+HWI-EAS443:3:89:933:1846#0/1
aa_¥]ba_aa_aaaaa`a[aa_aaa_^[\`W`^a`_`_`Z`
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+HWI-EAS443:3:89:937:1051#0/1
^)`aabbaabaaba[\`aa`baaaaa_[aYa[VW` `[DW_a
@HWI-EAS443:3:89:940:949#0/1
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+HWI-EAS443:3:89:940:949#0/1
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@HWI-EAS443:3:89:956:308#0/1
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+HWI-EAS443:3:89:956:308#0/1
ab^¥_¥aZaZ`_]a[_V_^a]Y_a_Y^]¥]a`¥`aZ[¥`
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`_^¥YaWaZ¥`a`__XN]^__]WPKUXS[^LGN¥^X]GUZ
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+HWI-EAS443:3:89:979:618#0/1
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@HWI-EAS443:3:89:998:337#0/1
AGAATCTGTCCACTCCTGCTTGTATTCCCTCATGGTTTGG
+HWI-EAS443:3:89:998:337#0/1
a^aba`_aa]a¥T_]`aZX]^_aaa]¥Z^[Y`bZYa¥X_
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+HWI-EAS443:3:8:104:370#0/1
[[b¥aaa`UZ_aa]aY`T_URTSXT]a_]X¥NTZZ][VYV
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+HWI-EAS443:3:8:1078:1766#0/1
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+HWI-EAS443:3:8:109:1086#0/1
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+HWI-EAS443:3:8:1125:1127#0/1
aaaa`a_ba^aa__`aaaa`^_aaX_a`^^^X]X]X^[

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+HWI-EAS443:3:8:1135:933#0/1
a]¥UPV^_Y]aY^VRaaa`aX_`a__[]`aX_T_^]__^¥
@HWI-EAS443:3:8:1155:1182#0/1
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+HWI-EAS443:3:8:1155:1182#0/1
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+HWI-EAS443:3:8:1161:633#0/1
ab`aa`_^_a`[aaaa_b_abb_ba¥b`aa`[_a`_`_a`a
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+HWI-EAS443:3:8:1163:715#0/1
abbbbaabaaaa`babaa`aabba_aba^aaa___a`W_
@HWI-EAS443:3:8:1183:1074#0/1
CATGCTCAGGATGTTTCTGAACCACTCGGGTTGATTCTG
+HWI-EAS443:3:8:1183:1074#0/1
ab`^`bbaba¥`bWW`ba]a[¥]`][ab`__```aa^a¥
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+HWI-EAS443:3:8:1204:769#0/1
aaa[aaaa^aaaabaa_a]aa`_aa`_]a]]_`^`^TX_`
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+HWI-EAS443:3:8:1205:841#0/1
a^Za_b_Z¥a`]a`a[`aZaR¥T`[a[RaV_^WWYR¥VPT
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+HWI-EAS443:3:8:1263:522#0/1
aaXaaaaaa`aSbaaU]a]]`^SP^aWaZ`^__a¥S`S¥a
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+HWI-EAS443:3:8:1266:549#0/1
aa`bb``aaU^aW_X]baa__]a[SS`_`_a`¥T`___V_W
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+HWI-EAS443:3:8:1279:1092#0/1
^^`¥a¥[`¥_a`_]N]a]X`aa`_`_TY][XZZ¥WDVW
@HWI-EAS443:3:8:1291:153#0/1
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+HWI-EAS443:3:8:1291:153#0/1
aa]`Ra_U_TZ_aaaX`X^S^¥`^X^]]^X¥¥]WYWX^X
@HWI-EAS443:3:8:1326:1319#0/1
CACAGTAAACAGAACACACCAATACTCAGAAAAGGGAAAG
+HWI-EAS443:3:8:1326:1319#0/1
_¥bbb[babb`abaaa`b]b_Vbba¥a^_babbbb¥^_bb
@HWI-EAS443:3:8:1328:770#0/1
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@HWI-EAS443:3:8:1694:46#0/1
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+HWI-EAS443:3:8:1694:46#0/1
aa¥¥bYa` [`aaaa_YP[¥a[U]]R]]^ [NVSYZVVBB
@HWI-EAS443:3:8:1733:1081#0/1
TAGCCCTTCTTTTTAACTTGCCTCTCTGCATCTTTGGT
+HWI-EAS443:3:8:1733:1081#0/1
`aaa`_aaZbaaaaa_`aa^_aUa^`^`^¥_aU`]_¥_]
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+HWI-EAS443:3:8:1760:1314#0/1
`HPa`TS]]WQT][YX^]_ [F[]RWTYQVVGSLWXXVWMV
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+HWI-EAS443:3:8:1785:1735#0/1
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@HWI-EAS443:3:8:195:1458#0/1
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+HWI-EAS443:3:8:195:1458#0/1
aa`aaa_`b_`aa`a_a`aaa^_a`aaa`a` ``_`a`_]_
@HWI-EAS443:3:8:205:1429#0/1
CTCCCCTATGGCACCTATATGTGTATCTGTAGTCTTTGAT
+HWI-EAS443:3:8:205:1429#0/1
`UbbababV]U^b`babV`^¥_aSa_a_bY[`W`^SP¥aZ
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GTCTTGCCATTTTGTGAGAACATTATGGGTGCCATGCT
+HWI-EAS443:3:8:206:590#0/1
aYa¥aaa¥X_aa]^Xa`^P_W`_`_`_`^^`W^VQSZXRY
@HWI-EAS443:3:8:239:105#0/1
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+HWI-EAS443:3:8:239:105#0/1
aba^abab`a`a` `bQb¥`S]Zaa_aQba_ [¥aa^SU` ¥¥
@HWI-EAS443:3:8:255:966#0/1
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+HWI-EAS443:3:8:255:966#0/1
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+HWI-EAS443:3:8:294:151#0/1
aa_`__]_a_`aYY[_` `UTV_`ZZPWW^Y[VY]TTX[TG
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+HWI-EAS443:3:8:341:1590#0/1
aaaaa_`abaa`]¥S[aaaa^aaGa`^¥a^]`V]]¥_`_¥
@HWI-EAS443:3:8:370:842#0/1
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+HWI-EAS443:3:8:370:842#0/1
abbbaa_aabbaaa` `a_b_a_`a__`_` ``_`_a_ [__a
@HWI-EAS443:3:8:389:1388#0/1
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+HWI-EAS443:3:8:389:1388#0/1
a]aVXY^_^V^__`_]¥_W^^ZZ_TW^WM^YS^ZXOV]U
@HWI-EAS443:3:8:40:888#0/1
CGCAAAGAACAATAGGGAAGAAAAACAAGACTGAATAA
+HWI-EAS443:3:8:40:888#0/1
aaaaaa^S_a`_a_aa`^aa`____[``_`_a``_a__`__
@HWI-EAS443:3:8:411:752#0/1
TAGTGGTCCATCAATCGGGTTGAGCTGGGGTGCACCAGTC
+HWI-EAS443:3:8:411:752#0/1
aaaT_aUa__a`a`_^aa`¥`¥^U^^¥^`W^U`]]__UZ
@HWI-EAS443:3:8:418:731#0/1
ATCCCACCCAGGAATATTTGAGAATTCATGCCTTGAACA
+HWI-EAS443:3:8:418:731#0/1
aaaa`a`a`aaa``aaaaaaaa`_a_a``aX____Ua]b
@HWI-EAS443:3:8:441:442#0/1
GTTGAGAATAGAACGATTCTTCTTGGGAATCCAGGAATGT
+HWI-EAS443:3:8:441:442#0/1
a_aa_a_]`a¥``]a]^_^]_^_^_]^^X]^X]^_aZ
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+HWI-EAS443:3:8:442:2002#0/1
a^W^bbbbbaabbbbbbbbbbbaba`aab_b`baaa`_`ba
@HWI-EAS443:3:8:448:953#0/1
CATTTACTCCAGACACTCCAAAGCTGGGTAGCTCCATGCT
+HWI-EAS443:3:8:448:953#0/1
`S`aaa_`¥`]]^¥``a_`a````W]^`X_a]^Q^]]^R^
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+HWI-EAS443:3:8:449:1566#0/1
abbaabaa^aa`aUa_ba`_`abaa`XPZ^_a]_aaa_N]
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+HWI-EAS443:3:8:44:1094#0/1
abbaa`aaaaaaaaa_a`W`_`_`^`_`^`WW__¥¥¥_`WU
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+HWI-EAS443:3:8:455:943#0/1
aaaa`baaaaaaaaaa_a``aaa`__`^_aa``^^`_`^`_
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GCCTCCACCATGCTAGAAATCCAACCGGTCTCTATATG
+HWI-EAS443:3:8:456:1340#0/1
`a^Wabbbba]bb[ab_]_a_abbaU`a`a^baaa``aa
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+HWI-EAS443:3:8:461:1132#0/1
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@HWI-EAS443:3:8:511:1395#0/1
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+HWI-EAS443:3:8:511:1395#0/1
aabaab]aa_a`aWa_a]_aYVa^`Y__SaG¥SI]]RJ¥G

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aaa`abaaa__ba_aaaaaaaaa`__aa__]X_^T`^]]
@HWI-EAS443:3:8:628:680#0/1
GAATCCCACCCAGGAATATTTGAGAATTCATGCCTTGAAA
+HWI-EAS443:3:8:628:680#0/1
ababaaaba_RZa``a^`aaaa`aa```[a`[_a_a__a
@HWI-EAS443:3:8:632:1114#0/1
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+HWI-EAS443:3:8:632:1114#0/1
a`baaa__aa_¥_W`_¥U`a_aa`¥¥¥Ya^`_a^_U¥__]
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+HWI-EAS443:3:8:711:1110#0/1
a_]`H^aaaX`aR_ZW`^WV__]_RUY]UPR¥__TTTTY]V
@HWI-EAS443:3:8:71:619#0/1
GGCCTCTTCTAATAGATGGCACAGCATCACTGAGTCCTGG
+HWI-EAS443:3:8:71:619#0/1
ababbbbbbbbabbbabaabaaaaaaaaa`a_``aab
@HWI-EAS443:3:8:743:357#0/1
GAACAATTGAAGAGCCATCTGGGCCGTTGCAGGTCCAAGG
+HWI-EAS443:3:8:743:357#0/1
`^aW[aaa]_a^[¥aaa`XU^_]Y)`PV_¥`]aU¥Z¥V`^`
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+HWI-EAS443:3:8:753:88#0/1
abYa`abXa^`¥a`baa^_aaa_____Y^^^_]Vaa_^^^_
@HWI-EAS443:3:8:771:1547#0/1
CACCAATACTCAGAAAAGGAAAGTGGACGACAAACACAG
+HWI-EAS443:3:8:771:1547#0/1
ab``[ba_ba`^aa_`^bab`^aaZbabab`aa`_aNb_
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+HWI-EAS443:3:8:775:1647#0/1
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@HWI-EAS443:3:8:77:88#0/1
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+HWI-EAS443:3:8:77:88#0/1
aa^abbU_aa``a_a_aa_U_a¥¥__]a^aW^`aZWT_^¥
@HWI-EAS443:3:8:808:757#0/1
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+HWI-EAS443:3:8:808:757#0/1
`Uaaaa_`a_b]La_aa`__aS_`V¥a]Y_a_aa_YU]_]
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+HWI-EAS443:3:8:839:1207#0/1
_abbbbZb_bbab`ba`_aba`bab`aaa¥ba`b_ab_aa
@HWI-EAS443:3:8:839:557#0/1
GGGGCAATGAAAAGAAGCCAAACTGGCAAATGTTGTGAG

+HWI-EAS443:3:8:839:557#0/1
aa````_aYV[^]^_````]_aU[ZY]_``]aZ]^Z`
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+HWI-EAS443:3:8:856:980#0/1
aa`aaa`a`_aVY`_U`_]YZ¥^¥^Z¥V^`_MY]UY¥WUY
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+HWI-EAS443:3:8:883:603#0/1
aa`_Ybbbab^b`aaRa`a`a`^a`_`^a`Zb`a^a[_a¥_
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+HWI-EAS443:3:8:896:699#0/1
aababaaab`aaaa`^a_a_a_a__`_`^`a^`_`^`_]_a^
@HWI-EAS443:3:8:898:1471#0/1
GTCTGGAGTAAATGAATCAGCTGACATGAGTATTGGAGTA
+HWI-EAS443:3:8:898:1471#0/1
a^ab````_ZP¥]baaY]W^]S`a`_`[a`_¥_T¥^`[^PY
@HWI-EAS443:3:8:930:897#0/1
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+HWI-EAS443:3:8:930:897#0/1
Q]b¥`bbba`bba_Xaab]abab[N¥^abJaa_aa`U_`^_
@HWI-EAS443:3:8:967:26#0/1
GAACCAAGTGGGTATGCACAAACAGACTGTGTTCTAGAGG
+HWI-EAS443:3:8:967:26#0/1
abba`b`b`b`bUaab`_`^a_a`^bWY_b^a]`X`X_U]B
@HWI-EAS443:3:8:970:1700#0/1
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+HWI-EAS443:3:8:970:1700#0/1
RY`¥XSaba_b^baa_RR`¥^b__`Y`a¥Y¥bb_YV]F]Y
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+HWI-EAS443:3:8:976:354#0/1
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+HWI-EAS443:3:8:982:994#0/1
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+HWI-EAS443:3:8:986:1584#0/1
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aY`abb¥^Y]a``U]aa]¥aaaaa`_]_a]YU``]`aY_

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+HWI-EAS443:3:90:1054:1573#0/1
aaZ^ZJ]_a_a^TT_`0aY_a^`TOQZY¥_`^]]][[_U_
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+HWI-EAS443:3:90:1057:1747#0/1
a`aaaa``aaaa``a^^a]a^```U^Z_a¥]`_]__RON
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+HWI-EAS443:3:90:1093:558#0/1
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+HWI-EAS443:3:90:1249:1312#0/1
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@HWI-EAS443:3:90:1259:1374#0/1
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+HWI-EAS443:3:90:1259:1374#0/1
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+HWI-EAS443:3:90:1307:1726#0/1
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+HWI-EAS443:3:90:1326:948#0/1
aba¥aa_baa_]¥Vaba`````^0^]W`^a¥S_^`_Z__[
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@HWI-EAS443:3:90:1515:504#0/1
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+HWI-EAS443:3:90:1515:504#0/1
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+HWI-EAS443:3:90:1579:653#0/1
`[_^_]¥TT_Z]a_P[X_YWR¥ZX`_`V[_X¥_]¥R]TXLR
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+HWI-EAS443:3:90:1595:960#0/1
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TGTTTACTGTGTCCATGGTGTATCCTGTTCCCTGTTCCATG
+HWI-EAS443:3:90:1671:471#0/1
S_T`_Z¥MYL^WaV_J^_L_X¥`[T]T)`a][ZFZGWaV^
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+HWI-EAS443:3:90:1693:1097#0/1
[ab`_`YaXWUOH^^`bbba_Q_]__Q¥_UV^X`QX¥[FX]
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aaa`aba`aaaaY^aabaaaa`baX¥_¥b____`_`_`_¥Z^
@HWI-EAS443:3:90:1717:1621#0/1
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+HWI-EAS443:3:90:1717:1621#0/1
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+HWI-EAS443:3:90:1782:456#0/1
a_baaaaa`]^X^___ba_a_aRYQY^_[`a_]S¥__Z_
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+HWI-EAS443:3:90:195:1904#0/1
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+HWI-EAS443:3:90:262:434#0/1
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+HWI-EAS443:3:90:263:1705#0/1
^aaaaSaabbaVa¥_bb` `aba_Z^a`aaa^_aS___]^Va
@HWI-EAS443:3:90:270:1347#0/1
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+HWI-EAS443:3:90:270:1347#0/1
abaaabaaa_Za]`````XW^a```]``_`_`^]___TT[
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+HWI-EAS443:3:90:289:443#0/1
a`__a^Q`^Q]Z^PZ[_`W__aVV¥R]__WXN^^U^TUT
@HWI-EAS443:3:90:28:1072#0/1
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+HWI-EAS443:3:90:28:1072#0/1
ab_T`]]]`a_a`X]``a[^^^UZZZX^`V^U[T_]Y
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+HWI-EAS443:3:90:290:1411#0/1
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+HWI-EAS443:3:90:339:293#0/1
aaa_a`^`^L]_aaa`aa_U^V]``YY][[_[^TW_]_]_
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+HWI-EAS443:3:90:345:447#0/1
a_RX[YV]^`]^XXR]a`[ZLL¥[^aZQVZQYQPZSRL]Z
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CGACTTCGAGTCTGGACGGATCAAGAAAGAAGAGTTCTCT
+HWI-EAS443:3:90:350:852#0/1
a]``a`a¥S[Zaa`a_a_[RY[^ZZ`[T_[`ZY_Z[_[
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GGCTAATAGATTTCTTAAAGGATGTAATGGAATCAATGAA
+HWI-EAS443:3:90:354:63#0/1
¥``````^`a`a`_ab]__bbabaX`abba`[¥LSSUa`]
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+HWI-EAS443:3:90:379:1093#0/1
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@HWI-EAS443:3:90:412:1789#0/1
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+HWI-EAS443:3:90:412:1789#0/1
a[```````_a`NaZ]a^`[¥``¥^[¥_S[a]]YP¥]¥YX]
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+HWI-EAS443:3:90:447:40#0/1
_aX^]abb`J¥`¥ba`bb`aab_a[^[ba`__a`aKaa]b
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`b¥`¥X]¥^b^X^][_aZUT_QX¥`P]¥a`^VY_YQ¥UW
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+HWI-EAS443:3:90:513:1618#0/1
Y_XRH¥Z`ababYb`^ba`a^Yb`]X`[`a[aaa_`ba¥_
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]¥abba_abbbaaXa¥bbbabbb^]b_ba`ba¥abbbbaa
@HWI-EAS443:3:90:533:1455#0/1
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+HWI-EAS443:3:90:533:1455#0/1
a]a]aVZbbbZ_aabYaba`_a]b]_S^a__W^_a`U_UZ
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GAGACAACATGACCAAGAAGATGGTCACGCAAAGAACAAT
+HWI-EAS443:3:90:54:1717#0/1
a^]aabbaaaaaba`¥[_]ZPXa_V_a_]a___Y^^_¥ZZ
@HWI-EAS443:3:90:589:317#0/1
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+HWI-EAS443:3:90:589:317#0/1
a_aaaaa_a`_a`a_a¥aa`a`_]a¥[_`_^]]_`ZU

@HWI-EAS443:3:90:615:1774#0/1
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+HWI-EAS443:3:90:615:1774#0/1
abbbbaY_b¥baa_bb```[¥[aabaabb`^`a^`a__
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+HWI-EAS443:3:90:669:693#0/1
abaaaa`aaaab`aaa`aaa[aa^aaaaaaaa`a[___]`][
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+HWI-EAS443:3:90:676:916#0/1
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+HWI-EAS443:3:90:68:1513#0/1
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+HWI-EAS443:3:90:713:563#0/1
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`_abbbbbabb`bbbabbbbbbaabbbbb`ab^aaab_a
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+HWI-EAS443:3:90:766:1917#0/1
a_FZZa]`[aR[aaaa`aaa`S`aa¥_QUGX^_VT^VXUY
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+HWI-EAS443:3:90:826:178#0/1
WZa`¥_Zab^aaab`_X^_]Y]_Za_a``Ya]UO_R`Z^S
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+HWI-EAS443:3:90:873:1447#0/1
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+HWI-EAS443:3:90:884:762#0/1
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+HWI-EAS443:3:90:90:1527#0/1  
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+HWI-EAS443:3:91:1018:684#0/1
abb`^Z__aaabbb_aba`abbbbT`^b^b`H`]W__WY]
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+HWI-EAS443:3:91:1034:1100#0/1
__X_aVvaba¥a`^b_b]Va]a`a`a`_`aaa]_X¥^^a
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+HWI-EAS443:3:91:1043:566#0/1
[```V^a`])`baaab`aa`_Za_a`Y[_¥]a`_a^]W]_
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+HWI-EAS443:3:91:1048:1894#0/1
a^^_bba`¥`aaaaaaaa_a`_aaYY^a___a^a__`]_
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TTGTGGCTAATTTTAGCATGGAGCTACCCAGCTTTGGAGT
+HWI-EAS443:3:91:1094:656#0/1
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@HWI-EAS443:3:91:1097:407#0/1
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+HWI-EAS443:3:91:1097:407#0/1
^^a^a`_`Z^a^_]YaZ]Q`^WVQ^aa`_`TK¥`^SY]
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@HWI-EAS443:3:91:1137:2013#0/1
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+HWI-EAS443:3:91:1137:2013#0/1
a[SL_QGZ`a`_ZaS]Y]QSS]XV[NNLY¥YNZW[LNSZP

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+HWI-EAS443:3:91:1172:1676#0/1
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@HWI-EAS443:3:91:1220:1490#0/1
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+HWI-EAS443:3:91:1220:1490#0/1
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@HWI-EAS443:3:91:1222:1277#0/1
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+HWI-EAS443:3:91:1222:1277#0/1
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+HWI-EAS443:3:91:1226:755#0/1
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+HWI-EAS443:3:91:1274:869#0/1
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abbaaabb`abaaa_b_¥]Y_aa¥X`a^Ua`^]aa^`a_]`
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+HWI-EAS443:3:91:1308:467#0/1
aa^]aaa_PG_`aXa`XR_a_`aaa`P``[_Y]``_]`_`
@HWI-EAS443:3:91:1321:1081#0/1
CGAGTGGTTCAGAAACATCCTGAGCATGGCACCCATAATG
+HWI-EAS443:3:91:1321:1081#0/1
__aaW`T]a``¥bV_aS_Y[b_aa`ab`a`b`_`Wb_abb
@HWI-EAS443:3:91:1333:1794#0/1
AAAAATTCCAGCGCAAAATGCCATAAGCACCACATTCCCT
+HWI-EAS443:3:91:1333:1794#0/1
abaa`a^^aa_a^_aaa_a`[aaa``]a^_a`___TUU[
@HWI-EAS443:3:91:1344:45#0/1
CACCTATATGTGTATCTGTAGTCTTTGATGAACAATTGAA
+HWI-EAS443:3:91:1344:45#0/1
`aZZbbb`a`b_bbaab]`b[aaaa_aaaa]¥^_a]V_a
@HWI-EAS443:3:91:134:1057#0/1
GAGTAAATGAATCAGCTGACATGAGTATTGGAGTAACAGT

+HWI-EAS443:3:91:134:1057#0/1
aaaPU¥aT]]Z]SR` `]aWa^Ta¥^FVVX`a]_VRX^¥`H
@HWI-EAS443:3:91:134:1309#0/1
TTTGGCTTGTGTTGAGAATAGAACGATTCCTCTTGGGAAT
+HWI-EAS443:3:91:134:1309#0/1
aaaaaaaaa^^^a_____a` `]aaST¥Z[[]¥]]X^YX]U]Z
@HWI-EAS443:3:91:1374:815#0/1
CTCCAATACTCATGTCAGCTGATTCATTTACTCCAGACAC
+HWI-EAS443:3:91:1374:815#0/1
abbbbbbb`bbbbabbba`bbabbabbbba^ba_bbbab]
@HWI-EAS443:3:91:1387:1010#0/1
CACCATAGAAGTCTTTAGATCGAATGGCCTAACAGCTAAT
+HWI-EAS443:3:91:1387:1010#0/1
a_a`bbbb`bb`abbaab_a_aab_aa]^`aa^`Xaa` `^
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ATCCGACTCTACTTTTCCTAAAAATCCAGCGCAAATGC
+HWI-EAS443:3:91:139:1559#0/1
^aa_aZa_Za`aaaaaaaaab`U_S`a` `a[aba_`^` `Y
@HWI-EAS443:3:91:140:1523#0/1
GGGAGCTAATGGATGATGATTATCGGGGAAGACTTTGTAA
+HWI-EAS443:3:91:140:1523#0/1
a_a]aa¥`_a_]QS`][__^`UY`_UT`^RXVZ_[XVV[Y
@HWI-EAS443:3:91:1436:1971#0/1
ATCCCTTGTGAGTCATAAAGAGATTGATTCTGTAACAA
+HWI-EAS443:3:91:1436:1971#0/1
`a]Q_¥a_[`¥^bSWbba_ab`a__¥^aa_]_aG¥aaQ`a
@HWI-EAS443:3:91:1467:1669#0/1
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+HWI-EAS443:3:91:1467:1669#0/1
abaaaa`aab]aaaa`aWaaaa` `[ab_a[a^a^`U` `^
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GTCTGGAGTAAATGAATCAGCTGACATGAGTATTGGAGTA
+HWI-EAS443:3:91:146:182#0/1
a¥¥^`SPYT]_XYV[UUTUUPoyTTTTXRZWWYWUSYYVOR
@HWI-EAS443:3:91:1489:1650#0/1
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+HWI-EAS443:3:91:1489:1650#0/1
aaa]aaa`W]_bab`aS]]_aYa` `Ia_baTZa^___^UN
@HWI-EAS443:3:91:1498:1093#0/1
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+HWI-EAS443:3:91:1498:1093#0/1
aabbbbbbbabbbabbabb¥aabbabaaab_aabbbabaaa
@HWI-EAS443:3:91:1509:1858#0/1
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+HWI-EAS443:3:91:1509:1858#0/1
aba_bb^¥`¥bbW]^`bbbGH¥aab_ab`b_ab]a` `^aYa
@HWI-EAS443:3:91:1615:1872#0/1
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+HWI-EAS443:3:91:1615:1872#0/1
`b` `Yaa]aaba]Yabaa_aaaba`^`¥a[`[`¥^`_aXa

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+HWI-EAS443:3:91:1656:1785#0/1
aaJO[_a`__`_^__¥a_XU_^¥_]`SX^^X_`WZ^Z^Y_
@HWI-EAS443:3:91:1697:1232#0/1
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+HWI-EAS443:3:91:1697:1232#0/1
a`bZ]``aa_XWXZa`aa]bba_aa]JaaaR[]VGR`XSV
@HWI-EAS443:3:91:1728:952#0/1
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+HWI-EAS443:3:91:1728:952#0/1
aWNXa]Y^[a`U¥_YSR]^ [NH__]]YN]X_X_UXY^UXX
@HWI-EAS443:3:91:197:1009#0/1
GAGGTTTCGTATACTTTGTTGAACTTTAGCTAGGAGCAT
+HWI-EAS443:3:91:197:1009#0/1
¥T_a0`^`a____`__`____`¥S¥VZ_^^`^__]_¥VYX]X
@HWI-EAS443:3:91:241:1444#0/1
CTAACTTGCAGGTCCTGTAGAATCTGTCCACTCCTGCTTG
+HWI-EAS443:3:91:241:1444#0/1
aabaabbbbabaRaabbabbbabaaaa`aa``a__a]_a_
@HWI-EAS443:3:91:251:1304#0/1
TGGTATTTGTGTTCGAATCTTCATTCTTTTACTCTCGAAC
+HWI-EAS443:3:91:251:1304#0/1
aba]Jb^baY`¥[a`aa^[]^b^a]^]a_aa___a`Y`a
@HWI-EAS443:3:91:254:1262#0/1
AACAGGATACACCATGGACACAGTAAACAGAACACACCAA
+HWI-EAS443:3:91:254:1262#0/1
_¥`Sa]a¥b```a`Wa¥``baaTb]QX[aMaa_PX```^_
@HWI-EAS443:3:91:276:121#0/1
ATGGGCTCCAATCATCCGACGATTTTGCTCTCATAGTGAA
+HWI-EAS443:3:91:276:121#0/1
`abaa^a_X_````_a````_a¥_aa^a__`_¥W^]¥Y` []
@HWI-EAS443:3:91:289:1781#0/1
CTCCAATCATCCGACGATTTTGCTCTCATAGTGAATGCAC
+HWI-EAS443:3:91:289:1781#0/1
^_b`bbba`bbbabbabbbbbb`bbbabb`_bbaabbb]
@HWI-EAS443:3:91:293:272#0/1
TCCAATACTCATGTCAGCTGATTCATTTACTCCAGACACT
+HWI-EAS443:3:91:293:272#0/1
aaaa`aaaaa_a_`^`aa___]]]] `__]`_]]] ^] ^X]ZXX
@HWI-EAS443:3:91:300:1279#0/1
CAGAGAACTCTTCTTTCTTGATCCGTCAGACTCGAAGTC
+HWI-EAS443:3:91:300:1279#0/1
]baZbbaba`bbba^abaaa`bab`baabbabb_`^Z`aUZ
@HWI-EAS443:3:91:317:701#0/1
GGTGTGTTCTGTTTACTGTGTCCATGGTGTATCCTGTTC
+HWI-EAS443:3:91:317:701#0/1
a_W_Q¥V¥¥a_[]`_]U^a]`VZW_^[^U_TW¥WT[¥W¥WW
@HWI-EAS443:3:91:331:1488#0/1
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+HWI-EAS443:3:91:331:1488#0/1
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@HWI-EAS443:3:91:347:476#0/1
GATTGATGCCAGGGTCGACTTCGAGTCTGGACGGATCAAG
+HWI-EAS443:3:91:347:476#0/1
aaaaaa_aaa_Za[Tb_a^`_`a[^a¥`Y¥_a_¥U_¥¥_
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CTCCCCTATGGCACCTATATGTGTATCTGTAGTCTTTGAT
+HWI-EAS443:3:91:34:1710#0/1
aabbbaaa_a_baab][aa_]S^S_[P¥_^^ZSWY^W[_Z
@HWI-EAS443:3:91:369:1929#0/1
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+HWI-EAS443:3:91:369:1929#0/1
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@HWI-EAS443:3:91:388:1123#0/1
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+HWI-EAS443:3:91:388:1123#0/1
ab`ZR`aaaa` `_]`a__Z` `` `^`_`_]`_`_]YZ
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+HWI-EAS443:3:91:397:1549#0/1
aaab_a`a^bba_`bbbaabb_X`aabSbabaa__^aa_
@HWI-EAS443:3:91:405:1459#0/1
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+HWI-EAS443:3:91:405:1459#0/1
a[UYPPOP]__¥^TSZZQ]¥U]]RZWZUZZ^ZX_WVTTZME
@HWI-EAS443:3:91:41:507#0/1
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+HWI-EAS443:3:91:41:507#0/1
`bba`abbbbbbba]aa¥bba` `bbb]bbababaa]ab
@HWI-EAS443:3:91:449:1664#0/1
AGCCTCTCTTATTCAGTCTTTGTTTTTTCTTCCCTATTGT
+HWI-EAS443:3:91:449:1664#0/1
]a_WT_` `]_YY^T¥]G]_T[Z]Z`_a]ZX^`a`RQR¥`X
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GGTGTATGGCATTGCGCTGGAATTTTAGGAAAAGT
+HWI-EAS443:3:91:472:372#0/1
aZQQZ¥¥[^_]Z[[Z[W]R][V^¥VVZ_^]_]YT]Y]R
@HWI-EAS443:3:91:493:575#0/1
TGCCTCTCTGCATCTTTGGTCATCGTATTTAATGTCAG
+HWI-EAS443:3:91:493:575#0/1
`bb`bb_`a^ab^` `aaa`Ya¥`¥_`a^Za`a¥_`^^¥¥V
@HWI-EAS443:3:91:494:1710#0/1
CAGAAACATCCTGAGCATGGCACCCATAATGTTCTCAAAC
+HWI-EAS443:3:91:494:1710#0/1
ZbUa` `Xbbba_aa` `¥]U_` `^_`aba^_L^WaKa` `R
@HWI-EAS443:3:91:51:105#0/1
AGTCTGGCGACCTTGAGTTAGTTTATCTACCCTTGTGT
+HWI-EAS443:3:91:51:105#0/1
ab` `a_baa`a`a` `^aZ^Y` `]a]¥OX^¥^ZZ^W^][W

@HWI-EAS443:3:91:533:282#0/1
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+HWI-EAS443:3:91:533:282#0/1
Xa¥ZaYa`a_b^`W¥]aaZ[_`a¥ba¥aaaaaa]_bXa`
@HWI-EAS443:3:91:584:1572#0/1
GATTTCTTAAAGGATGTAATGGAATCAATGAACAAAGAGG
+HWI-EAS443:3:91:584:1572#0/1
a`¥_`¥`[_`__Y`_^`Z]^`_Y^`_[[`]Z_]Z]V]ZT][
@HWI-EAS443:3:91:633:772#0/1
AATCTGTCCACTCCTGCTTGTATTCCCTCATGGTTTGGTG
+HWI-EAS443:3:91:633:772#0/1
YU[YZ_aaY^^a`^`^[aa]ZY^^`X`XVWT]^a`UOPV
@HWI-EAS443:3:91:705:1794#0/1
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+HWI-EAS443:3:91:705:1794#0/1
aaaYaaaaba_a`aab[_Y`aaa__a`_`_`_aY^^_]`^XW
@HWI-EAS443:3:91:730:699#0/1
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+HWI-EAS443:3:91:730:699#0/1
aT`XRa_bba_NY`aUa__a]aWSOTLLWH[`XXTWH[[U
@HWI-EAS443:3:91:748:1234#0/1
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+HWI-EAS443:3:91:748:1234#0/1
Y`U`a¥_a`^aX`UUV[Z]`_XYaYab___Yaa^TZa^[]
@HWI-EAS443:3:91:749:1805#0/1
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+HWI-EAS443:3:91:749:1805#0/1
abbbba^a`Z`_`_^_baZN__^aa_S`_a`aaa_aa`X¥_
@HWI-EAS443:3:91:75:1002#0/1
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+HWI-EAS443:3:91:75:1002#0/1
a`UaHa^a]`X¥`^W_`¥aU¥¥¥Y__U_]W¥WZZ`SSWY
@HWI-EAS443:3:91:762:196#0/1
GCCCTACCTTTGATTGGGTTTGATCCCACAGTCTCTTTAA
+HWI-EAS443:3:91:762:196#0/1
aX`^_ZZ`]`_Z[_ZR_¥TP^^`_Z[[WX[]YY¥ZZ^]]ZZ
@HWI-EAS443:3:91:76:1793#0/1
AAAAACAAAGACTGAATAAGAGAGGCTATCTAATAAGAGC
+HWI-EAS443:3:91:76:1793#0/1
a_ba_abaaaaaaaaaaaaaaaaabaa`_a]I_[]_QZ`G¥LV
@HWI-EAS443:3:91:792:1977#0/1
GACTGACAAAGGGATTACAGGGATTACAAAGTCTTCCCCG
+HWI-EAS443:3:91:792:1977#0/1
abb`W`b]a`W`a[WMU]`Z]_a`J`baa^UPa^Ua]X_a
@HWI-EAS443:3:91:813:669#0/1
TAGAATCTGTCCACTCCTGCTTGTATTCCCTCATGGTTTG
+HWI-EAS443:3:91:813:669#0/1
abb`ababbaaaa`a`aa`aba`_`aa_a`aaaa_Yaaa
@HWI-EAS443:3:91:816:659#0/1
TAACAACCCACTTTCAAAGAAAAAGGAGAGTAAGAGACAA

+HWI-EAS443:3:91:816:659#0/1
XH[Z]ZWX_¥`a¥UZYR]¥0[ZW^Z¥`S`N^[a__¥W__
@HWI-EAS443:3:91:84:1526#0/1
CTTTTGTCCAAGATTCAGTATCGAGACTCCCAAGACCGTA
+HWI-EAS443:3:91:84:1526#0/1
aaaa[`[aaaa`aab_b`ab_^____`aa`_Z^a_H_
@HWI-EAS443:3:91:857:1620#0/1
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+HWI-EAS443:3:91:857:1620#0/1
U`bba^aa__a¥abbabba_b`_V_bbbb`^`bb`bb`a
@HWI-EAS443:3:91:864:1051#0/1
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+HWI-EAS443:3:91:864:1051#0/1
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@HWI-EAS443:3:91:874:380#0/1
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+HWI-EAS443:3:91:874:380#0/1
abb`bbb`bbbaZabb`bbbbaabab[`abbbaa`b^^aa
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+HWI-EAS443:3:91:880:1240#0/1
aab`^]a]`a`a`a`a`T^a`]__`X_]PU^__V^
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+HWI-EAS443:3:91:880:47#0/1
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@HWI-EAS443:3:91:889:929#0/1
CTCTGTGTTTGTCTCCACTTTCCCTTTTCTGAGTATTGG
+HWI-EAS443:3:91:889:929#0/1
S¥bbba`bbb`_bYbb`a^`b`_baabbbaaaa]ab``_
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+HWI-EAS443:3:91:924:1248#0/1
^Zba`a`a¥]aYR_HV]RW__a_a¥^_a]aa`a^YSVY
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+HWI-EAS443:3:91:925:152#0/1
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AAGTACTTCAGGTCAATGCTTGCTAGCATTCTGCTGGTA
+HWI-EAS443:3:91:952:1764#0/1
^¥`Z```¥_R[HNT¥aa`^¥[Za¥V¥_]VaXZ][a]aWOZ
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GCTTTCTTGAAGAATCCCACCCAGGAATATTTGAGAATT
+HWI-EAS443:3:91:987:1808#0/1
aa_^_¥aa^UY`aL]Y^S]_a_¥_XN^^^J¥SO^W^_OIV
@HWI-EAS443:3:91:987:85#0/1
GACGGATCAAGAAAGAAGAGTTCTCTGAGATCATGAAGAT
+HWI-EAS443:3:91:987:85#0/1
a`V]a^_¥^aa_^]a]aZ`Z_X`V^_]`]]X^__^X^ZZ

@HWI-EAS443:3:92:1039:1405#0/1
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+HWI-EAS443:3:92:1039:1405#0/1
ab^`abab` `b_aaa^a]ab_ab^aa_`^aa`^RX¥`^_X
@HWI-EAS443:3:92:1040:350#0/1
ATTCGATCTAAAGACTTCTATGGTGTGGCCAATGCAGTT
+HWI-EAS443:3:92:1040:350#0/1
ababb_PZ_`_`][U^`^_`]X[[XV]]aX]]^^¥VWSV_
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+HWI-EAS443:3:92:1117:220#0/1
a`aba]XRbaaaa^V^ba`]Ya^a__RTPa^Y¥VRR¥]Z_
@HWI-EAS443:3:92:1122:144#0/1
GTCCACTTTCCCTTTTCTGAGTATTGGTGTGTTCTGTTTA
+HWI-EAS443:3:92:1122:144#0/1
a]¥W`_a`aR][aa_a^a`X_ZZa___Wa¥`X_Z_^Z_]Z
@HWI-EAS443:3:92:1132:1726#0/1
ATGACCTTGACCTGCAACGGCCAGATGGCTCTTCAATT
+HWI-EAS443:3:92:1132:1726#0/1
`a`a¥Va)`Za___Y_`_`]`Y_[_]`_U`_X[a_X]_^`]
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GCCATGCTCAGGATGTTTCTGAACCACTCGGGTTGATTTC
+HWI-EAS443:3:92:1180:1754#0/1
aa_`_`a¥`^Y`_`_`^`][__^_Z]]G[_]¥W^¥Z[^]Z
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CACTAACTTGCAGGTCCTGTAGAATCTGTCCACTCCTGCT
+HWI-EAS443:3:92:1203:1397#0/1
`aabbb`a`aaaaYaaaa_a`ab_] ^NR¥`N_]X`]
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TAGAATCTGTCCACTCCTGCTTGTATTCCCTCATGGTTTG
+HWI-EAS443:3:92:1233:1621#0/1
_ba`babaaaaaZSa_T_abaa`aaSa_a_G`aS[OS`¥
@HWI-EAS443:3:92:1242:781#0/1
TCCAATCATCCGACGATTTTGCTCTCATAGTGAATGCACC
+HWI-EAS443:3:92:1242:781#0/1
aa]aaa`aaX]aa_ba^¥_aa^_¥^_]_^]R`_^_`[¥Y_
@HWI-EAS443:3:92:1244:1335#0/1
TGATTCCCACTAACTTGCAGGTCCTGTAGAATCTGTCCAC
+HWI-EAS443:3:92:1244:1335#0/1
ab`baa`bbVbba`_S^`ab`_a_ab]Ta```]a_¥NQLY
@HWI-EAS443:3:92:1247:1275#0/1
CAAACCATGAGGGAATACAAGCAGGAGTGGACAGATTCTA
+HWI-EAS443:3:92:1247:1275#0/1
[aY`]V_`^`^bbb)`aa_aYaaa^a¥Q¥_T[`Ya¥`]L[[
@HWI-EAS443:3:92:1379:265#0/1
AGCCAAAAGCATGGAATATGATGCCGTTGCAACTACACAT
+HWI-EAS443:3:92:1379:265#0/1
aa]_aa`a_]__`¥_a_^_]__Y^[X_] ^YX]THT0^]
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+HWI-EAS443:3:92:1391:110#0/1
aa`abbaVab_bb¥_b`bbbbabbbbbb_bby^¥b_ba`a
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+HWI-EAS443:3:92:1463:314#0/1
abaabab^bbb_b`aab_aaa_a_aa_aa_a`b¥a___a_
@HWI-EAS443:3:92:1472:1136#0/1
AAAAGCTTGAACAGTCTGGGCTCCCAGTAGGGGGCAATGA
+HWI-EAS443:3:92:1472:1136#0/1
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+HWI-EAS443:3:92:1511:1991#0/1
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@HWI-EAS443:3:92:1586:796#0/1
CTGGAGTAAATGAATCAGCTGACATGAGTATTGGAGTAAC
+HWI-EAS443:3:92:1586:796#0/1
ababaababbbbaa`baab`bab_bbbab`ababbab]^`a
@HWI-EAS443:3:92:1694:1306#0/1
CAGTGTGAAAGAAATCTCTGTGTCTTGTGAATTAGT
+HWI-EAS443:3:92:1694:1306#0/1
aababa¥a^Saabaa¥ba`^a`a`]]a^¥``]ZOG[] [G^U
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CCCTATGGCACCTATATGTGTATCTGTAGTCTTTGATGAA
+HWI-EAS443:3:92:1711:858#0/1
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@HWI-EAS443:3:92:180:1280#0/1
GTCGTCCACTTTCCCTTTTCTGAGTATTGGTGTGTTCTGT
+HWI-EAS443:3:92:180:1280#0/1
a^a`V`^^`__^_]`a`a`a`a]a`^_X¥V`V]Z^]X
@HWI-EAS443:3:92:332:1906#0/1
GTCTGGAGTAAATGAATCAGCTGACATGAGTATTGGAGTA
+HWI-EAS443:3:92:332:1906#0/1
aHbab^aa]a_aa`aU`a`a`a`aa¥TQ^^Wa]``_[RIY
@HWI-EAS443:3:92:368:1810#0/1
GGGATGGGCTCCAATCATCCGACGATTTTGCTCTCATAGT
+HWI-EAS443:3:92:368:1810#0/1
a^Z^SX^)`Ta``[X[WFQa^^URYZXGR_] [VNLLSUVF
@HWI-EAS443:3:92:377:18#0/1
CTTGCAGTCCCTGTAGAATCTGTCCACTCCTGCTTGTATT
+HWI-EAS443:3:92:377:18#0/1
a__bbbb`abbbabba`aabaY^`a`__`a¥`_aV``_
@HWI-EAS443:3:92:392:1867#0/1
AAAATCGTGGATGATTGGAGCCCATCCCACCAGTATATT
+HWI-EAS443:3:92:392:1867#0/1
ababaaaX_Z^`_]a`__`^``[^`^W^_a^R]¥W^^Z^]
@HWI-EAS443:3:92:402:1504#0/1
AGCTAATGGATGATGATTATCGGGGAAGACTTTGTAATCC
+HWI-EAS443:3:92:402:1504#0/1
[aaabaaaa`aaa`a^aaa`_[__`^^`__a_aWV``ZZ^

@HWI-EAS443:3:92:406:242#0/1
CATGTTGATTCCCCTAACTTGCAGGTCCTGTAGAATCTG
+HWI-EAS443:3:92:406:242#0/1
ab[_`_`aaa]R[ZaaS_¥M]_]XU`_`U`]a^_U`UW_Naa
@HWI-EAS443:3:92:465:1683#0/1
GCTAATTTTAGCATGGAGCTACCCAGCTTTGGAGTGTCTG
+HWI-EAS443:3:92:465:1683#0/1
`]`^a[a`Y]YQ]W_WS_a`¥a¥Y`_TSX]_ZNYGaS][^
@HWI-EAS443:3:92:473:177#0/1
GTGCCATGCTCAGGATGTTTCTGAACCACTCGGGTTGATT
+HWI-EAS443:3:92:473:177#0/1
aY]¥X^] ^ZUWS[]R¥YY^XO]WYZURUXXZ]XZVWXWZZ
@HWI-EAS443:3:92:481:1153#0/1
CTTCTTTTCATTGCCCCCTACTGGGAGCCCAGACTGTTCA
+HWI-EAS443:3:92:481:1153#0/1
ababbbbababaaaaaaaaaaaaaaaa____aaaa_a`_aa`_`^a
@HWI-EAS443:3:92:527:1344#0/1
GTCTTTGATGAACAATTGAAGAGCCATCTGGGCCGTTGCA
+HWI-EAS443:3:92:527:1344#0/1
`Na`_[Ua_]`¥S__SS`S_YUT_[]_Z[`UaV^aTTBBB
@HWI-EAS443:3:92:530:418#0/1
TGCCATGCTCAGGATGTTTCTGAACCACTCGGGTTGATTT
+HWI-EAS443:3:92:530:418#0/1
abaaaaaaaa`abb`aaaaa`b`a` `` `a_aaaa]`a_a`a
@HWI-EAS443:3:92:532:112#0/1
GCGAAAAGCTTGAACAGTCTGGGCTCCCAGTAGGGGGCAA
+HWI-EAS443:3:92:532:112#0/1
a`ba`baa[`aa_a`aa` `__a^^Y¥_]a¥^` ` `T¥^
@HWI-EAS443:3:92:543:1520#0/1
GTCTGGAGTAAATGAATCAGCTGACATGAGTATTGGAGTA
+HWI-EAS443:3:92:543:1520#0/1
¥`abaZa¥_babbaabba`abaabaabaa^aaa¥aa_Ya
@HWI-EAS443:3:92:560:1174#0/1
GGATCAAGAAAGAAGAGTTCTCTGAGATCATGAAGATCTG
+HWI-EAS443:3:92:560:1174#0/1
_UQMI`XPRWOW][ROPQXLQR`a^a_G__a_]^^ZZZY^
@HWI-EAS443:3:92:568:574#0/1
ATCTGATACTAATAGCCCTACCTTTGATTGGGTTTGTATCC
+HWI-EAS443:3:92:568:574#0/1
aaaa[^aa_a_a_aaaa^_a^____^]`aa_ZMR_a_]^[
@HWI-EAS443:3:92:579:1359#0/1
GATTGATGCCAGGGTCGACTTCGAGTCTGGACGGATCAAG
+HWI-EAS443:3:92:579:1359#0/1
a¥S_]`_aa` ``a[YaaV[``^]X]RX^]]W^` `ZZ[_`^
@HWI-EAS443:3:92:579:307#0/1
GTGAGAAAGATGATGACTAATTCACAAGACACAGAGATTT
+HWI-EAS443:3:92:579:307#0/1
a^^`a^`_a^_a^^`_Z]__^^____`_] ^_Y]^¥_^[[]]
@HWI-EAS443:3:92:595:1651#0/1
GTTGTTATCTCTATTTCTCTTTGTTTTCATTGATTCCATTA

+HWI-EAS443:3:92:595:1651#0/1
`aa^abaaaaaaaa`aaaaa`a`_aaaa_a``_a]a`_a
@HWI-EAS443:3:92:597:1410#0/1
ATAAGAGCACTGACATTAATACGATGACCAAAGATGCAG
+HWI-EAS443:3:92:597:1410#0/1
a`aa]a`^aaa`_^]`^Y``aaa`_``a[Z]``^`V^a
@HWI-EAS443:3:92:59:1528#0/1
CAGATACACATATAGGTGCCATAGGGGAGACACACAAATT
+HWI-EAS443:3:92:59:1528#0/1
aaaaa[```aaa`a`Zaa^``aa_¥^^`_^aaaa`_¥]
@HWI-EAS443:3:92:614:1081#0/1
GAACGATTCTCTTGGGAATCCAGGAATGTGTAGTTGCAA
+HWI-EAS443:3:92:614:1081#0/1
YT_`^¥¥[_W`ab_^¥XQ¥¥a¥JXV`_]`^Qa]UV``ba
@HWI-EAS443:3:92:644:451#0/1
GAAGAATCCCACCCAGGAATATTTGAGAATTCATGCCTTG
+HWI-EAS443:3:92:644:451#0/1
^`Zbabbb]L[`V_a__`^`aa[]a^]ZZYUaY`[R[Ua
@HWI-EAS443:3:92:686:1447#0/1
ATCCGACTCTACTTTTCCTAAAAATTCCAGCGCAAATGC
+HWI-EAS443:3:92:686:1447#0/1
a^]Y¥Ia[]baa```a[`ab`a]T`^__aa`_aaa^a_^_
@HWI-EAS443:3:92:694:1650#0/1
GATTGATGCCAGGGTCGACTTCGAGTCTGGACGGATCAAG
+HWI-EAS443:3:92:694:1650#0/1
[abaabbbbabbaV0¥bb[bba^`a`_baba]^a`a_ba`
@HWI-EAS443:3:92:703:597#0/1
GGCTCCAATCATCCGACGATTTTGCTCTCATAGTGAATGC
+HWI-EAS443:3:92:703:597#0/1
^a`]aa`aXQ_W[Z]ZQ]]¥a``aZP_[aXX`ZNQ^VaVY
@HWI-EAS443:3:92:709:1622#0/1
CAGCATTGTTTACAGAATCAATCTCTTTATGACTGACAAA
+HWI-EAS443:3:92:709:1622#0/1
`__aaabbVZa_bbbb]]¥baaY[aa_aaaba¥aaa_`[`
@HWI-EAS443:3:92:717:1430#0/1
ATTTGCGAAAAGCTTGAACAGTCTGGGCTCCAGTAGGGG
+HWI-EAS443:3:92:717:1430#0/1
Zbb[bbb`ab`]aaba`_aa¥aa]aZa_b]_^`Waa^U]
@HWI-EAS443:3:92:733:347#0/1
AGCTGTTAGGCCATTCGATCTAAAGACTTCTATGGTGTG
+HWI-EAS443:3:92:733:347#0/1
aba_a[Q]]X¥a`_]ZZN]V`_^aWG``aYU_Z¥TXYQ_
@HWI-EAS443:3:92:743:159#0/1
CCCAGGAATATTTGAGAATTCATGCCTTGAACAATGGAA
+HWI-EAS443:3:92:743:159#0/1
`babbbb__b`¥ababbab^ab]b`aa`aa``]b`_a_a`
@HWI-EAS443:3:92:755:1081#0/1
CAATCATAAGTCTGGCGACCTTGAGTTAGTTTATCTACCC
+HWI-EAS443:3:92:755:1081#0/1
^ZWZ`a^`^``Y`YZaX^`_`a`b_a]a^a_a¥_a_[L]

@HWI-EAS443:3:92:820:1109#0/1
GGCCAATGCAGTTGCTGCCGTTGATTTCTGTTTAATGTC
+HWI-EAS443:3:92:820:1109#0/1
^R^UZ_____ [^\W] [^\ [^\]MZXLZ] \^^_RX_ZY^JUX
@HWI-EAS443:3:92:821:1895#0/1
GAGATAACAACCCACTTTCAAAGAAAAAGGAGAGTAAGAG
+HWI-EAS443:3:92:821:1895#0/1
ab_bbab_b``_aaaaaaaa_aaaa__`aa`_`aX`_`a_
@HWI-EAS443:3:92:853:1895#0/1
ACCGGCAGCAACTGCATTGGCCAACACCATAGAAGTCTTT
+HWI-EAS443:3:92:853:1895#0/1
a``_a`_a¥[aXZXTX[ZOVRV^¥UYPP¥UUVPP¥PTTWWU
@HWI-EAS443:3:92:873:511#0/1
CAGATCTTCATGATCTCAGAGAACTCTTCTTTCTTGATCC
+HWI-EAS443:3:92:873:511#0/1
]b¥Ja[a[^baXQaS[[Y^`_Z` [¥S^_aba`]a__ [YYU
@HWI-EAS443:3:92:874:1833#0/1
GGAAAGTGGACGACAAACACAGAGACTGGTGCACCCAGC
+HWI-EAS443:3:92:874:1833#0/1
aaaaaa^aa`_aa_aaa^`aaa_a`_^^^U`_`a^`¥^^Y¥
@HWI-EAS443:3:92:874:2009#0/1
GTCCTCCATCTGATACTAATAGCCCTACCTTTGATTGGGT
+HWI-EAS443:3:92:874:2009#0/1
```abbaaa\_abaaaaaabab```aaa`aa`aaaa^` [\_X  
@HWI-EAS443:3:92:914:1962#0/1  
CAGGAATGTGTAGTTGCAACGGCATCATATCCATGCTTT  
+HWI-EAS443:3:92:914:1962#0/1  
aba`^`¥[¥`Xb\_^a]^aaaaaaaY[`\_\_\_X\_aa`\_\_dU^  
@HWI-EAS443:3:92:918:795#0/1  
CAAACACAGAGACTGGTGCACCCAGCTCAACCCGATTGA  
+HWI-EAS443:3:92:918:795#0/1  
abbaaaaa`a`\_a`\_S`aa]``\_a\_]`a``Y\_a\_^`a`  
@HWI-EAS443:3:92:919:660#0/1  
TTCGAGTCTGGACGGATCAAGAAAGAAGAGTTCTCTGAGA  
+HWI-EAS443:3:92:919:660#0/1  
aaa`Y`^ab\_a[`W`^RZ]Yaaa\_¥ZVa\_dU¥W¥`a]^\_]  
@HWI-EAS443:3:92:943:909#0/1  
GTTTGGTGCATTCACTATGAGAGCAAAATCGTCGGATGAT  
+HWI-EAS443:3:92:943:909#0/1  
a\_]XVOFY]a^[`\_Q`\_`YT\_] [ `aY[ `Z` ]R\_`MYX\_\_X  
@HWI-EAS443:3:92:94:1753#0/1  
GGCTAATTTTAGCATGGAGCTACCCAGCTTTGGAGTGTCT  
+HWI-EAS443:3:92:94:1753#0/1  
abbaa`ab`abab^a````aa]ab\_]¥`\_`^¥¥¥aZa]\_`  
@HWI-EAS443:3:92:998:572#0/1  
ATTGATTCCATTACATCCTTTAAGAAATCTATTAGCCTTC  
+HWI-EAS443:3:92:998:572#0/1  
aaaaaaaa\_aaaaZ`a`\_aa`\_aa^`\_aaa\_\_`\_a\_]^[ ]]  
@HWI-EAS443:3:92:99:155#0/1  
GTCTGGAGTAAATGAATCAGCTGACATGAGTATTGGAGTA





@HWI-EAS443:3:93:1479:942#0/1  
ACGGCCCAGATGGCTCTTCAATTGTTTCATCAAAGACTACA  
+HWI-EAS443:3:93:1479:942#0/1  
a\_ba`]^`a````¥a`aa`^^aaa^a^`Y^`\_\_]ZZ^Z\_  
@HWI-EAS443:3:93:1507:755#0/1  
ATGTTGTTCTTTATCACTGTTACTCCAATACTCATGTCAG  
+HWI-EAS443:3:93:1507:755#0/1  
`ba`\_\_`ababb`bb`bbabaaaUY`aaVa^aa`¥F[a  
@HWI-EAS443:3:93:1539:1231#0/1  
ATTTGCGAAAAGCTTGAACAGTCTGGGCTCCCAGTAGGGG  
+HWI-EAS443:3:93:1539:1231#0/1  
aaaa^¥^`]^`Zaab]Z```QX`SV`[OJVQVGLVSPV  
@HWI-EAS443:3:93:1576:348#0/1  
GTTTACTGTGTCCATGGTGTATCCTGTTCCCTGTTCCATGG  
+HWI-EAS443:3:93:1576:348#0/1  
a`aa\_N\_]Ya[QOU[`]GXGa`\_PVYPXSW^[ZWZUTUZB  
@HWI-EAS443:3:93:1579:1550#0/1  
AAAAATTCCAGCGCAAATGCCATAAGCACACATTCCT  
+HWI-EAS443:3:93:1579:1550#0/1  
a]Z`Zaaaa¥\_]Z`\_^`Y`aaYaa\_[\_WT\_0^Y\_\_¥SGW^  
@HWI-EAS443:3:93:1587:945#0/1  
ATGCTCAGGATGTTTCTGAACCACTCGGGTTGATTTCTGG  
+HWI-EAS443:3:93:1587:945#0/1  
]L]a[USRXQaaW``XXHT\_[[¥PYT[[`RV]Z`^YFX\_a  
@HWI-EAS443:3:93:1658:767#0/1  
GTAATGGAATCAATGAACAAAGAGGAAATAGAGATAACAA  
+HWI-EAS443:3:93:1658:767#0/1  
a^^a\_aa\_\_`T`a]^`Y`YY`^a^U[W\_¥`\_^]^`¥[Y\_  
@HWI-EAS443:3:93:1754:1135#0/1  
GGGCTATCGCAACACCTGGGATGCAGATTAGAGTTTCGT  
+HWI-EAS443:3:93:1754:1135#0/1  
\_OR^\_aa`a^P¥VYXY`aa`SY`]Ra[[`] [V]\_Y¥TVXB  
@HWI-EAS443:3:93:1770:987#0/1  
GGACCATGGGCTGGCATTACCACAGCATTGTTTACAGAAT  
+HWI-EAS443:3:93:1770:987#0/1  
^JR]V¥]\_[[¥^]\_aa`\_[P^] ^0YVY^a]a]¥T][ZZW  
@HWI-EAS443:3:93:191:1065#0/1  
AAAAATTCCAGCGCAAATGCCATAAGCACACATTCCT  
+HWI-EAS443:3:93:191:1065#0/1  
aa]ZY`^a^[RRU^X^\_]`^\_YFY^^\_]\_X[^\_WWX]WVX  
@HWI-EAS443:3:93:203:1239#0/1  
CATGGTGTCTAGGGCCCGATTGATGCCAGGGTCGACTTC  
+HWI-EAS443:3:93:203:1239#0/1  
a``\_WV]¥`V^[X¥[¥]``]¥¥^¥X¥¥Y¥VRTJQ¥YSXNS  
@HWI-EAS443:3:93:277:1371#0/1  
CAGATCTTCATGATCTCAGAGAACTCTTCTTTCTTGATCC  
+HWI-EAS443:3:93:277:1371#0/1  
`ab^aababbabbabb`[b^aba`aaaa`abaaa`U\_  
@HWI-EAS443:3:93:29:788#0/1  
CACTGACATTAATACGATGACCAAAGATGCAGAGAGAGG



@HWI-EAS443:3:93:660:769#0/1  
GTGCTTATGGCATTGCGCTGGAATTTTAGGAAAAGTA  
+HWI-EAS443:3:93:660:769#0/1  
¥D¥\_aa]¥^P¥PPYa^WV\_S¥Y]]S[N]a\_aa`M[]Q\_G\_  
@HWI-EAS443:3:93:665:1309#0/1  
GACAACATGACCAAGAAGATGGTCACGCAAAGAACAATAG  
+HWI-EAS443:3:93:665:1309#0/1  
^a\_RPP^Z]Xa[[Y`\_X\_WO]a]^Z]WTY]W¥V^T]W]¥Z  
@HWI-EAS443:3:93:677:1197#0/1  
AATGCCAGCCCATGGTCCAGCCAAAAGCATGGAATATGAT  
+HWI-EAS443:3:93:677:1197#0/1  
a¥^ZQ^`V`\_aa[IYWXM]ZX]U¥`OWX^R^¥¥\_\_\_\_^X[`  
@HWI-EAS443:3:93:735:1526#0/1  
AGGTCCAAGGTCATTGTTTATCATGTTGTTCTTTATCACT  
+HWI-EAS443:3:93:735:1526#0/1  
aaa¥\_aa\_aa¥`\_a`a^\_]`]\_\_\_\_\_`WUW^\_`^¥¥]W\_  
@HWI-EAS443:3:93:758:1801#0/1  
CAAAGTATACGAAACCTCTAATCTGCATCCCAGGTGTTGC  
+HWI-EAS443:3:93:758:1801#0/1  
abab`abbbaabbba`abbbabaa`baa\_abaa^a^`a\_  
@HWI-EAS443:3:93:759:522#0/1  
CTTTAAGAAATCTATTAGCCTTCCTGACTCATTAGCTGTT  
+HWI-EAS443:3:93:759:522#0/1  
]Z¥V\_X\_[]\_T\_\_S^`aa\_[U¥aaa`\_Z^^]]]a]^`^Y[  
@HWI-EAS443:3:93:763:1422#0/1  
GCCTCTTATTAGTCTTTGTTTTTTCTCCCTATTGTT  
+HWI-EAS443:3:93:763:1422#0/1  
aaaaaababaaaa`a`aaaab]aaaa`^a`]a`a\_a`\_[]`  
@HWI-EAS443:3:93:799:631#0/1  
AAAATGGGAGCTAATGGATGATGATTATCGGGGAAGACTT  
+HWI-EAS443:3:93:799:631#0/1  
¥¥¥R^X\_] [\_\_a\_a^ [PPab^aa`\_a`a^RT\_^]T[]`WWa  
@HWI-EAS443:3:93:822:87#0/1  
ATGGGCTCCAATCATCCGACGATTTTGCTCTCATAGTGAA  
+HWI-EAS443:3:93:822:87#0/1  
aab^\_¥a`\_aa]\_a` [\_\_]a\_aa```W\_Y`]^[\_\_X\_] ]  
@HWI-EAS443:3:93:844:1377#0/1  
CGATAATCATCATCCATTAGCTCCCATTTTAAGCAGACTT  
+HWI-EAS443:3:93:844:1377#0/1  
a^[¥TWa\_] [^VW^^Z`\_] ^]W\_Z^]\_]\_]\_^ [TZZ^XY]  
@HWI-EAS443:3:93:849:1190#0/1  
AAAGACTTCTATGGTGTGGCCAATGCAGTTGCTGCCGGT  
+HWI-EAS443:3:93:849:1190#0/1  
a\_a\_W`a\_\_\_\_\_] [^\_VXU]\_[]\_S^U\_^^`V^WYW]XY^UK  
@HWI-EAS443:3:93:856:1097#0/1  
TTCCCCTAACTTGCAGGTCCTGTAGAATCTGTCCACTCC  
+HWI-EAS443:3:93:856:1097#0/1  
aaa\_^a`a^aaa`\_aa\_XU]``]\_\_X^a¥\_`UU]]Y^X^  
@HWI-EAS443:3:93:867:400#0/1  
GAGATTTCTTTACAATCACTGGGGACAACACTAAGTGGA

+HWI-EAS443:3:93:867:400#0/1  
aa\_`aaaaaaaaa\_aaaaa`aa\_`a]`a#^`\_`\_\_aYa[\_  
@HWI-EAS443:3:93:974:1168#0/1  
GTCCATCAATCGGGTTGAGCTGGGGTGCACCAGTCTCTGT  
+HWI-EAS443:3:93:974:1168#0/1  
`R`\_`aa`a]aa]^X#Y^`]#Z`W`Y]W```WVa]]`Q  
@HWI-EAS443:3:94:1016:1986#0/1  
CACTAACTTGCAGGTCCTGTAGAATCTGTCCACTCCTGCT  
+HWI-EAS443:3:94:1016:1986#0/1  
aaaabb[\_aaa`\_]SL]a`\_aa\_aVVa^VWVa]NP^\_]V^  
@HWI-EAS443:3:94:1034:412#0/1  
CACTAACTTGCAGGTCCTGTAGAATCTGTCCACTCCTGCT  
+HWI-EAS443:3:94:1034:412#0/1  
abbbbbbbbabba`Xaabbabbaaaaaa\_\_\_aa`]`a\_\_\_`  
@HWI-EAS443:3:94:1053:559#0/1  
GATGGCTCTTCAATTGTTTCATCAAAGACTACAGATACACA  
+HWI-EAS443:3:94:1053:559#0/1  
a^\_\_\_\_^\_\_W\_[ZT[R\_TU`[]][XZVQV^SVZZWXWTP^  
@HWI-EAS443:3:94:1056:567#0/1  
CTCCAATCATCCGACGATTTTGCTCTCATAGTGAATGCAC  
+HWI-EAS443:3:94:1056:567#0/1  
^a`#`\_baabaababaaaaaba`aaaa[\_aa\_ab`^`b[``  
@HWI-EAS443:3:94:1062:905#0/1  
GGGCAATGAAAAGAAGGCCAAACTGGCAAATGTTGTGAGA  
+HWI-EAS443:3:94:1062:905#0/1  
aa```aa^^#Z^a`a```YZ```aaa``a^`aa^\_a]a^a\_  
@HWI-EAS443:3:94:1087:224#0/1  
AAAGACTACAGATACACATATAGGTGCCATAGGGGAGACA  
+HWI-EAS443:3:94:1087:224#0/1  
\_``]SaabaabY]^b`]]\_babbaPb`#[\_aaa]a^b]]`  
@HWI-EAS443:3:94:1217:681#0/1  
AGAAAAGGGAAAGTGGACGACAAACACAGAGACTGGTGCA  
+HWI-EAS443:3:94:1217:681#0/1  
aa`#`^a^aSVZaWa\_\_\_\_\_]\_aa\_W#^][^\_^U#ZZV^U#  
@HWI-EAS443:3:94:1232:1991#0/1  
GGCTAATTTTAGCATGGAGCTACCCAGCTTTGGAGTGTCT  
+HWI-EAS443:3:94:1232:1991#0/1  
aba]b[`bbbb`bUbba`]a`Ub`^a#`baba^\_Wa\_`a  
@HWI-EAS443:3:94:1263:982#0/1  
GGGATGGGCTCCAATCATCCGACGATTTTGCTCTCATAGT  
+HWI-EAS443:3:94:1263:982#0/1  
Q\_#^YaSXT\_S\_X\_#]Z0\_b\_b\_aa`^b#baadU]\_aV  
@HWI-EAS443:3:94:1281:474#0/1  
GGAGTGGACAGATTCTACAGGACCTGCAAGTTAGTGGGAA  
+HWI-EAS443:3:94:1281:474#0/1  
`UZ`W\_a]\_#\_QYZ`#]VZ^ZU#]Y]XXXYPUT\_X]]]XT  
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AACTACACATTCCTGGATTCCCAAGAGGAATCGTTCTATT  
+HWI-EAS443:3:94:128:139#0/1  
W[\_[J[]a`#WZV]SXPR^#[T^[\_`]VYVQXUO[PWQ[O

@HWI-EAS443:3:94:1392:196#0/1  
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+HWI-EAS443:3:94:1392:196#0/1  
abbbabbbbabbbaabbaba`b\_bb`aa`ba`aa\_baaa  
@HWI-EAS443:3:94:1435:1008#0/1  
AAAAATTCCAGCGCAAATGCCATAAGCACCACATTCCCT  
+HWI-EAS443:3:94:1435:1008#0/1  
aa\_]a`aa`a`Xa`\_\_[QX\_`^^R^[a^V^Y]YXWXX`  
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TCCTCTTTGTTTCATTGATTCCATTACATCCTTTAAGAAAT  
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`Ra¥0`a`a]a][`\_aa\_WX¥^U\_N\_YRH[Y\_]¥`Z[Z]  
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+HWI-EAS443:3:94:1540:1015#0/1  
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@HWI-EAS443:3:94:1627:104#0/1  
GACGGATCAAGAAAGAAGAGTTCTCTGAGATCATGAAGAT  
+HWI-EAS443:3:94:1627:104#0/1  
aY`¥W]T¥\_a^]Y\_\_OR\_^\_^^W^\_[^VMU\_YZQY]X  
@HWI-EAS443:3:94:1643:1170#0/1  
TGCTTGATTCCCTCATGGTTTGGTGCATTCACTATGAGA  
+HWI-EAS443:3:94:1643:1170#0/1  
ababbbbaabba^aa`ab\_a\_aabaZ`\_aaaa`^a`aa`a^  
@HWI-EAS443:3:94:1659:1518#0/1  
GAACAATTGAAGAGCCATCTGGGCCGTTGCAGGTCCAAGG  
+HWI-EAS443:3:94:1659:1518#0/1  
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CAGGAATATTTGAGAATTCATGCCTTGAAACAATGGAAGT  
+HWI-EAS443:3:94:1661:1697#0/1  
¥bbbabbbb`abbbabaabab¥[\_aaaab\_baab\_\_aaU  
@HWI-EAS443:3:94:1736:1806#0/1  
ATCTGCATCCCAGGTGTTGCGATAGCCCTTCTTTTAACT  
+HWI-EAS443:3:94:1736:1806#0/1  
aaY\_b`aa\_[`a\_]VaaaY]a]\_\_Z^[\_a`¥aaaa^]\_^a  
@HWI-EAS443:3:94:173:1780#0/1  
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+HWI-EAS443:3:94:173:1780#0/1  
aa]aaY`aaa\_Xbaa]^[^]X`Qa¥^[[]^a\_aTX`a]]V]  
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+HWI-EAS443:3:94:212:597#0/1  
aabbaba\_]abaaWaaaa`aa^a`^aa¥aa`\_X\_\_\_\_`\_`a  
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+HWI-EAS443:3:94:263:1081#0/1  
a`^Z\_Y`[^`a¥¥NT]\_¥\_\_^¥^^\_]\_WVZ[PVVWTWXM  
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+HWI-EAS443:3:94:271:849#0/1  
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@HWI-EAS443:3:94:327:855#0/1  
TCTCTATTTCTCTTTGTTTCATTGATTCCATTACATCCTT  
+HWI-EAS443:3:94:327:855#0/1  
abaa]\_aaaa`\_aaaa^Q^`¥aaa\_aaaa`\_`\_`RX`]  
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+HWI-EAS443:3:94:349:646#0/1  
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@HWI-EAS443:3:94:39:905#0/1  
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+HWI-EAS443:3:94:39:905#0/1  
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GTTGATTCCCACTAACTTGCAGGTCCTGTAGAATCTGTCC  
+HWI-EAS443:3:94:405:518#0/1  
a`^¥P]XX`ZXY^aa^`^Z]]`Y]]^\_X]ZZ\_]X^\_XX]  
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AACCGGCAGCAACTGCATTGGCCAACACCATAGAAGTCTT  
+HWI-EAS443:3:94:40:1535#0/1  
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+HWI-EAS443:3:94:43:1972#0/1  
aa^a¥bbbabab`ab^ab\_aa`b\_\_aba````ba\_b`aaa  
@HWI-EAS443:3:94:46:172#0/1  
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+HWI-EAS443:3:94:46:172#0/1  
aab``]aaabaa`\_\_a]Ya\_aa[]\_a`^Y`\_\_`^\_]ZVS  
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+HWI-EAS443:3:94:471:2025#0/1  
abb`\_SaV¥XY¥OY^a`a`^`aaa`\_X`aaXQL[`\_\_XaSa  
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+HWI-EAS443:3:94:471:583#0/1  
]bb`aZ^`aWN¥^`YVYZ^¥ZZ]^YZa]a[Y^`X`ZG\_] [  
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+HWI-EAS443:3:94:48:561#0/1  
aaZ`baaa\_\_`Z`bb`\_ba\_`^b]`a`aa``a\_a[a¥]^ [  
@HWI-EAS443:3:94:491:357#0/1  
GAGACAACATGACCAAGAAGATGGTCACGCAAAGAACAAT  
+HWI-EAS443:3:94:491:357#0/1  
aYa`^^`[¥WW]`a`¥]]¥`¥¥X`WLYY`]VW^YU^]WX [  
@HWI-EAS443:3:94:501:85#0/1  
CATCCCAGGACTCAGTGATGCTGTGCCATCTATTAGAAGA  
+HWI-EAS443:3:94:501:85#0/1  
aaaa`bbabZ]aaab]b\_aa\_aa]a¥Q^a\_a\_a\_\_`]^`]

@HWI-EAS443:3:94:525:231#0/1  
CTTGTGTTGAGAATAGAACGATTCCCTCTTGGGAATCCAGG  
+HWI-EAS443:3:94:525:231#0/1  
a\_aaV¥abb[aaa`aa`¥U¥\_[QR[X`¥[UZ¥\_W¥^P`\_  
@HWI-EAS443:3:94:537:1076#0/1  
ATTTGCGAAAAGCTTGAACAGTCTGGGCTCCCAGTAGGGG  
+HWI-EAS443:3:94:537:1076#0/1  
Y^^^^`^^^`]^`aaaaa^`^a^`¥¥RY\_\_`[`P\_]YXX  
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CTAGCATTCTGCTGGTATTTGTGTTCGAATCTTCATTCT  
+HWI-EAS443:3:94:553:85#0/1  
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ATCCGACTCTACTTTTCCTAAAAATTCCAGCGCAAATGC  
+HWI-EAS443:3:94:577:1502#0/1  
a]a^aa\_aaYa`[R`\_aZ`\_`a\_]`¥\_]\_\_\_\_`X\_^^^  
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TCCATGCTTTTGGCTGGACCATGGGCTGGCATTACCACAG  
+HWI-EAS443:3:94:587:1557#0/1  
abaaaaa\_]`aX[aa\_]\_[[X¥]\_]`^a^Z`a`aY¥\_[]`  
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+HWI-EAS443:3:94:588:554#0/1  
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+HWI-EAS443:3:94:596:2016#0/1  
aba¥aaaa\_\_\_aaY\_\_\_Z¥\_\_\_[\_W[`WYY\_\_\_[Z¥¥^`\_¥Y  
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+HWI-EAS443:3:94:629:68#0/1  
Z\_babU]^Uaa¥Jab`a\_aUaa[Q[\_\_\_XaV\_\_\_Ya¥]^\_¥  
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+HWI-EAS443:3:94:630:999#0/1  
V¥ba\_ab`¥\_b^abb`¥¥`\_`aaaaa]`aX^\_ZP¥Z]WJ  
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+HWI-EAS443:3:94:633:195#0/1  
a`a`ababaa\_aYaa`aa`[\_aa^aY^a]`\_]`X]\_]\_\_Y  
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+HWI-EAS443:3:94:658:825#0/1  
aYVYa[aaaaa`]Y\_ZZZa^aa``aWaZ``\_a`^¥\_Z[\_  
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+HWI-EAS443:3:94:667:518#0/1  
^RRZDYV\_\_a\_Z\_\_YV[¥\_a[WW\_]`IDXLYWV`V]¥[  
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+HWI-EAS443:3:94:769:1738#0/1  
aa[`V^\_\_\_\_\_a\_Va`¥a\_\_a]\_]\_`T\_U`\_a\_^a\_¥U^  
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+HWI-EAS443:3:94:796:552#0/1  
a`a`Za^a¥aa`^\_a^` `^`\_`a^a^aa` `S\_\_^Y^` ¥Z  
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[^Ya`aba]Q[]aVP\_I^aaaUaaab`a\_]\_a[a\_\_aTP  
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a\_abZW`aa`aU[]` `TXa` [\_a` `^`S[\_a` ^[\_a¥a`  
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+HWI-EAS443:3:94:842:1910#0/1  
aabaa]a\_¥^`a[\_b` \_\_\_`a^a]\_\_]`aZ^[X]\_\_\_¥` ]  
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^¥[0OVUTURWaaa¥WX¥^W¥[aXY` ]^a]WX\_¥YXMQ]V  
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+HWI-EAS443:3:94:869:500#0/1  
aaa`\_aa`b\_aa\_\_\_\_` ` \_`\_a` ]\_\_]]]aX\_Z`^\_[^\_`^\_  
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ATTGATGCCAGGGTCGACTTCGAGTCTGGACGGATCAAGA  
+HWI-EAS443:3:94:870:2025#0/1  
aa^¥\_VO¥` ` ]`a0a` `^^\_aa\_USZ\_\_` ^¥V¥U[ `a\_^  
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GAGATTTCTTTCACAATCACTGGGACAACACTAAGTGGA  
+HWI-EAS443:3:94:981:709#0/1  
aZYDVY`Xa^\_Y\_Y¥]^WWW]\_¥]WF[[¥]^[\_¥Z`J\_^]  
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+HWI-EAS443:3:95:1011:1035#0/1  
aaabbabab`aababbba`\_`\_bbba`a`aaaaaa\_^`\_`\_  
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+HWI-EAS443:3:95:1016:362#0/1  
`aYaa¥aaa` `a`Waaaa\_\_a`Waaaa\_a\_^a^\_a`^aU



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+HWI-EAS443:3:95:1021:1749#0/1  
\_S^ZY`\_Zaa`T`¥ba]`ba^b\_^[^Vba[ba`bKb[  
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+HWI-EAS443:3:95:1036:1382#0/1  
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AAGAGAGGCTATCTAATAAGAGCACTGACATTAATACGA  
+HWI-EAS443:3:95:1053:983#0/1  
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+HWI-EAS443:3:95:1135:398#0/1  
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+HWI-EAS443:3:95:1177:1245#0/1  
aaaa`aaaaaaa`a\_aaS\_aaa````\_`Z`W]`\_¥`a\_Z¥  
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+HWI-EAS443:3:95:1218:643#0/1  
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+HWI-EAS443:3:95:1259:372#0/1  
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`b\_¥^\_P\_R\_T[^a]K\_Xaa^S``]aa]aX[aa\_a`]a\_`  
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a` `babbbbbbbbab¥bbbaabbbbbbbabb`bababbb^  
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+HWI-EAS443:3:95:1496:1438#0/1  
ab\_bZb`^Y`K` `bbb`b]b`aSabb¥b^bb\_b\_\_Wba]b  
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+HWI-EAS443:3:95:1504:107#0/1  
¥`¥`aab\_ab\_ba\_baaaabKbb`a^aababbbbaab`¥b  
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¥`¥^babb`]a`b`\_\_abbba\_V\_b` `^babbbbaabbb]\_  
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^`b`b`b`b`^a^`bbba\_bbba`a]bbbb`bbbbbba[[b]b  
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+HWI-EAS443:3:95:1573:2003#0/1  
ab^baW^Y\_\_]\_b` ``¥¥Va\_a`bba[ `b¥a\_aaab`a  
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+HWI-EAS443:3:95:1676:625#0/1  
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@HWI-EAS443:3:95:1697:150#0/1  
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+HWI-EAS443:3:95:1697:150#0/1  
\_b^^`aaaaaNa]Z\_b^]^ZY¥^aa][[\_^\_] ^TDV[^T  
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+HWI-EAS443:3:95:1745:469#0/1  
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AAAAATTCCAGCGCAAATGCCATAAGCACCATTCCT  
+HWI-EAS443:3:95:228:438#0/1  
aaaa`aa\_a\_a\_a^`Y[¥\_\_\_\_aa\_\_`¥a\_]`^^^UYU^  
@HWI-EAS443:3:95:246:195#0/1  
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+HWI-EAS443:3:95:267:758#0/1  
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+HWI-EAS443:3:95:294:301#0/1  
aaaaaaaa`aabY\_\_`\_\_\_`\_aXa`\_\_`a]\_\_\_XXR^^]]  
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aaababaaba`aa\_`a^a\_\_a\_\_`a¥aaV\_]V]`\_Y^U\_a  
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+HWI-EAS443:3:95:343:177#0/1  
a\_Q¥\_[\_S]Z]Y`]XW\_^RW¥W¥TTX[`Z¥[Z[\_Y\_^\_[  
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+HWI-EAS443:3:95:424:2001#0/1  
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@HWI-EAS443:3:95:464:1669#0/1  
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+HWI-EAS443:3:95:464:1669#0/1  
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+HWI-EAS443:3:95:514:308#0/1  
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+HWI-EAS443:3:95:523:700#0/1  
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+HWI-EAS443:3:95:748:95#0/1  
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+HWI-EAS443:3:95:772:1765#0/1  
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+HWI-EAS443:3:95:914:1488#0/1  
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aab¥`a`^^a\_[b`aab[^b^X[\_a``baa``a\_`^``¥a[  
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+HWI-EAS443:3:95:953:1151#0/1  
^VZX¥W¥ab`¥\_ba\_]\_TYU]\_0[a`[b¥[W^PUV¥T]WSa  
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+HWI-EAS443:3:95:977:979#0/1  
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+HWI-EAS443:3:96:1047:1353#0/1  
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+HWI-EAS443:3:96:1184:1206#0/1  
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+HWI-EAS443:3:96:1361:987#0/1  
aa^aab`\_a\_[aa\_a\_\_b`\_¥\_aaa\_V`aVWM`\_`\_^\_\_\_\_`  
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+HWI-EAS443:3:96:147:82#0/1  
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¥]bbbb¥]Yba]b`\_]a`a`\_a\_¥^\_aa^aa¥bb\_Y\_¥]H  
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a^\_\_^`XV[a^X\_aa^U`\_X¥[`\_]\_RQWTV^ZSMU]]B  
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+HWI-EAS443:3:96:245:1119#0/1  
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+HWI-EAS443:3:96:590:1352#0/1  
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+HWI-EAS443:3:96:770:393#0/1  
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+HWI-EAS443:3:96:780:1549#0/1  
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+HWI-EAS443:3:96:783:1598#0/1  
aaaa^a`aa`^aa\_` `aaa[aa\_\_^\_` `]¥TR`aa\_^XZ¥  
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+HWI-EAS443:3:96:79:921#0/1  
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+HWI-EAS443:3:96:832:1649#0/1  
aUb]\_aU\_[aa^^]aa\_aa]Y[^aQ[\_¥]a0\_\_\_\_a\_S]0`  
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+HWI-EAS443:3:96:848:1098#0/1  
aaWa`]]`aaaa\_\_`a`a`a\_\_a\_\_a\_\_`^a``\_`¥`Z`\_  
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ab`a¥`b`aaaabW^W^aba`aR[b\_\_a^¥``[PPQb`\_V  
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+HWI-EAS443:3:96:99:774#0/1  
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+HWI-EAS443:3:97:1081:1289#0/1  
\_aaaaa`aa`a`aZaa`aa\_a`a`aa^W`a¥\_Y\_]`  
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+HWI-EAS443:3:97:1082:1748#0/1  
a`\_\_Na``aa``\_a`\_`a¥\_¥]\_S`\_S`^T`ZaYSPY^\_\_  
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+HWI-EAS443:3:97:1100:748#0/1  
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+HWI-EAS443:3:97:1252:1750#0/1  
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+HWI-EAS443:3:97:1310:1375#0/1  
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U¥]\_X¥bP^^`^bb`a``bbaba`a[`I`baba]bb\_Va  
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a[``Y¥aa\_a`aa`aaaa`aaaa`YXY[Y\_`XZ[\_]P  
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ab`b`aba\_^Q0^aZaaaa`aaa``S]¥aY]aY``¥a]  
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+HWI-EAS443:3:97:1737:115#0/1  
aa\_aaabaaaXUaaa\_a\_a]a\_a]`YU`\_V`YaZJVZ]¥N  
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[`````bVaX¥]\_a]T`T\_Xa\_aa^ZaYZ`[Y\_a\_YJVa\_  
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+HWI-EAS443:3:97:250:1176#0/1  
a\_ba\_]b]`b`N^aVba¥\_b\_^baababab¥^]\_[a`a]a  
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+HWI-EAS443:3:97:251:1710#0/1  
\_`bb\_`¥aaa^abb`bba`^Qaaa^^aa]abbaaba`aaa



+HWI-EAS443:3:97:846:1676#0/1  
\_b`a]aZ\_Z`Y`I`a`a\_Ya\_\_a`^^a]\_^YQZX]0¥  
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a\_XaaZaa`^\_aaaa]aX\_]^\_]^^^X^^]^ZZ\_X  
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+HWI-EAS443:3:97:858:1065#0/1  
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\_ab\_WZ\_UZ\_V\_a[FW\_Wab^aaX`OY\_K`a]ZaaaaV[\_  
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^]``ba^^[baaa`^bZ`YY]]][a\_a`¥¥aT]V]aRZ¥V  
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+HWI-EAS443:3:97:943:1830#0/1  
ab\_bY`]a\_^JYVaaa\_\_a\_aV¥a\_L¥a¥a\_]J][a```]  
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]\_¥a]Va\_a¥XMF^`aZWYP`UP`\_]a`\_]GVJW[\_a\_[M  
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+HWI-EAS443:3:98:1010:536#0/1  
a`\_`aX`\_`\_`\_`^`Za¥W¥R^`\_¥Z^¥Wa¥Z\_]ZY\_[R[  
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a`V[PX]\_a\_SSaaaa[aa[aa[^G`¥`N\_]GY`[G`UBB  
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+HWI-EAS443:3:98:1025:1155#0/1  
aaaaba`aa`ab`aa\_baaaa`\_\_aa\_`aa\_aa\_`aZ\_^  
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+HWI-EAS443:3:98:1099:327#0/1  
a`\_a\_a`[`]RVZ^a\_aa`Z\_aaW\_]\_`[^\_]¥`R)`UUU  
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+HWI-EAS443:3:98:1120:1955#0/1  
aaaa`^a\_aW`\_aaaa\_a\_0\_aaa^¥`]Z\_^^`]^ZZ]\_\_

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+HWI-EAS443:3:98:1168:1669#0/1  
abba¥babaa\_a`bba\_Z`a^`\_`abX`baaa`^`b  
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GAATCAGCTGACATGAGTATTGGAGTAACAGTGATAAAGA  
+HWI-EAS443:3:98:1191:1294#0/1  
a`\_a\_¥bYbVb\_baabb]`abaa`\_^aaZb`ab\_b^¥ab\_  
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a`U`^Z]T¥a^]a[[a`X[GU[\_UPW^\_\_\_X]V]YWTSVY  
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ab]Z^]^[Xa`ba`a]ONQRIa\_abb^a`\_L¥Zaa`a¥`  
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\_\_\_`^b]Y\_aaaa^Y[ba`^`a\_`a^aaXWP¥P^`^WVN\_  
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AAATTCCAGCGCAAATGCCATAAGCACCACATTCCCTTA  
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a^[\_Y]¥Ta`\_]`\_\_aa]¥\_aa\_aS\_]Z^`¥\_`OLG]¥`  
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a`aa`b\_baa`aaaba`aaaaaa`\_aaa^aaa[a`a]`aa  
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+HWI-EAS443:3:98:1369:346#0/1  
aaaaa\_aaaaUab[\_`a`b`a\_`a¥aX`Y``aa]a`[aa  
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+HWI-EAS443:3:98:1395:1359#0/1  
]bUbb\_aX[aba¥`^¥aYbZI¥PP[b\_aa\_I^^bS`a^Y`  
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+HWI-EAS443:3:98:1431:1369#0/1  
abbYF0a`bb\_II¥`a^\_a\_Y¥\_]ITTa\_G\_baa`]`a`]  
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aa\_¥aaW`a^`ba]aa`\_]\_`^`¥W^]W^W^U¥W¥]^  
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+HWI-EAS443:3:98:1515:778#0/1  
a[^`ab`ba^`aaa\_a^`a`a`\_`^`^`¥^`\_`^`]^`\_`\_`\_`  
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`Y\_]aY¥[ZX]S`Z]a`aSaU^SVL[\_][RU^]ZX]TY  
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a`a`aaaba[aa`Y\_^[\_ba]^a^a¥`\_`\_`^`aS\_a[ ]\_¥  
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aab\_ababaabab\_abba`Yaa^bb[\_bbab\_aba`\_`ba  
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+HWI-EAS443:3:98:1752:718#0/1  
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GTAAGAGACAACATGACCAAGAAGATGGTCACGCAAAGAA  
+HWI-EAS443:3:98:232:1193#0/1  
aSVW]W]aa]\_R`a`YV`a]`VJTZWY`]^`\_`PRV^R¥RZ  
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a`^aab`¥`¥aaa`a\_a^`\_]`^`^`a^`\_`^`^`^`[Y`  
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aab\_aa]aaa\_aaaaaa`]aaa`baaaa`\_\_aaaa`\_`\_`  
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CATTATCCTCAGGTAGTGGTCCATCAATCGGGTTGAGCTG  
+HWI-EAS443:3:98:261:338#0/1  
aa^`¥b¥`\_`\_`aaV`\_]`¥U[¥`aaa`aaaa`\_`\_`a^aU^¥  
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CAGATACACATATAGGTGCCATAGGGGAGACACACAAATT  
+HWI-EAS443:3:98:274:1969#0/1  
`a`\_`a^¥^`aaaa[AS`a[```a\_^Y^]a`a^a`\_`\_`^]X

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aa]WY\_aaba\_`b\_YY^[^`^`a]X][X^`\_U`][X  
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+HWI-EAS443:3:98:449:1684#0/1  
¥Q[M^bb¥Z^\_T\_X[XZ^\_XQ¥¥^`\_YaTXLX\_RRV]`Y[  
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a`\_aa`a\_a^\_\_a]\_`\_a^\_\_\_^`^`X\_ZX`\_`^]VX  
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aa\_aaa\_aaa`\_`W`^\_a^\_a^a`Z`\_\_[-`]-Z\_]  
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aaa\_]Wa`aaQaaa`\_aa`a`¥`aaa`[a`\_`^a^U`a^  
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a`\_Q\_\_VWb\_a¥a`\_`bbaabbaaaaaX\_aaaTaaaba`\_`  
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aa\_a`U^ab\_N]b\_b[aVba`\_aS`\_aa]`^OVa[^Xa[  
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aa\_\_\_a\_aa\_abaaaab`Saa^a`T^Z^a`^a`\_`\_`\_`\_`  
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+HWI-EAS443:3:98:647:572#0/1  
aa]`\_`a\_aa`\_a`a\_aY``aa\_^a]\_`[^aW\_\_\_\_^\_\_\_\_  
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+HWI-EAS443:3:98:750:1648#0/1  
]ITO\_WRQ]\_`]J]P]WZ^R[WYX`Z]ZLR^VQZ¥H]`]G  
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S\_``bbbaaabaa``a`aabb`\_ZZ\_aa¥]`aa`S\_¥a\_  
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aaaa\_a`¥Y[\_¥`X\_\_`^`\_Y^`\_^\_]^^Z^Z\_\_ZVXX\_  
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a\_abaa`b\_aaaaaa`aab^aaa[[aa]aX\_`a\_a]\_U]  
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+HWI-EAS443:3:98:829:908#0/1  
abaa`bbaaaba]a^^`^^a]aaaaaaY^a\_\_b`aa`a  
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+HWI-EAS443:3:98:840:81#0/1  
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+HWI-EAS443:3:98:841:775#0/1  
aZ^Z]a[`aa]a]YNY¥]¥¥`¥0¥\_RQHWS`OMUN`SWW]



@HWI-EAS443:3:98:874:971#0/1  
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+HWI-EAS443:3:98:874:971#0/1  
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AGGCCATGGTGTCTAGGGCCCGATTGATGCCAGGGTCGA  
+HWI-EAS443:3:98:87:2025#0/1  
aQL]\_`¥ZWN¥]aZ]¥X¥¥`Z^X¥R^Y]W¥^ZVZQNRP]B  
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GATTCTTCAAGGAAAGCCATAGCCTCTAGAACACAGTCTG  
+HWI-EAS443:3:98:87:974#0/1  
aaaaababaa`^X¥\_aaaa\_a`a`\_`aa```\_]aa]^`a  
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+HWI-EAS443:3:98:905:1222#0/1  
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+HWI-EAS443:3:98:92:807#0/1  
^a\_aa^`a`\_]a\_\_^\_aa]\_a]`S`Va\_]ZZ\_Y]RMU]¥  
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+HWI-EAS443:3:99:1681:1015#0/1  
aa\_a\_abb^baa`\_abb``ab\_aa\_a`aaa`a\_\_\_\_\_a\_`^  
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+HWI-EAS443:3:99:253:1291#0/1  
TW¥\_\_\_W¥XW]^MZ¥R\_\_LZ^¥`ba\_\_Y¥a¥]]`a)`[ZT  
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a`^`\_\_Z\_]^X]abaaa```¥`X]^U¥^``a¥Y][Y\_^¥Y  
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+HWI-EAS443:3:99:66:343#0/1  
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a]ba\_UXW[^aaab`WY¥Y]aa`\_VSW^I`]\_\_\_W`a`XB  
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+HWI-EAS443:3:99:723:349#0/1  
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+HWI-EAS443:3:99:737:484#0/1  
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+HWI-EAS443:3:99:95:602#0/1  
a\_aaaaaaa`\_`aa[\_\_\_a`````]\_\_\_a^`\_^`\_^`\_`VBB  
@HWI-EAS443:3:99:976:1887#0/1  
AAACAAGGGTAGATAAACTAACTCAAGGTCGCCAGACTTA  
+HWI-EAS443:3:99:976:1887#0/1  
aa`^baa`aN`^aa`^a[Sa\_\_aYaa`\_U\_a`0[a]Za`^  
@HWI-EAS443:3:99:97:226#0/1  
GGGGCAATGAAAAGAAGCCAAACTGGCAAATGTTGTGAG  
+HWI-EAS443:3:99:97:226#0/1  
`b`ba[aa]VXZ\_Y]\_\_T\_\_\_\_\_a^\_\_^^`\_]V\$SYaV`W\_  
@HWI-EAS443:3:99:993:1789#0/1  
AGGGCTATTAGTATCAGATGGAGGACCAAACCTATACAAT  
+HWI-EAS443:3:99:993:1789#0/1  
XbYa[abaabbWaa\$]ba\_aaab]`\$aaa^`ba`^`a\_  
@HWI-EAS443:3:9:1012:364#0/1  
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+HWI-EAS443:3:9:1012:364#0/1  
abbbbaa\_a`[[aaaaaba`aa`a^\_]aaaYa^`a`a\_aa  
@HWI-EAS443:3:9:1036:820#0/1  
AGAAATCTCTGTGTCTTGTGAATTAGTCATCATCTTTCTC  
+HWI-EAS443:3:9:1036:820#0/1  
]^```\$RY\_ZI`ZO\_^TOVIYN[U^TH\_`[K]\_^T^V\_B  
@HWI-EAS443:3:9:1076:1688#0/1  
CATGGTTTGGTGCATTCACTATGAGAGCAAAATCGTCGGA  
+HWI-EAS443:3:9:1076:1688#0/1  
`\$Y\$[GX^a`Za`Uaa]\_\_`\_]\_U\_aNaHU`XGU\$ZNNZBB  
@HWI-EAS443:3:9:1093:692#0/1  
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+HWI-EAS443:3:9:1093:692#0/1  
aYMSLPU`\_^T]^RZ`UZ\_V\$V\_U[VVV]XUXY[M[TUBB  
@HWI-EAS443:3:9:1117:1141#0/1  
TGCTTGTATTCCCTCATGGTTTGGTGCATTCACTATGAGA  
+HWI-EAS443:3:9:1117:1141#0/1  
aa[`ab`aabaaaa`abb\_aaaaObaaaa^`Wa`a`\_a`  
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TGCTTGTATTCCCTCATGGTTTGGTGCATTCACTATGAGA  
+HWI-EAS443:3:9:1125:741#0/1  
a`aa\_a`\_a`a`\_`\_aaW`a`\_Y`]`^`\_^`\_Wa]``^`]  
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+HWI-EAS443:3:9:1130:1537#0/1  
a\$YZ\_[P]\_Y]\$`^[RX```aV`aX^Xxaa`BBBBBBBBB  
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CTGGTATTTGTGTTTGAATCTTCACTTTTACTCTCGAA  
+HWI-EAS443:3:9:1136:1538#0/1  
a^aaP^a\_aaYba^a^a]`aa`^^`\_`\_a`a\_X`X\_\_a`\_`





+HWI-EAS443:3:9:1600:1468#0/1  
ab\_bbbab`[aaba`aaaaaa`a```\_aa\_aa\_a]``aa  
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+HWI-EAS443:3:9:1609:1213#0/1  
a)`a¥aa[a`\_a[X`S0][Wa\_^\_]`Y¥R^RS^[T]][  
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+HWI-EAS443:3:9:1712:428#0/1  
a\_P¥`^]Y\_¥][^][^`^`\_^UN]MT[PY``VMP^U\_  
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aa`bbbbbbbbbbab`a`aaaabaaaaaa\_a^`a\_a`  
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a\_abb\_ZS[baba^]`\_ab```aaaa`^aaXNY^¥`\_a\_\_  
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aa`aZa^ba\_```aa]aa`aa]`a\_\_a^aaV```\_\_\_Z\_^  
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+HWI-EAS443:3:9:237:432#0/1  
```a\_X^ZX¥¥\_P[Y`]S]\_RVYZWHR[XZU[OZTO]^BB  
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+HWI-EAS443:3:9:24:1165#0/1
aabaaaaaabaaaaa¥W]aa`^a___a```^`[_`_]`^]`
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CAAAGCTGGGTAGCTCCATGCTAAAATTAGCCACAAATCC
+HWI-EAS443:3:9:261:532#0/1
ab_bababb`YX_aab`Z`a`^``_aa`^``a_Ya_`_¥R
@HWI-EAS443:3:9:321:659#0/1
GAGGCCATGGTGTCTAGGGCCCGATTGATGCCAGGGTCG
+HWI-EAS443:3:9:321:659#0/1
_^aaaa`aaZ`¥aT`a[`````¥¥^`_a_```a^]Wa`
@HWI-EAS443:3:9:330:1564#0/1
GATTGATGCCAGGGTCGACTTCGAGTCTGGACGGATCAAG
+HWI-EAS443:3:9:330:1564#0/1
]`^TZbXa^^a`^`]b][ab__`aXQ__a`_`U_Y`aXaR
@HWI-EAS443:3:9:330:903#0/1
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+HWI-EAS443:3:9:330:903#0/1
^¥a`a_¥¥TUY^a`__V[UY^`V__YZ¥_SSZa]T¥^Y¥Z
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+HWI-EAS443:3:9:356:623#0/1
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+HWI-EAS443:3:9:381:1568#0/1
abaa``_`a_^`____[a^`a^`__a_X`¥a]]^^X^
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+HWI-EAS443:3:9:414:469#0/1
aaa`abaabbaaaaa_a_aaa```a`aXa]``a__^a``
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+HWI-EAS443:3:9:446:1988#0/1
a_]`aaa¥Z`aaa_a``aa[X_`_a_^VaW__`VU^`^_
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GGTGTGTTCTGTTTACTGTGTCCATGGTGTATCCTGTTCC
+HWI-EAS443:3:9:456:151#0/1
aaZ_V`Z`^^ZZ^]_W__¥VWWTW_^U]YWVTTY]UXWW
@HWI-EAS443:3:9:457:1516#0/1
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+HWI-EAS443:3:9:457:1516#0/1
[aab_¥]b`a`Z]_Ya_baaa__aWa`aaa_YZ[`[X`_
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+HWI-EAS443:3:9:467:1934#0/1
aa````_aa`aa_^`_aaa[a^V][¥^[[^^¥_]XZ]_^
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+HWI-EAS443:3:9:489:341#0/1
ababb__aa_b`aab]b`aaa¥aa_aaaa```ab_aa[_aY
@HWI-EAS443:3:9:565:1491#0/1
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+HWI-EAS443:3:9:565:1491#0/1
I¥`bbba¥VY`bWW^ab__Z_Y``R_bbZ`baab`a`bb`
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+HWI-EAS443:3:9:608:1781#0/1
^a`US][OZ]TU]¥Q]SYZ]VNSUKNTTRZ`_^VQUXUYB
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+HWI-EAS443:3:9:614:1931#0/1
aa__aa__GXaa`aa^``aa]`^Z¥a]a^`__U^W____
@HWI-EAS443:3:9:625:489#0/1
GGATTTGTGGCTAATTTTAGCATGGAGCTACCCAGCTTTG
+HWI-EAS443:3:9:625:489#0/1
aaa`aaa^aaaaaaa`Y`_```^Z^V¥_^_]ZU^__]
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+HWI-EAS443:3:9:667:208#0/1
_Wab`aa_a`aZ`_a`aW^]^^_ZYW^^]VTHXUXUW
@HWI-EAS443:3:9:719:362#0/1
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+HWI-EAS443:3:9:719:362#0/1
a`a^a_a]]X]_^_a^]_`X_YX^^`_]XYU]X]_X
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GACGGATCAAGAAAGAAGAGTTCTCTGAGATCATGAAGAT
+HWI-EAS443:3:9:739:367#0/1
aaabb````aaaa`a`````a]`^^^`_^]_````^`_^
@HWI-EAS443:3:9:758:1390#0/1
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+HWI-EAS443:3:9:758:1390#0/1
a_a¥a`[_Ua_a]X]^¥_Z`]_¥VW^¥W[¥[Z¥_^Z¥_Y
@HWI-EAS443:3:9:761:462#0/1
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+HWI-EAS443:3:9:761:462#0/1
a]aa`_Z``_S`_UWZ`^^_W]_`¥ZW`^W[GZS¥¥¥¥¥
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GTCCTCCATCTGATACTAATAGCCCTACCTTTGATTGGGT
+HWI-EAS443:3:9:778:501#0/1
a_^_aaaaaaa]`a^aa`a_a^^^`_]¥^W]``Z]_`_]
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+HWI-EAS443:3:9:784:708#0/1
Z`ba[a^]¥`b]^^YbT^aaab[OXaY¥Z`_a]]_^Xa
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+HWI-EAS443:3:9:811:1953#0/1
aa`aba_b_aaaaa`__a`^_``[``^a`X_a^]__aX
@HWI-EAS443:3:9:848:821#0/1
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+HWI-EAS443:3:9:848:821#0/1
aTWXaWXXaU_¥¥]H¥[XaWXY]__YV[VUYX]_aURQQ^
@HWI-EAS443:3:9:931:742#0/1
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+HWI-EAS443:3:9:931:742#0/1
a]ba_aaaaa_``aaa_aba¥``_`_^```_^[`W_`¥]`
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GCCTTCCTGACTCATTAGCTGTTAGGCCATTGATCTAAA
+HWI-EAS443:3:9:993:435#0/1
a¥^_a]]_`^[_^¥`]]`_^XKR]]]YWZSWY[SWWSWZW
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+HWI-EAS443:3:14:1281:216#0/1
`[_`Y`^]`¥Z_Z]Q_[_]T¥DT]FX¥YXOOQ]VZXWBB
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+HWI-EAS443:3:12:498:685#0/1
a`a_baa`aba_aaa]a[``]^¥VVRPLPLLYUEXaaBBB
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AGACAATCCACGCCCTAATGATAAGACAGGCAGGAGTGGG
+HWI-EAS443:3:20:221:643#0/1
aaZ[_Yabab````¥[O^S^a¥_`Y`^U`BBBBBBBBBBBB

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aabbbY¥bbaaaa`aba`_aab_[aabbbb[`[BBBBBBB
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+HWI-EAS443:3:29:462:1002#0/1
_aaa`baab[aaVUZ^¥Ra`V^`__aa¥_V_[^¥YZZ^Y¥
@HWI-EAS443:3:29:740:39#0/1
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+HWI-EAS443:3:29:740:39#0/1
aba`bababb`_[_ba`Yaa__aa¥]___`][__X_`X]]
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+HWI-EAS443:3:40:1789:1176#0/1
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+HWI-EAS443:3:4:1213:773#0/1
aa__a_a`^a_aY^)`a`a_¥`^`^S^[^BBBBBBBBBB
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AAACCAGACATATGTTAACATCAGCAACACCAACTTTCCT
+HWI-EAS443:3:58:602:1574#0/1
a`^ab¥PM[aa`a^a`a_[PYYXQ]`aY`aYYQL`_R]J_
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+HWI-EAS443:3:60:724:687#0/1
ab]]bbbaa`baaabaa][^aaa[```QBBBBBBBBBBBB
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+HWI-EAS443:3:60:906:1139#0/1
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+HWI-EAS443:3:69:1542:1692#0/1
_bab^baba_baZPH][__aQ`a`YNT^¥R^¥_Wa__`a_
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+HWI-EAS443:3:74:974:657#0/1
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+HWI-EAS443:3:83:418:1850#0/1
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^YV__¥]_[aa¥]`^_TZa[[`a¥L_]_]¥a[BBBBBB
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GATGATTTGGGATCCGAACGGATGGACTGGGACTACAGGC
+HWI-EAS443:3:98:250:1068#0/1
a`^YV]_`_^`a]```]`]]VaZYY^a_a]]¥RIY_`_
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+HWI-EAS443:3:96:1381:1511#0/1
Z^_Z`_WUa]a`bX_I¥PPXb[VMZ^UPDRWLQ]W[MVBB
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+HWI-EAS443:3:12:1592:893#0/1
UY[OR_R_[_]UZ]`_`U_ZQXW]BBBBBBBBBBBBBBB
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+HWI-EAS443:3:22:900:1685#0/1
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@HWI-EAS443:3:23:25:1364#0/1
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+HWI-EAS443:3:56:1403:1008#0/1
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+HWI-EAS443:3:5:1700:639#0/1
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+HWI-EAS443:3:66:1106:79#0/1
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+HWI-EAS443:3:68:757:130#0/1
KVKK`[[[WYGP[RYM[PMW[UYPG^WW[[W[UUWLZP
@HWI-EAS443:3:6:1131:786#0/1
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+HWI-EAS443:3:6:1131:786#0/1
`]a¥IW^VNZ[¥J__Vba`WYZBBBBBBBBBBBBBBBBBB

@HWI-EAS443:3:84:201:473#0/1
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+HWI-EAS443:3:84:201:473#0/1
abbaabTTb`bbbb_`¥aaa]^UJUyF¥VXUVIaQTM`B
@HWI-EAS443:3:92:125:939#0/1
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+HWI-EAS443:3:92:125:939#0/1
_`b_Y^`aX`a`abY^[NS¥U[WSR¥b^YBBBBBBBBBB
@HWI-EAS443:3:95:742:451#0/1
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+HWI-EAS443:3:95:742:451#0/1
``]b_bbab]Ub]]]aba_`_]F]UPWaHaXxaaH_GWR
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+HWI-EAS443:3:99:1028:20#0/1
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+HWI-EAS443:3:14:1624:1015#0/1
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+HWI-EAS443:3:21:458:651#0/1
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+HWI-EAS443:3:54:1166:531#0/1
^baaa]]`^bXRDMV``[aa^_a]^¥[a_RaV]U]Y¥Y¥^
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+HWI-EAS443:3:61:1757:1771#0/1
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+HWI-EAS443:3:73:1141:366#0/1
ab]D¥babbaaaaab`abVa_a_aaaaaaaaa^aa```aa]
@HWI-EAS443:3:84:1631:116#0/1
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+HWI-EAS443:3:84:1631:116#0/1
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+HWI-EAS443:3:21:1103:1722#0/1
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@HWI-EAS443:3:57:560:1144#0/1
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+HWI-EAS443:3:57:560:1144#0/1
`¥``aaaaaa`_``]_`aZQX`_YV[XUYZZXUU¥^`UT
@HWI-EAS443:3:18:723:1776#0/1
GGAATTTCTGGCCAGACAATGGGGCAGTGGCTGGGTTTA

+HWI-EAS443:3:18:723:1776#0/1
_`a`^`^`^`Xa`a`_aa^_]`^]Y`^QB
@HWI-EAS443:3:20:87:1076#0/1
GGAATTTCTGGCCAGACAATGGGGCAGTGGCTGGGGGGA
+HWI-EAS443:3:20:87:1076#0/1
aa]`^]U^U`^PWXR`T`^YIXaRNZ`BBBBBBBBBBBB
@HWI-EAS443:3:24:913:1079#0/1
GCGCTTCATTAGACGATACTGGACCACAACTGCCTGTCTT
+HWI-EAS443:3:24:913:1079#0/1
a`b]ba`U`abaaaa`WNQ`[R`VS[XFVY`SZHMDXa
@HWI-EAS443:3:26:1273:716#0/1
AACCAAACATATGTTAACATCAGCAACCAACTTTGCTG
+HWI-EAS443:3:26:1273:716#0/1
a`^ZFPZa`JYTT`W`T`___a`[W`S`aWa`_WLRaS`[`
@HWI-EAS443:3:34:174:1878#0/1
CCCTAATTTACGAAACCACTGACTGTCCAGCAGCGAAG
+HWI-EAS443:3:34:174:1878#0/1
]HZ`^`VQaR`UX`[`aa]`Ua`R`]BBBBBBBBBBBBBBBB
@HWI-EAS443:3:34:365:886#0/1
GGAATTTCTGGCCAGACAATGGGGCAGTGGCTGGGGTTT
+HWI-EAS443:3:34:365:886#0/1
a`[``aaaa`___`aa]`^aa`^^^]`^`_UWBBBBBBBBBBBB
@HWI-EAS443:3:35:402:1365#0/1
AGATGATTTGGGATCCGAACGGATGGACTGGGACCCCTTT
+HWI-EAS443:3:35:402:1365#0/1
]Z`^][a``aXXVaa`aa`_`_`X`_[VVRYXM`_]`RS`
@HWI-EAS443:3:44:444:308#0/1
GGAATTTCTGGCCAGACAATGGGGCAGTGGCTGGGGTTA
+HWI-EAS443:3:44:444:308#0/1
aa`^``aaaa`a`X`Z`^`^]T`[[Z`W`W`_BBBBBBBBBBBB
@HWI-EAS443:3:49:1183:1346#0/1
CCAGCAGCAAAGTTGGTGTGCTGATGTTAACATGTCTGG
+HWI-EAS443:3:49:1183:1346#0/1
aa`a`^aaa`aab`a`a`aaba`b`a`a]a`^`_]`^``__aa
@HWI-EAS443:3:56:660:1253#0/1
GTGCAGGGATAACTGGCATGGCTCGAATCGACCGGGGGGG
+HWI-EAS443:3:56:660:1253#0/1
]ZY`^Q`__ZWYQZ]ZZZ`Y`Z`ZW`UPHPRUTTB
@HWI-EAS443:3:59:1051:89#0/1
GCCCCGCTAGTCCAGATTGTGTTCTCTTTGGGTCGCGTA
+HWI-EAS443:3:59:1051:89#0/1
aba_]aaa`[aSS`[^`S`b`^b`^`a``__WM`^QWVU`^`S
@HWI-EAS443:3:63:633:1588#0/1
TGTGCAGGGATAACTGGCATGGCTCGAATCGACCGGGGGGG
+HWI-EAS443:3:63:633:1588#0/1
abZ`_bbbbbabbaa`^a`_YJb`_`GTTMJOX`^QJXVBB
@HWI-EAS443:3:64:1453:1161#0/1
GTGCAGGGATAACTGGCATGGCTCGAATCGACCGGGGGGG
+HWI-EAS443:3:64:1453:1161#0/1
a_]OV`T`_`Y`aX`a[Y]VYBBBBBBBBBBBBBBBBBBBB

@HWI-EAS443:3:65:394:610#0/1
AGGGGAGCAAGTGTTCATGATGGCATCAATTGGCTA
+HWI-EAS443:3:65:394:610#0/1
abb`]aabaaYa`abaab^a`aa[aa`a`a`_a`[_a`_`_`
@HWI-EAS443:3:68:1109:1212#0/1
GATGATTTGGGATCCGAACGGATGGACTGGGACAAGACTT
+HWI-EAS443:3:68:1109:1212#0/1
T]_`bb`b]b``a`[_`bbaababa`````bbaa_Xa`¥`a
@HWI-EAS443:3:81:910:539#0/1
ACCAGTCATATGTTAACATCAGCAACACCAACTTTGCTGC
+HWI-EAS443:3:81:910:539#0/1
aaaa`0]a`aaa`aaaa^aaa_a`_aaV_`_````]_`Y
@HWI-EAS443:3:93:1140:13#0/1
ATGGCATCAATTGGCTAACCAATTGGAATNTCTGGCCNGA
+HWI-EAS443:3:93:1140:13#0/1
aabaY^aaaaaaa``_a`_`_aa_a^XDW]^`¥[T]HDMB
@HWI-EAS443:3:13:1663:357#0/1
ACCAGACATATGTTAACATCAGCAAGACCAACTTTGCTGC
+HWI-EAS443:3:13:1663:357#0/1
]_TXVZZH`a_X_a[¥RX^Q¥`RWTLVIKWOJYN[[P^ZB
@HWI-EAS443:3:18:197:278#0/1
ACCAGACATATGTTACCATCAGCAACACCAACTTTGCTGC
+HWI-EAS443:3:18:197:278#0/1
S`^Ya^^_Xa]QYbbb¥b`a¥_aa_Y^_]`^`aa^`a_Z__
@HWI-EAS443:3:1:1258:466#0/1
GCAGGGATAACTGGCATGGCTCGAATCGACCGGGGTGGC
+HWI-EAS443:3:1:1258:466#0/1
^_a_Z¥W[aaIX¥a`aaVY`aTOQVTJ]VYBBBBBBBBBB
@HWI-EAS443:3:44:1790:758#0/1
CGCAGGGATAACTGGCATGGCTCGAATCGACCGGGGTGG
+HWI-EAS443:3:44:1790:758#0/1
ab]UbbbaZaabb]aaabbaa_^XYBBBBBBBBBBBBBB
@HWI-EAS443:3:48:795:1718#0/1
ATTGGAATTTCTGGCCAGACAATGGGGCAGTTGCTGTTG
+HWI-EAS443:3:48:795:1718#0/1
Kb[_ab`ba`Z`KaU_aY`K`Kb_[Y``a]BBBBBBBBBB
@HWI-EAS443:3:81:224:1521#0/1
CGCTTGGTCAGCAAGTGTTCATGATGGCCTCAATTCCG
+HWI-EAS443:3:81:224:1521#0/1
aa`[TTT[`ZS_WVWL[`TDKTWXMVTV[BBBBBBBBBB
@HWI-EAS443:3:11:277:1213#0/1
TCTGATATTCCAGATTCTGGTTGAAAGACACCCACCCATT
+HWI-EAS443:3:11:277:1213#0/1
]a¥¥¥W¥_]`^aYZY]UaXb]^a_a`[¥XSVJMZ^[_`Z^
@HWI-EAS443:3:14:555:1987#0/1
CAGGGATAACTGGCATGGCTCGAATCGACCGTGGGGGGCC
+HWI-EAS443:3:14:555:1987#0/1
`[_`baJaabb^R``a`XaaSZMX^E¥_PBBBBBBBBBBBB
@HWI-EAS443:3:19:743:1128#0/1
CAGGGATAACTGGCATGGCTCGAATCGACCGTGGGGGGCT

@HWI-EAS443:3:84:636:1830#0/1
TTAGGGTTTCGATATGGGCTCCTGTCTTTAATGGTTNCNTT
+HWI-EAS443:3:84:636:1830#0/1
MZX^_¥T^]I¥T]ZOX`¥¥^`a]U]P`]aa`¥RFOD¥D[`
@HWI-EAS443:3:86:54:492#0/1
GAGACAATCCACGCCCTAATGATAAGACAGGCAGTATTGG
+HWI-EAS443:3:86:54:492#0/1
_K_a[YY_`a_aaQ__YULX¥]_^YSUBBBBBBBBBBBBBB
@HWI-EAS443:3:91:420:1372#0/1
AATCCACGCCCTAATGATAAGACAGGCAGTTGTGGGGCGG
+HWI-EAS443:3:91:420:1372#0/1
`]¥¥_¥Z`a`ba`_`a^aab`aa``BBBBBBBBBBBBBBB
@HWI-EAS443:3:91:743:244#0/1
CAGGGATAACTGGCATGGCTCGAATCGACCGTGGGGGGCT
+HWI-EAS443:3:91:743:244#0/1
abbbbbbbbbbbbbbaaab`¥ZaZ]aVU¥XN_aaZ¥FOP
@HWI-EAS443:3:99:578:1488#0/1
CAGGGATAACTGGCATGGCTCGAATCGACCGTGGGGGGCT
+HWI-EAS443:3:99:578:1488#0/1
a`aa`aaab_`a`a`aaa`]RHQKQSO¥VPSaBBBBBB
@HWI-EAS443:3:65:1564:371#0/1
TGGCCCGCTAATTTACGGAAACCACTGNCTGTCCAGCAG
+HWI-EAS443:3:65:1564:371#0/1
ab`¥¥`¥Z^aaaa]U^L_^`a[P^[ZVDR]^RRU^RUT
@HWI-EAS443:3:77:1459:1742#0/1
ACCAGACATATGTTAACATNAGCAACACCAACTTTGCTGC
+HWI-EAS443:3:77:1459:1742#0/1
aaa]_ba[bb¥[Uaaa_bVD]]`bbaa^``[Saa_`a`a]
@HWI-EAS443:3:95:869:1769#0/1
ACCAGACATATGTTAACATCAGCAACACCAACTTTNCTGC
+HWI-EAS443:3:95:869:1769#0/1
`baRZaaaXQxb^`]¥aY]L_NQaS_Y^a_S_XHDF^_^
@HWI-EAS443:3:11:1186:1126#0/1
CGCGTCATTACTTATGAAAACAACACTTGGGTAAACCAGA
+HWI-EAS443:3:11:1186:1126#0/1
abaaa``aba_abbaa`^^^a``_`]a`_^S[a__^[aa^
@HWI-EAS443:3:13:1526:1231#0/1
GATTTTCGGAGACAATCCACGCCCTAATGAAAAGACAGGA
+HWI-EAS443:3:13:1526:1231#0/1
^`a`]ZU`baa^`aaaX[^QZXYX_BBBBBBBBBBBBBBB
@HWI-EAS443:3:15:428:844#0/1
TGCAGGGATAACTGGCATGGCTCGAATCGAACGTGGGTGG
+HWI-EAS443:3:15:428:844#0/1
]U[b`YaWZX_abaYbaabaa[`Y`YQYLLGX[DL]¥F^F
@HWI-EAS443:3:16:455:132#0/1
ATAAACAGCGACACTGTGGGTTGGTCTTGCCAGACGGTG
+HWI-EAS443:3:16:455:132#0/1
a^`WZ`aa]aX`a^Z]]a^^VNa_OJMW^[`TDRP¥]RBB
@HWI-EAS443:3:18:1655:408#0/1
CAGCAAGTGCTTGCATGATGGCATCAATTGACTAACAAA

+HWI-EAS443:3:18:1655:408#0/1
aaba`b__^aaa`^`a`a¥_[^_X^^a]¥^^¥]_^[^X
@HWI-EAS443:3:18:1664:1196#0/1
TCTTGCTTTATTGAGAAGTTATTGTCTGTCCCCGTCCATG
+HWI-EAS443:3:18:1664:1196#0/1
aaab`_XaY`a`_N_]_b]]]Z`]BBBBBBBBBBBBBBBB
@HWI-EAS443:3:28:1352:1036#0/1
GGCGGGGGCAGCATATCCTTTTGTGGTGTAACAGTGACA
+HWI-EAS443:3:28:1352:1036#0/1
aaa`Wba_S]X[Q[¥XV^```_a[¥VRX_^`]_¥`Y`^YY
@HWI-EAS443:3:30:214:912#0/1
GGGGCTCCTGTCTTTAATGGTCCACTGGAATGTTTGTCA
+HWI-EAS443:3:30:214:912#0/1
^_a`bababa`XH[b^ZW]YN^abXHZ¥V[[]][]ZYJYI
@HWI-EAS443:3:38:1016:421#0/1
CGCAGGGATAACTGGCATGGCTCGAATCGAACGTGGGTGT
+HWI-EAS443:3:38:1016:421#0/1
abbY]a_]babZaaaa`aaYBBBBBBBBBBBBBBBBBBBB
@HWI-EAS443:3:38:1481:1161#0/1
CGGGGCCTTGCTAAATGACAAACATTCCAATGGAATCATT
+HWI-EAS443:3:38:1481:1161#0/1
¥`¥T`aa¥Y0__ab^`a`a`__R^aV^WLF¥]NTGR]a]
@HWI-EAS443:3:38:1670:750#0/1
TCCCAGTCCATCCGTTCCGATCCCAAATCATATCAAAACG
+HWI-EAS443:3:38:1670:750#0/1
Y_[P^_Z_V[`]a[Z¥XWWTQ^`]_]LIPMMMS[^_XDH
@HWI-EAS443:3:40:968:551#0/1
TGCCTCATTACTTATGAAAACAACACTTGGGTAAACCAGA
+HWI-EAS443:3:40:968:551#0/1
aa`a_aaaa¥^aaaaa`a`a^]¥`_]X^Z^]X¥__`a__^
@HWI-EAS443:3:45:1043:1926#0/1
CGGTGTAACAGTGACACTGTGGGTTGGTCTTGGCGAGAC
+HWI-EAS443:3:45:1043:1926#0/1
ab`__^T¥aaabRb¥KY]^_aba_PWb`S[[]aaa_GJ¥[U
@HWI-EAS443:3:45:770:1190#0/1
TGCAGGGATAACTGGCATGGCTCGAATCGACCGGGGGTGG
+HWI-EAS443:3:45:770:1190#0/1
abaaa_b[ba`^abaaaaaa^HPY^[`RNVNG[`aG`Q
@HWI-EAS443:3:47:1505:1044#0/1
TTCGATTCGAGCCATGCCAGTTATCCCTGCACAGACATGT
+HWI-EAS443:3:47:1505:1044#0/1
`^]W^Y]]`_aa[X^`¥YW_[__`]ZUZ^Z__SFV^`__U
@HWI-EAS443:3:53:728:1022#0/1
AGGCTGTGTTAAAGTACAACGACATAATAACAGACACTAT
+HWI-EAS443:3:53:728:1022#0/1
R]¥]`Z^[S_^T]PR_^]V[PSU__ZUY__UUYZZX
@HWI-EAS443:3:56:1262:257#0/1
CGCCCCTAATTTACGGAAACCACTGACTGGCCAGCAGC
+HWI-EAS443:3:56:1262:257#0/1
a¥_]`]OT]TZ__UZ`]UZb``VX¥aa`Y[DMXZKKQWF

@HWI-EAS443:3:5:1365:185#0/1
GGGCAATGGTGTGGATAGGGAGAATTAAGCATTAGT
+HWI-EAS443:3:5:1365:185#0/1
PX[R[aYaN_S_a`_N_baV_^_¥I]`a¥_`ZZa_^aB
@HWI-EAS443:3:63:1561:567#0/1
ACCCTCTCCATACTCAAGATTTGAGTTAGTCGCTTGG
+HWI-EAS443:3:63:1561:567#0/1
a_baaaaaa]X`a`aba]a`baaaa_a^`YXaY`_`]
@HWI-EAS443:3:68:124:1545#0/1
CGCCCCGTAATTTGACGAAACCACTGACTGTCCAGCAGC
+HWI-EAS443:3:68:124:1545#0/1
aabb`ba`baa]G_aa¥_aaaa`a`_aa__V^^¥^^X_
@HWI-EAS443:3:68:1420:2017#0/1
GTTTTGAGATGATTTGGGATCCGAACGGATGGAGTGGGAG
+HWI-EAS443:3:68:1420:2017#0/1
a[```Y`[a`Y^^]^^SZ¥P]__ULZ[[YXWRLVMXUPG
@HWI-EAS443:3:70:1204:262#0/1
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+HWI-EAS443:3:70:1204:262#0/1
`b_UU`ab`YZY`NWL_a__a^_YJY^ZLX_NFNP[WQY
@HWI-EAS443:3:71:806:1383#0/1
CACGCCCTAATGATAAGACAGGCAGTTGTGGGCCAGTATA
+HWI-EAS443:3:71:806:1383#0/1
abbabaaaaa`^aaaa`baaaBBBBBBBBBBBBBBBBBB
@HWI-EAS443:3:72:406:495#0/1
CGGGCCTCGCTAAATGACAAACATTC CAATGGAACCATT
+HWI-EAS443:3:72:406:495#0/1
^`bbabbabb`ba`a`aabbaabbabbaaa[aaaa`aba
@HWI-EAS443:3:74:796:116#0/1
TGCCACTCAATTCAACCTGGGAATCAAAATCAGATTGAAA
+HWI-EAS443:3:74:796:116#0/1
[^RO_H_S`^^`^_¥VbbYV]`a[``bTa]aaa_bb__]
@HWI-EAS443:3:75:483:483#0/1
CGTGGTCAGGATATAGCGGGAGGTTTGTTCAGCATCCAGA
+HWI-EAS443:3:75:483:483#0/1
abbb`bababbbabbbZ_H_bb_a`a^babaaU__`
@HWI-EAS443:3:80:1071:1990#0/1
CGCCCCGCTACTAACAGGGCAGAGAGGAATTGCCCGCT
+HWI-EAS443:3:80:1071:1990#0/1
aabb`abbaabaaba`baaba``babbaaba`a^a`_a
@HWI-EAS443:3:80:30:126#0/1
GTAAATGGCAACTCAGCACCGTCTGGCCAAGAACAACCCG
+HWI-EAS443:3:80:30:126#0/1
a¥aaXZ``_a`]¥`__a¥SXGVP[^SW¥Y]BBBBBBBB
@HWI-EAS443:3:82:1229:1958#0/1
GGTTGAAAGACACCCACGGTCGATTCGAGCCATGGCAGTG
+HWI-EAS443:3:82:1229:1958#0/1
aa]bbaaabbU_aa`_VUYFJY^]TYZ]aaZWV_GZX`HD
@HWI-EAS443:3:85:1334:1587#0/1
GCAGGGATAACTGGCATGGCTCGGATCGACCGTGGGTGTT

@HWI-EAS443:3:18:111:1298#0/1
CCGCTAATTTACGGAAACCACTGACTGTCCAGCAGGATA
+HWI-EAS443:3:18:111:1298#0/1
aXQ_NQYVZR¥[]X¥UY[¥UX]NR[BBBBBBBBBBBBBBB
@HWI-EAS443:3:19:1569:1057#0/1
TGGGGAAGTTCCCTCTCCATACTCAAGATTTGAGTCA
+HWI-EAS443:3:19:1569:1057#0/1
``[FW_Zaa`]^Z¥a`]]`aaQ^^`a`^Q^_```a_`]-`
@HWI-EAS443:3:21:1010:1567#0/1
TTGGAATTTCTGGCCAGACAATGGGGCAGTGGCTGGGGG
+HWI-EAS443:3:21:1010:1567#0/1
_XU_VU_aX¥a[QX^UVWUYR[]¥Xa^^[QBBBBBBBBBBB
@HWI-EAS443:3:23:1267:235#0/1
GCCCCGCTAATTTACGGAAACCACTGACTGTCCAGCCGCA
+HWI-EAS443:3:23:1267:235#0/1
`ab_]Y_a`__a`aW`]_R_¥^¥SY]¥PBBBBBBBBBBBBB
@HWI-EAS443:3:23:922:435#0/1
GCGACCCAAAGAGAACAATCTGGACTAGCGGGAGAAGC
+HWI-EAS443:3:23:922:435#0/1
X`b`^`_ab``abaaaY^`]aa[```aa_abaY``aUFWFTU
@HWI-EAS443:3:26:1268:1545#0/1
AGCCCATCCACTAACAGGGCAGAGAGGAATTGCCGGCT
+HWI-EAS443:3:26:1268:1545#0/1
`R]G^AT`WYW`a_WOVZY[¥UOWPKLOU`QPαMOFNS[
@HWI-EAS443:3:27:305:1192#0/1
CGGGGCTCCCGCTAGTCCAGATTGTGTTCTCTTTGGGTCG
+HWI-EAS443:3:27:305:1192#0/1
aa]]¥a_aaa_`YQUW_XUVM[[PU¥U¥¥YTVWUMWSPUV
@HWI-EAS443:3:30:406:1405#0/1
TCCCTTAGACGATACTGGACCACAACCTGCCTGTCTTATCA
+HWI-EAS443:3:30:406:1405#0/1
W__HZa_VX^_QZ`a[PV_¥b`]X]bZKaWYOZa^]BBBB
@HWI-EAS443:3:32:1065:808#0/1
CAAGAAACGGTTTTGAGATGATTTGGGATCCGAACGTATG
+HWI-EAS443:3:32:1065:808#0/1
ababbbaabb_baaa_a^a`_]_`[```__^a^`_aX__`
@HWI-EAS443:3:32:451:156#0/1
TATCAAGAGTTGGAGAAACAATATATTGAGAACACACGAG
+HWI-EAS443:3:32:451:156#0/1
aaa^`a_baaa`aaaYaa`_____a```Z`____`^G[[`
@HWI-EAS443:3:36:235:1271#0/1
GTCGCTTGGTCAGCAAGTGCTTGTGCATGATGGCATCCATT
+HWI-EAS443:3:36:235:1271#0/1
]aa_ba_QS^b_Zb[Y[DXZX]PT`[^R¥[[¥[FS`IV`[
@HWI-EAS443:3:36:468:431#0/1
GTCCCAGTCCATCCGTTCGGATCCCAAATCATCTCACAAC
+HWI-EAS443:3:36:468:431#0/1
a`aba`_baba`aa_^^`^^_`a`U]Y¥]__^_XFUX]
@HWI-EAS443:3:36:843:363#0/1
CGGAGACAATCCACGCCCTAATGATAAGACAGGCAGGTGT

+HWI-EAS443:3:36:843:363#0/1
aababab__abbaba`aa`a` `[aaa_`]`_^BBBBBBBB
@HWI-EAS443:3:43:1348:702#0/1
CAATTGGAATTTCTGGCCAGACAATGGGGCAGTGGGTGG
+HWI-EAS443:3:43:1348:702#0/1
_^`abbbaaaa[a^G[abMTab`aaY`WJ¥NV[NS`LLbR
@HWI-EAS443:3:43:1474:1347#0/1
AAGCGTCATTACTTATGAAAACAACACTTGGGTAAACCAG
+HWI-EAS443:3:43:1474:1347#0/1
aaaab`ababa`b`_a`a`a`^aZU`^`^`^YW`__]W__
@HWI-EAS443:3:44:190:499#0/1
CGCTCTGTTAGTGGATGGGCTATATACAGTAAAGACAACA
+HWI-EAS443:3:44:190:499#0/1
_baa_a[`a_ba_aaaa_b[_[_YT¥H`S¥a]_[Q[`N[
@HWI-EAS443:3:48:1542:188#0/1
CTGGCATGGCTCGAATCGACCGTGGGTGTCTTTCAAACAG
+HWI-EAS443:3:48:1542:188#0/1
abbaaabababab_X]_XRYVNXYL[_`_BBBBBBBBBBBBBB
@HWI-EAS443:3:48:695:1390#0/1
GTTCCCTCTCCATACAACACTCAAGATTTGAGTCAGTCACTT
+HWI-EAS443:3:48:695:1390#0/1
aaaT¥]`ZPT]`][`¥¥[VOT_dWZW^X¥^GZ_¥V¥SYPR
@HWI-EAS443:3:49:1243:1851#0/1
GCAGGGATAACTGGCATGGCTCGAATCGACCGTGGGGGGG
+HWI-EAS443:3:49:1243:1851#0/1
aaabba_abba__a]a`aab`[XDxVNzHGsof[]aBBBB
@HWI-EAS443:3:49:707:1413#0/1
CAACTGCCTGTCTTATCATTAGGGCGTGGATTGTCTACGA
+HWI-EAS443:3:49:707:1413#0/1
aTX``_]`^`RXOX_b`R]SYV]TDQ`Ya]U`O_KKNF`]B
@HWI-EAS443:3:49:830:1643#0/1
CATCAATTGGCTAACAATTGGAATTTCTGGCCAGAAAAT
+HWI-EAS443:3:49:830:1643#0/1
aa[YaaYYab_aaaU^aaa`¥^_a^]U`_Y_]_]_PFZU_
@HWI-EAS443:3:50:1107:1726#0/1
AAACCAGACATATGTTAACATCAGCAACACCAACTTTGCT
+HWI-EAS443:3:50:1107:1726#0/1
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_aabaa`_bbaaaaba_`aa__a`a]`^`a`a`a`UWa`a[
@HWI-EAS443:3:64:1717:64#0/1
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+HWI-EAS443:3:64:1717:64#0/1
aaaIab]__a^aBBBBBBBBBBBBBBBBBBBBBBBBBBBBBB
@HWI-EAS443:3:64:201:741#0/1
AAACCAGACATATGTTAACATCAGCAACACCAACTTTGCT
+HWI-EAS443:3:64:201:741#0/1
¥^^¥_]UZaZ^aa__`][`Z]_a`a`aa``]QVY_^__^Y

@HWI-EAS443:3:67:1486:472#0/1
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+HWI-EAS443:3:67:1486:472#0/1
¥Z_V_ZS[`Y[`YOTWZOYW_HR_¥X¥Z]XY`YYa_¥TVU
@HWI-EAS443:3:69:1518:391#0/1
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+HWI-EAS443:3:69:1518:391#0/1
^_aa`^^T]^¥^baa]]_ZaYLJWVDXWLFofZ`_BBBB
@HWI-EAS443:3:73:465:460#0/1
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+HWI-EAS443:3:73:465:460#0/1
ab`bbabaaaaaa^aab_`¥a`a`V_a]a``____`[a_]
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+HWI-EAS443:3:75:276:211#0/1
abab_]aaab^a_¥`a`^`^^`¥[`[S]BBBBBBBBBB
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+HWI-EAS443:3:79:726:870#0/1
_a_F_S¥W__`_Y`a`_ZY¥a^Z]U]___a_^W^^]^_XX
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+HWI-EAS443:3:81:1278:1162#0/1
aa[_^_Xa`a_a`aaaaaa_`Y`_`_`^_H_`__[^_
@HWI-EAS443:3:83:1191:1492#0/1
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+HWI-EAS443:3:83:1191:1492#0/1
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@HWI-EAS443:3:83:989:1037#0/1
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+HWI-EAS443:3:83:989:1037#0/1
aaa_a`a_^aa`]¥`^_aY]`]BBBBBBBBBBBBBBBBBB
@HWI-EAS443:3:85:828:1925#0/1
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+HWI-EAS443:3:85:828:1925#0/1
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+HWI-EAS443:3:87:855:1935#0/1  
aaaaa`a`a\_U\_`aaa\_a`baa`a`^^YY[^`]¥\_]`  
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+HWI-EAS443:3:88:410:184#0/1  
ab```\_aba\_aa\_a^aW\_]HRZT^US¥¥[T\_¥BBBBBBB  
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+HWI-EAS443:3:89:494:1715#0/1  
`\_\_Z\_^a\_\_b`]Y¥U\_X[[XUa¥ZUa\_[NZ¥][YaVGTZV  
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+HWI-EAS443:3:90:378:153#0/1  
aaTQ^]aLYa¥^0QYL[^¥YaT\_X¥]]MPWTTT^^[TTUX  
@HWI-EAS443:3:90:957:1621#0/1  
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+HWI-EAS443:3:90:957:1621#0/1  
`XQG^R`[[¥[^¥\_\_`a`R\_R^\_\_Za`a`\_^ZXYQXDMSD  
@HWI-EAS443:3:91:1135:1333#0/1  
AAACCAGACATATGTTAACATCAGCAACACCAACTTTGCT  
+HWI-EAS443:3:91:1135:1333#0/1  
aa`\_a`\_aa\_\_\_]aaa`a`a`a`a`a]aW`\_V`\_`]]\_  
@HWI-EAS443:3:91:325:1133#0/1  
GCTCCTGTCTTTAATGGTTCCATTGGAATGTTTGCCTTT  
+HWI-EAS443:3:91:325:1133#0/1  
a`[^PPUYRX`TX¥`YN¥\_SY¥RZVOVTXVVYXFLFMYT  
@HWI-EAS443:3:93:587:1181#0/1  
AAACCAGACATATGTTAACATCAGCAACACCAACTTTGCT  
+HWI-EAS443:3:93:587:1181#0/1  
¥^bbbaaabaa\_a^aaa^aaaaabaaZ`a^aaaa[a\_`aa  
@HWI-EAS443:3:95:462:81#0/1  
GGGATAACTGGCATGGCTCGAATCGACCGTGGGTGTGTTT  
+HWI-EAS443:3:95:462:81#0/1  
aaa¥\_\_\_¥`\_`TY[\_\_\_[^VRMRKHVNMP[V¥¥¥HUFFQUU  
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+HWI-EAS443:3:95:87:559#0/1  
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+HWI-EAS443:3:99:1373:1225#0/1  
a[]a[a`^b[\_\_\_ba`baba\_\_\_aXP]\_Za\_^`^Va¥\_¥Za  
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+HWI-EAS443:3:99:370:26#0/1  
a]¥F^`bZ\_\_baba\_aa`a]¥]`aa\_\_U`\_a]`\_a`Z`a  
@HWI-EAS443:3:24:1286:1527#0/1  
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+HWI-EAS443:3:24:1286:1527#0/1  
Z¥`¥ab\_a`^b]bbbabbbZDR\_bbaZ`b\_bbbbb^IYaa  
@HWI-EAS443:3:36:1424:1031#0/1  
CGGGTGTCTTTCANCCAGAATCTGGAATATCAGATAGGAT  
+HWI-EAS443:3:36:1424:1031#0/1  
abbb^ababbba]D^bbbabbabbba`abbbaa\_aaaa^^  
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TGCCACTNAATTCAACTTGGGAATCAAAATCAGATTGAAA  
+HWI-EAS443:3:37:1694:454#0/1  
aa^U^a^D]baaa¥\_aab`\_`\_`¥bY\_aXb\_^\_a`aaa\_  
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CGGGCTCCTGTCTTTAATGGTTCCATTGGAATGTTNGTCA  
+HWI-EAS443:3:86:570:705#0/1  
¥`]aW[`b^WU]aaaabaaaTX^¥¥\_Ta`]U`\_`TWFDP][

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+HWI-EAS443:3:100:1168:1503#0/1  
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+HWI-EAS443:3:100:1294:1047#0/1  
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+HWI-EAS443:3:100:143:2012#0/1  
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+HWI-EAS443:3:100:386:1917#0/1  
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+HWI-EAS443:3:100:556:261#0/1  
aaaa\_`\_a`\_]\_]^a¥^Y\_]\_]\_`\_a^U\_]V]¥W][\_\_X  
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+HWI-EAS443:3:100:822:1555#0/1  
a`a`\_`\_]a\_`aUa`a]ab^a\_\_a^aGG][V¥\_SGZBBB  
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+HWI-EAS443:3:10:1019:1029#0/1  
a\_aJ^^`Y]XZ]b\_a^\_\_XOY[[OS[OURG¥JRU[Y^YXX  
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+HWI-EAS443:3:10:1147:2041#0/1  
Y\_b`T`abab^ba]]]^`\_aY`aa`a``[\_Z\_[^U^`  
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AGGTCTTATACTATCCAGCCCTGTTAGTTCTGGATGCTGA  
+HWI-EAS443:3:10:1765:183#0/1  
\_]\_¥Yaa`ba`\_ab`S`aWXT¥\_\_`\_a]]R¥¥¥]QVNN[U  
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+HWI-EAS443:3:10:819:489#0/1  
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+HWI-EAS443:3:11:1697:676#0/1  
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+HWI-EAS443:3:11:698:201#0/1  
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+HWI-EAS443:3:12:1224:1293#0/1  
\_b\_a\_a¥`\_¥^a\_a`¥Z\_ba`[]`W]aUW`\_¥MY`[¥``¥  
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a`\_a]a¥a^a``]a`\_`aa`a`a^a`\_``RMX^\_Z^^\_]`  
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Q\_\_ZbTa^a`]¥¥[`Za\_YY`bb¥`Y[Naba`]`bXGYa¥  
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+HWI-EAS443:3:13:126:1702#0/1  
^a\_\_^H\_a\_Z¥¥]\_]`aab`¥¥Z\_]Ua¥Z\_aY^XF\_]aK  
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+HWI-EAS443:3:13:762:205#0/1  
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aa]PXaa^RZ¥XQF¥NF¥\_\_`RLW[^SLV\_a[Y`X]Y^UZ  
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+HWI-EAS443:3:14:1428:225#0/1  
a`\_S\_¥[\_`\_`\_]FXS¥aa`MYLXa]¥¥\_`^W¥Y¥W`UR  
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+HWI-EAS443:3:14:1683:131#0/1  
a[a^\_\_\_W`\_\_^V`\_Z]U]ZZZWWWZUXZZZXZZOZZTY  
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aa`a`ab\_a\_¥a^WQ[UX]\_XYRG¥`\_G]KPNZ^KQVOG\_  
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+HWI-EAS443:3:15:695:344#0/1  
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+HWI-EAS443:3:15:795:330#0/1  
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+HWI-EAS443:3:16:1007:1619#0/1  
a]b\_a^^¥¥]a[a`^WTG[S`NNNN^VFL\_SRY^Q\_[MV  
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+HWI-EAS443:3:17:1009:14#0/1  
abaab\_a\_P\_a`aaaa\_a`aa\_a`a\_a`¥``\_]`¥¥¥^^  
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a\_aaab`aaaaaaaa`aa```a`\_`^`aa`]````]^`^  
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+HWI-EAS443:3:17:1506:1715#0/1  
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+HWI-EAS443:3:17:1677:1761#0/1  
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+HWI-EAS443:3:18:1159:1159#0/1  
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+HWI-EAS443:3:18:1461:1441#0/1  
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+HWI-EAS443:3:18:1637:1309#0/1  
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+HWI-EAS443:3:18:867:734#0/1  
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+HWI-EAS443:3:1:143:841#0/1  
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+HWI-EAS443:3:1:480:128#0/1  
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+HWI-EAS443:3:20:1063:1551#0/1  
aa¥^V¥]T\_ba`\_\_\_V^WZaZM]aa^YURYZa\_^a`[Y]a  
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+HWI-EAS443:3:21:1047:688#0/1  
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a\_a\_aa`a``\_aaY\_¥^`^\_^[]W[\_^^[]]\_`[\_WY\_^Z  
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+HWI-EAS443:3:21:1507:820#0/1  
aaa[\_`a\_aaba\_``\_a]\_Y[[Z^\_]`\_a^aa¥[^]\_\_`  
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CTGCCTGTCTTATCATCAGGGCGTGGATTGTCTCCGAAAA  
+HWI-EAS443:3:21:429:1299#0/1  
aaa^^`b^abb]a]aaaa\_\_[^^^]`\_aa\_¥\_a\_\_V`a\_  
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TAGCGGGCAATTCCTCTCTCTGCCCTGCTAGTGGATGGGC  
+HWI-EAS443:3:22:539:1649#0/1  
`baa`aabbaaab`aab]\_[]`aa`\_\_\_\_[\_aR^\_`^¥^¥P  
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TTGGAATGTTTGTCAATTTAGCAAGGCCCTTGAGCCAAGA  
+HWI-EAS443:3:22:578:914#0/1  
aaaa¥aaa\_aa`\_aaaa\_a]\_``\_^^]`^\_\_^^`W\_`\_]`  
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+HWI-EAS443:3:22:784:475#0/1  
aa\_J]`a[]]aaP]¥FX[^a]\_[]\_a``aM^\_X¥RN\_`[S  
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+HWI-EAS443:3:23:1463:410#0/1  
¥TX][U]¥]GZ^`Y^WT`UIPX`ab^U```¥NON]a^`S  
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@HWI-EAS443:3:24:1295:1544#0/1  
CAAAATCAGATTGAAACACGCAATCAAAGCGTCATTACTT  
+HWI-EAS443:3:24:1295:1544#0/1  
a^`[L¥]abb¥^Z^\_aV\_`^a\_`¥`^^¥UMX\_a``X]FX^  
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+HWI-EAS443:3:24:814:383#0/1  
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+HWI-EAS443:3:25:1112:1585#0/1  
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+HWI-EAS443:3:25:1301:428#0/1  
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+HWI-EAS443:3:25:512:422#0/1  
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+HWI-EAS443:3:25:917:529#0/1  
a^abaab`bb`\_`bab`]¥^ababbab]`abaabaa\_bb  
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\_¥Zaa]\_`[\_`US^^Xaa[¥YNZVa\_]HT]T^T^UP`]BB  
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GACCACAACACTGCCTGTCTTATCATTAGGTCGTGGATTGTC  
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+HWI-EAS443:3:26:929:617#0/1  
abaaVa^bbaYa^aaaaY`b`a\_\_^[[\_\_a\_\_[aa^`\_¥  
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GTGTGCAGGGATAACTGGCATGGCTCCAATCGACCGTGGG  
+HWI-EAS443:3:27:1348:777#0/1  
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+HWI-EAS443:3:27:294:1872#0/1  
`ba`Xaaaaa`]G\_\_`\_aSaU`\_\_`^QOUa`0^`¥XXa\_^  
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+HWI-EAS443:3:27:691:1392#0/1  
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@HWI-EAS443:3:28:1181:1332#0/1  
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+HWI-EAS443:3:28:1181:1332#0/1  
¥baX`^T\_aaa\_VZ^¥baa^Yababb\_Waaaaaa`ba]  
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GAATAAATGAGTGGTCAGGATATAGCGGGAGGTTTGTTC  
+HWI-EAS443:3:28:1361:1924#0/1  
abaabaab\_abRbaY\_^aa\_[[aa[\_a``\_H]a`SOSZU  
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+HWI-EAS443:3:28:437:370#0/1  
a^b¥bb`bbabKb¥Rab`Nb\_Z`abaSababSabU\_ba\_¥  
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+HWI-EAS443:3:28:607:1247#0/1  
``a\_`\_`¥^``ab`[aYZ]b^bb`\_bba\_baa`aa\_\_a  
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+HWI-EAS443:3:29:1237:433#0/1  
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@HWI-EAS443:3:29:1734:615#0/1  
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+HWI-EAS443:3:29:1734:615#0/1  
a\_aY]a]^Z^`]WW]^`[^V¥T]\_\_K\_G^¥V^X\_]¥R^\_B  
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+HWI-EAS443:3:29:677:1177#0/1  
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+HWI-EAS443:3:2:167:1902#0/1  
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+HWI-EAS443:3:2:895:1432#0/1  
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+HWI-EAS443:3:30:1359:489#0/1  
aaYaaHTY\_YWY^OT][][\_[V¥\_¥`\_a¥]^a\_QTT\_[WY  
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+HWI-EAS443:3:30:485:119#0/1  
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+HWI-EAS443:3:30:866:1381#0/1  
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+HWI-EAS443:3:31:1695:70#0/1  
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+HWI-EAS443:3:31:36:1823#0/1  
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+HWI-EAS443:3:31:663:1945#0/1  
X¥`¥\_`¥¥¥W\_`a\_W¥¥M[^¥¥[LSZ^XJN^^BBBBBBB  
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CAAGAAACAGTTTTGAGATGATTTGGGATCCGAACGGATG  
+HWI-EAS443:3:32:1120:1285#0/1  
a\_aa\_XY[LY\_`a^`¥\_aaa`aaa``a`\_\_a`\_`a\_``]`  
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a`aaba¥¥``VU[S00]¥0]`T¥PZZVG¥PTUZYUQTSWN  
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aaab¥a`bbaaaaa\_aab\_aa```aa`aa\_`aa\_^\_\_X\_^  
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+HWI-EAS443:3:32:653:96#0/1  
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aa^^\_`aa^`aaaaa]`\_\_\_\_\_PQ\_``^][`¥\_\_^¥^]V^

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¥^`ba`YT¥a]VMS\_Y`^¥]]Z\_]YUFYSQUSLWYTRSPR  
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+HWI-EAS443:3:33:1614:1286#0/1  
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+HWI-EAS443:3:33:1684:734#0/1  
^`baU`¥¥¥]\_^ab]ab^YH]ZNO[¥YXT^\_UVYTQSS¥\_  
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+HWI-EAS443:3:34:1768:1309#0/1  
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aa`bbabbaaaa`SZZ¥]`a^`\_a\_]¥\_\_Z\_S\_[^QYBBB  
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]R¥Z\_ZYIOYa]a`a\_¥\_\_\_`aZ]T[\_[]YZ¥Z\_]Y[LF  
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+HWI-EAS443:3:35:1677:697#0/1  
\_¥Z]^T¥¥XaZaX\_a`¥Z¥\_U[]\_`XG[a`^]]\_a\_`ST  
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+HWI-EAS443:3:35:503:958#0/1  
VU[V[\_V\_bW^V```bbaa\_WS[]WZ¥\_¥KWaaPRVS¥\_V  
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+HWI-EAS443:3:36:1299:1486#0/1  
^bb`bbbaababSaaa`aa`aaaZ```^aaa\_\_`a^a]\_  
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a¥]baab¥^baY[]^`aaa]a`aa^a\_`a\_a]`^aW]^VY  
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+HWI-EAS443:3:36:1591:1463#0/1  
aa`aab\_N^Xba\_\_a`¥X\_``\_¥]]\_U¥]V[W]X`\_]`\_\_  
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+HWI-EAS443:3:37:1108:553#0/1  
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+HWI-EAS443:3:37:1304:1523#0/1  
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+HWI-EAS443:3:37:819:1768#0/1  
aaaa\_b`aaaa`\_aa^aa`aaaa\_¥aH`\_aa`\_a`\_a  
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+HWI-EAS443:3:37:934:1575#0/1  
Ya`\_]\_aa`aK\_[W^Y\_^V]^aaa`a`WRDP\_a\_aa¥L]Q  
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+HWI-EAS443:3:38:50:1914#0/1  
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+HWI-EAS443:3:38:892:1800#0/1  
`\_]\_\_¥]a\_bW`a\_b[bba\_[a¥`a`\_a¥HTGJQN[aO\_W  
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+HWI-EAS443:3:39:1748:266#0/1  
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+HWI-EAS443:3:3:1503:1240#0/1  
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ACTTATGAAAACAACACTTGGGTAAACCAGACATATGTTA  
+HWI-EAS443:3:40:1788:712#0/1  
aabbabbaaaa`aa`a`a`a`\_`^a`aaa^a\_aaaaaa\_``  
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TGCAGTGGGATTTTCGGAGACAATCCATGCCCTAATGATA  
+HWI-EAS443:3:40:258:395#0/1  
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+HWI-EAS443:3:40:271:211#0/1  
a¥\_N¥`\_Y^U\_¥UU¥\_T\_XPVW¥Y¥WYWYVNWWSYTVVWVW  
@HWI-EAS443:3:40:328:1363#0/1  
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+HWI-EAS443:3:40:328:1363#0/1  
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+HWI-EAS443:3:40:62:65#0/1  
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aaa`¥a¥XX^a\_]abbbbbba`ab`aHaT\_Ya`QVJM]Y`  
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+HWI-EAS443:3:42:103:304#0/1  
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+HWI-EAS443:3:42:1050:170#0/1  
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+HWI-EAS443:3:42:369:1939#0/1  
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+HWI-EAS443:3:42:654:836#0/1  
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+HWI-EAS443:3:42:775:1053#0/1  
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a\_`\_\_aa¥\_a^aaT\_`\_QQZT¥\_V\_]WR^WRU]WSSSZ[  
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+HWI-EAS443:3:43:187:1062#0/1  
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+HWI-EAS443:3:43:773:583#0/1  
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+HWI-EAS443:3:44:185:1403#0/1  
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+HWI-EAS443:3:44:355:1859#0/1  
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+HWI-EAS443:3:44:996:783#0/1  
aa`a`a`a`a`a`a`\_`VVV^TSZUU[ TGya^HZFLU\_[]  
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+HWI-EAS443:3:45:1452:1430#0/1  
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+HWI-EAS443:3:46:1092:927#0/1  
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+HWI-EAS443:3:46:520:125#0/1  
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+HWI-EAS443:3:47:497:1454#0/1  
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+HWI-EAS443:3:49:1249:1389#0/1  
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+HWI-EAS443:3:49:1308:587#0/1  
Za\_a^^baba\_]¥\_¥[b]\_a¥RL¥UPMYWU]Q\_\_\_RXHNU  
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+HWI-EAS443:3:49:372:606#0/1  
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+HWI-EAS443:3:4:1214:1751#0/1  
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+HWI-EAS443:3:4:1774:342#0/1  
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+HWI-EAS443:3:4:303:35#0/1  
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+HWI-EAS443:3:4:700:802#0/1  
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+HWI-EAS443:3:4:828:1402#0/1  
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+HWI-EAS443:3:51:1010:426#0/1  
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+HWI-EAS443:3:51:1277:1411#0/1  
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abb¥\_ab^`b`baa]`aaa[a`aa\_[aa`aa\_aaaa`ab  
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+HWI-EAS443:3:52:1167:1102#0/1  
\_[\_Z\_bbU\_Vb\_H[aW``]JXXa\_^^U]¥`]LZa]b^QUb  
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+HWI-EAS443:3:52:1216:694#0/1  
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+HWI-EAS443:3:52:1532:757#0/1  
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+HWI-EAS443:3:52:1752:1303#0/1  
a\_aa]]`\_`N^^[a]X]WZ]¥]LFIIY]]^\_N\_OS]]^^ZX  
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a`\_abaa^aa`aa`a^Y¥]]]^\_\_\_YU^`\_XX^\_]Z\_^  
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+HWI-EAS443:3:56:837:1441#0/1  
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`aa\_]¥aa\_a¥abXa`\_\_[]\_Z^ZW\_\_`WP\_a\_[\_`^¥[\_U  
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+HWI-EAS443:3:58:1210:255#0/1  
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+HWI-EAS443:3:58:1435:740#0/1  
\_PZT\_FY¥[ZZV\_aaXPZ\_\_^a]\_0`aY]]``¥aW``^\_  
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+HWI-EAS443:3:58:1563:106#0/1  
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+HWI-EAS443:3:58:857:1310#0/1  
a`aaabb\_b``^`\_\_\_a\_]QYYYYVDT\_¥ZW[RX\_OY]]`  
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+HWI-EAS443:3:59:1705:423#0/1  
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+HWI-EAS443:3:59:250:1194#0/1  
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+HWI-EAS443:3:59:252:1531#0/1  
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+HWI-EAS443:3:5:44:395#0/1  
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+HWI-EAS443:3:5:474:556#0/1  
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+HWI-EAS443:3:61:1097:781#0/1  
a\_]\_¥^\_\_XM`\_\_^\_\_a\_\_\_\_[`¥\_\_`[\_][\_U\_]SXY[[  
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+HWI-EAS443:3:62:1000:411#0/1  
a\_^\_aa¥]^`a````a`ZO\_`a]]\_¥\_Za\_¥¥WZ^aa\_^  
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+HWI-EAS443:3:62:1079:897#0/1  
a¥aaaa`aaaa^aaaa`\_`a]`Z][a`\_a```^`\_`^`\_`\_`  
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a`^Q\_`^a\_VW\_`[`a`]aaa\_a`YSSJYM``][WWR[  
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+HWI-EAS443:3:64:939:1020#0/1  
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+HWI-EAS443:3:65:365:445#0/1  
\_[aJZ0¥`¥aY`Y^[\_aa`b\_^\_¥a`W\_`¥U\_`RZ`[R^\_  
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a]]Z[DWU\_]`¥`]aaZa`^X`a`\_`^X[\_\_\_a`W¥^\_`  
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+HWI-EAS443:3:66:1045:300#0/1  
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+HWI-EAS443:3:70:710:1667#0/1  
aY\_aaa\_]`b^^`aa`\_][J^`\_\_`\_^`a`^`\_`^]`^]  
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V]VW]^aZN#\_abb\_bb`KV\_KFPaaa`a\_RTQ]XT#W]  
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aa\_^OWSTWSV^X#aa`]#`WRYZZYZ]#aW[[[Z#X  
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+HWI-EAS443:3:71:801:1095#0/1  
XR[``aSaa]a#\_aa\_RR]H[a``S\_#a[I[\_`^`^` [Wfy  
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+HWI-EAS443:3:71:875:1229#0/1  
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^aY\_P]b`[a\_]Z^Qa¥a\_``¥baaa`Za`\_Z\_]`aaa  
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+HWI-EAS443:3:72:1358:167#0/1  
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+HWI-EAS443:3:74:1210:1194#0/1  
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+HWI-EAS443:3:74:1508:1360#0/1  
a\_b\_YS^b[U^\_G\_``[b`a[abW¥S`R\_a^TH]YIQRS¥  
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+HWI-EAS443:3:75:161:558#0/1  
aV```[U^R`]ZaaU`I]\_L\_T]\_¥ZZXX`¥R^ZZ^]MY`  
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+HWI-EAS443:3:75:1723:1335#0/1  
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+HWI-EAS443:3:76:1280:1365#0/1  
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+HWI-EAS443:3:76:959:697#0/1  
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+HWI-EAS443:3:77:1282:669#0/1  
abbYb``¥ba¥V``\_¥b\_U¥PZ¥S\_a\_YFXWVZ`¥a\_[]Y  
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+HWI-EAS443:3:77:144:1487#0/1  
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a`]`a^^\_b¥`\_XV`\_^\_]`¥a\_aRa\_\_\_¥aPYPZ¥P  
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`ab\_¥N][\_``\_^WZ`\_\_^\_\_\_`¥]`\_¥[^\_W[\_[V^^^^  
@HWI-EAS443:3:78:1248:1497#0/1  
GCTCCTGTCTTTAATGGGTCCATTGGAATGTTTGTCTTT  
+HWI-EAS443:3:78:1248:1497#0/1  
aa^¥^abH[baaaa`QaW^`^\_Y]GV`\_ZT¥^aY^]U\_\_^  
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+HWI-EAS443:3:78:1257:1439#0/1  
aaaa```a¥^a`a^^Ga\_aa]\_\_]^`\_]S^\_W\_^a\_a]Q

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+HWI-EAS443:3:78:458:485#0/1  
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\_`b\_I\_bbb]a``bbbb`baab`\_\_`aa^aZ[ObXb\_^\_  
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+HWI-EAS443:3:79:383:530#0/1  
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+HWI-EAS443:3:79:69:391#0/1  
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+HWI-EAS443:3:7:527:414#0/1  
a\_a\_a`a`aaabaaaa`a`\_\_^`\_`ZaY```[^\_`^a\_  
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+HWI-EAS443:3:7:64:1474#0/1  
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+HWI-EAS443:3:7:71:1367#0/1  
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+HWI-EAS443:3:7:766:1614#0/1  
aa`Y\_[[Z^^]¥[\_G]`¥[a]\_`\_^[\_a\_`\_]`^\_\_^^][^  
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+HWI-EAS443:3:80:299:258#0/1  
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+HWI-EAS443:3:81:1406:1717#0/1  
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+HWI-EAS443:3:81:1419:1620#0/1  
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+HWI-EAS443:3:81:338:1282#0/1  
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+HWI-EAS443:3:81:782:1526#0/1  
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+HWI-EAS443:3:82:156:925#0/1  
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+HWI-EAS443:3:83:755:492#0/1  
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\_[\_X`b\_¥[\_^Xa\_¥\_`bbaaa]Yaba`aaaa^a\_T\_a

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a`I\_Ya\_[ba\_a\_`¥`aaaa`a`\_Y`]WZaaV``a\_¥]U[  
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+HWI-EAS443:3:85:1195:230#0/1  
aa^a\_\_`a\_aaaaa`a\_\_`ZRaW^\_a¥Zaa]W]`Ua]]\_a  
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+HWI-EAS443:3:85:822:1411#0/1  
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+HWI-EAS443:3:86:204:1730#0/1  
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+HWI-EAS443:3:87:1029:1732#0/1  
ab`a`Xaabb^GY`Z^a[`a\_a¥P¥aa`aa\_aa`\_T\_`Z\_  
@HWI-EAS443:3:87:298:273#0/1  
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+HWI-EAS443:3:87:298:273#0/1  
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+HWI-EAS443:3:87:940:1853#0/1  
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+HWI-EAS443:3:88:123:249#0/1  
abbb`^^aaYO\_]`aaaa[`aaa`VZ^^^WX]UYYY¥R  
@HWI-EAS443:3:88:1405:235#0/1  
GTGGTCAGGATATAGCGGGAGTTTTGTTCCAGAATCCAGAA  
+HWI-EAS443:3:88:1405:235#0/1  
^X`¥TY[^ [XVaNXPa\_US]I]\_VTH[JO]GSUNQWYRS  
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+HWI-EAS443:3:88:194:1393#0/1  
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+HWI-EAS443:3:89:1470:956#0/1  
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+HWI-EAS443:3:8:1017:1277#0/1  
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+HWI-EAS443:3:8:1697:206#0/1  
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+HWI-EAS443:3:8:1716:964#0/1  
a\_aa\_aaaab\_b^`abba^a^aGaa[WY\_`a`\_^G[\_\_\_`  
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+HWI-EAS443:3:8:339:219#0/1  
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+HWI-EAS443:3:8:410:244#0/1  
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+HWI-EAS443:3:8:573:1707#0/1  
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¥^^]\_Y```abaZ]DY¥abaa\_bZ`b^^]^^`\_SYa[\_W`¥  
@HWI-EAS443:3:90:1269:1842#0/1  
TGTCATGATGGCATCAATTGGCTAATAATTGGAATTTCTG  
+HWI-EAS443:3:90:1269:1842#0/1  
ab¥```[^bUWQYaXaaY]Xaa^^WKWIa^^`aa¥^NFX]F  
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+HWI-EAS443:3:90:198:1501#0/1  
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+HWI-EAS443:3:91:545:1642#0/1  
abbaaaaa¥a\_¥Ya\_aaaa\_Y\_aa`¥\_]`\_V\_\_XS¥]¥S  
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+HWI-EAS443:3:91:934:707#0/1  
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+HWI-EAS443:3:92:1182:1743#0/1  
S\_\_Y]a]\_SV¥`X^^¥a`[¥`baab]a`\_b^Z]U^TZaa  
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+HWI-EAS443:3:92:1444:143#0/1  
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+HWI-EAS443:3:92:907:996#0/1  
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+HWI-EAS443:3:93:1130:1526#0/1  
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+HWI-EAS443:3:93:1743:1097#0/1  
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+HWI-EAS443:3:93:294:139#0/1  
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+HWI-EAS443:3:93:376:566#0/1  
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+HWI-EAS443:3:93:588:103#0/1  
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+HWI-EAS443:3:94:663:1350#0/1  
]VZ`^a`a[\_]^[\_`\_¥¥ba¥UW¥H¥[ZFQYLWVN[]  
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+HWI-EAS443:3:94:751:737#0/1  
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+HWI-EAS443:3:94:910:733#0/1  
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+HWI-EAS443:3:95:395:1845#0/1  
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+HWI-EAS443:3:95:502:1574#0/1  
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+HWI-EAS443:3:95:695:208#0/1  
¥`\_`\_U`b]bb`¥Y[W`\_b`P\_ab`\_b`]`ab`S]Y`Z\_\_  
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+HWI-EAS443:3:95:976:809#0/1  
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+HWI-EAS443:3:96:1496:536#0/1  
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+HWI-EAS443:3:96:1742:1820#0/1  
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+HWI-EAS443:3:96:502:261#0/1  
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+HWI-EAS443:3:97:1218:1948#0/1  
aa\_^0a\_a`0¥`^UW]\_a\_^WX]G¥ZRDHVQP^\_BBBBBB  
@HWI-EAS443:3:97:1340:1959#0/1  
AGCGTCATTACTTATGAAAACAACACTTGGGTAAACCAGA  
+HWI-EAS443:3:97:1340:1959#0/1  
aaZ`YVaabbWaa\_aaaaa`Ua^[Y`\_¥aa`W`a`aU\_aa  
@HWI-EAS443:3:97:966:1289#0/1  
TCCGAAAATCCCACTGCTTATGTATCCTATCTGATATTCC  
+HWI-EAS443:3:97:966:1289#0/1  
^Y`aY`aZ`\_SZVaa^F[a^aTb`¥abI`Ia```JIOF[  
@HWI-EAS443:3:98:1549:1043#0/1  
GACACCCACGGTCGATTCGAGCCATGCCAGATATCCCTGC  
+HWI-EAS443:3:98:1549:1043#0/1  
aa\_aa`a``aaS¥^QFUBBBBBBBBBBBBBBBBBBBBBBBB  
@HWI-EAS443:3:98:1721:391#0/1  
TGCCTGTCTTATCATTAGGGCGTGGATTGGCTCCGAAAAT  
+HWI-EAS443:3:98:1721:391#0/1  
ab^`RW^\_]V^W\_`T^`NNU`ZF¥0[UDDKGU\_VYYBB  
@HWI-EAS443:3:98:1791:1754#0/1  
CCCTCTGATTAGTTCAACCCAGAAGGAAGTCTTATACAA  
+HWI-EAS443:3:98:1791:1754#0/1  
S[PU[]babbK[IWZ\_babUU\_Va[HZ`KVL SRXaab]B  
@HWI-EAS443:3:98:219:1728#0/1  
ATGCCGTTGAACCTTAAACACAGCCACTGCCCATTTGTCTG  
+HWI-EAS443:3:98:219:1728#0/1  
]OZ[`\_0^TMW\_]SababaaJaW^bBBBBBBBBBBBBBBB  
@HWI-EAS443:3:99:1367:240#0/1  
CCCATATCGAATCCTAATGAGCTGCCTATTGGTGAAGTT  
+HWI-EAS443:3:99:1367:240#0/1  
```abbb\_ba¥DRaabUb\_^bIab\_\_`aabaaa\_a^`\_^`  
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GGACCACAAGTGCCTGTCTTATCATTAGGGCGTGGATTGT
+HWI-EAS443:3:99:1410:365#0/1
aWH_Qa^Y_Z`_Y][b_¥[Qa_X¥`Q^`XU`GaZQ]BBB
@HWI-EAS443:3:99:245:1792#0/1
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+HWI-EAS443:3:99:245:1792#0/1
_bb_bbbbaaaabbbabb`_a`a`[aab_aa__aa^aaa
@HWI-EAS443:3:99:324:2010#0/1
CGCTAGTCCAGATTGTGTTCTCTTTGGGTGGCCCTCTGAT
+HWI-EAS443:3:99:324:2010#0/1
a_L_¥a]Kb^WY]XOG¥¥XKZXV`XQ^aMG^[W_a_Z_¥Z

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+HWI-EAS443:3:9:1278:827#0/1
a[bbYV`a^__a]abb]_V¥_M¥SV`W^V]]`a`WO^VYN
@HWI-EAS443:3:9:197:1646#0/1
CAGGATATAGCGGGAGTTTTGTTTCATCATCCAGAACTAAC
+HWI-EAS443:3:9:197:1646#0/1
aa`X`baab`Wab^^ZN_¥a[W_ZYFWZ[L^`¥Q_QY]UR
@HWI-EAS443:3:100:1352:944#0/1
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+HWI-EAS443:3:100:1352:944#0/1
V`[`a^U`b_T_a^_aaaaab[G¥¥bb_`_¥][EX^aab
@HWI-EAS443:3:100:1629:74#0/1
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+HWI-EAS443:3:100:1629:74#0/1
`aJ^aa_b¥¥aa¥a_aaaa`[]¥`_H__]_LWV]Wa^JB
@HWI-EAS443:3:10:1280:309#0/1
GCCCCAATTATCACTATGAGGAATGCTCCTGTTATCGTG
+HWI-EAS443:3:10:1280:309#0/1
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@HWI-EAS443:3:10:1451:89#0/1
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+HWI-EAS443:3:10:1451:89#0/1
aU^`VXaX`^^baSRT¥Pa`HZSQ¥HHR[L]`BBBBBBBB
@HWI-EAS443:3:11:397:110#0/1
TGCAGGGATAACTGGCATGGCTCGAATCGACCGTGGGGGG
+HWI-EAS443:3:11:397:110#0/1
abaabbbbaaaabaa^aaa_a_^`S_S¥_RGW_H¥aBBBB
@HWI-EAS443:3:19:1022:1723#0/1
CTTGCTTTATTGAGAAGTTATTGTCTGTCCCAGTCCAACC
+HWI-EAS443:3:19:1022:1723#0/1
_`abab`b`[a^`a¥a^WbZab`_aaBBBBBBBBBBBBBB
@HWI-EAS443:3:20:1331:793#0/1
GTAGGAATAAATGAGTGGTCAGGATATAGCGGGAGTTGAC
+HWI-EAS443:3:20:1331:793#0/1
a_`a```¥_a_a`ZaZaa¥_]a_]YZ__^__a_WZBBBBBB
@HWI-EAS443:3:22:539:974#0/1
CGGAGACAATCCACGCCCTAATGATAAGACAGGCAGTGGT
+HWI-EAS443:3:22:539:974#0/1
aaa[]a`M]``X¥¥_Z`]¥¥^__¥^[X¥Z^BBBBBBBBBB
@HWI-EAS443:3:23:1476:619#0/1
GGGATTTTCGGAGACAATCCACGCCCTAATGATAAGANAG
+HWI-EAS443:3:23:1476:619#0/1
^a`b[`a`ab`^[[`a[]^a`bX^aW^abbaaaaHDYa
@HWI-EAS443:3:23:756:699#0/1
CAGACATATGTTAACATCAGCAACACCAACTTTGCTGGTG
+HWI-EAS443:3:23:756:699#0/1
[]ZSWW__aUFW`aXaR_Z]]]_YSYU]0][VW_¥PZLBB
@HWI-EAS443:3:23:81:531#0/1
CAGCAAAGTTGGTGTGCTGATGTTAACATATGTCTGGTT

+HWI-EAS443:3:23:81:531#0/1
a`¥_]Xa¥Jb`ZX`¥`a`_YT]R[¥_Y_]]^]X0^X]L_
@HWI-EAS443:3:24:636:651#0/1
CACCCACGGTTCGATTCGAGCCATGCCAGTTATCCCTGAGA
+HWI-EAS443:3:24:636:651#0/1
]bbbab_b_QZV00YW)`a` `[]` ` `][DYZROY¥WaU]S
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+HWI-EAS443:3:24:996:1660#0/1
]T^aaaaaba]aaaaa^a`Sb_PUL^^[` ` ^_U¥_¥
@HWI-EAS443:3:26:532:732#0/1
AACCAGACATATGTTAACATCAGCAACACCAACTTTGCTG
+HWI-EAS443:3:26:532:732#0/1
WU___b_^_WMa]X_`a` ` `ZWZ]XHL_`a` __]XPZX¥S
@HWI-EAS443:3:27:703:1503#0/1
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+HWI-EAS443:3:27:703:1503#0/1
aaa`aa`aaPDJ]]_`Z^M^[WZ`_ZZ_TUUYQWU¥]OU]
@HWI-EAS443:3:28:1401:1604#0/1
GTGCAGGGATAACTGGCATGGCTCGAATCGACCGTGGCGG
+HWI-EAS443:3:28:1401:1604#0/1
]ababa` ` `bababa^aab_a`a][Y]ZSTXUWXN¥ZBBB
@HWI-EAS443:3:28:690:314#0/1
TGCAGGGATAACTGGCATGGCTCGAATCGACCGTGGGGGT
+HWI-EAS443:3:28:690:314#0/1
aa]abaaaaab_aa`aaa` ` `a`YZXHNVR LXZKTaXS_B
@HWI-EAS443:3:30:1639:1101#0/1
GCGACTGACTCAAATCTTGAGTTGTATGGAGAGGGAAATT
+HWI-EAS443:3:30:1639:1101#0/1
`]ZMF[_OP_TQ_¥OJY¥¥WaQPZTN^YRBBBBBBBBBBB
@HWI-EAS443:3:33:1233:1390#0/1
GACCTGTCTATTGGTGAAGTTCCCTCTCCATACAACCTCA
+HWI-EAS443:3:33:1233:1390#0/1
¥TH[¥VQ¥YU]YYOZRZTXLZ^[YZY]X^ZVRVVM^P^^
@HWI-EAS443:3:34:243:635#0/1
GTCTTCCGTGAAATTAGCGGGCAATTCCTCTCTCTGCCCT
+HWI-EAS443:3:34:243:635#0/1
VZ_` `b_¥___TZ_a` `]W^`a_]` ` ` `^^]` ` ¥X[Y]
@HWI-EAS443:3:36:1635:1387#0/1
ACCCAGTCCATCCGTTCCGATCCCAAATCATCTCAAAAAC
+HWI-EAS443:3:36:1635:1387#0/1
aaaaa__baa_^ZRH¥`]]STYW[RWUPX¥SNFP[U_`J]
@HWI-EAS443:3:36:469:1679#0/1
GTCTTATACAATCCAGCCCTGTTAGTTCTGGATGCTGCAC
+HWI-EAS443:3:36:469:1679#0/1
_¥b`M[U_ba[`a`]]_aa^XUW^TZ]V¥VX_[SY`RF¥`
@HWI-EAS443:3:38:511:1137#0/1
CACGCCACTCAATTCAACTTGGGAATCAAAATCAGATTGA
+HWI-EAS443:3:38:511:1137#0/1
a_a_b_aZaba_aaa`a_aa_`_a`aaaa^_¥]` ` _____

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+HWI-EAS443:3:39:151:522#0/1
`IYW¥W]GTxaaa¥^¥`V^`_WQJOBbbbbbbbbbb
@HWI-EAS443:3:3:1399:2032#0/1
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+HWI-EAS443:3:3:1399:2032#0/1
a_aaa_]W¥`aZY`___a___Z]^S_^^NX^_ZSZZBBB
@HWI-EAS443:3:3:350:1821#0/1
ATCGGTTCCAAGGGGATGTGTTTGCATAAGGGAECTAT
+HWI-EAS443:3:3:350:1821#0/1
aaaa`U]T_R__`WXY¥ZIWWFFUKTX¥BBBBBBBBBBB
@HWI-EAS443:3:40:976:370#0/1
GGCGTTTGGATAGGGAGAACTAAAAGCATTAGTTCAAGAA
+HWI-EAS443:3:40:976:370#0/1
a_g¥R_]aYW[N[^_Y_^]RXPZP¥YXQJQX[XSSMSWXS
@HWI-EAS443:3:43:347:338#0/1
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+HWI-EAS443:3:43:347:338#0/1
abbbbaabaaaa]aa`_aa]MQ^QOZPZNDX`BBBBBB
@HWI-EAS443:3:44:1758:346#0/1
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+HWI-EAS443:3:44:1758:346#0/1
Z_____]`baabaa`¥Z]a``[UZ¥RBBBBBBBBBBB
@HWI-EAS443:3:44:885:1068#0/1
GGGGCTCCTGTCTTTAATGGTTCCATTGGAATGTTTGTTA
+HWI-EAS443:3:44:885:1068#0/1
ab`_`aaa`Y^aaaa`aM]¥_]^V`aYaY]^`_aaI¥0]
@HWI-EAS443:3:45:1477:1305#0/1
AGCAGGGAGAACTAAAAGCATTAGTTCAAGAAACGGTTTT
+HWI-EAS443:3:45:1477:1305#0/1
ab`^^^aabba_a_[aaba`aaa]R]_`_a]_a`^Waa`
@HWI-EAS443:3:46:1206:1430#0/1
AACCAGACATATGTTAACATCAGCAACACCAACTTTGCTG
+HWI-EAS443:3:46:1206:1430#0/1
a]SNZZ_]`Z¥VY¥[UYT[RQYWR]^ [RZXZT[VYW]Z_] [Z
@HWI-EAS443:3:47:1356:712#0/1
GCGGGCAATTCCTCTCTCTGCCCTGTTAGTGGATGGGATA
+HWI-EAS443:3:47:1356:712#0/1
aa^`aaaab`a_a_a¥a_^a[^]_a__Va]a`X`_]`GWY
@HWI-EAS443:3:48:1775:342#0/1
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+HWI-EAS443:3:48:1775:342#0/1
ab`aabaaaa]aa`aaaaa_`aYJ[VS_LLWYGS^`HYF
@HWI-EAS443:3:48:39:185#0/1
GATAACAGGAGCATTCCATAGTGATAATTAGGGGCTTT
+HWI-EAS443:3:48:39:185#0/1
`_aab^¥ba`b_aaa¥V_`_`a_a¥a`___a`_aa_[¥_`_`
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TGTCTGTCCCAGTCCATCCGTTCCGATCCCAAATCATATC

+HWI-EAS443:3:4:1414:819#0/1
^¥_0¥a¥RY]abTVV[QPPaW^Q]aX_`^VSP¥ZFZWFGR
@HWI-EAS443:3:50:1450:1070#0/1
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+HWI-EAS443:3:50:1450:1070#0/1
a``abaa`baaabbb`aaa_``a^G_^QRQGXWDRaBBBB
@HWI-EAS443:3:50:731:1305#0/1
CTAACTGTCCAGCAGCAAAGTTGGTGTGCTGATGTTAAC
+HWI-EAS443:3:50:731:1305#0/1
a]aZ]ab`bbaaa`aa_INb__aa^`_a^¥_TYa_`Z__I
@HWI-EAS443:3:50:783:1264#0/1
AACCAGACATATGTTAACATCAGCAACACCAACTTTGCTG
+HWI-EAS443:3:50:783:1264#0/1
a`Sbb_SbabbaUaa`_``]aa_aa`__X`a^_a^NZ`a
@HWI-EAS443:3:50:893:576#0/1
TGCAGGGATAACTGGCATGGCTCGAATCGACCGTGGGGGG
+HWI-EAS443:3:50:893:576#0/1
ab`abbbabab`bbabbb`aaa_ZR]¥UYTFO_GVa`GXE
@HWI-EAS443:3:51:1114:1133#0/1
AGCTCCCTCTCCATACAACCTCAAGATTTGAGTCAGTCGCT
+HWI-EAS443:3:51:1114:1133#0/1
XabbUba__a^Y`]aUa`abUaa]a`bb`ab_`aa`^`[P
@HWI-EAS443:3:51:298:652#0/1
ACNATATCTTGCTTTATTGAGAAGTTATTGTCTGTCCCAG
+HWI-EAS443:3:51:298:652#0/1
a[DY`aa`aaaaaaaaa^`_`a^aaa_^^^`[JQQXLB
@HWI-EAS443:3:54:1714:783#0/1
ACCAGACATATGTTAACATCAGCAACACCAACTTTGCTGT
+HWI-EAS443:3:54:1714:783#0/1
`XW_]V`a]_`T_¥`a`a____]`_a]a_]__^`^]a[]QF
@HWI-EAS443:3:54:863:764#0/1
CACGCCACTCAATTCAACTTGGGAATCAAAATCAGATTGA
+HWI-EAS443:3:54:863:764#0/1
ab`b`ab`bababb_]_`bbbabab```abaaabb`bbba
@HWI-EAS443:3:55:692:1224#0/1
CAGCAAAGTTGGTGTGCTGATGTTAACATATGTCTGGTT
+HWI-EAS443:3:55:692:1224#0/1
`^U`X__`¥aa^QX_a`[`_[XOW`_XS^YX`[]X`^WZa
@HWI-EAS443:3:56:665:462#0/1
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+HWI-EAS443:3:56:665:462#0/1
aaa`bbb`babbaa`b_b^^aa][SZOF^VUYPHUa[YZB
@HWI-EAS443:3:57:330:1102#0/1
GAAAGACACCCACGGTCGATTCGAGCCATGCCAGTTACCA
+HWI-EAS443:3:57:330:1102#0/1
abbba`babaabaaaZ`a[QYZR¥[YZ]^^]^[[U^aXTB
@HWI-EAS443:3:59:429:1894#0/1
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+HWI-EAS443:3:59:429:1894#0/1
a`I]TH_b^`XaS`aab_aRW`JaaU]HQa[Z`__WX¥^R

@HWI-EAS443:3:61:910:74#0/1
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+HWI-EAS443:3:61:910:74#0/1
ab_W^b_^_X¥a]TXTVZXXXZBBBBBBBBBBBBBB
@HWI-EAS443:3:62:1605:1661#0/1
GGCCTCCTGTCTTTAATGGTTCCATTGGAATGTTTGTTCAT
+HWI-EAS443:3:62:1605:1661#0/1
[RI_¥VbWbV]aabbaa` `` `]bUab`¥ab[F[_MQ^bb
@HWI-EAS443:3:62:31:43#0/1
CTTGTGTTCTCAATATATTGTTTCTCCAACCTCTTGATCGT
+HWI-EAS443:3:62:31:43#0/1
abbb` ` __V_¥SN_VZ_^Z_JUV_Z¥LRV[RBBBBBBBBBB
@HWI-EAS443:3:63:492:1947#0/1
CAATATATTGTTTCTCCAACCTCTTGATAGTGTCTGTTTTT
+HWI-EAS443:3:63:492:1947#0/1
aa^^aaa`a`^`__a¥X`Z[WaY_Z`_`PJOBBSBBBBBB
@HWI-EAS443:3:64:826:955#0/1
ATCGCCCCTAATTATCACTATGAGGAATGCTCCTGTTATC
+HWI-EAS443:3:64:826:955#0/1
abbaabbaaaa^aaaaaaaa`b_aa` ` _aaa` `a^` ` ` ` ` ^
@HWI-EAS443:3:65:1053:1224#0/1
ACTTGGTCCATCGGTCATTACAGTAAAGCAAGAACCANTT
+HWI-EAS443:3:65:1053:1224#0/1
`aba^_]bab^` ` _Q]__` [¥YWS`]T][_` ` ` QPTDY_
@HWI-EAS443:3:65:1533:877#0/1
TGCAGGGATAACTGGCATGGCTCGAATCGACCGTGGGGGT
+HWI-EAS443:3:65:1533:877#0/1
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@HWI-EAS443:3:65:707:281#0/1
CAACTGCCTGTCTTATCATTAGGGCGTGGATTGTCTCGGA
+HWI-EAS443:3:65:707:281#0/1
WO¥^^aa¥X_Q_]`_]X_ba^aZ_YT^__ZZ][QR[DX[
@HWI-EAS443:3:68:1093:1719#0/1
AGGGTGGCTGTGTTAAAGTACAACGGCATAATAACAGACA
+HWI-EAS443:3:68:1093:1719#0/1
a¥]_Oabb_baa[bab_0Za¥W`a_a[` `aa_bb^`U`_^
@HWI-EAS443:3:69:448:1246#0/1
GTTTGGATAGGGAGAACTAAAAGCATTAGTTCAAGAAGCG
+HWI-EAS443:3:69:448:1246#0/1
a` `ba]_^SXaa_YJ]aaaYaa_aY`]^Y^]aZJ¥SZ` `a
@HWI-EAS443:3:72:254:136#0/1
GATATGGGCTCCTGTCTTTAATGGTTCCATTGGAATGCTT
+HWI-EAS443:3:72:254:136#0/1
ZNP]Z_RJRSLYVP¥^Y¥YX[SVUGPWTU^]^NRTNFGNV
@HWI-EAS443:3:74:1056:208#0/1
CTCCATTAGACGATACTGGACCACAACCTGCCTGTCTTCCT
+HWI-EAS443:3:74:1056:208#0/1
ab`^`bbbaabbaaaV`a]GW^ZPY`UTTYWMWPPa^NXU
@HWI-EAS443:3:75:556:1054#0/1
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+HWI-EAS443:3:75:556:1054#0/1
abbbbbbababababaaaaba`_a_aaaa`aaaa¥` `a_]`
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ATCTGGGATCCGAACGGATGGACTGGGACAGACAATAACT
+HWI-EAS443:3:76:206:1446#0/1
^RHYY` `S]aa^T^[^a^_`RN]N^_¥OLU¥PV¥^WXSQO
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+HWI-EAS443:3:77:1195:983#0/1
a^Y` ` `bb`_XX`]TaaV[^`aUQXWD¥FY¥W[TTL[HY`
@HWI-EAS443:3:77:469:934#0/1
CATGTGTAATGGTCTTGCTTTACTGTAATGACCGAAGG
+HWI-EAS443:3:77:469:934#0/1
Y[¥aab` `^¥ab_W_b` `a^b]`^¥a¥]Z]]bbbbbbaba
@HWI-EAS443:3:78:1516:83#0/1
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+HWI-EAS443:3:78:1516:83#0/1
Y_a_aaabRZNa`TQaZ_H]^][¥YHY^__Q^]R¥Z_^`_`
@HWI-EAS443:3:78:1741:1425#0/1
AACCAGACATATGTTAACATCAGCAACACCAACTTTGCTG
+HWI-EAS443:3:78:1741:1425#0/1
`aYa]TZb_UIaPPabaa`¥YaUFU]W[_Q]aUYY]ZW^`
@HWI-EAS443:3:7:882:1157#0/1
CAGACATATGTTAACATCAGCAACACCAACTTTGCTGGTG
+HWI-EAS443:3:7:882:1157#0/1
V¥^Vaabb¥aa_b`^baaa`aba_`aaaa¥GTb`__G¥a
@HWI-EAS443:3:81:1081:80#0/1
GTTTGGATAGGGAGAATAAAAGCATTAGTTCAAGAAGCG
+HWI-EAS443:3:81:1081:80#0/1
a_aaaa]` `¥J^^aV[X^^¥`¥`X]__Y`Z^X[]_VW^Z`
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CAGCAAAGTTGGTGTGCTGATGTTAACATATGTCTGGTT
+HWI-EAS443:3:81:1298:1419#0/1
aWRRRTGM`HH¥Z^`0[`_ZSZWaSZN¥]WYSY¥PUV_ZPX
@HWI-EAS443:3:81:461:885#0/1
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+HWI-EAS443:3:81:461:885#0/1
aabb__baabbbaaaa]` `aba`]TSWZ]VSYYK^aZKTG
@HWI-EAS443:3:81:890:858#0/1
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+HWI-EAS443:3:81:890:858#0/1
abbb¥X]b^aba` `ab`abaaabaaaa`aaaa]aaa_[a
@HWI-EAS443:3:83:645:1956#0/1
TGCAGGGATAACTGGCATGGCTCGAATCGACCGTGGGGGG
+HWI-EAS443:3:83:645:1956#0/1
¥¥a` ` `[a____`a`^` `W]]^¥^]GZVV_VII¥NZ`^HaG
@HWI-EAS443:3:84:1215:1468#0/1
AGGGGGAGTTTTGTTTCAGCATCCAGAATAACAGGGCTGG
+HWI-EAS443:3:84:1215:1468#0/1
ZRH_`]QYYW`VU¥a]MTS_aU^T]_¥Q_^KYPIYGNWKJ

@HWI-EAS443:3:84:663:1350#0/1
ATCAGCAACACCAACTTTGCTGCTGGACAGTCAGTGGNTT
+HWI-EAS443:3:84:663:1350#0/1
_aaaXbab`b_b]__aaa_aSa_[_`U]R`MDX`¥_PDUY
@HWI-EAS443:3:86:208:509#0/1
GGCGGCTCCTGTCTTTAATGGTTCCATTGGAATGTTTGTC
+HWI-EAS443:3:86:208:509#0/1
aaaa`^^]_RTU¥^__X[VUYS[¥XQU[GTS[XNR¥WGRN
@HWI-EAS443:3:87:326:47#0/1
AAAGTACAACGGCATAATAACAGACACTATCAAGAGTCAT
+HWI-EAS443:3:87:326:47#0/1
aa^aZa` `aWbaa^_a¥a`_] ^a_V` [a^¥]Y_a_TKMW_
@HWI-EAS443:3:89:1132:1871#0/1
GGGAGCAGCATATCCTTTTGTGGTGTAAACAGTGACAATG
+HWI-EAS443:3:89:1132:1871#0/1
a_YZVI[Va`¥¥bbbbVYY`b[Uaabb]b`bb]_]aG`b
@HWI-EAS443:3:89:139:1656#0/1
GAGTGATTTGACTATCTTCCCTTTTCTATTCTGAAGATC
+HWI-EAS443:3:89:139:1656#0/1
Y` `abbbbbabbbbbbbbabbaaabbbb]R[b`aaa
@HWI-EAS443:3:8:1342:1309#0/1
AGCCCCTAATTATCACTATGAGGAATGCTCCTGTTATCAT
+HWI-EAS443:3:8:1342:1309#0/1
¥¥^`^aa¥TWZb]ZWXZ¥^[`[] `]NWZHZW¥[`]_LG_
@HWI-EAS443:3:8:200:1417#0/1
AGCTTGGTCAGCAAGTGCTTGTCATGATGGCATCAATTAG
+HWI-EAS443:3:8:200:1417#0/1
aaa[[Y^X_[a`a] `abb][`Va]aa¥K` [_^Q[Y`_RZX
@HWI-EAS443:3:8:220:881#0/1
TGGCTCCGAAAATCCCACTGCATATGTATCCTATCTGATA
+HWI-EAS443:3:8:220:881#0/1
^aV¥aU^`JSZZ[`a_X_^`a^¥HUZZ¥W[¥[_aQOTa_¥
@HWI-EAS443:3:90:307:1549#0/1
GCTGGATTGTATAAGACCTTGCTTCTGGGTTGAACTATTA
+HWI-EAS443:3:90:307:1549#0/1
abbbba¥_ab[] `aaaa` ` `a^aaaa` `^]aaa`aaa^aa
@HWI-EAS443:3:92:1157:1645#0/1
CACGGGCTGGATTGTATAAGACCTTGCTTCTGGGTTGAAC
+HWI-EAS443:3:92:1157:1645#0/1
]bQb`babb_Zaaa`bba_`a__`aaYab`babb_a[Yb_
@HWI-EAS443:3:95:1595:162#0/1
CAACTGCCTGTCTTATCATTAGGGCGTGGATTGTCTCAGA
+HWI-EAS443:3:95:1595:162#0/1
a_[ISbab__][[bbab[aabbaa]b_Uab¥`_ `TabaUBBB
@HWI-EAS443:3:96:1218:679#0/1
CAGCAAAGTTGGTGTGCTGATGTTAACATATGTCTGGTT
+HWI-EAS443:3:96:1218:679#0/1
abb_baababbaYaaababa_aabb] `0`a^aba]abaZb
@HWI-EAS443:3:96:473:1211#0/1
CACGTTCCCTCTCCATACAACCTCAAGATTTGAGTCAGTCG

+HWI-EAS443:3:96:473:1211#0/1
aaaX`baaa`aaaaaa¥`a`_a¥^`___a]_a_W_`
@HWI-EAS443:3:98:1202:1842#0/1
TACTCCATTTGCTCCATTAGACGATACTGGACCACAAATG
+HWI-EAS443:3:98:1202:1842#0/1
a_P_Zab_`b^Q_^^baa¥Za_aa_aZ`^SMDYKa^G^_
@HWI-EAS443:3:98:1500:64#0/1
CGNGAATCAAAATCAGATTGAAACATGCAATCAAAGCGTC
+HWI-EAS443:3:98:1500:64#0/1
a]D]aababba`b[`bbbbba`aaaabS`_`U^a_`V`^^
@HWI-EAS443:3:99:1248:1514#0/1
GCGCCATTAGACGATACTGGACCACAACTGCCTGTCTTAT
+HWI-EAS443:3:99:1248:1514#0/1
aX_TTX_Z]`_X`_aZR`WR`]a`[_SZW¥a[PSDLX]PB
@HWI-EAS443:3:99:1436:503#0/1
GTATGTTATTATGCCGTTGTACTTTAACACAGCCACTGCC
+HWI-EAS443:3:99:1436:503#0/1
aWD]]ababbaaa`^aaba_a^abbb^`_`_a_NX^ZaX^]
@HWI-EAS443:3:9:898:476#0/1
AACCAGACATATGTTAACATCAGCAACACCAACTTTGCTG
+HWI-EAS443:3:9:898:476#0/1
a¥V_abaTaa`abG_``aaaX^YW_`WaXR`_Q__W`WW]
@HWI-EAS443:3:10:824:2036#0/1
AGCCCATCCACTAACAGGGCAGANAGAGGAATTGCCCGCT
+HWI-EAS443:3:10:824:2036#0/1
a`a`_aa`aa__aa]a_¥¥V__UDV^`_¥Z_^QW^TVYWW¥
@HWI-EAS443:3:11:317:1937#0/1
GCTTTNTTGAGAAGTTATTGTCTGTCCCAGTCCATCCGTT
+HWI-EAS443:3:11:317:1937#0/1
abbb[D¥[a]^`^`_a]bba]a`]M``a]OLZ¥SVXaBBB
@HWI-EAS443:3:11:933:541#0/1
ACTCAATTCAACTTGGGAATCAAAATCNGATTGAAACATG
+HWI-EAS443:3:11:933:541#0/1
a^a_``aa__`]]`__`_`^`^[]aRD[]__`]Y][_`^`
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AACTGCCTGTCTTATCATTAGGGCNTGGATTGTCTCCGAA
+HWI-EAS443:3:12:490:1283#0/1
aaaa`aaaa`aaaa`^aa`a]V¥[DU`____^]]^`^_W`
@HWI-EAS443:3:13:1164:1127#0/1
ATTCATATCANGCTCCCCCTTGAATGCAGAACCTTCTTC
+HWI-EAS443:3:13:1164:1127#0/1
`bbbbba[^`^DUab_aXT``aaba_¥¥^`a____``W_VX
@HWI-EAS443:3:13:457:124#0/1
CAGCAAGTGCTTGCATGATGGCATCANTTGGCTAACAAT
+HWI-EAS443:3:13:457:124#0/1
abaabba^¥]S[QFWb`aUaa^S¥_SYD^PaSJ¥^aaaV¥
@HWI-EAS443:3:14:330:1397#0/1
ATTGGCTAACAATTGGAATTNCTGGCCCAGACAATGGGGC
+HWI-EAS443:3:14:330:1397#0/1
]WUX¥`_W¥VP]LX_KXa¥UDT`[V]VWa`¥V[XQQ`T_B

@HWI-EAS443:3:15:398:1090#0/1
ATGCCGTTGTACTTTAACACAGCCACTGCCCCATTNTCTG
+HWI-EAS443:3:15:398:1090#0/1
aaabba_aa]a`aaabaaa]_a```_`¥_a]`__[DP`¥]
@HWI-EAS443:3:17:1350:1852#0/1
ATTGAAACATNCAATCAAAGCGTCATTACTTATGAAAACA
+HWI-EAS443:3:17:1350:1852#0/1
aaabaaa`a¥DZaaa_a___Y__```__¥a_````____[_
@HWI-EAS443:3:17:1490:1803#0/1
GACCGTGGGTGTCTTTCNACCAGAATCTGGAATATCAGAT
+HWI-EAS443:3:17:1490:1803#0/1
_`Z¥WV`^ZT^[X¥Ya[DYUU```aW]```a¥]`ZN]Ya^T
@HWI-EAS443:3:18:1618:1452#0/1
GTCTGAATGTGCATGTGTAAATGGTTCTTGCTTTNCTGTA
+HWI-EAS443:3:18:1618:1452#0/1
Z]Y_b`bbaQaaaa_]aY_Y]aba¥`]]Z_]¥ODRX_U¥
@HWI-EAS443:3:19:336:119#0/1
CGGGAGCAGCATATCCTTTTGNNGGTGTAAACAGTGACACT
+HWI-EAS443:3:19:336:119#0/1
`b`a]a`^aZ]ZZ`R¥¥Z`a¥DY`MTPU¥U_W_N`WS¥QT
@HWI-EAS443:3:20:1739:227#0/1
GGCCTTGCTANATGACAAACATTCCAATGGAACCATTAAA
+HWI-EAS443:3:20:1739:227#0/1
aQ[¥Z¥¥S^TDW____[^^]`]^RWUR^]W]VVVWOYZZX
@HWI-EAS443:3:20:213:823#0/1
CTGGACCACAACCTGCCTTATCANTAGGGCGTGGATT
+HWI-EAS443:3:20:213:823#0/1
aT]RKP_T^¥V]ZbbWZ¥aa]^]]bMD[aaYaa^Z```____
@HWI-EAS443:3:23:1082:811#0/1
AGCCCATCCACTAACNGGGCAGAGAGGAATTGCCCGCT
+HWI-EAS443:3:23:1082:811#0/1
`aa`aaa]aaaa`bYDYaaa_¥Ua[a¥a```_`XX^`¥`W¥
@HWI-EAS443:3:23:779:524#0/1
AGTCCATCCGTTCCGATCCCNAATCATCTCAAACCGTTT
+HWI-EAS443:3:23:779:524#0/1
`a_a_baaaa````^`¥`SD[_`_`_^____`__U^_Z]^
@HWI-EAS443:3:24:827:1272#0/1
GTTTGGATAGGGAGAACTAAAAGCATTNGTTCAAGAAACG
+HWI-EAS443:3:24:827:1272#0/1
aabba^]aa`_aYZ¥^Xa`]]`a`Za`XDU[YU^`]Y¥]]a
@HWI-EAS443:3:25:466:798#0/1
ATCGACCGTGGGTGTCTTTCNACCAGAATCTGGAATATCA
+HWI-EAS443:3:25:466:798#0/1
a_aaa¥][ML_`R_RTS¥[[DXX^]Q^SQZ^QWY[Y¥T[W
@HWI-EAS443:3:2:1613:603#0/1
CCACGGTCGATTCCGAGCCATGCCAGTTANCCCTGCACACA
+HWI-EAS443:3:2:1613:603#0/1
aab`baV]^Za`aa```_abaa]`aa^`VDHVQ_a¥`X`^_
@HWI-EAS443:3:31:835:2043#0/1
AGCAAGTGCTTGTGCATGATGGCATCAATTGGCTNACAATT

+HWI-EAS443:3:31:835:2043#0/1
aabbaY[ab_`^Waaa_aV`¥`a]^a` `^¥YWLD¥a^^Y]
@HWI-EAS443:3:31:849:1461#0/1
GCATGTGTAATGGTTCTNGCTTTACTGTAATGACCGATG
+HWI-EAS443:3:31:849:1461#0/1
aZTSaXXQX^¥a` [0¥bWDX^]¥]XZU_`____`XORFKX
@HWI-EAS443:3:34:1115:879#0/1
GTCAGGATATAGCGGGAGTTTTGTTGAGCANCCAGAACTA
+HWI-EAS443:3:34:1115:879#0/1
a`abbb_a_aa`_aaaV¥M¥`a_V`Y[_`_XDT^¥W[_`WW¥
@HWI-EAS443:3:36:1511:1398#0/1
GCTGGATTGTATAAGACCTTGCTTCTGGGTTGAANTAATC
+HWI-EAS443:3:36:1511:1398#0/1
¥__a_[X¥¥`_a`aa`ba`a`]X__WXaaa[D]Kaab
@HWI-EAS443:3:36:826:1724#0/1
CGATACTGGACCACAANTGCCTGTCTTATCATTAGGGCGT
+HWI-EAS443:3:36:826:1724#0/1
`ab_`b_bb_` `abb¥D^^_aaa` `bab_]`aaVHWaH^
@HWI-EAS443:3:38:1657:1105#0/1
CAGCATCCAGAACTAACAGGGCTGGATTGTATNAGACCTT
+HWI-EAS443:3:38:1657:1105#0/1
a_bbaab`aaaa^a_baba^a`bb`XaaBBBBBBBBBBBB
@HWI-EAS443:3:39:1717:1609#0/1
ATGCAATCAAAGCGTCNTTACTTATGAAAACAACACTTGG
+HWI-EAS443:3:39:1717:1609#0/1
^_ba_]aa_¥aW_`¥D¥Y_¥baaaaP^__]U]`aR¥[_M
@HWI-EAS443:3:3:1095:1012#0/1
CACCNACGGTTCGATTCGAGCCATGCCAGTTATCCCTGCAC
+HWI-EAS443:3:3:1095:1012#0/1
T`a¥D¥bababZU^b`J¥]`¥`]SWba^X`aZaZaba]`_
@HWI-EAS443:3:3:1399:1286#0/1
TCCTTTTGTGGTNTAAACAGTGACACTGTGGGTTGGTCTT
+HWI-EAS443:3:3:1399:1286#0/1
^a^ababaab_MD¥`_aaa`^a`_a_aaPa_a¥Y` `[_
@HWI-EAS443:3:42:316:1310#0/1
GCCACTCAATTCAACTTGGGAATCAANATCAGATTGAAAC
+HWI-EAS443:3:42:316:1310#0/1
abaaaaaa]_a`a¥a`_`a`aaaa[D]`aaa^_` `a`VV
@HWI-EAS443:3:42:680:1263#0/1
CCCCTGCANATGTATCCTATCTGATATTCCAGATTCTGG
+HWI-EAS443:3:42:680:1263#0/1
ab^[]WX¥[D^VSW_a^a` [`^^`_^]]]a`a_`X` [_`
@HWI-EAS443:3:44:1038:858#0/1
CCCACGGTTCGATTCGNGCCATGCCAGTTATCCCTGCACAC
+HWI-EAS443:3:44:1038:858#0/1
abbbabb¥_aT]¥a¥D[^a` `a_`¥^`_a`_` [aZ¥^VU
@HWI-EAS443:3:44:1490:35#0/1
AGCATATCCTTTTGTGGTGTAAACNGTGACACTGTGGGTT
+HWI-EAS443:3:44:1490:35#0/1
a¥aRa¥aaaaaba_a]¥a`]`^XDZWa`¥_¥` `W`^ZV¥

@HWI-EAS443:3:44:938:232#0/1
ATTGTCTGGGCCAGAAANTCCAATTGTTAGCCAATTGATG
+HWI-EAS443:3:44:938:232#0/1
aaab_a`aa_T_^a]]XDY]^a_^]TY^YYQW^[S]XYV^
@HWI-EAS443:3:45:900:41#0/1
ACCGTGGGTGTCTTTCAACCAGAATCTNGAATATCAGATA
+HWI-EAS443:3:45:900:41#0/1
a[`aaa]¥[a]^aa¥^Z`¥X_`]^`^V[D¥][_T^RQ_[_`^
@HWI-EAS443:3:47:1101:1249#0/1
GTCATTACAGTAAAGCAAGAACCATTTACACATGCANATT
+HWI-EAS443:3:47:1101:1249#0/1
^M¥`aa`aa¥a__`a^^^____`aa_^^`^`¥TDZ^_
@HWI-EAS443:3:49:1251:1168#0/1
GGCTCCTGTCTTTAATGGTTCCANTGGAATGTTTGTCTATT
+HWI-EAS443:3:49:1251:1168#0/1
abbbb_bb]abb¥b`Z¥`ba]WD^^`a__S^baba_`ba
@HWI-EAS443:3:50:1571:1960#0/1
GTTAACATCAGCAACACCAACTTTGCTNCTGGACAGTCAG
+HWI-EAS443:3:50:1571:1960#0/1
`aaba`aaaa`ba_b_^__Xa__a]¥DU_``]]`Y]^
@HWI-EAS443:3:52:1207:204#0/1
CACAGTGTCACTNTTTACACCACAAAAGGATATGCTGCTC
+HWI-EAS443:3:52:1207:204#0/1
a^`[a^¥W¥¥]^DZ_`_X`¥T^TZ]_]__TZ__[FS[OWH
@HWI-EAS443:3:52:1645:1694#0/1
ATCNGATTGAAACATGCAATCAAAGCGTCATTACTTATGA
+HWI-EAS443:3:52:1645:1694#0/1
a`VD[ababZa_^a`a_aa_P___aPbY^aaaa[a``aa_
@HWI-EAS443:3:52:465:1307#0/1
CAACTGCCTNTCTTATCATTAGGGCGTGGATTGTCTCCGA
+HWI-EAS443:3:52:465:1307#0/1
aZ`abbaa^D0¥bb`aaaaaba`a`_ab``aba__a^Ua`
@HWI-EAS443:3:53:1447:1494#0/1
TGCAATCAAAGCGTCATTACTTNTGAAAACAACACTTGGG
+HWI-EAS443:3:53:1447:1494#0/1
abYaa^a`a[¥_`WUa`aa]a¥D¥a```a¥a_¥`_a^]_P
@HWI-EAS443:3:53:598:479#0/1
CAANATCAGATTGAAACATGCAATCAAAGCGTCATTACTT
+HWI-EAS443:3:53:598:479#0/1
aaYD]aa_¥`abab`abbbbbb_]bbaaaab`¥abb`^bb
@HWI-EAS443:3:54:967:2020#0/1
CAGGGCTGGATTGTATAAGACCTTGCTTCTGGNTTGAAC
+HWI-EAS443:3:54:967:2020#0/1
UUY]aa]ZabVbaU¥V_bbWb]b_b_ba`U`ZDG_]a[aN
@HWI-EAS443:3:55:247:543#0/1
CTGATTAGTTCAACCCAGAAGCAAGGTCNTATACAATCCA
+HWI-EAS443:3:55:247:543#0/1
ab`bab¥bbbab`abbb`ab__aba_[D^aab`bbaaaa
@HWI-EAS443:3:57:261:902#0/1
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+HWI-EAS443:3:87:1130:1039#0/1
aba]]a¥a`a`XV`a`¥VDY[_`^[XZ[¥K¥`]VXY[]N
@HWI-EAS443:3:89:1284:525#0/1
TGGCTGTGTTAAAGTACAACGGCATAATAACAGACANTAT
+HWI-EAS443:3:89:1284:525#0/1
aaa_a]M[]`Z¥^XNVOZa[aa__`a_a_YFY_UQYDS[]
@HWI-EAS443:3:89:335:338#0/1
GTGAAATCACATGTGTGTGNAGGGATAACTGGCATGGCTC
+HWI-EAS443:3:89:335:338#0/1
a_aaaa¥`aaaa^a^`[[DQa_`^_T_]____`_¥^¥S^_
@HWI-EAS443:3:89:837:1838#0/1
CAGGGATAACTGGCATGGCTCGAATCGACCGTNGTGTCT
+HWI-EAS443:3:89:837:1838#0/1
abbb`bbbbbabbbb`abb^[¥__^]T[]ZPYD¥HZHY¥
@HWI-EAS443:3:8:994:476#0/1
AGTGNTTCCGTGAAATTAGCGGGCAATTCCTCTCTCTGC
+HWI-EAS443:3:8:994:476#0/1
abZ]DTa`^`[]Y_`_`X]_a_UY[_¥TS^R[R^^`V
@HWI-EAS443:3:92:1637:700#0/1
GTATNAGACCTTGCTTCTGGGTTGAACTAATCAGAGGGCG
+HWI-EAS443:3:92:1637:700#0/1
a^]YD^VR__a_]`^¥S_a_a^N]_¥bNaa```[aa``__¥_
@HWI-EAS443:3:98:358:1290#0/1
CGCTTGGTCAGCAAGTGCTTNTCATGATGGCATCAATTGG
+HWI-EAS443:3:98:358:1290#0/1
`baaabaU`a`aaa_a^`ZDWaaa````a^__`_`a^^_
@HWI-EAS443:3:98:992:670#0/1
CGATNCTGGACCACAACCTGCCTGTCTTATCATTAGGGCGT
+HWI-EAS443:3:98:992:670#0/1
ab`[DYabU_YS[Y[bW[__OWaVbaW^aJVbaX]QYIU]
@HWI-EAS443:3:9:210:257#0/1
ACTCAAGGGCCTTGCTAAATGACAAACANTCCAATGGAA
+HWI-EAS443:3:9:210:257#0/1
aaa`a`_`_``aaa]_`_]_`^_W^`_`^XDZ_]_`^_`_`_`
@HWI-EAS443:3:100:693:589#0/1
ACCAGACATATGTTAACATCAGCAACACCAACTTTGCTGC
+HWI-EAS443:3:100:693:589#0/1
a_aaa__a`_a^aa`````__^aa_a]U_^Z¥_]_ZZ_]`
@HWI-EAS443:3:10:1694:1075#0/1
ACCAGACATATGTTAACATCAGCAACACCAACTTTGCTGC
+HWI-EAS443:3:10:1694:1075#0/1
a`]`aa`aaaab_aaaVaa]``]a`Y`[S^^X`_`^_V]_V
@HWI-EAS443:3:11:1048:1393#0/1
CGGCAATGGTGTGGATAGGGAGAACTAAAAGCATTACT
+HWI-EAS443:3:11:1048:1393#0/1
`aaa_abbaTbVbab_Vbaa`abaaa_^Vaaba]`YXBBB
@HWI-EAS443:3:11:1133:1929#0/1
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+HWI-EAS443:3:11:1133:1929#0/1
aG`_a`Va_`[_`ZaX^T^_Z]U_]`_]LU_X_NYUHRNQB

+HWI-EAS443:3:1:1129:708#0/1
[D^_baZ^` `aZaaa]a¥_` `a`^`VT]_V__UBBBBB
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+HWI-EAS443:3:1:1539:1288#0/1
a[a_aZNV` `a`¥^__a_X__^_^__ZSUPLNSBBBBBB
@HWI-EAS443:3:1:1586:986#0/1
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+HWI-EAS443:3:1:1586:986#0/1
aTZTX0`]_ZYRX^^a^[_aa[`[TL[[¥` ^LTUPBBBBBB
@HWI-EAS443:3:21:973:604#0/1
TTCGGAGACAATCCACGCCCTAATGATAAGACAGGCAGGT
+HWI-EAS443:3:21:973:604#0/1
aaa^VDVZ[_NPa_[ZU¥RLP_^YRY^BBBBBBBBBBBBBB
@HWI-EAS443:3:22:475:227#0/1
GCCAGGATATAGCGGGAGTTTTGTTCCAGCATCCAGAACTA
+HWI-EAS443:3:22:475:227#0/1
^FS^^STUZ¥XX]]V¥PTRNXLTRNUNPQJJSTTUNWMUB
@HWI-EAS443:3:23:1199:904#0/1
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+HWI-EAS443:3:23:1199:904#0/1
a]ZLFSXWU^aZOZP[^UW¥]QV]OP` ¥¥¥BBBBBBBBBBB
@HWI-EAS443:3:24:1108:1111#0/1
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+HWI-EAS443:3:24:1108:1111#0/1
aba`bbbaaW` `aaabba^`^]a^^]]YaR]^` _aa_aa
@HWI-EAS443:3:24:1335:1386#0/1
GAGCTGGATTGTATAAGACCTTGCTTCTGGGTTGAACTAA
+HWI-EAS443:3:24:1335:1386#0/1
a¥` `TZ[L[T` ^^_Zaa`_]RX¥[^` Z_b]]Z_aabYaZ[
@HWI-EAS443:3:25:1066:948#0/1
ACCAGACATATGTTAACATCAGCAACACCAACTTTGCTGC
+HWI-EAS443:3:25:1066:948#0/1
[bYbab` `][^aZVabbY]^VaY_ba_Z[]a[_a_ab[WY
@HWI-EAS443:3:25:242:64#0/1
ACCAGACATATGTTAACATCAGCAACACCAACTTTGCTGC
+HWI-EAS443:3:25:242:64#0/1
ababbb^aaaba` aaaaaaaaaaaaYa][_a_` `^` ^^aX
@HWI-EAS443:3:27:1327:1962#0/1
GGCTGAATGTGCATGTGTAATGGTTCTTGCTTTACTGTA
+HWI-EAS443:3:27:1327:1962#0/1
¥F_`bbW^^N^aa]aZ`]^aaaaa^Yaa_b¥` U[_]a_Va
@HWI-EAS443:3:27:1474:736#0/1
ACCAGACATATGTTAACATCAGCAACACCAACTTTGCTGC
+HWI-EAS443:3:27:1474:736#0/1
a]` `^YWU¥` a__ab_]a` ¥a_U_`YaZ__a_` ` `X`_^
@HWI-EAS443:3:30:1361:908#0/1
TGACTGTCCAGCAGCAAAGTTGGTGTGCTGATGTTAAAA
+HWI-EAS443:3:30:1361:908#0/1
ab`Y^Y_a[_]` a[Z` ZaV_a` Z¥^aZY__¥_aXXSWHZ

@HWI-EAS443:3:30:1635:227#0/1
CAGTCCATCCGTTCCGATCCCAAATCATCTCAAACCGCT
+HWI-EAS443:3:30:1635:227#0/1
^Ta^^a^]W`b[^`a#a`b`a^Y]aX_Y^`]_PS`S^
@HWI-EAS443:3:30:1704:1007#0/1
ATCCTATCTGATATTCCAGATTCTGGTTGAAAGACACCTC
+HWI-EAS443:3:30:1704:1007#0/1
aY`_`_YaaZ[Ya^[[LL`TXTZY_Y]PV`NX`Z^RUPPSR
@HWI-EAS443:3:32:1313:218#0/1
ATGGGAACCATTTCATATCATGCTCCCCCTTGAATGCAGA
+HWI-EAS443:3:32:1313:218#0/1
[^U_ab#XRZ_UTP#a_QZ` `V_NYSSL[#` `#Y#V]Z[]
@HWI-EAS443:3:32:275:2033#0/1
GTCCTGTTAGTTCTGGATGCTGAACAAAACCTCCCGCTATA
+HWI-EAS443:3:32:275:2033#0/1
a`bbaaaa[`aab^` `a_` `` `aa_aab^X^`aa^a[_^W
@HWI-EAS443:3:34:1111:1154#0/1
AGCCCATCCACTAACAGGGCAGAGAGGAATTGCCCGGT
+HWI-EAS443:3:34:1111:1154#0/1
_]a_Y_#aba]aa`a]ZX]]Z#SMTXVVY#_WR]MZNLFQ
@HWI-EAS443:3:34:253:945#0/1
TNCGGGAGCAGCATATCCTTTTGTGGTGTAACAGTGACA
+HWI-EAS443:3:34:253:945#0/1
^D[b]X_`^`aaba`U`_baaaa^#a#VT#]^` `a`Y_YPY
@HWI-EAS443:3:34:569:446#0/1
TTCGGAGACAATCCACGCCCTAATGATAAGACAGGCAGGT
+HWI-EAS443:3:34:569:446#0/1
a__Z_W_Z^#WW_#^ZaaYVP]_]ZRU]]XOLO[BBBBBB
@HWI-EAS443:3:35:373:221#0/1
ACCAGACATATGTTAACATCAGCAACACCAACTTTGCTGC
+HWI-EAS443:3:35:373:221#0/1
aZZ]_#^[]U[aVY[XaaXX]aZ^^T]^]SI[UVWYTPUY
@HWI-EAS443:3:35:824:274#0/1
GCCTGTCCCAGTCCATCCGTTCCGATCCCAAATCATCTCA
+HWI-EAS443:3:35:824:274#0/1
ababbababaa`aaaa` `a__`_#]#_`^aWTTUX_#Y#UX
@HWI-EAS443:3:36:211:1469#0/1
AACCCGCTAGTCCAGATTGTGTTCTTTTGGGTCGCCCTC
+HWI-EAS443:3:36:211:1469#0/1
a`aab`a#^RL_a__[^#_YUXX`#_#VVXVZV[T^^_V_
@HWI-EAS443:3:36:415:637#0/1
ACCAGACATATGTTAACATCAGCAACACCAACTTTGCTGC
+HWI-EAS443:3:36:415:637#0/1
a_ba`a`Y`aaa__`[aa`^aaaa_`^^__V__^`_`#^
@HWI-EAS443:3:36:617:1775#0/1
GTGTCTTTCAACCAGAATCTGGAATATCAGATAGGATAAA
+HWI-EAS443:3:36:617:1775#0/1
]ZXQWY^XU_GRaa^`ZOXJLU]XVGQNPT`BBBBBB
@HWI-EAS443:3:36:656:141#0/1
GACCGCTAATTTACGGAAACCACTGACTGTCCAGCAGCA

@HWI-EAS443:3:45:587:1612#0/1
ACCAGACATATGTTAACATCAGCAACACCAACTTTGCTGC
+HWI-EAS443:3:45:587:1612#0/1
`¥aa_a_a_aba^a`aa`aaa_`aa^a^`¥[]aa``¥Ya^
@HWI-EAS443:3:46:538:470#0/1
GTAAACAGTGACTGTGGGTTGGTCTTGGCCAGACGGGG
+HWI-EAS443:3:46:538:470#0/1
aaaaa_`a_`a_aZ_a¥`a_SYa_V[__^`¥^Z`YPa¥G¥
@HWI-EAS443:3:46:931:1115#0/1
GNATTGTCTCCGAAAATCCCACTGCATATGTATCCTATCT
+HWI-EAS443:3:46:931:1115#0/1
^D^bbbabbbabaaabbaabaaaaabaaababaa`aaa`a
@HWI-EAS443:3:47:1466:810#0/1
GTGCAGGGATAACTGGCATGGCTCGAATCGACCGTGGGGG
+HWI-EAS443:3:47:1466:810#0/1
a`ba^bbbaaaa`ba`[aba`__¥ZSYSOUGPLZP]BBBB
@HWI-EAS443:3:48:1211:1753#0/1
ATCTCCTGTCTTTAATGGTTCCATTGGAATGTTTGTCTATT
+HWI-EAS443:3:48:1211:1753#0/1
U[a^__a_WZ^a^Z_```Z__Q]b_b`S```ZZ_aU¥F[^a
@HWI-EAS443:3:48:826:184#0/1
ACCAGACATATGTTAACATCAGCAACACCAACTTTGCTGC
+HWI-EAS443:3:48:826:184#0/1
¥X¥^b`¥b`babaa`¥R]aaa_Ya`]a_[]`[a__dW^`T
@HWI-EAS443:3:4:75:768#0/1
TACCCTCTCCATACAACCTCAAGATTTGAGTCAGTCGCTTG
+HWI-EAS443:3:4:75:768#0/1
a_¥W¥Z_a]ZM^aa`RTXN[WS`_]_Z¥R]]PZa[NZBBBB
@HWI-EAS443:3:50:672:465#0/1
ACGGTTTTGAGATGATTTGGGATCCGAACGGATGGACTTG
+HWI-EAS443:3:50:672:465#0/1
aab]`baba[bab_`bbbaaaX`P^a__a_YaVNNT^][
@HWI-EAS443:3:51:1159:175#0/1
GTTCACTATGAGGAATGCTCCTGTTATCCTGATTCTAGTG
+HWI-EAS443:3:51:1159:175#0/1
XVbaababb`_`^aaaab`_aaaabaaa¥a__aaaaa¥`
@HWI-EAS443:3:51:402:606#0/1
CCGGGCTCCTGTCTTTAATGGTTCCATTGGAATGTTTGTCT
+HWI-EAS443:3:51:402:606#0/1
`_aaaaaaaab```bbaaa``aaaa`aaa]``ba`aaa[_
@HWI-EAS443:3:52:376:1459#0/1
GCTTGGATAGGGGAGAACTAAAAGCATTAGTTCAAGAAACG
+HWI-EAS443:3:52:376:1459#0/1
]FTQOYUX]U_UYX]X]WZ]X]U]XWWW]SXWZM¥XQTXZ
@HWI-EAS443:3:54:281:1385#0/1
ACCAGACATATGTTAACATCAGCAACACCAACTTTGCTGC
+HWI-EAS443:3:54:281:1385#0/1
aab_^`aaa_aa_aa_aaa```[`a_a^¥^^]_`_`_`_`]
@HWI-EAS443:3:55:544:840#0/1
GTGCAGGGATAACTGGCATGGCTCGAATCGACCGTGGGGG

+HWI-EAS443:3:55:544:840#0/1
aYa`[aXSW_`¥__^QXULWT]¥WKVSPMKNVBBBBBBB
@HWI-EAS443:3:56:1048:1745#0/1
GGGGTCAGCAAGTGCTTGTCATGATGGCATCAATTGGCTA
+HWI-EAS443:3:56:1048:1745#0/1
]aaaX_`baaa_Hba`][H^]baab`a^^¥a_aaaa_`
@HWI-EAS443:3:58:504:1255#0/1
CAGTCCATCCGTTCCGATCCCAAATCATCTCAAACCGCT
+HWI-EAS443:3:58:504:1255#0/1
aaaaa`aba`a``_aa`_`_]`a`a]N]__a_] [W¥[Z
@HWI-EAS443:3:58:797:1326#0/1
ACCAGACATATGTTAACATCAGCAACACCAACTTTGCTGC
+HWI-EAS443:3:58:797:1326#0/1
a`aU`a```_____]a_]__^____a_]`^]__Z_]`]Y]Z]
@HWI-EAS443:3:59:94:96#0/1
GACACCCACGGTCGATTCGAGCCATGCCAGTTATCCCTCC
+HWI-EAS443:3:59:94:96#0/1
aa`__a`aabbROULY___V¥BBBBBBBBBBBBBBBBBB
@HWI-EAS443:3:5:50:914#0/1
ACCAGACATATGTTAACATCAGCAACACCAACTTTGCTGC
+HWI-EAS443:3:5:50:914#0/1
aababaaaaa`b¥a^`aaaVaaaaa```^```_`_`B
@HWI-EAS443:3:60:849:948#0/1
ACCAGACATATGTTAACATCAGCAACACCAACTTTGCTGC
+HWI-EAS443:3:60:849:948#0/1
WS[IU`TW_Y_b]S]`aX¥ZVX[^a`^_X¥QZXT]V`TL
@HWI-EAS443:3:61:1530:747#0/1
TTCGGAGACAATCCACGCCCTAATGATAAGACAGGCAGGT
+HWI-EAS443:3:61:1530:747#0/1
^[VQ¥`_TUXXXVYUV¥[[VW]`^^ZX]ZBBBBBBBBBB
@HWI-EAS443:3:62:1474:1666#0/1
CAAAGCGTCATTACTTATGAAAACAACACTTGGGTAAACC
+HWI-EAS443:3:62:1474:1666#0/1
ababaab^GZa_`baWbaaaa`Va[`¥a`W[]^_abSa
@HWI-EAS443:3:63:1353:1634#0/1
CACCTCTCCATACAACTCAAGATTTGAGTCAGTCGCTTGG
+HWI-EAS443:3:63:1353:1634#0/1
_baabbaa_baabaaaba_aabbbaSb^^aa`[_Q]Z_B
@HWI-EAS443:3:64:530:1343#0/1
TTCGGAGACAATCCACGCCCTAATGATAAGACAGGCAGGG
+HWI-EAS443:3:64:530:1343#0/1
]Z_a_Wa[b_Z_aa_]W_a`RXQ¥XOW_Q[``BBBBBBB
@HWI-EAS443:3:68:454:154#0/1
GGCCCCTATATCCTGACCACTCATTATTCTACGATAT
+HWI-EAS443:3:68:454:154#0/1
aaaaabaa^aaaa`a`_`_a^^]```_`_`_`_Z¥`]^]^
@HWI-EAS443:3:68:652:861#0/1
ATTGGAATGTTTGTCTTTAGCAAGGCCCTTGAGTCACG
+HWI-EAS443:3:68:652:861#0/1
abZaa¥bbYS^bb]aaaa][[a`aa[aa`a]`YV¥VaZG[

@HWI-EAS443:3:6:505:1992#0/1
CAAAGCGTCATTACTTATGAAAACAACACTTGGGTAAACC
+HWI-EAS443:3:6:505:1992#0/1
`bTa`RUQV_`ZO_Y]_``aaaVZ¥`^¥X^WSFJM[_`BB
@HWI-EAS443:3:6:964:893#0/1
GGTTGAAAGACACCCACGGTCGATTTCGAGCCATGCCAGGT
+HWI-EAS443:3:6:964:893#0/1
a`W]_aaa[_[_RLVZN_aQBBBBBBBBBBBBBBBBBBBB
@HWI-EAS443:3:70:163:1123#0/1
ACCAGACATATGTTAACATCAGCAACACCAACTTTGCTGC
+HWI-EAS443:3:70:163:1123#0/1
aabYZ^aZ]aaa_`a^aa_aX^aa`^¥^^V¥`Y]ZN]]]^
@HWI-EAS443:3:70:792:168#0/1
ACCAGACATATGTTAACATCAGCAACACCAACTTTGCTGC
+HWI-EAS443:3:70:792:168#0/1
aa`aaaaaaaab`aa_`_`a`aa`]^¥`_^^^]^]^_X
@HWI-EAS443:3:71:1371:1515#0/1
CAAAGCGTCATTACTTATGAAAACAACACTTGGGTAAACC
+HWI-EAS443:3:71:1371:1515#0/1
abbbbabbbbbbabbabbbbbbabbabab_bbaabbaa_
@HWI-EAS443:3:71:1470:190#0/1
ACCAGACATATGTTAACATCAGCAACACCAACTTTGCTGC
+HWI-EAS443:3:71:1470:190#0/1
]aa^aba`a^a`^aaba`aaaaY`a[bU`aaZaaaa¥__Y
@HWI-EAS443:3:72:671:737#0/1
ACCAGACATATGTTAACATCAGCAACACCAACTTTGCTGC
+HWI-EAS443:3:72:671:737#0/1
aaaaaa`aaaba`aaaaaa`_aaaa_a___``a_a`^__]
@HWI-EAS443:3:75:392:925#0/1
CACCTCTCCATACTCAAGATTTGAGTCAGTCGCTTG
+HWI-EAS443:3:75:392:925#0/1
ab`bb¥babaaaba_Tb]^`^]aaa`_a`a^`aaZ_`_`ZP
@HWI-EAS443:3:75:680:799#0/1
CAAGGTCTTATACAATCCAGCCCTGTTAGTTCTGGATGGT
+HWI-EAS443:3:75:680:799#0/1
a]aabIbbaaabbbaa`_WX_Yba]Ia`U_Xa[I¥`^¥DZ
@HWI-EAS443:3:80:1699:1746#0/1
GAGGGATGTGTTTGTGATAAGGGAACCATTCATATCATGC
+HWI-EAS443:3:80:1699:1746#0/1
aa¥[``ZT_^^VVXRZa`[]TFS`OPZ[XP¥`VGX[S[Q
@HWI-EAS443:3:80:811:557#0/1
TCCCAGTCCATCCGTTCCGATCCCAAATCATCTCAAATC
+HWI-EAS443:3:80:811:557#0/1
`a`Z`b`aababa_Z[a_UHTZXKW]WTWVUWYT]TY[FN
@HWI-EAS443:3:82:276:1676#0/1
CNAATACGGCAATGGTGTGGATAGGGAGAACTAAAAGC
+HWI-EAS443:3:82:276:1676#0/1
[D^bbbbb`T^^aaS_[]W]__a`]YSY_`aa_]Z¥Z¥
@HWI-EAS443:3:83:236:1658#0/1
GCGGGCGACCCAAAGAGAACAATCTGGACTAGCGGGAG

+HWI-EAS443:3:83:236:1658#0/1
a^JWZ`_]aZS_¥YPY[X¥a]Z¥^¥]]S¥¥^¥XBBBBBBBB
@HWI-EAS443:3:83:490:1896#0/1
ACCAGACATATGTTAACATCAGCAACACCAACTTTGCTGC
+HWI-EAS443:3:83:490:1896#0/1
`_aa_`a[Y]a`_aa_a]Z`ZRaaa¥`_]__Z[ZWVaZ]]
@HWI-EAS443:3:83:898:1877#0/1
AGATATGTTAACATCAGCAACACCAACTTTGCTGCTGGAC
+HWI-EAS443:3:83:898:1877#0/1
YE^a[]aQ¥¥a^`Yaaaa¥aZ_aaP[J^_]`^`WZR
@HWI-EAS443:3:84:697:599#0/1
CAGCCATCATGACAAGCACTTGCTGACCAAGCGACTGACT
+HWI-EAS443:3:84:697:599#0/1
`UQ_]`aa[`]a^]Ya`Ya[0`^`[_a_QYa_XVVaZ`Z
@HWI-EAS443:3:85:207:237#0/1
CTGACCACAACCTGCCTGTCTTATCATTAGGGCGTGGATTG
+HWI-EAS443:3:85:207:237#0/1
aaaZQVsx^X¥`PJQ[^PRXP_V^]SXXX]BBBBBBBBBB
@HWI-EAS443:3:88:1032:227#0/1
ANCACAACCTGCCTGTCTTATCATTAGGGCGTGGATTGTCT
+HWI-EAS443:3:88:1032:227#0/1
YDRaaZ_^a`]`aaU]]bbaaabaa`Y```^`aaaa_]`^a
@HWI-EAS443:3:88:1458:1306#0/1
ACCAGACATATGTTAACATCAGCAACACCAACTTTGCTGC
+HWI-EAS443:3:88:1458:1306#0/1
W_[abaaaba`b`aa`a`Yaa`aaRa`^`Zaaaa]^`
@HWI-EAS443:3:88:1496:1027#0/1
GCCCCGTAATTTACGGAACCACTGACTGTCCAGCAGAA
+HWI-EAS443:3:88:1496:1027#0/1
H¥Xaa¥bbbaaZ_b`]`^`ba`b[baa[baIRO¥ZUa¥]a
@HWI-EAS443:3:88:1708:1548#0/1
CATGTGTGTGCAGGGATAACTGGCATGGCTCGAATCGAAC
+HWI-EAS443:3:88:1708:1548#0/1
abbbababbb_aabbbbababba`bba`aba`W`ZGaXFX
@HWI-EAS443:3:92:729:769#0/1
CAGCCGTTGTAACACAGCCACTGCCCCATTGTCTG
+HWI-EAS443:3:92:729:769#0/1
aba`^`a`UWX_aa````a`^¥_a__a_ZZ¥^a`QZVY
@HWI-EAS443:3:92:777:1320#0/1
GCCCCCTCCATACAACCTCAAGATTTGAGTCAGTCGCTTG
+HWI-EAS443:3:92:777:1320#0/1
]````_```]]¥]`_____]¥_ababaab]aa_^]`X_a^
@HWI-EAS443:3:92:997:390#0/1
GTGCAGGGATAACTGGCATGGCTCGAATCGACCGTGGGGG
+HWI-EAS443:3:92:997:390#0/1
aab]aaaaa_a`¥aaa`T^`_Y`¥^Z^LEUUSTUQ_`¥UB
@HWI-EAS443:3:93:1204:541#0/1
ACCAGACATATGTTAACATCAGCAACACCAACTTTGCTGC
+HWI-EAS443:3:93:1204:541#0/1
]U_Y]^b__^^a^]`_]T[aaba`b[Y^a_a`]M]¥Q

@HWI-EAS443:3:93:1502:1032#0/1
ACCAGACATATGTTAACATCAGCAACACCAACTTTGCTGC
+HWI-EAS443:3:93:1502:1032#0/1
a_`a`aUa`abb^_``a_^a`¥aa]^^^a``W¥X^
@HWI-EAS443:3:93:814:573#0/1
ACCAGACATATGTTAACATCAGCAACACCAACTTTGCTGC
+HWI-EAS443:3:93:814:573#0/1
a_aa¥`aaZabaaaa`aVaa¥]Y``]]U`Ya^`aI_]]
@HWI-EAS443:3:95:1715:1083#0/1
GACCCATTGTCTGGGCCAGAAATTCCAATTGTTAGCCAAT
+HWI-EAS443:3:95:1715:1083#0/1
^abbabbbb`_bbb]_aaUabbbbaZabbbU`b``]bbbb
@HWI-EAS443:3:96:1279:951#0/1
ATCGTGGGTGTCTTTCAACCAGAATCTGGAATATCAGATA
+HWI-EAS443:3:96:1279:951#0/1
aa`b`bbb]a_aabb`aa`[abaaa^aaaa`aaa^`a_`a
@HWI-EAS443:3:96:1644:983#0/1
ANCGACCGTGGGTGTCTTTCAACCAGAATCTGGAATATCA
+HWI-EAS443:3:96:1644:983#0/1
[DVabb]b`aab]^`ZabaWaaa``TY`a_]H^Q`¥`aG`
@HWI-EAS443:3:97:703:940#0/1
TGCATGTGTAATGGTTCTTGCTTTACTGTAATGACCGGT
+HWI-EAS443:3:97:703:940#0/1
aaaaab`b`aaaaba_`_aaa]aa`a`aa_aaaaa___MZ
@HWI-EAS443:3:97:894:1359#0/1
CGTGCAGGGATAACTGGCATGGCTCGAATCGACCGTGGGG
+HWI-EAS443:3:97:894:1359#0/1
_bbabbbabaaabaababbabX_aaRR¥[Q`SPSaZa^`G
@HWI-EAS443:3:98:183:1091#0/1
TCGCCACTCAATTCAACTTGGGAATCAAAATCAGATTGAA
+HWI-EAS443:3:98:183:1091#0/1
aa_a_aaaaaaaaa`aaaa`aaaa__aa````_aaa_`aaa
@HWI-EAS443:3:98:465:1937#0/1
ACCAGACATATGTTAACATCAGCAACACCAACTTTGCTGC
+HWI-EAS443:3:98:465:1937#0/1
ab]`Y_TZaa_a_a````aU`a¥^a[a__`¥W__X_YZ]P
@HWI-EAS443:3:9:418:1577#0/1
ACCTTGGTCAGCAAGTGCTTGTGCATGATGGCATCAATTGG
+HWI-EAS443:3:9:418:1577#0/1
ZN¥aXUSG_a[``]_^Y[Y`YS[^_LP]_WN^W[_^__VJ
@HWI-EAS443:3:100:1392:80#0/1
GGGGGATGTGTTTGCATAAGGGAACCATTCATATCATGT
+HWI-EAS443:3:100:1392:80#0/1
aba`bX_`[aWa_aYG]I]_a^[^^RF¥^]V[[Y_BBBBB
@HWI-EAS443:3:100:572:488#0/1
GGAGTGGTCAGGATATAGCGGGAGTTTTGTTTCAGCATCCA
+HWI-EAS443:3:100:572:488#0/1
ab`aZbb___`aU__a_`]aaa^aR_aaY][JSVPZ^VVB
@HWI-EAS443:3:10:1486:1179#0/1
CTGGGTGTCTTTCAACCAGAATCTGGAATATCAGATAGGA

+HWI-EAS443:3:10:1486:1179#0/1
_bbbbbbbabbbbbbabbbbbbbaabbbbbbb
@HWI-EAS443:3:10:351:1906#0/1
TGCCACTCAATTCAACTTGGGAATCAAATCAGATTGAAA
+HWI-EAS443:3:10:351:1906#0/1
aaaabaabaaaa_aa`a`^^aba`aa``aaaa`_`aaa
@HWI-EAS443:3:10:570:422#0/1
TGAGAGGGAACCTCACCAATAGGACAGCTCATTAGGGTTC
+HWI-EAS443:3:10:570:422#0/1
_PVbX[_Za`_`X__ZNVWZ^HT[_VSPU¥T¥NLNQWV
@HWI-EAS443:3:12:183:1990#0/1
GAATCGGTTCCAAGGGGATGTGTTTGTCCATAAGGGAACA
+HWI-EAS443:3:12:183:1990#0/1
aaaab¥b]GaSaaNOGa^K^USWZ^a]^Sa_[U__G`WTB
@HWI-EAS443:3:13:122:276#0/1
AAATGGTTCTTGCTTTACTGTAATGACCGATGGACCAAGA
+HWI-EAS443:3:13:122:276#0/1
`^¥]_OWb^`^`[aaaZY¥¥T¥a_a_^]_a]aTTSI¥GMF
@HWI-EAS443:3:15:1235:857#0/1
CCCCAGTCCATCCGTTCCGATCCCAAATCATCTCAAACC
+HWI-EAS443:3:15:1235:857#0/1
aba__b_b`bbaba]_abbaaa^abaa_Y]aQa_aa_bSa
@HWI-EAS443:3:16:203:779#0/1
CGGGCTCCTGTCTTTAATGGTTCCATTGGAATGTTTGTCA
+HWI-EAS443:3:16:203:779#0/1
ab^ab`ab]aababbabaaa^aaa_ba__[_`ab_`a_```
@HWI-EAS443:3:16:345:550#0/1
CGCCCCGTAATTTACGGAAACCACTGACTGTCCAGCAGC
+HWI-EAS443:3:16:345:550#0/1
ab`abba_¥¥a`aaaba¥`a`a`aaa^^aaY¥`_`_^^
@HWI-EAS443:3:16:42:1304#0/1
AGCTCCATTAGACGATACTGGACCACAACCTGCCTGTCTTA
+HWI-EAS443:3:16:42:1304#0/1
aTbaba`_]a`_]`_W]RFRMTPR]RBBBBBBBBBBBB
@HWI-EAS443:3:17:1090:667#0/1
CGAGTGGTCAGGATATAGCGGGAGTTTTGTTCCAGCATCCA
+HWI-EAS443:3:17:1090:667#0/1
`aTa^ba_Rab`]_aa^a`_a¥TZFXaaR][FXRQYRRZ
@HWI-EAS443:3:17:1092:554#0/1
TGTGCAGGGATAACTGGCATGGCTCGAATCGACCGTGGGG
+HWI-EAS443:3:17:1092:554#0/1
aaaaa]``aaa`a^aa`_a]`_`¥RKYVS]SSPMDV^_B
@HWI-EAS443:3:18:1705:1024#0/1
ACCCTCTCCATACAACTCAAGATTTGAGTCAGTCGCTTGG
+HWI-EAS443:3:18:1705:1024#0/1
a[a¥`]a_`a]a`¥`^_S[¥^]_Z^YQQU[RLXUUVRR
@HWI-EAS443:3:19:64:1464#0/1
CGCGGGAGTTTTGTTCCAGCATCCAGAACTAACAGGGCTGG
+HWI-EAS443:3:19:64:1464#0/1
ababa]¥`_aaaa]Xaaa`Yaa`a_¥aa_a`_a_]_aZ[Z

@HWI-EAS443:3:19:68:918#0/1
TGCCCATCCACTAACAGGGCAGAGAGGAATTGCCCGCT
+HWI-EAS443:3:19:68:918#0/1
aaabbbbaaabaababb`a^aba`a`aaZa``_a__aa¥a
@HWI-EAS443:3:1:1253:1999#0/1
AGCATCAATTGGCTAACAAATTGGAATTTCTGGCCCAGACA
+HWI-EAS443:3:1:1253:1999#0/1
`]aa`[abaa¥KI]_^T`a_a`[Z`S^aY^YTX^GU`[BB
@HWI-EAS443:3:1:1343:532#0/1
TCGAGCCATGCCAGTTATCCCTGCACACACATGTGATTTA
+HWI-EAS443:3:1:1343:532#0/1
^_b`[YUaba¥_]UaaaVPW`aR`_a[^R`aa]`]_BBB
@HWI-EAS443:3:1:616:269#0/1
TGGACTAGCGGGAGCAGCATATCCTTTTGTGGTGTAAACG
+HWI-EAS443:3:1:616:269#0/1
[abaabaaab`a`a^_¥R]``a[_`aa`_Ya_Va¥Z¥BBB
@HWI-EAS443:3:20:1702:142#0/1
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+HWI-EAS443:3:20:1702:142#0/1
^`babbb`baba_Q¥`aaa`Taa]a^YWa`BBBBBBBBBB
@HWI-EAS443:3:20:1792:1164#0/1
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+HWI-EAS443:3:20:1792:1164#0/1
DNWSRQPTNVWYTWVWTVSSSPUSSUPJNLUNSUHW
@HWI-EAS443:3:20:588:1961#0/1
ATGGGCCAGAAATCCAATTGTTAGCCAATTGATGCCATC
+HWI-EAS443:3:20:588:1961#0/1
H^b[TWZ`XZ[^ZbaaT^ZXXSaa``]a_YR]`MbWR`_^
@HWI-EAS443:3:21:1585:1014#0/1
GGCCCCTAATTATCACTATGAGGAATGCTCCTGTTATCCT
+HWI-EAS443:3:21:1585:1014#0/1
a`[W^`a`aab__P_Za`a____`Y_^_U`^U`_]`_`RO^
@HWI-EAS443:3:22:1055:1609#0/1
TGCGGGAGTTTTGTTTCAGCATCCAGAACTAACAGGGCTGG
+HWI-EAS443:3:22:1055:1609#0/1
_^_Z_]_[a¥`_X]`a^¥a]`]_[¥aaZaaaaYU[^`_`_`
@HWI-EAS443:3:23:1234:224#0/1
ACCCTCTCCATACAACCTCAAGATTTGAGTCAGTCGCTTGG
+HWI-EAS443:3:23:1234:224#0/1
a`[LU`ab`aaa[a`Za_____`__^^]_]`ZX_T]_ZZ
@HWI-EAS443:3:23:1245:697#0/1
CAATTGGAATTTCTGGCCCAGACAATGGGGCAGTGGCTGG
+HWI-EAS443:3:23:1245:697#0/1
a_b_bbb_bbbabaab_a`]^ba`SabbWab_aBBBBBBBB
@HWI-EAS443:3:23:20:82#0/1
CGCCCCGTAATTTACGGAAACCACTGACTGTCCAGCAGC
+HWI-EAS443:3:23:20:82#0/1
a]a`]Z^`^aa^a`Y`a^Y`_]^^X^¥_BBBBBBBBBBBB
@HWI-EAS443:3:24:1193:896#0/1
AGCCGTTGTACTTTAACACAGCCACTGCCCCATTGTCTGG

+HWI-EAS443:3:24:1193:896#0/1
aabb`aa`^X_a^]¥^]^aa`aaa^U`_]`a^VX[WYX
@HWI-EAS443:3:24:1546:350#0/1
CGCCCCTAATTACTACTATGAGGAATGCTCCTGTTATCCT
+HWI-EAS443:3:24:1546:350#0/1
abb_X`_baba`aT_¥a`bbab`aaba¥aa^Zaa`baZ[a
@HWI-EAS443:3:24:555:1325#0/1
AAACTGCCTGTCTTATCATTAGGGCGTGGATTGTCTCCGA
+HWI-EAS443:3:24:555:1325#0/1
abb^b`abb``bbaaa_aa_a_]_aR^aa_]`P^a_a_]`
@HWI-EAS443:3:24:636:1548#0/1
CACCGTTTCTTGAACATAATGCTTTTAGTTCTCCCTATCCA
+HWI-EAS443:3:24:636:1548#0/1
]b_a]^WVa`]XZa^`bba`aaaZV_X^aaV¥a]Ya_Z¥a
@HWI-EAS443:3:25:1380:1726#0/1
TCAAAGCGTCATTACTTATGAAAACAACACTTGGGTAAAC
+HWI-EAS443:3:25:1380:1726#0/1
aaabV^aa[aZ[]a]`_X^_a]b`aZY]a`Q^`_^Sa_]`
@HWI-EAS443:3:25:1518:1364#0/1
CGTTCCCTCTCCATACAACACTCAAGATTTGAGTCAGTCGCT
+HWI-EAS443:3:25:1518:1364#0/1
_`aaa`b¥bbbbbb`aab]^_ab```aab`_``ba^[aR]
@HWI-EAS443:3:25:411:1956#0/1
TGCCACTCAATTCAACTTGGGAATCAAAATCAGATTGAAA
+HWI-EAS443:3:25:411:1956#0/1
aabbbaabaabbbb]`aaaV`a`abbbaa`aa_aa`_aaa
@HWI-EAS443:3:25:45:1749#0/1
CGGGGCCTTGCTAAATGACAAACATTCCAATGGAACCATT
+HWI-EAS443:3:25:45:1749#0/1
aaTXS_bbbbbbb`ba]a```aaaaabbbba]Y`abaa^a
@HWI-EAS443:3:25:536:742#0/1
TTCCTGTCTTTAATGGTTCCATTGGAATGTTTGTCTTTA
+HWI-EAS443:3:25:536:742#0/1
Lab`a`Xa]b¥aSSXbb_a¥aZY¥Va`_^]¥V_aRR[Xb`
@HWI-EAS443:3:25:806:374#0/1
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+HWI-EAS443:3:25:806:374#0/1
a`aaaX`a`_aa`[¥[^_aa`^a]a`_a`_^_a`^_`^`^`
@HWI-EAS443:3:25:853:895#0/1
CGTCGCTTGGTCAGCAAGTGCTTGTCTATGATGGCATCAAT
+HWI-EAS443:3:25:853:895#0/1
`bbbbbabbb`bbbaabbabbbbbbabbab``baabbbb
@HWI-EAS443:3:26:1178:1215#0/1
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+HWI-EAS443:3:26:1178:1215#0/1
`¥aaaa_XY`¥¥[Q`_aTVO¥ZV_[[TP¥¥UFBBBBBBBB
@HWI-EAS443:3:26:44:1376#0/1
TGCCACTCAATTCAACTTGGGAATCAAAATCAGATTGAAA
+HWI-EAS443:3:26:44:1376#0/1
XZ_a^aab_`¥a```aabb`^Y¥aa[M[^`aaaaa^`baa

@HWI-EAS443:3:27:143:471#0/1
AGCAGTGGGATTTTCGGAGACAATCCACGCCCTAATGATA
+HWI-EAS443:3:27:143:471#0/1
_RVTO¥SL^[_UUWPZ]N]^VVZZWQJQZN^¥^^`^^U[B
@HWI-EAS443:3:27:375:509#0/1
CGCGGGAGTTTTGTTCCAGCATCCAGAACTAACAGGGCTGG
+HWI-EAS443:3:27:375:509#0/1
a`Z^[]V]¥Za^¥`a_a^aW_a_¥aaa^¥W¥Z^aT_`
@HWI-EAS443:3:27:53:825#0/1
ACCCTCTCCATACA ACTCAAGATTTGAGTCAGTCGCTTGG
+HWI-EAS443:3:27:53:825#0/1
Z_bb`^a`b^`¥__a__[^`[_^_]aTa_U[a`a¥YGZ
@HWI-EAS443:3:27:832:887#0/1
CGCCCATCCACTAACAGGGCAGAGAGGAATTGCCCGCT
+HWI-EAS443:3:27:832:887#0/1
aaaabaaaaababaaaaaX`^b^`Za`^aaa_^_^Z^`]
@HWI-EAS443:3:28:1485:1231#0/1
AGCAGCAAAGTTGGTGTGCTGATGTTAACATATGTCTGG
+HWI-EAS443:3:28:1485:1231#0/1
`^_ba___¥¥a`U]S`^]aa]aT_a]¥X__Y_I¥`]SY
@HWI-EAS443:3:28:536:1765#0/1
TGCCACTCAATTCAACTTGGGAATCAAATCAGATTGAAA
+HWI-EAS443:3:28:536:1765#0/1
aaa`bbbb]babab_aab`aaaaba_aaaab_baaaaa
@HWI-EAS443:3:29:574:466#0/1
CGCCCGCTAATTTACGGAAACCACTGACTGTCCAGCAGC
+HWI-EAS443:3:29:574:466#0/1
`X)`a_¥S]RUZ^]V¥FJXTR¥OVVPS[[ZV_XBBBBBB
@HWI-EAS443:3:29:850:27#0/1
CGGGCTCCTGTCTTTAATGGTTCATTGGAATGTTTGTCA
+HWI-EAS443:3:29:850:27#0/1
aa^a]X__a^`abaaa_a`]Z^¥]aZ^a]¥`_`[^ZYZ¥
@HWI-EAS443:3:2:1122:850#0/1
AGCCCCTAATTACTACTATGAGGAATGCTCCTGTTATCCT
+HWI-EAS443:3:2:1122:850#0/1
aa]_a_aa[aa_a¥_^aaa`_a_a]`^]a^`_`OZ_
@HWI-EAS443:3:2:1605:196#0/1
GCCCCGCTAGTCCAGATTGTGTTCTCTTTGGGTCGCCCTCT
+HWI-EAS443:3:2:1605:196#0/1
a`[___aZ^[T¥¥_^^_¥^_¥_¥`W_¥`W_SW^YY¥WWWZWY
@HWI-EAS443:3:2:234:174#0/1
TTTCGGAGACAATCCACGCCCTAATGATAAGACAGGCAGG
+HWI-EAS443:3:2:234:174#0/1
a`abbbaba]^R]^_a]^`^T^aa`X]aM¥[BBBBBB
@HWI-EAS443:3:2:431:35#0/1
TGCGGGAGCAGCATATCCTTTTGTGGTGTAAACAGTGACA
+HWI-EAS443:3:2:431:35#0/1
ababbaaa`b]_`a`_`_aaaa_a`YaZa]^Z^_V`^W_
@HWI-EAS443:3:30:156:483#0/1
GCCTGTTATCCTGATTCTAGTGAAATCACATGTGTGTGCA

+HWI-EAS443:3:30:156:483#0/1
`bbab`abababaabab`ba_aaa^aa`b_aa`a_`]a]`
@HWI-EAS443:3:30:228:1223#0/1
CTCCCTTTTCTATTCTGAAGATCTTGTATGAGGCCTGTCC
+HWI-EAS443:3:30:228:1223#0/1
a]abb`abaaa`]`baabbaaabaaa_aa`a`a`a`_`a
@HWI-EAS443:3:31:1258:1380#0/1
TGCGGGAGCAGCATATCCTTTTGTGGTGTAAACAGTGACA
+HWI-EAS443:3:31:1258:1380#0/1
aba_b_`]aaba`aa`_bbbbZYaaUb`aa_aaaZa``^
@HWI-EAS443:3:31:1270:1285#0/1
CGTTCCCTCTCCATACAACCTCAAGATTTGAGTCAGTCGCT
+HWI-EAS443:3:31:1270:1285#0/1
aa[[_^U_^UX]^_V¥^[[_Y^X_U[^AT[^P[^WWTOWX
@HWI-EAS443:3:31:1792:938#0/1
NGGACAGACAATAACTTCTCAATAAAGCAAGATATCGTAG
+HWI-EAS443:3:31:1792:938#0/1
DM[WW[[W[[YZYY[Y[V[Y[[[ZW[[UY[[YY[[Y[[Y[[
@HWI-EAS443:3:31:855:1649#0/1
CGGGCTCCTGTCTTTAATGGTTCCATTGGAATGTTTGTCA
+HWI-EAS443:3:31:855:1649#0/1
¥aaa`b¥ba[_¥a_abb`_U`__bbaab`abaaaabZ]a_
@HWI-EAS443:3:32:1235:144#0/1
TGGTGTCTTTCAACCAGAATCTGGAATATCAGATAGGATA
+HWI-EAS443:3:32:1235:144#0/1
_b`_a`]^_aZ`[_`__a`_aZaa^^_^^]LFRZ_¥Y[XU_
@HWI-EAS443:3:33:1313:1217#0/1
CGGCTCCTGTCTTTAATGGTTCCATTGGAATGTTTGTCA
+HWI-EAS443:3:33:1313:1217#0/1
H_ab_b^¥_ZbZ]bba¥_¥]`__`^T``¥bbVU_bSJDV]
@HWI-EAS443:3:33:548:1500#0/1
CTCCTATTGGTGAAGTCCCTCTCCATACAACCTCAAGATT
+HWI-EAS443:3:33:548:1500#0/1
a`bb¥X`a]X_aba]`abaa`aaaa_a`aaaV__]`Y^
@HWI-EAS443:3:33:951:899#0/1
ATCCCAAATCATCTCAAACCGTTTCTTGAACCTAATGCTC
+HWI-EAS443:3:33:951:899#0/1
TQ]]YQX¥b```aZYYWVa_a^a_aa`^_WUMWR`YHG¥G
@HWI-EAS443:3:34:885:243#0/1
TGTCGCTTGGTCAGCAAGTGCTTGTGCATGATGGCATCAAT
+HWI-EAS443:3:34:885:243#0/1
a¥R_bba[Q_Y__¥_]Z`__Z[a]LX][`TQ[^ZTLSPQB
@HWI-EAS443:3:35:1666:1471#0/1
GGTCTTTACTGTATATAGCCCATCCACTAACAGGGCAGAG
+HWI-EAS443:3:35:1666:1471#0/1
__PLXVV]_T_¥`a`¥^a]¥XY[¥Z^^VXZ¥¥VXZSY_U]
@HWI-EAS443:3:35:298:765#0/1
CGCCCCTAATTATCACTATGAGGAATGCTCCTGTTATCCT
+HWI-EAS443:3:35:298:765#0/1
a_NZ`aZUY`]¥[P[¥S^¥^YYWZ¥WZXOY¥T]LT[PZNR

@HWI-EAS443:3:36:1273:1942#0/1
AATGTGTAATGGTTCTTGCTTTACTGTAATGACCGATGG
+HWI-EAS443:3:36:1273:1942#0/1
KbaXTZ¥bbaab_I`aa_babb`b¥abZ__`ba¥_[a^__
@HWI-EAS443:3:36:383:633#0/1
TGCCCATCCACTAACAGGGCAGAGAGAGGAATTGCCCGCT
+HWI-EAS443:3:36:383:633#0/1
a^`b^`^_b`_]U```a`a`a¥]X_]X``[_`a^[_^U
@HWI-EAS443:3:37:1019:1656#0/1
AGCCCCTAATTATCACTATGAGGAATGCTCCTGTTATCCT
+HWI-EAS443:3:37:1019:1656#0/1
ab_bababXbbbbbbaaaaa¥_`aaaa`b[D^aaaa__b]_
@HWI-EAS443:3:37:1526:594#0/1
CGGTGTAAACAGTGACACTGTGGGTTGGTCTTGCCAGAC
+HWI-EAS443:3:37:1526:594#0/1
`bb`Z_ZWL¥_b¥ba`bbba`bbb`]b¥[Sa``b_Z``YL
@HWI-EAS443:3:38:1132:1481#0/1
GTGGGATTTTCGGAGACAATCCACGCCCTAATGATAAGAG
+HWI-EAS443:3:38:1132:1481#0/1
a[`b^S^aa`XR¥K`a^`[aYZN_]ZV^YWVZU^[^U`B
@HWI-EAS443:3:38:1773:1050#0/1
AGCCCCTAATTATCACTATGAGGAATGCTCCTGTTATCCT
+HWI-EAS443:3:38:1773:1050#0/1
`¥ZYbab[K^b``]Yab¥bV¥_]_a]aUaGSZ]Y_[_GNG
@HWI-EAS443:3:38:610:1581#0/1
TTCCTGTCTTTAATGGTTCCATTGGAATGTTTGTCAATTA
+HWI-EAS443:3:38:610:1581#0/1
aaaaaa]aa`aaa`_^]a`^^ZY_]Y_Y^[[¥Z^^]^X
@HWI-EAS443:3:38:70:1855#0/1
CGTTCCTCTCCATACAACACTCAAGATTTGAGTCAGTCGCT
+HWI-EAS443:3:38:70:1855#0/1
aa`abababaaaa`baba`_a``]_¥_^[_Taa]U_ZZU
@HWI-EAS443:3:39:13:549#0/1
CGCGGGAGCAGCATATCCTTTTGTGGTGTAAACAGTGACA
+HWI-EAS443:3:39:13:549#0/1
a]H`aYN`a^a`[`W]____`_]ZTXXVZ^SGRRV`U]URZ
@HWI-EAS443:3:39:792:1011#0/1
TGCGGGAGTTTTGTTTCAGCATCCAGAACTAACAGGGCTGG
+HWI-EAS443:3:39:792:1011#0/1
`ba`Z`[[HVa`a^ab`a_aaaa`aaaa]YS_^`_a[_]
@HWI-EAS443:3:39:801:80#0/1
TGGCCTCATACAAGATCTTCAGAATAGAAAAGGAAAGAT
+HWI-EAS443:3:39:801:80#0/1
`^ab^]_^aaa^^_^]aaa_ZaS¥``aYY¥Z__`T¥X`_]`
@HWI-EAS443:3:3:1229:1104#0/1
CGTGCATGTGTAATGGTTCTTGCTTTACTGTAATGACCG
+HWI-EAS443:3:3:1229:1104#0/1
aaY_``bb`b`a`_bba[b`aab^_a]^S`aa``_^aTL_
@HWI-EAS443:3:3:1459:1240#0/1
GTAGGGTTTCGATATGGGCTCCTGTCTTTAATGGTTCCATT

+HWI-EAS443:3:3:1459:1240#0/1
aYU]WYR`Ya____]^^^[X]¥VS`^W^X¥X¥XYWYVZX
@HWI-EAS443:3:3:1565:902#0/1
AGCCCCTTGAGTCAAGAAGAAGTTCTGCATTCCAAGGGG
+HWI-EAS443:3:3:1565:902#0/1
UR`baVZabbb]b```ZabbbbbbbbaY_aabUaaaaaaaa
@HWI-EAS443:3:40:1018:289#0/1
TATATGTTAACATCAGCAACACCAACTTTGCTGCTGGACA
+HWI-EAS443:3:40:1018:289#0/1
V_bbbbabbbbbbbabbbbbabbbb_aabbb]bbbaba`]]
@HWI-EAS443:3:40:1501:1392#0/1
AGCGACCCAAAGAGAACAATCTGGACTAGCGGGAGCAG
+HWI-EAS443:3:40:1501:1392#0/1
a`a]bb])a^^```V_Ua`aW[```a^V`a`_`aaZO[LLV
@HWI-EAS443:3:42:240:1081#0/1
TCGGGAGCAGCATATCCTTTTGTGGTGTAAACAGTGACAC
+HWI-EAS443:3:42:240:1081#0/1
abb_WZZaaaZYWaa]_]baaaTQ_NP`_WL`aaVaaaa
@HWI-EAS443:3:42:79:1544#0/1
GCCGTTTCTTGAACATAATGCTTTTAGTTCTCCCTATCCAA
+HWI-EAS443:3:42:79:1544#0/1
aba__bab^abbbab_^aaabaaaa___^`a_a`abbab`
@HWI-EAS443:3:42:970:761#0/1
CGCCCCGTAATTTACGGAACCACTGACTGTCCAGCAGC
+HWI-EAS443:3:42:970:761#0/1
ab^]aa^a_aaaa[aaa`aa_a`^_aa¥a_¥_a_¥Y¥¥Z
@HWI-EAS443:3:43:1066:424#0/1
TGCCCCTAATTATCACTATGAGGAATGCTCCTGTTATCCN
+HWI-EAS443:3:43:1066:424#0/1
abba_abb`babaa_aaaaaa`aaa_``a`a`aa_UD
@HWI-EAS443:3:43:1403:1151#0/1
TGCGGGAGTTTTGTTTCAGCATCCAGAACTAACAGGGCTGG
+HWI-EAS443:3:43:1403:1151#0/1
^__a```_aba]Z`¥_U¥abY[_aa]M]aa^¥aUUZ`a`
@HWI-EAS443:3:43:623:685#0/1
CTGGGCTCCTGTCTTTAATGGTTCCATTGGAATGTTTGTC
+HWI-EAS443:3:43:623:685#0/1
aU`__`])aa_a^a^^Z¥^^¥Y__`TPXa`a_]V__aWU
@HWI-EAS443:3:43:759:1207#0/1
TTTCATATCATGCTCCCCCTTGAATGCAGAACCTTCTTC
+HWI-EAS443:3:43:759:1207#0/1
`abaabb`aa`a`aa`aaaa`aa__a`_^`_`_aa]
@HWI-EAS443:3:44:1658:1607#0/1
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+HWI-EAS443:3:44:1658:1607#0/1
`V_XXYa`¥aXNY[QSV[W`TZ¥HOSL[PT]UWSW¥SWUH
@HWI-EAS443:3:45:460:602#0/1
CGGTTCCATTGGAATGTTTGTCATTTAGCAAGGCCCTTG
+HWI-EAS443:3:45:460:602#0/1
aaaab_abbbbbbbba`bbbaaababa`abaaaab`aaa

@HWI-EAS443:3:46:1691:198#0/1
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+HWI-EAS443:3:46:1691:198#0/1
aa__bY]`aWW_SaHTP`Q_^X[_[_¥MWRHS]S¥¥LQWT
@HWI-EAS443:3:47:1091:1833#0/1
TCAGAACCTTCTTCTTGAAGGGCCTTGCTAAATGA
+HWI-EAS443:3:47:1091:1833#0/1
IVT_PX[aS[`Z`X`¥bWRXX0[aaLXPWbXX_^`aa`^]
@HWI-EAS443:3:47:1202:1222#0/1
TGCCCATCCACTAACAGGGCAGAGAGGAATTGCCCGCT
+HWI-EAS443:3:47:1202:1222#0/1
abaaaba`aa_a`aa_a^a`¥_¥a¥a^__¥`__`Y^S]T^
@HWI-EAS443:3:48:1187:87#0/1
TTGCCGTTGTACTTTAACACAGCCACTGCCCCATTGTCTG
+HWI-EAS443:3:48:1187:87#0/1
aaaa[a`aa_`^`a`aUa]`_[]_^]YX]]WX^][W]Y^
@HWI-EAS443:3:48:1585:111#0/1
CGATACTGGACCACAACACTGCCTGTCTTATCATTAGGGCGG
+HWI-EAS443:3:48:1585:111#0/1
ab`baba`X[¥^a_QZ`a`PZaUa]`¥a_R_YUSZ__ZD
@HWI-EAS443:3:49:1237:348#0/1
TGCGGGAGTTTTGTTTCAGCATCCAGAACTAACAGGGCTGG
+HWI-EAS443:3:49:1237:348#0/1
ab`]^b[bZaaaa_a¥_a__`___a]a¥aa`}`__YZ^`a
@HWI-EAS443:3:51:1178:1753#0/1
CGCTCCATTAGACGATACTGGACCACAACACTGCCTGTCTTA
+HWI-EAS443:3:51:1178:1753#0/1
aa`aa[aabaaa]a`¥aL[]`VLQ[U_`V^Y[^^^YY¥P
@HWI-EAS443:3:51:527:426#0/1
CCCAAATCATCTCAAACCGTTTCTTGAACCTAATGCTTTA
+HWI-EAS443:3:51:527:426#0/1
`¥`^HY_aabb`ZW]_[_]Yb`VY¥a^Ta`^^`b_a¥_S
@HWI-EAS443:3:51:803:747#0/1
GCCGCTAATTTACGGAAACCACTGACTGTCCAGCAGCAA
+HWI-EAS443:3:51:803:747#0/1
a[`a``¥Xaba¥`][`[a_ZZ]^YSN^ZRYVVIUSOYFJT
@HWI-EAS443:3:52:1685:1317#0/1
TGTGCTTGTATGATGGCATCAATTGGCTAACAATTGGAA
+HWI-EAS443:3:52:1685:1317#0/1
aa`a]^a`]Ua_a`a^V_`^U`__`]MPV_^V]V¥_UPRY
@HWI-EAS443:3:52:298:135#0/1
TGGGTTCCGATATGGGCTCCTGTCTTTAATGGTTCCATTGG
+HWI-EAS443:3:52:298:135#0/1
ab¥]V`Ya`YXZ`a`[`^^]`[Y```WT``¥S]NZQ]]^Z
@HWI-EAS443:3:52:461:1986#0/1
GCTGCCTGTCTTATCATTAGGGCGTGGATTGTCTCCGAAA
+HWI-EAS443:3:52:461:1986#0/1
aaU¥aaa][aaaYb¥V_aaI`_a^_ON`_`^W^^Z[^]Z¥
@HWI-EAS443:3:53:284:1778#0/1
CGCTGTGTTAAAGTACAACGGCATAATAACAGACACTATC

+HWI-EAS443:3:53:284:1778#0/1
aabbbbbbbba`abbb`aab`bbabababbabbbbaaaa
@HWI-EAS443:3:55:542:776#0/1
GGCCCCGTAATTTACGGAAACCACTGACTGTCCAGCAGC
+HWI-EAS443:3:55:542:776#0/1
abba___aaaaa^`ab_`Z]``_`a`¥aaP`XGY^]^[
@HWI-EAS443:3:56:293:141#0/1
CCAGACATATGTTAACATCAGCAACACCAACTTTGCTGCT
+HWI-EAS443:3:56:293:141#0/1
aaaaaaabbbbaaaa`aaaa`aa_a`a`_aaa`^``]_
@HWI-EAS443:3:56:459:1058#0/1
TGTGCTTGTCATGATGGCATCAATTGGCTAACAAATTGGAA
+HWI-EAS443:3:56:459:1058#0/1
Z¥^`abY[```aa¥^a[a``aaa¥Xa^Z¥^``_¥]_
@HWI-EAS443:3:56:518:122#0/1
GGCATGTGTAATGGTTCTTGCTTTACTGTAATGACCGAT
+HWI-EAS443:3:56:518:122#0/1
aa`aaaa^0Za[^aZZ]a_^Y]_`^Z^a]_¥_`¥NX_^Z
@HWI-EAS443:3:56:530:642#0/1
GGGGCTCCTGTCTTTAATGGTTCCATTGGAATGTTTGTCA
+HWI-EAS443:3:56:530:642#0/1
a]```aa`a_aaaa__]]]``_^^____X^_]`aY^ZZ
@HWI-EAS443:3:58:18:973#0/1
TGTGTCCTGTTTACACCACAAAAGGATATGCTGCTCCCG
+HWI-EAS443:3:58:18:973#0/1
T^]____Za_Uaa_X_a[X¥^T_a_TXT`¥`^XWRPMOZ`
@HWI-EAS443:3:59:1197:1272#0/1
AGCCCCTAATTATCACTATGAGGAATGCTCCTGTTATCCT
+HWI-EAS443:3:59:1197:1272#0/1
ab___`abbbaabaabaaaa^aaaba``aba^a_`ZV[WX
@HWI-EAS443:3:59:1555:832#0/1
CGTGGTGTAACAGTGACACTGTGGGTTGGTCTTGCCAG
+HWI-EAS443:3:59:1555:832#0/1
aba^`abbababbbabbaaaba`bbaabba¥aaaSM`__
@HWI-EAS443:3:59:661:1082#0/1
GCAGGGATAACTGGCATGGCTCGAATCGACCGTGGGTGTG
+HWI-EAS443:3:59:661:1082#0/1
a`OX_XZ]WZ`^YTQQ]XWXVBBBBBBBBBBBBBBBBBB
@HWI-EAS443:3:59:861:1096#0/1
CCCCTCTCCATACTCAAGATTTGAGTCAGTCGCTTGG
+HWI-EAS443:3:59:861:1096#0/1
ababaababba`bbabaaababbaa`aba[``_aUuaL_
@HWI-EAS443:3:5:1313:115#0/1
CGGGCCCTTGCTAAATGACAAACATTCCAATGGAACCATT
+HWI-EAS443:3:5:1313:115#0/1
__Z_]bKabb]_aa¥`abababa`¥^W`Uaab_`bYUaab
@HWI-EAS443:3:5:329:692#0/1
GGCTGTGTTAAAGTACAACGGCATAATAACAGACACTATA
+HWI-EAS443:3:5:329:692#0/1
`ba^b_b¥aaab`]`^^`baaa^aaa¥aaba`_``^aYB

@HWI-EAS443:3:5:579:474#0/1
ACTCCTGTCTTTAATGGTTCCATTGGAATGTTTGTTCATTT
+HWI-EAS443:3:5:579:474#0/1
aabaab`aabaaaa`a`_a`_a`_a`_a`_aa^Z^^a_
@HWI-EAS443:3:60:372:21#0/1
CCAGACATATGTTAACATCAGCAACCAACTTTGCTGCT
+HWI-EAS443:3:60:372:21#0/1
abbba`^ba^abbbaaabaa`aaaaaG^```aaaa_a`_
@HWI-EAS443:3:61:1789:580#0/1
CGCCCCGTAATTTACGAAACCACTGACTGTCCAGCAGC
+HWI-EAS443:3:61:1789:580#0/1
aabbbaa`abbbababa^a___aaaa_^__ZU^Y[U[XN
@HWI-EAS443:3:61:968:1520#0/1
TGCCCCGTAATTTACGAAACCACTGACTGTCCAGCAGA
+HWI-EAS443:3:61:968:1520#0/1
aaaa``aaaaa`Z`_a`aaaa`a`_`^`_`T`[USVVG
@HWI-EAS443:3:62:1138:1213#0/1
TACCAGAATCTGGAATATCAGATAGGATACATATGCAGTG
+HWI-EAS443:3:62:1138:1213#0/1
aaabab`_a`bbaabbbbaaaa`a`_a`[a`aZQ[_Ya
@HWI-EAS443:3:62:1502:1534#0/1
GCCCAAGTTGAATTGAGTGGCTAATCCATATTGAGATTAT
+HWI-EAS443:3:62:1502:1534#0/1
`[^`bbaabb`bbabb`abbbb`M`^`XY[a`YaWVa`_`
@HWI-EAS443:3:62:471:1838#0/1
CTTTAACACAGCCACTGCCCCATTGTCTGGGCCAGAAATC
+HWI-EAS443:3:62:471:1838#0/1
_b`a`b`_Yb`]]UV_aaZHYaaYRNGQVWL[`¥`]HZ[BB
@HWI-EAS443:3:62:698:121#0/1
CGGGTTGGTCTTGCCAGACGGTGCTGAGTTGCCATTTAC
+HWI-EAS443:3:62:698:121#0/1
abbb`bbbbbbabbaa``abaRa`^aaaX`_[]_]`^`¥
@HWI-EAS443:3:62:965:1036#0/1
TGCGGGAGTTTTGTTCCAGCATCCAGAACTAACAGGGCTGG
+HWI-EAS443:3:62:965:1036#0/1
VWX[ZV___[[a_WW`Za_R]]Z`[D[WOT]]ZX_U__Z`
@HWI-EAS443:3:63:120:1795#0/1
TGACCGTGGGTGTCTTTCAACCAGAATCTGGAATATCAGA
+HWI-EAS443:3:63:120:1795#0/1
`^`a]KQX0^TZWa`aaa^]a_POTXRY_S SX`__X`00X
@HWI-EAS443:3:63:1418:162#0/1
GGGCAGTTGTGGTCCAGTATCGTCTAATGGAGCAAATGGA
+HWI-EAS443:3:63:1418:162#0/1
abbaab_ab`ba`a][`U`a_a`_`^`^`a`S``^]a`a[
@HWI-EAS443:3:63:156:658#0/1
TGGCCCCTTGAGTCAAGAAGAAGTTCTGCATTCCAAGGG
+HWI-EAS443:3:63:156:658#0/1
ababaabaaa`_a`_`]U[_`a`V^aa`__``````__`__`
@HWI-EAS443:3:63:699:1758#0/1
AGGGTGTCTTTCAACCAGAATCTGGAATATCAGATAGGAT

@HWI-EAS443:3:69:373:295#0/1
ATCAGAGGGCGACCCAAAGAGAACAATCTGGACTAGCC
+HWI-EAS443:3:69:373:295#0/1
_^YZ_ab¥aaaa^`baaY`_aaaa_aaaaa_aa_]_____

@HWI-EAS443:3:69:48:1336#0/1
CGTTCAAGAAACGGTTTTGAGATGATTTGGGATCCGAACG
+HWI-EAS443:3:69:48:1336#0/1
H¥aab_b]`bbaaa[ba`¥SZ_bb`_¥`^^[a^ZSN¥`a`

@HWI-EAS443:3:69:495:451#0/1
TGCAGGGATAACTGGCATGGCTCGAATCGACCGTGGGTGG
+HWI-EAS443:3:69:495:451#0/1
a`aaabaaaaaaaaaaaa`aaa_]QHKLUYVHZGTR`[BBB

@HWI-EAS443:3:69:720:1396#0/1
CCAAGGTCTTATACAATCCAGCCCTGTTAGTTCTGGATGC
+HWI-EAS443:3:69:720:1396#0/1
X`__`aU`M`¥]`baZX`[VS_YaYYXN][^G_^ZGJH¥b

@HWI-EAS443:3:6:640:147#0/1
AGCCGTTGTACTTTAACACAGCCACTGCCCCATTGTCTGG
+HWI-EAS443:3:6:640:147#0/1
ababb_aa__Y]aa_a`N```_¥[^_¥_Y]W_¥W¥¥BBB

@HWI-EAS443:3:70:1239:1971#0/1
TGGGCGACCCAAAGAGAACAATCTGGACTAGCGGGAGC
+HWI-EAS443:3:70:1239:1971#0/1
Kbb[¥`_`babbaVbbbaabba[b[aaaMbaaa^RU^aR[N

@HWI-EAS443:3:70:1721:1738#0/1
GGCATGTGTAATGGTTCTTGCTTTACTGTAATGACCGAT
+HWI-EAS443:3:70:1721:1738#0/1
^babbb_babaabbaabaababb`babb_bbaaa_aaaa

@HWI-EAS443:3:70:173:984#0/1
GCGGTTTTGAGATGATTTGGGATCCGAACGGATGGACTGG
+HWI-EAS443:3:70:173:984#0/1
``bb`bbaa^a`a`Z`ba]__¥]baa_]^aa__aa¥[V]]

@HWI-EAS443:3:71:643:1585#0/1
CGTGTCTCAATATATTGTTTCTCCAACCTTGATAGTGT
+HWI-EAS443:3:71:643:1585#0/1
a_]a_[b¥a¥^`_`a_aY`_a[``__^`_`__¥[¥][W[V

@HWI-EAS443:3:71:740:872#0/1
AGCCCATCCACTAACAGGGCAGAGAGGAATTGCCCGCA
+HWI-EAS443:3:71:740:872#0/1
aa```a^a^a`aaaX`Z`]Y[a`^_aaa`]aZ`aZU¥^¥¥

@HWI-EAS443:3:71:904:603#0/1
GGTCCCAGTCCATCCGTTCCGATCCCAAATCATCTCAAAA
+HWI-EAS443:3:71:904:603#0/1
_]Za]]`YPW^]YV^aUJOGOVQKTZ[DUYUNVH]YLSZ[]

@HWI-EAS443:3:72:1465:2046#0/1
NGTTATTATGCCGTTGTACTTTAACACAGCCACTGCCCCA
+HWI-EAS443:3:72:1465:2046#0/1
DOPRRPSURSUNQRRRTTNSULQUUUYWUBBBBBBBBBBBB

@HWI-EAS443:3:72:1491:466#0/1
ATCTGTCCCAGTCCATCCGTTCCGATCCCAAATCATCTCA

+HWI-EAS443:3:72:1491:466#0/1
aa]aaaaaaaaV¥`aa_]`_[YTTZ¥WZ¥W]]¥Z`V^^Z_
@HWI-EAS443:3:72:424:1068#0/1
NAGCCACTCAATTCAACTTGGGAATCAAATCAGATTGAA
+HWI-EAS443:3:72:424:1068#0/1
DKZZXYZYTMWXXZZZZZZXWWZZZXYYZZZZXXWZZZ
@HWI-EAS443:3:72:53:1346#0/1
TGCCCATCCACTAACAGGGCAGAGAGGAATTGCCCGCT
+HWI-EAS443:3:72:53:1346#0/1
]_bbbb_`¥[^ab```_YZ`¥S]T`RXS_a[`¥a]_`Y
@HWI-EAS443:3:72:844:1561#0/1
TGGGGCCTTGCTAAATGACAAACATTCCAATGGAACCATT
+HWI-EAS443:3:72:844:1561#0/1
a_V_bbbaabba_aabbbb`bbbabaaababbaabaaaa`
@HWI-EAS443:3:73:1304:937#0/1
GGCCCCGTAATTTACGGAAACCACTGACTGTCCAGCAGC
+HWI-EAS443:3:73:1304:937#0/1
``bbbbbabaabaa`a``aaaabb`aaaabX`¥WZYZSRZ
@HWI-EAS443:3:73:1792:1305#0/1
NTCAAGAAGAAGGTTCTGCATTCCAAGGGGAGCATGATA
+HWI-EAS443:3:73:1792:1305#0/1
DMTLURNOWRSUXVWYVPTQTVUWWNJOPSRNUVJMRTWW
@HWI-EAS443:3:75:219:144#0/1
GAGGCCTCATACAAGATCTTCAGAATAGAAAAGGGAAAGA
+HWI-EAS443:3:75:219:144#0/1
HYaaa`b``bbabbbbabbbbbbb`abba`babbb`bbbb
@HWI-EAS443:3:76:1234:790#0/1
CTCAGGATATAGCGGGAGTTTTGTTTCAGCATCCAGAACTA
+HWI-EAS443:3:76:1234:790#0/1
a_abaabbbba```ba`Rabbb`baab_aa¥abbaaZaa
@HWI-EAS443:3:76:90:876#0/1
CCAGACATATGTTAACATCAGCAACACCAACTTTGCTGCT
+HWI-EAS443:3:76:90:876#0/1
abb`Z¥Y`_aa[_aT¥^aaaa`S[_a_aba_`X0`^Z^__
@HWI-EAS443:3:77:1359:1706#0/1
ATCCCTCTCCATACAACACTCAAGATTTGAGTCAGTCGCTTG
+HWI-EAS443:3:77:1359:1706#0/1
Z¥a`W_baa¥a_____N_UKb`ba^X_a_GU_bSQ_a_QT
@HWI-EAS443:3:77:762:1071#0/1
TGCGGGAGTTTTGTTTCAGCATCCAGAACTAACAGGGCTGG
+HWI-EAS443:3:77:762:1071#0/1
`baa``)`aab`b[a[ZQ]a`]bb````a[_^`aRW^_a[
@HWI-EAS443:3:78:1099:1359#0/1
GGTCGCTTGTCAGCAAGTGCTTGTCATGATGGCATCAAT
+HWI-EAS443:3:78:1099:1359#0/1
]¥[ba``YU]a^U^Z_`aa`ZR¥[_a`Z^abaQ¥```[]
@HWI-EAS443:3:7:111:1157#0/1
GTCCTATCTGATATTCCAGATTCTGGTTGAAAGACACCCA
+HWI-EAS443:3:7:111:1157#0/1
a`aa_aa_`]X^`a_`Q¥`aa[^a`a^aa_a`aa_`_`^Y`

@HWI-EAS443:3:7:1319:471#0/1
GGTGCTTGTGCATGATGGCATCAATTGGCTAACCAATTGGAA
+HWI-EAS443:3:7:1319:471#0/1
^N]_RX`¥K^Xa`_Sa]_____a_UUTPQV]^R[___]aS^B
@HWI-EAS443:3:7:737:497#0/1
AGCTTGGTCAGCAAGTGTTCATGATGGCATCAATTGG
+HWI-EAS443:3:7:737:497#0/1
Za]YY`¥S_¥`]^^^K[`]^bYTNVaJRU_`^_____^]`a
@HWI-EAS443:3:7:882:513#0/1
TGGGGCCTTGCTAAATGACAAACATTCCAATGGAACCATT
+HWI-EAS443:3:7:882:513#0/1
`baaa[abab`bba`aaa`bb__aaaa`a`aa`_aY_aa`
@HWI-EAS443:3:80:104:882#0/1
TGCGGGCAATTCCTCTCTCTGCCCTGTTAGTGGATGGGCT
+HWI-EAS443:3:80:104:882#0/1
]bba¥]b`b`]aaaaaaaaabaa]WZ_```a`aa`aa]ZJQ
@HWI-EAS443:3:80:1300:595#0/1
ATTTACGGAAACCACTGACTGTCCAGCAGCAAAGTTGGC
+HWI-EAS443:3:80:1300:595#0/1
abba_aaaa^ab^_a_aaa`aa¥¥_Y____`]Z[X`X`_[G
@HWI-EAS443:3:80:1568:573#0/1
TCAAAGCGTCATTACTTATGAAAACAACACTTGGGTAAAC
+HWI-EAS443:3:80:1568:573#0/1
a``aaa`a^T``a_¥aba_a_aa]S`_^`Wa^aU^S_a^V
@HWI-EAS443:3:81:257:1500#0/1
TCCGTTTCTTGAACCTAATGCTTTTAGTTCTCCCTATCCAA
+HWI-EAS443:3:81:257:1500#0/1
`baYYbaba[_Y`aa[^Za_[]aaa][¥aabaa`U_aa^`
@HWI-EAS443:3:82:1130:369#0/1
GGTGTCTTTCAACCAGAATCTGGAATATCAGATAGGATAG
+HWI-EAS443:3:82:1130:369#0/1
a`]¥TN_`^NO¥X[[bP[___SJ^aa`P`_ZSTaOR[G[KD
@HWI-EAS443:3:82:379:1644#0/1
GGCGGGAGCAGCATATCCTTTTGTGGTGTAAACAGTGACA
+HWI-EAS443:3:82:379:1644#0/1
abbaaa`a¥P¥TJ]a`a`aaa]S[^]¥]^aa`aa_S``_`
@HWI-EAS443:3:82:429:640#0/1
CGGGGCCTTGCTAAATGACAAACATTCCAATGGAACCATT
+HWI-EAS443:3:82:429:640#0/1
a_T^aababba`aa]``]ab^]aaaXa_`X`a_`a[___`_
@HWI-EAS443:3:82:914:1877#0/1
TGGGCGACCCAAAGAGAACAATCTGGACTAGCGGGAGC
+HWI-EAS443:3:82:914:1877#0/1
`VQ_`a_b`¥^a`_`_ab`ba_`^`^aa`b``^X``bVaa
@HWI-EAS443:3:83:220:168#0/1
TGCCCATCCACTAACAGGGCAGAGAGGAATTGCCCGCT
+HWI-EAS443:3:83:220:168#0/1
_``b`Z^b]Z_abbaaaaa`aaaY_Y``aU][aZ^^`_^
@HWI-EAS443:3:83:87:1907#0/1
CGCCCCTAATTATCACTATGAGGAATGCTCCTGTTATCCT

+HWI-EAS443:3:83:87:1907#0/1
`Wa` [¥L¥R]SGM`UZQXSY]UUQUNDYW^WWUTSUUY[N
@HWI-EAS443:3:84:1497:1676#0/1
GCTCCTGTCTTTAATGGTTCATTGGAATGTTTGTCTTG
+HWI-EAS443:3:84:1497:1676#0/1
aYOQT]NJ[[ZNKDOUXUNTQNNXYBBBBBBBBBBBB
@HWI-EAS443:3:84:697:2000#0/1
AGCATGTGTAATGGTTCCTTACTGTAATGACCGAT
+HWI-EAS443:3:84:697:2000#0/1
^W¥a[`^b__a_b]WG_aa¥aTaa]_PaaYa``aaaS^] ^
@HWI-EAS443:3:85:1577:912#0/1
TGCCACTCAATTCAACTTGGGAATCAAAATCAGATTGAAA
+HWI-EAS443:3:85:1577:912#0/1
aaaabaaa[Q`a][¥aa^a^^_aa`[``]¥_`a_aaa```]
@HWI-EAS443:3:85:421:125#0/1
TGCTGTCTATTGGTGAAGTTCCTCTCCATACAACCTCAA
+HWI-EAS443:3:85:421:125#0/1
^aabbbbaababbaaaaaabba_bbbbaaaabaaa`aaa_
@HWI-EAS443:3:86:133:436#0/1
CGGGTTCGATATGGGCTCCTGTCTTTAATGGTTCATTGG
+HWI-EAS443:3:86:133:436#0/1
Xab`Vbbabbbbbb_ba`^aabbbbaaaababb`bb`
@HWI-EAS443:3:87:1222:640#0/1
CCCCTCTCCATACAACCTCAAGATTTGAGTCAGTCGCTTGG
+HWI-EAS443:3:87:1222:640#0/1
`ba`aaa_ababaaaaaa]aaa`aaa_a¥``^[aU_¥`Y
@HWI-EAS443:3:87:1466:428#0/1
GATCATGACAAGCACTTGCTGACCAAGCGACTGACTCAAA
+HWI-EAS443:3:87:1466:428#0/1
GYb`¥`bbabbbba[bbabb]bKba¥¥¥_R^]bI^aWba
@HWI-EAS443:3:87:149:582#0/1
CGCGGGAGCAGCATATCCTTTTGTGGTGTAAACAGTGACA
+HWI-EAS443:3:87:149:582#0/1
aabb^aaaaa`aaa`aa]a__`a_^U[aa`X`a``¥`^_Z
@HWI-EAS443:3:87:765:387#0/1
GAAAGACACCCACGGTCGATTCGAGCCATGCCAGTTATCA
+HWI-EAS443:3:87:765:387#0/1
`baZ`baaba`a^^XI^]PLZTq]WIV^YaZKV`GXY`JF
@HWI-EAS443:3:88:513:715#0/1
CGCCCCGTAATTTACGGAAACCACTGACTGTCCAGCAGC
+HWI-EAS443:3:88:513:715#0/1
`bbbabbb`abababaabZ]aabbabaa`aa]]aaa^¥a`
@HWI-EAS443:3:89:1250:618#0/1
TGCTCCCCTAGTCCAGATTGTGTTCTCTTTGGGTCGCCG
+HWI-EAS443:3:89:1250:618#0/1
V¥_U¥Z_¥`^X`T_aSaa]^]VbSaX_¥¥`_T`]VUGVFJ
@HWI-EAS443:3:89:62:157#0/1
ACCCTCTCCATACAACCTCAAGATTTGAGTCAGTCGCTTGG
+HWI-EAS443:3:89:62:157#0/1
^`R_ab`aaaaa]WT[`a[¥]_`_`a][^]`_PY^_U^[U

@HWI-EAS443:3:89:759:1673#0/1
GGCCCCGTAATTTACGGAAACCACTGACTGTCCAGCAGC
+HWI-EAS443:3:89:759:1673#0/1
Xbbb`abb`]_bbbb`^]``bbbb`abbbb`^a_^Ya`]
@HWI-EAS443:3:89:788:555#0/1
CAACTGCCTGTCTTATCATTAGGGCGTGGATTGTCTCCGC
+HWI-EAS443:3:89:788:555#0/1
aUZ]¥bRRRaV`KQ^_YQ^_R`_aPKUFR¥JUNQHx]BB
@HWI-EAS443:3:89:840:159#0/1
CGCCCCGTAATTTACGGAAACCACTGACTGTCCAGCAGC
+HWI-EAS443:3:89:840:159#0/1
`baaabaabbbbab`baa`a_a`aaa_aaV_^Z_U^`Q
@HWI-EAS443:3:8:428:1609#0/1
AGACAATCCACGCCCTAATGATAAGACAGGCAGTTGTGGG
+HWI-EAS443:3:8:428:1609#0/1
_¥Z_aaa`Z]_¥MX¥]]V]Q^`^`_[[_BBBBBBBBBB
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+HWI-EAS443:3:90:132:1462#0/1
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@HWI-EAS443:3:90:1650:1295#0/1
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+HWI-EAS443:3:90:1650:1295#0/1
abbabb¥¥^b[bbZ[a[aa]bbaaa`a`aT``]Ya]_`_
@HWI-EAS443:3:90:378:382#0/1
ACCTGTCTTATCATTAGGGCGTGGATTGTCTCCGAAAATC
+HWI-EAS443:3:90:378:382#0/1
T^`^WI__`b]`V`Y[b^SXUabb_S^YJY]aab^N¥]a]
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+HWI-EAS443:3:91:1793:228#0/1
DMWXYXZZZXWZZXQXUYXXUXXPZWZZZYXXXPXXXW
@HWI-EAS443:3:91:264:1368#0/1
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+HWI-EAS443:3:91:264:1368#0/1
Ub_¥VZ`a^_^Ub]`b`[[__aa_a¥T¥baNZ^a_a^WNO
@HWI-EAS443:3:91:50:779#0/1
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+HWI-EAS443:3:91:50:779#0/1
aabbbbaa`^bbabb`_aaaa^a_Y__¥_a¥WT[NU_^]T
@HWI-EAS443:3:92:1461:1120#0/1
GCCACTGCATATGTATCCTATCTGATATCCAGATTCTGG
+HWI-EAS443:3:92:1461:1120#0/1
`aaaaa¥Y_aa_ZVaaZQ]a_[]`aaa_aa``_a``_R`aa
@HWI-EAS443:3:92:613:638#0/1
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+HWI-EAS443:3:92:613:638#0/1
abba_^aaaa_baaaaYaaaaa^a_a`a`__Z]^_aa`
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+HWI-EAS443:3:92:631:484#0/1
a[[`_` [Waa]¥_YW^aZ_X)`^_R]G_¥[_Y`VUWPY[V
@HWI-EAS443:3:92:700:842#0/1
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+HWI-EAS443:3:92:700:842#0/1
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@HWI-EAS443:3:92:724:2035#0/1
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+HWI-EAS443:3:92:724:2035#0/1
GW`_b_baaaaaa_UUabbbZabUbZZbZTJRbba^_UU
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+HWI-EAS443:3:92:796:840#0/1
ab`^aaaa_`¥aa__`__`a__`a`a_aa``a[___`V_X_
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+HWI-EAS443:3:93:414:157#0/1
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+HWI-EAS443:3:94:1383:227#0/1
__^H]aa`Zb¥ZU`^aVPa¥aW¥G_¥]_KUPGXO^]a¥YH
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+HWI-EAS443:3:94:275:1669#0/1
a`aaaa`aa`aa_aa_aaa_a`__a`__`a__^____^_`^
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+HWI-EAS443:3:98:1041:263#0/1
`ab_ab_a`abbbaa`bb`_aZa`__`aQaaXTHZ`R^XN
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^abb`Y`a^bb_^TY`baY^ababPa^¥a`Vb`abb]aVJ
@HWI-EAS443:3:98:801:585#0/1
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+HWI-EAS443:3:98:801:585#0/1
H¥^`¥a^`^_M_a_[SaZI^00WVR_SHa[^b]VZb``Y¥
@HWI-EAS443:3:99:107:2036#0/1
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+HWI-EAS443:3:99:107:2036#0/1
Sa_ZVS]ab¥Raa_Z^Z]_aXST[aaYXLSYa^V¥U_a[[
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+HWI-EAS443:3:9:1066:808#0/1
abbbbaabaaabb_aaabaaa`_aaaa^aa`^aa``^]a`
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+HWI-EAS443:3:9:960:1065#0/1
`^ [b`a`bb_bab_aaZK`aa`__`_a[VUPKP[GGV[U

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+HWI-EAS443:3:100:1035:307#0/1
a^aaab_babbba``aaa^a`dWa^__`_^``__a]_VB
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GACCGTGGGTGTCTTTCAACCAGAATCTGGAATATCAGAT
+HWI-EAS443:3:100:1062:1629#0/1
``TN_RbaaZbW_Y__^_¥WR`_aU^Ga_dMWV`_X^PBB
@HWI-EAS443:3:100:1074:241#0/1
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+HWI-EAS443:3:100:1074:241#0/1
aa_`aY_Z¥_`V¥]`][XYM`^^XNRY[]`¥USX¥YY]BB
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+HWI-EAS443:3:100:1110:1222#0/1
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@HWI-EAS443:3:100:1115:1662#0/1
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+HWI-EAS443:3:100:1115:1662#0/1
abaa]]abbaa_Iaa`baR__b[a¥a`a`a`^aa__^Ta[
@HWI-EAS443:3:100:1117:247#0/1
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+HWI-EAS443:3:100:1117:247#0/1
a_ba_a_ba^a¥aa`[R¥`a_¥a¥^_]¥^_TS^_T¥U[BB
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+HWI-EAS443:3:100:1159:385#0/1
aaa]aaabaaba`a_aaaW`Yaa`a]_`[[_]¥]¥S__`_
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+HWI-EAS443:3:100:1225:1408#0/1
`ba`a¥aY`ab_a[`aa`_¥`_XTZY`_^aWX¥_]O_BBB
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+HWI-EAS443:3:100:1359:1267#0/1
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+HWI-EAS443:3:100:1430:1101#0/1
_bbabbbbaabbb_bbbaabbbabaIabb^R]bbb]]^b
@HWI-EAS443:3:100:146:1384#0/1
GGATGTGTTTGTCTATAAGGGAACCATTTCATATCATGCTCC
+HWI-EAS443:3:100:146:1384#0/1
_``[a_YE¥`_`[^`_a][aSa_a`¥^]]_`RV_]V_^X]
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+HWI-EAS443:3:100:1554:1301#0/1
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+HWI-EAS443:3:100:1635:1016#0/1
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+HWI-EAS443:3:100:171:820#0/1
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+HWI-EAS443:3:100:222:1690#0/1
¥S_Z^W`^`_Y`I`Y]TP]MSaba^]_aVH^[_aX[BB
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+HWI-EAS443:3:100:253:463#0/1
a`a`aaa_`]]`____`^`^`_`^^^Y]VZXYYZWVXYBB
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+HWI-EAS443:3:100:322:737#0/1
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@HWI-EAS443:3:100:373:1382#0/1
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+HWI-EAS443:3:100:373:1382#0/1
a`aa__^aa][^a^Y¥a__`_^a``¥__^Z]`¥]S`UUB
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+HWI-EAS443:3:100:489:369#0/1
abVa`bKbaMSa`^Y`^`UZYSYPNN`^S]W`aaaJ_¥`
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+HWI-EAS443:3:100:503:1660#0/1
_ZSbbaa`_Zb^¥XYaaaT]T]UJWZaaRQ_aYUR]BBB
@HWI-EAS443:3:100:518:1192#0/1
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+HWI-EAS443:3:100:518:1192#0/1
a_abb`Zaababaaa_ba`_aba_aaaaa`aab`aN___B
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+HWI-EAS443:3:100:55:830#0/1
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@HWI-EAS443:3:100:56:348#0/1
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+HWI-EAS443:3:100:56:348#0/1
`SK¥ZY]Y¥ZZ]_a[OZR`_]U`¥`_PQXRXY¥WYRTBB

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+HWI-EAS443:3:100:587:1651#0/1
abX_aa`ZU_WFWZV[aa]a`aaaa^RaaT]`UO]P[BBB
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+HWI-EAS443:3:100:660:555#0/1
``]aYaaY`L_baZZ^^__aaZ^¥PXa_a`UY^VUYX[_B
@HWI-EAS443:3:100:68:1278#0/1
GATGATTTGGGATCCGAACGGATGGACTGGGACAGACAAT
+HWI-EAS443:3:100:68:1278#0/1
a_ab^bab_a_Q``_a^]]a_^[[^VX^`^V]_V]BBB
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CGCTAATTTACGGAAACCACTGACTGTCCAGCAGCAAAG
+HWI-EAS443:3:100:755:1161#0/1
a`bb`````ab`b]_b[[^aabaabb`a`]_a_]¥WX_
@HWI-EAS443:3:100:814:393#0/1
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+HWI-EAS443:3:100:814:393#0/1
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@HWI-EAS443:3:100:894:114#0/1
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+HWI-EAS443:3:100:894:114#0/1
a_baa_`b__a`]_¥a_a`_Xa`_aU`¥Z`___U¥ZZ`B
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+HWI-EAS443:3:100:902:40#0/1
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+HWI-EAS443:3:100:90:651#0/1
]_bbb_Uabaababaaaa`]a_a__[aaa`b_a`aQ_BBB
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+HWI-EAS443:3:100:964:1092#0/1
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@HWI-EAS443:3:10:100:952#0/1
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+HWI-EAS443:3:10:100:952#0/1
]`_^Y^^[Z0[bb]baUaVTabaa_[aba]a]U[aTU0^
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+HWI-EAS443:3:10:1014:1325#0/1
aaba`a`aX`_Z_____`U]__aa]S][ZKX]¥HXZ]LL
@HWI-EAS443:3:10:1040:266#0/1
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+HWI-EAS443:3:10:1040:266#0/1
`ba`b_babbabba_Xbbab]aabbabbbbbbabab_ba
@HWI-EAS443:3:10:1129:180#0/1
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+HWI-EAS443:3:10:1129:180#0/1
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+HWI-EAS443:3:10:1181:1520#0/1
_^ZR¥Z_Y[_Y_¥`a``][¥¥]^LX¥`_Q]R¥¥MHYYVS
@HWI-EAS443:3:10:1192:612#0/1
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+HWI-EAS443:3:10:1192:612#0/1
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+HWI-EAS443:3:10:1303:319#0/1
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@HWI-EAS443:3:10:146:870#0/1
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+HWI-EAS443:3:10:146:870#0/1
aabbbb[ab`aa`_¥¥_aQaaa`a`W^`__a`V[aa```
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+HWI-EAS443:3:10:1620:1032#0/1
aaa`_b`¥abababbbabbbbabbb_bbb`[]^aa_N_[a
@HWI-EAS443:3:10:165:1906#0/1
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+HWI-EAS443:3:10:165:1906#0/1
aaaYa^aaa`_a`_¥¥¥]a`a__`^`_]__Y]]]_^
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+HWI-EAS443:3:10:1704:1115#0/1
aaa`aaaaa_aa^a^_a`a_a¥^_Z`_`W^__P_^_Y_Y
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+HWI-EAS443:3:10:1709:222#0/1
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@HWI-EAS443:3:10:1766:1012#0/1
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+HWI-EAS443:3:10:1766:1012#0/1
aa_bbbbaIbbba`a__aaaa^`_`[aXaaaNaQZ]Q^``
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@HWI-EAS443:3:10:353:1149#0/1
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+HWI-EAS443:3:10:353:1149#0/1
a]X_X¥V^a_Ya]Y]_a[_`_¥[XW[^[_`___Z__`_^_
@HWI-EAS443:3:10:356:1926#0/1
TTCATATCATGCTCCCCCTTGAATGCAGAACCTTCTTCT
+HWI-EAS443:3:10:356:1926#0/1
`_`baaa`aa__a`a`_]a`_`a`_]V`_`[_a]¥^_]YX^

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+HWI-EAS443:3:10:363:788#0/1
ab^Ybaab]W]^aaaaa^a`ab`a_Z__a^____[`_`_`
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AGAAATCCAATTGTTAGCCAATTGATGCCATCATGACAA
+HWI-EAS443:3:10:390:503#0/1
a[baaaa_babaab^^aa^_a_]W_¥_Z_]_]__^`_^
@HWI-EAS443:3:10:410:363#0/1
AGTCGCTTGGTCAGCAAGTGCTTGTTCATGATGGCATCAAT
+HWI-EAS443:3:10:410:363#0/1
aaZaba__aNZ`^`____`_^Z^__Y^__a_^_^]]^]_^_
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+HWI-EAS443:3:10:435:116#0/1
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@HWI-EAS443:3:10:559:1683#0/1
ACTCAATTCAACTTGGGAATCAAAATCAGATTGAAACATG
+HWI-EAS443:3:10:559:1683#0/1
a__^`_]a[Y[]^]¥]]_^]_^_][]`]^^[W[^_Y]W[
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+HWI-EAS443:3:10:617:1127#0/1
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@HWI-EAS443:3:10:645:272#0/1
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+HWI-EAS443:3:10:645:272#0/1
abbbbbbbbbbbbaabbaababaabbabbaa`ababaaa`
@HWI-EAS443:3:10:698:2024#0/1
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+HWI-EAS443:3:10:698:2024#0/1
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+HWI-EAS443:3:10:714:212#0/1
Ua^[¥X`RbaaTGWWQ`P^aa^[a__YWS_^_[R^^^_]U
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+HWI-EAS443:3:10:715:361#0/1
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@HWI-EAS443:3:10:731:1139#0/1
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+HWI-EAS443:3:10:731:1139#0/1
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+HWI-EAS443:3:10:759:951#0/1
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+HWI-EAS443:3:10:836:1753#0/1
aa¥_N` a[X] `U]ba^aa_¥X¥L¥_Va` SXST_` `YOJQ`
@HWI-EAS443:3:10:849:347#0/1
ATTAGGGCGTGGATTGTCTCCGAAAATCCCACTGCATATG
+HWI-EAS443:3:10:849:347#0/1
abbbbaabababa`aaa]`aa_a` ```` _[_W_]__` ``
@HWI-EAS443:3:10:92:1031#0/1
TGTTATTATGCCGTTGTACTTTAACACAGCCACTGCCCA
+HWI-EAS443:3:10:92:1031#0/1
aa`abaabaa_aa__aZ]¥___a¥^aZ` ^` _^`]]a_` _]
@HWI-EAS443:3:10:931:1022#0/1
TGCAATCAAAGCGTCATTACTTATGAAAACAACACTTGGG
+HWI-EAS443:3:10:931:1022#0/1
a_aa` `` `aaa^_] [_` ^` ^` __a__ ^` _W_^Z^[] ^^[Z
@HWI-EAS443:3:10:94:688#0/1
CAGGCAGTTGTGGTCCAGTATCGTCTAATGGAGCAAATGG
+HWI-EAS443:3:10:94:688#0/1
a¥ababb^^` ^[Z` aXZ]U¥a` a^aaX` _¥Y0aa] `¥_ba
@HWI-EAS443:3:10:956:969#0/1
CGCTTGGTCAGCAAGTGCTTGTGCATGATGGCATCAATTGG
+HWI-EAS443:3:10:956:969#0/1
_` `a^W[Q]¥¥^¥_X_` a` ^Z]]N^^WV]WSM]W^`]] `Y
@HWI-EAS443:3:10:985:692#0/1
CATTAGACGATACTGGACCACAACCTGCCTGTCTTATCATT
+HWI-EAS443:3:10:985:692#0/1
abbbbbbbabbbba] _^a` aa__a__ [TZ` a]R` a[]N[_a
@HWI-EAS443:3:11:1020:297#0/1
GGATTAGCCACTCAATTCAACTTGGGAATCAAAATCAGAT
+HWI-EAS443:3:11:1020:297#0/1
aa^` a` _` __^` []T¥RV^^[^` __^^^]Y[^[^[Z]^]V
@HWI-EAS443:3:11:1068:397#0/1
CGGGAGTTTTTGTTCAGCATCCAGAACTAACAGGGCTGGAT
+HWI-EAS443:3:11:1068:397#0/1
abbbbbTaaa]_a^` `` `aaa]aa` a_bab_^aaa^aaaa`
@HWI-EAS443:3:11:109:431#0/1
GTTATCCTGATTCTAGTAAAATCACATGTGTGTGCAGGGA
+HWI-EAS443:3:11:109:431#0/1
`PV¥QVV^` ` ^` __[_^V^]PX] `[^` _]^W_Y]WZVW¥TTT
@HWI-EAS443:3:11:110:28#0/1
GCCCCGTAATTTACGGAAACCACTGACTGTCCAGCAGCA
+HWI-EAS443:3:11:110:28#0/1
abbaaa` ^U_` a` aaa` _` ` _` ^¥^_V[^^U][[UZ^UUBB
@HWI-EAS443:3:11:1141:1217#0/1
CTGCCTGTCTTATCATTAGGGCGTGGATTGTCTCCGAAAA
+HWI-EAS443:3:11:1141:1217#0/1
abbaaabbbbbb` bbabbbb^ab` a` aaaa]_a` ^` a` aaa

@HWI-EAS443:3:11:1258:1982#0/1
ACCGTTTCTTGAACATAATGCTTTTAGTTCTCCCTATCCAA
+HWI-EAS443:3:11:1258:1982#0/1
a_a`]aaXX]_`a^]____][_^^^^Z_Y]T]P_]IH^]
@HWI-EAS443:3:11:128:1250#0/1
CATGTGTAATGGTTCTTGCTTTACTGTAATGACCGATGG
+HWI-EAS443:3:11:128:1250#0/1
aaab`b`babbba]aabab_aaabaab__a_aaaaaaaa`
@HWI-EAS443:3:11:1290:226#0/1
AAGTACAACGGCATAATAACAGACACTATCAAGAGTTGGA
+HWI-EAS443:3:11:1290:226#0/1
aab^baaa`bbaaaaaaaa`aa__^a`^^`a^_]`__^
@HWI-EAS443:3:11:129:186#0/1
CTCCATTAGACGATACTGGACCACAACCTGCCTGTCTTATC
+HWI-EAS443:3:11:129:186#0/1
`[a^¥Z^S¥HZZ^Y^KHUXXZ_[[TZXR][QRVJRBBBBB
@HWI-EAS443:3:11:1333:1972#0/1
GAAATTCCAATTGTTAGCCAATTGATGCCATCATGACAAG
+HWI-EAS443:3:11:1333:1972#0/1
a¥bbaa^¥baa`a_^a_babaa[Y`_aa]SZM_YY_W_Y_
@HWI-EAS443:3:11:1345:875#0/1
ACTGACTGTCCAGCAGCAAAGTTGGTGTGCTGATGTAA
+HWI-EAS443:3:11:1345:875#0/1
aaa_aabb]a`ZZUY^STZ¥^VZYORa^[OLWRSX[¥[UY
@HWI-EAS443:3:11:1391:975#0/1
ATATGCAGTGGGATTTTCGGAGACAATCCACGCCCTAATG
+HWI-EAS443:3:11:1391:975#0/1
a_aaaaaabWb_aaaaaaaaaPa_a`aaYU^Q_STFY[___X
@HWI-EAS443:3:11:1417:1922#0/1
GGGGGATGTGTTTGTGATAAGGGAACCATTATCATGC
+HWI-EAS443:3:11:1417:1922#0/1
ababaaaa_aaaaa`a_a[aa`_`UM]_`M`a__Q^^]X
@HWI-EAS443:3:11:1443:1841#0/1
GTTCTCAATATATTGTTTCTCCAACCTTGATAGTGTCTG
+HWI-EAS443:3:11:1443:1841#0/1
a^aaaaaa`aaaa_a_aZaa]¥^¥[_Ta`_`¥_^XBBBBB
@HWI-EAS443:3:11:152:839#0/1
GATTGTATAAGACCTTGCTTCTGGGTTGAACTAATCAGAG
+HWI-EAS443:3:11:152:839#0/1
a`aZ¥NT]I^a[a]a^a_T[_^a`a_]_`aVHSNX__^X^
@HWI-EAS443:3:11:1557:827#0/1
GGGTTGATATGGGCTCCTGTCTTTAATGGTTCCATTGGA
+HWI-EAS443:3:11:1557:827#0/1
Y`_L`_Y^a]``^`¥b`^a`T`baP``_`aXGPXaV^a`
@HWI-EAS443:3:11:1716:785#0/1
CAGAAATTCCAATTGTTAGCCAATTGATGCCATCATGACA
+HWI-EAS443:3:11:1716:785#0/1
¥b`_`abab`]babba[bbbbbaabaabaWI`aaaaa^^_
@HWI-EAS443:3:11:1730:817#0/1
AGCCCATCCACTAACAGGGCAGAGAGGAATTGCCCGCT

+HWI-EAS443:3:11:1730:817#0/1
a`aaa`bb``abba^aaab^^`_a``_a¥___¥aUUW_N_
@HWI-EAS443:3:11:1732:1075#0/1
AATGTGCATGTGTAAATGGTTCTTGCTTTACTGTAATGAC
+HWI-EAS443:3:11:1732:1075#0/1
^a^Za`¥]a_X^JTY]`a]aabTYV¥`_`Q`a]`_aaaQ
@HWI-EAS443:3:11:1742:647#0/1
GAGGGAACCTCACCAATAGGACAGCTCATTAGGGTTCGAT
+HWI-EAS443:3:11:1742:647#0/1
aZb_`W][aaa_XTV_[J[a^XZ_UWLYZZZ_`aYYW]BB
@HWI-EAS443:3:11:1778:389#0/1
GTCAGTGGTTTCCGTGAAATTAGCGGGCAATTCCTCTCTC
+HWI-EAS443:3:11:1778:389#0/1
a^`_aV_]Xa¥WZaU_Y_^_V¥VV^¥¥V¥X¥WUXW¥VWW
@HWI-EAS443:3:11:180:937#0/1
ATTCATATCATGCTCCCCCTTGAATGCAGAACCTTCTTC
+HWI-EAS443:3:11:180:937#0/1
`abaabaaaa]_`_]aa`]Z_]_`]`aZ[]```_]a^^`
@HWI-EAS443:3:11:320:831#0/1
AGCGGGAGCAGCATATCCTTTTGTGGTGTAAACAGTGACA
+HWI-EAS443:3:11:320:831#0/1
aZa`aa^[`]`a_``````_a`a`V`a¥¥^`S¥__`W_`W¥
@HWI-EAS443:3:11:325:1369#0/1
CTTGGGAATCAAATCAGATTGAAACATGCAATCAAAGCG
+HWI-EAS443:3:11:325:1369#0/1
a`a`aaabaaaa]a`aaaaa`a_`a]``a_`__`_^__
@HWI-EAS443:3:11:32:1740#0/1
CGATACTGGACCACAACCTGCCTGTCTTATCATTAGGGCGT
+HWI-EAS443:3:11:32:1740#0/1
aaa_aaaa¥`a`aaa`a`a`^^[_a_``[__]XJOYZV
@HWI-EAS443:3:11:390:563#0/1
TGCTTTATTGAGAAGTTATTGTCTGTCCCAGTCCATCCGT
+HWI-EAS443:3:11:390:563#0/1
Obab`^^^bb]b^bb`bb_`b_aa`HV_TS]BBBBBBBBB
@HWI-EAS443:3:11:632:1527#0/1
AGCCACTGCCCCATTGTCTGGCCAGAAATCCAATTGTT
+HWI-EAS443:3:11:632:1527#0/1
_Z^`UQOZ¥¥_VPX]Q]ZTNP¥`^Z`VHIU]N[BBBBB
@HWI-EAS443:3:11:643:1945#0/1
AATGTGCATGTGTAAATGGTTCTTGCTTTACTGTAATGAC
+HWI-EAS443:3:11:643:1945#0/1
^Z`H[`b`YU^Xb^a_UUW^a`Za¥¥__TLP¥¥a__YaP
@HWI-EAS443:3:11:695:545#0/1
GGGGGATGTGTTTGTGATAAGGGAACCATTATCATGC
+HWI-EAS443:3:11:695:545#0/1
aa[aa`]aQ^`_a^`]WUWHa]X]]^N]]NNX]YN^UBB
@HWI-EAS443:3:11:734:655#0/1
TTGTTAGCCAATTGATGCCATCATGACAAGCACTTGCTGA
+HWI-EAS443:3:11:734:655#0/1
abb]aaaa`S_aa```a`^__aa`_aa``S__a`_]____

@HWI-EAS443:3:11:795:389#0/1
GCTCCATTAGACGATACTGGACCACAACCTGCCTGTCTTAT
+HWI-EAS443:3:11:795:389#0/1
aaaabaaaababaa`]V]a^FR[Q^__[_`_Z^[SX_¥[¥
@HWI-EAS443:3:11:801:352#0/1
GTTCTCCCTATCCAAACACCATTGCCGTATTTGAATGAAA
+HWI-EAS443:3:11:801:352#0/1
`_aa_R^ZYaa[¥a_a]Y`_]_^]]]aS_]``]V¥_]__^
@HWI-EAS443:3:11:817:787#0/1
CATTAGACGATACTGGACCACAACCTGCCTGTCTTATCATT
+HWI-EAS443:3:11:817:787#0/1
abaaaa`abaa`¥`]a^aaa_``__^Q[^`SU^`_^]Y^_
@HWI-EAS443:3:11:819:1087#0/1
CTTTAACACAGCCACTGCCCATTTGTCTGGGCCAGAAATT
+HWI-EAS443:3:11:819:1087#0/1
``_U¥VT¥a^¥¥Z^Ra]`^`^U]ZTVW_ZVS¥XW[H]^BB
@HWI-EAS443:3:11:838:579#0/1
ATTGTATAAGACCTTGCTTCTGGGTTGAACTAATCAGAGG
+HWI-EAS443:3:11:838:579#0/1
S`bbabb`U_b_0]Z^``^`[]V¥bbba`b`_aa`_a
@HWI-EAS443:3:11:871:108#0/1
CAGACATATGTTAACATCAGCAACACCAACTTTGCTGCTG
+HWI-EAS443:3:11:871:108#0/1
aabb`abbbbbabaaabbb_aaabW]baYaab__b`ab
@HWI-EAS443:3:11:890:1502#0/1
AAACATTCCAATGGAACCATTAAGACAGGAGCCCATATC
+HWI-EAS443:3:11:890:1502#0/1
aaba`aaabaaa````]`a`_````_a_]`^`^U
@HWI-EAS443:3:11:896:567#0/1
GGAATAAATGAGTGGTCAGGATATAGCGGGAGTTTTGTTC
+HWI-EAS443:3:11:896:567#0/1
a^XP_YUaUYNY^_HOS]SW]__^NRY]SSVFXWTRGYB
@HWI-EAS443:3:11:927:702#0/1
GACAGACAATAACTTCTCAATAAAGCAAGATATCGTAGGA
+HWI-EAS443:3:11:927:702#0/1
aaaaabbb_bbaabaabaabaaaaa`aaaa`a__aaa
@HWI-EAS443:3:11:933:992#0/1
ATGACAAGCACTTGCTGACCAAGCGACTGACTCAAATCTT
+HWI-EAS443:3:11:933:992#0/1
abbaaa_aaaaaa`aa^Z_``a_`^R_`S]]]^`¥^X`_
@HWI-EAS443:3:11:943:1565#0/1
CAGCCACTGCCCCATTGTCTGGGCCAGAAATCCAATTGT
+HWI-EAS443:3:11:943:1565#0/1
abaabb`aa]^¥^]Z_a[aRaa¥HXS[KV^]Q`[YZ[[N¥
@HWI-EAS443:3:11:991:1965#0/1
TCCAATTGTTAGCCAATTGATGCCATCATGACAAGCACTT
+HWI-EAS443:3:11:991:1965#0/1
`ab_aaaY[R_]P^]ab_X``baa`UD[a_WH¥a`M`QZS
@HWI-EAS443:3:12:1097:1447#0/1
ATCGGTTCCAAGGGGATGTGTTTGCATAAGGGAACCAT

+HWI-EAS443:3:12:1097:1447#0/1
a__a^ZX`VX]^¥^_X^UXSY^[RUXZVX0]ZZ]ZXWV
@HWI-EAS443:3:12:1100:915#0/1
ATTAGGGCGTGGATTGTCTCCGAAAATCCCCTGCATATG
+HWI-EAS443:3:12:1100:915#0/1
aaa`[Z_`_`ZY^`]]W¥`[aa```_a`Z]R¥`[_a]a`
@HWI-EAS443:3:12:1147:1972#0/1
GTTTGGATAGGGGAGAACTAAAAGCATTAGTTCAAGAAACG
+HWI-EAS443:3:12:1147:1972#0/1
a]a`aa^aaaa¥__Z`_a¥a_¥aa]¥`_Y¥]]W_]^[^Y`
@HWI-EAS443:3:12:1231:978#0/1
CACTGCATATGTATCCTATCTGATATTCAGATTCTGGTT
+HWI-EAS443:3:12:1231:978#0/1
ababa`bbb`baaaabbbbabbaaabab]aaaaaaaa`a
@HWI-EAS443:3:12:1238:566#0/1
TGTTGTCTTTACTGTATATAGCCCATCCACTAACAGGGCA
+HWI-EAS443:3:12:1238:566#0/1
__`]]`bbbb_¥Wba]abba[`XWZ^b_aaa`bbT^ab[[J
@HWI-EAS443:3:12:1277:1915#0/1
TGGGACAGACAATAACTTCTCAATAAAGCAAGATATCGTA
+HWI-EAS443:3:12:1277:1915#0/1
^``RRa`^__aaZX[Y^a^Y^Xb``^b^Z^¥^`a_a`LW`
@HWI-EAS443:3:12:1297:189#0/1
TCATGACAAGCACTTGCTGACCAAGCGACTGACTCAAATC
+HWI-EAS443:3:12:1297:189#0/1
aaaaa^aaaaX¥[_a_aa`VY`__]]`VY`_Y]XUUP]BB
@HWI-EAS443:3:12:1342:123#0/1
AGGCAGTTGTGGTCCAGTATCGTCTAATGGAGCAAATGGA
+HWI-EAS443:3:12:1342:123#0/1
abaaab]a]Tb`T_YV][`[_UWZ_a[ZaGZFY¥_a`G
@HWI-EAS443:3:12:1347:179#0/1
CCCTCTCCATACAACTCAAGATTTGAGTCAGTCGCTTGGT
+HWI-EAS443:3:12:1347:179#0/1
`a`a]]Xa_a^Z^WZ_a^VRV_^[[ZZY^]^UX^]]WNUB
@HWI-EAS443:3:12:1395:1072#0/1
CAGCAAGTGCTTGCATGATGGCATCAATTGGCTAACAAAT
+HWI-EAS443:3:12:1395:1072#0/1
ab`bb^]JY_^aa]]Waaba_b¥bb_aaaaXQaa`^aaa
@HWI-EAS443:3:12:1408:837#0/1
GCTCCTGTCTTTAATGGTTCCATTGGAATGTTTGCATTT
+HWI-EAS443:3:12:1408:837#0/1
aba``bbababaaa`ba¥`^W`X[a```__aa]^¥U`_`
@HWI-EAS443:3:12:1429:561#0/1
ATGCAGTGGGATTTTCGGAGACAATCCACGCCCTAATGAT
+HWI-EAS443:3:12:1429:561#0/1
^__X¥_0^baP]]__¥`baa]0]a¥N]_Y¥JDD[]Z^``B
@HWI-EAS443:3:12:1441:1582#0/1
AACAGACACTATCAAGAGTTGGAGAAACAATATATTGAGA
+HWI-EAS443:3:12:1441:1582#0/1
a`V]]`a¥abb`[^`aabaa`a`aYaa`_Ya``a_aa`a_

@HWI-EAS443:3:12:1449:1613#0/1
CGCTAGTCCAGATTGTGTTCTCTTTGGGTCGCCCTCTGAT
+HWI-EAS443:3:12:1449:1613#0/1
a_b[`aaabbbabab`aabab_aaaaaa]¥__^_a]aaaa
@HWI-EAS443:3:12:1493:1953#0/1
GATATTCCAGATTCTGGTTGAAAGACACCCACGGTCGATT
+HWI-EAS443:3:12:1493:1953#0/1
abb_[`b¥Ma`^XU]aa_baa_aUaRaWNR[V`BBBBBBB
@HWI-EAS443:3:12:1567:1748#0/1
TGTCTCCGAAAATCCCACTGCATATGTATCCTATCTGATA
+HWI-EAS443:3:12:1567:1748#0/1
¥b`^`_^`¥^^`[]S^]__[Ua_Ta^a`_Z``aNva^]_
@HWI-EAS443:3:12:172:468#0/1
CACAAGAGTCTGAATGTGCATGTGTAATGGTTCTTGCTT
+HWI-EAS443:3:12:172:468#0/1
aa_a`a`_Z```][Z[X``__^]¥FRLTV^MU¥]¥]^X
@HWI-EAS443:3:12:176:179#0/1
TTTGAGATGATTTGGGATCCGAACGGATGGACTGGGACAG
+HWI-EAS443:3:12:176:179#0/1
aa``_W]]]¥^``^`^`P[¥^]NTY¥VYYZZYTTRB
@HWI-EAS443:3:12:23:983#0/1
TCAAAATCAGATTGAAACATGCAATCAAAGCGTCATTACT
+HWI-EAS443:3:12:23:983#0/1
a`X[_aaab^]aaVV]]`aa_`Y``a`_`aa^`_``__`
@HWI-EAS443:3:12:30:1430#0/1
ATCCGAACGGATGGACTGGGACAGACAATAACTTCTCAAT
+HWI-EAS443:3:12:30:1430#0/1
_`aaaU`a_a^_a`SRY`a`^YZ]_a__`[¥^__YaYZR
@HWI-EAS443:3:12:349:310#0/1
TCAAAATCAGATTGAAACATGCAATCAAAGCGTCATTACT
+HWI-EAS443:3:12:349:310#0/1
_^]ZN[U`WaY`R^b^^]`__]^HV_a[_^]aYMV[UMP[
@HWI-EAS443:3:12:380:1093#0/1
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+HWI-EAS443:3:12:380:1093#0/1
aa_00ZSI_a`TZ¥0SR_``aa]YZXY]]`XEM[YNS^^W
@HWI-EAS443:3:12:386:815#0/1
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+HWI-EAS443:3:12:386:815#0/1
aaaa``aa`a¥aaaaa``_a``a`_a_WU[[V[^Z[WW
@HWI-EAS443:3:12:458:723#0/1
ATGACAAGCACTTGCTGACCAAGCGACTGACTCAAATCCTT
+HWI-EAS443:3:12:458:723#0/1
a]`Ta_a¥a]^_aa`YTas_``_`¥Z^_ZW]W]UU^^_`^
@HWI-EAS443:3:12:470:2040#0/1
GCCACTCAATTCAACTTGGGAATCAAAATCAGATTGAAAC
+HWI-EAS443:3:12:470:2040#0/1
abbbbab_aabbbbbaabbababbbbbbaa_babaabaaba
@HWI-EAS443:3:12:474:1069#0/1
GGTTGAAAGACACCCACGGTCGATTGAGCCATGCCAGTT

+HWI-EAS443:3:12:474:1069#0/1
abYbabb`a_abba`abbbZ_a¥_]`[^U`_]_aZ` `V¥
@HWI-EAS443:3:12:527:530#0/1
GCCCCGTAATTTACGGAAACCACTGACTGTCCAGCAGCA
+HWI-EAS443:3:12:527:530#0/1
`baababbaaaaa`aaaab_a]aaa`_aa_[R`__`]_
@HWI-EAS443:3:12:600:622#0/1
GTCATTTAGCAAGGCCCTTGAGTCAAGAAGAAGGTTCTG
+HWI-EAS443:3:12:600:622#0/1
` `aaaaaa` `a[V`^[ZZ`^`_^aRQV`^_ZTVWUXVP]R`_
@HWI-EAS443:3:12:64:1159#0/1
CTAGAATCAGGATAACAGGAGCATTCCCTCATAGTGATAAT
+HWI-EAS443:3:12:64:1159#0/1
a__RMHP`_`X^]`]WZ`^]Z`]]`]`]]_Y_ZVVTY
@HWI-EAS443:3:12:679:1343#0/1
GGGATCCGAACGGATGGACTGGGACAGACAATAACTTCTC
+HWI-EAS443:3:12:679:1343#0/1
a`a[]]XSS[DU]]UWYU^T[[¥QR]]Y`_]W^OO_VYT
@HWI-EAS443:3:12:691:1287#0/1
CCCAAATCATCTCAAACCGTTTCTTGAAC TAATGCTTTT
+HWI-EAS443:3:12:691:1287#0/1
`_`_aa__baaa_aaaaaaaaa^__a_¥Y[`W]aa^_X]____
@HWI-EAS443:3:12:697:86#0/1
ATTAGGGCGTGGATTGTCTCCGAAAATCCCACTGCATATG
+HWI-EAS443:3:12:697:86#0/1
abbaa`aaa_b^^a`aXS_Z_a__a`¥_Z_]Z]_^¥^Z`^
@HWI-EAS443:3:12:743:95#0/1
GTGTAAACAGTGACACTGTGGGTTGGTCTTGCCAGACGG
+HWI-EAS443:3:12:743:95#0/1
a_aaa^a__aX`_¥`Xaa¥^_[Z`_`VX`U`_XNV^¥XBB
@HWI-EAS443:3:12:788:380#0/1
AGAAGAAGGTTCTGCATTCCAAGGGGAGCATGATATGAA
+HWI-EAS443:3:12:788:380#0/1
aaYab`aaa_a^a__`a`a`_^__`_a^]^ [__^`_`_^]^
@HWI-EAS443:3:12:807:298#0/1
CATTCATATCATGCTCCCCCTTGAATGCAGAACCTTCTT
+HWI-EAS443:3:12:807:298#0/1
_YQW]WaaXaaR[VHSVWXLUXT]Q^BBBBBBBBBBBBBB
@HWI-EAS443:3:12:812:1944#0/1
CATATGCAGTGGGATTTTCGGAGACAATCCACGCCCTAAT
+HWI-EAS443:3:12:812:1944#0/1
abbbb[_aaab`bb`b`bba_aba_b___ab^`Jaa`aa[
@HWI-EAS443:3:12:845:408#0/1
GGAGAGGGAAC TTCACCAATAGGACAGCTCATTAGGGTTC
+HWI-EAS443:3:12:845:408#0/1
aa]`P¥a]^` [bXaaU`_^]¥R`_`_`aRX`_¥^Z_a¥¥_T
@HWI-EAS443:3:12:96:438#0/1
GTCATGATGGCATCAATTGGCTAACAATTGGAATTTCTGG
+HWI-EAS443:3:12:96:438#0/1
aab^^a` `aZ]Q_ab` _____a_ZQ]]`a__^____^_^]^]

@HWI-EAS443:3:12:979:1367#0/1
TGGGAATCAAAATCAGATTGAAACATGCAATCAAAGCGTC
+HWI-EAS443:3:12:979:1367#0/1
abbaaa`aa`Y`aaaa_aa_]_a`_aa`____^__^_Z¥
@HWI-EAS443:3:12:97:72#0/1
GAAGTTCCCTCTCCATACAACCTCAAGATTTGAGTCAGTCG
+HWI-EAS443:3:12:97:72#0/1
`a_aY`_`____^`_Z^`_]XZ_[Z`Y¥^_`^V_XX]ZNVY
@HWI-EAS443:3:12:980:1443#0/1
AAACAATATATTGAGAACACAAGAGTCTGAATGTGCATGT
+HWI-EAS443:3:12:980:1443#0/1
^PIPT[X__^^Ya_a_]`_b^¥[_¥aaa^a____`[aX¥¥
@HWI-EAS443:3:13:1007:630#0/1
TGTCTCCGAAAATCCCCTGTCATATGTATCCTATCTGATA
+HWI-EAS443:3:13:1007:630#0/1
_baa`b`]abb_aa__`a[`Y[_[^`U^``¥¥TaR^`_`_`
@HWI-EAS443:3:13:1027:118#0/1
CATTAGGGCGTGGATTGTCTCCGAAAATCCCCTGTCATAT
+HWI-EAS443:3:13:1027:118#0/1
abbbbbbbbababb]abb^`aaabaaaa```a_aa[`a`_`
@HWI-EAS443:3:13:1042:1851#0/1
AATAACAGACACTATCAAGAGTTGGAGAAACAATATATTG
+HWI-EAS443:3:13:1042:1851#0/1
YY`UNWRU_0a`_b__Ta`_]J^V[[Z`V`¥V`NPNa]WT
@HWI-EAS443:3:13:1089:1766#0/1
ATGCAGAACCTTCTTCTTGGACTCAAGGGCCTTGCTAAAT
+HWI-EAS443:3:13:1089:1766#0/1
aT0¥` `[^¥H¥[[VUR^OS^WV¥0¥XWZLNZPNQX^]XW
@HWI-EAS443:3:13:1128:943#0/1
CACCAACTTTGCTGCTGGACAGTCAGTGGTTTCCGTGAAA
+HWI-EAS443:3:13:1128:943#0/1
_S][HY`__WXWa_S___VTX_VZ^ZX]aNZVH][HNVY`
@HWI-EAS443:3:13:1135:395#0/1
CACAAAAGGATATGCTGCTCCCGCTAGTCCAGATTGTGTT
+HWI-EAS443:3:13:1135:395#0/1
aaaa^¥¥`a`aaaa]¥)`_`^^^`][_W^__^[^¥^U` [Y
@HWI-EAS443:3:13:1156:978#0/1
ACACCCACGGTCGATTTCGAGCCATGCCAGTTATCCCTGCA
+HWI-EAS443:3:13:1156:978#0/1
a` `a`aa_a]W` [ZWXZ[WZV[¥SUZZX¥NUZUTW¥Z¥¥¥
@HWI-EAS443:3:13:1169:1287#0/1
GAAATTCCAATTGTTAGCCAATTGATGCCATCATGACAAG
+HWI-EAS443:3:13:1169:1287#0/1
Y`XJ_] [`_ [¥_a`_]aSZZ]aaQOUGQUaI[[aY`aaa
@HWI-EAS443:3:13:1180:1385#0/1
CACAAAAGGATATGCTGCTCCCGCTAGTCCAGATTGTGTT
+HWI-EAS443:3:13:1180:1385#0/1
a`_`aaYaa`_a_a` ``_¥_^____¥¥^W]X__V¥_aT`UW
@HWI-EAS443:3:13:1222:1338#0/1
CTGCTCCCGCTAGTCCAGATTGTGTTCTCTTTGGGTCGCC

+HWI-EAS443:3:13:1222:1338#0/1
aa`aaa`]aaa`a__`a`_a`T^[_][^`[¥]``SY_V[
@HWI-EAS443:3:13:1223:447#0/1
GCCCCCTTGAGTCAAGAAGAAGTTCTGCATTCCAAGGGGG
+HWI-EAS443:3:13:1223:447#0/1
a]SW^_]PY_U^_¥UXZa__[]^¥[^__^_Z[_^¥`YTR¥
@HWI-EAS443:3:13:1325:357#0/1
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+HWI-EAS443:3:13:1325:357#0/1
aa`aaaa`a`b`aabaaa`ab`_`_`^a__a¥`]S__^_[
@HWI-EAS443:3:13:1373:949#0/1
CCTAATTACTACTATGAGGAATGCTCCTGTTATCCTGATT
+HWI-EAS443:3:13:1373:949#0/1
aa^`T`^P`]SGRU]]aVRZ_aXS^[a_[U]U]LG^S_a¥
@HWI-EAS443:3:13:1434:806#0/1
GCCACTCAATTCAACTTGGGAATCAAATCAGATTGAAAC
+HWI-EAS443:3:13:1434:806#0/1
¥__bbaababbabbaabbbb¥bb`bbabb_ababbbbba_
@HWI-EAS443:3:13:146:1575#0/1
CTGCATATGTATCCTATCTGATATTCCAGATTCTGGTTGA
+HWI-EAS443:3:13:146:1575#0/1
aaaaba`a`¥b`^`aZaaba^`a`aab_¥aa]_aa_Z`W_
@HWI-EAS443:3:13:1511:558#0/1
AGACGATACTGGACCACAACCTGCCTGTCTTATCATTAGGG
+HWI-EAS443:3:13:1511:558#0/1
[aabbZS`^^`YJILW]R`YS^[PNNNZV¥YSLQV][[BB
@HWI-EAS443:3:13:1525:940#0/1
TGATTAGTTCAACCCAGAAGCAAGTCTTATACAATCCAG
+HWI-EAS443:3:13:1525:940#0/1
aaaaaa`_a`aa^[`aa_`]`_`_`V_a`aa_Za__V¥_`^
@HWI-EAS443:3:13:1612:328#0/1
CAGACACTATCAAGAGTTGGAGAAACAATATATTGAGAAC
+HWI-EAS443:3:13:1612:328#0/1
`]`a¥a^aaaa__^^]T^aaZZ^__a]a____a__^¥[V
@HWI-EAS443:3:13:1652:888#0/1
CAGGATAACAGGAGCATTCCCTCATAGTGATAATTAGGGGC
+HWI-EAS443:3:13:1652:888#0/1
^a__`_`Z[`aaaba[_`_`_`a`^a]]Y^^_a`__a`]aa^
@HWI-EAS443:3:13:1696:1518#0/1
GTGAAATTAGCGGGCAATTCCTCTCTCTGCCCTGTTAGTG
+HWI-EAS443:3:13:1696:1518#0/1
`U`]UZ¥[Y[]PZ^Z^X[[]UYWZUSTT_SLLZVY[BBBB
@HWI-EAS443:3:13:1723:329#0/1
TGCCCTGTTAGTGGATGGGCTATATACAGTAAAGACAACA
+HWI-EAS443:3:13:1723:329#0/1
a`aa`ab]^Y_]`_^^a`]`^_Y[P]GU_TZU`_]FXWI^
@HWI-EAS443:3:13:221:413#0/1
CTTGAGTCAAGAAGAAGTTCTGCATTCCAAGGGGGAGCA
+HWI-EAS443:3:13:221:413#0/1
abbbabaaabbab`aa`b^aaaab^aaaaa__a^]a_a_a

@HWI-EAS443:3:13:270:761#0/1
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+HWI-EAS443:3:13:270:761#0/1
[^\b`^`ab]a_ZWa`baaaZV^^`^a__`a___X_`XQ
@HWI-EAS443:3:13:275:342#0/1
GATTCTGTTGAAAGACACCCACGGTCGATTGAGCCATG
+HWI-EAS443:3:13:275:342#0/1
aaa¥]R^_¥GXX]]`___Va^XZ]^R_Y[]ZNQQPB BBBB
@HWI-EAS443:3:13:283:1662#0/1
GGTAAATGGCAACTCAGCACCGTCTGGCCAAGACCAACCC
+HWI-EAS443:3:13:283:1662#0/1
aaUaaY^]¥aa_^aaaUaa^_XLV[LVU^W^W¥Y¥W¥¥BB
@HWI-EAS443:3:13:290:168#0/1
CTGTTATTATGCCGTTGTACTTTAACACAGCCACTGCCCC
+HWI-EAS443:3:13:290:168#0/1
aab^bbabbabaab]bbYaabba`b_aaaa`_a__aY__
@HWI-EAS443:3:13:334:438#0/1
CAATTGATGCCATCATGACAAGCACTTGCTGACCAAGCGA
+HWI-EAS443:3:13:334:438#0/1
abaaaa`aabaaaa`aa[`a_aaa_a]]``]aa`^`^`^`
@HWI-EAS443:3:13:384:1164#0/1
ATGGGCTCCTGTCTTTAATGGTTCATTGGAATGTTTGTC
+HWI-EAS443:3:13:384:1164#0/1
a___ba`a_a^`a`^a^^WTWZ`^^`_S[^]_^__VNL
@HWI-EAS443:3:13:466:566#0/1
TTCAAATACGGCAATGGTGTGGATAGGGAGAACTAAAA
+HWI-EAS443:3:13:466:566#0/1
bbb]ab`aaaa]___Wa_baa`Y_aa`_``[_¥_^_aa
@HWI-EAS443:3:13:477:1560#0/1
GTCTTATAACAATCCAGCCCTGTTAGTTCTGGATGCTGAAC
+HWI-EAS443:3:13:477:1560#0/1
`R_^_^_a¥XX_]X___a_[_¥WTRW^_]`Y¥NODL[¥YV
@HWI-EAS443:3:13:506:621#0/1
ATCAGATTGAAACATGCAATCAAAGCGTCATTACTTATGA
+HWI-EAS443:3:13:506:621#0/1
a`a¥aaa`aa^a_a^a^_a`__`````_Z¥`_Z_____]^_]_
@HWI-EAS443:3:13:632:1922#0/1
GCCAAGACCAACCCACAGTGTCACTGTTTACACCACAAAA
+HWI-EAS443:3:13:632:1922#0/1
`¥aaa___bbaaZ^`0aa[]^[a^¥]^_^a^`Va`Z_^V^
@HWI-EAS443:3:13:653:1140#0/1
CGGGAGCAGCATATCCTTTTGTGGTGTAAACAGTGACACT
+HWI-EAS443:3:13:653:1140#0/1
ab^^R__V¥ZZ^0SDMU]S^]U^a^_[ULO¥GXV_TNSG[
@HWI-EAS443:3:13:689:439#0/1
TGCCGTTGTACTTTAACACAGCCACTGCCCCATTGTCTGG
+HWI-EAS443:3:13:689:439#0/1
abbabaab`a_aaaba`aaaa^_aaa__`__``aaY_aY¥
@HWI-EAS443:3:13:69:29#0/1
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+HWI-EAS443:3:13:69:29#0/1
a`aZaYY[a_a^W_¥]`Z[Y^]W[Y]^¥T[_]_]_]]]
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GCCCCATTGTCTGGGCCAGAAATCCAATTGTTAGCCAAT
+HWI-EAS443:3:13:719:680#0/1
abaab[ab_`a^aaaRabaa^`aa[_`aaaa_]`aVS^a^
@HWI-EAS443:3:13:81:516#0/1
CTTGTGTTCTCAATATATTGTTTCTCCAACCTTGATAGT
+HWI-EAS443:3:13:81:516#0/1
aa`Ua[aa¥aa`aaaaaaZ`a`_`_`_N[___a^XZ^]¥U
@HWI-EAS443:3:13:838:1253#0/1
CTATCTTTCCCTTTTCTATTCTGAAGATCTTGTATGAGGC
+HWI-EAS443:3:13:838:1253#0/1
abababaaaababba`bbba_aaaa`aa_aaa`a`_`a____
@HWI-EAS443:3:13:870:1394#0/1
TGCATGTGTAATGGTTCTTGCTTTACTGTAATGACCGAT
+HWI-EAS443:3:13:870:1394#0/1
`b[YYY`Y^b_ab^`aa_aaaa`]^aaa_aaaa_]X^__
@HWI-EAS443:3:13:929:974#0/1
GGCGTGGATTGTCTCCGAAAATCCCACTGCATATGTATCC
+HWI-EAS443:3:13:929:974#0/1
a_a`Z[¥NZ^UP_a[`^Q0__`a]YUY_]____¥W^U¥W_Q
@HWI-EAS443:3:13:92:1409#0/1
GGGCTGGATTGTATAAGACCTTGCTTCTGGGTTGAACTAA
+HWI-EAS443:3:13:92:1409#0/1
abbbaaa`abbabbaabbabaabababaa^`baab`aba
@HWI-EAS443:3:13:982:1445#0/1
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+HWI-EAS443:3:13:982:1445#0/1
[¥``baaba¥_0Zaaaa`a^Waaa`a`¥NRZ____[BBBB
@HWI-EAS443:3:13:990:1469#0/1
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+HWI-EAS443:3:13:990:1469#0/1
ab____baaba`b`aa`^a`abab_abaaaaaaab^^a
@HWI-EAS443:3:13:993:1278#0/1
AGCCCATCCACTAACAGGGCAGAGAGGAATTGCCCGCT
+HWI-EAS443:3:13:993:1278#0/1
`a]Xa__`_abaaaaX^Ya_]]][Z_aX_[````_Z____
@HWI-EAS443:3:14:1019:117#0/1
CGCTTGGTCAGCAAGTGCTTGTTCATGATGGCATCAATTGG
+HWI-EAS443:3:14:1019:117#0/1
_`aSS`ZFYabbUP_ab`aab¥_abb]``[``a^a`_`[`
@HWI-EAS443:3:14:1064:434#0/1
CTCCATTTGCTCCATTAGACGATACTGGACCACAACCTGCC
+HWI-EAS443:3:14:1064:434#0/1
aaab]a`aaaa`_`aaa`a`Ya_`_]RH]X`_O]_VQ
@HWI-EAS443:3:14:1072:1999#0/1
GACAAGCACTTGCTGACCAAGCGACTGACTCAAATCTTGA
+HWI-EAS443:3:14:1072:1999#0/1
_Z`^`b¥UNU]^ZX`_YZb`^SY[aaZ[¥YZYY`]^V`^`

@HWI-EAS443:3:14:1083:268#0/1
CTCAAATCTTGAGTTGTATGGAGAGGGAACCTCACCAATA
+HWI-EAS443:3:14:1083:268#0/1
a[S[0`]^`]]Z[[`¥[`¥_L_OYU]FQOUNQYXU¥BBB
@HWI-EAS443:3:14:1123:1090#0/1
ATTTTCGGAGACAATCCACGCCCTAATGATAAGACAGGCA
+HWI-EAS443:3:14:1123:1090#0/1
Zbbaa`a`_`a]]`__`^___¥__^_[___^R_GS`BBB
@HWI-EAS443:3:14:1132:1155#0/1
TTCAAATACGGCAATGGTGTGGATAGGGAGAACTAAAA
+HWI-EAS443:3:14:1132:1155#0/1
a`aaaaa`ab`_^ZQ]^`_aaX[S^_]_^Z]]][S^Y__`
@HWI-EAS443:3:14:1167:805#0/1
ATTTAAAGACAGGAGCCCATATCGAACCTAATGAGCTGTC
+HWI-EAS443:3:14:1167:805#0/1
^`]Y¥]^XZaaXV[^_Y_Z__^aY[]XV^_]U_T`OUUY]
@HWI-EAS443:3:14:1173:1174#0/1
ACCCACGGTCGATTTCGAGCCATGCCAGTTATCCCTGCACA
+HWI-EAS443:3:14:1173:1174#0/1
a]¥`_]aYGM_TVXMTSYU¥LMQLSGXKTZ[QQVPPSPSB
@HWI-EAS443:3:14:1194:1933#0/1
CAAGAAACGGTTTTGAGATGATTTGGGATCCGAACGGATG
+HWI-EAS443:3:14:1194:1933#0/1
a`^[^_aX`aNW`]P¥GQQXQa[[V_RZ]^PJPYRBBBBB
@HWI-EAS443:3:14:1241:531#0/1
ATCAAAGCGTCATTACTTATGAAAACAACACTTGGGTAAA
+HWI-EAS443:3:14:1241:531#0/1
]S[F[[`[^[X¥]¥^X^^_aa`]ZWW[S¥`]_^``_Q___
@HWI-EAS443:3:14:1307:807#0/1
GTGGGTTGGTCTTGGCCAGACGGTGCTGAGTTGCCATTTA
+HWI-EAS443:3:14:1307:807#0/1
a_aaa]^`_UZ``^`aXSXSU[VS^W^ZW^YW[SXZZ^¥R
@HWI-EAS443:3:14:1362:385#0/1
CTTTAACACAGCCACTGCCCATTTGTCTGGGCCAGAAATT
+HWI-EAS443:3:14:1362:385#0/1
`_S¥aa]a]ba[Y^^aX^a]_aaa`]]_Y`TPX`__WTYZ
@HWI-EAS443:3:14:1384:1196#0/1
CGTTTCGGATCCCAAATCATCTCAAACCCTTTCTTGAAC
+HWI-EAS443:3:14:1384:1196#0/1
`aSZVaX^XbbVaS__^YV`bZR[[]]H]b_]a^b[¥¥a^^
@HWI-EAS443:3:14:1435:250#0/1
GGGGGATGTGTTTGTCTATAAGGGAACCATTTCATATCATGC
+HWI-EAS443:3:14:1435:250#0/1
^R^^a^_a```^`a`^^X¥¥^^¥YV[ZZ^[^V^^_]SV^WT
@HWI-EAS443:3:14:1453:2006#0/1
TGTGCATGTGTAAATGGTTCTTGCTTTACTGTAATGACCG
+HWI-EAS443:3:14:1453:2006#0/1
abaa`aaa_aUbaab`_aaaa[]aaaaWaY_a`]a`]_^
@HWI-EAS443:3:14:1498:1238#0/1
TCAGGATATAGCGGGAGTTTTGTTTCAGCATCCAGAACTAA

+HWI-EAS443:3:14:1498:1238#0/1
_`b`¥baaaba`aaP_Q]``R`Z`_`^`^W^¥_W^R`]¥
@HWI-EAS443:3:14:1561:1611#0/1
CACATGTGTGTGCAGGGATAACTGGCATGGCTCGAATCGA
+HWI-EAS443:3:14:1561:1611#0/1
S¥`U`a^`[`VTaJ¥`aa^`_`_a`a`aa`aS_aZUNRPTBB
@HWI-EAS443:3:14:1589:1127#0/1
CACAGTGTCACTGTTTACACCACAAAAGGATATGCTGCTC
+HWI-EAS443:3:14:1589:1127#0/1
abbab_a``aaabaaba¥a_U`_``___a`___a¥^¥Y_T
@HWI-EAS443:3:14:1593:224#0/1
AGCATATCCTTTTGTGGTGTAAACAGTGACACTGTGGGT
+HWI-EAS443:3:14:1593:224#0/1
_ZUU¥]a[¥aaaa` `[Z]]`a[[]]¥PULNFTaR][^MQ
@HWI-EAS443:3:14:1598:640#0/1
ATAGCGGGAGTTTTGTTTCAGCATCCAGAACTAACAGGGCT
+HWI-EAS443:3:14:1598:640#0/1
aab`aaaa^bPaaa_GRa__Z`]X]_aM^U]X`G^`RY]W
@HWI-EAS443:3:14:1610:1667#0/1
TGCATGTGTAAATGGTTCTTGCTTTACTGTAATGACCGAT
+HWI-EAS443:3:14:1610:1667#0/1
TX`Tb^L`_a¥S`aaZa^`aa___`_]aX_____WT^S_
@HWI-EAS443:3:14:1625:199#0/1
GTGCATGTGTAAATGGTTCTTGCTTTACTGTAATGACCGA
+HWI-EAS443:3:14:1625:199#0/1
RWY_X``a^¥T0]¥baRTFWPUZ_Y`^`]`a[_aZ[VQ¥^^
@HWI-EAS443:3:14:1730:1742#0/1
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+HWI-EAS443:3:14:1730:1742#0/1
aYSX[aa`^H``aa]X^]W`__Q¥___0`[]_`[Y`V¥[^W
@HWI-EAS443:3:14:1741:261#0/1
GAGAGGAATTGCCCGCTAATTTACGGAAACCACTGACTG
+HWI-EAS443:3:14:1741:261#0/1
aaa_aa__`_]N_U_]Z^_]U]U__Y]XWS]XY^XRUX
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+HWI-EAS443:3:14:187:1390#0/1
aba]baba`aU_a[Xa`aa`aa_a`aaa`Xa`aa^`a_QY
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+HWI-EAS443:3:14:193:873#0/1
a]I]a`_aaRaU]aXW_a`X`U`WV[_W^^]^_Y_^]_^X
@HWI-EAS443:3:14:284:1528#0/1
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+HWI-EAS443:3:14:284:1528#0/1
a`aa¥aaaabaaa`^]`a_a``^aa^aa_____`_]`_¥^
@HWI-EAS443:3:14:334:1296#0/1
CAAAATCAGATTGAAACATGCAATCAAAGCGTCATTACTT
+HWI-EAS443:3:14:334:1296#0/1
aa_¥bb`X`aabaab`aaaaaaaa`b_aaab^aaa__`_`

@HWI-EAS443:3:14:35:2025#0/1
GATGATTTGGGATCCGAACGGATGGACTGGGACAGACAAT
+HWI-EAS443:3:14:35:2025#0/1
_YZ][^W_ZY]R_`)]¥a^`ZPX¥Z[TPU[YTTXVUQU_S
@HWI-EAS443:3:14:37:227#0/1
CTGGGCCAGAAATTCCAATTGTTAGCCAATTGATGCCATC
+HWI-EAS443:3:14:37:227#0/1
aaa`]aaaaaa¥a_a``aaaa___^___^``_¥]`^_]X
@HWI-EAS443:3:14:439:1532#0/1
GCCCCGTAATTTACGGAAACCACTGACTGTCCAGCAGCA
+HWI-EAS443:3:14:439:1532#0/1
`bbbaaaaba_^aba`aa]a_`a`a`a`a^S`__`¥]¥BB
@HWI-EAS443:3:14:480:1213#0/1
GACATATGTTAACATCAGCAACACCAACTTTGCTGCTGGA
+HWI-EAS443:3:14:480:1213#0/1
`aa_baaa^bb]aab__a`aaUba]b`]a]¥aW_^¥^`¥X
@HWI-EAS443:3:14:484:151#0/1
ATCGAACCTAATGAGCTGTCCTATTGGTGAAGTTCCTC
+HWI-EAS443:3:14:484:151#0/1
a`a`^`_]a^SYG¥_¥S¥aZ[T^GZ_aY0a_W]ZRX]^OX
@HWI-EAS443:3:14:533:920#0/1
GAATGTGCATGTGTAAATGGTTCTTGCTTTACTGTAATGA
+HWI-EAS443:3:14:533:920#0/1
a`bb`aaa`ba]b^aa[baa]aaa`aaaaaaaa`baaaa
@HWI-EAS443:3:14:557:1871#0/1
AGCCACTCAATTCAACTTGGGAATCAAAATCAGATTGAAA
+HWI-EAS443:3:14:557:1871#0/1
a^X^b¥`aa`[¥[WY¥T^P^W[_]_]VP]_[QaW]^`[^Y
@HWI-EAS443:3:14:572:1316#0/1
CAGACTCTTGTTCTCAATATATTGTTTCTCCAACCTT
+HWI-EAS443:3:14:572:1316#0/1
abaaaa`[aa__`aa`a^_a`a`aXa`a`^`aa]]^_U
@HWI-EAS443:3:14:598:1494#0/1
GGAGAAACAATATATTGAGAACACAAGAGTCTGAATGTGC
+HWI-EAS443:3:14:598:1494#0/1
``^¥a^[`baaabaaaa`_]aaa]aa`a^^Za_a`a_W_`
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+HWI-EAS443:3:14:650:1142#0/1
aaaaaa`W`_VY_^^[ZU¥_Y`X_Z_Y¥X¥PVVUW]]X
@HWI-EAS443:3:14:689:1263#0/1
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+HWI-EAS443:3:14:689:1263#0/1
a`bXZa`baa_aaaa]aaa`aVZ¥a[UTEU[YJW^W_]Z^
@HWI-EAS443:3:14:764:527#0/1
ACAATTGGAATTTCTGGCCAGACAATGGGGCAGTGGCTG
+HWI-EAS443:3:14:764:527#0/1
aaaZaaa`a_aa`[^`^a_`__V^^W`a^_¥UU`S^BBBB
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+HWI-EAS443:3:14:766:1049#0/1
abaaaa]a^aa`_]¥Y¥a_XVZ^¥_W_^V¥Z[W[UTGT
@HWI-EAS443:3:14:81:478#0/1
TGGGTTGGTCTTGGCCAGACGGTGCTGAGTTGCCATTTAC
+HWI-EAS443:3:14:81:478#0/1
aaba__a__aaa`aa_Z```aaT``_a^^R¥_`ZVZ^`^^
@HWI-EAS443:3:14:852:300#0/1
AACTAATGCTTTTTAGTTCTCCCTATCCAAACACCATTGCC
+HWI-EAS443:3:14:852:300#0/1
aZX¥ZaZz_a_XX`^`[]Z_H[0¥_]_]_QZX_VV^¥W^[[
@HWI-EAS443:3:14:895:1120#0/1
CTGATATTCCAGATTCTGGTTGAAAGACACCCACGGTCGA
+HWI-EAS443:3:14:895:1120#0/1
abb^bbbaabaaaaaaa`a`¥_`_a__`_Z_¥a_VV`^
@HWI-EAS443:3:14:914:599#0/1
ATGATTTGGGATCCGAACGGATGGACTGGGACAGACAATA
+HWI-EAS443:3:14:914:599#0/1
`_¥T]¥R_V_a^`Ra[aUUWX_YU[G^RPWHHX`^M^ZV_
@HWI-EAS443:3:14:916:1460#0/1
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+HWI-EAS443:3:14:916:1460#0/1
aaa`a^aa`_a_]^`_^_^^_¥_W¥_^W¥UW¥WN
@HWI-EAS443:3:14:963:1835#0/1
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+HWI-EAS443:3:14:963:1835#0/1
[a`ab¥_a`]_a`abaa]UV_a`__a^__UR[^ZZI_`^
@HWI-EAS443:3:14:980:1432#0/1
GATTCTGGTTGAAAGACACCCACGGTCGATTGAGCCATG
+HWI-EAS443:3:14:980:1432#0/1
a`X]]ZXYYZZ¥^aaRRZY_`[RRVIYXYUVSUTRBBBBB
@HWI-EAS443:3:15:1007:1294#0/1
CAAACTCCCGCTATATCCTGACCACTCATTTATTCCTAC
+HWI-EAS443:3:15:1007:1294#0/1
aaabbabbbbabbbaa`aaba`aaaaabaaaa`aaba
@HWI-EAS443:3:15:100:690#0/1
CAACTGCCTGTCTTATCATTAGGGCGTGGATTGTCTCCGA
+HWI-EAS443:3:15:100:690#0/1
^bY^^^_`bbaaba`bab]abbYaa^_a`aaa¥SV_aba
@HWI-EAS443:3:15:1030:515#0/1
CACTGACTGTCCAGCAGCAAAGTTGGTGTGCTGATGTTA
+HWI-EAS443:3:15:1030:515#0/1
abbabbbb_aa`aaaaV¥_]b¥a]^`^a__`aWYa^_`^
@HWI-EAS443:3:15:1113:139#0/1
TATGAATGGTCCCTTATGACAAACACATCCCCCTTGAA
+HWI-EAS443:3:15:1113:139#0/1
¥Yaba^ab_Q]a_]Z`__V__XZa_^^^`_¥_^U]^__
@HWI-EAS443:3:15:1184:1172#0/1
CAACTGCCTGTCTTATCATTAGGGCGTGGATTGTCTCCGA
+HWI-EAS443:3:15:1184:1172#0/1
ababbbba```a`bbbbabbaaaTaaa_a`a^a]_^a_aa_

@HWI-EAS443:3:15:1306:477#0/1
TTGTCATTTAGCAAGGCCCTTGAGTCAAGAAGAAGGTTC
+HWI-EAS443:3:15:1306:477#0/1
ab^[^^`a``^`_Q^_]a`a^a]UY]^W[_^_`¥UUZ
@HWI-EAS443:3:15:1543:1105#0/1
ACTGATTTGACTATCTTTCCCTTTTCTATTCTGAAGATCT
+HWI-EAS443:3:15:1543:1105#0/1
aabbaabbbba`aab_bbb`_`abbaYaaaa_aa^Y`aa^a
@HWI-EAS443:3:15:1589:1880#0/1
ACCACAACTGCCTGTCTTATCATTAGGGCGTGGATTGTCT
+HWI-EAS443:3:15:1589:1880#0/1
]a`baaa_b`]¥aK^a^`a`_a__a]YP¥]U]]Z_aLDN
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CCCCTAATTATCACTATGAGGAATGCTCCTGTTATCCTGA
+HWI-EAS443:3:15:158:706#0/1
abbaaaaaabaabaaaaaaa[Z_`^`a`aa_`]aa`]¥
@HWI-EAS443:3:15:1593:865#0/1
GGAGCAGCATATCCTTTTGTGGTGTAAACAGTGACACTGT
+HWI-EAS443:3:15:1593:865#0/1
abbb`bbabbab__bbba^a`_aaa`a_a``baW`¥a^¥
@HWI-EAS443:3:15:1619:1508#0/1
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+HWI-EAS443:3:15:1619:1508#0/1
aa[T^bYaa][ZGZ_^][]^N^ZX^^`_XRW^P[NVZSQS
@HWI-EAS443:3:15:1647:1878#0/1
ACCATTTACACATGCACATTGACTCTTGTGTTCTCAAT
+HWI-EAS443:3:15:1647:1878#0/1
`KY``bb_a`R¥aa`aba`[¥``¥YR]^`Ua¥S_¥TaY_
@HWI-EAS443:3:15:1704:798#0/1
GGAATGTTTGTCAATTTAGCAAGGCCCTTGAGTCAAGAAG
+HWI-EAS443:3:15:1704:798#0/1
abaabbXa`^`Y_a``a`YP]^`_ZXGZ```_TF]U¥]V]
@HWI-EAS443:3:15:1712:1759#0/1
CTGTGTTAAAGTACAACGGCATAATAACAGACACTATCAA
+HWI-EAS443:3:15:1712:1759#0/1
`aaUa¥b`_abWaX`a¥bbb_b_`_[a¥bO^ab`baTKW^
@HWI-EAS443:3:15:1732:636#0/1
GCCCCGTAATTTACGGAAACCACTGACTGTCCAGCAGCA
+HWI-EAS443:3:15:1732:636#0/1
a`a_a_a_aaaa_a^aa_`_¥V_`^¥_]`^W^WXS¥WQW_QR
@HWI-EAS443:3:15:1759:106#0/1
GTGGGATTTTCGGAGACAATCCACGCCCTAATGATAAGAC
+HWI-EAS443:3:15:1759:106#0/1
^babbabbbabb_b`aaaaZ``Xa¥QWq_`^`a_a`¥a_¥
@HWI-EAS443:3:15:208:1674#0/1
ATTCCAGATTCTGGTTGAAAGACACCCACGGTTCGATTCTGA
+HWI-EAS443:3:15:208:1674#0/1
a_W_]a`_a`_]`^P_`Y`^MY_a`a_`a__VTQUWV¥MG
@HWI-EAS443:3:15:231:811#0/1
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+HWI-EAS443:3:15:231:811#0/1
abab_b`abbabbbbbbababbaabababb^b¥bbb`b
@HWI-EAS443:3:15:251:527#0/1
CTGTCCCAGTCCATCCGTTCGGATCCCAAATCATCTCAAA
+HWI-EAS443:3:15:251:527#0/1
a]]T__¥R`a^`a`ZVG¥UV`ZYa[[¥_ZR]_WYZTZa
@HWI-EAS443:3:15:309:1498#0/1
GCCCCTAATTACTATGAGGAATGCTCCTGTTATCCTG
+HWI-EAS443:3:15:309:1498#0/1
`aaabaabaaba_a_aaa_a`_aa^a_aa_a_]a`_¥a
@HWI-EAS443:3:15:372:1117#0/1
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+HWI-EAS443:3:15:372:1117#0/1
`UU`^ab_bba]¥I]a`S^¥`U`b]X__a`[Xa``]Xa_a
@HWI-EAS443:3:15:382:696#0/1
CACCCACGGTCGATTCGAGCCATGCCAGTTATCCCTGCAC
+HWI-EAS443:3:15:382:696#0/1
^_a__[¥__]V_WTZ[WX]ZU^]_¥]¥_N^b_MJTZP¥U^
@HWI-EAS443:3:15:394:603#0/1
GTCTGTTATTATGCCGTTGTACTTTAACACAGCCACTGCC
+HWI-EAS443:3:15:394:603#0/1
a]aa]Uaaaa]aa`aYa]Xa_aaaa`]a`a^^Z¥Y¥_[V
@HWI-EAS443:3:15:426:201#0/1
CAGACATATGTTAACATCAGCAACACCAACTTTGCTGCTG
+HWI-EAS443:3:15:426:201#0/1
`abba`abaaaaba^abaa`baaa_aaa^`Ua__a^¥`
@HWI-EAS443:3:15:47:1706#0/1
CATGTGTAATGGTTCTTGCTTTACTGTAATGACCGATGG
+HWI-EAS443:3:15:47:1706#0/1
^`baa_V`¥¥aWaMH_b]YYa`^Y¥WRGaaV`_]R^]MX^
@HWI-EAS443:3:15:489:1121#0/1
GGCTGTGTTAAAGTACAACGGCATAATAACAGACACTATC
+HWI-EAS443:3:15:489:1121#0/1
_^`abYa[aaaa]`YX_ZQWUXX]_`a^Z__^YZ_]_U^
@HWI-EAS443:3:15:495:253#0/1
GAAAGACACCCACGGTCGATTCGAGCCATGCCAGTTATCC
+HWI-EAS443:3:15:495:253#0/1
aa`a__aa_ZY]¥`S¥VPNWPZNOQKKNWUWPWUWWSRU
@HWI-EAS443:3:15:547:1906#0/1
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+HWI-EAS443:3:15:547:1906#0/1
aa^aVb`b`_`__^`__aZS_^Z`Xabaaa`W^a^`¥W
@HWI-EAS443:3:15:640:93#0/1
AACAGACACTATCAAGAGTTGGAGAAACAATATATTGAGA
+HWI-EAS443:3:15:640:93#0/1
YS¥Xaaaba^aa`_VQ`_`baXOS]__[a¥R`]_`a^a_
@HWI-EAS443:3:15:663:1700#0/1
AAGAGTTGGAGAAACAATATATTGAGAACACAAGAGTCTG
+HWI-EAS443:3:15:663:1700#0/1
YYYY_V¥¥[Zaa^a^b]ba`aaaZa¥¥aV`Wb^a¥^IZVT

@HWI-EAS443:3:15:682:303#0/1
CGGGCAATTCCTCTCTCTGCCCTGTTAGTGGATGGGCTAT
+HWI-EAS443:3:15:682:303#0/1
aba_¥¥`__`^_¥aab^Ya`a]`_^`TZTaa^]]]]OPJV
@HWI-EAS443:3:15:693:1157#0/1
TGGCTGTGTTAAAGTACAACGGCATAATAACAGACACTAT
+HWI-EAS443:3:15:693:1157#0/1
a¥`^^^V^Y]aa_¥K[TY^_a_]YT^____[R¥^]_YT^[
@HWI-EAS443:3:15:699:484#0/1
CAAAACCGTTTCTTGAACATAATGCTTTTAGTTCTCCCTAT
+HWI-EAS443:3:15:699:484#0/1
OY¥¥` [YZ_[S[^`a]XaYTN]`¥^]_STLZXQW_[T
@HWI-EAS443:3:15:732:1406#0/1
ATCCCAAATCATCTCAAACCGTTTCTTGAACATAATGCTT
+HWI-EAS443:3:15:732:1406#0/1
aaaa[aaaaaaaa`aa_aa^_a^_a^_a]____`^]a^__a[]
@HWI-EAS443:3:15:780:1605#0/1
ATTGTCTCCGAAAATCCCACTGCATATGTATCCTATCTGA
+HWI-EAS443:3:15:780:1605#0/1
`_aa`b`b¥¥`aa_`aaaa_`aZ`^`^`^`^aa^[]`0_]S]
@HWI-EAS443:3:15:824:162#0/1
GGGAACCTCACCAATAGGACAGCTCATTAGGGTTCGATAT
+HWI-EAS443:3:15:824:162#0/1
aab_aaa_`____a]`_^`]^_]^^Y^^Y`¥]Y^^_^^Y^
@HWI-EAS443:3:15:862:347#0/1
AGAAATCCAATTGTTAGCCAATTGATGCCATCATGACAA
+HWI-EAS443:3:15:862:347#0/1
ababbbbbbbbabab`baabaaaaaaaa`aa`_aaa``aa
@HWI-EAS443:3:15:953:1013#0/1
GCGGGAGTTTTGTTTCAGCATCCAGAACTAACAGGGCTGGA
+HWI-EAS443:3:15:953:1013#0/1
^]abbX¥```aaZa`ZOQ^`¥ZU_[V]Xa[¥`UWSaa__
@HWI-EAS443:3:16:1024:1728#0/1
CTGTCCCAGTCCATCCGTTCCGATCCCAAATCATCTCAAA
+HWI-EAS443:3:16:1024:1728#0/1
aaaaa_aa`]a`aX_¥_PRZ[a^^_aV[]UY[^RVZV^X]
@HWI-EAS443:3:16:1039:1476#0/1
GGCTGTGTTAAAGTACAACGGCATAATAACAGACACTATC
+HWI-EAS443:3:16:1039:1476#0/1
aaabb[a_aaaa_`^[_`_`][a```a`a[a_____^__^]
@HWI-EAS443:3:16:1061:1122#0/1
CGTTCCGATCCCAAATCATCTCAAACCGTTTCTTGAAC
+HWI-EAS443:3:16:1061:1122#0/1
aa```aaa`a^_a`aaaaaaaa^`a`a`^W`_____aa]^a
@HWI-EAS443:3:16:1076:403#0/1
CTTCCCTTTTCTATTCTGAAGATCTTGATGAGGCCTGT
+HWI-EAS443:3:16:1076:403#0/1
a`]¥]^_W_a`UaVZ][U^_X[R`____a[_`a`[[UQ^]X
@HWI-EAS443:3:16:1142:633#0/1
GTCTGTCCCAGTCCATCCGTTCCGATCCCAAATCATCTCA

+HWI-EAS443:3:16:1142:633#0/1
_ [` a [[^ a a] ^ a T ` a `] ^ a X [] ` Z Z Z] _ [Z [` ^ ¥ Y [^ X U ^
@HWI-EAS443:3:16:1254:956#0/1
CTCAAATCTTGAGTTGTATGGAGAGGGAACCTCACCAATA
+HWI-EAS443:3:16:1254:956#0/1
aaaaaabaaaaab_aaYaab`_a¥aaa]_^a`_a__a^_a
@HWI-EAS443:3:16:1277:1323#0/1
GGATATAGCGGGAGTTTTGTTTCAGCATCCAGAACTAACAG
+HWI-EAS443:3:16:1277:1323#0/1
abaab`bbaaab¥b_aaaV`_`a¥_____]`_`_aY]¥_X^_
@HWI-EAS443:3:16:1351:672#0/1
CTTGGAATGCAGAACCTTCTTCTTGAAGGGGCCTTG
+HWI-EAS443:3:16:1351:672#0/1
^aX_a`_¥_a^a^ba]_Ybb^Z`_`a^`¥`b_[` [` UN`aa
@HWI-EAS443:3:16:1382:496#0/1
GTACTTTAACACAGCCACTGCCCCATTGTCTGGGCCAGAA
+HWI-EAS443:3:16:1382:496#0/1
a`_[a[a]a]^[_XNY__`_]Q[T]VU[WYVSV]RTNSX^
@HWI-EAS443:3:16:1408:1299#0/1
CCGTTGACTTTAACACAGCCACTGCCCCATTGTCTGGGC
+HWI-EAS443:3:16:1408:1299#0/1
abbaabaa`babab`aba^_aa`_`_`_`_aaX[V__S¥¥
@HWI-EAS443:3:16:1410:1348#0/1
GCGGGAGCAGCATATCCTTTTGTGGTGTAACAGTGACAC
+HWI-EAS443:3:16:1410:1348#0/1
¥^a`babbba`bbbbabababb`aa]baab`_`^a`aa`a_
@HWI-EAS443:3:16:1439:120#0/1
TAAAAGCATTAGTTCAAGAAACGGTTTTGAGATGATTTGG
+HWI-EAS443:3:16:1439:120#0/1
abaaaaW^a`aaQ]^W]aXWZ^a_H[a^UPaZ^aZ^X__^
@HWI-EAS443:3:16:1448:315#0/1
GAGCCATGCCAGTTATCCCTGCACACACATGTGATTTAC
+HWI-EAS443:3:16:1448:315#0/1
^_b_Wa[` aZ^baa_a`X`__aa[^W_K¥aa]a^_^ [W_
@HWI-EAS443:3:16:1471:410#0/1
GTTTGGATAGGGGAGAACTAAAAGCATTAGTTCAAGAAACG
+HWI-EAS443:3:16:1471:410#0/1
a[aa^^[]_[UYZ__^Z_]__`UZ[___T_[X]]SS[X_
@HWI-EAS443:3:16:169:916#0/1
CGGCAATGGTGTGGATAGGGGAGAACTAAAAGCATTAGT
+HWI-EAS443:3:16:169:916#0/1
a_R`_aaaa[` aab[Y` ` `]]W^aaaaaaaa_a]aa^Z
@HWI-EAS443:3:16:1711:1301#0/1
CTGGACCACAACCTGCCTGTCTTATCATTAGGGCGTGGATT
+HWI-EAS443:3:16:1711:1301#0/1
[a^XS[¥__¥¥]]^W_[_X_¥^aYPY¥YQUS]YVQQZB
@HWI-EAS443:3:16:1729:238#0/1
ATTCAAATACGGCAATGGTGTGGATAGGGGAGAACTAAA
+HWI-EAS443:3:16:1729:238#0/1
a__ZX^^_¥^¥Z_^Yab¥Y`_ab`b[Z¥[¥a^a]WFUVZ¥

@HWI-EAS443:3:16:1739:1159#0/1
CAACTGCCTGTCTTATCATTAGGGCGTGGATTGTCTCCGA
+HWI-EAS443:3:16:1739:1159#0/1
ababbaabbbbbabbabbabXbaaaaaabbaaWa`a`
@HWI-EAS443:3:16:1753:412#0/1
CTGGCATGGCTCGAATCGACCGTGGGTGTCTTCAACCAG
+HWI-EAS443:3:16:1753:412#0/1
abababbbbbbb^Z[[W^_USVYM]b]GXLLTa`ZTYFY[Q
@HWI-EAS443:3:16:230:545#0/1
GGTGTCTTCAACCAGAATCTGGAATATCAGATAGGATAC
+HWI-EAS443:3:16:230:545#0/1
aa[`U_a`a`___`_^R[``_^]]Z_`_`W]]__XUL
@HWI-EAS443:3:16:246:1181#0/1
AGCACCGTCTGGCCAAGACCAACCCACAGTGTCACTGTTT
+HWI-EAS443:3:16:246:1181#0/1
]FZa_aa^`¥a`a`_a_[`¥`aV`¥`Z_W¥Y¥WNWZW^W
@HWI-EAS443:3:16:34:956#0/1
GCGGGCAATTCCTCTCTCTGCCCTGTTAGTGGATGGGCTA
+HWI-EAS443:3:16:34:956#0/1
ab`a`abaaa^`aa`a`_a^_aaa__`a¥¥`]`XPT]
@HWI-EAS443:3:16:361:1469#0/1
GTAGGAATAAATGAGTGGTCAGGATATAGCGGGAGTTTTG
+HWI-EAS443:3:16:361:1469#0/1
`_ab[___baaaaba_Za_V_[`¥]_]YX`^a^aG¥_^B
@HWI-EAS443:3:16:365:1303#0/1
TCCCAGTCCATCCGTTCCGATCCCAAATCATCTCAAAACC
+HWI-EAS443:3:16:365:1303#0/1
abbabaababaaaa__a[``_a`^`^`^`_a`_`^`a[[
@HWI-EAS443:3:16:421:711#0/1
AGTTCAAGAAACGGTTTTGAGATGATTTGGGATCCGAACG
+HWI-EAS443:3:16:421:711#0/1
`a_aaa`a__a_aa^a`a_`_`^`aaaXO`^¥]X¥X^Y`
@HWI-EAS443:3:16:437:1556#0/1
GGTGTAAACAGTGACACTGTGGGTTGGTCTTGGCCAGACG
+HWI-EAS443:3:16:437:1556#0/1
abYX_ababa_S_babbab_`]a`aaa¥aaaa]a^a`a_X
@HWI-EAS443:3:16:460:1934#0/1
GCGGGAGCAGCATATCCTTTTGTGGTGTAAACAGTGACAC
+HWI-EAS443:3:16:460:1934#0/1
a_]T`aaa`T¥^[^]aa¥Q^PRSOPQVRK_[a_]G`_M]`
@HWI-EAS443:3:16:51:1129#0/1
TGCCCCGTAATTTACGAAACCACTGACTGTCCAGCAGC
+HWI-EAS443:3:16:51:1129#0/1
aaabaaaaaabaab```_]aa````___```W^`TR[^Z¥
@HWI-EAS443:3:16:53:114#0/1
GTCCCAGTCCATCCGTTCCGATCCCAAATCATCTCAAAAC
+HWI-EAS443:3:16:53:114#0/1
aabbaabaa^`_aa]^^^X__[^X^^^XTPYZ^_`Z¥YW
@HWI-EAS443:3:16:584:707#0/1
CCTCTGATTAGTTCAACCCAGAAGCAAGGTCTTATACAAT

+HWI-EAS443:3:16:584:707#0/1
X`W]¥a``[`a_b`]a]¥Q_a^¥`Z^R¥a`bb¥```aa`a
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TCCAGATTCTGGTTGAAAGACCCCACGGTCGATTGAGC
+HWI-EAS443:3:16:58:560#0/1
aa`aYaaaa`_Xaa]^`a_aa¥^^`a¥[R][NY^Z^ZWZ
@HWI-EAS443:3:16:600:1074#0/1
CATGTGTAAATGGTTCCTTGCTTTACTGTAATGACCGATGG
+HWI-EAS443:3:16:600:1074#0/1
aabb^b`bbaaaa_aa`aY`_aa`aa`^aa`_aaaa`_`_
@HWI-EAS443:3:16:61:264#0/1
TGTCTTTCAACCAGAATCTGGAATATCAGATAGGATACAT
+HWI-EAS443:3:16:61:264#0/1
abZaaa`a¥a`ab`a___Waa_a_`_`_`ZU^_[^YXL_U
@HWI-EAS443:3:16:676:468#0/1
GGAGAAACAATATATTGAGAACACAAGAGTCTGAATGTGC
+HWI-EAS443:3:16:676:468#0/1
aa``a]``_`a_``_`a_``^^^`^___^^[^_`^¥[_[^]
@HWI-EAS443:3:16:698:371#0/1
ATCTTGCTTTATTGAGAAGTTATTGTCTGTCCCAGTCCAT
+HWI-EAS443:3:16:698:371#0/1
aaa`baaaaaaba`aaaaaaaa`_`aBBBBBBBBBBBBB
@HWI-EAS443:3:16:726:422#0/1
TGTGTTCTCAATATATTGTTTCTCCAACCTTGATAGTGT
+HWI-EAS443:3:16:726:422#0/1
ababbab_ababbbabbbab`ba^baa_```a_bab]``^
@HWI-EAS443:3:16:764:1404#0/1
CTGGACCACAACCTGCCTGTCTTATCATTAGGGCGTGGATT
+HWI-EAS443:3:16:764:1404#0/1
`^[^¥¥ab¥__T[a`¥Z^^_aa``aba```¥_¥a_[-_T]
@HWI-EAS443:3:16:783:1566#0/1
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+HWI-EAS443:3:16:783:1566#0/1
`baabaaabbbabbbabaaaaa`a`bbbababaaa`_a`
@HWI-EAS443:3:16:794:901#0/1
CTGCATTCCAAGGGGAGCATGATATGAATGGTCCCTTA
+HWI-EAS443:3:16:794:901#0/1
a_ba_aaaaa][`a`a_¥`_aa_]a``[Z_Y]U]_U_]
@HWI-EAS443:3:16:825:1444#0/1
GGTGTGGATAGGGAGAATAAAAGCATTAGTTCAAGAA
+HWI-EAS443:3:16:825:1444#0/1
a]b[aaba^^aaa``^a_]a`_`aa_a^^`YaS_^`Y_
@HWI-EAS443:3:16:867:1162#0/1
CTTTCAACCAGAATCTGGAATATCAGATAGGATACATATG
+HWI-EAS443:3:16:867:1162#0/1
aab^a_^abbaaaaaaaaaa]``a`ba_aaaaa_aZ`_a^Y
@HWI-EAS443:3:16:914:281#0/1
CAAGAGTCTGAATGTGCATGTGTAAATGGTTCCTTGCTTTA
+HWI-EAS443:3:16:914:281#0/1
HY^ababbbbbb`Ua^_bbbb¥b`b_Vbba¥bbbabab_b`

@HWI-EAS443:3:16:931:2014#0/1
GCCACTCAATTCAACTTGGGAATCAAAATCAGATTGAAAC
+HWI-EAS443:3:16:931:2014#0/1
S`b_aabaaababaa^_ab_bbbbbbaaababbabbbb
@HWI-EAS443:3:16:936:120#0/1
GTGTAAACAGTGACTGTGGGTTGGTCTTGGCCAGACGG
+HWI-EAS443:3:16:936:120#0/1
aZ^Y]]Z[Ta^Z^X_Z`ZaaaS`^]GU]`a`UZ]BBBBB
@HWI-EAS443:3:16:956:1200#0/1
CGGGAGTTTTGTTTCAGCATCCAGAACTAACAGGGCTGGAT
+HWI-EAS443:3:16:956:1200#0/1
ab_aa¥MYa`¥^a`[[`_`[¥^`__a[a`_Z__]]`[`_]^
@HWI-EAS443:3:17:1005:1630#0/1
AGTCCATCCGTTCCGATCCCAAATCATCTCAAAACCGTTT
+HWI-EAS443:3:17:1005:1630#0/1
¥^¥aaaaaa]aa[ZX¥`aXaa`__a__]____a]]_Z^]
@HWI-EAS443:3:17:1022:1259#0/1
AGCACTTGCTGACCAAGCGACTGACTCAAATCTTGAGTTG
+HWI-EAS443:3:17:1022:1259#0/1
`S¥]^]JQY_^` `[X`Y^[Z_W]__S[T_Z`aVZWa¥
@HWI-EAS443:3:17:105:1160#0/1
GAAATTCCAATTGTTAGCCAATTGATGCCATCATGACAAG
+HWI-EAS443:3:17:105:1160#0/1
^Zb`bbb`S`b`aababbbba_aT^baaaabbaVabba
@HWI-EAS443:3:17:1097:1811#0/1
GGTGTAAACAGTGACTGTGGGTTGGTCTTGGCCAGACG
+HWI-EAS443:3:17:1097:1811#0/1
aa¥aZ_¥aaba^aaaa`a¥`W_WY^`^`^`ZT`_ZP_
@HWI-EAS443:3:17:1131:1618#0/1
GTTGTACTTTAACACAGCCACTGCCCATTTGTCTGGGCCA
+HWI-EAS443:3:17:1131:1618#0/1
aa¥WPZLZ¥`b_X¥S¥`QPWPXNa`]_VKW¥FRXPJLJWU
@HWI-EAS443:3:17:1216:513#0/1
TTCATATCATGCTCCCCCTTGAATGCAGAACCTTCTTCT
+HWI-EAS443:3:17:1216:513#0/1
a^VZaaa)`aa`a`^Q^]_YW__^]`^`^]`^_U^^_XU_
@HWI-EAS443:3:17:1230:217#0/1
ATCATGCTCCCCCTTGAATGCAGAACCTTCTTCTTACT
+HWI-EAS443:3:17:1230:217#0/1
abababaaa]aaa_aaa^[^a^_a^_Z¥_¥]_a¥_`^`^W¥
@HWI-EAS443:3:17:1243:598#0/1
GTGCATTGAGCCATGCCAGTTATCCCTGCACACACATGT
+HWI-EAS443:3:17:1243:598#0/1
a_a^¥aa]aa`_`aaaa[_a``¥a]]`]^`^][X_X_]`^
@HWI-EAS443:3:17:1287:1802#0/1
CAAAATCAGATTGAAACATGCAATCAAAGCGTCATTACTT
+HWI-EAS443:3:17:1287:1802#0/1
abbaabbbbababba`abbaabba`_]bVb`__aaa]a_
@HWI-EAS443:3:17:1309:754#0/1
GGGGGATGTGTTTGTGCATAAGGGAACCATTTCATATCATGC

+HWI-EAS443:3:17:1309:754#0/1
aa``aaabWb`a`_^[[aa```_`__aU`aa_R`____]_^`
@HWI-EAS443:3:17:1350:472#0/1
CTGGATTGTATAAGACCTTGCTTCTGGGTTGAACTAATCA
+HWI-EAS443:3:17:1350:472#0/1
^abaa_baR^)`aaa]a^b[aaaaaabUa`^aaa[[_`_
@HWI-EAS443:3:17:1353:864#0/1
AAATGGCAACTCAGCACCGTCTGGCCAAGACCAACCCACA
+HWI-EAS443:3:17:1353:864#0/1
aaaaa`a`babb_V``Y```_a`^U¥`]a_ZU^]R¥[_V_
@HWI-EAS443:3:17:1377:1839#0/1
ATTCTAGTAAAATCACATGTGTGTGCAGGGATAACTGGCA
+HWI-EAS443:3:17:1377:1839#0/1
aa_WWa`Xaa]Z``UXaaaU^ZaZ_FXT^YYVaHY_aXT`
@HWI-EAS443:3:17:1409:607#0/1
CAATCAAAGCGTCATTACTTATGAAAACAACACTTGGGTA
+HWI-EAS443:3:17:1409:607#0/1
abbbbaabbbab`abbbba_baabbaaaaaaba`a`a_aa`Y`
@HWI-EAS443:3:17:140:380#0/1
ATCCTTTTGTGGTGTAAACAGTGACACTGTGGGTTGGTCT
+HWI-EAS443:3:17:140:380#0/1
aaaZ^]aabRaa[¥X```_a`^^^^_adWa__X¥URRZ[
@HWI-EAS443:3:17:1419:783#0/1
AGGGCGTGGATTGTCTCCGAAAATCCCCTGCATATGTAT
+HWI-EAS443:3:17:1419:783#0/1
[^`^bbb^ab`abb`Y`^RYW_aaa[`aa_abaaa`baaaa
@HWI-EAS443:3:17:144:885#0/1
ATTCCAGATTCTGGTTGAAAGACACCCACGGTCGATTCGA
+HWI-EAS443:3:17:144:885#0/1
a]_`aa^a[aa`b`__aJTN¥__a_____`¥GVQPSVV^V
@HWI-EAS443:3:17:1456:901#0/1
CCAAGCGACTGACTCAAATCTTGAGTTGTATGGAGAGGGA
+HWI-EAS443:3:17:1456:901#0/1
abaaabb`abbaaba`a`b_aaa_a_aba`aaa]a_a^b_
@HWI-EAS443:3:17:1511:1013#0/1
GCAGAACCTTCTTCTTACTCAAGGGGCCTTGCTAAATGA
+HWI-EAS443:3:17:1511:1013#0/1
aaTKNFJ`a^a`aUTUP]X[RRG]VHX0^V_X]UJPU_G
@HWI-EAS443:3:17:1591:652#0/1
TGGATAGGGAGAACTAAAAGCATTAGTTCAAGAAACGGTT
+HWI-EAS443:3:17:1591:652#0/1
a`^¥¥`a____`__]_____^V^`¥^_]^[[_YY[U_[V^
@HWI-EAS443:3:17:159:1706#0/1
GTCAGGATATAGCGGGAGTTTTGTTTCAGCATCCAGAACTA
+HWI-EAS443:3:17:159:1706#0/1
`Rb^[UHS^YY]^Z_Xa][¥WXS[VYVW]]V_ZV]Y`VOZ
@HWI-EAS443:3:17:1636:155#0/1
CATCAATTGGCTAACAATTGGAATTTCTGGCCCAGACAAT
+HWI-EAS443:3:17:1636:155#0/1
abbaaabbbbaaaa``aaa]``aa`_a`^^`U__^W[___

@HWI-EAS443:3:17:1752:723#0/1
TGCAATCAAAGCGTCATTACTTATGAAAACAACACTTGGG
+HWI-EAS443:3:17:1752:723#0/1
ab¥V_]_¥¥QX[N_Y]U¥MV`[¥[[J¥`Z[`[[VU^^^B
@HWI-EAS443:3:17:192:817#0/1
AAATGAGTGGTCAGGATATAGCGGGAGTTTTGTTTCAGCAT
+HWI-EAS443:3:17:192:817#0/1
JP¥¥`^^`Ia^^^Zaa`Z_a^]VabaXXQ^a__]]ZVIIX[
@HWI-EAS443:3:17:201:1836#0/1
GAAGAAGTTCTGCATTCCAAGGGGGAGCATGATATGAAT
+HWI-EAS443:3:17:201:1836#0/1
`bbaab^aVaaabbaabbaba^_`^a_aa`a^a`a`a_
@HWI-EAS443:3:17:210:1269#0/1
AGCATTAGTTCAAGAAACGGTTTTGAGATGATTTGGGATC
+HWI-EAS443:3:17:210:1269#0/1
_Ya]¥`a`a^a__Z]V_baY_aYLP¥[`XL¥^aQ`^XUY
@HWI-EAS443:3:17:294:1546#0/1
CTTGGGAATCAAAATCAGATTGAAACATGCAATCAAAGCG
+HWI-EAS443:3:17:294:1546#0/1
aa_^_¥¥babYMYa[NUITSLLO_HOYTQNZ^ZL[_aN]B
@HWI-EAS443:3:17:316:383#0/1
CAACTGCCTGTCTTATCATTAGGGCGTGGATTGTCTCCGA
+HWI-EAS443:3:17:316:383#0/1
_U`a`aab_a_a`_aaaa_]V[¥[[_W]^W¥_¥¥^¥¥^¥¥
@HWI-EAS443:3:17:328:1374#0/1
TGGGACAGACAATAACTTCTCAATAAAGCAAGATATCGTA
+HWI-EAS443:3:17:328:1374#0/1
_aa`ab__ab_]aNaaaaaaaa¥aaaba`a`aa__a``¥a
@HWI-EAS443:3:17:32:368#0/1
CAGAGGGCGACCCAAAGAGAACAATCTGGACTAGCGGG
+HWI-EAS443:3:17:32:368#0/1
```]\_¥[baaZV`^[[W\_KTYXaYX`]T¥aZ^U^X`UXY  
@HWI-EAS443:3:17:384:781#0/1  
GCTGTCTATTGGTGAAGTTCCCTCTCCATACAACACTCAAG  
+HWI-EAS443:3:17:384:781#0/1  
aa`a]a`aa`\_W`\_`a¥^^`^`\_^`\_^`\_]\_\_\_ZZ^]]U`  
@HWI-EAS443:3:17:43:1169#0/1  
TGGTGTGGATAGGGGAGAACTAAAAGCATTAGTTCAAGA  
+HWI-EAS443:3:17:43:1169#0/1  
aa`]aU``]a]^aa\_]\_`^^`\_^`\_\_\_\_\_^^`\_`\_Z][\_]^[^  
@HWI-EAS443:3:17:459:544#0/1  
ATCCGTTTCGGATCCCAAATCATCTCAAACCGTTTCTTGA  
+HWI-EAS443:3:17:459:544#0/1  
a\_¥a^aaZZa\_\_\_\_^\_a\_```X\_^`\_`Y]Z¥\_S]X^XSW^  
@HWI-EAS443:3:17:494:1576#0/1  
GCGGGAGTTTTGTTTCAGCATCCAGAACTAACAGGGCTGGA  
+HWI-EAS443:3:17:494:1576#0/1  
aa\_`aZa^Q¥XZX\_\_\_\_W`a]\_\_\_\_\_`\_]`\_^`^Y¥[Y][Z  
@HWI-EAS443:3:17:505:83#0/1  
TGCAATCAAAGCGTCATTACTTATGAAAACAACACTTGGG

+HWI-EAS443:3:17:505:83#0/1  
abaaaa`M[a\_b\_\_aa`a^a\_\_`\_]`a\_a^\_\_^`\_]T  
@HWI-EAS443:3:17:52:1811#0/1  
CTCAATATGGATTAGCCACTCAATTCAACTTGGGAATCAA  
+HWI-EAS443:3:17:52:1811#0/1  
aabaaaa\_Y\_]`a^`aa`¥]aY\_U]`¥\_Y]\_`aa`a¥  
@HWI-EAS443:3:17:565:1953#0/1  
CATGATGGCATCAATTGGCTAACAATTGGAATTTCTGGCC  
+HWI-EAS443:3:17:565:1953#0/1  
a¥0¥GJR[aa\_\_[WV[¥U`R0]a\_\_]LKF^]\_\_]R[UTN  
@HWI-EAS443:3:17:594:1299#0/1  
ACTCAATTCAACTTGGGAATCAAAATCAGATTGAAACATG  
+HWI-EAS443:3:17:594:1299#0/1  
\_\_XV^XZ`^]XY`V`R^`[`T\_X`\_aa[aa¥`Y[Y¥a]0`  
@HWI-EAS443:3:17:594:132#0/1  
TCCCTCTCCATACTCAAGATTTGAGTCAGTCGCTTGG  
+HWI-EAS443:3:17:594:132#0/1  
abb[a[aa`ab[aab^aa`\_aN^aaaXaT\_`aGH[G[ZZ^  
@HWI-EAS443:3:17:664:1241#0/1  
ATCATGCTCCCCCTTGAATGCAGAACCTTCTTCTTACT  
+HWI-EAS443:3:17:664:1241#0/1  
]X\_^]]\_]\_a^`a`V`^aZ¥`^`\_\_aa\_\_\_\_\_````\_`^  
@HWI-EAS443:3:17:712:2014#0/1  
GATTAGTTCAACCCAGAAGCAAGGTCTTATACAATCCAGC  
+HWI-EAS443:3:17:712:2014#0/1  
aa^\_`SZaab\_S^\_\_\_\_a[FY\_`^X\_\_^\_Y`\_\_`\_0]]XP  
@HWI-EAS443:3:17:738:255#0/1  
CTGTCCCAGTCCATCCGTTCCGATCCCAAATCATCTCAAA  
+HWI-EAS443:3:17:738:255#0/1  
abb`aaaaa`baaaa\_a\_\_\_a\_Z\_Z\_a]`\_]\_Z\_\_¥`]Y\_\_  
@HWI-EAS443:3:17:852:712#0/1  
GCCCCGTAATTTACGGAAACCACTGACTGTCCAGCAGCA  
+HWI-EAS443:3:17:852:712#0/1  
abbba`a\_]`aabb^aaaab`\_a\_\_aaaaT¥]`\_a^NR  
@HWI-EAS443:3:17:891:1870#0/1  
ATCGGTTCCAAGGGGGATGTGTTTGTGATAAGGGAACCAT  
+HWI-EAS443:3:17:891:1870#0/1  
aab\_\_YH\_¥\_Y\_[]^]XYR`¥]]YY[WQ[ZIW\_Z]NNZS  
@HWI-EAS443:3:17:903:1066#0/1  
TCCTGTTATCCTGATTCTAGTGAAATCACATGTGTGTGCA  
+HWI-EAS443:3:17:903:1066#0/1  
ababbabbbbb`aaabbaaabb`bbb`abb`babab^`  
@HWI-EAS443:3:17:921:834#0/1  
TTCAAATACGGCAATGGTGTGGATAGGGAGAATAAAA  
+HWI-EAS443:3:17:921:834#0/1  
a`a¥]]aaba\_`^]`P^\_`¥]T¥\_\_a\_\_^W`^\_\_^\_\_  
@HWI-EAS443:3:17:93:1885#0/1  
GACATATGTTAACATCAGCAACACCACTTTGCTGCTGGA  
+HWI-EAS443:3:17:93:1885#0/1  
¥a]XSbba``¥`abbbb\_bbaabaababaaa[`a]aa^\_`



@HWI-EAS443:3:17:99:233#0/1  
CATGTGTAATGGTTCTTGCTTTACTGTAATGACCGATGG  
+HWI-EAS443:3:17:99:233#0/1  
aaaa[a¥\_`UZa¥R`^a\_aa^`]a\_]aa`a\_\_RaX]^`^  
@HWI-EAS443:3:18:1121:1505#0/1  
ATCAAAGCGTCATTACTTATGAAAACAACACTTGGGTAAA  
+HWI-EAS443:3:18:1121:1505#0/1  
aaaaaa`\_a^`aaaaaa\_`aaa`a`a`a`^`a`\_`^`[``a  
@HWI-EAS443:3:18:1177:1540#0/1  
CATTTAGCAAGGCCCTTGAGTCAAGAAGAAGGTTCTGCA  
+HWI-EAS443:3:18:1177:1540#0/1  
aaaa^b\_[Y]^a]]YT^`\_a^`a]\_[¥`[\_XYS\_[PVXX  
@HWI-EAS443:3:18:1194:1265#0/1  
GGCTCCTGTCTTTAATGGTTCCATTGGAATGTTTGTTCATT  
+HWI-EAS443:3:18:1194:1265#0/1  
a]W\_TUUa]^US]]a`¥QY^VXVXYN[Z^QW\_[VZTXUS  
@HWI-EAS443:3:18:1236:1858#0/1  
CATCAATTGGCTAACAAATTGGAATTTCTGGCCAGACAAT  
+HWI-EAS443:3:18:1236:1858#0/1  
abbbbbbbbaabbbbabbbb^ba\_`ab`a`^a^a`a¥^a\_  
@HWI-EAS443:3:18:1238:1847#0/1  
GGCCTTGCTAAATGACAAACATTCCAATGGAACCATTAAA  
+HWI-EAS443:3:18:1238:1847#0/1  
a\_b^U]^`bbaa`Zaaabba`aaaZ[aaaa`abaaa`````  
@HWI-EAS443:3:18:1264:1080#0/1  
AGCCACTCAATTCAACTTGGGAATCAAAATCAGATTGAAA  
+HWI-EAS443:3:18:1264:1080#0/1  
`^¥a`a^`¥X]a]Y`\_aa\_WWYa\_\_`\_aX^Za`\_\_\_\_\_^  
@HWI-EAS443:3:18:1376:757#0/1  
TTCAAATACGGCAATGGTGTGGATAGGGAGAACTAAAA  
+HWI-EAS443:3:18:1376:757#0/1  
a\_a`UU\_S\_aa\_MIS^\_]`\_aXaaSW^X`X]OW\_OWZUR^  
@HWI-EAS443:3:18:1402:700#0/1  
ACTGACTGTCCAGCAGCAAAGTTGGTGTGGCTGATGTTAA  
+HWI-EAS443:3:18:1402:700#0/1  
`a^]^ab`^``]¥W¥^PXTYZM¥]Z[``YOPXFIU]X[ZT  
@HWI-EAS443:3:18:1407:1678#0/1  
GTTGATATGGGCTCCTGTCTTTAATGGTTCCATTGGAAT  
+HWI-EAS443:3:18:1407:1678#0/1  
`^b\_]`ab]\_]`\_]\_Z[a^YQ]aaa^Y¥]^`^a\_aa\_`Z\_[  
@HWI-EAS443:3:18:1410:1716#0/1  
GGGCGACCCAAAGAGAACAATCTGGACTAGCGGGAGCA  
+HWI-EAS443:3:18:1410:1716#0/1  
`R¥\_VYR]U[¥W`¥aI`X¥RXZNP`\_P^`X¥Y`¥^BBBB  
@HWI-EAS443:3:18:1420:531#0/1  
GTGTAATGGTTCTTGCTTTACTGTAATGACCGATGGACC  
+HWI-EAS443:3:18:1420:531#0/1  
^]aK\_a]aa]T\_\_Z\_^Y\_`^`\_aa`aaWT¥]\_b\_^][PQH  
@HWI-EAS443:3:18:1456:259#0/1  
CAACTGCCTGTCTTATCATTAGGGCGTGGATTGTCTCCGA

+HWI-EAS443:3:18:1456:259#0/1  
`aaaaa\_aabaa`baaaaa^aX¥\_Z¥\_\_Z\_\_`^Q\_WQ`S  
@HWI-EAS443:3:18:1475:1304#0/1  
GTTTGTGATAAGGGAACCATTCATATCATGCTCCCCCTTG  
+HWI-EAS443:3:18:1475:1304#0/1  
a]¥Q\_aa\_]WSaaa`\_\_`\_\_`\_\_a\_\_\_\_XYZ¥\_T¥¥Y\_  
@HWI-EAS443:3:18:1497:235#0/1  
CCCTAATTATCACTATGAGGAATGCTCCTGTTATCCTGAT  
+HWI-EAS443:3:18:1497:235#0/1  
a¥M^`[]\_\_^`X\_`a\_\_¥QX\_YSZ[RRT`] ^URU¥ZZZ  
@HWI-EAS443:3:18:1519:761#0/1  
GCCCCGTAATTTACGGAACCACTGACTGTCCAGCAGCA  
+HWI-EAS443:3:18:1519:761#0/1  
a``[a`a\_a`aa[ `\_a`]\_^\_W¥`^¥\_]V^VRRSUUSQ  
@HWI-EAS443:3:18:1692:993#0/1  
GAATGCCCTAATTATCACTATGAGGAATGCTCCTGTTAT  
+HWI-EAS443:3:18:1692:993#0/1  
]ab[a¥V¥0^`Y]aZQ[[]]L]a\_]L]\_\_I]^\_Ua^\_\_W  
@HWI-EAS443:3:18:170:1833#0/1  
TGCATATGTATCCTATCTGATATTCCAGATTCTGGTTGAA  
+HWI-EAS443:3:18:170:1833#0/1  
¥]`b\_b\_KZbbbbababb\_a]^]\_aaa````a`aTY]R[[  
@HWI-EAS443:3:18:171:1458#0/1  
ATTCATATCATGCTCCCCCTTGAATGCAGAACCTTCTTC  
+HWI-EAS443:3:18:171:1458#0/1  
aaaabab\_aba\_a`\_\_a`^`\_`\_\_a]`\_\_`\_ZRY\_X]^`\_`  
@HWI-EAS443:3:18:1746:743#0/1  
GAAACAATATATTGAGAACAAGAGTCTGAATGTGCATG  
+HWI-EAS443:3:18:1746:743#0/1  
aaa[^a\_`aaa`\_a\_¥\_aa`Xa\_\_\_\_X\_`a\_^\_\_¥WV`\_`  
@HWI-EAS443:3:18:207:883#0/1  
TTCATATCATGCTCCCCCTTGAATGCAGAACCTTCTTCT  
+HWI-EAS443:3:18:207:883#0/1  
`[\_^aababbabbaabaa`W`TKZ`aaa¥^a\_\_`\_`\_`[`  
@HWI-EAS443:3:18:210:1309#0/1  
AATATATTGAGAACAAGAGTCTGAATGTGCATGTGTAA  
+HWI-EAS443:3:18:210:1309#0/1  
Kaba`¥`aa^^`aa\_bbb[aXJ[ba`ba[Ya\_Z\_```]Z]  
@HWI-EAS443:3:18:282:965#0/1  
CGGGAGTTTTGTTTCAGCATCCAGAACTAACAGGGCTGGAT  
+HWI-EAS443:3:18:282:965#0/1  
a]a\_T\_^aaaa^`aZ]aa`\_`a^¥aa\_``\_a\_\_[\_`a]]\_`  
@HWI-EAS443:3:18:33:255#0/1  
GACCACTATTTATTCCTACGATATCTTGCTTTATTGAGA  
+HWI-EAS443:3:18:33:255#0/1  
abbbababbbb`bbabb`\_baaa\_aa\_abaaaaa`Z`a\_  
@HWI-EAS443:3:18:356:798#0/1  
CTTGAATGCAGAACCTTCTTCTTGACTCAAGGGCCTTG  
+HWI-EAS443:3:18:356:798#0/1  
[`aaa`ba`^`Z``\_`\_aba`T^a`\_\_aaab\_]R^U`T`

@HWI-EAS443:3:18:367:1870#0/1  
TGCTGCTCCCGCTAGTCCAGATTGTGTTCTCTTTGGGTCCG  
+HWI-EAS443:3:18:367:1870#0/1  
Ubabbb`bba`a]b`IbaJWTa^SY\_Y`a\_aaSQU¥WYFH  
@HWI-EAS443:3:18:369:1235#0/1  
GGCAGAGAGAGGAATTGCCCGCTAATTTACGGAAACCAC  
+HWI-EAS443:3:18:369:1235#0/1  
¥`ab\_b\_Z\_bb\_ab\_`a]^bab\_babbb\_a\_]`R`]\_Y`\_  
@HWI-EAS443:3:18:423:1230#0/1  
AAATACGCAATGGTGTGGATAGGGAGAACTAAAAGCA  
+HWI-EAS443:3:18:423:1230#0/1  
^baaaabaaa^`ZYTaa^`[]`]\_\_^\_\_¥^[[a`W[]  
@HWI-EAS443:3:18:433:1070#0/1  
CAACTGCCTGTCTTATCATTAGGGCGTGGATTGTCTCCGA  
+HWI-EAS443:3:18:433:1070#0/1  
aaabaaabaa]aaaaUaaaa`UY`¥N\_`[¥Y`\_^\_a¥` [  
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GTCAGTGGTTTCCGTGAAATTAGCGGGCAATTCCTCTCTC  
+HWI-EAS443:3:18:44:537#0/1  
`\_b`b[b`¥`aa¥[Za`\_aa```a`\_`^]\_`\_`\_`\_Z\_¥  
@HWI-EAS443:3:18:479:322#0/1  
ACCACAACCTGCCTGTCTTATCATTAGGGCGTGGATTGTCT  
+HWI-EAS443:3:18:479:322#0/1  
aaaa]\_``aaaa\_a]a`a```\_a```]\_]X\_]`^\_\_^^^  
@HWI-EAS443:3:18:511:1176#0/1  
GGCCCCTTGAGTCAAGAAGAAGTTCTGCATTCCAAGGGG  
+HWI-EAS443:3:18:511:1176#0/1  
\_UVa^¥]\_Z^)^`XSHX]S\_ZZ[U¥RX^[Y]SV\_¥T[¥¥\_  
@HWI-EAS443:3:18:518:609#0/1  
GGATTGTCTCCGAAAATCCCACTGCATATGTATCCTATCT  
+HWI-EAS443:3:18:518:609#0/1  
G]b\_ba[bbbbbbbbbbbababbbbbbbbbbbbaabbbbab  
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GTGTAAATGGTTCTTGCTTTACTGTAATGACCGATGGACC  
+HWI-EAS443:3:18:560:1787#0/1  
^\_a]b`aUaaY`Q]¥VRbba^a¥b`a]\_a^^`a^`b\_S\_^  
@HWI-EAS443:3:18:603:1521#0/1  
CAGCAAGTGCTTGTCATGATGGCATCAATTGGCTAACAAAT  
+HWI-EAS443:3:18:603:1521#0/1  
`baba`S\_`]bbbVba^¥V¥`T`aXH\_\_Z][VX]`ab]RK  
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+HWI-EAS443:3:18:639:1889#0/1  
aaa`a\_a^a``\_\_a]\_`a^a``aa\_aaa^)``[[\_ZQLZ\_  
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+HWI-EAS443:3:18:653:465#0/1  
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+HWI-EAS443:3:18:656:456#0/1  
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+HWI-EAS443:3:18:684:980#0/1  
aaaa¥`aaa¥¥a]UV\_a\_aaVU]Z]P[^\_]\_]W]\_TUV  
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+HWI-EAS443:3:18:697:1370#0/1  
aaaabaaaaabbaaaa`[^Z^`\_\_a`a`^YZU\_\_^T  
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+HWI-EAS443:3:18:752:490#0/1  
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GAATCGGTTCCAAGGGGGATGTGTTTGTGCATAAGGGAACC  
+HWI-EAS443:3:18:797:142#0/1  
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ACCACAACCTGCCTGTCTTATCATTAGGGCGTGGATTGTCT  
+HWI-EAS443:3:18:821:553#0/1  
abba^abaaa`abaaaaaa\_aaa`^`a``]`\_\_\_`\_X^^  
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+HWI-EAS443:3:18:844:755#0/1  
a\_]`]a`¥```bababab`bab¥^a``abababa`\_a`a\_  
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+HWI-EAS443:3:18:854:1252#0/1  
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+HWI-EAS443:3:18:882:789#0/1  
\_``abbabaaaa]]TaaaaZ\_]^^^\_aa¥LR^¥\_\_\_\_Z\_  
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+HWI-EAS443:3:18:889:1047#0/1  
`VSSW]Y[Wa^XaXV]aXSTQYaG)`^UWY^S\_XN[]P]R  
@HWI-EAS443:3:18:893:1033#0/1  
CGATACTGGACCACAACCTGCCTGTCTTATCATTAGGGCGT  
+HWI-EAS443:3:18:893:1033#0/1  
aa`aaaa`\_\_a`a\_\_aa\_a`\_\_\_¥]a`\_Y¥^[ZUU^]ZU  
@HWI-EAS443:3:18:958:1140#0/1  
CATATGTTAACATCAGCAACACCAACTTTGCTGCTGGACA  
+HWI-EAS443:3:18:958:1140#0/1  
aaaaa\_a`aaa\_]ba]`a`\_\_\_aaX\_\_a`\_^aa`a]ZZ^

@HWI-EAS443:3:19:1000:1135#0/1  
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+HWI-EAS443:3:19:1000:1135#0/1  
ab^ZST`\_]`a[\_R^XUU\_Za`aaYN\_aX^[a\_\_UV]`P¥  
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CAAATACGGCAATGGTGTGGATAGGGAGAACTAAAAGC  
+HWI-EAS443:3:19:1006:1149#0/1  
aababbbbbbb\_aab\_X`ababX``abaa`[^\_aaa`^X  
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+HWI-EAS443:3:19:1039:1448#0/1  
abbbbbbbbababbbbaabaaba\_ab`aba^]a\_`a\_a\_  
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CCTATCTGATATTCCAGATTCTGGTTGAAAGACACCCACG  
+HWI-EAS443:3:19:1059:508#0/1  
aabaaabbaaaaaa`baa``aaa\_aa^`aaa`\_[^`\_]\_  
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+HWI-EAS443:3:19:1093:426#0/1  
abba[[aaaaaa`\_`b`\_a]aaa^aaaa]aa`aa\_]\_  
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+HWI-EAS443:3:19:1139:1880#0/1  
\_b`[\_baa]a^aa\_[^a`\_VZW¥]babb`aa`Z`\_HTZT[  
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+HWI-EAS443:3:19:1219:1229#0/1  
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+HWI-EAS443:3:19:1230:1011#0/1
abbbbbba]^b_ZUZ_^SYa¥_aY^a`^a_[LZ^aVQR[[
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+HWI-EAS443:3:19:1233:553#0/1
aa[^]a`_a_YFY`SXaWLPX_aa`^a`^b]ba]GR_U[_
@HWI-EAS443:3:19:1277:152#0/1
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+HWI-EAS443:3:19:1277:152#0/1
aaa`aW`_X_[a`a__[a[_]_^`^_GY_¥WV_¥__¥]_
@HWI-EAS443:3:19:1332:184#0/1
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+HWI-EAS443:3:19:1332:184#0/1
__bbabb`babVbbbaaaaaaab_baaabaVaa^aba_b]
@HWI-EAS443:3:19:1344:546#0/1
CAGTCGCTTGGTCAGCAAGTGCTTGTGCATGATGGCATCAA
+HWI-EAS443:3:19:1344:546#0/1
`^^aaabaa[] [W_^SY¥a^b___`Y`_`¥^`_`YP¥XP¥`
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+HWI-EAS443:3:19:1357:1319#0/1
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+HWI-EAS443:3:19:1358:1260#0/1
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@HWI-EAS443:3:19:135:436#0/1
TACAACCAAGATTTGAGTCAGTCGCTTGGTCAGCAAGTG
+HWI-EAS443:3:19:135:436#0/1
aaa_`_Y`_`b`¥aaaa`a_aab]`aaZQFZGPZ`¥Q¥[XP
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+HWI-EAS443:3:19:139:869#0/1
aP^aa_abaaaa^aaaa_`[]a____`_`____`__Z`__U
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ACTCAATTCAACTTGGGAATCAAAATCAGATTGAAACATG
+HWI-EAS443:3:19:1415:746#0/1
a^`¥^_`V`¥V[X^^`__^^X¥^`[_aX^_`¥UUX_W_
@HWI-EAS443:3:19:1430:1164#0/1
AACAATTGGAATTTCTGGCCCAGACAATGGGGCAGTGGCT
+HWI-EAS443:3:19:1430:1164#0/1
T`aa[V[b_b`bV]_]b[_]bI¥UHaJ_aZ_UG]`N__NB
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aab`_`aabaaa_aa_aV`a`_`____a^]`_W[_[^ZS¥
@HWI-EAS443:3:19:1580:348#0/1
TGTCATGATGGCATCAATTGGCTAACAATTGGAATTTCTG
+HWI-EAS443:3:19:1580:348#0/1
`[S0¥`^`_`[_`RX]_a_a`[]¥THV[`_¥[WXa^_UVS
@HWI-EAS443:3:19:1584:426#0/1
AACAGACACTATCAAGAGTTGGAGAAACAATATATTGAGA
+HWI-EAS443:3:19:1584:426#0/1
a_^`^¥^abab`a`b^a¥ab`_`a_a`^a_aaa`a_a`a`
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GATTTTCGGAGACAATCCACGCCCTAATGATAAGACAGGC
+HWI-EAS443:3:19:1586:129#0/1
a[aba__`Y^a`^`_][^a^aWRX_^____¥^_]YXOBBBB
@HWI-EAS443:3:19:1640:302#0/1
CAACTGCCTGTCTTATCATTAGGGCGTGGATTGTCTCCGA
+HWI-EAS443:3:19:1640:302#0/1
```bbb[\_bb[^bb]baabb[[bba]a\_baI`^Va`[X]I  
@HWI-EAS443:3:19:1650:256#0/1  
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+HWI-EAS443:3:19:1650:256#0/1  
¥¥\_XU[`b]ab\_a`^U\_b\_b`VZab\_¥\_^^XFG\_^¥N]R]  
@HWI-EAS443:3:19:1695:237#0/1  
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+HWI-EAS443:3:19:1695:237#0/1  
aaba\_baaH`aa`a^PV¥Wa\_\_[^]^\_XWQT¥U[\_UT]WV

@HWI-EAS443:3:19:1721:512#0/1  
AGACACTATCAAGAGTTGGAGAAACAATATATTGAGAACA  
+HWI-EAS443:3:19:1721:512#0/1  
aba`a¥aa`^aaa\_a\_aa`\_a`\_^`a¥\_\_`\_`\_] []P\_  
@HWI-EAS443:3:19:1725:799#0/1  
CAGGAGCATTCTCATAGTGATAATTAGGGGCATTCATTT  
+HWI-EAS443:3:19:1725:799#0/1  
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+HWI-EAS443:3:19:204:1274#0/1  
a[a¥\_\_[\_a`a^YR`^`X`\_`\_] [\_^\_\_\_\_^¥\_WUBBB  
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+HWI-EAS443:3:19:266:1349#0/1  
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+HWI-EAS443:3:19:329:115#0/1  
`a``baa`aarU`aY¥]\_^a\_¥`\_Z^\_WUT]]\_`X^ZUZ\_  
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GGCGACCCAAAGAGAACAATCTGGACTAGCGGGAGCAG  
+HWI-EAS443:3:19:369:954#0/1  
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+HWI-EAS443:3:19:408:443#0/1  
aaaa`a`^`aZa`¥`a\_aYya^`\_]`^\_a`a^aaa`^`  
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a\_abb`abbbbbXbaaW^aa\_a`aa`aaa`a``a^\_¥  
@HWI-EAS443:3:19:442:1064#0/1  
CGATACTGGACCACAACACTGCCTGTCTTATCATTAGGGCGT  
+HWI-EAS443:3:19:442:1064#0/1  
a`\_aX`aa`\_\_aa`a`^]`\_\_^aQW``a\_¥\_a¥\_UWN¥¥W  
@HWI-EAS443:3:19:564:271#0/1  
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+HWI-EAS443:3:19:564:271#0/1  
aaaab]baa[a\_ba`aaa\_\_aaa¥a0^a\_\_W^RZW[\_R¥U  
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+HWI-EAS443:3:19:603:1303#0/1  
aaabaaaaaaaaa]Y^a[a`a`^`aa\_\_a`^a``\_\_aa  
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AATGCAGAACCTTCTTCTTGGACTCAAGGGGCCTTGCTAAA  
+HWI-EAS443:3:19:682:137#0/1  
a\_aa`\_\_^a^[\_^]Z^\_\_^Z`^\_^\_\_Y]Z]^Z]ZZ^`  
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GTTCCCTTATGACAAACACATCCCCCTTGAACCGATTCT  
+HWI-EAS443:3:19:705:1448#0/1  
a^abba`ab\_a]W\_a`T`a`a^^X^a^`^^a^`\_[]]`  
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AGACATATGTTAACATCAGCAACACCACTTTGCTGCTGG  
+HWI-EAS443:3:19:729:1314#0/1  
Z¥Zb`^^W\_\_JX`^`^^W`R^[aba`\_[\_aaaZ\_PYH\_`  
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+HWI-EAS443:3:19:796:765#0/1  
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aaab]¥abaaa\_P¥a`a^`a\_a\_\_0\_^a\_\_`¥`¥^^SX\_`  
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+HWI-EAS443:3:19:875:607#0/1  
a]a\_`aaa^a\_a\_\_¥`a\_^`\_]`]0a\_]Z`^`\_^ZUXZ  
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+HWI-EAS443:3:19:917:212#0/1  
a^a`baa^a^a^Y\_Z\_`a`^a^a`a`a`a`\_a\_]`\_¥¥S`  
@HWI-EAS443:3:19:951:1422#0/1  
GGGAATCAAATCAGATTGAAACATGCAATCAAAGCGTCA  
+HWI-EAS443:3:19:951:1422#0/1  
aa]Y^`\_a\_\_\_Za[\_\_\_Y]¥Y]¥Wa\_a\_^X\_^]aY`SN[  
@HWI-EAS443:3:19:99:1370#0/1  
ATCCTTTTGTGGTGTAACAGTGACTGTGGGTTGGTCT  
+HWI-EAS443:3:19:99:1370#0/1  
`[a`ba\_`a]^^[^aY`bba`bX¥aa`bab¥^]\_\_a\_UST`  
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GGGATAACTGGCATGGCTCGAATCGACCGTGGGTGTCTTT  
+HWI-EAS443:3:1:103:96#0/1  
aaa\_a`\_]a`\_a\_\_\_\_^^\_¥P¥US[SLHXNV¥¥BBBBBBB`



@HWI-EAS443:3:1:1056:1395#0/1  
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+HWI-EAS443:3:1:1056:1395#0/1  
\_abbbabbbbbbba`aaa`b\_aaa[^\_aaa`aaZ`¥BBB  
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CGTTCCGATCCCAAATCATCTCAAACCCTTCTTGA  
+HWI-EAS443:3:1:1062:1325#0/1  
aaa^^`ab\_a\_\_aa`a`b`^a[\_\_\_`a]^b^^`I`[\_^\_XB  
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GGTTGAAAGACACCCACGGTCGATTGAGCCATGCCAGTT  
+HWI-EAS443:3:1:1127:788#0/1  
abQ]\_Q¥`X^\_\_KP]\_^]BBBBBBBBBBBBBBBBBB  
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+HWI-EAS443:3:1:1143:1434#0/1  
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+HWI-EAS443:3:1:1213:1514#0/1  
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+HWI-EAS443:3:1:1301:534#0/1  
]^`^¥XVH¥YF]NX¥ZTRWLTGNTXZa¥WRKKPFN]^XBBB  
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+HWI-EAS443:3:1:1313:2010#0/1  
a\_VUbI`Oaa\_a¥¥aP`^¥\_`a`^`a`\_a]¥`\_Y`^\_BB  
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CTTGGGAATCAAATCAGATTGAAACATGCAATCAAAGCG  
+HWI-EAS443:3:1:1333:1519#0/1  
¥abab`bbbb`babb¥bababbaabab`b`bbababbb]\_  
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CAAGTGCTTGTCATGATGGCATCAATTGGCTAACAATTGG  
+HWI-EAS443:3:1:1387:1838#0/1  
ab\_a`b\_\_ab¥a\_abaaba\_a`^abbbb\_a¥bbababbbB  
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a^IP]^`^TRS\_\_aa\_`¥Sa`]\_a]^V]```][Y\_¥VBBBB  
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+HWI-EAS443:3:1:1559:1446#0/1  
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+HWI-EAS443:3:1:1681:631#0/1  
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+HWI-EAS443:3:1:1714:96#0/1  
`\_]\_Sa^^¥[W^[\_]\_Y`Z^]SS^IZ\_P[^YY[[Y[WBBBB  
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+HWI-EAS443:3:1:1752:1303#0/1  
aaa\_aaa\_\_`aaY\_\_Y¥ZYZ]¥^\_\_\_\_X\_\_¥\_WR]ZW\_BB  
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+HWI-EAS443:3:1:177:1639#0/1  
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+HWI-EAS443:3:1:422:1029#0/1  
aa`aaa\_bbbaab\_`^`aa\_`aaa\_Y¥a]FJNO]BBBBBB  
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+HWI-EAS443:3:1:469:1318#0/1  
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+HWI-EAS443:3:1:510:722#0/1  
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+HWI-EAS443:3:1:554:983#0/1  
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+HWI-EAS443:3:1:56:456#0/1  
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+HWI-EAS443:3:1:802:1478#0/1  
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+HWI-EAS443:3:1:816:120#0/1  
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+HWI-EAS443:3:1:901:812#0/1  
ab`baba[`bb`bb^bba^[]abb[ab\_[R^a\_\_aI^\_aB  
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+HWI-EAS443:3:1:959:723#0/1  
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+HWI-EAS443:3:20:1034:2030#0/1  
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+HWI-EAS443:3:20:104:1345#0/1  
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+HWI-EAS443:3:20:1114:1264#0/1  
]SVQ][aaaa^]ST[]XV¥aa]aY`^]a``a]\_\_`\_`\_]^  
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abaa[Za^baaaa^]¥`U\_`a\_Qa\_¥RJT^[\_VYS¥W\_]\_  
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+HWI-EAS443:3:20:1157:1612#0/1  
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+HWI-EAS443:3:20:1233:1813#0/1  
a`a\_P^[\_a\_`¥PTRU\_aa\_\_[MY]]\_\_^\_\_[^`W`^\_OI  
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+HWI-EAS443:3:20:1277:343#0/1  
ab^a`Xaa`\_a^a[Z[aa^RW[\_`W\_`^`\_¥W\_S¥^¥Y¥¥Q  
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+HWI-EAS443:3:20:1310:1386#0/1  
^\_¥\_`^``aaa¥^\_\_aa]\_\_`^`b`]aaa`\_^]``\_]X[Y  
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+HWI-EAS443:3:20:145:1290#0/1  
aa^¥T\_¥`\_abb]aaa`a^Z[P[`XHRZ]ZOMSSRZQPU^  
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abaa\_ab\_a^abaaa````a\_]\_a```a`\_\_\_\_\_[^\_a[\_  
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+HWI-EAS443:3:20:163:315#0/1  
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+HWI-EAS443:3:20:1781:1065#0/1  
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^baaabba`a`aaaa\_a`\_`a`][¥a`\_\_\_^]]^]XYX  
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+HWI-EAS443:3:20:229:306#0/1  
]b`^^a\_`\_`Zab`WW``a]Z¥[¥`a^WO]`\_`a\_]a[Y  
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TCTGAATGTGCATGTGTAAATGGTTCTTGCTTTACTGTAA  
+HWI-EAS443:3:20:262:83#0/1  
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+HWI-EAS443:3:20:264:249#0/1  
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+HWI-EAS443:3:20:264:612#0/1  
aa\_`aab`Ua` ` `a\_`aaaa\_aa^R\_\_\_¥W]T\_]W]\_U[  
@HWI-EAS443:3:20:362:1131#0/1  
CTTGGTCCATCGGTCATTACAGTAAAGCAAGAACCATTTA  
+HWI-EAS443:3:20:362:1131#0/1  
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ATCAATTGGCTAACAAATTGGAATTTCTGGCCCAGACAATG  
+HWI-EAS443:3:20:378:687#0/1  
aYab` `]I[Y`aa¥X)` [ ]aaaa\_a]aaaZ\_\_aZTQZ\_a  
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+HWI-EAS443:3:20:392:1163#0/1  
a¥`a`aaa`V`b`aaa¥¥\_a\_aa¥a\_]¥[`¥a\_¥]\_Z]^U  
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aa]bYa`\_a`aa\_ba\_\_¥^` `aa¥a\_\_^[Y[]]^\_\_^]]M  
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aaaaaa¥b`a^\_a`aaaa`\_`a`aa\_` ` ` \_a\_\_[[\_\_[V\_  
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+HWI-EAS443:3:20:57:200#0/1  
XaaZabb\_TW¥[ZZXV\_V`¥`¥W¥`ZaY^YWY¥]N]¥V¥[  
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+HWI-EAS443:3:20:592:1103#0/1  
[Z[ ` `a\_]¥`U]aa\_YYU¥YXa)` `XMR¥\_`^RX` `Y]T`  
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+HWI-EAS443:3:20:598:504#0/1  
aaa¥aa0`\_a`a`^^`aaa[ ` `a\_a\_a\_Z\_`^`^a\_`V[\_  
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+HWI-EAS443:3:20:604:1416#0/1  
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GTCCAGCAGCAAAGTTGGTGTGCTGATGTTAACATATGT  
+HWI-EAS443:3:20:666:1203#0/1  
a\_`a` [ `aaaY^¥VZ]Z^T`\_a\_^^^Z[WR]^ZV¥]^XSY

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+HWI-EAS443:3:20:686:77#0/1  
a[aaaa[\_\_\_aa\_^`\_\_\_]\_]Z\_^\_]^\_Y[aUY]Z[^[ZVY]  
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+HWI-EAS443:3:20:730:1566#0/1  
`aa`^VW`M`]ZNVaS^a\_aa`]VGX\_PY`[]\_\_RZL[\_G  
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+HWI-EAS443:3:20:768:1338#0/1  
a`^\_\_\_\_`\_]`\_`^`\_\_a\_\_\_\_^]\_^^^]]U^^^]]]ZXX  
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N¥^aa\_Z`\_¥``bbbbbbZbaa\_a`a`aababbbb\_UX\_  
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+HWI-EAS443:3:20:802:634#0/1  
ababa`aaaa^^aa\_\_aaa\_aa```^\_\_`Va\_`\_\_^^Z^^  
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+HWI-EAS443:3:20:89:1575#0/1  
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ATCCGTTCCGATCCCAAATCATCTCAAACCGTTTCTTGA  
+HWI-EAS443:3:20:912:308#0/1  
aa\_a\_\_¥`\_V¥]\_X^\_Z\_]\_\_Z^Z^\_^^X]]Z]]Z]ZXZ  
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a]aaabbaa`aaaa\_aa\_`\_`[aa`\_a^`a`\_`X\_`\_]\_  
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+HWI-EAS443:3:20:960:1920#0/1  
aa]^abaaUW¥¥Xaaaa\_`^[Y[XQQ[\_^^^[\_`^¥[T^\_T  
@HWI-EAS443:3:20:997:37#0/1  
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+HWI-EAS443:3:20:997:37#0/1  
T\_`a\_]XW¥\_Y\_Ya^a`\_¥a[\_YW\_\_Y`bW\_[\_^]O[^\_V  
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+HWI-EAS443:3:21:1051:89#0/1  
a`ba[\_ba\_a`\_^`\_XX^\_V[¥a`UYVVX^S\_S¥UHWWV  
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+HWI-EAS443:3:21:1086:828#0/1  
¥¥^\_`Y¥`\_Z`XZ^^^`^]¥[`a^aR\_ZU¥a`a`XO[  
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+HWI-EAS443:3:21:1161:1266#0/1  
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+HWI-EAS443:3:21:1198:976#0/1  
abbbbaabbaaaa`aaaab\_aa\_aa\_aaa^`\_]\_^\_]a`\_\_  
@HWI-EAS443:3:21:1224:903#0/1  
GACCACTCATTTATTCCTACGATATCTTGCTTTATTGAGA  
+HWI-EAS443:3:21:1224:903#0/1  
aa`\_`a`aaaa`a`^\_`\_`\_\_\_\_\_]\_\_\_¥\_a`^`\_^\_]\_  
@HWI-EAS443:3:21:1236:1678#0/1  
CGCTTTGATTGCATGTTTCAATCTGATTTTGATTCCCAAG  
+HWI-EAS443:3:21:1236:1678#0/1  
`bbbaababbb`bab\_\_ba`aa`b`aaaababaaa\_\_a¥a  
@HWI-EAS443:3:21:1247:1221#0/1  
GCTAATTTACGGAAACCACTGACTGTCCAGCAGCAAAGT  
+HWI-EAS443:3:21:1247:1221#0/1  
aaaa\_aaaaa`aa`aa^a`\_`\_]`^`\_¥^^\_¥^[\_ZXXX]X  
@HWI-EAS443:3:21:1266:820#0/1  
GGAATATCAGATAGGATACATATGCAGTGGGATTTTCGGA  
+HWI-EAS443:3:21:1266:820#0/1  
aaaabaa\_a`Za\_aa`\_`\_]`^`\_\_R\_^Z¥a^^\_^Z\_]Y  
@HWI-EAS443:3:21:1279:1201#0/1  
AGATGATTTGGGATCCGAACGGATGGACTGGGACAGACAA  
+HWI-EAS443:3:21:1279:1201#0/1  
a¥`^a\_aabbbbaa^`\_aa]`aa`\_a]^`\_\_[a^Za¥^U`\_  
@HWI-EAS443:3:21:1395:1448#0/1  
GACGATACTGGACCACAACCTGCCTGTCTTATCATTAGGGC  
+HWI-EAS443:3:21:1395:1448#0/1  
aaaaa`a`a\_`]`U`\_\_a[\_^[\_`[^a`\_`\_\_^`\_`X^ZU  
@HWI-EAS443:3:21:1396:88#0/1  
GCCCCTAATTATCACTATGAGGAATGCTCCTGTTATCCTG  
+HWI-EAS443:3:21:1396:88#0/1  
a`\_^WaaaaaaaZ\_Z`a`\_`a`\_`\_¥\_XW`^^^\_XS^^  
@HWI-EAS443:3:21:1490:324#0/1  
GGAGAGGGAACCTCACCAATAGGACAGCTCATTAGGGTTC  
+HWI-EAS443:3:21:1490:324#0/1  
aa`\_a\_aba`\_^a`\_`¥Za`\_]Q^W`\_`U]UX`^Wa¥^ZUV  
@HWI-EAS443:3:21:149:1213#0/1  
GTTTGGATAGGGAGAATAAAAGCATTAGTTCAAGAAACG  
+HWI-EAS443:3:21:149:1213#0/1  
a\_a`\_`V\_a\_VZ¥`\_`\_`[`U¥^a`\_a]^`\_]`\_`\_^\_^]Y^\_  
@HWI-EAS443:3:21:1524:1814#0/1  
ACTCAATTCAACTTGGGAATCAAAATCAGATTGAAACATG  
+HWI-EAS443:3:21:1524:1814#0/1  
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@HWI-EAS443:3:21:1640:1847#0/1  
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+HWI-EAS443:3:21:1640:1847#0/1  
`S]\_\_aaV[VF¥^^R`0a`Y\_^VR]]YV]UKT\_¥XWU^ZO  
@HWI-EAS443:3:21:1666:245#0/1  
CCCCGTAATTTACGGAAACCACTGACTGTCCAGCAGCAA  
+HWI-EAS443:3:21:1666:245#0/1  
ab]a\_abaabb]aZabaaaQX^\_\_`S[\_UXRRRF^¥NJRU  
@HWI-EAS443:3:21:171:1192#0/1  
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+HWI-EAS443:3:21:171:1192#0/1  
`KVa`ab`b]a^\_babaa`Sb```a\_^`][[aaSYa¥aTT  
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ACCGTTTCTTGAACCTAATGCTTTTAGTTCTCCCTATCCAA  
+HWI-EAS443:3:21:1740:2004#0/1  
a\_R][\_V¥```U[R]VGT`NQ¥a^¥VNXWUG^[T]ZT¥][  
@HWI-EAS443:3:21:1764:288#0/1  
ACATATGTTAACATCAGCAACACCAACTTTGCTGCTGGAC  
+HWI-EAS443:3:21:1764:288#0/1  
aa\_Q\_aaZ``b[aaXX``a`W¥\_[^ZG]\_\_`Z]^X^UZVF  
@HWI-EAS443:3:21:220:934#0/1  
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+HWI-EAS443:3:21:220:934#0/1  
abaab`aabba^aa`]aQ\_\_aa\_]M)`Z`^Y\_\_aYXW\_`\_  
@HWI-EAS443:3:21:22:547#0/1  
CCAGAACTAACAGGGCTGGATTGTATAAGACCTTGCTTCT  
+HWI-EAS443:3:21:22:547#0/1  
a]ab¥^aaaZ``aaa`^]a^aa\_U^]``\_`YTX`]a^```]  
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+HWI-EAS443:3:21:23:674#0/1  
aaa`aababaa\_``aaa\_a^`a`a`\_a`^a`\_^YTXZPBB  
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+HWI-EAS443:3:21:304:159#0/1  
aa`^baaaa`aaa¥`\_a`\_``\_][YYZ`Z[[\_\_VVV]  
@HWI-EAS443:3:21:304:354#0/1  
GTGAAATTAGCGGGCAATTCCTCTCTCTGCCCTGTTAGTG  
+HWI-EAS443:3:21:304:354#0/1  
a\_a`]aa`\_`^a`]`a\_`^^\_\_[\_[]\_\_\_\_]`\_`]`X\_  
@HWI-EAS443:3:21:314:1004#0/1  
GAGGAATTGCCCGCTAATTTACGGAAACCACTGACTGTC  
+HWI-EAS443:3:21:314:1004#0/1  
[baa`b]`abab`^baaaaaabaVaaabaaaa\_\_Z]¥S]  
@HWI-EAS443:3:21:389:1522#0/1  
CAAATACGGCAATGGTGTGGATAGGGAGAACTAAAAGC  
+HWI-EAS443:3:21:389:1522#0/1  
aa`aa\_baaa`^\_PYMX\_aa\_\_[\_`[^WXY`\_]a^`aW[  
@HWI-EAS443:3:21:39:693#0/1  
GTGTAAACAGTGACACTGTGGGTTGGTCTTGCCAGACGG

+HWI-EAS443:3:21:39:693#0/1  
a^`\_`\_`[\_`\_Ua\_`^`^a^S`\_¥W^]VS^^Z^^^XUQX^  
@HWI-EAS443:3:21:456:1350#0/1  
CGGGAGCAGCATATCCTTTTGTGGTGTAAACAGTGACACT  
+HWI-EAS443:3:21:456:1350#0/1  
a^`aXab^aaaa`\_`a`\_`\_`YTVY`\_`][¥`^V\_\_`\_`T^  
@HWI-EAS443:3:21:479:1917#0/1  
ACTTGGTCCATCGGTCATTACAGTAAAGCAAGAACCATTT  
+HWI-EAS443:3:21:479:1917#0/1  
aa`\_\_\_^aaa\_a\_ZZ^^Z^\_¥\_^V\_[\_`^S]^X`\_]W]]VZ  
@HWI-EAS443:3:21:506:739#0/1  
ACATATGCAGTGGGATTTTCGGAGACAATCCACGCCCTAA  
+HWI-EAS443:3:21:506:739#0/1  
aaaab¥a]Y`\_`aaa^a`\_`aaa]aa]Y¥\_Y\_\_Z\_a\_]\_\_\_\_  
@HWI-EAS443:3:21:537:148#0/1  
GCAGCATATCCTTTTGTGGTGTAAACAGTGACACTGTGGG  
+HWI-EAS443:3:21:537:148#0/1  
ab]^¥X\_aa`\_]aX]]a[]]^aZ¥]V[`dW\_[[\_WY`T\_^W  
@HWI-EAS443:3:21:546:1815#0/1  
GTCAGGATATAGCGGGAGTTTTGTTCAGCATCCAGAACTA  
+HWI-EAS443:3:21:546:1815#0/1  
a[a`]a]\_`\_`\_`\_`^aUaN\_^XPU`\_`¥[LLT^¥SNW[UUW  
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CACAACTGCCTGTCTTATCATTAGGGCGTGGATTGTCTCC  
+HWI-EAS443:3:21:571:825#0/1  
aa`aa\_\_[aaa\_]a\_\_\_\_\_`\_\_\_\_\_¥XYRS\_^`\_]UU[WV  
@HWI-EAS443:3:21:583:1090#0/1  
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+HWI-EAS443:3:21:583:1090#0/1  
a]bbbaa\_a\_[\_a`\_`aR^[\_baaaaa]a]P`\_`a\_RXVaWY  
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ATCAAGAGTTGGAGAAACAATATATTGAGAACAACAAGAGT  
+HWI-EAS443:3:21:612:1716#0/1  
U^Y]Q¥`^UOV\_]¥T]^`\_[ULXZXXP[``\_`^Z`\_`ZY^[Y  
@HWI-EAS443:3:21:651:884#0/1  
ATATCATGCTCCCCCTTGAATGCAGAACCTTCTTCTTGA  
+HWI-EAS443:3:21:651:884#0/1  
aa^S[aa[aaa`\_`\_`\_`^\_¥]\_¥]\_\_\_¥\_¥WQ¥]¥YWW¥¥\_  
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AGAAATTCCAATTGTTAGCCAATTGATGCCATCATGACAA  
+HWI-EAS443:3:21:668:941#0/1  
aaaaaaaaaaaa`^¥`\_`¥[aa\_\_`\_`^¥[^T^^]^ZVZX\_]`  
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GATTGAAACATGCAATCAAAGCGTCATTACTTATGAAAAC  
+HWI-EAS443:3:21:756:303#0/1  
`\_]`\_`a`\_¥\_`Z`\_`¥UV^UJX^Z`W]]^^]]][RW]\_Y\_]U  
@HWI-EAS443:3:21:757:1887#0/1  
GTCCATCGGTCATTACAGTAAAGCAAGAACCATTACACA  
+HWI-EAS443:3:21:757:1887#0/1  
aTba¥X\_^QTT\_¥^aU^^F¥`\_`¥NR^XL]]PMSS¥]PXS]

@HWI-EAS443:3:21:764:656#0/1  
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abab`abbaaaaaaaaa`aaaaa]`\_^\_aa\_]\_¥]^Z  
@HWI-EAS443:3:21:78:486#0/1  
CGCTAATTTACGGAAACCACTGACTGTCCAGCAGCAAAG  
+HWI-EAS443:3:21:78:486#0/1  
abb`WPTaaa^[U`¥a^a[XV¥^Z^`\_Y¥QJJ]Z\_SRBBB  
@HWI-EAS443:3:21:845:312#0/1  
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+HWI-EAS443:3:21:845:312#0/1  
abba``baaa\_aaaaa\_aa`aa¥W]\_^`\_^a^ZZ\_¥]W¥¥  
@HWI-EAS443:3:21:863:91#0/1  
GACATATGTTAACATCAGCAACACCAACTTTGCTGCTGGA  
+HWI-EAS443:3:21:863:91#0/1  
aa``aaaa`a`a\_\_`\_`\_[\_\_\_\_^]\_^]`^\_\_]Z\_XZ\_^Z  
@HWI-EAS443:3:21:865:1817#0/1  
ATTCATATCATGCTCCCCCTTGAATGCAGAACCTTCTTC  
+HWI-EAS443:3:21:865:1817#0/1  
^ZU\_¥Q¥`a`\_a[`\_¥Z^[Z]U^U\_\_^U]\_YUQU]XYX  
@HWI-EAS443:3:21:926:62#0/1  
ATGGGCTCCTGTCTTTAATGGTTCCATTGGAATGTTTGTC  
+HWI-EAS443:3:21:926:62#0/1  
aa\_aaa\_Vaa]\_W`aa\_\_aa`Z]0\_^``^Y^\_\_]^a^ZW  
@HWI-EAS443:3:21:94:731#0/1  
GTTATTATGCCGTTGTACTTTAACACAGCCACTGCCCCAT  
+HWI-EAS443:3:21:94:731#0/1  
aa\_¥``X^\_\_W`S]^`^`¥¥\_Y^^\_¥W¥Y¥]¥Y  
@HWI-EAS443:3:21:999:1701#0/1  
GAAACAATATATTGAGAACACAAGAGTCTGAATGTGCATG  
+HWI-EAS443:3:21:999:1701#0/1  
aaa``aaa`aaaaa`^`\_a]a`\_\_aY^\_a\_^`\_Y\_Y\_\_\_\_  
@HWI-EAS443:3:22:1043:540#0/1  
ATTCATATCATGCTCCCCCTTGAATGCAGAACCTTCTTC  
+HWI-EAS443:3:22:1043:540#0/1  
[b¥Q\_ab^^]\_Y`b]UW\_S\_aU]`TXaUV¥U¥FG¥a¥]Y]  
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AAGACACCCACGGTCGATTCGAGCCATGCCAGTTATCCCT  
+HWI-EAS443:3:22:1077:1193#0/1  
``\_XSba`a]bbYFU`ZV¥[¥[]a`SaZNXGQUW\_VNaY[  
@HWI-EAS443:3:22:1130:1063#0/1  
GGGAGAATAAAAGCATTAGTTCAAGAAACGGTTTTGAGA  
+HWI-EAS443:3:22:1130:1063#0/1  
a`¥Q\_aaa^\_^`VW]Za\_[\_Z^[UOXUQLT\_TT]VZ`KTQ  
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GCGACCCAAAGAGAACAATCTGGACTAGCGGGAGCAGC  
+HWI-EAS443:3:22:1233:558#0/1  
Z``P¥¥¥]\_\_aa\_ZXa^H^a`Y`]^`\_UWH\_a`T¥[YFM¥G  
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CTTTAACACAGCCACTGCCCCATTGTCTGGGCCAGAAATT

+HWI-EAS443:3:22:1259:1356#0/1  
abab`\_`bab`aaaaaaaaaS`^`^`\_\_\_\_[[W\_\_^Z^\_\_  
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AGCCATGCCAGTTATCCCTGCACACACATGTGATTTCACT  
+HWI-EAS443:3:22:1269:1109#0/1  
aaaabba`a^`b`aaa`aab`a`\_\_a`aa\_a]^a^M]^`  
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CCGCTAATTTACGGAAACCACTGACTGTCCAGCAGCAAA  
+HWI-EAS443:3:22:1272:690#0/1  
a`\_\_a```aa`\_`^`^aaZ`\_[¥][^]PY]UZTPYVVT  
@HWI-EAS443:3:22:1301:65#0/1  
CTTGCTAAATGACAAACATTCCAATGGAACCATTAAGAC  
+HWI-EAS443:3:22:1301:65#0/1  
\_\_ab`abaabbaaab`aba`a`ab```^¥`a^a\_aa\_\_  
@HWI-EAS443:3:22:1303:1552#0/1  
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+HWI-EAS443:3:22:1303:1552#0/1  
\_^\_RTWaa]T\_V¥Z\_\_\_b`^`\_a`[\_a]R[^XGWX\_^VZI  
@HWI-EAS443:3:22:1312:799#0/1  
CTTGGGAATCAAAATCAGATTGAAACATGCAATCAAAGCG  
+HWI-EAS443:3:22:1312:799#0/1  
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@HWI-EAS443:3:22:1349:1899#0/1  
GTATAAGACCTTGCTTCTGGGTTGAACTAATCAGAGGGCG  
+HWI-EAS443:3:22:1349:1899#0/1  
aaaaa]¥]Y\_a\_a¥aaY\_a`W]\_aba\_a`^\_Za\_\_a^Y[W  
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ATCATGCTCCCCCTTGAATGCAGAACCTTCTTCTTACT  
+HWI-EAS443:3:22:1360:1970#0/1  
aa^\_X\_W``¥Xa`Z^YX\_]¥]VZ[^`ZVQ¥^¥TT\_U\_\_¥¥  
@HWI-EAS443:3:22:1362:1582#0/1  
GTCGATTCGAGCCATGCCAGTTATCCCTGCACACACATGT  
+HWI-EAS443:3:22:1362:1582#0/1  
Ua`b]ba\_¥\_]a``\_M\_bY]Qaab\_\_^]aWW¥UaaSa\_b\_  
@HWI-EAS443:3:22:1411:1288#0/1  
CTTGAGTCAAGAAGAAGTTCTGCATTCCAAGGGGAGCA  
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aba`ab`aaaa^a`aaa]Ya``\_\_a`^V\_\_a]\_`[W]U^  
@HWI-EAS443:3:22:1471:177#0/1  
CTCCTGTTATCCTGATTCTAGTAAATCACATGTGTGTGC  
+HWI-EAS443:3:22:1471:177#0/1  
abb`aa\_babbaa`abaaaa]¥a\_a``\_`^`a`^`]a`\_]  
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CAAGAGTTGGAGAAACAATATATTGAGAACACAAGAGTCT  
+HWI-EAS443:3:22:1500:1115#0/1  
ab[\_S^]babaa^a\_Zaaaaaaba`\_\_Ya¥^W`\_aXS]  
@HWI-EAS443:3:22:1508:814#0/1  
CAGTAAAGCAAGAACCATTTACACATGCACATTCAGACTC  
+HWI-EAS443:3:22:1508:814#0/1  
abbababbbb¥\_abbbbaaaabbaaaaa`aaa\_a[

@HWI-EAS443:3:22:1522:617#0/1  
CTGGGACAGACAATAACTTCTCAATAAAGCAAGATATCGT  
+HWI-EAS443:3:22:1522:617#0/1  
¥]``b`^baX^¥\_]`][a^\_]Tab\_aa¥X\_^a`^U\_aaX  
@HWI-EAS443:3:22:1581:1478#0/1  
GACATATGTTAACATCAGCAACACCAACTTTGCTGCTGGA  
+HWI-EAS443:3:22:1581:1478#0/1  
a\_]bbba]bbbaa`a[\_aaaa\_W]\_Y[ab\_]Y\_]Zaa\_  
@HWI-EAS443:3:22:161:394#0/1  
CGGGAGTTTTGTTTCAGCATCCAGAACTAACAGGGCTGGAT  
+HWI-EAS443:3:22:161:394#0/1  
`a\_Q0b]aaaa^¥aZZ\_a[]a```\_`¥``\_\_^\_U\_^a[V^  
@HWI-EAS443:3:22:165:1549#0/1  
CAACTGCCTGTCTTATCATTAGGGCGTGGATTGTCTCCGA  
+HWI-EAS443:3:22:165:1549#0/1  
aa\_a`a¥a`^\_aa\_aaa``aT^YU`[X[QV`]0¥\_^aUT]  
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TGGTGTGGATAGGGAGAACTAAAAGCATTAGTTCAAGA  
+HWI-EAS443:3:22:1682:1079#0/1  
aaaU¥`\_X[]V¥Za`^XaUVS`[PZZPLR^`W[UYJVZZY  
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+HWI-EAS443:3:22:1686:1177#0/1  
a`baa\_\_bbba^a``\_^Z]]F¥SMUaaYa[\_a^a]FWaZ\_  
@HWI-EAS443:3:22:1758:1269#0/1  
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+HWI-EAS443:3:22:1758:1269#0/1  
aba[]a`abbba`YaZ^^a\_a¥Wa]a`[aa\_] [\_a[\_[XW  
@HWI-EAS443:3:22:179:1696#0/1  
ATCTTTCCCTTTTCTATTCTGAAGATCTTGTATGAGGCCT  
+HWI-EAS443:3:22:179:1696#0/1  
I¥ab`bbababa\_aab\_Z¥b[abaVaa`¥b`aaVaHK\_a]  
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+HWI-EAS443:3:22:193:1158#0/1  
ab`abaaaaaaaa`aa\_a`\_aa`\_a^a\_\_a`\_`\_a\_\_^\_\_  
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+HWI-EAS443:3:22:233:1555#0/1  
]Q\_aaaa^abaaa`a\_b`aaaaVa`a^\_Y[``\_Q\_\_\_^  
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GGGCTCCTGTCTTTAATGGTTCATTGGAATGTTTGTCTG  
+HWI-EAS443:3:22:277:1053#0/1  
\_¥Wb^aaa`]aaaaZ¥```W]aa[a]K\_\_``aV`a]UTV¥  
@HWI-EAS443:3:22:355:631#0/1  
CACCAATAGGACAGCTCATTAGGGTTCGATATGGGCTCCT  
+HWI-EAS443:3:22:355:631#0/1  
a\_\_Y\_[`[baaaaaZ^\_HT]] [YZT]aa][Z\_\_¥\_[U[UP  
@HWI-EAS443:3:22:402:840#0/1  
AAGCGACTGACTCAAATCTTGAGTTGTATGGAGAGGGAAC

+HWI-EAS443:3:22:402:840#0/1  
 aaaaa`aaa\_\_`¥`aaa\_\_\_Y\_Yaa]^\_\_\_\_]`\_\_\_W\_\_^  
 @HWI-EAS443:3:22:403:1012#0/1  
 ATTCATATCATGCTCCCCCTTGGAATGCAGAACCTTCTTC  
 +HWI-EAS443:3:22:403:1012#0/1  
 aaa^)`aaaa]Z¥^¥a\_aW[[\_`VX`\_`\_`\_]ULV]\_^¥\_  
 @HWI-EAS443:3:22:405:829#0/1  
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 +HWI-EAS443:3:22:405:829#0/1  
 [ZZXWW[[TGSR\_XZPQYH¥aHNZ^`U`¥G]a\_WOPUBBB  
 @HWI-EAS443:3:22:450:1599#0/1  
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 +HWI-EAS443:3:22:450:1599#0/1  
 aa\_\_`[^\_a`^\_^^^`\_¥]^\_^^]Y^\_Z]]\_\_`^]  
 @HWI-EAS443:3:22:468:1179#0/1  
 TGCCTGTCTTATCATTAGGGCGTGGATTGTCTCCGAAAAT  
 +HWI-EAS443:3:22:468:1179#0/1  
 `aaS^aXI¥¥a]`a\_]ZZZa`\_UaSW¥]SP¥VY\_VPV\_Y¥  
 @HWI-EAS443:3:22:513:709#0/1  
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 +HWI-EAS443:3:22:513:709#0/1  
 ^^`¥aa`^`aa\_aY^aaa`¥`a¥¥RZaa`^a\_¥a`Z]]]^  
 @HWI-EAS443:3:22:530:634#0/1  
 GCCTTGCTAAATGACAAACATTCCAATGGAACCATTAAAG  
 +HWI-EAS443:3:22:530:634#0/1  
 aaaaaaaaaaaaa`aaa]0\_\_a\_\_aaa`Z¥[aaY`\_^a\_\_`  
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 a`\_[\_ba]R^`a^a`a]aT[R^]]a\_a\_[\_ZTQZW¥^YM[  
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 +HWI-EAS443:3:22:624:131#0/1  
 ababaa`aaaa^^\_aa^b\_a`a\_`^`\_`\_`\_`^a\_aa`^  
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 +HWI-EAS443:3:22:627:348#0/1  
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 +HWI-EAS443:3:22:639:305#0/1  
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 +HWI-EAS443:3:22:693:868#0/1  
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 +HWI-EAS443:3:22:699:860#0/1  
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+HWI-EAS443:3:22:720:1415#0/1  
abaab`VU\_aaa^\_\_a`a`aa`aaVX¥\_`[\`XZ`\_YX\_``  
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+HWI-EAS443:3:22:734:1310#0/1  
aa\_PSY[\_aa\_aXLaaa``¥0`^`^\_\_WNL\_`X]LZ\_\_]]  
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WT`QZY]¥YHOYXY¥^0¥]aaZOY\_\_TUXXFMUFUS`U]  
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+HWI-EAS443:3:22:777:1827#0/1  
abb`bbbba^ba\_abaaaa`[bba`b`aa^YY^\_\_\_\_]Z^^  
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+HWI-EAS443:3:22:786:943#0/1  
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+HWI-EAS443:3:22:869:702#0/1  
a\_^UWW`\_`U¥U\_]X^YL[a\_]XTKUX]\_\_a^SX[aFRQ[  
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a\_\_¥`\_]`^`a\_\_¥^`[\_V]ZTZ¥\_P\_X[]X]^`^`O[WR  
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+HWI-EAS443:3:23:1064:599#0/1  
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+HWI-EAS443:3:23:1226:1851#0/1  
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+HWI-EAS443:3:23:135:387#0/1  
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+HWI-EAS443:3:23:1429:1021#0/1  
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K[\_V\_baZ`ab`\_`WW\_Zabb^`b`\_W¥b`^a`Ya]G]aa  
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+HWI-EAS443:3:23:1482:169#0/1  
aa¥\_[]UR\_b\_a¥aSPX`WKW`^[]`[F`\_`\_\_^JQ\_\_\_\_^  
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¥G\_X]``^\_ab`a^`^Xa[`¥`^ [UIZ\_NU^^XUUZXN\_`  
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+HWI-EAS443:3:23:1521:848#0/1  
^^^[ST^[]¥a\_YY^aa¥HT^[¥TQaa^VV`aQTWZ^¥Z[a



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+HWI-EAS443:3:23:21:1145#0/1  
U]\_\_a¥Wta]¥ba\_]a]¥¥USWSY]^XV]X`aYXY¥\_¥Z  
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+HWI-EAS443:3:23:251:1342#0/1  
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+HWI-EAS443:3:23:296:1252#0/1  
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+HWI-EAS443:3:23:316:935#0/1  
`^]]\_\_^a\_]¥]]^` `` `[[^^W[ ` \_U\_\_[^X^¥]YZU^  
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+HWI-EAS443:3:23:454:983#0/1  
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+HWI-EAS443:3:23:523:1648#0/1  
aN¥Tabbab`bb\_a¥b` `a[T`aaaa`aa[\_Z\_`]]^\_¥N  
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+HWI-EAS443:3:23:608:1235#0/1  
a\_]^^\_]^\_W[LY]ZZTZ^V[^X][[S]]¥^[U][^[]Z[  
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aa¥QWY\_ZU]aaa][¥TZ]SWa[V¥`]X`]aa`]\_\_a[]¥  
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+HWI-EAS443:3:23:650:781#0/1  
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+HWI-EAS443:3:23:669:508#0/1  
`WZ^^b`Za`]\_\_Y[Z^WU^V\_WRQ^`a`[ ` `]GYT]¥a^  
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+HWI-EAS443:3:23:725:1932#0/1  
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+HWI-EAS443:3:23:869:1327#0/1  
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CAGGGCTGGATTGTATAAGACCTTGCTTCTGGGTTGAACT  
+HWI-EAS443:3:23:929:1271#0/1  
^]X]]b¥aaaa\_[]\_\_a^Ya¥Wa[]]aa`ba`]T`\_`bW`  
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+HWI-EAS443:3:23:963:1362#0/1  
abaaa`baaaaaaaaa`^V]`\_[]\_\_`a\_[]`\_^]`^\_[]`^R  
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+HWI-EAS443:3:23:963:1710#0/1  
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+HWI-EAS443:3:23:998:532#0/1  
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aa]\_ZW]a\_]a`\_\_\_``]]`^^ZW^Za\_[^W]¥``Q]\_`\_\_  
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+HWI-EAS443:3:24:1298:731#0/1  
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+HWI-EAS443:3:24:144:349#0/1  
aaba^a\_`aa`aaaa\_a`aa`a\_a\_`\_`\_[^]\_a\_\_^]\_]\_  
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+HWI-EAS443:3:24:212:1757#0/1  
XT^a`¥bbbZaab`0\_\_`Xa`a\_Zaa`Ua¥`aaa]W`Z^  
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+HWI-EAS443:3:24:239:1180#0/1  
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+HWI-EAS443:3:24:245:232#0/1  
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+HWI-EAS443:3:24:310:82#0/1  
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TGTGTAAATGGTTCTTGCTTTACTGTAATGACCGATGGAC  
+HWI-EAS443:3:24:477:1365#0/1  
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+HWI-EAS443:3:24:491:181#0/1  
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+HWI-EAS443:3:24:493:653#0/1  
abbbbbbbbbbba[aa`abaaabbb]baaa`aaaa^aa\_a  
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CATTTAGCAAGGCCCTTGAGTCAAGAAGAAGTTCTGCA  
+HWI-EAS443:3:24:516:338#0/1  
`\_\_¥\_\_aaU\_^a]a`YM[SaR\_UR¥^`]\_\_\_\_\_T\_aZa\_`  
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GTCTGGGCCAGAAATCCAATTGTTAGCCAATTGATGCCA  
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a\_¥\_aaaaaaaa`¥\_\_\_a\_^`a^^a\_R]\_[\_^\_]\_WX\_  
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TAACAGACACTATCAAGAGTTGGAGAAACAATATATTGAG  
+HWI-EAS443:3:24:604:1840#0/1  
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+HWI-EAS443:3:24:628:648#0/1  
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+HWI-EAS443:3:24:637:639#0/1  
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+HWI-EAS443:3:24:648:1517#0/1  
^\_Y^¥`b`\_[^¥ba¥`¥aVWX¥TLO¥W\_WYQ]M[FW¥FY  
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+HWI-EAS443:3:24:680:366#0/1  
a`¥\_bbba\_aYaa`aaaa\_[aa``\_\_U`^^a\_\_]G[^XY¥  
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+HWI-EAS443:3:24:711:516#0/1  
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@HWI-EAS443:3:24:756:76#0/1  
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+HWI-EAS443:3:24:756:76#0/1  
^b`b`^`b^¥ZU]]]a]ZY]ZQN[a]\_\_`^UNPSZYTR]  
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+HWI-EAS443:3:24:76:58#0/1  
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TGCATGTGTAATGGTTCTTGCTTTACTGTAATGACCGAT  
+HWI-EAS443:3:24:771:419#0/1  
abaaabRbabaaaaa`Q`aa\_aaaa^aa]aaaa```^a  
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+HWI-EAS443:3:24:794:652#0/1  
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+HWI-EAS443:3:24:813:1997#0/1  
`¥\_R\_bba¥`ab^WZ¥^RbWWT^bba`a]ba\_\_U0]Z^\_V  
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S\_I¥`Zb^^`\_aa\_aaVa[[\_R^\_bZVbaa`^¥¥a[¥`^  
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+HWI-EAS443:3:24:88:328#0/1  
abbaa`aaaaab\_abaa\_aa\_\_Q\_aaa`\_aa`a\_aa`aa  
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GAACAAAACCTCCCGCTATATCCTGACCACTCATTTATTCC  
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`baZRQT¥\_ZaZW¥^Z]Xaa`Y^^]\_]`a`a]¥`\_\_YX]T  
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+HWI-EAS443:3:24:962:544#0/1  
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+HWI-EAS443:3:24:972:978#0/1  
aaaabbaaaa`aaaa`a^\_aa\_a`a\_a\_aa`^`\_`a\_`\_\_  
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Z`\_bbbbbbbab`bbbaabba`a^ZI]`Y¥]a\_]V^GRV  
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+HWI-EAS443:3:25:1096:1857#0/1  
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+HWI-EAS443:3:25:1104:1017#0/1  
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+HWI-EAS443:3:25:1112:656#0/1  
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+HWI-EAS443:3:25:1148:1189#0/1  
aabaaaaaaaaa\_a`aaa\_``aaa]`\_a^`\_`\_`]\_\_[-]  
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+HWI-EAS443:3:25:1168:621#0/1  
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@HWI-EAS443:3:25:1196:1656#0/1  
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+HWI-EAS443:3:25:1196:1656#0/1  
a[b`bba```bbaabbaaba`ba^^a\_a[Uaaa\_\_\_L]]  
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+HWI-EAS443:3:25:1211:1665#0/1  
`^[a\_W\_`ab¥b`aaa\_`[MZ^]\_aaaaa¥aa\_aaa`  
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+HWI-EAS443:3:25:1337:1074#0/1  
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+HWI-EAS443:3:25:1346:1194#0/1  
ab¥`^^babb`¥`Z\_bb¥X`a```]S]^a]T¥KX]PX\_  
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+HWI-EAS443:3:25:1361:292#0/1  
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\_baaaa^Fabaaa\_aaa`aa\_a`b^\_aaaa¥^[^Y\_]\_X  
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+HWI-EAS443:3:25:1455:23#0/1  
aaababa\_a\_X`b]a¥\_\_a\_aa^\_aa`a\_aaZP\_Z\_Yaa¥  
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+HWI-EAS443:3:25:1527:1449#0/1  
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\_XY[]W]¥^T^Y\_^^^`¥T¥a[¥[``]a]`X¥`KHx]^Z  
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\_Z\_[[bb]\_a`\_`b]Y^`^ZSb\_aXX]]NY``^VZZRVT[  
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+HWI-EAS443:3:25:1540:643#0/1  
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+HWI-EAS443:3:25:1645:1964#0/1  
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+HWI-EAS443:3:25:1753:398#0/1  
Q\_bb`ab¥]]\_H\_\_¥SS¥]YLZY\_PZ[a````\_a[`Kb[[^  
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+HWI-EAS443:3:25:218:906#0/1  
aa^[a¥S¥]XYZ`Zb\_QQ\_\_V\_]VXVV`aTXZ[aYKZT]\_  
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+HWI-EAS443:3:25:240:1626#0/1  
]]^abba`a\_ab[``\_¥W^\_\_\_\_]babaa`a\_aa`\_a\_a¥V  
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+HWI-EAS443:3:25:635:453#0/1  
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a]V]¥¥a]]\_\_aT^^¥\_SLTX^^^Y\_\_¥[]]Y^YY^Z[\_Y  
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+HWI-EAS443:3:25:743:708#0/1  
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+HWI-EAS443:3:25:756:2005#0/1  
a\_b^X^aaabb`\_a\_\_`a\_¥¥` `SZ\_ZW]Z`\_a`\_^a^[\_  
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+HWI-EAS443:3:25:763:1074#0/1  
a`a\_\_a` `bbbaa\_b` `aa\_aaaa`aa`a\_Ya`a`U^^  
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+HWI-EAS443:3:25:768:981#0/1  
a[`Y` \_\_]U[\_\_\_][XTQVV[[¥^]VM[]Y^[NYYVXT[]¥  
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+HWI-EAS443:3:25:817:1281#0/1  
WU¥a]^`aaa\_X¥a`\_a\_\_OZYVa`^ZX¥`Y¥[^Y¥W¥WQ  
@HWI-EAS443:3:25:842:1045#0/1  
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+HWI-EAS443:3:25:842:1045#0/1  
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ACTTCACCAATAGGACAGCTCATTAGGGTTCGATATGGGC  
+HWI-EAS443:3:25:896:211#0/1  
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+HWI-EAS443:3:25:953:301#0/1  
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+HWI-EAS443:3:25:997:476#0/1  
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@HWI-EAS443:3:26:1027:1102#0/1  
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+HWI-EAS443:3:26:1027:1102#0/1  
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@HWI-EAS443:3:26:103:1445#0/1  
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+HWI-EAS443:3:26:103:1445#0/1  
a\_aa^`Za\_S\_W\_b`[]J[\_`¥TZ^^`\_¥U]^WY¥^\_[\_\_  
@HWI-EAS443:3:26:1094:1368#0/1  
GGGCTCCTGTCTTTAATGGTTCCATTGGAATGTTTGTTCAT  
+HWI-EAS443:3:26:1094:1368#0/1  
aa`aaaaaaaabaa]a`a]¥`OL[[[T[a\_UZ`\_\_JNT]`  
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+HWI-EAS443:3:26:1130:814#0/1  
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@HWI-EAS443:3:26:1150:1696#0/1  
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+HWI-EAS443:3:26:1150:1696#0/1  
aaabbbbababaaa`\_[`a]`Ga``aa]¥^`\_[V[N]`\_\_  
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aaaa`b`aa\_a`aa[\_aaaa\_aa\_\_\_\_^`a`]aaa\_Y`^  
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+HWI-EAS443:3:26:119:1314#0/1  
a¥`^[\_`\_`\_[IKLX[Z[XV^[GV^ZU¥¥VG[¥Z]^JXUU  
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AAATTCCAATTGTTAGCCAATTGATGCCATCATGACAAGC  
+HWI-EAS443:3:26:1212:1885#0/1  
aaa`¥`a`\_\_][`\_`\_a`a^Q[`]\_R[]VY`]]\_Va]ZV  
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GTGCAGGGATAACTGGCATGGCTCGAATCGACCGTGGGTG  
+HWI-EAS443:3:26:1224:481#0/1  
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+HWI-EAS443:3:26:1227:1674#0/1  
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GACCACTCATTTATTCCTACGATATCTTGCTTTATTGAGA  
+HWI-EAS443:3:26:1239:521#0/1  
Ya\_^babb^babb^babb^b^T`b`a`aa¥aa`b¥bb^^¥[X  
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+HWI-EAS443:3:26:1330:1162#0/1  
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+HWI-EAS443:3:26:1332:1263#0/1  
¥R\_]\_b`\_Zabaa`ba```\_a]^`aX]XI[¥]\_P^^\_ZX  
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+HWI-EAS443:3:26:1382:1476#0/1  
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GCGGGCAATTCCTCTCTCTGCCCTGTTAGTGGATGGGCTA  
+HWI-EAS443:3:26:1387:1510#0/1  
a^aa\_`a\_aa]`\_^¥aa\_]Z\_\_Z`Ya^\_\_^]^]^NRX  
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+HWI-EAS443:3:26:1398:1084#0/1  
`ba¥aa^b¥`baaa`aa\_abbababaabaaaa\_aba^a\_`  
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+HWI-EAS443:3:26:141:912#0/1  
\_^a^ab`bb`ZaaaaaaaaX`a`Z`a\_]`a\_\_W\_[N^  
@HWI-EAS443:3:26:1448:476#0/1  
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+HWI-EAS443:3:26:1448:476#0/1  
]\_¥\_\_bbXPZKKaV[abb`QbP^¥a`aaa```a`aba]G\_  
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+HWI-EAS443:3:26:1604:826#0/1  
[bb[^`Vaba\_aW`]aa``\_a`aaa^\_a\_] ^PT¥SU\_]`  
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+HWI-EAS443:3:26:1668:33#0/1  
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+HWI-EAS443:3:26:1686:84#0/1  
a\_b¥\_\_aa]baaa¥bTVVNX`\_`^`¥`\_^]\_\_VGXRG\_YO  
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aaRWL]¥S[\_aa`\_Xba\_a^`\_`a`\_`\_`aW`aIHOR[PQJ  
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GGCTCCTGTCTTTAATGGTTCCATTGGAATGTTTGTTCATT  
+HWI-EAS443:3:26:1733:1298#0/1  
a`¥^`\_]\_\_][aaZaZX¥^`[XUVY]VWH]QW`]JPR^]¥  
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+HWI-EAS443:3:26:174:197#0/1  
ZZ\_]N\_T]aVV¥[\_ab\_¥]W`a`\_`aZZZ`\_`\_]OWaaa^a`  
@HWI-EAS443:3:26:188:1723#0/1  
CAAGAGTCTGAATGTGCATGTGTAATGGTTCTTGCTTTA  
+HWI-EAS443:3:26:188:1723#0/1  
a\_]aaY^b\_aa`][TX````]a^`\_]WZ]aa^^^\_`Z`  
@HWI-EAS443:3:26:198:1368#0/1  
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+HWI-EAS443:3:26:198:1368#0/1  
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+HWI-EAS443:3:26:212:66#0/1  
aaaaa`b`baaaaaa`aa`a\_V\_``]`^`\_```¥\_\_X]Y^  
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+HWI-EAS443:3:26:217:585#0/1  
aabbba`aSI^ab`aaa¥¥aaaaaa\_VU\_\_`\_``a\_aa`\_  
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+HWI-EAS443:3:26:243:825#0/1  
^]]baab¥N\_aa^YZZaa]ZZ]UY`^]`^NOLYX]T^U``\_  
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+HWI-EAS443:3:26:297:1156#0/1  
aVa^a`]aaSY`a`a¥`]UEW]TYV]¥¥¥`]¥[^¥Y¥S¥]  
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CAACTTTGCTGCTGGACAGTCAGTGGTTTCCGTGAAATTA  
+HWI-EAS443:3:26:374:519#0/1  
a`¥¥Z¥]aZUR]aYaT\_Q]L¥]RFZMGSFRFRYNYR`]NVB  
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+HWI-EAS443:3:26:381:307#0/1  
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+HWI-EAS443:3:26:396:13#0/1  
ab`aaaa\_a^`aaaa^aaa^a^Y\_]U\_^`]`^`\_`PWX¥]  
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+HWI-EAS443:3:26:398:1636#0/1  
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+HWI-EAS443:3:26:405:1033#0/1  
aa¥¥aba^aa`aaa`aaa``aaa``aa\_a^`a`a^\_a```  
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CAGACACTATCAAGAGTTGGAGAAACAATATATTGAGAAC  
+HWI-EAS443:3:26:411:1494#0/1  
aa¥U\_ba\_a`ZLXXY¥T¥YU]Z¥UQaXZ¥Z¥\_`^a¥\_]`^W[  
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+HWI-EAS443:3:26:426:134#0/1  
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+HWI-EAS443:3:26:561:1390#0/1  
a`^^`b^aab\_\_bW`bbaaaaaa`Sa`a`Y`T\_a\_a`a\_  
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+HWI-EAS443:3:26:596:510#0/1  
ababaa`aa`aaa\_a]aaa`^`]a\_\_`a`a``aa`\_`\_`  
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GTTTTGTTGAGCATCCAGAACTAACAGGGCTGGATTGTAT  
+HWI-EAS443:3:26:596:976#0/1  
a¥UIXaTSZU`aa¥`]]`T`[X^^`\_]Z¥YU``G[¥TUZ¥  
@HWI-EAS443:3:26:625:1049#0/1  
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+HWI-EAS443:3:26:625:1049#0/1  
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GCGGGCAATTCCTCTCTGCCCCTGTTAGTGGATGGGCTA  
+HWI-EAS443:3:26:626:359#0/1  
aaaaba^aaaaaa\_aaaa`a\_a\_aa`aaUa`\_¥`a\_U[^  
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AGCAAGGTCTTATACAATCCAGCCCTGTTAGTTCTGGATG  
+HWI-EAS443:3:26:659:1460#0/1  
aab\_b[[]]b)`^aaY`bb`^Z¥]aa`\_\_[aa]\_]\_aaY]\_]  
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+HWI-EAS443:3:26:802:160#0/1  
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@HWI-EAS443:3:26:810:813#0/1  
GAATGTGCATGTGTAAATGGTTCTTGCTTTACTGTAATGA  
+HWI-EAS443:3:26:810:813#0/1  
a``¥bV^a^]aV```a`]aa0`aa`aa`a`]Ya[\_[\_[\_]  
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+HWI-EAS443:3:26:820:705#0/1  
`a\_`[a`[]^aaa^Zaa\_aaaa``[aabbYa¥^`¥aa`\_`  
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+HWI-EAS443:3:26:842:1808#0/1  
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+HWI-EAS443:3:26:958:124#0/1  
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+HWI-EAS443:3:27:1024:205#0/1  
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+HWI-EAS443:3:27:1033:410#0/1  
aa`^aaa`^[][\_]\_XU`[\_]¥TYX^`\_XS¥\_X^\_X]]^  
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+HWI-EAS443:3:27:1048:1172#0/1  
``bbbbabaaabb^`ba`\_`b\_\_\_\_aaaaa[b\_`^a\_^Za`  
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TGCTCCTGTTATCCTGATTCTAGTGAAATCACATGTGTGT  
+HWI-EAS443:3:27:1067:391#0/1  
\_`a]]`XP\_aZ[]]a`\_[a`a^a]\_a\_\_a[]`a^a^`X



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+HWI-EAS443:3:27:1097:795#0/1  
QN\_]bbUZ¥¥VT¥GT[]a\_]aTXV`[XXU^UUPYGSV^U  
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+HWI-EAS443:3:27:1103:397#0/1  
aaaaXZ`aab\_aaa`a\_]`\_XYOVZ^`^¥[^^^\_a^Z`\_  
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GTGTCTTTCAACCAGAATCTGGAATATCAGATAGGATACA  
+HWI-EAS443:3:27:1110:1692#0/1  
a[^Y^`\_`^`\_b`]]^¥¥¥\_`\_\_\_\_\_]`\_\_Y\_X]  
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abb]bbbaabb\_``aaaabaabaa`\_Zaaaa`aaa^a  
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+HWI-EAS443:3:27:1207:913#0/1  
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CAGTCGCTTGGTCAGCAAGTGCTTGTTCATGATGGCATCAA  
+HWI-EAS443:3:27:1243:262#0/1  
^^\_XY\_]ab\_aU¥YMR`aRTXV[\_aY¥Y\_aZYOV^^MH\_]`  
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+HWI-EAS443:3:27:1276:1480#0/1  
abab^baaaaaaa\_aaba`aaa`aRU`\_a\_[\_`\_a`¥T^  
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+HWI-EAS443:3:27:1277:452#0/1  
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+HWI-EAS443:3:27:1343:461#0/1  
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@HWI-EAS443:3:27:1366:1541#0/1  
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+HWI-EAS443:3:27:1366:1541#0/1  
ab¥`]]^]Va]U¥^T]¥]WT\_R^R[[\_]aS\_\_RUW^\_]UW  
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+HWI-EAS443:3:27:1369:430#0/1  
P)`Ya`]¥\_\_\_\_\_a\_¥XSaY[V^a^U[\_`\_k]RLZ``YF]^  
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+HWI-EAS443:3:27:1450:262#0/1  
a[ `a\_bbabaa `wv]]\_W¥\_ZZ¥ZTNY^\_\_OMO^UPVZY  
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+HWI-EAS443:3:27:1637:1601#0/1  
a\_vv`aa`a`a`aYX[\_Y`a]aVa\_a]aG\_\_\_\_`\_^W[  
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+HWI-EAS443:3:27:1675:329#0/1  
aa``aaa[aaaaaa]a``\_a^\_Z[\_\_\_\_Y]^Z\_\_\_\_V\_X  
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+HWI-EAS443:3:27:262:85#0/1  
abbaa`baaba``^`Wa`aba^Y^\_aa¥U^\_aZ^Z\_a`  
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GGAATATCAGATAGGATACATATGCAGTGGGATTTTCGGA  
+HWI-EAS443:3:27:268:386#0/1  
\_`````a``]TVY\_[]^aU[]]NU[[¥GW[[SW]\_^ZZ[V  
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+HWI-EAS443:3:27:288:1480#0/1  
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+HWI-EAS443:3:27:333:96#0/1  
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+HWI-EAS443:3:27:356:401#0/1  
¥V`b`babba`\_HY`ab``bbbbbb`^bV`Y`bV^R`b  
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+HWI-EAS443:3:27:380:1461#0/1  
Y^``a¥baaaaa]ZZ\_b\_^Y[VVW^ZGZN[\_a]\_Q]^]^  
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AGCATCCAGAATAACAGGGCTGGATTGTATAAGACCTTG  
+HWI-EAS443:3:27:384:141#0/1  
a\_ab\_^\_a^ab^[\_`aWW]¥VVD[a^\_\_`W]WYY¥^YTZY¥  
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GTTTTGTTGAGCATCCAGAATAACAGGGCTGGATTGTAT  
+HWI-EAS443:3:27:479:55#0/1  
a\_^¥^`]VWY]NT¥\_ZU\_UXLPZ\_YZU\_VUYVTYVX^USY  
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TGTGGGTTGGTCTTGGCCAGACGGTGCTGAGTTGCCATTT  
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@HWI-EAS443:3:27:664:400#0/1  
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+HWI-EAS443:3:27:664:400#0/1  
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@HWI-EAS443:3:27:746:1269#0/1  
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+HWI-EAS443:3:27:746:1269#0/1  
VYY\_S]]\_OXRK\_[Q]]Z0¥XX[\_aaYY[YQ¥\_a`¥\_\_YJ  
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CTTTAACACAGCCACTGCCCATTTGTCTGGGCCAGAAATT  
+HWI-EAS443:3:27:818:161#0/1  
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GGGATGTGTTTGT CATAAGGGAACCATT CATATCATGCTC  
+HWI-EAS443:3:27:854:1260#0/1  
aa`aaa\_a\_aa\_Zaaa`a`\_^\_a^\_a`^`aa\_X`\_] [^\_  
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+HWI-EAS443:3:27:858:674#0/1  
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@HWI-EAS443:3:27:993:541#0/1  
GAGGAATGCTCCTGTTATCCTGATTCTAGTGAAATCACAT  
+HWI-EAS443:3:27:993:541#0/1  
Z^abbbba^[\_^]aa\_ba`\_]ababb]ba`]aaaab¥\_\_`a  
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GGTGTAACAGTGACACTGTGGGTTGGTCTTGGCCAGACG  
+HWI-EAS443:3:28:100:40#0/1  
a\_]Y\_R\_\_`a`aaa`aaT]]a¥^`UP\_\_`\_`^ZYP[^  
@HWI-EAS443:3:28:1074:1047#0/1  
GACATATGTTAACATCAGCAACACCAACTTTGCTGCTGGA  
+HWI-EAS443:3:28:1074:1047#0/1  
aa`\_abaaa`aaaaaa\_aaa\_a\_b]¥^a\_\_¥^]^^`^R  
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TGCAATCAAAGCGTCATTACTTATGAAAACAACACTTGGG  
+HWI-EAS443:3:28:1143:842#0/1  
abaabbbbbaaaab`\_abaa`bbaaaaaaa]a`^`aa`[\_  
@HWI-EAS443:3:28:1223:1751#0/1  
ACTTGGTCCATCGGTCATTACAGTAAAGCAAGAACCATTT  
+HWI-EAS443:3:28:1223:1751#0/1  
Z\_bbbb¥b^b]abXJ]VZab]V]\_`\_`a\_W^b[`]\_a`]\_\_  
@HWI-EAS443:3:28:1241:557#0/1  
GTCCTATTGGTGAAGTCCCTCTCCATACAACACTCAAGATT  
+HWI-EAS443:3:28:1241:557#0/1  
a\_^]T¥^V^TQ]a\_\_^NYUa`^¥\_[`]`\_YR¥[\_]V`RUW  
@HWI-EAS443:3:28:1271:341#0/1  
CTTGTCAATGGTAAATGGCAACTCAGCACCGTCTGGCCAA

+HWI-EAS443:3:28:1271:341#0/1  
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@HWI-EAS443:3:28:1321:1482#0/1  
CTGTTATTATGCCGTTGTACTTTAACACAGCCACTGCCCC  
+HWI-EAS443:3:28:1321:1482#0/1  
aab\_bbbabaa¥aaaaaaabaabaaa`aaX`\_aZ¥T[R  
@HWI-EAS443:3:28:1453:316#0/1  
ATTCATATCATGCTCCCCCTTGAATGCAGAACCTTCTTC  
+HWI-EAS443:3:28:1453:316#0/1  
a^^^T^`RXa\_a]\_XKZ^X`\_`]¥\_\_XIP\_^ZRM`^YY\_0  
@HWI-EAS443:3:28:1542:64#0/1  
TCCCTCTCCATACTCAAGATTTGAGTCAGTCGCTTGG  
+HWI-EAS443:3:28:1542:64#0/1  
`aa]ba`[\_ab`\_Y\_\_```\_a`\_a`\_a\_\_^¥\_\_]¥\_]\_\_V[  
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+HWI-EAS443:3:28:1547:95#0/1  
\_`bbba¥\_aa^`[W`a¥a¥\_a^\_]Pa^a`S`\_ZX]^`]¥\_  
@HWI-EAS443:3:28:1569:902#0/1  
GAGTGGTCAGGATATAGCGGGAGTTTTGTTTCAGCATCCAG  
+HWI-EAS443:3:28:1569:902#0/1  
a`\_Vaa`^\_a`Y\_X\_\_\_V`aZL^RZ\_\_VSQORYGVVWVXV  
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TGGGCTCCTGTCTTTAATGGTTCCATTGGAATGTTTGTCA  
+HWI-EAS443:3:28:162:1260#0/1  
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GCTCCTGTTATCCTGATTCTAGTGAAATCACATGTGTGTG  
+HWI-EAS443:3:28:166:1951#0/1  
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+HWI-EAS443:3:28:1711:941#0/1  
a¥b]bbba`\_aa\_] [TJa]\_`^^`\_aaY^aa\_\_QaR]\_\_¥  
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CAACGGCATAATAACAGACACTATCAAGAGTTGGAGAAAC  
+HWI-EAS443:3:28:203:1097#0/1  
a`bba`ababaaaaaababaaa`\_¥`\_¥`\_a¥^^^V`¥a  
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+HWI-EAS443:3:28:20:1898#0/1  
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+HWI-EAS443:3:28:226:1052#0/1  
\_a`a`\_`\_baaa`aa`aab`\_b`a\_a¥\_a\_¥`\_`\_¥`\_`\_`^Y^  
@HWI-EAS443:3:28:260:1486#0/1  
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+HWI-EAS443:3:28:260:1486#0/1  
a^^aabbbbbb¥baZ¥\_¥`\_`ba]S[[[``]\_ZU`\_^ [V\_^TW

@HWI-EAS443:3:28:285:414#0/1  
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+HWI-EAS443:3:28:285:414#0/1  
a`a]\_`\_aaa¥`a`\_]a^`\_[M\_XHPZ\_`^`¥GVW[RTTV  
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GGTTGGTCTTGCCAGACGGTGCTGAGTTGCCATTTACCA  
+HWI-EAS443:3:28:326:607#0/1  
^b[aab`bbbabaaa]UY]a`\_`a^¥a^[Taaa`aba\_a`  
@HWI-EAS443:3:28:358:386#0/1  
CTGGGACAGACAATAACTTCTCAATAAAGCAAGATATCGT  
+HWI-EAS443:3:28:358:386#0/1  
abbb`X`\_]`^abaaa`\_aaaaa`aaaa\_aaa^aaa\_a^  
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+HWI-EAS443:3:28:426:207#0/1  
aa]aaU\_a]SYa\_a``aGa\_a\_a]aU`\_aZ`T¥\_\_\_Y¥\_W  
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CAGACACTATCAAGAGTTGGAGAAACAATATATTGAGAAC  
+HWI-EAS443:3:28:437:290#0/1  
a]b`a¥bbYaba``P[aa[TS^a`]]a`\_`\_a\_a`aa`\_a`  
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+HWI-EAS443:3:28:483:124#0/1  
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+HWI-EAS443:3:28:483:1413#0/1  
aaWZXML]aaa`]]`RUQ`[WXZR]ZZ]WV]^GX¥LZOU  
@HWI-EAS443:3:28:498:405#0/1  
TGAGAACACAAGAGTCTGAATGTGCATGTGTAATGGTTC  
+HWI-EAS443:3:28:498:405#0/1  
aaa`][`a`aYaaa¥^aa`\_`aY\_\_\_``[¥X\_]W^`Y^`  
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+HWI-EAS443:3:28:517:1512#0/1  
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GGGGGATGTGTTTGTCTATAAGGGAACCATTCATATCATGC  
+HWI-EAS443:3:28:536:1813#0/1  
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CATTAGGGCGTGGATTGTCTCCGAAAATCCCCTGCATAT  
+HWI-EAS443:3:28:635:1582#0/1  
a]a`\_V\_]J¥``a``Y\_a\_a\_a]\_aa`\_[R]][\_[^`\_]  
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+HWI-EAS443:3:28:684:240#0/1  
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@HWI-EAS443:3:29:1136:535#0/1  
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+HWI-EAS443:3:29:1136:535#0/1  
a\_a`a[a````aa`¥\_\_^`\_^\_a¥`\_\_`^`¥\_\_ZX¥^W\_\_  
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+HWI-EAS443:3:29:113:1007#0/1  
\_bb^a\_]aaaa\_\_\_\_aaaaaaaaab`aa\_ba`aaa`a``\_[\_`  
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GCGGGAGTTTTGTTTCAGCATCCAGAACTAACAGGGCTGGA  
+HWI-EAS443:3:29:114:30#0/1  
a`aaa¥a[a`\_a]^`^`a`\_]\_^`¥S^Y^^\_]^^]]Y]\_WW  
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ATCCGTTCCGATCCCAAATCATCTCAAACCGTTTCTTGA  
+HWI-EAS443:3:29:1226:192#0/1  
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ATCATGACAAGCACTTGCTGACCAAGCGACTGACTCAAAT  
+HWI-EAS443:3:29:127:1286#0/1  
aaa^`a¥a\_```aa\_`\_aa`````a`¥^`^`Y```\_Y\_^a\_YX¥  
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GTCTGGGCCAGAAATTCCAATTGTTAGCCAATTGATGCCA  
+HWI-EAS443:3:29:1282:971#0/1  
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a`baaaabbbb`¥^`\_a`b\_a^`ba\_[a\_`]aaa[^`\_`aa  
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+HWI-EAS443:3:29:1525:553#0/1  
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+HWI-EAS443:3:29:1630:1401#0/1  
aYa`a]```Xa[[]`¥[W`a]a\_`[ZNN^^`\_^`^^¥]]BB  
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+HWI-EAS443:3:29:1645:1430#0/1  
a\_\_^\_X¥\_W\_\_YLSTK^aaVXXWZ\_ZX^LDW\_]U^UBBBB  
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CGCTAGTCCAGATTGTGTTCTTTGGGTCGCCCTCTGAT  
+HWI-EAS443:3:29:1648:1677#0/1  
]^abb\_a\_`abaaabX\_[]`]a¥^`^T`Wa`aaaba\_a\_a  
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+HWI-EAS443:3:29:1654:750#0/1  
^`¥`bYa`ba]Ya\_]\_PN¥¥0Y`¥a]\_\_[a^\_a¥a^a\_BB  
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+HWI-EAS443:3:29:1703:980#0/1  
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+HWI-EAS443:3:29:1726:1648#0/1  
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CCATCCACTAACAGGGCAGAGAGGAATTGCCCCGTAAT  
+HWI-EAS443:3:29:1771:440#0/1  
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+HWI-EAS443:3:29:195:139#0/1  
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ATTGGAATGTTTGTCTTTAGCAAGGCCCTTGAGTCAAG  
+HWI-EAS443:3:29:207:1341#0/1  
abaa\_`^a`¥aaZYa```\_^`\_ZOW`aa¥aa][\_[Ya`^X  
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+HWI-EAS443:3:29:228:1586#0/1  
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+HWI-EAS443:3:29:255:239#0/1  
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CAAGAGTCTGAATGTGCATGTGTAATGGTCTTGCTTTA  
+HWI-EAS443:3:29:396:685#0/1  
ZaaZQ\_W¥`````a`Y\_a`b¥¥`\_S\_abb\_aaaaa]``aZ  
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GCCGTTGTACTTTAACACAGCCACTGCCCCATTGTCTGGG  
+HWI-EAS443:3:29:432:468#0/1  
aaaa`abaa\_aaa`a`a`a`\_a^`\_¥\_\_¥¥\_\_VW¥¥¥UX  
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+HWI-EAS443:3:29:452:159#0/1  
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@HWI-EAS443:3:29:470:655#0/1  
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+HWI-EAS443:3:29:470:655#0/1  
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+HWI-EAS443:3:29:505:199#0/1  
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+HWI-EAS443:3:29:581:630#0/1  
^\_\_^^baba`aX`\_\_`\_]aa`Y][`]SS^\_\_`\_\_^W\_[B  
@HWI-EAS443:3:29:669:1714#0/1  
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+HWI-EAS443:3:29:760:700#0/1  
a`aba\_b\_\_aaa^Z`a`]]Z\_\_``[\_\_\_\_`^\_\_^¥\_`^``[  
@HWI-EAS443:3:29:78:1347#0/1  
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+HWI-EAS443:3:29:78:1347#0/1  
abaabbbba^`\_\_Y`\_¥aa`P¥`¥^a[YXQ`]Z¥[Z\_NZ  
@HWI-EAS443:3:29:813:1576#0/1  
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+HWI-EAS443:3:29:813:1576#0/1  
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+HWI-EAS443:3:29:863:79#0/1  
a]]Z\_\_a`aaaVa``\_\_]\_Y`\_\_VZ]Q]T[]`])`¥VWBB  
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+HWI-EAS443:3:29:872:818#0/1  
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@HWI-EAS443:3:29:894:955#0/1  
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+HWI-EAS443:3:29:894:955#0/1  
a\_abbaa^aaaabaaa`aaaa`])`a]`aa¥\_Yaaa`a]^  
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+HWI-EAS443:3:29:948:81#0/1  
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+HWI-EAS443:3:29:958:1153#0/1  
`¥Ybab`\_ab`ZMZ\_¥^a`aQY]\_`a]a^P[P\_\_\_\_  
@HWI-EAS443:3:2:1102:610#0/1  
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+HWI-EAS443:3:2:114:810#0/1  
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+HWI-EAS443:3:2:1206:92#0/1  
aa`a]aaa[\_a\_¥aaU`\_a^\_Y``[\_`a^^\_]`]W]Z^\_\_X  
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]ba[^VY`^X`Xa\_aXabaaa^L¥YaY\_aa^[^[]aa\_U^  
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+HWI-EAS443:3:2:1444:474#0/1  
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@HWI-EAS443:3:2:1445:1435#0/1  
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+HWI-EAS443:3:2:1445:1435#0/1  
Z\_ab`bbaaaba`abababaaaa¥^]`^aa\_^aaaU`YV  
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+HWI-EAS443:3:2:1464:518#0/1  
`a\_^aZ\_ab^^`\_X¥Ua`Y]]¥Y^`Ua0\_]Y]V\_¥XY]  
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CACATGTGTGTGCAGGGATAACTGGCATGGCTCGAATCGA  
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+HWI-EAS443:3:2:1746:459#0/1  
aaaa\_aa`babPa¥\_S\_a^aYa^Y]\_^[^¥`^^`\_^[\_[^  
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+HWI-EAS443:3:2:1747:1115#0/1  
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+HWI-EAS443:3:2:180:352#0/1  
`^baaQ^`aWaU`ZYIRa\_a\_\_ZN]`\_RZ^^S]]\_][WU\_  
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+HWI-EAS443:3:2:183:598#0/1  
aa^`aa`[aaaa]Ra^aa[\_a^a`\_\_VV\_`\_``^W\_¥]``  
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+HWI-EAS443:3:2:190:298#0/1  
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@HWI-EAS443:3:2:223:1968#0/1  
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+HWI-EAS443:3:2:223:1968#0/1  
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+HWI-EAS443:3:2:25:226#0/1  
aaa`a[\_`\_`^a\_`¥`¥¥¥¥^\_^¥\_WY¥UQUWWBBBB  
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+HWI-EAS443:3:2:308:1868#0/1  
aa[aaa`a]``Y\_¥```[¥^`^S\_Y`Y¥[¥S\_\_W[Y`B  
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+HWI-EAS443:3:2:332:1076#0/1  
`aaa]Z`]a^\_\_\_\_[X`Y^`\_`U\_W^Y]\_\_\_\_0`S]]]\_\_\_\_  
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+HWI-EAS443:3:2:34:1599#0/1  
aVIb` `baba]VYbabV]]][aba\_[aa\_ba]^aa`X[a`Y  
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+HWI-EAS443:3:2:375:784#0/1  
a^a`aaa^`ba\_a]]a]\_^a^^`^YX¥`\_Y`\_Y^^O^Y  
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+HWI-EAS443:3:2:385:1975#0/1  
a^QO][¥[YR¥X]^WR]\_\_US`^\_WNV^[]ZP][¥]Z]BB  
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+HWI-EAS443:3:2:427:1581#0/1  
a`\_aab\_aaaa^aRaVaa`a`\_\_W\_``]Xa^\_`^`X`\_`\_  
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+HWI-EAS443:3:2:438:1666#0/1  
a\_\_Yaaa`a\_ab`\_`aaaa`¥\_a\_`\_aa^a`Z`\_`¥R`¥  
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+HWI-EAS443:3:2:454:1182#0/1  
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+HWI-EAS443:3:2:505:1707#0/1  
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+HWI-EAS443:3:2:507:789#0/1  
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+HWI-EAS443:3:2:549:1604#0/1  
ab`ababba``Yb`aaaba``baaa\_aaaba¥`aaa\_Wa^  
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+HWI-EAS443:3:2:562:23#0/1  
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+HWI-EAS443:3:2:601:790#0/1  
aV¥aaa`aWZ^[Z^¥\_U\_S SX\_WS^]\_NXX^W]UU]VY]  
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a^Y¥W[`H]X[`Va¥^aX^`\_[R[FQY^]^S\_XWVNUVB  
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+HWI-EAS443:3:2:712:63#0/1  
aaa\_a\_]Y]^a\_\_\_\_`\_aaa\_] ^Y\_]`[][[]^[[Y][^  
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GGACCACAACCTGCCTGTCTTATCATTAGGGCGTGGATTGT  
+HWI-EAS443:3:2:761:867#0/1  
a`^UV\_\_\_aS^`\_¥^aVZ[\_\_\_ZW\_] [GWZZ[¥W^^WW¥\_B  
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GCCCCTAATTATCACTATGAGGAATGCTCCTGTTATCCTG  
+HWI-EAS443:3:2:774:295#0/1  
aaa`a`aa`\_a`¥\_\_\_\_`aa`\_]\_\_\_\_^X\_] [^`Z^^]Z]]^  
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TTCAAATACGGCAATGGTGTGGATAGGGAGAACTAAAA  
+HWI-EAS443:3:2:90:1245#0/1  
^R]aa^a\_¥V` [T`V]N^Xaa\_\_^¥\_]QT\_^Z]^ [¥\_  
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CAAATCTTGAGTTGTATGGAGAGGGAACCTCACCAATAGG  
+HWI-EAS443:3:2:929:767#0/1  
a^UR\_aaa`V^]aWSSa¥¥ababba]\_```\_`P[`]X`a\_

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+HWI-EAS443:3:2:946:552#0/1  
a\_a^\_\_`\_]¥a]¥V\_W`WQ\_¥¥WV¥W¥WVUWWWV¥WVB  
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CAACTGCCTGTCTTATCATTAGGGCGTGGATTGTCTCCGA  
+HWI-EAS443:3:2:986:696#0/1  
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AGCCCATCCACTAACAGGGCAGAGAGGAATTGCCCGCT  
+HWI-EAS443:3:2:988:770#0/1  
aX^]\_aa\_\_\_^\_^`^\_aa`]\_a¥a^`]`^¥¥Z\_`WKHXQW  
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+HWI-EAS443:3:2:998:956#0/1  
^`U¥]VS`bbaZaMY`a`Y¥`[P\_`\_a]`[\_aZ[a\_\_[X  
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+HWI-EAS443:3:30:1012:1468#0/1  
ab`^^¥]\_X¥`XY^`^^`aaa[`^aa^\_`WY¥YZQZ]  
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+HWI-EAS443:3:30:1025:1854#0/1  
`]\_]\_^a\_a`^a``¥a\_\_`^Y\_`[`\_\_\_S`]^WY^BB  
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+HWI-EAS443:3:30:1152:1499#0/1  
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+HWI-EAS443:3:30:1161:65#0/1  
aabbY`\_aa]aaaa`\_a\_\_aa\_Ua]\_^\_\_`\_]`X^]\_`\_\_  
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+HWI-EAS443:3:30:1167:1232#0/1  
``RK\_`\_aaaaVL\_`^`]aWL]VUUDVNYVZ^[V^USGV  
@HWI-EAS443:3:30:1182:1442#0/1  
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+HWI-EAS443:3:30:1182:1442#0/1  
`¥]¥`a`Ra`W¥\_W^a]]]a\_aVa``\_]`^`ba\_^Z]]]¥  
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+HWI-EAS443:3:30:1320:1962#0/1  
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ATGGGCTCCTGTCTTTAATGGTTCCATTGGAATGTTTGTC  
+HWI-EAS443:3:30:1357:1775#0/1  
\_]\_\_^Zab`¥Y¥^`a``]Q]\_]\_WU]`Y¥¥\_[¥S\_[YOS  
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+HWI-EAS443:3:30:1366:268#0/1  
abababb]b[`aaY\_aa`aa`ba\_\_\_a]U\_]¥^\_]R\_]`^`  
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aaaa`b`bbbaa]a`aabab\_a`abaaaa\_aa\_a\_a`PM^  
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+HWI-EAS443:3:30:1397:1461#0/1  
`\_X`bbbbaa`abaaabbabab``aa`]\_a\_baaa^]\_`a  
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+HWI-EAS443:3:30:1439:1632#0/1  
ZOa^^`\_a`a^\_\_`¥aaa\_aa\_X[Y`^]\_\_^^`\_`^U^Z[  
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+HWI-EAS443:3:30:1514:1616#0/1  
aaab]^Saa`Z^\_Z^Z^`a¥`X]UY\_`a]\_YaN\_`^`\_¥  
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+HWI-EAS443:3:30:1544:1450#0/1  
\_P]aVaXZ]^^[^\_a[Z\_aa^P\_V¥]aZ[^X[^N]T¥^  
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+HWI-EAS443:3:30:1663:594#0/1  
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aab][ZaaaH[\_W`Saaa]`¥Y]R\_a\_a^aa^^^V\_^`  
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aaa`aa``aa`\_\_\_\_`¥]W\_\_]^\_\_\_\_`\_ZZ`Z]^Z^XZZ  
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¥X]Z^\_W\_Qaa\_YMX^\_TX\_TZXR[\_^THTT\_¥F]RFNPR  
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+HWI-EAS443:3:30:188:1444#0/1  
abaab^`UUab^\_Z]¥]YO[[\_^\_¥\_YSKQRY]\_ZPZ¥YVZ  
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AGATAGGATACATATGCAGTGGGATTTTTCGGAGACAATCC  
+HWI-EAS443:3:30:219:349#0/1  
a\_Ta`aa]`\_\_YZ```a`^`a`W`\_aa\_Ya]\_\_\_\_a\_]\_]\_  
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GTCATTTAGCAAGGCCCTTGAGTCAAGAAGAAGTTCTG  
+HWI-EAS443:3:30:235:1034#0/1  
aababa`baa[\_abaabaaaa^ba¥aa````\_Y^`¥¥  
@HWI-EAS443:3:30:265:591#0/1  
TGAAATTAGCGGGCAATTCCTCTCTCTGCCCTGTAGTGG  
+HWI-EAS443:3:30:265:591#0/1  
\_aMX`Y`ba\_\_aY`aa`aa\_]\_[a`\_[Y]]`XY\_Z  
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+HWI-EAS443:3:30:292:830#0/1  
ab`aababVbbbaaab`b`aaa`aZXaa````X\_\_¥¥\_  
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CTTGGGAATCAAAATCAGATTGAAACATGCAATCAAAGCG  
+HWI-EAS443:3:30:383:111#0/1  
aaabbaaaa`a``aaabaaaa`a\_aaa`a\_a``\_\_`[`  
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+HWI-EAS443:3:30:394:379#0/1  
abbbZ\_^]baa`a\_aa`¥`a`aa¥aa``aa`\_aa\_a]`\_`\_  
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+HWI-EAS443:3:30:415:1639#0/1  
V\_a`]W¥¥^\_ZVHYTZYb^VQYbaa\_a\_Y¥HRL[[`JYBB  
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@HWI-EAS443:3:30:883:1126#0/1  
AAAGGATATGCTGCTCCCGCTAGTCCAGATTGTGTTCTCT  
+HWI-EAS443:3:30:883:1126#0/1  
XW`\_V]U0¥b^X¥\_`^[\_`TZR]NJKY`U¥]XH]ZYQSLT  
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+HWI-EAS443:3:30:894:1864#0/1  
aaba\_\_QS\_Ua\_b^^[\_¥]^U[aaZ]]U]¥TTYN\_[``]R  
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CTCAATTCAACTTGGAATCAAATCAGATTGAAACATGC  
+HWI-EAS443:3:30:902:326#0/1  
abbababbabbbbbbbaaa`a`aaabababaaa\_aaa`  
@HWI-EAS443:3:30:963:1754#0/1  
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+HWI-EAS443:3:30:963:1754#0/1  
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TTTCAACCAGAATCTGGAATATCAGATAGGATACATATGC  
+HWI-EAS443:3:30:978:1148#0/1  
a\_¥Z\_a\_b\_]^^\_¥¥a^abaab]XaYaa^]aa[D^``[H\_  
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CAATGGTGTGGATAGGGAGAACTAAAAGCATTAGTTCA  
+HWI-EAS443:3:31:1038:516#0/1  
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+HWI-EAS443:3:31:1071:1801#0/1  
`\_abab\_¥¥QZ[^`¥XTFVKa`ZR]\_`\_TN][\_\_\_\_QLZ  
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+HWI-EAS443:3:31:1086:833#0/1  
^W^]`bbaba`a^\_]b\_N¥\_]a`ba^¥^a]a\_\_\_bBBBBB  
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+HWI-EAS443:3:31:1088:574#0/1  
\_ab[b^\_Vba``Y¥`¥^T^J¥WWW¥[K\_ba[SZ[J\_``aa\_  
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+HWI-EAS443:3:31:1093:1745#0/1  
aXVXa[Za\_Pa`a]]aV^\_\_\_I^]U^YP[^Y]X^^]XX^L  
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GACAGACAATAACTTCTCAATAAAGCAAGATATCGTAGGA  
+HWI-EAS443:3:31:1103:1658#0/1  
a`b¥^aaa\_Z`b]^Y¥abab`babaa`aaaa\_[a`[aaa^  
@HWI-EAS443:3:31:1106:180#0/1  
TCAAATCAGATTGAAACATGCAATCAAAGCGTCATTACT  
+HWI-EAS443:3:31:1106:180#0/1  
ZS\_b`\_a]a^a\_bbbaaa\_a``\_`^`aa¥V^\_^Za\_]`\_`^  
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+HWI-EAS443:3:31:1196:98#0/1  
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+HWI-EAS443:3:31:1291:1003#0/1  
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+HWI-EAS443:3:31:1327:1956#0/1  
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+HWI-EAS443:3:31:135:1973#0/1  
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+HWI-EAS443:3:31:1421:1118#0/1  
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+HWI-EAS443:3:31:1452:595#0/1  
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+HWI-EAS443:3:31:1458:170#0/1  
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+HWI-EAS443:3:31:1475:685#0/1  
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+HWI-EAS443:3:31:1517:390#0/1  
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+HWI-EAS443:3:31:1569:1706#0/1  
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+HWI-EAS443:3:31:161:1093#0/1  
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+HWI-EAS443:3:31:1773:372#0/1  
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+HWI-EAS443:3:31:1774:1365#0/1  
abbab\_a`baaa\_a^aa`a\_a``\_\_aa]a`\_`^`]]]\_[  
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+HWI-EAS443:3:31:220:1238#0/1  
a\_aa¥S`aa\_aaba^aaa^¥SY]^][^a`[]\_aZ^` `a`a  
@HWI-EAS443:3:31:319:1295#0/1  
CTGACCACTCATTTATTCCTACGATATCTTGCTTTATTGA  
+HWI-EAS443:3:31:319:1295#0/1  
a[Y]\_a[^`\_\_\_\_]` `^`\_[^Y\_ZZU¥]XR^[^0^]\_ZUW  
@HWI-EAS443:3:31:33:1734#0/1  
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+HWI-EAS443:3:31:33:1734#0/1  
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+HWI-EAS443:3:31:444:731#0/1  
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+HWI-EAS443:3:31:449:1536#0/1  
aaa`b`aba\_^`]aY`a^`[]`W`aaa\_aaab`aaZa^a]  
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+HWI-EAS443:3:31:457:854#0/1  
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+HWI-EAS443:3:31:459:1400#0/1  
aaa\_a^`SaVZ`¥^a`Z]\_a`\_¥\_U¥HW¥[\_\_\_\_XS\_\_^^  
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CAGTGGGATTTTCGGAGACAATCCACGCCCTAATGATAAG  
+HWI-EAS443:3:31:463:1665#0/1  
aaaa]abababab\_\_bbb`bbabbbbaaabaab`^a`ab]  
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+HWI-EAS443:3:31:477:1910#0/1  
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+HWI-EAS443:3:31:515:629#0/1  
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+HWI-EAS443:3:31:524:430#0/1  
¥U¥`V\_UUTa[aa¥\_]U[WSOU]^ZYLT SZPT00VYVVQ  
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+HWI-EAS443:3:31:666:247#0/1  
a`b`\_`\_`aaaaaaaaa`a```aaaa```a`\_`^¥^  
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+HWI-EAS443:3:31:706:1617#0/1  
aab][Y\_bY`a`\_`\_`a`aa^a[VWaa`YS`¥^```^\_`^Z  
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+HWI-EAS443:3:31:802:116#0/1  
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+HWI-EAS443:3:32:1122:1820#0/1  
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+HWI-EAS443:3:32:1122:479#0/1  
`Z\_\_aa``aa][Q¥¥^]`¥[Z`\_`^^^[^U^[`\_`^VR[Ya  
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a`J]^LR[T]\_b`[aaa\_P`b[a\_`]aaaaaaZaaa^`Z  
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+HWI-EAS443:3:32:1187:1495#0/1  
X]^\_`^`[X^^Z^\_\_Y^^\_Z^\_WTY^aaZSNS¥VL^^][  
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+HWI-EAS443:3:32:1314:1398#0/1  
aba`aaab]abbaaaXa\_aaa^a`a\_^aaZ^aa^`Xaa]`  
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+HWI-EAS443:3:32:1327:685#0/1  
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+HWI-EAS443:3:32:1416:1830#0/1  
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a`bbba]a\_`a\_a`\_]`]a\_`^U\_`^\_¥W^]^[\_`^\_`  
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+HWI-EAS443:3:32:1527:1298#0/1  
a[^`^a```^]a\_a\_ba^W`a\_`U``^\_\_\_\_^^Xa\_`\_a`¥W  
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+HWI-EAS443:3:32:1700:496#0/1  
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+HWI-EAS443:3:32:225:1312#0/1  
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+HWI-EAS443:3:32:251:1614#0/1  
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+HWI-EAS443:3:32:304:1836#0/1  
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+HWI-EAS443:3:32:328:274#0/1  
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+HWI-EAS443:3:32:2023#0/1  
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+HWI-EAS443:3:32:455:109#0/1  
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+HWI-EAS443:3:32:470:258#0/1  
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a\_aa\_WZ]`TP]a`a]]^R\_YVV][ZRXMS\_\_`\_\_Z^^WY  
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+HWI-EAS443:3:32:517:1854#0/1  
a`bab¥abba]bbaaab`aab[R^a\_\_\_\_\_a`a\_\_a\_aa[J  
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CTGCATTCCAAGGGGAGCATGATATGAATGGTCCCTTA  
+HWI-EAS443:3:32:563:1592#0/1  
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CAGACATATGTTAACATCAGCAACACCAACTTTGCTGCTG  
+HWI-EAS443:3:32:565:773#0/1  
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+HWI-EAS443:3:32:566:1859#0/1  
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+HWI-EAS443:3:32:606:691#0/1  
I]`ZX]\_^X^a`aXQ¥Z\_\_UU]WZXU^Y[\_^0`\_RWGZ`  
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+HWI-EAS443:3:32:675:133#0/1  
ab\_\_aaa\_\_aaa^a^a\_YW[X`\_\_U^aaZ]`\_U\_[]\_`^Y  
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CAATTGATGCCATCATGACAAGCACTTGCTGACCAAGCGA  
+HWI-EAS443:3:32:699:1190#0/1  
abba^[a][\_`X^a\_`\_\_a``\_]\_]]]^^^]]VZ[^\_^^  
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a\_ab`b]aX^a]a`aaa\_¥^Xa[NT[W[]^^\_Y]¥W¥^UW  
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+HWI-EAS443:3:32:787:513#0/1  
aaaaaZaaa`aaaaaaa\_`a\_H^aZaa`\_\_`\_`a^\_NV^¥^  
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+HWI-EAS443:3:32:828:410#0/1  
`^^^bb^aa\_\_aa¥`\_\_`a]`\_\_`aa\_\_a`a`a`¥[``UXW  
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+HWI-EAS443:3:32:848:819#0/1  
a`\_]^^aWa\_aa]\_]\_a\_\_\_0\_^`Z\_XRY\_\_0¥UZZ`¥GG  
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+HWI-EAS443:3:32:944:1260#0/1  
a]^^^\_aY`b]^^aY^`Y`^^\_WGY\_\_`]\_aa\_\_\_\_\_  
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+HWI-EAS443:3:32:976:133#0/1  
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ATCCGTTTCGGATCCCAAATCATCTCAAACCGTTTCTTGA  
+HWI-EAS443:3:32:996:726#0/1  
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@HWI-EAS443:3:33:1021:689#0/1  
GAAGAAGTTCTGCATTCCAAGGGGAGCATGATATGAAT  
+HWI-EAS443:3:33:1021:689#0/1  
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+HWI-EAS443:3:33:1028:261#0/1  
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+HWI-EAS443:3:33:111:208#0/1  
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+HWI-EAS443:3:33:1126:735#0/1  
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+HWI-EAS443:3:33:1224:1065#0/1  
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+HWI-EAS443:3:33:1271:1816#0/1  
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+HWI-EAS443:3:33:1285:720#0/1  
ab¥`\_W¥X]a^¥Z]\_^`^^¥b\_^ZY`Va]\_\_`M]\_^[¥ZV



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+HWI-EAS443:3:33:1415:1097#0/1  
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+HWI-EAS443:3:33:1435:995#0/1  
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+HWI-EAS443:3:33:1783:626#0/1  
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+HWI-EAS443:3:33:290:1776#0/1  
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+HWI-EAS443:3:33:32:1687#0/1  
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¥¥IX¥bYaa`\_]`\_`b¥b`bba]ab`Xab`aaa[`a\_`[  
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+HWI-EAS443:3:33:393:1118#0/1  
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+HWI-EAS443:3:33:403:379#0/1  
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+HWI-EAS443:3:33:416:767#0/1  
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+HWI-EAS443:3:33:509:716#0/1  
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+HWI-EAS443:3:33:90:1725#0/1  
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aY`a`a^`aa\_ba^a`\_\_a\_\_aaU\_XY\_¥a\_]\_XWX]]UX  
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+HWI-EAS443:3:34:1170:743#0/1  
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+HWI-EAS443:3:34:1298:1524#0/1  
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+HWI-EAS443:3:34:1314:1710#0/1  
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+HWI-EAS443:3:34:391:122#0/1  
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+HWI-EAS443:3:34:559:1057#0/1  
¥```^^UY¥a`ba`V`\_]\_^baaaaab^`¥[¥TGZQ][^XW\_  
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+HWI-EAS443:3:34:836:844#0/1  
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+HWI-EAS443:3:34:86:1641#0/1  
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+HWI-EAS443:3:34:999:445#0/1  
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+HWI-EAS443:3:35:1033:570#0/1  
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+HWI-EAS443:3:35:110:122#0/1  
a`aaa`a`\_`\_aZNZ^`^W[¥\_¥`^¥W\_`^¥WSS`\_`\_¥\_¥  
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+HWI-EAS443:3:35:1160:109#0/1  
V\_`T¥QVZSWa\_Za\_RGLYabXHbaaI`Yababaa\_a`[a  
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GCTTGGTCAGCAAGTGTGTCATGATGGCATCAATTGGC  
+HWI-EAS443:3:35:1168:102#0/1  
aa`aaaR^`^`\_[aXa`\_`Y^``\_ZYZX^XZ]^`^XTX]  
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^V\_RQ¥T^`[VSW`Z]R¥PZU\_N[¥VI\_W^]\_Z\_ZaYP\_\_  
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+HWI-EAS443:3:35:1478:1609#0/1  
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abb`Wabbaabbbbaaa`a\_aa`a```Y`a```\_\_\_]\_Y\_



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+HWI-EAS443:3:35:205:382#0/1  
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+HWI-EAS443:3:35:263:360#0/1  
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a\_¥S]¥\_\_]abb[YJa[]a^\_UZX`YYZ\_[UWX`X[KKYS  
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a`aaaa`\_`ba\_^`aa``aaa\_]``a`^a¥\_\_`\_¥\_a\_T  
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+HWI-EAS443:3:35:457:266#0/1  
aa^aaaa`¥`a`a`a`a`a`a`¥\_¥VUT\_¥OZ`^ZT``Z``¥\_U  
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+HWI-EAS443:3:35:474:30#0/1  
abababab`bbaaaaaa`aa\_a\_\_aa```\_¥`¥VXRT¥^  
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+HWI-EAS443:3:35:551:663#0/1  
a\_W¥ZZa\_¥\_aa]^a\_aaa\_U\_Z^VTV\_\_^[^]]`][U¥  
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+HWI-EAS443:3:35:569:1197#0/1  
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+HWI-EAS443:3:35:663:1281#0/1  
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aaaaaaaaaaa\_a` `[aa` `\_a` ``\_¥a`\_a` ``aaaY¥a  
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ab`QWWZ^b\_\_^WFQY]a¥¥`b\_R]^¥Q`\_\_ [XY[] [NLY  
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\_P^UU` ``]Ya`\_VT¥aX[`¥^R[¥XLY\_``^aX\_Y\_^ZZ  
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¥^`Y\_aab` `bbababbbbbbb` `b]aa`\_a`\_a`aaaaX^  
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aaaaa[aabab`\_^\_a\_\_`aaa^aaa\_Q^` ]\_Z`\_aa\_a  
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`aba`\_a`\_ZS\_aa\_aa`aaaa\_a\_a`Qa¥¥a]`\_`\_`a^  
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+HWI-EAS443:3:36:1182:1472#0/1  
aaa\_a\_]W\_a` `a]`\_Y^]¥[\_\_\_\_\_XQ^`\_^]U]¥` [V]  
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aab^aaaaaaaaa^`aa^a]a\_\_a\_a^`^`\_^]`\_`\_¥a  
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]Y¥bab\_b`baa\_aaZ0\_\_`U]a]\_^\_a\_`]\_\_\_\_[\_Z]YV  
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\_a`babb\_[HPUY\_Z0]a]\_YZ^XZ¥aV`\_bVUXYQX\_VZ  
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V\_baaaabbaababa`aba^a`^`\_a``¥aaa\_U]Y]aa\_`  
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+HWI-EAS443:3:36:262:123#0/1  
a\_aa`aaaaa^aaaaaaa¥a`\_¥¥a`V[^`\_`\_`[¥]Y\_\_¥

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\_\_a¥aaba\_[abba[a`]ZY\_a`b`a`bbb`V[^`bbab  
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a`^^]Z^X]WW[]^\_Z^\_aXUTX0][\_^^][XXVLV]HSY  
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a``bbY¥^\_aaZUQPX¥a^X¥aY\_W`\_Y¥XN[\_Y\_]`X¥Y  
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GCTCCTGTCTTTAATGGTTCCATTGGAATGTTTGTCAAT  
+HWI-EAS443:3:36:593:894#0/1  
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@HWI-EAS443:3:36:621:423#0/1  
CGCTAGTCCAGATTGTGTTCTCTTTGGGTCGCCCTCTGAT  
+HWI-EAS443:3:36:621:423#0/1  
abaaab\_aaab```a\_a¥\_aa``\_\_a¥^Y`^\_]^\_\_\_\_a[^  
@HWI-EAS443:3:36:635:589#0/1  
CCGCTATATCCTGACCACTCATTTATTCCTACGATATCTT  
+HWI-EAS443:3:36:635:589#0/1  
aaaa`aaaa`a```\_a\_a`\_``^`\_`^]`Y]\_`^\_`^]  
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+HWI-EAS443:3:36:683:1223#0/1  
ab`^^^a`Y^\_aa]WZ`^a¥YWS^\_a\_¥]]`¥^\_¥XJZ0Q  
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+HWI-EAS443:3:36:721:1038#0/1  
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+HWI-EAS443:3:36:752:667#0/1  
ab^aaZabbb`^baabbaaaaaaaaaaQ\_aSZZ]V[JTX\_  
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+HWI-EAS443:3:36:811:804#0/1  
X^\_W\_a\_[`S`ZZaJ[X^aYW\_^`\_^`T¥F\_PXU`a^][¥  
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Q\_I[Z``X¥[``¥¥]a`¥W¥¥¥¥ZPV\_ZR^`^a\_MY\_`ZO  
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+HWI-EAS443:3:36:878:602#0/1  
`P`aZ\_¥``a`^RRV`\_\_X``[^N^U]UM^[U[YU¥TLZ[  
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+HWI-EAS443:3:36:893:523#0/1  
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+HWI-EAS443:3:36:905:729#0/1  
\_\_baa`a\_\_`^[]`a\_aa\_I\_^ZX``¥]`\_\_PZPY^a\_P  
@HWI-EAS443:3:36:912:949#0/1  
GAAATCACATGTGTGTGCAGGGATAACTGGCATGGCTCGA  
+HWI-EAS443:3:36:912:949#0/1  
aabbaba]R\_b¥Z]`V\_aba\_^Q¥\_Z¥``[`[]aVa¥`XQ  
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+HWI-EAS443:3:36:917:414#0/1  
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+HWI-EAS443:3:36:928:877#0/1  
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+HWI-EAS443:3:36:953:691#0/1  
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+HWI-EAS443:3:36:999:2008#0/1
abb`a`^baaaaa`[aaaa`_^_aaa__Y]`Y_[]_`_`[_

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+HWI-EAS443:3:36:99:14#0/1
a`V`Z]`aaa^aaa¥^^V^XFZYTAYWa¥¥W¥MJVS¥ZXV
@HWI-EAS443:3:37:1007:1161#0/1
GAACTAATGCTTTTAGTTCTCCCTATCCAAACACCATTGC
+HWI-EAS443:3:37:1007:1161#0/1
aaa``aaa_aa`a`__^a_aa`aa_a¥]USU`a`^^]`^]
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a`bYbabaaabbbababa]a_]__`a`QF[Z[VXa_aW_a
@HWI-EAS443:3:37:1067:1562#0/1
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+HWI-EAS443:3:37:1067:1562#0/1
ab]L]aaY]a`[U``¥`aZ`^aXTa____¥X¥``_T[____^
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+HWI-EAS443:3:37:1069:1447#0/1
`]Y^`_[_aa_`][¥a`^^aa`^U¥UaKM^¥¥¥¥aX[Y
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+HWI-EAS443:3:37:1086:968#0/1
_abaabbbabb__^_ababa`a`a_aaaaQI¥`b`a^`_`]
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+HWI-EAS443:3:37:1101:2035#0/1
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Y^abYa[``bbb`¥[a¥aa_a`a_a^_aS_b_I[`¥X_X]
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+HWI-EAS443:3:37:1193:742#0/1
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@HWI-EAS443:3:37:1267:1171#0/1
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+HWI-EAS443:3:37:1267:1171#0/1
ab_ab`a[aabaababab`aa[b`abb_VN¥aaaa`]aaa
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+HWI-EAS443:3:37:1281:435#0/1
`^`^`aaabaa`aab`a`]a]aY^Z```W^W^`U`a_¥Y
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+HWI-EAS443:3:37:1345:1056#0/1
V[¥W¥¥aa`X_¥aaW_aa`a^a]OZa_¥Z¥``]]][VSZZ
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``a]_R^^^NI`YY_Z`HZ]]]¥¥^[]¥_`^_LP^_S]OX
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aaaa¥Xa[Qa`X^^a`W]Za][YU_`_`Q¥_¥aT^`_0¥
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+HWI-EAS443:3:37:283:1105#0/1
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a_`aa```aa`aa^`a¥_^_a_]QZYPSNYUVV_TUY
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+HWI-EAS443:3:37:358:1306#0/1
¥^¥ZQ^a_¥`a^`a_Y`aaYZ_`a`_aYIYa][W`a_a`
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+HWI-EAS443:3:37:425:269#0/1
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+HWI-EAS443:3:37:468:486#0/1
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+HWI-EAS443:3:37:495:300#0/1
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+HWI-EAS443:3:37:622:1713#0/1
][FZ]`¥Zabaaa]_aab]¥¥]XX_[]]PP^`SX_[U[
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+HWI-EAS443:3:37:841:998#0/1
^¥_STZ¥Y¥```a````b_W`¥`_`^SPKU_X^]Y_aa^
@HWI-EAS443:3:37:874:815#0/1
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+HWI-EAS443:3:37:874:815#0/1
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+HWI-EAS443:3:37:880:1517#0/1
a_T_[`_V¥Y`X^b]ZYa^a^Yab`VOLPWZ¥W^`___P
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+HWI-EAS443:3:37:909:515#0/1
aS][QNVX[S]``[QU_a]__aa^^ZS`¥R_aRW[U`[^Z
@HWI-EAS443:3:37:930:1194#0/1
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+HWI-EAS443:3:37:930:1194#0/1
_^```abababaabb``bababbabaaaa¥¥aZ_aabaa`
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+HWI-EAS443:3:37:98:1233#0/1
aa`baZabab[bbbbaaa_]aa_aa^Z¥aaa`Ua_a_a_
@HWI-EAS443:3:38:1030:784#0/1
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+HWI-EAS443:3:38:1030:784#0/1
aaaaababaa_____`^aa__`___````^Z]_a¥__^Y
@HWI-EAS443:3:38:1035:1245#0/1
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+HWI-EAS443:3:38:1035:1245#0/1
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+HWI-EAS443:3:38:1037:140#0/1
aa`aaaa`]^V^a_Y¥`^````a`_`¥X`XX[___[^[FXT
@HWI-EAS443:3:38:1195:1092#0/1
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+HWI-EAS443:3:38:1195:1092#0/1
a_b_^]a_a__`a^a`^^a___a`___Z_THIVZ[YX^_^
@HWI-EAS443:3:38:1201:935#0/1
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+HWI-EAS443:3:38:1201:935#0/1
a`OYaaabaaa[Qa`ba`aY`b_]ab_Yb¥X[YW_]aa`R
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+HWI-EAS443:3:38:1287:169#0/1
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+HWI-EAS443:3:38:1310:1334#0/1
aa`_]bM`¥`b_Y]_^bR_T_`a`]__YaQ¥^`]Y_[ZSM
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+HWI-EAS443:3:38:1352:933#0/1
`abaabbbab¥a^`]a[aaaa`aa`a`VW]Y__U`__G
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+HWI-EAS443:3:38:1451:357#0/1
aa`aaa`aaX`_aba_`^`]`Z¥HSY_]X¥^¥0¥^^YT
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+HWI-EAS443:3:38:1478:1762#0/1
aI[abaaU]`YYYU_a__aQ_S`]SYY¥XIMNYHKHUYSH
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+HWI-EAS443:3:38:1502:1500#0/1
`_baaa^a^a^¥_a_aaaaa`a`_`a`a^`_]T^__Y^`
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+HWI-EAS443:3:38:1545:1920#0/1
a_a`a^0^aa_ZXZ`STW_^`Z]BBBBBBBBBBBBBBBB
@HWI-EAS443:3:38:154:267#0/1
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+HWI-EAS443:3:38:154:267#0/1
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+HWI-EAS443:3:38:1552:1641#0/1
`]`aaaaa^`]`__^_a`a`__^^^^^aWVW]]]S_^VU
@HWI-EAS443:3:38:162:969#0/1
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+HWI-EAS443:3:38:162:969#0/1
abbaaabbaaaaaaaaaaaaa`aaa_Z]]``¥_____`
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+HWI-EAS443:3:38:1637:983#0/1
_]babba`bbb^aab_baa`ba`_aaa_a]R]Y_`¥`^_^
@HWI-EAS443:3:38:1638:1223#0/1
GCTTTATTGAGAAGTTATTGTCTGTCCCAGTCCATCCGTT
+HWI-EAS443:3:38:1638:1223#0/1
aabbbabbb`b^^a`aaaa^`aBBBBBBBBBBBBBBBB
@HWI-EAS443:3:38:165:786#0/1
TTGGAATGTTTGTCAATTTAGCAAGGCCCTTGAGTCAAGA
+HWI-EAS443:3:38:165:786#0/1
aaaaaaaa^[aaa_`]aa¥]_a_S__a`a`]`_¥_T[`¥¥]
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+HWI-EAS443:3:38:1716:1127#0/1
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@HWI-EAS443:3:38:1763:1592#0/1
GAGGAATTGCCCGCTAATTTACGGAAACCACTGACTGTC
+HWI-EAS443:3:38:1763:1592#0/1
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@HWI-EAS443:3:38:183:1361#0/1
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+HWI-EAS443:3:38:183:1361#0/1
^]aa_aa`a_a`]`^aa`^aa___a`]`T^_`^V_ZXX]_S
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CAGTCAGTGGTTTCCGTGAAATTAGCGGGCAATTCCTCTC
+HWI-EAS443:3:38:188:1685#0/1
aX^`^ba]PXaU`_`^a`[^`]^`aZaYaVRHIZ¥Z¥^Z^V^V
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GAACCTTCTTCTTGACTCAAGGGCCTTGCTAAATGACAA
+HWI-EAS443:3:38:21:992#0/1
]`_abbabaab_abXa_`^a_aabaa]]]aVV]^aa`aa`
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+HWI-EAS443:3:38:230:15#0/1
]baaaaaa[a^W_XR[^`[XHXNZXXRZSUNFQRSPSVUW]
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+HWI-EAS443:3:38:233:943#0/1
a^a`[G¥__W_a_]aX]Za_X¥Z][`a`^UN^PY[[ZQ¥[
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+HWI-EAS443:3:38:242:1902#0/1
a`a`^`a`b`aaaa`[^`a¥[__`^a^V^R_]`^`R^_
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+HWI-EAS443:3:38:310:1781#0/1
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+HWI-EAS443:3:38:342:1561#0/1
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+HWI-EAS443:3:38:344:202#0/1
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+HWI-EAS443:3:38:416:1870#0/1
a¥¥`aba^Laa_WQH_]_P¥[HV`Z[Z[]_¥^_Y`Z_TID
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+HWI-EAS443:3:38:457:906#0/1
a`aa_`^`_b`a`_`¥VFYW¥Y¥aa_VSJW]^ZW^^_[Z^Q

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^b`_ba`aabbabbbaababaaaabaaba^`^¥_a_b^
@HWI-EAS443:3:38:530:1773#0/1
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+HWI-EAS443:3:38:530:1773#0/1
ZW_aabbbbaababbaababaaa^¥_bV^`a`^ZX]U
@HWI-EAS443:3:38:645:136#0/1
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+HWI-EAS443:3:38:645:136#0/1
a`aX`Z_____¥SVZa`aPUUZW[XWY_]ZRQVTUXWXT¥Z
@HWI-EAS443:3:38:64:1338#0/1
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+HWI-EAS443:3:38:64:1338#0/1
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+HWI-EAS443:3:38:700:1988#0/1
abbbb_abb`]Uaaaaba]ab__][a_a^Y0__a_¥`_^
@HWI-EAS443:3:38:793:707#0/1
GAAATTCCAATTGTTAGCCAATTGATGCCATCATGACAAG
+HWI-EAS443:3:38:793:707#0/1
`^^¥^bb^SV_WXY_bWbbaU_R^P_¥`[_^^`^^¥ZX[
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CAGTCGCTTGGTCAGCAAGTGCTTGTTCATGATGGCATCAA
+HWI-EAS443:3:38:840:971#0/1
a`a`aaba`a¥_``_Y_^`a^a`_a_^WU^[YY]ZUYZ
@HWI-EAS443:3:38:853:768#0/1
GATACTGGACCACAACCTGCCTGTCTTATCATTAGGGCGTG
+HWI-EAS443:3:38:853:768#0/1
a^``aaaa]`[`¥^]`^]P_`_¥]aZ[[^]ZKV^[N
@HWI-EAS443:3:38:861:894#0/1
ACCACAACCTGCCTGTCTTATCATTAGGGCGTGGATTGTCT
+HWI-EAS443:3:38:861:894#0/1
aaa`a``aa```_]aa`__a``_a^X^a]Y^Y]^X]X
@HWI-EAS443:3:38:905:1654#0/1
CTAATTATCACTATGAGGAATGCTCCTGTTATCCTGATTC
+HWI-EAS443:3:38:905:1654#0/1
a`__aaaa¥]_]`[_a`_aa__b_¥`_`[XU^^[]]^W[U
@HWI-EAS443:3:39:109:865#0/1
CGCTTGGTCAGCAAGTGCTTGTTCATGATGGCATCAATTGG
+HWI-EAS443:3:39:109:865#0/1
aaa__aaH`[]_P]_Sa`]^]Y`__^_T^]`^Y_¥Y[]YV
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AAGAGTCTGAATGTGCATGTGTAATGGTTCTTGCTTAC
+HWI-EAS443:3:39:1103:1994#0/1
`bba_U`b`b]a_abb]^[]`aaaa__YaYX[^aY`^_N
@HWI-EAS443:3:39:1114:1595#0/1
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+HWI-EAS443:3:39:1114:1595#0/1
_Z^a`]^_Xb]]`_`¥_XZ`^Z[WY`Y^[]_^^`_]^N
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+HWI-EAS443:3:39:1116:40#0/1
W_[_aU_ba^S¥[ba`¥QY[`a¥IQ_UXaZUY¥SBBBBBB
@HWI-EAS443:3:39:1138:1959#0/1
CACAACTGCCTGTCTTATCATTAGGGCGTGGATTGTCTCC
+HWI-EAS443:3:39:1138:1959#0/1
Zabbb`¥a^aa`)][_^V^`aaa```]RX[_`^¥QS]]T
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+HWI-EAS443:3:39:1167:65#0/1
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@HWI-EAS443:3:39:1186:699#0/1
GTCAGTCGCTTGGTCAGCAAGTGTGTCATGATGGCATC
+HWI-EAS443:3:39:1186:699#0/1
`aa^a]_¥^^_¥XD^]_VY]OW[UW[LO¥OVSZTYWVJXU
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+HWI-EAS443:3:39:1219:338#0/1
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+HWI-EAS443:3:39:1245:1476#0/1
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@HWI-EAS443:3:39:1264:171#0/1
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+HWI-EAS443:3:39:1264:171#0/1
ab`[^_babaa^`a¥`b``XL_a_Wa`b]baR`_`aa][W
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+HWI-EAS443:3:39:1286:686#0/1
]]Ta^PY¥TV`V`¥0¥]X`]V]XUJT]^`^ZWZ^^Z_^`H
@HWI-EAS443:3:39:1302:1276#0/1
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+HWI-EAS443:3:39:1302:1276#0/1
a¥U_baabaa`abaaaaaa`a__`]Z`a```]]^`__]^Y
@HWI-EAS443:3:39:1306:76#0/1
ATTAGACGATACTGGACCACAACCTGCCTGTCTTATCATT
+HWI-EAS443:3:39:1306:76#0/1
aaba]T¥`Y_]LU]^]]a_¥VWLW[YMVXZR^][USSVVV
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GGGAACTAAAAGCATTAGTTCAAGAAACGGTTTTGAGAT
+HWI-EAS443:3:39:1424:1660#0/1
aSMa]^```¥aaWaa^`a^U`__a`__a_SS_]_¥_RR

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+HWI-EAS443:3:39:1453:1524#0/1
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@HWI-EAS443:3:39:1497:981#0/1
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+HWI-EAS443:3:39:1497:981#0/1
aaa_^VT^QS]¥VU_SLLVRN`RUU_V_^UBBBBBBBBBB
@HWI-EAS443:3:39:1562:110#0/1
CGAAAATCCCACTGCATATGTATCCTATCTGATATTCCAG
+HWI-EAS443:3:39:1562:110#0/1
_ababbb`_babbbabbbabbaabab`bb[_aaaa^a]
@HWI-EAS443:3:39:1591:491#0/1
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+HWI-EAS443:3:39:1591:491#0/1
`¥^aaa`Ubaaa`__^[Waa]][^_¥^^^VYY_VP_]V
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+HWI-EAS443:3:39:1592:1700#0/1
aSbb`¥¥bX`ba]a_^_W`]V__KW[YRZ^XSZWR]B
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+HWI-EAS443:3:39:15:1082#0/1
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+HWI-EAS443:3:39:1626:638#0/1
a_a^][`_]V¥`[ZaaWQ¥¥P[[V^^^WW[ZXQUSUU
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+HWI-EAS443:3:39:1663:913#0/1
a[SYa_aa^`a_a]Z^aaa_[V`¥`_WZ]UYV]]a]]]_X
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+HWI-EAS443:3:39:1756:1221#0/1
abbb_`Sababba`bbbabaaa_ab_aabaV_`^`_`Z
@HWI-EAS443:3:39:405:1835#0/1
GACGATACTGGACCACAACCTGCCTGTCTTATCATTAGGGC
+HWI-EAS443:3:39:405:1835#0/1
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CTTGGGAATCAAATCAGATTGAAACATGCAATCAAAGCG
+HWI-EAS443:3:39:439:1593#0/1
a`]YWX^YS`_WZY_Y`^`^`a`_`aa[[`a__a[]]¥_
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CAGACACTATCAAGAGTTGGAGAAACAATATATTGAGAAC
+HWI-EAS443:3:39:440:708#0/1
a^`^`_a`Z_a`Z`a^aaaa`a]XaZU_aa_a_]``[Y
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ACCGTGGGTGTCTTTCAACCAGAATCTGGAATATCAGATA

+HWI-EAS443:3:39:594:753#0/1
`]ab¥^aa¥a¥aaa_aa`_a[¥XY^_a^TW]^`V^^]X
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+HWI-EAS443:3:39:607:1482#0/1
U^_`Y¥ab[V_abaabab`^[WN]V_]````a__aa]YL[
@HWI-EAS443:3:39:60:1657#0/1
CTAAAAGCATTAGTTCAAGAAACGGTTTTGAGATGATTG
+HWI-EAS443:3:39:60:1657#0/1
aaab```aaa_]`Y_a¥`^_aa`]N_¥V¥¥^Z^[U__^U
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+HWI-EAS443:3:39:612:69#0/1
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abaabaaaab`a_b^a`a^_¥[````^aa_YX_]^__U_Y
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+HWI-EAS443:3:39:687:1360#0/1
aa^]aaa__aaaaXaaaaaaa]aaaaaaaa__`__`^_¥
@HWI-EAS443:3:39:752:805#0/1
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+HWI-EAS443:3:39:752:805#0/1
aWwJa¥KX`aa`_aaaa[Xaa^U]^__a^¥_aaa_```
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TGTTATTATGCCGTTGTACTTTAACACAGCCACTGCCCA
+HWI-EAS443:3:39:756:1154#0/1
aa_aaaaa`^`__]_`_]_````^¥W`Z`YWY[WU_]Y
@HWI-EAS443:3:39:768:255#0/1
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+HWI-EAS443:3:39:768:255#0/1
aabb_aabbaaa`aaaa`ZZ¥aaa`^^aZ[_]``^X¥
@HWI-EAS443:3:39:82:769#0/1
GGGAGTTTTGTTTCAGCATCCAGAACTAACAGGGCTGGATT
+HWI-EAS443:3:39:82:769#0/1
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ACTGGACCACAACCTGCCTGTCTTATCATTAGGGCGTGGAT
+HWI-EAS443:3:39:881:690#0/1
`OZ__]_] [LUWW_W`U^V]__`^¥`UPZ[YRNX[Q^ZYQ
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+HWI-EAS443:3:39:914:1632#0/1
```bbabbbababbbbab`abb]^`ab`aWZabaa`^^  
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+HWI-EAS443:3:39:92:345#0/1  
a^aa]\_a`^a^aa`V^\_Za\_`` [T`U¥¥]^`ZTY`Y`^R[



@HWI-EAS443:3:3:104:682#0/1  
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+HWI-EAS443:3:3:104:682#0/1  
ab`ba\_ab``aaaa[aa`b`¥aa`\_]aWaw¥\_\_^`\_\_¥\_`  
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CTTGAGTCAAGAAGAAGTTCTGCATTCCAAGGGGGAGCA  
+HWI-EAS443:3:3:112:1256#0/1  
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+HWI-EAS443:3:3:1133:855#0/1  
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+HWI-EAS443:3:3:1167:1861#0/1  
a`a`abb\_aaab`\_abSbbaba^bbbbb`¥bababbaab]  
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+HWI-EAS443:3:3:1169:189#0/1  
aaaabaaaa`a`a\_¥aa^a\_\_`\_]\_```Z\_\_YZ`^]Z]]  
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+HWI-EAS443:3:3:1172:59#0/1  
aWZ\_a\_\_`\_`\_`W\_a\_YaQ^]\_\_W^UU¥YYWWWYUWYWWB  
@HWI-EAS443:3:3:1173:1027#0/1  
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+HWI-EAS443:3:3:1173:1027#0/1  
\_b`T\_a]\_aXaaVaa^^`]U¥aa`^\_aaTP\_N]aQU\_Z\_B  
@HWI-EAS443:3:3:1199:320#0/1  
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+HWI-EAS443:3:3:1199:320#0/1  
ab^abaa]Xa`abY]]`````a[V[aY]S]`P^a`YMYU  
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+HWI-EAS443:3:3:1282:102#0/1  
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+HWI-EAS443:3:3:128:1888#0/1  
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@HWI-EAS443:3:3:1303:210#0/1  
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¥bbabbbb`b`\_ba¥bbabababaaa`abaab^a`aa`Ga  
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+HWI-EAS443:3:3:1396:19#0/1  
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aaaaaaaaababb`a`a\_aaa^a\_a\_a`a^a\_\_^a`a^a\_  
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+HWI-EAS443:3:3:1602:1027#0/1  
a`bababbbaaa^^a\_\_a``\_¥aa\_\_aa[W^`\_¥YXWZB  
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+HWI-EAS443:3:3:167:496#0/1  
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+HWI-EAS443:3:3:1728:1327#0/1  
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+HWI-EAS443:3:3:243:1306#0/1  
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+HWI-EAS443:3:3:356:42#0/1  
`b^T\_`b[bbX][QaaVaa\_``aaaaaaaaV`\_\_`¥¥^¥a\_  
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+HWI-EAS443:3:3:421:1612#0/1  
aba\_^`\_Y\_abaaab\_b`a`\_aaaY`]^]X`X\_[aZaaa`  
@HWI-EAS443:3:3:459:793#0/1  
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+HWI-EAS443:3:3:459:793#0/1  
T¥``bb`XTYb]TNaWa`\_^ab`PP¥]`aaRX\_a`^`S]b  
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+HWI-EAS443:3:3:507:111#0/1  
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+HWI-EAS443:3:3:520:1901#0/1  
a¥aaa`a\_abb`aaaa^b`aa\_]aaa`\_aa`a\_b`aQW¥^  
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+HWI-EAS443:3:3:543:1001#0/1  
aaaaaaaa`aaaa`aa`\_]a^`]\_a\_\_^a`\_[a\_`^YPZ]  
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+HWI-EAS443:3:3:591:1131#0/1  
aaa`a`\_\_a`aaa\_a^aa\_\_a]a\_aWaRU^[^\_WUU\_¥Z

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+HWI-EAS443:3:3:711:1879#0/1  
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+HWI-EAS443:3:3:734:872#0/1  
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+HWI-EAS443:3:3:751:476#0/1  
abb]b\_aU`UT`HZ`XaaNZbb`baa`ba\_bb`bb`a\_  
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+HWI-EAS443:3:3:788:79#0/1  
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+HWI-EAS443:3:3:799:360#0/1  
a\_abRZWU`¥`\_aaaa^`\_\_S]aTVZ\_]\_\_\_S[^^\_a  
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+HWI-EAS443:3:3:895:289#0/1  
¥^^Z^`\_\_X\_\_`V\_RPaWaa^UZ[^^`a^aW`a¥PPY^B  
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+HWI-EAS443:3:3:921:756#0/1  
ab\_aaaaaba¥\_a\_a`\_aaZ^`a`¥`a`\_Z¥\_\_`a\_Z^V  
@HWI-EAS443:3:3:970:1488#0/1  
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+HWI-EAS443:3:3:970:1488#0/1  
abaM[`UaWP[`ab`T¥L`ab`aa`SbUY`aLaZ^K\_`¥  
@HWI-EAS443:3:3:981:1669#0/1  
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+HWI-EAS443:3:3:981:1669#0/1  
``[b¥X¥Q\_a`\_`a`G`QM[^aQUXX\_[Y]XXRVGNUBB  
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`[XaZNZbaa\_Y`N¥a\_[]Ta[`V`V]VSURRU]Q[SVQ  
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+HWI-EAS443:3:40:1039:1559#0/1  
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+HWI-EAS443:3:40:1140:744#0/1  
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+HWI-EAS443:3:40:1250:1002#0/1  
^\_a¥bbb\_[\_aaab`RXXX]¥\_^X`\_`aa`]X]Q^`^Z\_\_  
@HWI-EAS443:3:40:1324:1160#0/1  
CACAACTGCCTGTCTTATCATTAGGGCGTGGATTGTCTCC  
+HWI-EAS443:3:40:1324:1160#0/1  
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@HWI-EAS443:3:40:1442:79#0/1  
TGTAACAGTGACACTGTGGGTTGGTCTTGCCAGACGGT  
+HWI-EAS443:3:40:1442:79#0/1  
\_`VZ^FL\_^P^WY¥^[\_RX]^PUX¥LY[RXBBBBBBBBBB  
@HWI-EAS443:3:40:1468:1916#0/1  
TTGGAATGCAGAACCTTCTTCTTGACTCAAGGGCCTTGC  
+HWI-EAS443:3:40:1468:1916#0/1  
a`a\_aa¥\_`^¥\_\_\_V]]¥]V]¥\_]U]UY`a]ZU^]\_]VZ\_W  
@HWI-EAS443:3:40:1492:1135#0/1  
TCCCAGTCCATCCGTTCCGATCCCAAATCATCTCAAACC  
+HWI-EAS443:3:40:1492:1135#0/1  
a``]aaX[U`¥]SRX\_]X[[]VJQVIV`¥¥WY]ZYPY]S  
@HWI-EAS443:3:40:1590:1848#0/1  
CGGGAGTTTTGTTTCAGCATCCAGAACTAACAGGGCTGGAT  
+HWI-EAS443:3:40:1590:1848#0/1  
Sa¥]¥Z[[¥¥bbbab\_a\_```]\_aaaRab\_\_¥``b\_bbbaa  
@HWI-EAS443:3:40:1594:1167#0/1  
AGCGGGAGTTTTGTTTCAGCATCCAGAACTAACAGGGCTGG  
+HWI-EAS443:3:40:1594:1167#0/1  
`^abb``a\_a`aW0\_X` `[V^a^a]NRV¥a]]Zaa]]`a]  
@HWI-EAS443:3:40:1645:1504#0/1  
AATACGGCAATGGTGTGGATAGGGAGAACTAAAAGCAT  
+HWI-EAS443:3:40:1645:1504#0/1  
^\_IY`aa¥W^^V`¥VX^]]YQ[YYQJG]KS[^TX¥][MUQ  
@HWI-EAS443:3:40:1659:896#0/1  
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+HWI-EAS443:3:40:1659:896#0/1  
a`aba`a`baaaa\_[\_R\_[a`WU¥Y\_]\_\_¥¥NT[\_ZBBBB  
@HWI-EAS443:3:40:1710:362#0/1  
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+HWI-EAS443:3:40:1710:362#0/1  
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@HWI-EAS443:3:40:1715:1543#0/1  
GGCTCCTGTCTTTAATGGTTCCATTGGAATGTTTGTCTT  
+HWI-EAS443:3:40:1715:1543#0/1  
`Ybaaa^¥TQZa`Y¥]aa`aa]V¥\_XXTV¥UY\_ZUZR¥\_  
@HWI-EAS443:3:40:1758:306#0/1  
ATCAAGAGTTGGAGAAACAATATATTGAGAACACAAGAGT  
+HWI-EAS443:3:40:1758:306#0/1  
aaa^`b`^^aaaaa]W^a```\_a\_\_^[^]Y^\_a`T¥`aW  
@HWI-EAS443:3:40:1774:261#0/1  
TGGGTGTCTTTCAACCAGAATCTGGAATATCAGATAGGAT  
+HWI-EAS443:3:40:1774:261#0/1  
abba]a]S^a\_¥\_`]¥\_a\_\_\_]a`]]][\_\_^]a^`\_\_\_\_^\_Z

@HWI-EAS443:3:40:211:675#0/1  
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+HWI-EAS443:3:40:211:675#0/1  
a\_X]`aaaaa`aa\_`a`SXa\_]`\_]\_^\_^^[^\_UHPX^[]\_  
@HWI-EAS443:3:40:238:404#0/1  
ATCAAAGCGTCATTACTTATGAAAACAACACTTGGGTAAA  
+HWI-EAS443:3:40:238:404#0/1  
abbbY\_ST`XXPP`L\_TM\_``ZSTXROW`a\_Z\_]TTN]¥`  
@HWI-EAS443:3:40:267:2029#0/1  
CAAAACCGTTTCTTGAACATAATGCTTTTAGTTCTCCCTAT  
+HWI-EAS443:3:40:267:2029#0/1  
abaabba\_^aaa``\_a`\_aaa\_`^\_\_ZZDZ]\_``\_`¥\_`]  
@HWI-EAS443:3:40:322:1829#0/1  
AACAGACACTATCAAGAGTTGGAGAAACAATATATTGAGA  
+HWI-EAS443:3:40:322:1829#0/1  
abaa]aaaaaa``aa\_\_`[\_]a`¥K\_X`\_`\_^^\_]`\_\_  
@HWI-EAS443:3:40:37:843#0/1  
CGGCAATGGTGTGGATAGGGAGAACTAAAAGCATTAGT  
+HWI-EAS443:3:40:37:843#0/1  
Y[¥]G[]`ZM^¥¥a¥\_`^Y¥YXXVXV\_¥ZTIVU¥]U¥Z¥RM  
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CACTGCATATGTATCCTATCTGATATTCCAGATTCTGGTT  
+HWI-EAS443:3:40:409:314#0/1  
V`b]`abbbbaZbbbbbbbaabaYba\_\_^`]^^`a]a  
@HWI-EAS443:3:40:527:310#0/1  
AGCCCATCCACTAACAGGGCAGAGAGGAATTGCCCGCT  
+HWI-EAS443:3:40:527:310#0/1  
`R\_aaa^`a`aaa^a\_a`aa[aV\_¥\_Q\_YY[LFH]\_¥`]U  
@HWI-EAS443:3:40:551:53#0/1  
GGTTGGTCTTGCCAGACGGTGCTGAGTTGCCATTTACCA  
+HWI-EAS443:3:40:551:53#0/1  
`YMQ`^¥\_\_`a\_`UZ\_P^¥WDV]WWWXTYU[TTZWXRYZ  
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CGTGGGTGTCTTTCAACCAGAATCTGGAATATCAGATAGG  
+HWI-EAS443:3:40:569:747#0/1  
aa\_\_bb\_b`abbbba`babba[`aaa^aa`aaaaaaZ``a  
@HWI-EAS443:3:40:642:967#0/1  
ACTGTTTACACCACAAAAGGATATGCTGCTCCCGCTAGTC  
+HWI-EAS443:3:40:642:967#0/1  
L¥abY\_a¥a^XT[a`\_WZ]]ZZ\_``\_V`\_^]Y][YSUOJZ  
@HWI-EAS443:3:40:645:1640#0/1  
TGCATGTGTAATGGTTCTTGCTTTACTGTAATGACCGAT  
+HWI-EAS443:3:40:645:1640#0/1  
aaaaaa`b^baaaaa]aaa`a`aaa\_a\_\_\_\_aa``aaaa\_\_  
@HWI-EAS443:3:40:661:384#0/1  
CCCCTAATTTACGGAAACCACTGACTGTCCAGCAGCAA  
+HWI-EAS443:3:40:661:384#0/1  
aaaaabbabaaa\_a\_\_`a\_\_\_\_`a\_¥¥`¥^Y\_UW^JW^R  
@HWI-EAS443:3:40:687:82#0/1  
CGCTTGGTCAGCAAGTGCTTGTCATGATGGCATCAATTGG

+HWI-EAS443:3:40:687:82#0/1  
aabbbbbaaaabbaab\_bbaa`aa\_a]GZ^^`aaPZa``  
@HWI-EAS443:3:40:735:1207#0/1  
CTTGAGTCAAGAAGAAGTTCTGCATTCCAAGGGGAGCA  
+HWI-EAS443:3:40:735:1207#0/1  
ab`\_[\_aba`bbba`aaX`babbba\_bbb^`aaa\_bbb  
@HWI-EAS443:3:40:745:337#0/1  
AACAAAACCTCCCGCTATATCCTGACCACTCATTTATTCCT  
+HWI-EAS443:3:40:745:337#0/1  
aaaaaaaa\_a```\_`aa`\_]`\_]QH[Z\_^`^`[]`\_¥  
@HWI-EAS443:3:40:796:1288#0/1  
GTCTGAATGTGCATGTGTAAATGGTTCTTGCTTTACTGTA  
+HWI-EAS443:3:40:796:1288#0/1  
a\_aaaa\_\_^`\_`aY¥aX¥U`\_]`[]^X^Y^X¥^ZZS\_  
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ATAAGACCTTGCTTCTGGGTTGAACTAATCAGAGGGCGAC  
+HWI-EAS443:3:40:799:835#0/1  
aaa[X\_a``````aab`^][`[G\_U`G`X^^\_V]Va^PV  
@HWI-EAS443:3:40:882:340#0/1  
GGGGCCTTGCTAAATGACAAACATTCCAATGGAACCATTA  
+HWI-EAS443:3:40:882:340#0/1  
a``Z¥¥]`a\_[] [¥]\_`¥T[YSY\_[HV¥\_VU¥¥ZVR[  
@HWI-EAS443:3:40:888:796#0/1  
CAAGAGTCTGAATGTGCATGTGTAAATGGTTCTTGCTTTA  
+HWI-EAS443:3:40:888:796#0/1  
\_V\_aab¥`ab\_^`b]b\_^aa`a]`^`a\_V^`a]\_\_¥¥Y\_  
@HWI-EAS443:3:40:921:315#0/1  
CGCTAATTTACGGAACCCTGACTGTCCAGCAGCAAAG  
+HWI-EAS443:3:40:921:315#0/1  
abbbb]babbaababb^ba\_aaaa^`aaY\_UI¥a``V\_  
@HWI-EAS443:3:42:104:41#0/1  
GACATATGTTAACATCAGCAACACCACTTTGCTGCTGGA  
+HWI-EAS443:3:42:104:41#0/1  
`Ua``\_]\_aaa`^Y[]\_]`^a``a`^¥T¥`\_] [¥]aa]^VW  
@HWI-EAS443:3:42:1108:1516#0/1  
CCCCTAATTATCACTATGAGGAATGCTCCTGTTATCCTGA  
+HWI-EAS443:3:42:1108:1516#0/1  
abbabbbbababaaaaab`]abaaaaaaa`aa`aa`\_  
@HWI-EAS443:3:42:123:300#0/1  
GTCAGCAAGTGCTTGTGCATGATGGCATCAATTGGCTAACA  
+HWI-EAS443:3:42:123:300#0/1  
a^b``aYa\_`aa`aaYa\_\_¥S\_a\_a\_a`]^`^`^`V`^`  
@HWI-EAS443:3:42:1256:1061#0/1  
GACCGTGGGTGTCTTTCAACCAGAATCTGGAATATCAGAT  
+HWI-EAS443:3:42:1256:1061#0/1  
``a``T^`\_[a][`\_^`\_`ZVZ¥[\_`\_]`a^^`^`\_`][¥  
@HWI-EAS443:3:42:1265:567#0/1  
ACCGTTTCTTGAACCTAATGCTTTTAGTTCTCCCTATCCAA  
+HWI-EAS443:3:42:1265:567#0/1  
`[`aX`aaa``\_a]`\_\_\_aZ`aa`\_a^^]\_]`\_`]]`]

@HWI-EAS443:3:42:1277:68#0/1  
TGGGCTCCTGTCTTTAATGGTTCATTGGAATGTTTGTCA  
+HWI-EAS443:3:42:1277:68#0/1  
H\_W¥VV`baTTa^VR¥bbbZ¥WUaU`\_WS¥Zb¥]`aRWP  
@HWI-EAS443:3:42:1333:1124#0/1  
GTTCTGCATTCCAAGGGGAGCATGATATGAATGGTTCCC  
+HWI-EAS443:3:42:1333:1124#0/1  
aZX\_bba\_`\_baabbbbba[a`babbaabaa`aa`[aa`^  
@HWI-EAS443:3:42:1344:1433#0/1  
GAACTTCACCAATAGGACAGCTCATTAGGGTTCGATATGG  
+HWI-EAS443:3:42:1344:1433#0/1  
`a¥YZaaaa`b`aa\_U]¥aa[\_ZTbaaaa]¥``\_a\_a^]Y  
@HWI-EAS443:3:42:1407:728#0/1  
CCCTTTTCTATTCTGAAGATCTTGTATGAGGCCTGTCCAT  
+HWI-EAS443:3:42:1407:728#0/1  
ababbbbbbbbbbbba`bbabbaabbbbbbb]bb`abba  
@HWI-EAS443:3:42:1445:1177#0/1  
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+HWI-EAS443:3:42:1445:1177#0/1  
]bab`b\_bbbabUbbbZa^aaaa\_a^baaU\_aNR]\_¥NXS  
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CAGACACTATCAAGAGTTGGAGAAACAATATATTGAGAAC  
+HWI-EAS443:3:42:1452:977#0/1  
¥`ba`^b`Y`\_a^a\_¥X\_bbbbb^MaVbaaa`ab¥bb  
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GACAGGCCTCATACAAGATCTTCAGAATAGAAAAGGGAAA  
+HWI-EAS443:3:42:1463:1262#0/1  
[H]VL]]U¥\_a^WYLRST^TaZ[]TYX]¥BBBBBBBBBBB  
@HWI-EAS443:3:42:1522:645#0/1  
ATGGTGTGGATAGGGAGAACTAAAAGCATTAGTTCAAG  
+HWI-EAS443:3:42:1522:645#0/1  
abbbababbbb`aabba`^`b\_`]]`b\_`aa`]¥`\_`a  
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TCCCAGTCCATCCGTTCCGATCCCAAATCATCTCAAAACC  
+HWI-EAS443:3:42:1560:504#0/1  
[aaa\_W`]]`[\_X¥I`NR]^OSST]^YY^a^Y¥Y^][¥`S  
@HWI-EAS443:3:42:1596:945#0/1  
GGGAGCAGCATATCCTTTTGTGGTGTAACAGTGACTG  
+HWI-EAS443:3:42:1596:945#0/1  
a``]]]Waa]aaa\_¥Ya]\_`^aa[`^]V`\_\_`Z¥Y[]¥¥]  
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GAAATTCCAATTGTTAGCCAATTGATGCCATCATGACAAG  
+HWI-EAS443:3:42:1626:1271#0/1  
Y[bba\_bbbbaab¥abaaaba\_aaaaaaaaa^a\_`aWaa\_  
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+HWI-EAS443:3:42:1627:702#0/1  
a`abaabaa`aa`^`a`a`^`\_\_`\_\_a`\_YUTZU]ZW[X  
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+HWI-EAS443:3:42:1678:1534#0/1  
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TCCCGTCCATCCGTTCCGATCCCAAATCATCTCAAACC  
+HWI-EAS443:3:42:1683:1507#0/1  
aaaW\_aaa`ba`\_\_]I]X¥^YYY]a\_\_\_\_[\_^X¥RT`\_\_¥Q  
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GCCCCTAATTATCACTATGAGGAATGCTCCTGTTATCCTG  
+HWI-EAS443:3:42:1703:1869#0/1  
aaa`¥bbaaaaaa[aa`^a`[b`\_Z\_aZa`\_\_`\_¥``\_  
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+HWI-EAS443:3:42:1724:1635#0/1  
`^YaaUaW]S^YZWYZ^Z[]Y]YZa\_]TOV^Z]X[SZ^V  
@HWI-EAS443:3:42:1728:498#0/1  
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+HWI-EAS443:3:42:1728:498#0/1  
aaaaaaa\_`ab``aba\_a`aZU\_¥]`^`\_Y[`\_Za\_QWW  
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CAACCAGAATCTGGAATATCAGATAGGATACATATGCAGT  
+HWI-EAS443:3:42:1738:848#0/1  
ab[¥R`aZ\_¥Q`aaa]aaa\_``\_\_¥\_Ua¥FZ`\_`\_T]¥Q  
@HWI-EAS443:3:42:1751:1437#0/1  
CAAATACGGCAATGGTGTGGATAGGGAGAACTAAAAGC  
+HWI-EAS443:3:42:1751:1437#0/1  
]Xba\_ba`aXbXbb`I`aaaY[baaabba\_Waa^\_b\_a]U  
@HWI-EAS443:3:42:1759:654#0/1  
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+HWI-EAS443:3:42:1759:654#0/1  
XU`V`b¥`LbV0[S[D]aZQ]^P\_a^]ZHGYUQFKY`a\_N  
@HWI-EAS443:3:42:191:70#0/1  
GAATGCTCCTGTTATCCTGATTCTAGTAAATCACATGTG  
+HWI-EAS443:3:42:191:70#0/1  
aaaaZ`a\_\_TX[a`ZT[\_ZT][YYXYZ¥P¥¥ZVSY\_¥]\_  
@HWI-EAS443:3:42:214:813#0/1  
GGTTCGATATGGGCTCCTGTCTTTAATGGTTCCATTGGAA  
+HWI-EAS443:3:42:214:813#0/1  
aaYaab`aaaaaaa\_a\_aa\_\_`aa``\_[a^\_a`\_a\_a]^  
@HWI-EAS443:3:42:242:1694#0/1  
GCCCCTAATTTACGGAAACCACTGACTGTCCAGCAGCA  
+HWI-EAS443:3:42:242:1694#0/1  
^bbbbbbabbbbabbbabbabba`\_a`][aba^ab`¥a]YY  
@HWI-EAS443:3:42:243:1620#0/1  
CAGCCCTGTTAGTTCTGGATGCTGAACAAAACCTCCCGCTA  
+HWI-EAS443:3:42:243:1620#0/1  
ab\_abba\_Z]`^X`¥¥ZTZNT¥\_]\_aaYba`XQaa]^\_^Z  
@HWI-EAS443:3:42:306:1289#0/1  
ATAAGACCTTGCTTCTGGTTGAACTAATCAGAGGGCGAC  
+HWI-EAS443:3:42:306:1289#0/1  
a`aaaaaaa`a`a\_]¥`Q¥`^aS`a`]^a`[\_[aa¥^[



@HWI-EAS443:3:42:397:1023#0/1  
GATATAGCGGGAGTTTTGTTTCAGCATCCAGAACTAACAGG  
+HWI-EAS443:3:42:397:1023#0/1  
\_T\_Zab`Za\_Z]]JT]^OWPT¥]Q`a¥]U[a`[^\_^\_ZZ  
@HWI-EAS443:3:42:397:1088#0/1  
CAAAACCGTTTTCTTGAACCTAATGCTTTTAGTTCTCCCTAT  
+HWI-EAS443:3:42:397:1088#0/1  
aaaa`aaa`a\_aaaa¥a]]`a`\_`\_aa`a]\_a`^aaa`a  
@HWI-EAS443:3:42:425:1785#0/1  
AGCGGGCAATTCCTCTCTCTGCCCTGTTAGTGGATGGGCT  
+HWI-EAS443:3:42:425:1785#0/1  
a\_baaabaaabbb¥Tabaaaaab`abab`a\_\_`aaa^`a[  
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CCTCTCCATACTCAAGATTTGAGTCAGTCGCTTGGTC  
+HWI-EAS443:3:42:42:1396#0/1  
abbababba^baaaabaaaaaa]aa\_aaaP`\_`\_¥0[WY  
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CTTTAACACAGCCACTGCCCATTTGTCTGGGCCAGAAATT  
+HWI-EAS443:3:42:467:704#0/1  
aba`¥`\_`\_bb`^WY^aaXST\_Z^^\_aZN^\_NYUXN¥W[V  
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CCCCTGCATATGTATCCTATCTGATATTCCAGATTCTGG  
+HWI-EAS443:3:42:46:1663#0/1  
^a\_\_\_\_\_]\_aa]TM]\_\_^^V]^`^\_] [¥`Y`\_0^¥`¥`^Z[  
@HWI-EAS443:3:42:502:1652#0/1  
GTCCCAGTCCATCCGTTCCGATCCCAAATCATCTCAAAAC  
+HWI-EAS443:3:42:502:1652#0/1  
a^`a^¥YUZ0\_T]U^UZ`V[UD[^\_XR[LWRSYJMLZ[]Z  
@HWI-EAS443:3:42:555:978#0/1  
CAGCAAGTGCTTGTCATGATGGCATCAATTGGCTAACAAAT  
+HWI-EAS443:3:42:555:978#0/1  
]P\_¥YV\_a[^\_HWXTT\_¥`a`[^\_b\_XZS\_\_ [¥Y\_0[¥U  
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ATCAAAGCGTCATTACTTATGAAAACAACCTTGGGTAAA  
+HWI-EAS443:3:42:571:216#0/1  
`b\_aa`a`aaaabb`aaa\_`^aaaaa` [ ` \_`U\_a^\_GVa`  
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ATTCATATCATGCTCCCCCTTGAATGCAGAACCTTCTTC  
+HWI-EAS443:3:42:594:1744#0/1  
aabbaa\_aaab\_aX`\_^0``a]¥\_aaaVb^`a^Ya] [\_VM  
@HWI-EAS443:3:42:647:940#0/1  
GTGTTTGGATAGGGAGAACTAAAAGCATTAGTTCAAGAAA  
+HWI-EAS443:3:42:647:940#0/1  
aR¥L¥XV¥[SVVMQQR¥`PZ\_P\_RWN[RGVTGP]ZLX][S  
@HWI-EAS443:3:42:661:1095#0/1  
CTCAAACCGTTTTCTTGAACCTAATGCTTTTAGTTCTCCCT  
+HWI-EAS443:3:42:661:1095#0/1  
Y` [\_a¥a`baW^`ba]\_`aaaaZa`^^^XZP]\_]Z``¥  
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TTCGGATCCCAAATCATCTCAAACCGTTTCTTGAACCTAA

+HWI-EAS443:3:42:673:724#0/1  
aaaaaaaaaaaaaa`a`a\_a¥````a^aa``\_`\_`^`\_`\_  
@HWI-EAS443:3:42:690:1756#0/1  
CGGATCCCAAATCATCTCAAACCGTTTCTTGAACATAATG  
+HWI-EAS443:3:42:690:1756#0/1  
a`bbabbbbbbbaab\_b`babbb`b`abaaaaa^abaaa  
@HWI-EAS443:3:42:695:769#0/1  
TAATAACAGACACTATCAAGAGTTGGAGAAACAATATATT  
+HWI-EAS443:3:42:695:769#0/1  
aaaa\_aaaaaa`aa`\_`\_`\_\_^a^aa`\_\_\_\_\_]\_\_`\_`V`\_  
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GTTTGGATAGGGAGAACTAAAAGCATTAGTTCAAGAAACG  
+HWI-EAS443:3:42:82:524#0/1  
a^a``ZN\_WW[[UXT`\_]`^^[Y`\_`[\_R`\_XZ[TV^Z¥YY[  
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CAACTGCCTGTCTTATCATTAGGGCGTGGATTGTCTCCGA  
+HWI-EAS443:3:42:848:764#0/1  
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+HWI-EAS443:3:42:914:398#0/1  
aabaabaabb`baaaaZ``\_aaaa\_aa^a`aa\_a\_a\_\_a  
@HWI-EAS443:3:42:953:969#0/1  
CATTATATCATGCTCCCCCTTGAATGCAGAACCTTCTT  
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^ab\_b¥bba\_a\_a`a[aa¥\_ab\_0[`bba``a\_\_]XaYb  
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+HWI-EAS443:3:43:1043:968#0/1  
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aaa\_b^aaa\_a^aaaa\_]\_aaa¥\_aa[aa\_]aUa`^[\_  
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+HWI-EAS443:3:43:1115:298#0/1  
aa]TUa\_]^^`a``\_¥`R``^[\_`aa\_a`a^aaZZVX``  
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+HWI-EAS443:3:43:1128:290#0/1  
aaaaaa`aaaa\_ba`a`aa`aa¥a`^a````\_`^^^aZ  
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+HWI-EAS443:3:43:1196:1304#0/1  
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ab^aabab^ba`ab`Z````ZPaaa`aa¥`\_`Z^VUa^\_  
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`¥V¥U¥`ababaa^Saaba`]aaWW\_`a[aa`a\_`\_aV¥a  
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+HWI-EAS443:3:43:1453:50#0/1  
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a^[\`Xaaaa`^a`V[aa\_[\`¥S`\_]S\_`SKRU\_[QFYNOR  
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+HWI-EAS443:3:43:1503:1431#0/1  
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a\_¥^T`ab^^`\_Z^V^W¥Z¥]ZX]ZVT¥¥]X]ZXTBBBBB  
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^b[¥V¥baJa¥aaaaab`^^``aaa`aa]^][Ya\_YU``  
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aaa\_]\_\_\_\_\_^^XZ\_W\_]\_\_^\_U^^^]U^UXZUV\_XXVZZ^  
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+HWI-EAS443:3:43:1723:1610#0/1  
\_aYa`aab`¥^\_aaba\_a`a]^`a``¥ZaWa\_a[\_]`\_`¥  
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+HWI-EAS443:3:43:1730:157#0/1  
aabab\_baWb\_Y`aa^\_\_`¥\_`\_^^`Y¥Z`^Z^]^`¥Z]Z  
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+HWI-EAS443:3:43:22:1423#0/1  
a`\_\_¥b`a`I\_b[VaV\_aaaaaa\_bb]aY¥\_b`aabab`a  
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+HWI-EAS443:3:43:249:245#0/1  
aa]]\_]aa`a``\_`\_`\_a¥`X`\_a\_a`^X^PX`\_\_[\_]`\_  
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aa^P\_aXaaa]VYa][aa\_\_aa\_[a\_¥QS`]R¥`Z`\_¥Z¥  
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+HWI-EAS443:3:43:384:1272#0/1  
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+HWI-EAS443:3:43:494:289#0/1  
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+HWI-EAS443:3:43:531:1409#0/1  
a`]^a`\_aaaa`a``aa¥P]]a`\_[a^a^a\_^YMT[WUW  
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a¥\_\_YR\_baaa`^^`aabaaa`b`aaaa`\_R]a^^XSX]S  
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aaaaa`aa`a`aaa`\_`\_`a`\_X¥`^\_\_`\_`[a``]\_`^P  
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+HWI-EAS443:3:43:792:120#0/1  
abWW]]][bS^[W¥aaaWV]Y`RZY]U^U¥VY^]\_\_^¥YS`  
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+HWI-EAS443:3:43:900:1192#0/1  
a`aT^a¥a\_a]¥`XZ[USV]^`\_\_]VS\_WZV^]^X^`X  
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+HWI-EAS443:3:43:943:96#0/1  
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+HWI-EAS443:3:44:100:1133#0/1  
a[^^`a\_S]^`^a\_aa`a`a[][\_`^[]Z¥`¥YS¥  
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+HWI-EAS443:3:44:1043:1023#0/1  
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aaaaa`^aaabbaaa\_a`aa\_\_\_a\_aa]¥`\_`a`a\_\_\_  
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+HWI-EAS443:3:44:108:1688#0/1  
aaVZZ]a¥0QZW\_\_RZZ¥X^\_W^¥UWR[\_VROX`]^a¥¥N  
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aaa`aaa`aab^a`a`a`\_a]\_`^`^`\_Za`\_\_\_\_\_])`\_Z  
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+HWI-EAS443:3:44:111:567#0/1  
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aa`aa^aa`a`aa`\_\_\_\_`a\_``a^`^]]a]Y`^]`^\_]  
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a^`a\_\_aa¥aP]\_\_[\_]YZ^`[]¥N]`ZW]]^][ZV`YY  
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CGCTTGGTCAGCAAGTGCTTGCATGATGGCATCAATTGG  
+HWI-EAS443:3:44:1186:1822#0/1  
aa^bbba^b`aaba`aba`\_a\_bba¥```aba`a\_  
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+HWI-EAS443:3:44:119:135#0/1  
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VJX^a\_OV]¥]Y[VZVWOSPYY[¥RTXZTZRP[TVVVR^V  
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+HWI-EAS443:3:44:1270:1651#0/1  
a^^`YT\_`Uaa\_[LYa\_\_aa]aWa`a\_a`a`\_`[W\_`\_`\_  
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+HWI-EAS443:3:44:1313:828#0/1  
aa^bababbbabaaaaaaaa`a`abbaaaaaaaaaabaa\_¥a  
@HWI-EAS443:3:44:1325:326#0/1  
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a`aaa\_a\_\_`^aaa`\_a`a^a\_`^^`a^a\_``\_`^a^\_\_  
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+HWI-EAS443:3:44:1403:994#0/1  
`b`Y^b``aba`¥¥`a`^aa`abaaaaa\_`a`aaaa`\_  
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+HWI-EAS443:3:44:1408:929#0/1  
a^a`J]\_a`QSaa^]¥RT\_VU]]\_\_\_\_^\_S^aXRxaPRU  
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+HWI-EAS443:3:44:140:1644#0/1  
^a`YYZ\_Y`\_aba]\_\_b`[a^\_`\_aab]T``\_¥\_X^][\_  
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+HWI-EAS443:3:44:1502:379#0/1  
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+HWI-EAS443:3:44:1600:1531#0/1  
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+HWI-EAS443:3:44:1665:1216#0/1  
aaa^U\_a¥0]aX[]\_aa]WZ\_`[[[]¥¥¥]WYa[``a^\_¥]  
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]¥DZ[S¥]ab[\_`\_QS[\_]^Wa^W[Y\_V\_P\_`[[ZMDVYS  
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+HWI-EAS443:3:44:1787:993#0/1  
`^^`\_`\_¥`Q¥V¥Z^]¥^^a^Y¥^a`¥aaaXF[]^¥Y\_`\_  
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+HWI-EAS443:3:44:189:1441#0/1  
aYO\_^b`^`^\_[aaa\_a\_aaa]UT¥`a`\_`W^ZYWQ[TOVU



@HWI-EAS443:3:44:196:1764#0/1  
ATTTCGAGCCATGCCAGTTATCCCTGCACACACATGTGATT  
+HWI-EAS443:3:44:196:1764#0/1  
\_aa\_a\_aa`a[`¥aWY]a^U[M[a`aaa\_XS^\_a[X¥\_\_  
@HWI-EAS443:3:44:201:422#0/1  
ACGGTTTTGAGATGATTTGGGATCCGAACGGATGGACTGG  
+HWI-EAS443:3:44:201:422#0/1  
aa\_\_Rabb\_\_a\_aaa`aaaT]R]]a¥[`] `]^`]ZX^\_]`  
@HWI-EAS443:3:44:20:1630#0/1  
AGCGGGAGCAGCATATCCTTTTGTGGTGTAAACAGTGACA  
+HWI-EAS443:3:44:20:1630#0/1  
a`ba]`aaaa[a`a^`\_`aba`PV¥\_Y``\_¥aW\_Z[^\_W\_  
@HWI-EAS443:3:44:244:230#0/1  
TAAGAATCGGTTCCAAGGGGATGTGTTTGCATAAGGGA  
+HWI-EAS443:3:44:244:230#0/1  
aaabbaa¥a`UU[]UKXX]\_XHI[OYL¥ZXYQOSSOWXYU  
@HWI-EAS443:3:44:24:783#0/1  
CAAATACGGCAATGGTGGTGGATAGGGAGAACTAAAAGC  
+HWI-EAS443:3:44:24:783#0/1  
aabbbbbbb`a¥R\_`N`]`aTUKV\_aaaI\_GUOW[aaaPT  
@HWI-EAS443:3:44:256:1825#0/1  
GGCTCCTGTCTTTAATGGTCCATTGGAATGTTTGCATT  
+HWI-EAS443:3:44:256:1825#0/1  
a\_``a\_^W\_\_aaaab`QL[\_Ia`]Y0[a[Y\_`aGZ[\_X\_  
@HWI-EAS443:3:44:274:1769#0/1  
TTCAAATACGGCAATGGTGGTGGATAGGGAGAACTAAAA  
+HWI-EAS443:3:44:274:1769#0/1  
a`¥^aaa¥XUT]\_`a^aX¥^aa\_[SX¥NZRV\_S\_W^^\_\_\_\_  
@HWI-EAS443:3:44:318:493#0/1  
GTGTAAATGGTCTTGCTTTACTGTAATGACCGATGGACC  
+HWI-EAS443:3:44:318:493#0/1  
a¥``aZRU]RNRWa\_VQX[¥¥\_¥`X][¥Z[U¥\_^YZ^VYW  
@HWI-EAS443:3:44:32:234#0/1  
TGATTTGGGATCCGAACGGATGGACTGGGACAGACAATAA  
+HWI-EAS443:3:44:32:234#0/1  
aa[aab``¥`^a`a\_\_]\_a\_\_\_\_]ZXX^\_YSTZZUU\_YYUT  
@HWI-EAS443:3:44:332:288#0/1  
CTTGGTCAGCAAGTGCTTGTGCATGATGGCATCAATTGGCT  
+HWI-EAS443:3:44:332:288#0/1  
a]NMYX\_SZ`ONYI[OLSV[\_\_\_\_`\_[¥JOSLZMKFTZ`WT  
@HWI-EAS443:3:44:404:1465#0/1  
CAGTAAAGCAAGAACCATTTACACATGCACATTCAGACTC  
+HWI-EAS443:3:44:404:1465#0/1  
Q]¥^a^a\_```baab``babbbbbb`babbbbaa\_¥\_aaH^W  
@HWI-EAS443:3:44:504:1078#0/1  
ATCGAACCTAATGAGCTGCCTATTGGTGAAGTCCCTC  
+HWI-EAS443:3:44:504:1078#0/1  
aaaaaa\_\_aa`a\_\_`aaaWa`\_[a`a`]`a\_\_X\_\_\_\_]^`  
@HWI-EAS443:3:44:565:1283#0/1  
ATGGCATCAATTGGCTAACAAATTGGAATTTCTGGCCCAGA

+HWI-EAS443:3:44:565:1283#0/1  
^X`WQa\_aTaaaa`^^`\_\_[a`aT^¥`\_Y\_X\_R\_V\_¥[[¥  
@HWI-EAS443:3:44:639:909#0/1  
CAAAATCAGATTGAAACATGCAATCAAAGCGTCATTACTT  
+HWI-EAS443:3:44:639:909#0/1  
¥bZ]`bbbaa¥a\_aZ`^baab\_ab`^b`¥`Jbab` `b`  
@HWI-EAS443:3:44:669:881#0/1  
GCTTGGTCAGCAAGTGCTTGTGCATGATGGCATCAATTGGC  
+HWI-EAS443:3:44:669:881#0/1  
aa`aaaZaa`a`Ya]`\_\_^aW^¥\_\_\_^`\_\_\_\_^R\_]\_^Y  
@HWI-EAS443:3:44:670:1933#0/1  
AACAGGGCAGAGAGGAATTGCCCGCTAATTCACGGAA  
+HWI-EAS443:3:44:670:1933#0/1  
aaaaa\_TY\_a\_b]^T`[`aa\_a`aU[a\_\_\_\_`[SYa^\_\_¥`  
@HWI-EAS443:3:44:692:1038#0/1  
CCGAACGGATGGACTGGGACAGACAATAACTTCTCAATAA  
+HWI-EAS443:3:44:692:1038#0/1  
`\_a`a\_a` `aaa\_Wa`aaa\_^\_Z\_a^`N`V`]`\_\_`¥  
@HWI-EAS443:3:44:697:1268#0/1  
ACTGCCTGTCTTATCATTAGGGCGTGGATTGTCTCCGAAA  
+HWI-EAS443:3:44:697:1268#0/1  
Vab^bbb`X` `bb\_[Z\_YaaU]\_^[]U^a`ULGZ\_\_YXX]  
@HWI-EAS443:3:44:751:1368#0/1  
ATTCAGACTCTTGTGTTCTCAATATATTGTTTCTCCA  
+HWI-EAS443:3:44:751:1368#0/1  
X[^`a`^^\_aaYSS¥YV¥`aab`aa`]^\_a\_VYUXVZ]  
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+HWI-EAS443:3:44:782:444#0/1  
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+HWI-EAS443:3:44:785:73#0/1  
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@HWI-EAS443:3:44:793:1065#0/1  
GAACTTCACCAATAGGACAGCTCATTAGGGTTCGATATGG  
+HWI-EAS443:3:44:793:1065#0/1  
`ab`aabaaaabaaa` `aaa\_a^\_aa\_a\_\_V^W¥\_\_a\_^\_  
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GTCAGTGGTTTCCGTGAAATTAGCGGGCAATTCCTCTCTC  
+HWI-EAS443:3:44:830:1181#0/1  
a]baa[aaWaaaa`¥a`\_aa` `Y`¥\_\_\_Za`¥U[\_\_\_¥\_¥  
@HWI-EAS443:3:44:897:115#0/1  
GGCTCCTGTCTTTAATGGTTCATTGGAATGTTTGTCAAT  
+HWI-EAS443:3:44:897:115#0/1  
]P`^R[LYS^^a][` ``[N^]ZL¥¥N¥ZGTZ^^[LUBBBB  
@HWI-EAS443:3:44:908:1945#0/1  
CGCTTGGTCAGCAAGTGCTTGTGCATGATGGCATCAATTGG  
+HWI-EAS443:3:44:908:1945#0/1  
aa\_a^^aYaaabbaa\_baaaa`^`bbabaa]aa` `aaaa

@HWI-EAS443:3:44:922:370#0/1  
ATTAGGGCGTGGATTGTCTCCGAAAATCCCACTGCATATG  
+HWI-EAS443:3:44:922:370#0/1  
`bbbaaa\_b`ab`aaa\_a\_a¥a\_a`\_\_^^\_`\_]\_a[\_^  
@HWI-EAS443:3:44:959:487#0/1  
AGCCCATCCACTAACAGGGCAGAGAGGAATTGCCCGCT  
+HWI-EAS443:3:44:959:487#0/1  
`abaa`baa]aaTaaa`^\_aaaa\_a`Z`aa`a\_a^``a\_  
@HWI-EAS443:3:44:972:309#0/1  
CAATGGTGTGGATAGGGAGAACTAAAAGCATTAGTTCA  
+HWI-EAS443:3:44:972:309#0/1  
a\_bb`aUbbabaaaa\_aaa[aa\_\_\_\_aaUaa`a`¥\_Z`  
@HWI-EAS443:3:44:996:506#0/1  
CTCATTATTCTACGATATCTTGCTTTATTGAGAAGTTA  
+HWI-EAS443:3:44:996:506#0/1  
abaabbbababababaaaaababababab`bab\_^`aaa  
@HWI-EAS443:3:45:1070:1354#0/1  
ATCATGACAAGCACTTGCTGACCAAGCGACTGACTCAAAT  
+HWI-EAS443:3:45:1070:1354#0/1  
[baaUa^U^aa\_^a[[aZ\_\_Sa\_`[\_UL[W^a\_a^W]OY  
@HWI-EAS443:3:45:1080:160#0/1  
TGCCCCTAATTACTACTATGAGGAATGCTCCTGTTATCCT  
+HWI-EAS443:3:45:1080:160#0/1  
\_ba\_abaaaaabaa\_aaa`baaa`\_aaa\_a^\_aU^`aYX¥  
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TTAAAGTACAACGGCATAATAACAGACACTATCAAGAGTT  
+HWI-EAS443:3:45:1126:433#0/1  
aa]Y[L`\_`^X`\_]`\_\_a\_¥X]U`ZX\_\_[W[R¥V¥¥ZX]  
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+HWI-EAS443:3:45:1151:281#0/1  
X\_]`¥Y`bbX¥abbbbb`¥ab¥bbbbbab]a]\_aa\_baab  
@HWI-EAS443:3:45:1239:17#0/1  
ATCAATTGGCTAACAATTGGAATTTCTGGCCAGACAATG  
+HWI-EAS443:3:45:1239:17#0/1  
U[b[Z`\_W\_\_S^USUL^^]UWZa\_`\_T¥\_]NXP¥VLQX[\_  
@HWI-EAS443:3:45:1286:673#0/1  
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+HWI-EAS443:3:45:1286:673#0/1  
ab]aa`bba`\_WfYaV`aWIO`QW]bG`\_]\_Wa`\_`aUaQ  
@HWI-EAS443:3:45:1289:1219#0/1  
TGAGTGGTCAGGATATAGCGGGAGTTTTGTTGAGCATCCA  
+HWI-EAS443:3:45:1289:1219#0/1  
abaa^a`\_\_\_\_aa]\_X\_`a`\_a`[\_G[\_^V^Q][SRUG¥W  
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TGACTGTCCAGCAGCAAAGTTGGTGTGCTGATGTTAACA  
+HWI-EAS443:3:45:1305:737#0/1  
\_b^¥`¥\_]a`aZX^[XW[^J^`\_KZ\_`]Z`[WXTX^SRTP  
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GCACCGTCTGGCCAAGACCAACCCACAGTGTCACTGTTTA

+HWI-EAS443:3:45:131:124#0/1  
aabaab\_baa`¥`a\_\_\_\_aaaY````\_`S`^Z\_¥`\_R\_\_X  
@HWI-EAS443:3:45:1343:487#0/1  
CTGGACCACAACCTGCCTGTCTTATCATTAGGGCGTGGATT  
+HWI-EAS443:3:45:1343:487#0/1  
a`bb`ba\_\_\_\_`abaa`aba\_\_bba\_]``a\_[^]a``a\_a`  
@HWI-EAS443:3:45:1394:799#0/1  
ATCGACCGTGGGTGTCTTTCAACCAGAATCTGGAATATCA  
+HWI-EAS443:3:45:1394:799#0/1  
aa```aabWabb[\_MN]aa^`¥V]`a¥\_¥0]aa\_\_\_\_\_¥\_  
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TGTCTGTCCCAGTCCATCCGTTCCGATCCCAAATCATCTC  
+HWI-EAS443:3:45:1405:1546#0/1  
aaaaabWa]\_\_\_\_\_`a^`\_\_]\_]\_Y^^^^ZYGY\_]X^ZZ^  
@HWI-EAS443:3:45:1517:1070#0/1  
CCTCTCCATACAACTCAAGATTTGAGTCAGTCGCTTGGTC  
+HWI-EAS443:3:45:1517:1070#0/1  
aba```abbbaaaa\_`^\_Za]bba`^]¥Y¥`QQ\_[a]¥BBB  
@HWI-EAS443:3:45:1560:782#0/1  
AAATACGGCAATGGTGTGGATAGGGAGAACTAAAAGCA  
+HWI-EAS443:3:45:1560:782#0/1  
\_`^`bX\_aba`````\_S\_abb`^U¥Z````]\_¥¥X\_\_Y\_aa`]  
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ACCACTCATTTATTCTACGATATCTTGCTTTATTGAGAA  
+HWI-EAS443:3:45:1564:205#0/1  
aa\_]W\_`ababaaa\_aaaaa]a```\_aaa\_aa^^aa`[a\_a  
@HWI-EAS443:3:45:1604:660#0/1  
GTAAATGGCAACTCAGCACCGTCTGGCCAAGACCAACCCA  
+HWI-EAS443:3:45:1604:660#0/1  
a¥^`[¥\_a`]^a¥ZNU]¥\_¥V[W¥V^^UR[W[SHOUVUWWU  
@HWI-EAS443:3:45:1634:464#0/1  
AATGCTTTTAGTTCTCCCTATCCAAACACCATTGCCGTAT  
+HWI-EAS443:3:45:1634:464#0/1  
\_W\_Y^ba`]\_bZ^aaa\_ab`a`[^\_]\_```^^[Xa[^`  
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CATATGTTAACATCAGCAACACCAACTTTGCTGCTGGACA  
+HWI-EAS443:3:45:1712:887#0/1  
]a`a`abaaabb```\_`a`Z\_```aaab```]aa`baa`\_]  
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ATTAGACGATACTGGACCACAACCTGCCTGTCTTATCATT  
+HWI-EAS443:3:45:1759:294#0/1  
ababaa`b`\_ZR[^a^\_`¥P\_\_Q\_`^¥^^^VZ\_V]T0[YQ  
@HWI-EAS443:3:45:1781:190#0/1  
ACTTGGTCCATCGGTCATTACAGTAAAGCAAGAACCATTT  
+HWI-EAS443:3:45:1781:190#0/1  
aabbbb`aaaaabb\_`^`a^T]a¥\_\_`^`Z^^a^\_SS¥^\_`^  
@HWI-EAS443:3:45:181:1417#0/1  
AGGGGGATGTGTTTGTGCATAAGGGAACCATTTCATATCATG  
+HWI-EAS443:3:45:181:1417#0/1  
aaaaba^```a```baa^babaa\_]`^b\_[\_aa\_a\_Z`¥a`Y

@HWI-EAS443:3:45:188:709#0/1  
GGGCTCCTGTCTTTAATGGTTCCATTGGAATGTTTGTGCAT  
+HWI-EAS443:3:45:188:709#0/1  
ababa`bbbaabbabbaba`a`ab`a]aab```a`Z¥¥]\_  
@HWI-EAS443:3:45:317:1973#0/1  
CAGGAGCATTCCATAGTGATAATTAGGGGCATTCATTT  
+HWI-EAS443:3:45:317:1973#0/1  
a`aaa¥a¥bba`bVbbaa¥a`bb`bbba``aaabb`aba`  
@HWI-EAS443:3:45:328:1837#0/1  
AGTCTGAATGTGCATGTGTAAATGGTTCTTGCTTTACTGT  
+HWI-EAS443:3:45:328:1837#0/1  
aa\_ab^\_a`WU[Z]a`^[X[`aaaXY`[a`^Z`WXUaZS  
@HWI-EAS443:3:45:340:1255#0/1  
GCCACTCAATTCAACTTGGGAATCAAAATCAGATTGAAAC  
+HWI-EAS443:3:45:340:1255#0/1  
aUR^a¥PaXbXNVSH[^`^OURaWUUVQ[^JYQVW[aY`\_`\_  
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ATCCCAAATCATCTCAAACCGTTTCTTGAACCTAATGCTT  
+HWI-EAS443:3:45:47:709#0/1  
a\_a`aa^aa`aa``¥`^\_\_a[^\_\_^`\_^[\_]\_¥^\_\_  
@HWI-EAS443:3:45:506:878#0/1  
AGAACACAAGAGTCTGAATGTGCATGTGTAAATGGTTCTT  
+HWI-EAS443:3:45:506:878#0/1  
`Z]aabaab]aQ\_aba\_a\_QQ^`\_a\_a^RZ]\_`SXXW\_^  
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GCATTCCAAGGGGAGCATGATATGAATGGTCCCTTATG  
+HWI-EAS443:3:45:526:1096#0/1  
aabbbb`bba\_baa\_aabbaaaaaa`\_`XR\_a\_¥]]S]V  
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AAGAGTCTGAATGTGCATGTGTAAATGGTTCTTGCTTTAC  
+HWI-EAS443:3:45:714:790#0/1  
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CTTTTGTGGTGAAACAGTGACACTGTGGGTTGGTCTTGG  
+HWI-EAS443:3:45:720:357#0/1  
abb¥`b`bb]babaa]Zb\_aaaZaaaab`\_\_b`¥¥XR]a  
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+HWI-EAS443:3:45:810:851#0/1  
aaaaaa]baaa]¥a\_¥PXY[^`^`\_W^aY¥¥[TXBBBBB  
@HWI-EAS443:3:45:819:253#0/1  
GAGGAATTGCCCGCTAATTTACGGAAACCACTGACTGTC  
+HWI-EAS443:3:45:819:253#0/1  
a`aa^aa``\_^¥a¥\_¥\_a``\_\_[[`\_¥¥\_¥¥WY^WTW^¥YY  
@HWI-EAS443:3:45:860:1120#0/1  
GCTGACCAAGCGACTGACTCAAATCTTGAGTTGTATGGAG  
+HWI-EAS443:3:45:860:1120#0/1  
a¥`a]Z¥`\_`S\_a]``YZL¥^Z[`]\_\_¥V\_V``X]\_]\_Y]  
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CACGGAAACCACTGACTGTCCAGCAGCAAAGTTGGTGTG

+HWI-EAS443:3:45:860:1682#0/1  
a`Q[ `[aa\_aa¥`\_a`aXZ`]TMVX[VZ^T`Y^VPFSGU]  
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ATCCACTAACAGGGCAGAGAGGAATTGCCCGCTAATTT  
+HWI-EAS443:3:45:907:1162#0/1  
U`^\_W¥a\_[baa`Z`]¥`\_a\_QZVZa]P]]R[]]a\_`¥a]  
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+HWI-EAS443:3:45:957:1074#0/1  
aa\_`\_aaZ`Z¥b¥aa[\_a\_a`a\_\_[\_^SV\_Y][Y\_^¥L  
@HWI-EAS443:3:46:1038:483#0/1  
GGGACAGACAATAACTTCTCAATAAAGCAAGATATCGTAG  
+HWI-EAS443:3:46:1038:483#0/1  
`\_aa\_aaV^TQY`aV¥]¥\_ZaW]W]aaa^TYZ]]aYaT\_a  
@HWI-EAS443:3:46:1049:1813#0/1  
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+HWI-EAS443:3:46:1049:1813#0/1  
a`aaa`a`aaa`a\_a`aa`a^^`a\_aa`^^[]^]\_V^]]Y  
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+HWI-EAS443:3:46:1068:475#0/1  
aaaaaabbabbb`\_abbba`¥^aaa`a`^^aa¥b[\_a\_  
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ATTTGACTATCTTTCCCTTTTCTATTCTGAAGATCTTGTA  
+HWI-EAS443:3:46:1071:742#0/1  
`bbbaabbabbb^aaabbbaabbabbaabaaba`a  
@HWI-EAS443:3:46:1110:1088#0/1  
AAATCATCTCAAAACCGTTTCTTGAATAATGCTTTTAGT  
+HWI-EAS443:3:46:1110:1088#0/1  
SIT\_]`¥Z^]TM¥YY`aa¥W^P\_\_UFT`\_[\_¥]\_\_\_U\_Z  
@HWI-EAS443:3:46:1137:996#0/1  
ATTTGGGATCCGAACGGATGGACTGGGACAGACAATAACT  
+HWI-EAS443:3:46:1137:996#0/1  
[X¥a\_¥^ZTYX\_Z¥`¥W¥ZZ[S[^U]RPYUYPUVNUWTJY  
@HWI-EAS443:3:46:1315:1114#0/1  
GTCGCTTGGTCAGCAAGTGCTTGTCATGATGGCATCAATT  
+HWI-EAS443:3:46:1315:1114#0/1  
aaaaaa]a\_S[XYU[]\_L^`\_AT\_[S[[]`\_a[X¥UT[[[  
@HWI-EAS443:3:46:1324:1831#0/1  
GATTTTCGGAGACAATCCACGCCCTAATGATAAGACAGGC  
+HWI-EAS443:3:46:1324:1831#0/1  
\_V\_b\_aabb`aR`aaW¥`\_Ua`Y\_\_\_\_a`Z¥`V\_XZ\_^]B  
@HWI-EAS443:3:46:133:1534#0/1  
CAACTGCCTGTCTTATCATTAGGGCGTGGATTGTCTCCGA  
+HWI-EAS443:3:46:133:1534#0/1  
aabbaaab`bS^aababbaab`aaaa\_a`\_a`\_`aaa¥  
@HWI-EAS443:3:46:1351:1610#0/1  
TGTTAAAGTACAACGGCATAATAACAGACACTATCAAGAG  
+HWI-EAS443:3:46:1351:1610#0/1  
aa`\_]S[¥0]WQXVQ00VZ`^VU[T[^YR^RYUTPOOQ[]

@HWI-EAS443:3:46:1356:312#0/1  
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+HWI-EAS443:3:46:1356:312#0/1  
aba`ab`\_a^`\_\_V`aa]ab^W]````]]Y\_`X]aXV]W`  
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AATCCAAACCAAAAGATAATAACCATTGGTTCGGTCTGT  
+HWI-EAS443:3:46:1514:1093#0/1  
abba`aaaaa`a^b^ba`b\_a`aa\_ab\_\_aaa\_U^aa^\_  
@HWI-EAS443:3:46:1549:371#0/1  
GGAGCAGCATATCCTTTTGTGGTGTAAACAGTGACTGT  
+HWI-EAS443:3:46:1549:371#0/1  
aaX`ZXaU¥ZYPP[[\_`^R`YTXVSN]VRUGVWWW¥OTSS  
@HWI-EAS443:3:46:1660:465#0/1  
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+HWI-EAS443:3:46:1660:465#0/1  
```Zb`Zaaaa\_]aVUaaa]aaa`a\_\_a¥\_¥aaa][\_\_T  
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ATTGTCTCCGAAAATCCCACTGCATATGTATCCTATCTGA
+HWI-EAS443:3:46:1663:1660#0/1
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@HWI-EAS443:3:46:1705:558#0/1
GATGATTTGGGATCCGAACGGATGGACTGGGACAGACAAT
+HWI-EAS443:3:46:1705:558#0/1
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+HWI-EAS443:3:46:1737:684#0/1
a_Z]_¥T¥OQVaaaa^¥]R[`[S_Z[XT_X]MKUVNXZ[B
@HWI-EAS443:3:46:1738:1295#0/1
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+HWI-EAS443:3:46:1738:1295#0/1
¥a_V]PZ^_Z¥_^_]¥__`a¥Y]UZJXR¥]_V¥V[X^G¥T
@HWI-EAS443:3:46:1779:1343#0/1
TGCATGTGTAATGGTTCTTGCTTTACTGTAATGACCGAT
+HWI-EAS443:3:46:1779:1343#0/1
```abbab`a`]`baaaaaaaaaaaaa\_aa`a``a`\_\_a`\_  
@HWI-EAS443:3:46:183:1318#0/1  
CCCAGTCCATCCGTTTCGATCCCAAATCATCTCAAACCG  
+HWI-EAS443:3:46:183:1318#0/1  
`]ZQH^aa`a\_]JXWW`TLO¥^MVYT[UNUQVTUWX[TI  
@HWI-EAS443:3:46:194:1414#0/1  
ATAAGACCTTGCTTCTGGGTTGAACATAATCAGAGGGCGAC  
+HWI-EAS443:3:46:194:1414#0/1  
X¥\_¥T]bbabbbabab`¥G]aab`baaaaaa¥\_Y[```  
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GACCGTGGGTGCTTTCAACCAGAATCTGGAATATCAGAT  
+HWI-EAS443:3:46:452:106#0/1  
\_abbabb`W`R`]a¥Y`X\_\_YY`^U`aaX[^¥]Y]a]\_  
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CAAAATCAGATTGAAACATGCAATCAAAGCGTCATTACTT

+HWI-EAS443:3:46:493:1927#0/1  
^`\_#bbaaa`]]`^`a^J[Z^^ba` ``aa`SaVY`a`a[T`  
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+HWI-EAS443:3:46:550:1540#0/1  
aaaa`baS)`a^aaa\_aaZ¥aaaaa¥RZaY`[[[\_[^`\_`\_`\_  
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+HWI-EAS443:3:46:574:646#0/1  
a\_`aaaba`\_Y\_`a¥a\_a`a^T` ``aa`aZ¥V`\_` [ZVQZ\_  
@HWI-EAS443:3:46:702:1417#0/1  
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+HWI-EAS443:3:46:702:1417#0/1  
aa\_]aaa\_`aa`^YRS]\_a\_\_\_\_\_^[[\_Z^X]UZXX]]^[[[^  
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AGATTCTGGTTGAAAGACACCCACGGTCGATTGAGCCAT  
+HWI-EAS443:3:46:827:733#0/1  
aa]aa`bb`a`¥`\_\_a\_`aa` `` `aaUU`O[S`Y\_Y)^]  
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+HWI-EAS443:3:46:832:587#0/1  
aVZV]XYH¥TQ]``YOTZZS\_]\_JHZYY]`¥¥YZRV^VTR  
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+HWI-EAS443:3:46:877:1493#0/1  
a`abaY^a^SbYa^Q¥`\_\_[aYU`a^[a¥`Q]]¥S¥V]^T  
@HWI-EAS443:3:46:894:748#0/1  
CATGTGTAAATGGTTCTTGCTTTACTGTAATGACCGATGG  
+HWI-EAS443:3:46:894:748#0/1  
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@HWI-EAS443:3:46:906:315#0/1  
ATCATGCTCCCCCTTGAATGCAGAACCCTTCTTCTTGACT  
+HWI-EAS443:3:46:906:315#0/1  
aaX][a\_]a`a\_\_aa]\_]` `^\_U[]`V]^V\_\_`¥V]  
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GATAGGGAGAATAAAAGCATTAGTTCAAGAAACGGTTTT  
+HWI-EAS443:3:46:91:611#0/1  
a`a`aaa\_aa`\_` ` `a¥` `` `Ya]`\_`^^`^^]]` `W\_`^`\_  
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+HWI-EAS443:3:46:970:550#0/1  
`^^`a`\_`T\_aa`\_]ZZ^[S]\_Q^`^MY\_```]\_\_H]WU[Q  
@HWI-EAS443:3:47:1000:1869#0/1  
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+HWI-EAS443:3:47:1000:1869#0/1  
Y^OFRQXZXW\_UZYS^aZUWUa\_a`MGQaaTHYTQ\_Q^aa  
@HWI-EAS443:3:47:1043:736#0/1  
AAGAATCGGTTCCAAGGGGGATGTGTTTTGTCATAAGGGAA  
+HWI-EAS443:3:47:1043:736#0/1  
aaaba`ab`L^^¥\_a`]aaW`aU`\_]VXS¥[Z[\_]ZY



@HWI-EAS443:3:47:1164:1158#0/1  
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+HWI-EAS443:3:47:1164:1158#0/1  
``babbbaabbbbaa`\_aaa]`W^aaa][``\_^]a`S  
@HWI-EAS443:3:47:1188:1002#0/1  
ATTTTCGGAGACAATCCACGCCCTAATGATAAGACAGGCA  
+HWI-EAS443:3:47:1188:1002#0/1  
abb[[]`^`[^aZYU\_T[SVX]^`^`\_]Z¥¥\_YVBBBB  
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+HWI-EAS443:3:47:1211:1502#0/1  
abab`[`aba`aaaaab`\_a[aa\_\_Y\_Za[QWa^``a¥``  
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ATCAGATTGAAACATGCAATCAAAGCGTCATTACTTATGA  
+HWI-EAS443:3:47:1298:1653#0/1  
\_\_¥¥`a`ZZa`\_W^]\_^\_aaaaaaaaQU`a\_aYaa\_\_\_\_`  
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+HWI-EAS443:3:47:1337:1493#0/1  
R[a`Z¥`\_¥\_]¥]TY¥a¥YX^U\_WZZ[WYUTT[\_U]`]Y¥  
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¥`babbab`abbbbbbbb`b\_abababbbbaaaabbbabb  
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TTGGTCAGCAAGTGCTTGCATGATGGCATCAATTGGCTA  
+HWI-EAS443:3:47:1534:1529#0/1  
aba`\_aaa\_aa\_Ya\_^aZ`^]a^^`\_\_^\_\_U\_\_\_\_\_^\_]`  
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GTCTTTAATGGTTCATTGGAATGTTTGCATTTAGCAAG  
+HWI-EAS443:3:47:1547:1245#0/1  
`V¥]aa^`\_]`¥`VTV^`\_]S\_ZM[Z¥`¥X^¥^ZTOXTSQ  
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+HWI-EAS443:3:47:1579:774#0/1  
abbbba`bba\_bbbbbbaaab\_bbaaba^aaa``a\_[`\_\_\_\_  
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TCAGGATATAGCGGGAGTTTTGTTTCAGCATCCAGAACTAA  
+HWI-EAS443:3:47:1701:546#0/1  
aaabaaaabab`aa`W`[`\_\_ZL]Z`\_V¥^^Y\_\_¥]U]\_^  
@HWI-EAS443:3:47:1786:834#0/1  
CAGACATATGTTAACATCAGCAACACCAACTTTGCTGCTG  
+HWI-EAS443:3:47:1786:834#0/1  
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+HWI-EAS443:3:47:232:1531#0/1  
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+HWI-EAS443:3:47:248:275#0/1  
^\_Ta\_aY\_aa^^^a¥^\_]X¥[W]P\_WVUZNY\_BBBBBBB  
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+HWI-EAS443:3:47:284:630#0/1  
`ba`b^aaaba`\_abaaaba`a`^a^`a`a¥V^`\_`\_`  
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+HWI-EAS443:3:47:288:351#0/1  
aZa\_^^a¥\_a\_a`^^[a\_Z`¥\_QU^\_NW\_¥¥VSU^TU\_B  
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+HWI-EAS443:3:47:293:1701#0/1  
a\_Ma`aaa^abbU^`aa¥a[]\_YY^`\_`IUR`U`\_Y\_  
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+HWI-EAS443:3:47:350:328#0/1  
a`]`\_NN[]^XSONV]¥YW¥Z[`SXPX^ZQNSRTPV]  
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+HWI-EAS443:3:47:361:1700#0/1  
abaa`bbaaba\_\_`aaa`\_\_a\_\_aa^`\_a\_\_\_`\_Z]`]  
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`a`[b`^aa]\_[a`^`V`\_]IUP\_[[¥`^]\_]WPRZUL  
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+HWI-EAS443:3:47:385:1199#0/1  
`aaa`bbabbabbabababb`abab[babbb`a\_R`ab\_a  
@HWI-EAS443:3:47:45:1189#0/1  
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+HWI-EAS443:3:47:45:1189#0/1  
a`b`]`aaU`¥Q¥aa\_]aa¥b`\_a\_\_¥Ta\_\_¥^`\_NV`  
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+HWI-EAS443:3:47:611:151#0/1  
aaaaabbaaaaaaaaa`a`\_\_a`aaaa`a^^aaYY`U[\_  
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+HWI-EAS443:3:47:637:759#0/1  
abaaababb`bba¥`aaa`aa\_\_`a`\_`aa¥\_\_[^U¥^V  
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+HWI-EAS443:3:47:651:359#0/1  
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GAATGTGCATGTGTAAATGGTTCTTGCTTTACTGTAATGA  
+HWI-EAS443:3:47:673:1800#0/1  
``]baY\_N#ba#a`Y[^aa^]Ta]\_]#\_^]a^\_``Z`  
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+HWI-EAS443:3:47:700:1968#0/1  
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+HWI-EAS443:3:47:749:697#0/1  
a`a\_]\_^FYYaa]```#^ZZM]UX#TUQ\_X#\_X\_XY[P  
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a`a^babbbb\_baaa\_a`VZ\_aaaa`a`\_a\_XaP]`[\_`a  
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+HWI-EAS443:3:47:813:46#0/1  
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+HWI-EAS443:3:47:872:69#0/1  
a`b#^ba`aa\_a]\_aa\_b^^#a`a]^^a\_\_^`^\_]X\_W  
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GAACTAACAGGGCTGGATTGTATAAGACCTTGCTTCTGGG  
+HWI-EAS443:3:47:939:1767#0/1  
^X^aXbba][\_UG[a\_\_```\_]\_]\_]U[[Ma##[V\_[U]  
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a]aa]aaa\_a`aaXa`ba]a`\_\_aba^^`^aaaaa]\_\_`  
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+HWI-EAS443:3:48:1012:1510#0/1  
aa``baaa\_bbaa\_a`b^#]aaa^#`a\_aa\_^aa^]`a\_#  
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+HWI-EAS443:3:48:1020:858#0/1  
aa]XH\_bb`ZYQ\_TN`^XS[]b[]W^`\_a^[\_a\_T\_P\_`^  
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CTGATTCTAGTGAAATCACATGTGTGTGCAGGGATAACTG  
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+HWI-EAS443:3:48:1092:67#0/1  
aa`XRa\_a\_a]\_a^^aa[a\_^Zaaaa¥XV`a¥¥`^GX]¥\_  
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+HWI-EAS443:3:48:1098:723#0/1  
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+HWI-EAS443:3:48:1152:373#0/1  
aa`\_a`aZF^aa`\_Ya^\_aa\_\_^\_\_a`\_`^^`]^\_Z\_Z^  
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+HWI-EAS443:3:48:1157:1172#0/1  
¥aba`a`YY]aaaa`aa`\_`¥[\_XT¥a]\_^RV]\_]VU^Y  
@HWI-EAS443:3:48:1194:1172#0/1  
GACATATGTTAACATCAGCAACACCAACTTTGCTGCTGGA  
+HWI-EAS443:3:48:1194:1172#0/1  
a\_^]\_aaa\_a^`¥a\_\_a^]aaW¥\_^aa¥W\_^a^a^`\_  
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TCTTGAACATAATGCTTTTAGTTCTCCCTATCCAAACACCA  
+HWI-EAS443:3:48:1283:1162#0/1  
`Y^aaa[a]ab[abbb`[¥aa^\_\_a^]`^[\_Z^][^  
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GATTCTGTTGAAAGACACCCACGGTCGATTGAGCCATG  
+HWI-EAS443:3:48:1300:1210#0/1  
a`\_aY[aa`aa\_a\_a`\_`\_WDX^^\_US^[^WUYU¥NQ[WU  
@HWI-EAS443:3:48:1311:772#0/1  
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+HWI-EAS443:3:48:1311:772#0/1  
ab`abaabbaaXa^\_\_\_aX`a`\_`a\_a\_aW\_a`XaWU^`^\_  
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@HWI-EAS443:3:48:1376:299#0/1  
AGCGGGAGCAGCATATCCTTTTGTGGTGTAAACAGTGACA  
+HWI-EAS443:3:48:1376:299#0/1  
ZXXXQXT\_ZQVWX\_ZZS¥b¥]TQU]`X`W¥VWL[LY]`TY  
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+HWI-EAS443:3:48:1376:91#0/1  
a`aba]b^Ua`\_`VU`abR\_\_L\_\_\_\_]^ [WV]Za`¥]\_\_\_\_R]  
@HWI-EAS443:3:48:1390:194#0/1  
AGAATCTGGAATATCAGATAGGATACATATGCAGTGGGAT  
+HWI-EAS443:3:48:1390:194#0/1  
a`L]\_]^^^aaa[\_`¥aXU¥\_Y¥¥^ZSJVTW[YRHMa`ZX  
@HWI-EAS443:3:48:142:533#0/1  
GTGAAATTAGCGGGCAATTCCTCTCTCTGCCCTGTTAGTG  
+HWI-EAS443:3:48:142:533#0/1  
a[ba\_aaa`\_`aaa`\_`aba]¥aaa`a\_\_`[\_`aa]`^\_]a

@HWI-EAS443:3:48:152:1925#0/1  
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+HWI-EAS443:3:48:152:1925#0/1  
^YX\_aT`a^b^\_aaaa`aa\_aa`aX`\_a`a\_^]YZ\_a\_a\_  
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+HWI-EAS443:3:48:1587:1808#0/1  
aa\_ba`bb`\_aaaaa`\_a]¥]\_aaa`¥¥ZY¥^aY¥\_]\_\_  
@HWI-EAS443:3:48:1589:504#0/1  
TTGGGAATCAAAATCAGATTGAAACATGCAATCAAAGCGT  
+HWI-EAS443:3:48:1589:504#0/1  
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CGCTTGGTCAGCAAGTGCTTGTTCATGATGGCATCAATTGG  
+HWI-EAS443:3:48:1600:1403#0/1  
\_a^abbb`\_aa\_a`^baabba``abaaa`\_]`a`^Za\_\_^  
@HWI-EAS443:3:48:1710:723#0/1  
GGATAACAGGAGCATTCCCTCATAGTGATAATTAGGGGCAT  
+HWI-EAS443:3:48:1710:723#0/1  
a`aaaa\_^\_aa¥\_\_\_\_\_]`aa^a\_\_]\_\_\_¥\_\_^]`^X]X^^  
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+HWI-EAS443:3:48:1730:1258#0/1  
aT`¥aa`a\_\_\_aa\_[Xa\_W¥`¥a`U]\_]PHU]V\_\_aY^  
@HWI-EAS443:3:48:1775:1547#0/1  
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+HWI-EAS443:3:48:1775:1547#0/1  
\_`\_SLOW\_b\_YUa][ZTS^[`[V¥aY\_aY]`\_\_T^\_[\_]\_  
@HWI-EAS443:3:48:1791:1042#0/1  
CGCTTGGTCAGCAAGTGCTTGTTCATGATGGCATCAATTGG  
+HWI-EAS443:3:48:1791:1042#0/1  
`¥`^RZ¥¥MY¥VZ¥\_] [WZ]]LTXRWO[`[X]]ZTVVYVR  
@HWI-EAS443:3:48:186:1342#0/1  
GTCTGAATGTGCATGTGTAAATGGTTCTTGCTTTACTGTA  
+HWI-EAS443:3:48:186:1342#0/1  
a`\_a`\_`a\_a]a\_\_\_\_\_^`¥`\_Z^`¥X\_^`^^Z^^^\_Z`\_]\_  
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ATTCCTCTCTGCCCTGTTAGTGGATGGGCTATATACAG  
+HWI-EAS443:3:48:198:729#0/1  
aaaaab`aaba`aa`aab`a]a\_a\_``R\_ZW[\_Z^RW¥V  
@HWI-EAS443:3:48:244:1884#0/1  
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+HWI-EAS443:3:48:244:1884#0/1  
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+HWI-EAS443:3:48:27:1085#0/1  
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+HWI-EAS443:3:48:31:1234#0/1  
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+HWI-EAS443:3:48:331:151#0/1  
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@HWI-EAS443:3:48:370:1596#0/1  
GAAGAAGTTCTGCATTCCAAGGGGGAGCATGATATGAAT  
+HWI-EAS443:3:48:370:1596#0/1  
Y^``\_YX]T\_`\_\_a^^a^`\_]\_]Z]]aaa^a^WY^^SW\_  
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+HWI-EAS443:3:48:387:1208#0/1  
¥ab\_H\_X`bbbaab`]J\_\_`SX][^`NX`¥\_PZ`X\_¥^]R  
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+HWI-EAS443:3:48:391:204#0/1  
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+HWI-EAS443:3:48:415:1932#0/1  
^`a`T]baaba[W]a`aaa\_a\_a`a][`P[^\_^\_a]G\_\_]  
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+HWI-EAS443:3:48:512:1535#0/1  
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+HWI-EAS443:3:48:606:365#0/1  
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+HWI-EAS443:3:48:641:323#0/1  
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+HWI-EAS443:3:48:653:1073#0/1  
aVa`\_[\_^``\_]\_a^\_`U]^`Y`¥¥[[V[Y^Y^¥YYTT

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^`bbaZabab`abbabaabbaaaabaa\_ba\_Y]`V^a`¥  
@HWI-EAS443:3:48:721:394#0/1  
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+HWI-EAS443:3:48:721:394#0/1  
a^baaaa`La\_\_J``aabbay\_a\_]^\_^Z]]aa`Sa`]\_`\_  
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CTCATTATTCTACGATATCTTGCTTTATTGAGAAGTTA  
+HWI-EAS443:3:48:724:246#0/1  
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+HWI-EAS443:3:48:743:1461#0/1  
abaa`b\_baababaaaaaa\_aaaa\_aaaaaa\_]a\_\_a\_X\_  
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+HWI-EAS443:3:48:759:1602#0/1  
a```aaaaaab]`a\_`a\_a^a\_``\_¥XZRZX[]SQ^Y  
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+HWI-EAS443:3:48:772:389#0/1  
aabaWY][¥ayax`]^ay`\_]\_`^`\_`R¥\_]¥YRS\_]`^  
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+HWI-EAS443:3:48:886:1597#0/1  
`[^]]` `aab`\_YZG^]Za]\_ZZR\_[Z]a^[\_]W¥aa]  
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+HWI-EAS443:3:48:907:550#0/1  
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+HWI-EAS443:3:48:993:1316#0/1  
a\_a[\_]^\_\_[\_^]\_Za]^`Y]Y\_^TXSWU\_]V]SUNNZ]  
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+HWI-EAS443:3:49:1267:42#0/1  
`]a^TT\_Xa^^SR\_¥QL]¥]¥¥`V^X]\_X]ZZKZQV\_Y\_^  
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+HWI-EAS443:3:49:1268:1045#0/1  
aa\_US\_``\_aa^]¥\_¥Y\_VZ\_^\_[¥\_]Y]¥]LU^\_Y¥¥  
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[¥S\_bb]aa]bZU^\_]a`U`]X\_U¥^XWN^HNV`[¥YRXQ  
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+HWI-EAS443:3:49:1635:1722#0/1  
R¥^¥a]`a\_XR^X\_W^¥bY`]a`\_\_`^N¥\_UZa\_^Z\_\_a]  
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aa¥a` `]¥aa\_Q`aaa\_ba`^`¥ZZ`^Sa\_Va¥^]b¥¥MT  
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+HWI-EAS443:3:49:601:1298#0/1  
`` `ab`ababa`a`a\_\_aaa\_Saaaaaaaaa\_¥`\_`¥\_``  
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+HWI-EAS443:3:49:782:1808#0/1  
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+HWI-EAS443:3:49:808:1427#0/1  
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+HWI-EAS443:3:49:928:1525#0/1  
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+HWI-EAS443:3:4:1257:1757#0/1  
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+HWI-EAS443:3:4:1309:128#0/1  
a\_a`^Za\_a\_`\_\_\_\_]\_Zaa¥^ZZ¥¥¥¥^VZVVV[¥WSXX¥  
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ababbbabbb\_baa\_a\_baa^\_ba`aaa\_b\_a`\_a`\_^a\_  
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+HWI-EAS443:3:4:1430:1483#0/1  
a¥\_N\_ZaYT]¥0YNTNZYYI]^UTU^¥¥QXUVW]YV^X]B  
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W[\_VT^V[`¥Z¥\_\_`W\_¥[XWWZJZX^]a^Z\_¥WaZU\_BB  
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+HWI-EAS443:3:4:1709:1380#0/1  
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+HWI-EAS443:3:4:1709:505#0/1  
a\_aa`\_b]]`^¥X]^X\_V^VX\_YXXXV]]NGYXXVYBB  
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+HWI-EAS443:3:4:1730:452#0/1  
aa\_baaa`^`b\_\_aaa`a\_aa]`SY\_``¥`]S`\_]`a^Z  
@HWI-EAS443:3:4:1762:424#0/1  
ATAACAGACACTATCAAGAGTTGGAGAAACAATATATTGA  
+HWI-EAS443:3:4:1762:424#0/1  
`aaaaabZPa]\_`]^\_Za^^Zaaa\_a\_\_\_S^^`Y`[a¥\_\_  
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+HWI-EAS443:3:4:1774:556#0/1  
a`Ya`Y`\_a]U`\_a][U]\_W^\_\_\_``]]\_T\_]^^]]WS¥[  
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+HWI-EAS443:3:4:270:1630#0/1  
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+HWI-EAS443:3:4:35:348#0/1  
aaa[a\_aaaa`\_a\_aaa`\_\_\_\_[^¥\_^W\_\_U^¥\_¥¥^¥  
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+HWI-EAS443:3:4:530:706#0/1  
^abbaaa\_\_\_\_`^^]]\_]\_^¥`\_^^Y`[]\_aXFY`\_`Sa\_\_  
@HWI-EAS443:3:4:559:1537#0/1  
ACCACA ACTGCCTGTCTTATCATTAGGGCGTGGATTGTCT  
+HWI-EAS443:3:4:559:1537#0/1  
``\_]a`aaa\_`\_]`\_[`aa`]\_\_Xa¥RR`ZX`\_`^\_ZXX¥  
@HWI-EAS443:3:4:621:943#0/1  
ATTGTCTCCGAAAATCCCCTGCATATGTATCCTATCTGA  
+HWI-EAS443:3:4:621:943#0/1  
aaaa\_aaaaa\_a```^^a`]W\_\_\_\_^\_`W\_\_]U`\_\_^\_a]  
@HWI-EAS443:3:4:690:989#0/1  
GTTTTGTT CAGCATCCAGAACTAACAGGGCTGGATTGTAT  
+HWI-EAS443:3:4:690:989#0/1  
aTaa¥X¥b`aa`a`\_`^a\_^]`\_]\_a]^Z]`\_^]^`X^]  
@HWI-EAS443:3:4:692:428#0/1  
AACAAA ACTCCCGCTATATCCTGACCACTCATTATTCCT  
+HWI-EAS443:3:4:692:428#0/1  
ab`]`aa`a`^Za¥a`\_`a\_]`a\_X[¥^`[\_\_\_\_`\_`^YX^  
@HWI-EAS443:3:4:729:1398#0/1  
CAAGAGTTGGAGAAACAATATATTGAGAACACAAGAGTCT  
+HWI-EAS443:3:4:729:1398#0/1  
aaab¥¥Z\_a^aaaa^\_a]baa`\_a\_aY`a`a``aa^\_Z\_]`  
@HWI-EAS443:3:4:82:888#0/1  
TGA ACTAATGCTTTTAGTTCTCCCTATCCAAACACCATTG  
+HWI-EAS443:3:4:82:888#0/1  
abaaY`[aabbaab^ab^aaa\_^¥`ab\_\_aaa^a\_Paa^\_  
@HWI-EAS443:3:4:882:1173#0/1  
AGCCACTCAATTCAACTTGGGAATCAAATCAGATTGAAA  
+HWI-EAS443:3:4:882:1173#0/1  
a`aaa¥a```aa\_aa^aaaa`\_a```]``^[^`\_`\_a``\_`  
@HWI-EAS443:3:50:1008:1856#0/1  
GCGACTGACTCAAATCTTGAGTTGTATGGAGAGGGAACCTT  
+HWI-EAS443:3:50:1008:1856#0/1  
^^`^`bb`baZ`aaab`a```\_ab^a\_bb¥b`b`^¥\_Y\_]`

@HWI-EAS443:3:50:1043:611#0/1  
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+HWI-EAS443:3:50:1043:611#0/1  
abbbbbbabb`bbbbbbabaabaa`]^aaaaaabb\_Ya`  
@HWI-EAS443:3:50:1053:36#0/1  
ACCACAACCTGCCTGTCTTATCATTAGGGCGTGGATTGTCTC  
+HWI-EAS443:3:50:1053:36#0/1  
Z\_\_WaaaVXVQZ0[Ub`ZTaS[b]XSaZIQ)`bab`\_WJY  
@HWI-EAS443:3:50:1081:1316#0/1  
AGAGGAATTGCCCGCTAATTTACGGAACCACTGACTGT  
+HWI-EAS443:3:50:1081:1316#0/1  
aa`[^b^abbaa`b]a\_`aabaa]Z`ZSa\_XX\_^XV[aXZ  
@HWI-EAS443:3:50:1127:1793#0/1  
GAAACGGTTTTGAGATGATTTGGGATCCGAACGGATGGAC  
+HWI-EAS443:3:50:1127:1793#0/1  
abbaaaaabb`\_a`b`aabbaaa\_`^baa]^`^aa^\_Z  
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ATTGGTTCGGTCTGTATGACAATTGGAATGGCTAACTTAA  
+HWI-EAS443:3:50:1145:73#0/1  
abaabaaabaP[aaabba`\_aaaa`\_a`a`[]^aT`a`\_  
@HWI-EAS443:3:50:1173:1371#0/1  
GTTCTCAATATATTGTTTCTCCAACCTTGATAGTGTCTG  
+HWI-EAS443:3:50:1173:1371#0/1  
a`aa`aaaa`aaa`a`a`^`[^`¥]`¥a`\_\_\_\_`\_]\_^BBB  
@HWI-EAS443:3:50:117:1686#0/1  
GACAGACAATAACTTCTCAATAAAGCAAGATATCGTAGGA  
+HWI-EAS443:3:50:117:1686#0/1  
``a`\_a`aaaaaaaaa\_``aaaaa\_a]``aaaYXYa^[a  
@HWI-EAS443:3:50:1224:312#0/1  
CAGACATATGTTAACATCAGCAACACCAACTTTGCTGCTG  
+HWI-EAS443:3:50:1224:312#0/1  
aaX`^``[``b`]a¥X\_RT\_^^`]TOY\_`QR`\_]aaXaW  
@HWI-EAS443:3:50:1290:1503#0/1  
GATTAGTTCAACCCAGAAGCAAGTCTTATACAATCCAGC  
+HWI-EAS443:3:50:1290:1503#0/1  
a`bbabaaabaaa`aa`a\_X]aaaU[`aaaa\_aaa[[`]  
@HWI-EAS443:3:50:1292:1512#0/1  
ATTGTCTCCGAAAATCCCACTGCATATGTATCCTATCTGA  
+HWI-EAS443:3:50:1292:1512#0/1  
`baa\_aa`\_]aaaa`\_a``¥¥^a\_a`\_aa^^]^`[]  
@HWI-EAS443:3:50:1318:1450#0/1  
CATTATATCATGCTCCCCCTTGAATGCAGAACCTTCTT  
+HWI-EAS443:3:50:1318:1450#0/1  
`bba`abbaaa\_[\_aaaZ\_\_\_\_````\_`RQ\_\_^YF\_`]`U  
@HWI-EAS443:3:50:1323:596#0/1  
GCCACTCAATTCAACTTGGGAATCAAAATCAGATTGAAAC  
+HWI-EAS443:3:50:1323:596#0/1  
`a`bbbaabbbbbbbbaabbaabb\_b`bbbbbbba  
@HWI-EAS443:3:50:1333:289#0/1  
GGCCCCCTTGAGTCAAGAAGAAGTTCTGCATTCCAAGGGG

+HWI-EAS443:3:50:1333:289#0/1  
a]][]`bbb\_`^\_a\_b`\_`^[aaZa\_`\_X¥\_`^^[\_`^¥^  
@HWI-EAS443:3:50:1346:566#0/1  
GTCCCAGTCCATCCGTTCCGATCCCAAATCATCTCAAAAC  
+HWI-EAS443:3:50:1346:566#0/1  
`aaa^`a``aba```a`\_Z\_`]¥\_`\_¥\_a`a`]a`a\_``¥  
@HWI-EAS443:3:50:13:803#0/1  
GTTTGGATAGGGAGAACTAAAAGCATTAGTTCAAGAAACG  
+HWI-EAS443:3:50:13:803#0/1  
aaaaa\_\_a````````baa^aaaa`a`\_a^]\_[]^`Z]  
@HWI-EAS443:3:50:1439:1428#0/1  
CATATGTTAACATCAGCAACACCAACTTTGCTGCTGGACA  
+HWI-EAS443:3:50:1439:1428#0/1  
`bbbabbb^`baWaa`aab\_a`aabb\_XWbaaaba]Z\_  
@HWI-EAS443:3:50:1448:1035#0/1  
GGTTGAAAGACACCCACGGTTCGATTCGAGCCATGCCAGTT  
+HWI-EAS443:3:50:1448:1035#0/1  
a^Y\_\_Y`¥`^\_¥¥XT\_VYZQL¥OQSHUYWQJUUZBBBBBB  
@HWI-EAS443:3:50:1463:776#0/1  
ATTTAGCAAGGCCCTTGAGTCAAGAAGAAGTTCTGCAT  
+HWI-EAS443:3:50:1463:776#0/1  
abaaaab`a`a`\_\_`ba``a]`\_`\_`]a`\_`]¥[\_X``Y^`  
@HWI-EAS443:3:50:1524:1542#0/1  
CAAAGAGAACACAATCTGGACTAGCGGGAGCAGCATATCC  
+HWI-EAS443:3:50:1524:1542#0/1  
`¥Q]\_a`U¥U¥a]^\_abb`aaaaa]``]F`MN^XY`P`TT  
@HWI-EAS443:3:50:1625:1649#0/1  
ATGCCGTTGTACTTTAACACAGCCACTGCCCATTTGTCTG  
+HWI-EAS443:3:50:1625:1649#0/1  
aaaaabab\_HZX`aaa`\_a]`a`\_¥\_`\_`^`\_`¥\_``^¥WW  
@HWI-EAS443:3:50:1706:509#0/1  
ATTCAAATACGGCAATGGTGTGGATAGGGAGAACTAAA  
+HWI-EAS443:3:50:1706:509#0/1  
`b`abbbbbb\_baaaa^ZWa`aa]^Z``¥]aZa¥ZM[^`  
@HWI-EAS443:3:50:239:328#0/1  
GCCTGTCTTATCATTAGGGCGTGGATTGTCTCCGAAAATC  
+HWI-EAS443:3:50:239:328#0/1  
`baaaa`aa`a^¥`a`]a``V[]`\_`\_a``\_\_]Va`a]Z  
@HWI-EAS443:3:50:255:542#0/1  
AAACAATATATTGAGAACACAAGAGTCTGAATGTGCATGT  
+HWI-EAS443:3:50:255:542#0/1  
aaabaab¥`bbbab]bbaa\_\_aaa^`aaaaa]aVL\_a]  
@HWI-EAS443:3:50:272:1097#0/1  
GATGATTTGGGATCCGAACGGATGGACTGGGACAGACAAT  
+HWI-EAS443:3:50:272:1097#0/1  
a\_`aZbbb\_bb\_\_\_\_``^¥\_aS`a^¥Z`^`\_`\_Y]^`\_`^`  
@HWI-EAS443:3:50:276:413#0/1  
GCCCCGTAATTTACGGAAACCACTGACTGTCCAGCAGCA  
+HWI-EAS443:3:50:276:413#0/1  
abbababbbbbbbaaaaaUaabab`bba^aa\_`aa]\_

@HWI-EAS443:3:50:315:832#0/1  
GGCTAACAAATTGGAATTTCTGGCCCAGACAATGGGGCAGT  
+HWI-EAS443:3:50:315:832#0/1  
`a^bab^aababaabbbab````aaaa^aaa`]`\_U[\_N  
@HWI-EAS443:3:50:330:758#0/1  
ATCGAACCTAATGAGCTGTCCTATTGGTGAAGTTCCTC  
+HWI-EAS443:3:50:330:758#0/1  
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@HWI-EAS443:3:50:375:395#0/1  
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+HWI-EAS443:3:50:375:395#0/1  
]bZaa¥`[¥`a`aaaa`aba`aa]TZUa\_\_`aaaa]¥aa  
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GGTCGATTTCGAGCCATGCCAGTTATCCCTGCACACACATG  
+HWI-EAS443:3:50:410:767#0/1  
ab`a[\_ba^`aa`\_abaa`aaaaa``aaaa\_aaaa]aab  
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+HWI-EAS443:3:50:426:826#0/1  
a\_bbbbbbaabababab`bbabba`abaabbaaaba`a  
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AGGGCGTGGATTGTCTCCGAAAATCCCCTGCATATGTAT  
+HWI-EAS443:3:50:467:1209#0/1  
aaaa`b`a`Zbb``\_a`T]a\_a`aZ^\_\_a`Z\_\_^a^aa  
@HWI-EAS443:3:50:529:363#0/1  
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+HWI-EAS443:3:50:529:363#0/1  
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@HWI-EAS443:3:50:541:657#0/1  
ACTCAATTCAACTTGGGAATCAAAATCAGATTGAAACATG  
+HWI-EAS443:3:50:541:657#0/1  
a\_`aa`aa\_\_`aaaa`^a^\_\_`\_]\_a`\_a\_\_`]\_]\_a  
@HWI-EAS443:3:50:606:480#0/1  
TTGCCCCGTAATTTACGGAAACCACTGACTGTCCAGCAG  
+HWI-EAS443:3:50:606:480#0/1  
Zaa`ba¥a`¥baa[b\_a^aa]Z`abab]\_```][TW\_a  
@HWI-EAS443:3:50:609:1079#0/1  
CTGGACCACAACCTGCCTGTCTTATCATTAGGGCGTGGATT  
+HWI-EAS443:3:50:609:1079#0/1  
H\_¥a¥^¥\_\_\_\_aa\_a`bbaa\_aaa\_[abZ\_I\_V\_\_^b`^^  
@HWI-EAS443:3:50:680:587#0/1  
CCCAGAAGCAAGGTCTTATACAATCCAGCCCTGTTAGTTC  
+HWI-EAS443:3:50:680:587#0/1  
a\_QZ\_WZ]W]¥^^X`\_VZ\_[]^Z[^]¥TNWRZ][a\_XWJ  
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ATGCCGTTGTACTTTAACACAGCCACTGCCCATTTGTCTG  
+HWI-EAS443:3:50:691:482#0/1  
ababab^aa`babbaba^aaba^\_aaaaa\_\_`aa`^a`  
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ATTCGAGCCATGCCAGTTATCCCTGCACACACATGTGATT

+HWI-EAS443:3:50:794:414#0/1  
ababbbbaaa`aaa`bb¥aa\_\_\_\_`baZVZ`a`aaa^baa]  
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ATGCAATCAAAGCGTCATTACTTATGAAAACAACACTTGG  
+HWI-EAS443:3:50:810:1270#0/1  
^0\_ab`abbaaaa`aaaa¥a`aa\_`a`^aa]a`a\_a\_  
@HWI-EAS443:3:50:847:155#0/1  
AGAACACAATCTGGACTAGCGGGAGCAGCATATCCTTTTG  
+HWI-EAS443:3:50:847:155#0/1  
ab¥b^babba]bbabaaaaabaa\_`V¥aa`a\_a¥\_aa]a]  
@HWI-EAS443:3:50:877:574#0/1  
GTGTAACAGTGACACTGTGGGTTGGTCTTGCCAGACGG  
+HWI-EAS443:3:50:877:574#0/1  
aa]¥`a\_\_aa^^)`aa`[a[X^`^^[\_aa\_]PYZXR]\_  
@HWI-EAS443:3:50:89:1464#0/1  
GTTCCCTCTCCATACTCAAGATTTGAGTCAGTCGCTT  
+HWI-EAS443:3:50:89:1464#0/1  
\_UYU\_¥^U\_WI\_^^TZ¥]P¥]RQX``a¥QXVHWXQBBBBB  
@HWI-EAS443:3:50:929:1244#0/1  
GGAATCAAAATCAGATTGAAACATGCAATCAAAGCGTCAT  
+HWI-EAS443:3:50:929:1244#0/1  
`Z]\_`^a`ZYZa`^`\_aa¥YT`\_aa\_`[\_Y`]]\_`a\_S]^  
@HWI-EAS443:3:50:975:1551#0/1  
CACAACTGCCTGTCTTATCATTAGGGCGTGGATTGTCTCC  
+HWI-EAS443:3:50:975:1551#0/1  
\_baaaba[a\_ba`aabbaa]^`a^aT`a0^^\_baS[^\_X\_  
@HWI-EAS443:3:50:978:1464#0/1  
ATCCGTTCCGATCCCAAATCATCTCAAACCGTTTCTTGA  
+HWI-EAS443:3:50:978:1464#0/1  
aa`aa^a^`aT]YSb`YX^[[P\_]`UaT0[^aa]Y^a\_`  
@HWI-EAS443:3:50:987:1057#0/1  
CTGTCCCAGTCCATCCGTTCCGATCCCAAATCATCTCAA  
+HWI-EAS443:3:50:987:1057#0/1  
`bba\_bb^babaaa[`a`a^ba\_]\_]`aa¥ZU]a^a\_\_a`  
@HWI-EAS443:3:50:989:1258#0/1  
CGTGAAATTAGCGGGCAATTCCTCTCTCTGCCCTGTTAGT  
+HWI-EAS443:3:50:989:1258#0/1  
ababbbbbaba]bb\_b`b`X`b``\_aaaba`b\_^aa]]  
@HWI-EAS443:3:51:1013:633#0/1  
GGTCCATCGGTCATTACAGTAAAGCAAGAACCATTTACAC  
+HWI-EAS443:3:51:1013:633#0/1  
aaHTYaa`a`TQTa]ZW^W[ZRVURZR¥Z]SX\_a`^XMZV  
@HWI-EAS443:3:51:1021:1611#0/1  
GGTGAAGTTCCTCTCCATACTCAAGATTTGAGTCAG  
+HWI-EAS443:3:51:1021:1611#0/1  
aa\_a\_]`a`aaa]\_\_`a^\_\_a\_\_[\_¥aX`\_aZaa\_X^\_  
@HWI-EAS443:3:51:1089:1497#0/1  
CTGTTTACACCACAAAAGGATATGCTGCTCCCGTAGTCC  
+HWI-EAS443:3:51:1089:1497#0/1  
a`¥\_a¥bbbb\_¥¥\_Y¥X]Z]¥aa\_]\_aa¥NX\_`X\_`¥VRU



@HWI-EAS443:3:51:1187:243#0/1  
GAAATTCCAATTGTTAGCCAATTGATGCCATCATGACAAG  
+HWI-EAS443:3:51:1187:243#0/1  
``a`a¥Z]aabaaa\_HZaZ`]\_Y^^XT^aR¥\_`Ya]`¥  
@HWI-EAS443:3:51:1215:1115#0/1  
CTGTCCAGCAGCAAAGTTGGTGTGCTGATGTTAACATAT  
+HWI-EAS443:3:51:1215:1115#0/1  
\_a¥aab``aa^baabab``]`\_bba`^^aa`a]]Y[ZX^  
@HWI-EAS443:3:51:1236:338#0/1  
AACCGTTTCTTGAACATAATGCTTTTAGTTCTCCCTATCCA  
+HWI-EAS443:3:51:1236:338#0/1  
abaababaaaabaa\_baaaa[aa`^ZX`ZX^`\_Y``\_ZR\_  
@HWI-EAS443:3:51:1237:1850#0/1  
CAACTGCCTGTCTTATCATTAGGGCGTGGATTGTCTCCGA  
+HWI-EAS443:3:51:1237:1850#0/1  
abaabababab`bbababaaa`aa`b\_baaaba\_\_a]Y`\_  
@HWI-EAS443:3:51:1336:696#0/1  
AGTGGGATTTTCGGAGACAATCCACGCCCTAATGATAAGA  
+HWI-EAS443:3:51:1336:696#0/1  
abaaaa\_bbabab`abaaaa\_a\_a``\_a`\_a\_\_\_\_\_ [a  
@HWI-EAS443:3:51:1360:902#0/1  
CGCTAATTTTCACGGAAACCACTGACTGTCCAGCAGCAAAG  
+HWI-EAS443:3:51:1360:902#0/1  
`babbbbbb`b`baabb`b`bbaabba\_a^][aa\_aa^a  
@HWI-EAS443:3:51:1363:1714#0/1  
AATCAAAGCGTCATTACTTATGAAAACAACACTTGGGTAA  
+HWI-EAS443:3:51:1363:1714#0/1  
]ba`bb``]NT^`ba^Ya`babaXa`S`\_MY\_Y^a`aT[a  
@HWI-EAS443:3:51:1388:1407#0/1  
GGGACAGACAATAACTTCTCAATAAAGCAAGATATCGTAG  
+HWI-EAS443:3:51:1388:1407#0/1  
aaa`\_\_b``\_aa\_Uaa\_a\_\_`a\_[`aZ`¥a```\_[a]\_`  
@HWI-EAS443:3:51:1549:460#0/1  
GAGGAATTGCCCGCTAATTTACGGAAACCACTGACTGTC  
+HWI-EAS443:3:51:1549:460#0/1  
\_a\_¥]H[aSUP[QSY^¥ZZ`¥]OXDZ^`\_¥Z]BBBBBBBB  
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GAGCTGTCTATTGGTGAAGTTCCCTCTCCATACAACCTCA  
+HWI-EAS443:3:51:1557:1677#0/1  
\_\_bbabab\_bbbaa\_W]b]`aaa\_aaab^aaba`aaaa\_a  
@HWI-EAS443:3:51:1614:428#0/1  
ATCGACCGTGGGTGTCTTTCAACCAGAATCTGGAATATCA  
+HWI-EAS443:3:51:1614:428#0/1  
ab[aa^aa¥\_^^M^[S`a`U^aY¥]\_Ya`Ga\_\_Z`Y¥YJN  
@HWI-EAS443:3:51:1614:807#0/1  
CCAGATTCTGGTTGAAAGACACCCACGGTCGATTGAGCC  
+HWI-EAS443:3:51:1614:807#0/1  
¥G]`\_bbbbSa]aa\_\_a`a\_X`NZ¥WZ\_GXXN\_SR`¥KN[  
@HWI-EAS443:3:51:1641:1339#0/1  
GCTGCTCCCGCTAGTCCAGATTGTGTTCTCTTTGGGTCGC

+HWI-EAS443:3:51:1641:1339#0/1  
Q]TY[Zb`Z]]\_YTT^`¥][^YZUZW]¥ZMO`¥TXZTW¥P  
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CTTGGGAATCAAAATCAGATTGAAACATGCAATCAAAGCG  
+HWI-EAS443:3:51:1651:1033#0/1  
abbbabbbbbbabbabbabbbbababbb`bbbaaa^^a  
@HWI-EAS443:3:51:1682:709#0/1  
CAGACATATGTTAACATCAGCAACACCAACTTTGCTGCTG  
+HWI-EAS443:3:51:1682:709#0/1  
`]GY]Taa]GSa\_[Z`^`¥[a]USY[a^]]\_]V¥QJOMG  
@HWI-EAS443:3:51:16:918#0/1  
CAAATCTTGAGTTGTATGGAGAGGGAACCTCACCAATAGG  
+HWI-EAS443:3:51:16:918#0/1  
abb\_Z`aaa¥abbaabba]b`aabZa\_aa`a\_\_`Y```\_`  
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GACACCCACGGTCGATTCGAGCCATGCCAGTTATCCCTGC  
+HWI-EAS443:3:51:1721:858#0/1  
\_aab`a^aaaaIV\_a^`U\_a[[ZaNZ\_¥a^Za^Q`\_]T[  
@HWI-EAS443:3:51:187:1522#0/1  
CTGGACCACAACCTGCCTGTCTTATCATTAGGGCGTGGATT  
+HWI-EAS443:3:51:187:1522#0/1  
a\_ba]a\_a``\_a\_`^[a\_¥^`\_`aaba``]XP\_`\_a^[]a  
@HWI-EAS443:3:51:194:306#0/1  
GGGGGATGTGTTTGTGCATAAGGGAACCATTCATATCATGC  
+HWI-EAS443:3:51:194:306#0/1  
aba\_``ab]baaaa\_\_a^\_Z]`\_a]\_\_a\_U[``UV]\_T  
@HWI-EAS443:3:51:197:296#0/1  
CTCTGATTAGTTCAACCCAGAAGCAAGGTCTTATACAATC  
+HWI-EAS443:3:51:197:296#0/1  
aaabba¥`b`aa`]Z`aa]\_aZ¥X^¥Paa`a\_aaa\_\_]  
@HWI-EAS443:3:51:216:812#0/1  
CCACAACCTGCCTGTCTTATCATTAGGGCGTGGATTGTCTC  
+HWI-EAS443:3:51:216:812#0/1  
a`¥`bbba`abbbabbbb]abaaaaaab\_aa`a\_]¥^`\_  
@HWI-EAS443:3:51:290:932#0/1  
GCTGTGTTAAAGTACAACGGCATAATAACAGACACTATCA  
+HWI-EAS443:3:51:290:932#0/1  
aabb`]F]``]P^a\_aa\_a`\_\_`a````^\_aa\_a^``^[[  
@HWI-EAS443:3:51:354:565#0/1  
AATGCTTTTAGTTCTCCCTATCCAAACACCATTTGCCGTAT  
+HWI-EAS443:3:51:354:565#0/1  
ab\_a^aaa`bb^\_U¥a^aa`aaaaa`ZX``[a\_Z`^``  
@HWI-EAS443:3:51:374:706#0/1  
GTTTCCGTGAAATTAGCGGGCAATTCCTCTCTCTGCCCTG  
+HWI-EAS443:3:51:374:706#0/1  
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GGGCTCCTGTCTTTAATGGTTCCATTGGAATGTTTGTCTAT  
+HWI-EAS443:3:51:381:52#0/1  
`a`bb¥a¥¥^bb`aa¥¥a``a\_b`abbb]U\_a^\_\_b^\_X¥

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+HWI-EAS443:3:51:448:573#0/1  
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+HWI-EAS443:3:51:474:1314#0/1  
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ATTGTCTCCGAAAATCCCACTGCATATGTATCCTATCTGA  
+HWI-EAS443:3:51:491:1006#0/1  
abaa`aaaaaaaa`aaa`\_\_````aaa`\_`\_`aaa`\_```  
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]HIVZa]\_UYbP`¥[a\_ZYaY\_\_[\_W\_`V`UQ¥UO[\_`YT  
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+HWI-EAS443:3:51:611:1670#0/1  
\_a`b^a\_a`\_`\_`^`aaaa\_\_a\_a^^]a]\_\_^\_Y`a^`\_`\_`  
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+HWI-EAS443:3:51:638:1183#0/1  
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+HWI-EAS443:3:51:683:1716#0/1  
aba\_aaaa`^\_aaaa\_aa`a\_¥[\_aaab]a`aa¥a`\_`\_`  
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+HWI-EAS443:3:51:697:1309#0/1  
a`a¥aab\_bba]abaab`aaXa[a]`[a`]a`P\_ba^[^  
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+HWI-EAS443:3:51:898:1284#0/1  
ab`b¥HYba^bbaaaabaaa`\_`a`\_`a][T^GOXUNT[L  
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aa^`Xa\_¥a`W^WLRX0`^a^^\_Q¥\_`\_`a\_Y`YSX\_X[Z  
@HWI-EAS443:3:51:953:1952#0/1  
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+HWI-EAS443:3:51:953:1952#0/1  
¥\_\_`^bab[bb`^b^a`bb\_\_]\_`abaaaba`¥Zba¥a\_  
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+HWI-EAS443:3:51:981:1226#0/1  
]\_\_SaWTW`^a\_bbZZaab`^`bbbb^[ba^aaaa[```¥  
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+HWI-EAS443:3:51:993:1232#0/1  
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+HWI-EAS443:3:52:1081:1234#0/1  
aaa`\_YYa\_]a`baaa^a]\_]`^\_\_¥^`a]\_a\_\_`X\_\_  
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+HWI-EAS443:3:52:123:1293#0/1  
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+HWI-EAS443:3:52:1355:724#0/1  
aba\_\_aa¥a]`\_`\_^a`^^\_^`^^`\_^`\_\_][\_\_\_\_^`^^^  
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¥[^`\_URa]G[`Q¥`¥Z\_\_S¥`\_^`¥¥`¥^\_\_aa\_^][Y  
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``\_T\_`a¥`R]R¥a\_\_ZJV¥SZT`[KVVWTRT]^]^]TO  
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a````\_\_aa`Y]aa[]\_\_¥Z^`\_\_\_\_[^[YVGO[[`^WY  
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aaa^¥[`^`\_`\_¥ZF¥Xa]]`YZ¥Y]WZ¥WYTTTTY`]Y¥  
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+HWI-EAS443:3:52:627:422#0/1  
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+HWI-EAS443:3:53:100:30#0/1
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+HWI-EAS443:3:53:1413:80#0/1
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CTGGACCACAACCTGCCTGTCTTATCATTAGGGCGTGGATT
+HWI-EAS443:3:53:185:1080#0/1
abaaaaa]_`aaaa`¥a`a`a``_a``a[^aaWaa[_a
@HWI-EAS443:3:53:258:1203#0/1
ATGAATGGTTCCCTTATGACAAACACATCCCCCTTGAAC
+HWI-EAS443:3:53:258:1203#0/1
aaabbabb_baa`aaaaa`aaa^a`a`_`_Z``_¥X``X
@HWI-EAS443:3:53:26:687#0/1
AGGGGGATGTGTTTGTGCATAAGGGAACCATTCATATCATG
+HWI-EAS443:3:53:26:687#0/1
ab_abaaaa_baaaa_aaaXS_aa``a_aa`[_`a`a`a`a`
@HWI-EAS443:3:53:289:2019#0/1
ATTCATATCATGCTCCCCCTTGAATGCAGAACCTTCTTC
+HWI-EAS443:3:53:289:2019#0/1
abaabbbbbba`bb`a`_`_a`a^a_a_____]a^Y
@HWI-EAS443:3:53:290:449#0/1
GGTGAAGTTCCTCTCCATACAACCTCAAGATTTGAGTCAG
+HWI-EAS443:3:53:290:449#0/1
_b¥ba]`X`aaa`aaa`^_a_]_aa`aa__a_a_b^]_a
@HWI-EAS443:3:53:29:151#0/1
CTTGAATGCAGAACCTTCTTCTTGAAGGGCCTTG
+HWI-EAS443:3:53:29:151#0/1
abbbbbbb`bbaabbbbbabbbaaab]`Z_a`_``a
@HWI-EAS443:3:53:306:926#0/1
CGCTAATTTACGGAAACCACTGACTGTCCAGCAGCAAAG

+HWI-EAS443:3:53:306:926#0/1
abb`Y^^bbabbY^a`a`¥Yaa_aaaa[`_]__KZPX]BB
@HWI-EAS443:3:53:324:1985#0/1
GTCTTTCAACCAGAATCTGGAATATCAGATAGGATACATA
+HWI-EAS443:3:53:324:1985#0/1
_S`T`Y`___¥_^aa^`b`¥¥`_aa_¥_[¥`aa^_ZW^PZ
@HWI-EAS443:3:53:334:1093#0/1
GTCAGGATATAGCGGGAGTTTTGTTTCAGCATCCAGAACTA
+HWI-EAS443:3:53:334:1093#0/1
a_`^aaW`^a`^aaaU`Y]___¥[UX[]]YU_]YYYYXY
@HWI-EAS443:3:53:345:326#0/1
GTCCCAGTCCATCCGTTCCGATCCCAAATCATCTCAAAC
+HWI-EAS443:3:53:345:326#0/1
ab^a^aaa^aa`_`R]^`^_]^^W^^]N^]^`¥_Y^^__Q
@HWI-EAS443:3:53:348:57#0/1
GTAGGAATAAATGAGTGGTCAGGATATAGCGGGAGTTTTG
+HWI-EAS443:3:53:348:57#0/1
a^`aa__a`_^`a^aVa`][V`aV]]_W^X`_`W_RYZYY
@HWI-EAS443:3:53:354:157#0/1
CTTCCCTTTTCTATTCTGAAGATCTTGTATGAGGCCTGT
+HWI-EAS443:3:53:354:157#0/1
abbababbaab]a[baa`aYZa¥a_baa¥aa``aa_Ua`Y
@HWI-EAS443:3:53:358:1110#0/1
GACATATGTTAACATCAGCAACACCAACTTTGCTGCTGGA
+HWI-EAS443:3:53:358:1110#0/1
U[_¥[¥Z`_]ab_aa`Z`a[OY]]_ZNTa]aa__aY^Y[Z
@HWI-EAS443:3:53:373:1116#0/1
GCAGAACCTTCTTCTGACTCAAGGGCCTTGCTAAATGA
+HWI-EAS443:3:53:373:1116#0/1
aa]Z]^Z[¥aJ^aaaaX_U_``__`U[^Va`0^__PWaWW
@HWI-EAS443:3:53:440:289#0/1
CTGGGCCAGAAATTCCAATTGTTAGCCAATTGATGCCATC
+HWI-EAS443:3:53:440:289#0/1
aabab_`W^`b`aaa`aa_aabaaa¥b^]^`^__aaY`^`^
@HWI-EAS443:3:53:465:254#0/1
GTTCCCTCTCCATACAACCTCAAGATTTGAGTCAGTCGCTT
+HWI-EAS443:3:53:465:254#0/1
aaaa]M^`a^a_a^`Y_a__^a_a``__a[W^a^`_V[Y
@HWI-EAS443:3:53:511:186#0/1
GGGATGTGTTTGTGATAAGGGAACCATTCATATCATGCTC
+HWI-EAS443:3:53:511:186#0/1
`ba`aaaaabb_`aabaaa_]`aaa_aa`aZ`aa`_`_
@HWI-EAS443:3:53:527:1235#0/1
AGCCACTCAATTCAACTTGGGAATCAAATCAGATTGAAA
+HWI-EAS443:3:53:527:1235#0/1
a]^bbbbbaVa]_a__`Y^^¥¥Sa__HM`T^XY¥a]bVXJ]
@HWI-EAS443:3:53:539:1213#0/1
CGATACTGGACCACAACCTGCCTGTCTTATCATTAGGGCGT
+HWI-EAS443:3:53:539:1213#0/1
abbbba`baba`baabba`bbb^abbab`abab[`a__¥

+HWI-EAS443:3:54:1051:1506#0/1
_ba_a`_W^_aab`aaa_^_¥^_a¥]`^`^`aaaa`^a¥N
@HWI-EAS443:3:54:105:535#0/1
GTCTTTACTGTATATAGCCCATCCACTAACAGGGCAGAGA
+HWI-EAS443:3:54:105:535#0/1
a`aaaRaWN]¥]Z[_¥UYV¥UPZX_ZW[V¥WX_[NWSR¥T
@HWI-EAS443:3:54:1117:1214#0/1
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+HWI-EAS443:3:54:1117:1214#0/1
¥_^V_V_a[Q`a^aaa`a`^^^a_Z^¥`a[``_[]a_a_
@HWI-EAS443:3:54:1233:46#0/1
GCCACTCAATTCAACTTGGGAATCAAAATCAGATTGAAAC
+HWI-EAS443:3:54:1233:46#0/1
aX¥¥P__^^^`^[_]a^YZ__W[X]^_X¥Y`]^SF
@HWI-EAS443:3:54:124:1132#0/1
TGTCTGTTATTATGCCGTTGTACTTTAACACAGCCACTGC
+HWI-EAS443:3:54:124:1132#0/1
aa_aaa¥a]aa]^_¥_a[`S¥_[`a_]`^`_`_`[^ULZ
@HWI-EAS443:3:54:1378:1250#0/1
ATAACAGACACTATCAAGAGTTGGAGAAACAATATATTGA
+HWI-EAS443:3:54:1378:1250#0/1
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@HWI-EAS443:3:54:1389:238#0/1
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+HWI-EAS443:3:54:1389:238#0/1
W[`abb¥Z[a]bb[bbbabaaabba¥aU[_b_ba_TXVX`
@HWI-EAS443:3:54:1426:80#0/1
CGTGAAATTAGCGGGCAATTCCTCTCTCTGCCCTGTTAGT
+HWI-EAS443:3:54:1426:80#0/1
JaZ]`ba`_`_U_ZTZ¥[Yb_^b_^[V`_QX`abba^UaL
@HWI-EAS443:3:54:1438:1072#0/1
TGTCTTATCATTAGGGCGTGGATTGTCTCCGAAAATCCCA
+HWI-EAS443:3:54:1438:1072#0/1
a]``bbbb_abaaaaaaaa`[`aaa][__^]¥`[_PTWZ
@HWI-EAS443:3:54:1489:568#0/1
TCCGTTCCGATCCCAAATCATCTCAAACCGTTTCTTGAA
+HWI-EAS443:3:54:1489:568#0/1
aba¥¥¥^¥_Z¥_^Z^H_¥_¥_]a¥`aaa_`]Z]¥_^]]XZ
@HWI-EAS443:3:54:1492:693#0/1
CCCAAATCATCTCAAACCGTTTCTTGAACCTAATGCTTTT
+HWI-EAS443:3:54:1492:693#0/1
a`bbbb`_`bba^abbb`_`abb]b``ababbbb`_`aba
@HWI-EAS443:3:54:1507:1010#0/1
TTCCAAGGGGATGTGTTTGTGCATAAGGGAACCATTTCATA
+HWI-EAS443:3:54:1507:1010#0/1
aba`[abb`a`Y`aVa^ab__]`_^¥Q]_¥_VO``a¥_`_
@HWI-EAS443:3:54:1523:1247#0/1
ACTGCATATGTATCCTATCTGATATTCCAGATTCTGGTTG
+HWI-EAS443:3:54:1523:1247#0/1
`YaaZ^bbb`_`abY^a]`aa`_aaaa^Xaa`aa`a^aa

@HWI-EAS443:3:54:1549:323#0/1
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+HWI-EAS443:3:54:1549:323#0/1
aa`abbbababbbabab_H^aabbbbabba[aba_b^`^b
@HWI-EAS443:3:54:1659:486#0/1
GACAGACAATAACTTCTCAATAAAGCAAGATATCGTAGGA
+HWI-EAS443:3:54:1659:486#0/1
_baabaaa`aba` `a_aaaaa`aa_aaaaaab^b]aaa_
@HWI-EAS443:3:54:1661:228#0/1
CAAATCTTGAGTTGTATGGAGAGGGAACCTCACCAATAGG
+HWI-EAS443:3:54:1661:228#0/1
_bbbbabbb`a`bbbaaab`aa` [bab`bba`Z¥`babbR
@HWI-EAS443:3:54:1667:364#0/1
CTTTAACACAGCCACTGCCCCATTGTCTGGGCCAGAAATT
+HWI-EAS443:3:54:1667:364#0/1
S_abbaaba` `bZbabba^^^bb_PW__P]H]_Ubbb_^_
@HWI-EAS443:3:54:1686:217#0/1
CCTGATTCTAGTGAATCACATGTGTGTGCAGGGATAACT
+HWI-EAS443:3:54:1686:217#0/1
_^` `¥bbb]a_J_[b_b__Z_b_ab^W`b^W[^` [baa_`
@HWI-EAS443:3:54:1692:153#0/1
CAGGCCTCATACAAGATCTTCAGAATAGAAAAGGGAAAAGA
+HWI-EAS443:3:54:1692:153#0/1
ab` `[Sbaa_a` `Y_[_abba_a]_¥_` `a_aaaa^aaa
@HWI-EAS443:3:54:235:462#0/1
TCGGATCCCAAATCATCTCAAACCGTTTCTTGAACATAAT
+HWI-EAS443:3:54:235:462#0/1
aabababbaa_aabaaaaaaaaaaaa_b¥`aaa`a__`a_`a
@HWI-EAS443:3:54:253:2031#0/1
AGTGAAATCACATGTGTGTGCAGGGATAACTGGCATGGCT
+HWI-EAS443:3:54:253:2031#0/1
aUQbbbaaab`aa`a_a`^X`a`_aa` `¥a`][aa^____
@HWI-EAS443:3:54:292:19#0/1
TGGTGTGGATAGGGAGAACTAAAAGCATTAGTTCAAGA
+HWI-EAS443:3:54:292:19#0/1
[`YV`P`a` `URPY_Y¥baaaVX]U]`^¥aaS_Y¥_LD[V
@HWI-EAS443:3:54:346:177#0/1
CCCTTTTCTATTCTGAAGATCTTGTATGAGGCCTGTCCAT
+HWI-EAS443:3:54:346:177#0/1
abbbbbbbbbbbbabbaaaaaabaa`aaaaa`a_a_¥^a_
@HWI-EAS443:3:54:453:180#0/1
AGCCCATCCACTAACAGGGCAGAGAGGAATTGCCCGCT
+HWI-EAS443:3:54:453:180#0/1
abbbabbabaaaaaaaaaaaa` `a_a_` `__a^` `¥[V_¥¥
@HWI-EAS443:3:54:478:940#0/1
GACTATCTTTCCCTTTTCTATTCTGAAGATCTTGTATGAG
+HWI-EAS443:3:54:478:940#0/1
aaaaaaaaaaaa_a`aa]aabaa`MO[^V¥UO[_UVO¥SMP[
@HWI-EAS443:3:54:484:1583#0/1
GAATTGCCCGCTAATTTACGGAAACCACTGACTGTCCAG

+HWI-EAS443:3:54:484:1583#0/1
a`ZTRG]a^a[YRUU`_``[S[^_¥W[]¥]VRUYSOQBBB
@HWI-EAS443:3:54:485:1140#0/1
ATTCATATCATGCTCCCCCTTGGAATGCAGAACCTTCTTC
+HWI-EAS443:3:54:485:1140#0/1
aabbabbabaabaaaa`a`aaa`aa_a¥¥¥`_aaa`__
@HWI-EAS443:3:54:513:406#0/1
CCCTCTCCATACTCAAGATTTGAGTCAGTCGCTTGGT
+HWI-EAS443:3:54:513:406#0/1
abbbbbbbba]b]aabaababbbbab`¥bb¥^]V]b``X
@HWI-EAS443:3:54:538:1122#0/1
ATTCAAATACGGCAATGGTGTGGATAGGGAGAACTAAA
+HWI-EAS443:3:54:538:1122#0/1
]Y_X¥QV`_`aZ¥¥a`a¥GZUa`aW[VSHHXFFNVWYU]]
@HWI-EAS443:3:54:553:184#0/1
GTGAAATCAGTGTGTGCAGGGATAACTGGCATGGCTC
+HWI-EAS443:3:54:553:184#0/1
a_b`babbaaabaab`b_a__bba^aaa_ab`X`_a_Y_[
@HWI-EAS443:3:54:588:101#0/1
CTGTCTTATCATTAGGGCGTGGATTGTCTCCGAAAATCCC
+HWI-EAS443:3:54:588:101#0/1
abaabbbbabbbbaa`babb^`bba_aa_a`_`a`Y][
@HWI-EAS443:3:54:607:1042#0/1
GCCAGAAATTCCAATTGTTAGCCAATTGATGCCATCATGA
+HWI-EAS443:3:54:607:1042#0/1
aaaaaaabbbbabYa`a_a`_`ab_aaa__a`_aa_a`_`
@HWI-EAS443:3:54:623:1308#0/1
GGGCTCCTGTCTTTAATGGTCCATTGGAATGTTTGTTCAT
+HWI-EAS443:3:54:623:1308#0/1
a`aababbb`abaaabaa_a`_aaa¥__aaaa`aa_^__
@HWI-EAS443:3:54:676:300#0/1
CTCAATATGGATTAGCCACTCAATTCAACTTGGGAATCAA
+HWI-EAS443:3:54:676:300#0/1
`¥aa`b`_b^`aaabaaa[`aa]`a`aaaaab`]_^a_
@HWI-EAS443:3:54:712:1804#0/1
AACTGCCTGTCTTATCATTAGGGCGTGGATTGTCTCCGAA
+HWI-EAS443:3:54:712:1804#0/1
Ta^a`Z¥^S_bbbbbbbb¥XY_ZP`^X¥a_KQW[PTY¥b
@HWI-EAS443:3:54:724:1230#0/1
ATTAGGGCGTGGATTGTCTCCGAAAATCCCACTGCATATG
+HWI-EAS443:3:54:724:1230#0/1
aabbab^b`_a`abbaaa`a_a`_`Ya]_a_U[¥V`_`a]
@HWI-EAS443:3:54:728:1806#0/1
CGCTATATCCTGACCACTCATTATTCTACGATATCTTG
+HWI-EAS443:3:54:728:1806#0/1
abaX^_^`[]`^_]_a`_`^b^Ya`_]`R_Y_^aT]X]`[^
@HWI-EAS443:3:54:762:1357#0/1
TGGGAATCAAAATCAGATTGAAACATGCAATCAAAGCGTC
+HWI-EAS443:3:54:762:1357#0/1
aa]b¥a_a`aba`_a`_aa_a¥Y^a_a_a`¥^a`ZaSaYV

@HWI-EAS443:3:54:765:362#0/1
ATCATGCTCCCCCTTGAATGCAGAACCCTTCTTCTTGACT
+HWI-EAS443:3:54:765:362#0/1
a^_¥`^a^aa^)``_]X_Z^[^]X[Z¥[Y`XRX¥VVXS¥
@HWI-EAS443:3:54:810:667#0/1
AGGGAGAACTAAAAGCATTAGTTCAAGAAACGGTTTTGAG
+HWI-EAS443:3:54:810:667#0/1
abbaabababaaaab^`bbababa`abaaa`ba¥abaa[a
@HWI-EAS443:3:54:865:1574#0/1
ATCAAAGCGTCATTACTTATGAAAACAACACTTGGGTAAA
+HWI-EAS443:3:54:865:1574#0/1
a`a_a_`abY^aaaYa```a_a`]a`a`_`¥a^aUTLXa^
@HWI-EAS443:3:54:953:1801#0/1
GACCGTGGGTGTCTTTCAACCAGAATCTGGAATATCAGAT
+HWI-EAS443:3:54:953:1801#0/1
a]GN_`]¥¥PaP``b]Y¥^XHq]X__W]Wsa]^__RY_[]
@HWI-EAS443:3:54:962:1590#0/1
ATATGTTAACATCAGCAACACCAACTTTGCTGCTGGACAG
+HWI-EAS443:3:54:962:1590#0/1
aabbabab]ba``babb_aa_ba[aaaba````aa_X`a
@HWI-EAS443:3:54:983:1557#0/1
TAAGAATCGGTTCCAAGGGGATGTGTTTGCATAAGGGA
+HWI-EAS443:3:54:983:1557#0/1
`T^aabWZ_V[SW]WZ^]S`^YZZH][WURRS^WZ_V]XP
@HWI-EAS443:3:54:9:212#0/1
CTCCTGTTATCCTGATTCTAGTGAAATCACATGTGTGTGC
+HWI-EAS443:3:54:9:212#0/1
aU``U¥FZa¥¥LN[MYZ^¥PXYFX_TVU_U]_U^G_H`N
@HWI-EAS443:3:55:1044:350#0/1
CGATACTGGACCACAACACTGCCTGTCTTATCATTAGGGCGT
+HWI-EAS443:3:55:1044:350#0/1
ab]]Z`XPYYOV_RQRU^aWS¥X_NXNV]Z^_U]VVaXBB
@HWI-EAS443:3:55:1098:1576#0/1
TCAGGATATAGCGGGAGTTTTGTTTCAGCATCCAGAACTAA
+HWI-EAS443:3:55:1098:1576#0/1
¥ZW_¥^¥`¥`b`[a_U^[^a_]`^]¥][¥ZZ^¥]R[OX][
@HWI-EAS443:3:55:1100:147#0/1
ATTCATATCATGCTCCCCCTTGAATGCAGAACCCTTCTTC
+HWI-EAS443:3:55:1100:147#0/1
abbabbababba`aaa^`_aa`aa`a]`___^]`__^^]
@HWI-EAS443:3:55:1195:149#0/1
CGCTTGGTCAGCAAGTGCTTGTGCATGATGGCATCAATTGG
+HWI-EAS443:3:55:1195:149#0/1
aabbbbbb`abb``abababbbZaabb_aaaaaaaa_bab_
@HWI-EAS443:3:55:1229:1236#0/1
TGCCCCTAATTATCACTATGAGGAATGCTCCTGTTATCCT
+HWI-EAS443:3:55:1229:1236#0/1
`aaXV`baY[```a^HaV`a[]_```a`_^[_b]a_a]`_
@HWI-EAS443:3:55:1245:935#0/1
CACGGTCGATTCGAGCCATGCCAGTTATCCCTGCACACAC

+HWI-EAS443:3:55:1245:935#0/1
a_]a^Z`ZRSZSOU`W]WTMTRRZQ¥]^Z_[X¥RSNWPZ]
@HWI-EAS443:3:55:124:1766#0/1
ACTCAATTCAACTTGGGAATCAAAATCAGATTGAAACATG
+HWI-EAS443:3:55:124:1766#0/1
a^_`__^^_]_]_^_]¥_^_`^ZX¥^^^^^^]V_^^^Z^
@HWI-EAS443:3:55:1288:1106#0/1
GTCTCCGAAAATCCCCTGCATATGTATCCTATCTGATAT
+HWI-EAS443:3:55:1288:1106#0/1
a`_a]`a_`aaa`__a_a`^`a`aa]a`_^a^`^`____`
@HWI-EAS443:3:55:1359:149#0/1
GGTCATTACAGTAAAGCAAGAACCATTTACACATGCACAT
+HWI-EAS443:3:55:1359:149#0/1
aa]Zaaa^^_a___bSaaa_`X]__`_a^`^`^a]Y[_`
@HWI-EAS443:3:55:1378:1293#0/1
CCAGATTCTGGTTGAAAGACACCCACGGTCGATTGAGCC
+HWI-EAS443:3:55:1378:1293#0/1
]_bbaba¥abbaa_a`bb``_a^`baab_Y``¥QG`aWWW
@HWI-EAS443:3:55:1409:1679#0/1
GGACCACAACCTGCCTGTCTTATCATTAGGGCGTGGATTGT
+HWI-EAS443:3:55:1409:1679#0/1
aaaa]babbbXab_]abaaaaa^aaaa_a`W¥_]`_]aa__
@HWI-EAS443:3:55:1417:292#0/1
GACCGTGGGTGTCTTTCAACCAGAATCTGGAATATCAGAT
+HWI-EAS443:3:55:1417:292#0/1
aa]___]`]b_ba^aaa`^]N[`a[]`^``¥^U]¥aZ_^^`
@HWI-EAS443:3:55:143:1710#0/1
AAGCAAGAACCATTTACACATGCACATTCAGACTCTTGTG
+HWI-EAS443:3:55:143:1710#0/1
aa_aaa¥aaa`aaa`a`a_a``__a_`__`[]^`]`^¥¥^
@HWI-EAS443:3:55:1479:193#0/1
CAGCAAGTGCTTGTGCATGATGGCATCAATTGGCTAACAAAT
+HWI-EAS443:3:55:1479:193#0/1
`bababaaa[bbaWa`aa_aab¥ba`_`ba`X^`aa_aaa
@HWI-EAS443:3:55:1494:351#0/1
CTTGAGTCAAGAAGAAGTTCTGCATTCCAAGGGGGAGCA
+HWI-EAS443:3:55:1494:351#0/1
ababbbR¥bbbbbaabbab`baabbbbaabaaabaaaa
@HWI-EAS443:3:55:159:54#0/1
GTTATTATGCCGTTGTACTTTAACACAGCCACTGCCCCAT
+HWI-EAS443:3:55:159:54#0/1
a^aa`a[aa_^aZ_`^_Z_`____]^X^`Z]^XYXYXWU^
@HWI-EAS443:3:55:1697:1961#0/1
TGCAGAACCTTCTTCTTACTCAAGGGGCCTTGCTAAATG
+HWI-EAS443:3:55:1697:1961#0/1
a_babaa_abba]aaabaa`a_`bbaZa`_a`aYa`a¥X^
@HWI-EAS443:3:55:217:1201#0/1
GAACTAATGCTTTTAGTTCTCCCTATCCAAACACCATTGC
+HWI-EAS443:3:55:217:1201#0/1
aa`aaaa^aa`[aaaa`_a_aa_a__b]^`a[^a^S`V`^

@HWI-EAS443:3:55:254:1316#0/1
CGAAAATCCCCTGCATATGTATCCTATCTGATATTCCAG
+HWI-EAS443:3:55:254:1316#0/1
¥YZ^Z`aa`aa[VY_^^`a`ZX``_`^```¥Y_``¥[RV[
@HWI-EAS443:3:55:272:72#0/1
GAGCTGTCCTATTGGTGAAGTTCCCTCTCCATACAACTCA
+HWI-EAS443:3:55:272:72#0/1
aaaa_b``^aZaaaa^^_Z¥Y^[_U^W]X]VZYV[VUWV]
@HWI-EAS443:3:55:330:377#0/1
TGATATTCCAGATTCTGGTTGAAAGACACCCACGGTCGAT
+HWI-EAS443:3:55:330:377#0/1
ab_a`aa`a[[]`b]``_¥Vab]aQa_aa`¥_aaaaNKX¥[
@HWI-EAS443:3:55:370:850#0/1
GTCCATCCGTTCCGATCCCAAATCATCTCAAAACCGTTTC
+HWI-EAS443:3:55:370:850#0/1
aaa`aaaab`^aaa__¥`__`a`_`^`^a`_a`]^_[]Z
@HWI-EAS443:3:55:375:1437#0/1
GATGCCATCATGACAAGCACTTGCTGACCAAGCGACTGAC
+HWI-EAS443:3:55:375:1437#0/1
a[Xbabb`^aaa`aa`a^_`_]`a¥^_`WX[``]__aZ[
@HWI-EAS443:3:55:379:346#0/1
GTTGAAAGACACCCACGGTCGATTCGAGCCATGCCAGTTA
+HWI-EAS443:3:55:379:346#0/1
aaaa`^`_`_aa__Z`_a`UU`¥¥^T^V¥QW[WYWZZ^UVW
@HWI-EAS443:3:55:418:765#0/1
TCGGTCATTACAGTAAAGCAAGAACCATTTACACATGCAC
+HWI-EAS443:3:55:418:765#0/1
¥`¥WM¥`_XXSQa¥Z_^^` `[^TZU]_abbb`Z__S]TYT
@HWI-EAS443:3:55:525:1461#0/1
CTCATTTATTCTACGATATCTTGCTTTATTGAGAAGTTA
+HWI-EAS443:3:55:525:1461#0/1
abaabbbbabaaab`a_a_a_aaaaaaaaaaaa`aa^^^aa
@HWI-EAS443:3:55:529:1323#0/1
GCTCCCCCTTGAATGCAGAACCTTCTTCTTGAAGTCAAGG
+HWI-EAS443:3:55:529:1323#0/1
^babbbbbbbbaa_[Uaaaaa[bba`a_baaaaa_baa`
@HWI-EAS443:3:55:571:1866#0/1
AGCCCATATCGAACCTAATGAGCTGTCCTATTGGTGAAG
+HWI-EAS443:3:55:571:1866#0/1
aaUQab`aY[OZa_a_aa]^LY`_`_`X__a_a¥a0^¥_W
@HWI-EAS443:3:55:608:1269#0/1
ACTCAATTCAACTTGGGAATCAAAATCAGATTGAAACATG
+HWI-EAS443:3:55:608:1269#0/1
a^____`_^_[]Z^_¥[^V^[_`]]^]W^^_Y_]Y]Z]^
@HWI-EAS443:3:55:612:1415#0/1
ATTCATATCATGCTCCCCCTTGAATGCAGAACCTTCTTC
+HWI-EAS443:3:55:612:1415#0/1
J^¥_XZ[]U¥bb`a¥XY__a^a^_¥R]^]Q¥HW_UR¥W^T
@HWI-EAS443:3:55:749:570#0/1
CAACCCAGAAGCAAGTCTTATACAATCCAGCCCTGTTAG

+HWI-EAS443:3:55:749:570#0/1
a_[abb]aba`¥¥abb[ab^`^Z`a`aa_W__a`]^¥`a`
@HWI-EAS443:3:55:781:1886#0/1
CAGCACCGTCTGGCCAAGACCAACCCACAGTGTCACTGTT
+HWI-EAS443:3:55:781:1886#0/1
a_abaaa]Z`a_a0]`a[¥X[`]Y^__``ROYR_S__W¥
@HWI-EAS443:3:55:794:279#0/1
GCTGGATTGTATAAGACCTTGCTTCTGGGTTGAACTAATC
+HWI-EAS443:3:55:794:279#0/1
a]a`a`aaa^aa`_`_]a__`Zaa^`bbaY`a`bVa`]`Z
@HWI-EAS443:3:55:860:1014#0/1
CACAAAAGGATATGCTGCTCCCGCTAGTCCAGATTGTGTT
+HWI-EAS443:3:55:860:1014#0/1
abbabaabbaabbbbaabaaaa^aa_aT[NS]_aaaGa_a
@HWI-EAS443:3:55:884:1468#0/1
CTGTCTTATCATTAGGGCGTGGATTGTCTCCGAAAATCCC
+HWI-EAS443:3:55:884:1468#0/1
X_b]aaabbb_bbaaba`bababaababb`^__bb`^`W^
@HWI-EAS443:3:55:908:1017#0/1
GTGTTTGTGATAAGGGAACCATTTCATATCATGCTCCCCCT
+HWI-EAS443:3:55:908:1017#0/1
a]a]a`a^__`]__`a]__[_`¥Z^__Z]¥¥X^¥Y^UV¥
@HWI-EAS443:3:55:938:259#0/1
TCCGAAAATCCCCTGCATATGTATCCTATCTGATATTCC
+HWI-EAS443:3:55:938:259#0/1
aa^a_aaa`a]`a__a_aa`aa]`a_¥a]a^a`]__a_^Z
@HWI-EAS443:3:55:947:1419#0/1
TAGTTCTGGATGCTGAACAAAACCTCCCGCTATATCCTGAC
+HWI-EAS443:3:55:947:1419#0/1
``])babaa`a`a_[aaT]``_¥a]a[T``_a[]YX``[Y
@HWI-EAS443:3:55:966:1356#0/1
GACCACTCATTTATTCCTACGATATCTTGCTTTATTGAGA
+HWI-EAS443:3:55:966:1356#0/1
aa[[^a^_¥a`]Y`VY]Y]_^`¥YZ`^YV[`_^]L¥^
@HWI-EAS443:3:56:1058:1984#0/1
GACAAGCACTTGCTGACCAAGCGACTGACTCAAATCTTGA
+HWI-EAS443:3:56:1058:1984#0/1
__abbbabbbbaabb_T^bbbaa``aba[Waabba[abb`
@HWI-EAS443:3:56:1212:553#0/1
CCACTGCATATGTATCCTATCTGATATTCCAGATTCTGGT
+HWI-EAS443:3:56:1212:553#0/1
abbbbbbabbbbaaba_bababaabaabaYab`aa_adWa
@HWI-EAS443:3:56:1236:1749#0/1
TAGCCACTCAATTCAACTTGGGAATCAAATCAGATTGAA
+HWI-EAS443:3:56:1236:1749#0/1
V]`Q[bT_`_ab^ZaKYbaaa_[^aYVUaS`[ab`__b`_
@HWI-EAS443:3:56:1251:1382#0/1
TGCCCCGTAATTTACGAAACCACTGACTGTCCAGCAGC
+HWI-EAS443:3:56:1251:1382#0/1
S__W`a`ba`aaaZa]^a`_a^]`_`b`[``_^_¥]_]_U

@HWI-EAS443:3:56:1260:684#0/1
AAACAATATATTGAGAACACAAGAGTCTGAATGTGCATGT
+HWI-EAS443:3:56:1260:684#0/1
¥`b^¥aa¥b`¥U^a_a_R`[Y^ba_QN_aU_a^abYaaa_
@HWI-EAS443:3:56:1311:1826#0/1
ATTCATATCATGCTCCCCCTTGAATGCAGAACCTTCTTC
+HWI-EAS443:3:56:1311:1826#0/1
abb¥¥0_Z]_abXaaaW[aaaaa[a_`[_aa_`Za`¥_aT
@HWI-EAS443:3:56:1369:583#0/1
CACTCATTATTCTACGATATCTTGCTTTATTGAGAAGT
+HWI-EAS443:3:56:1369:583#0/1
ab_aabbbbbababab_babaa^aa``abaabaaaba``^
@HWI-EAS443:3:56:1453:1235#0/1
GCTTGGTCAGCAAGTGTTCATGATGGCATCAATTGGC
+HWI-EAS443:3:56:1453:1235#0/1
``]`aa_a_`aaa[b`^¥X^_a^^¥a¥¥Z_¥`]`_a^]
@HWI-EAS443:3:56:1456:786#0/1
TGCCTGTCTTATCATTAGGGCGTGGATTGTCTCCGAAAAT
+HWI-EAS443:3:56:1456:786#0/1
ab`Z¥aaabaaaRabb_aa_]¥YS[`a`^U`_Za____`]
@HWI-EAS443:3:56:1473:341#0/1
GGATTTTCGGAGACAATCCACGCCCTAATGATAAGACAGG
+HWI-EAS443:3:56:1473:341#0/1
ab_aaba_ba_aaQa`_]`¥`WYT_¥`_]¥`¥_¥W¥¥¥
@HWI-EAS443:3:56:1514:1111#0/1
CATTTAGCAAGGCCCTTGAGTCAAGAAGAAGTTCTGCA
+HWI-EAS443:3:56:1514:1111#0/1
X^bbbbba_bbbb`_`bbb^P^aaa`aa`ba_`b^ZXbb_Y
@HWI-EAS443:3:56:1678:1040#0/1
AATGCCCTAATTATCACTATGAGGAATGCTCCTGTTATC
+HWI-EAS443:3:56:1678:1040#0/1
aab]R`Z`aa`bbaa___baa¥[IQ[`aa`aY_aa^a_a^
@HWI-EAS443:3:56:1692:1777#0/1
GACCACAAGTGCCTGTCTTATCATTAGGGCGTGGATTGTC
+HWI-EAS443:3:56:1692:1777#0/1
aU]¥a¥a_Q_]FMT_[Na`U`ZU^XX[¥[[aU_[RLY_SS
@HWI-EAS443:3:56:1705:1684#0/1
ACTTGGTCCATCGGTCATTACAGTAAAGCAAGAACCATTT
+HWI-EAS443:3:56:1705:1684#0/1
a¥ab`]Tabaa¥a`Z¥V[¥¥_[b^aa¥S¥`^0¥`[a^]_
@HWI-EAS443:3:56:1734:1712#0/1
GCCATCATGACAAGCACTTGCTGACCAAGCGACTGACTCA
+HWI-EAS443:3:56:1734:1712#0/1
abaa]`aaa_`a`WX]_a___Z`^__Y_¥_YVY¥_`X^_]]
@HWI-EAS443:3:56:20:74#0/1
GATTTTCGGAGACAATCCACGCCCTAATGATAAGACAGGC
+HWI-EAS443:3:56:20:74#0/1
a¥^`¥`abb¥a^`_Y_T^`¥_VTU¥PYXTIIZTWXBBBB
@HWI-EAS443:3:56:256:724#0/1
GGCGTGGATTGTCTCCGAAAATCCCCTGTCATATGTATCC

+HWI-EAS443:3:56:256:724#0/1
abbaabb`abaa]aaaaabbaaa`aaaa`aaaa]a_[_
@HWI-EAS443:3:56:25:1408#0/1
AGCCACTCAATTCAACTTGGGAATCAAATCAGATTGAAA
+HWI-EAS443:3:56:25:1408#0/1
aaaa`aa¥`_a_¥aaaa^`]^`]a]^a```Y`a_aa_a
@HWI-EAS443:3:56:29:748#0/1
CTGTCCAGCAGCAAAGTTGGTGTGCTGATGTAAACATAT
+HWI-EAS443:3:56:29:748#0/1
abWZaV[¥a[Ua_T]aX_ZYGaVOPZ[SGP`Y¥YVQQZUM
@HWI-EAS443:3:56:300:41#0/1
ATCAAAGCGTCATTACTTATGAAAACAACACTTGGGTAAA
+HWI-EAS443:3:56:300:41#0/1
¥T_^_0¥aaa`Z_`]W`Z[_a`a[WW_P]UY)`_XTT^ZQ
@HWI-EAS443:3:56:320:104#0/1
CAGTGTCACTGTTTACACCACAAAAGGATATGCTGCTCCC
+HWI-EAS443:3:56:320:104#0/1
aaa_a`]^`]_b_aaaS^^`_`_`^P¥^Z^`_a_]_`¥YQU
@HWI-EAS443:3:56:326:772#0/1
GTTTGTCAATTTAGCAAGGCCCTTGAGTCAAGAAGAAGGT
+HWI-EAS443:3:56:326:772#0/1
a`aa_V]^aa`aaa_a¥^`^_a``a__SYX¥`¥[]UT[_W
@HWI-EAS443:3:56:335:93#0/1
GCTCATTAGGGTTCGATATGGGCTCCTGTCTTTAATGGTT
+HWI-EAS443:3:56:335:93#0/1
a__¥W`a^a`^X^^a¥_]U_ZU]^`_a_X``_X¥_a^Y]
@HWI-EAS443:3:56:346:1274#0/1
GTAAACAGTGACACTGTGGGTTGGTCTTGCCAGACGGTG
+HWI-EAS443:3:56:346:1274#0/1
aX_YWX`aZ_`^X]¥[(`^YGV^ZVP]PNUXY¥BBBBBBB
@HWI-EAS443:3:56:349:977#0/1
GCCCCGCTAATTTACGGAACCACTGACTGTCCAGCAGCA
+HWI-EAS443:3:56:349:977#0/1
`abbbbaabaaaa`a¥`^aaaa`_a`_a`^`^`^]]¥^Y[
@HWI-EAS443:3:56:386:941#0/1
CTTATACAATCCAGCCCTGTTAGTTCTGGATGCTGAACAA
+HWI-EAS443:3:56:386:941#0/1
ab`bbbbbbbabaaaaaaaaab]^aaaa``a^aa`^a`
@HWI-EAS443:3:56:461:1495#0/1
ATTCATATCATGCTCCCCCTTGAATGCAGAACCTTCTTC
+HWI-EAS443:3:56:461:1495#0/1
aaa¥`a`aabaaaa_a_a]^_Z]^````[_]_aZ_`^`a¥_
@HWI-EAS443:3:56:478:1188#0/1
GAGGAATTGCCCGCTAATTTACGGAACCACTGACTGTC
+HWI-EAS443:3:56:478:1188#0/1
a¥aaaaba`a__a`__a``__[_[_^[_`¥_]_¥__W¥
@HWI-EAS443:3:56:546:490#0/1
TCCCAGTCCATCCGTTCCGATCCCAAATCATCTCAAACC
+HWI-EAS443:3:56:546:490#0/1
Z_ba```abYbbbb`]Sa^W_a¥Z_`aa^[`]^_¥_aaVX

@HWI-EAS443:3:56:635:1000#0/1
ATAACAGACTATCAAGAGTTGGAGAAACAATATATTGA
+HWI-EAS443:3:56:635:1000#0/1
ab]`aabaaaaab`a`^`a¥a___a__aa`¥`_^a__`
@HWI-EAS443:3:56:643:431#0/1
GTCCTGTTTACACCACAAAAGGATATGCTGCTCCCGCTA
+HWI-EAS443:3:56:643:431#0/1
Y``aSVaabb^X¥T¥]XM[_`[Y]Z`a¥V]^R[[aVQP
@HWI-EAS443:3:56:651:661#0/1
GTACAACGGCATAATAACAGACTATCAAGAGTTGGAGA
+HWI-EAS443:3:56:651:661#0/1
aabaaaa`aab`aa`_aaa_a_aa`_`_a_a[a``_``
@HWI-EAS443:3:56:669:968#0/1
GCCCCGTAATTTACGGAAACCACTGACTGTCCAGCAGCA
+HWI-EAS443:3:56:669:968#0/1
UbWbb]Uaa`baKYS¥_Yab`QWWHSS]]aXOR¥aX`aZB
@HWI-EAS443:3:56:689:963#0/1
TGTTATTATGCCGTTGTACTTTAACACAGCCACTGCCCA
+HWI-EAS443:3:56:689:963#0/1
_a`aZ^`TRaa`a_aa]VY_a_aa[a^aa__`__`_]`
@HWI-EAS443:3:56:730:1387#0/1
CAAATCTTGAGTTGTATGGAGAGGGAACCTCACCAATAGG
+HWI-EAS443:3:56:730:1387#0/1
a¥`aaabb^_X]`_`_a_Ua]`Za^`_a_Z`^Va___^X
@HWI-EAS443:3:56:795:1691#0/1
AGCCACTCAATTCAACTTGGGAATCAAAATCAGATTGAAA
+HWI-EAS443:3:56:795:1691#0/1
aaaabaabb`aaa`a^aba_a`_a_a`_a_aa_a`aaaa
@HWI-EAS443:3:56:814:1554#0/1
CAACTGCCTGTCTTATCATTAGGGCGTGGATTGTCTCCGA
+HWI-EAS443:3:56:814:1554#0/1
abbabbaaab`^aaa_P^a`_^_a`_a_a_aa`_`_aX
@HWI-EAS443:3:56:815:1285#0/1
CGAACCTAATGAGCTGTCCTATTGGTGAAGTCCCTCTC
+HWI-EAS443:3:56:815:1285#0/1
``_b`[``abaaY`aa__a_aaaaa`Za¥`_`_^Za`_]
@HWI-EAS443:3:56:852:70#0/1
AGTCGCTTGGTCAGCAAGTGCTTGTTCATGATGGCATCAAT
+HWI-EAS443:3:56:852:70#0/1
ababbabbaa[`abT`ab`aZaba`¥[ab_a]a_a_Z`^a
@HWI-EAS443:3:56:892:1358#0/1
GAAATTCCAATTGTTAGCCAATTGATGCCATCATGACAAG
+HWI-EAS443:3:56:892:1358#0/1
aaaaab_abaaba_aa_aaaa`_`^__^¥`_[a`a]]`_^
@HWI-EAS443:3:56:8:628#0/1
CAACCCACAGTGTCACTGTTTACACCACAAAAGGATATGC
+HWI-EAS443:3:56:8:628#0/1
]U]baa__`_`_X`X_a`[_`^_XZ[]^¥[ZSZ¥¥ZY¥UVP
@HWI-EAS443:3:56:905:360#0/1
CCTATCTGATATTCCAGATTCTGGTTGAAAGACACCCACG

+HWI-EAS443:3:56:905:360#0/1
aaWZa_`__^`_`[NY`]Zbb^YXW^baa_]b¥TU[]
@HWI-EAS443:3:56:924:412#0/1
AAGAGTCTGAATGTGCATGTGTAATGGTTCTTGCTTTAC
+HWI-EAS443:3:56:924:412#0/1
abaaaabababbb_b`X`aaa_ababbaaaaaabaaba`
@HWI-EAS443:3:56:953:1328#0/1
CCCAGTCCATCCGTTCCGATCCCAAATCATCTCAAAACCG
+HWI-EAS443:3:56:953:1328#0/1
aa^]WZbab`a`a_Y[_¥[YL]_^VRIITROX[_Z[]QRU
@HWI-EAS443:3:56:973:1573#0/1
GTAATGACGCTTTGATTGCATGTTTCAATCTGATTTTGAT
+HWI-EAS443:3:56:973:1573#0/1
`_aaabbaaaabaaaaabaaaa_a`a`a_ba_aaaaa`a
@HWI-EAS443:3:57:1024:1727#0/1
ATGAATCCAAACCAAAGATAATAACCATTGGTTCCGGTCT
+HWI-EAS443:3:57:1024:1727#0/1
aabaab`aab^^`aaaa`aa`aa`[[`aaaY`]a]_XW]
@HWI-EAS443:3:57:1052:1236#0/1
GCAAGGTCTTATACAATCCAGCCCTGTTAGTTCTGGATGC
+HWI-EAS443:3:57:1052:1236#0/1
_a_X^Xaaba_aa`_ZQS^_VSXY¥TR^00U[]_ZY¥¥
@HWI-EAS443:3:57:1151:905#0/1
TGCACATTCAGACTCTTGTGTTCTCAATATATTGTTTCTC
+HWI-EAS443:3:57:1151:905#0/1
aa_a_aaaaa__^a_a`_a_```]_]_```a`__`_Ya^
@HWI-EAS443:3:57:1189:852#0/1
GTTCCGATATGGGCTCCTGTCTTTAATGGTTCCATTGGAAT
+HWI-EAS443:3:57:1189:852#0/1
]LWJXOW_[a[[XSP^UUOT_¥XY¥Y]YYXPRRXTKTBB
@HWI-EAS443:3:57:1259:1749#0/1
ATGCAATCAAAGCGTCATTACTTATGAAAACAACACTTGG
+HWI-EAS443:3:57:1259:1749#0/1
_]`¥I^a[`_ZPO]RT``[]X`^aa^¥^`_WH[E¥Q`[[B
@HWI-EAS443:3:57:125:1357#0/1
ATCCCAAATCATCTCAAAACCGTTTCTTGAACATAATGCTT
+HWI-EAS443:3:57:125:1357#0/1
aa`a`^`]]`_aa`_T`]]_[]_`^`^]Z_[^]`_]][]
@HWI-EAS443:3:57:1281:607#0/1
GGGATGTGTTTGTGATAAGGGAACCATTCATATCATGCTC
+HWI-EAS443:3:57:1281:607#0/1
]a^^bb`^]¥b`^^`ba`baa_```aaaabbab`bb`]b`
@HWI-EAS443:3:57:1309:735#0/1
AATGTGCATGTGTAATGGTTCTTGCTTTACTGTAATGAC
+HWI-EAS443:3:57:1309:735#0/1
abab^aabbbaa_a`aba_aaaaa_aaaa^ab_a`aa_
@HWI-EAS443:3:57:1413:514#0/1
GAAATTCCAATTGTTAGCCAATTGATGCCATCATGACAAG
+HWI-EAS443:3:57:1413:514#0/1
U]TZW[¥^^aab]]^[Z¥QWY_Ua`_^_^W[Z]LSXBB

@HWI-EAS443:3:57:148:638#0/1
GGTGTAAACAGTGACACTGTGGGTTGGTCTTGGCCAGACG
+HWI-EAS443:3:57:148:638#0/1
aaY`aaaa_aa¥aUaa[`aSaaaTVa`V^]¥`_TXUUUVB
@HWI-EAS443:3:57:1495:891#0/1
AGTTCCCTCTCCATACAACACTCAAGATTTGAGTCAGTCGCT
+HWI-EAS443:3:57:1495:891#0/1
aaaYKbbbV[U`bab`a`_¥]UXbab^¥MXa`a[Za``
@HWI-EAS443:3:57:1536:1201#0/1
CAAGAAGAAGGTTCTGCATTCCAAGGGGAGCATGATATG
+HWI-EAS443:3:57:1536:1201#0/1
ababbababababbab^_a`[`babbab]abababaabaa
@HWI-EAS443:3:57:1565:1460#0/1
CAAAACCGTTTTCTTGAACATAATGCTTTTAGTTCTCCCTAT
+HWI-EAS443:3:57:1565:1460#0/1
aa¥aa`U`a`a`ab^`a_a_`a`¥`baa`a_a`___Yaaa
@HWI-EAS443:3:57:1577:30#0/1
CAACTCAAGATTTGAGTCAGTCGCTTGGTCAGCAAGTGCT
+HWI-EAS443:3:57:1577:30#0/1
`a_^Y^[D]]baab`a[_]aVZ`V¥a`^^Z`aVV_]QYNY
@HWI-EAS443:3:57:158:1514#0/1
CATTCAAGACTCTTGTGTTCTCAATATATTGTTTCTCCAAC
+HWI-EAS443:3:57:158:1514#0/1
```aaaa\_^aaa[WSaa\_^`\_```a`\_a`a`a`\_`\_`\_¥U  
@HWI-EAS443:3:57:1610:426#0/1  
TGACAAGCACTTGCTGACCAAGCGACTGACTCAAATCTTG  
+HWI-EAS443:3:57:1610:426#0/1  
ab\_^a`a`\_]\_a`^aa\_\_^\_\_\_\_\_]X\_\_^X`X^]\_`V\_``  
@HWI-EAS443:3:57:1610:614#0/1  
GTCTGAATGTGCATGTGTAAATGGTTCTTGCTTTACTGTA  
+HWI-EAS443:3:57:1610:614#0/1  
aa`aaa\_ba]a]^aa`b`\_`\_aa`^a\_a```]aa``X`a\_`  
@HWI-EAS443:3:57:1661:675#0/1  
ATAAGGAACCATTCATATCATGCTCCCCCTTGAATGCA  
+HWI-EAS443:3:57:1661:675#0/1  
abaaabaaaaa[aX^abaa^aa`\_aa\_[\_`^aa`¥^`\_`^a  
@HWI-EAS443:3:57:187:1194#0/1  
CTGGGCCAGAAATTCCAATTGTTAGCCAATTGATGCCATC  
+HWI-EAS443:3:57:187:1194#0/1  
abaa\_bbabbbbbbbabbbabbbbabZ`aabaaa\_aaa  
@HWI-EAS443:3:57:198:217#0/1  
AGCCACTCAATTCAACTTGGGAATCAAAATCAGATTGAAA  
+HWI-EAS443:3:57:198:217#0/1  
aaX``[``PGSaaaHU`a]P]Waa`a\_Y`^]]\_T^a\_W¥[  
@HWI-EAS443:3:57:232:760#0/1  
CAACTGCCTGTCTTATCATTAGGGCGTGGATTGTCTCCGA  
+HWI-EAS443:3:57:232:760#0/1  
]bbb`a``0`aaa^\_baZbbb^W\_^]W[a[a`a^^\_\_\_\_`\_`  
@HWI-EAS443:3:57:255:61#0/1  
ATATGTAAACATCAGCAACACCAACTTTGCTGCTGGACAG

+HWI-EAS443:3:57:255:61#0/1  
`b^ababa\_^aba]aaaa`\_`¥\_Y\_a`ab\_`a\_aaa^WS\_  
@HWI-EAS443:3:57:261:1338#0/1  
GCCAGTTATCCCTGCACACACATGTGATTTCACTAGAATC  
+HWI-EAS443:3:57:261:1338#0/1  
a]`a`\_\_ba¥T\_Zaa\_a^`^aa`a]]\_`\_]\_X^^\_]\_`^  
@HWI-EAS443:3:57:32:438#0/1  
AGCGGGAGTTTTGTTTCAGCATCCAGAACTAACAGGGCTGG  
+HWI-EAS443:3:57:32:438#0/1  
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+HWI-EAS443:3:57:455:1385#0/1  
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aaa`Zaaaa\_\_aa\_aa\_a`\_`\_`\_`\_a^`\_a`\_`\_]\_Y\_`  
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+HWI-EAS443:3:57:63:1870#0/1  
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+HWI-EAS443:3:57:737:1423#0/1  
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a`aYU\_aaaaa`Z`a^aa`\_aaW^`¥V^[U]¥S^XQYM]  
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+HWI-EAS443:3:57:828:1678#0/1  
\_b``\_`^`]a\_^T[[^Y``\_¥P`aVN]¥Y\_^VVNXUT\_UP  
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+HWI-EAS443:3:57:887:1153#0/1  
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+HWI-EAS443:3:57:896:528#0/1  
\_\_Va\_Ya\_`^aN]\_`aZ¥[\_`XVS\_]\_U\_]\_\_]W]¥Z\_]\_U  
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+HWI-EAS443:3:57:931:1341#0/1  
aaaaa`\_\_aaaV\_\_^\_a\_\_¥`^`\_¥`^`\_`^`¥\_\_W¥¥XW  
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\_V[`a][P]aaX\_[W^[[\_aP¥Z¥UZXX[U][XXZXXXUX  
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aa\_aa\_]S]V[^\_a¥\_`¥R`S^T^V¥¥ZZ^\_UU[W¥UW¥^  
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+HWI-EAS443:3:58:1292:65#0/1  
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+HWI-EAS443:3:58:130:950#0/1  
aa`XV\_]aT```aaaVaaaVV^[N[a\_a^]XOZZ]¥Z[  
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+HWI-EAS443:3:58:1426:199#0/1  
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aY\_\_`aaa^^`aa^`[]]W\_\_W¥T`\_\_]]`PWYY]  
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+HWI-EAS443:3:58:1555:535#0/1  
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a`aabaa`ba\_a`a\_]aaaW^aa`\_a^a`a\_\_\_\_\_^

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ababb`bbababbbbaabbbbaaa[aabbabbaa¥a\_`^a\_a  
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+HWI-EAS443:3:58:1748:1378#0/1  
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a`a`^b¥\_aa\_\_a\_aa[\_a` `` `¥PVZ`^aYP]\_\_`\_`Z\_  
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^^^`a\_ba]`aaa]` `]¥ZY[R\_¥¥ZUMSL¥V¥^[\_ZZ[  
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a`a^YaaaV^a¥WZ[ZW\_`a[\_TT¥^[\_¥UU`\_]`\_`\_\_^^  
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aa`\_Z]aaa[a\_\_\_\_¥¥a\_a\_`^V\_¥[Z\_[UOVP^VY^^RX]  
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aab` `ab`babbbbbbabb\_baaabaa`bb]aaaab\_aa  
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+HWI-EAS443:3:58:311:249#0/1  
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aZ^a\_aaa`aaaa^`\_^\_\_\_\_^^U`\_\_\_\_ZWS]]\_Y^Z^Y]  
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a\_aaaa`]^`a^\_aa^\_a¥\_aa^aaa`\_`\_\_\_\_`]¥\_\_\_\_  
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aa`aaaa`abaa`\_\_`a`\_aaa^`X`^^`^X^^^`^^`\_\_`^  
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aaaa`^a^aa`aaa^aa`\_`\_`\_`a^^`\_`\_`\_ZZYU[UUY]  
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H\_[R`¥[\_a`^`\_^bXb¥`^Z^a\_¥WY^^]b`bR``a`a\_  
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+HWI-EAS443:3:59:1557:1264#0/1  
aa\_a\_aa`aa^\_\_a`^a\_\_\_\_`^a^\_aXGR]BBBBBBBBBB  
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+HWI-EAS443:3:59:1721:2009#0/1  
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+HWI-EAS443:3:59:224:376#0/1  
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^Zaa]^Z`Y\_\_aaa````aZ`^`¥Z]^a`[`X`[ZZYSWX  
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a^^Ua¥[]`\_`\_\_Y\_`^\_\_^\_\_\_a[\_a\_]^^\_W\_]\_SZ\_S  
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+HWI-EAS443:3:60:598:1816#0/1  
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¥``ZRW¥^aXa\_Z^\_a\_\_\_ZZZZ[\_¥\_Z]Za[ZVLZFOFX  
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+HWI-EAS443:3:60:646:528#0/1  
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+HWI-EAS443:3:60:689:1088#0/1  
aPY]^``¥b`aR[RZSY[aW]a`Z]^\_N\_U\_\_\_^U^V[]]  
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+HWI-EAS443:3:61:680:2036#0/1  
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+HWI-EAS443:3:61:788:1578#0/1  
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a`]\_#^`\_Y]YX`^\_\_S[[ZRX]R#Z[VUQRUTQUUUVW  
@HWI-EAS443:3:61:943:565#0/1  
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+HWI-EAS443:3:61:943:565#0/1  
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+HWI-EAS443:3:61:947:1247#0/1  
\_`\_UWT[b[WU^Tb\_#\_#a^aa`^Wb[^a\_]\_\_\_\_YYTZY  
@HWI-EAS443:3:61:954:1072#0/1  
CAAAGAGAACAATCTGGACTAGCGGGAGCAGCATATCC  
+HWI-EAS443:3:61:954:1072#0/1  
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GACCACAACCTGCCTGTCTTATCATTAGGGCGTGGATTGTC

+HWI-EAS443:3:61:984:860#0/1  
a\_a\_\_`[Q`V]^``\_a`aa``Z\_\_\_¥RZa\_W[SS[UZUW  
@HWI-EAS443:3:62:1007:846#0/1  
TATAGCGGGAGTTTTGTTTCAGCATCCAGAACTAACAGGGC  
+HWI-EAS443:3:62:1007:846#0/1  
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@HWI-EAS443:3:62:1052:1007#0/1  
CAGGGATAACTGGCATGGCTCGAATCGACCGTGGGTGTCT  
+HWI-EAS443:3:62:1052:1007#0/1  
abba\_\_bZb\_baaaaa`abaXW\_[PSP[X]SR`^BBBBB  
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+HWI-EAS443:3:62:1110:1885#0/1  
M^bab¥bb¥a`abbb`bb`b`bb\_aX`a`aaVaabbbbab  
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+HWI-EAS443:3:62:1158:125#0/1  
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+HWI-EAS443:3:62:1205:611#0/1  
a\_abbab`]aaabb`abaaaaa`\_aa\_^[^aa^Za``a  
@HWI-EAS443:3:62:125:1552#0/1  
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+HWI-EAS443:3:62:125:1552#0/1  
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@HWI-EAS443:3:62:125:1733#0/1  
GTCTCCGAAAATCCCCTGTCATATGTATCCTATCTGATAT  
+HWI-EAS443:3:62:125:1733#0/1  
\_Q^a\_[a¥^Y`UWY\_¥Z[]`a`Z]0\_\_\_]^`^W]HXY\_W  
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+HWI-EAS443:3:62:1312:1177#0/1  
^aabb`\_`\_`baba`abbbaabb]aaaaaba`aaa]aa  
@HWI-EAS443:3:62:133:1704#0/1  
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+HWI-EAS443:3:62:133:1704#0/1  
aWUZ¥Va[\_`a)`¥`YS^Z[P^\_UQLNPZUY\_¥TQQWBB  
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aaT[ST[]`^aRY¥S\_]`\_`\_aYaYNTYO\_]VSW[WU[NLS  
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CAGCAAGTGCTTGTTCATGATGGCATCAATTGGCTAACAAAT  
+HWI-EAS443:3:62:1371:584#0/1  
abbabababababa`bbaabbabaa\_\_aaaa`aa\_\_`aaa  
@HWI-EAS443:3:62:137:741#0/1  
GCCAGAAATTCCAATTGTTAGCCAATTGATGCCATCATGA  
+HWI-EAS443:3:62:137:741#0/1  
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@HWI-EAS443:3:62:1497:512#0/1  
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[`^aaUab`bb`b`aabb]]aabbYbab^aba``a\_``aa  
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+HWI-EAS443:3:62:1544:1711#0/1  
RWV]K]U]\_`\_¥Q\_`\_`bYV]I[[^aa`^a\_`\_Y^ST`ba  
@HWI-EAS443:3:62:1552:1048#0/1  
CAAAATCAGATTGAAACATGCAATCAAAGCGTCATTACTT  
+HWI-EAS443:3:62:1552:1048#0/1  
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@HWI-EAS443:3:62:1590:619#0/1  
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+HWI-EAS443:3:62:1590:619#0/1  
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@HWI-EAS443:3:62:159:586#0/1  
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+HWI-EAS443:3:62:159:586#0/1  
abab`bZbab¥¥\_`^V¥\_bb`baa\_b`aQ``b\_aaaa^a^  
@HWI-EAS443:3:62:1609:229#0/1  
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+HWI-EAS443:3:62:1609:229#0/1  
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+HWI-EAS443:3:62:1708:1045#0/1  
abbbbbbbbaabbaaba`a\_aa`^```\_a\_\_]\_\_U¥¥`  
@HWI-EAS443:3:62:1746:1694#0/1  
GGTGTGGATAGGGAGAACTAAAAGCATTAGTTCAAGAA  
+HWI-EAS443:3:62:1746:1694#0/1  
^J^XU]V[U^VTQW]a[Z]]¥`ZXNPXZW]WLO[P^[¥X  
@HWI-EAS443:3:62:1765:1567#0/1  
AAGCGACTGACTCAAATCTTGAGTTGTATGGAGAGGGAAC  
+HWI-EAS443:3:62:1765:1567#0/1  
VSZSZQZ\_^ab[\_WZ¥``WW]H`WP]``\_ZS¥^X\_```a`  
@HWI-EAS443:3:62:210:1698#0/1  
CGACCGTGGGTGTCTTTCAACCAGAATCTGGAATATCAGA  
+HWI-EAS443:3:62:210:1698#0/1  
abaa``]aaa]`^aaa\_baabab`a`\_aaa\_^Y^\_^]`\_\_  
@HWI-EAS443:3:62:241:28#0/1  
GTTCCCTCTCCATACAACCTCAAGATTTGAGTCAGTCGCTT  
+HWI-EAS443:3:62:241:28#0/1  
aX\_^^V[WVZ[Y]T^VR¥YVHR^YX]]X\_VTRZXUSWTU  
@HWI-EAS443:3:62:264:1857#0/1  
GCTTGGTCAGCAAGTGCTTGTCATGATGGCATCAATTGGC  
+HWI-EAS443:3:62:264:1857#0/1  
^aaa[TX`a^a`\_¥V\_\_^^SU^`\_V]YOXV\_V]]YXUVY  
@HWI-EAS443:3:62:332:920#0/1  
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+HWI-EAS443:3:62:332:920#0/1  
`X`a^WY\_\_YYSR[aYPNJX[a]aXFXa]TFU\_\_`X`ZS^  
@HWI-EAS443:3:62:346:603#0/1  
CGCTAATTTTCACGAAACCACTGACTGTCCAGCAGCAAAG  
+HWI-EAS443:3:62:346:603#0/1  
a`]^\_S^]^^X^W^`S`^[]a^PZ[QY¥[BBBBBBBBBB  
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CTCCTGTCTTTAATGGTTCCATTGGAATGTTTGTCTTTA  
+HWI-EAS443:3:62:370:1285#0/1  
a`aaaa\_aaaaaaaa]\_aa]aa\_WXRU[^aUPRPU^SPR  
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+HWI-EAS443:3:62:460:1493#0/1  
`U¥^\_]aSZ^`¥]^Ya]a\_\_baa`aa[a^MZ][\_Y[[QY  
@HWI-EAS443:3:62:533:685#0/1  
TTTTGTGGTGTAACAGTGACACTGTGGGTTGGTCTTGGC  
+HWI-EAS443:3:62:533:685#0/1  
`a[abY^W¥Y0a\_J¥\_^SZ`a`¥a0QY¥RY\_^R]Y¥[Y\_  
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CAGACATATGTTAACATCAGCAACACCACTTTGCTGCTG  
+HWI-EAS443:3:62:622:196#0/1  
\_`b`abb]bb]babbbbaabbbba`a`````aa`Za\_[a  
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+HWI-EAS443:3:62:68:476#0/1  
Y`S^aYZ¥Uaa¥X¥S]SZbU\_\_JWT^YVRI¥[]YGS¥MSG  
@HWI-EAS443:3:62:727:566#0/1  
CAGGAGCATTCTCATAGTGATAATTAGGGGCATTCATTT  
+HWI-EAS443:3:62:727:566#0/1  
Yaa¥\_\_a\_[a\_a``\_^¥aUaYa\_a`¥S\_¥aa[Xa\_S\_b]]  
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+HWI-EAS443:3:62:772:447#0/1  
ab``abaaa`aaa`aaa`a`\_a\_aa\_\_`\_aZ`¥¥Z\_^¥^  
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AACAGACACTATCAAGAGTTGGAGAAACAATATATTGAGA  
+HWI-EAS443:3:62:799:422#0/1  
a`abaabaaaaaab^bSaaa\_a`^a\_aa`a^\_\_\_\_``[  
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+HWI-EAS443:3:62:872:160#0/1  
a\_aSaa]\_``]X]aa^Z^J^\_¥^W^RY[^\_WM^[QTVLRY  
@HWI-EAS443:3:62:890:106#0/1  
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+HWI-EAS443:3:62:890:106#0/1  
a]`\_\_`Z\_\_a\_]^^^\_[X]ZWWZ^^ZZ^Z]X^ZZZZYY  
@HWI-EAS443:3:62:89:1283#0/1  
GTCCAGCAGCAAAGTTGGTGTGCTGATGTTAACATATGT  
+HWI-EAS443:3:62:89:1283#0/1  
aaab^Waa^]Q^T`X`QW]a^a\_aa`¥\_]¥`^`¥]Y\_]^X

@HWI-EAS443:3:62:907:1539#0/1  
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+HWI-EAS443:3:62:907:1539#0/1  
aabbbaUZW[bb`WI¥Y]]Z]a`a^aaH`aaZS`]a\_H  
@HWI-EAS443:3:62:927:1491#0/1  
CATGTGTAATGGTTCTTGCTTTACTGTAATGACCGATGG  
+HWI-EAS443:3:62:927:1491#0/1  
aabb\_babbab`b`babbaabbaa`aa\_aaaaa`aaaa`  
@HWI-EAS443:3:62:92:430#0/1  
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+HWI-EAS443:3:62:92:430#0/1  
aZbbU]]a^X`a\_^aaa`^[aU`X^¥T\_[Q\_\_[\_¥UU]W[  
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GAAGGTTCTGCATTCCAAGGGGAGCATGATATGAATGGT  
+HWI-EAS443:3:62:955:82#0/1  
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+HWI-EAS443:3:62:965:1586#0/1  
aaaaaaaa\_aaa`X¥`\_`a\_aa`aaa`a`\_`a`\_`\_YU\_\_\_\_  
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+HWI-EAS443:3:62:96:1965#0/1  
^b[abaa[aaaa`a\_X[a]WYa`^ZZT]a`Y[]X]^Y]a`  
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GAAACATGCAATCAAAGCGTACTTATGAAAACAACA  
+HWI-EAS443:3:62:983:382#0/1  
aaaaaaaaaaaa`\_aaa`\_a^`\_`\_`^`^T\_a`\_`\_`\_Z`^`^`  
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GGTTGAAAGACACCCACGGTCGATTCGAGCCATGCCAGTT  
+HWI-EAS443:3:63:1012:1584#0/1  
a`X`[`aa]]aa`¥Y]aaaQV][S^[[^`\_S^¥[[[^^WVW  
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+HWI-EAS443:3:63:1092:1178#0/1  
aaZX`\_aa^a`\_`\_`a\_aaa\_Ua\_a[\_`a[`V[]¥^aS¥¥\_Z  
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+HWI-EAS443:3:63:1123:1225#0/1  
ab`\_`b`¥]abaa^aaaaa^\_`^`\_`abaaaa\_\_aY¥Ya\_  
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+HWI-EAS443:3:63:1138:491#0/1  
a\_^¥aZXPV^¥^Xa]Xb\_S]b]aK[aaUaa`ZaQP^XZ¥N  
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GGCGACCCAAAGAGAACAATCTGGACTAGCGGGAGCAG  
+HWI-EAS443:3:63:1202:1523#0/1  
a^a¥`aa\_aaaa]^]a^`\_`aa`a`[\_V\_a[Z`\_`]UQQWX  
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TGCCCCTAATTATCACTATGAGGAATGCTCCTGTTATCCT

+HWI-EAS443:3:63:1298:1263#0/1  
aa^aaaaabaaaa`a``)`\_\_\_aa\_¥\_a\_`a[\_`]W¥[  
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+HWI-EAS443:3:63:1373:1684#0/1  
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@HWI-EAS443:3:63:1451:818#0/1  
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+HWI-EAS443:3:63:1451:818#0/1  
a¥`\_b^[Xa`b][\_]U]aaa]\_\_a^b`a`aU[aUaaaQ¥\_  
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+HWI-EAS443:3:63:1468:92#0/1  
^`¥b`aaYW`ab`a]¥`aSaa\_a\_a\_[[W\_Y^]a\_\_RW\_  
@HWI-EAS443:3:63:1484:1167#0/1  
CAAATCTTGAGTTGTATGGAGAGGGAACCTCACCAATAGG  
+HWI-EAS443:3:63:1484:1167#0/1  
aabab^babaa`bb`abbbababab``\_aaaa\_aaa```  
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TTTACACCACAAAAGGATATGCTGCTCCCGCTAGTCCAGA  
+HWI-EAS443:3:63:1502:756#0/1  
a`aa\_`a\_`\_`\_\_a^a]`a`a\_a]``\_Y]\_]^Z^\_X[V\_]`  
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+HWI-EAS443:3:63:1599:1230#0/1  
`aaa^\_bT\_`aaZ]\_a```YXYa]`a`aYaYXW`VT\_0^^  
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AAGACACCCACGGTCGATTCGAGCCATGCCAGTTATCCCT  
+HWI-EAS443:3:63:1606:1852#0/1  
aa\_`^aa^`a`\_\_SV\_S`\_WV^VQ¥^]GGVSVG\_\_BBBBB  
@HWI-EAS443:3:63:1622:490#0/1  
GCCACTCAATTCAACTTGGGAATCAAAATCAGATTGAAAC  
+HWI-EAS443:3:63:1622:490#0/1  
a\_abaa``\_aaa\_``aaba\_aaWa\_`a`\_\_aa\_a\_a`  
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CAAGAGTCTGAATGTGCATGTGTAAATGGTTCTTGCTTTA  
+HWI-EAS443:3:63:1653:730#0/1  
aaa¥\_``^`^aZ¥S¥Z`\_VV^]`aba`Z[a]`a^]]ab¥  
@HWI-EAS443:3:63:170:1029#0/1  
CGCTAGTCCAGATTGTGTTCTCTTTGGGTCGCCCTCTGAT  
+HWI-EAS443:3:63:170:1029#0/1  
a`ab`Y]abab`aa¥¥a`aaaaaaaa`R\_X^Ya`\_\_`][  
@HWI-EAS443:3:63:1754:46#0/1  
CACTCATTTATTCTACGATATCTTGCTTTATTGAGAAGT  
+HWI-EAS443:3:63:1754:46#0/1  
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ab^]]b`\_Z]bba^YUVa`^a^`]]aa¥¥YS¥[^[TX^^\_



@HWI-EAS443:3:63:220:570#0/1  
CCCCTAATTACTACTATGAGGAATGCTCCTGTTATCCTGA  
+HWI-EAS443:3:63:220:570#0/1  
\_aaaaaaaaa`a`aaa`\_W][`\_]\_\_a[Z\_a\_\_\_Z]^  
@HWI-EAS443:3:63:235:731#0/1  
GACCAACCCACAGTGTCACTGTTTACACCACAAAAGGATA  
+HWI-EAS443:3:63:235:731#0/1  
Zabaa\_a¥]^`b[\_`\_WW\_a`Ua[``\_]``TX`YYO\_`Z¥  
@HWI-EAS443:3:63:240:819#0/1  
GAACCATTTACACATGCACATTCAGACTCTTGTGTTCTCA  
+HWI-EAS443:3:63:240:819#0/1  
[¥ab```bbbbbbaa`\_Y\_aaaa\_a^baaaaa\_V]^aa[R  
@HWI-EAS443:3:63:250:197#0/1  
CAAATCTTGAGTTGTATGGAGAGGGAACCTCACCAATAGG  
+HWI-EAS443:3:63:250:197#0/1  
a`S\_aaaaa\_baaa\_aaba¥a\_aa`^Y¥`\_]¥`^`\_`Z  
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AGTTCAACCCAGAAGCAAGGTCTTATACAATCCAGCCCTG  
+HWI-EAS443:3:63:250:445#0/1  
Z\_b`bbabbbZbaa\_`aK\_a\_bbbbbUbbbaabb\_aaaaa  
@HWI-EAS443:3:63:259:1059#0/1  
ACTGACTGTCCAGCAGCAAAGTTGGTGTGCTGATGTTAA  
+HWI-EAS443:3:63:259:1059#0/1  
aaaaaaaaY``]¥]YSYSZV]R[WXT¥[XZNTTY][UO  
@HWI-EAS443:3:63:389:16#0/1  
GTGGGATTTTCGGAGACAATCCACGCCCTAATGATAAGAC  
+HWI-EAS443:3:63:389:16#0/1  
aa```Z\_aaaaba^a^]VY^`]^`^`\_`[¥^[^^Z^[[\_[B  
@HWI-EAS443:3:63:404:480#0/1  
TTCAAATACGGCAATGGTGTGTTGGATAGGGAGAACTAAAA  
+HWI-EAS443:3:63:404:480#0/1  
aaa¥`aaa\_aaa\_\_`a¥HZ]``[`W¥X¥Z^X^^\_LZ^¥\_`  
@HWI-EAS443:3:63:412:1539#0/1  
ATCAAAGCGTCATTACTTATGAAAACAACACTTGGGTAAA  
+HWI-EAS443:3:63:412:1539#0/1  
^aba^aab``aa``[`aaa^`^b¥a^^^a^a`TIVR``[  
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GGGCCTTGCTAAATGACAAACATTCCAATGGAACCATTAA  
+HWI-EAS443:3:63:442:333#0/1  
a\_aa\_a`a\_aaX\_aa\_\_a`X``\_\_a\_`^`^`^`[^\_]`  
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ACTTTAACACAGCCACTGCCCCATTGTCTGGGCCAGAAAT  
+HWI-EAS443:3:63:445:1622#0/1  
`¥b`[ab`aba^babb\_`a\_`][a¥¥Va^YRZYBBBBBBB  
@HWI-EAS443:3:63:470:813#0/1  
CTGGGCCAGAAATTCCAATTGTTAGCCAATTGATGCCATC  
+HWI-EAS443:3:63:470:813#0/1  
aa`^`babb]ab`abbaabaa`aaaaaaaa]a``a\_\_a[`  
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@HWI-EAS443:3:63:863:1767#0/1  
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+HWI-EAS443:3:63:863:1767#0/1  
^bbabbabb\_aabaababbabbbbaabbaabbaba`S]  
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+HWI-EAS443:3:63:898:488#0/1  
aa`ba¥¥^¥X^`]WXaaaa¥WMXR^[Z\_^^QV]QRQ\_\_` [  
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+HWI-EAS443:3:63:947:1432#0/1  
\_b^bbbbb`abbbaabaa\_aba^abaaaaab\_aaa]Z\_`  
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+HWI-EAS443:3:63:952:205#0/1  
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a]a[R\_WZ\_bYQ¥a]aaaa[^¥YV]Xaa\_P\_YSYZZSVU^  
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+HWI-EAS443:3:64:1133:1227#0/1  
a`aab\_aaa\_a[aTa^^¥aaa\_a\_`a\_[\_\_]^]\_\_^¥¥[¥  
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+HWI-EAS443:3:64:1158:1140#0/1  
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+HWI-EAS443:3:64:1195:1437#0/1  
aaa``aaaaa\_[]aa\_[aYa\_a]M````\_[aa^¥`a`\_\_  
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+HWI-EAS443:3:64:1201:249#0/1  
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+HWI-EAS443:3:64:120:723#0/1  
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+HWI-EAS443:3:64:1230:875#0/1  
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CGACCGTGGGTGTCTTTCAACCAGAATCTGGAATATCAGA  
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+HWI-EAS443:3:64:1567:1027#0/1  
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a\_aaaa¥baaa\_aa\_W\_¥XY``\_`¥\_^`¥J¥^Z[U^¥¥W  
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+HWI-EAS443:3:64:302:903#0/1  
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+HWI-EAS443:3:64:342:1500#0/1  
aaaaa\_`aa`aa^\_aaaa\_a`U¥X¥a\_]\_^`\_^a\_\_\_\_  
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ATCAGATTGAAACATGCAATCAAAGCGTCATTACTTATGA  
+HWI-EAS443:3:64:468:1901#0/1  
`ab`a\_X\_ab``Y]\_¥`a`a^ZY`WW\_\_`\_T]\_a[¥]  
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CTAAAAGCATTAGTTCAAGAAACGGTTTTGAGATGATTTG  
+HWI-EAS443:3:64:563:1067#0/1  
aaa`ababbba¥^aaaa\_XYY^baa^aab`\_`^]]¥a`\_`  
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CAAATCTTGAGTTGTATGGAGAGGGAACCTCACCAATAGG  
+HWI-EAS443:3:64:563:474#0/1  
R¥Z^`\_`bb]TZ]\_\_W[\_aab\_^Ia]Jaa`Y\_^QVb\_`[b  
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+HWI-EAS443:3:64:923:1560#0/1  
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aaaa\_`aaaaaa\_aaa¥][`^`a\_a^a\_aaa`Z^`\_`a  
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+HWI-EAS443:3:65:1053:1512#0/1  
aabaa`a`a`\_aaaaaaaa`\_`\_ab`abaa`a\_``[\_`\_`  
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TACTTGTCAATGGTAAATGGCAACTCAGCACCGTCTGGCC  
+HWI-EAS443:3:65:1068:1536#0/1  
aaabaa^bbaaa`¥aaaS``[aa\_aa]\_`a\_]¥a¥\_W¥]  
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+HWI-EAS443:3:65:1068:788#0/1  
a¥ab`bbba^^¥aabaaaa`Z\_\_aaaa\_`^]]Ya]^\_^  
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+HWI-EAS443:3:65:1137:526#0/1  
abb^babb`aaa`aaaa`a`aab`aaaaa¥aaa\_\_\_`a`  
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+HWI-EAS443:3:65:1203:123#0/1  
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+HWI-EAS443:3:65:122:1568#0/1  
a]\_baa[````aa\_^S\_^`\_\_\_a\_VTV]^Y^^ZV]X]]UU  
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¥WW]aW`[P]^]PY\_a\_a`¥\_`\_]`\_`\_]a[`\_`¥X][  
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^¥OW`a^J\_S\_b\_T\_V\_^V\_[ba`]`a[aa^T[V]`]Ua^  
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+HWI-EAS443:3:65:1303:1376#0/1  
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+HWI-EAS443:3:65:1322:1521#0/1  
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+HWI-EAS443:3:65:1334:552#0/1  
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+HWI-EAS443:3:65:1450:1298#0/1  
aaa`\_baa`aa\_b\_a^^ba\_Y^a¥Ya`aYa]``W]\_]¥W  
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+HWI-EAS443:3:65:1467:314#0/1  
^^[Z`[\_^WZRU]S[]`\_¥ZD^`Qa]aa[]LZY\_\_[[U  
@HWI-EAS443:3:65:1500:59#0/1  
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+HWI-EAS443:3:65:1500:59#0/1  
`a\_Y\_\_\_\_]¥`RNW`]\_bab\_^`V\_aX``a^\_\_aVLV¥NXX  
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+HWI-EAS443:3:65:1532:791#0/1  
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+HWI-EAS443:3:65:1571:268#0/1  
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\_\_\_\_]`aaa[\_ab\_abbaaba\_¥]aa\_]X]a]L^a\_Z^X\_¥  
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+HWI-EAS443:3:65:225:756#0/1  
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a`ba`a\_aaaaaba^a^W`\_¥^\_\_^^\_]\_a^^\_]^^  
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+HWI-EAS443:3:65:302:581#0/1  
aaaaa`]aaaa`a\_\_a`aaa\_`aZ^aa\_Y\_\_`^]`^¥^^RZ  
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¥[¥aa`bYbT`]Q]b`^a`a^]a`^`^`^\_]`\_\_`\_]\_aZZX  
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+HWI-EAS443:3:65:554:1821#0/1  
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+HWI-EAS443:3:65:569:174#0/1  
a\_b\_a\_baaa^a`\_\_\_`a]^a\_`\_`\_a\_\_^`]\_\_]a^^]  
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aUZ\_OTa\_``YL¥a¥\_a`V]GUXTP]aYKZX\_\_\_¥Z^YT\_  
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GTTTGGATAGGGAGAACTAAAAGCATTAGTTCAAGAAACG  
+HWI-EAS443:3:65:600:1480#0/1  
\_]^^`^^`]RLY^]b`][`a`\_`^]aa\_¥`\_¥YT]a\_]`  
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+HWI-EAS443:3:65:600:780#0/1  
aa\_a\_ba]aaa^a`^^`^`aZ¥\_`¥¥\_`W\_`\_\_]\_\_\_`\_¥\_  
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+HWI-EAS443:3:65:64:1899#0/1  
aaaa\_\_aa¥\_\_\_`a\_\_`XZ`]QS\_]Q¥]¥¥¥SVSV^\_W¥



@HWI-EAS443:3:65:683:1800#0/1  
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@HWI-EAS443:3:65:707:1812#0/1  
GACGATACTGGACCACAACCTGCCTGTCTTATCATTAGGGC  
+HWI-EAS443:3:65:707:1812#0/1  
¥abbbabb\_Y\_\_abbaaaba`ba]]]b`bbaaaaaa]\_`a  
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GTCTCCGAAAATCCCCTGCATATGTATCCTATCTGATAT  
+HWI-EAS443:3:65:712:167#0/1  
aaYa`aaaaa`\_\_^`]Za\_^\_^`^`^\_Z]^^^\_^\_^]  
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a`Z`[^a`a\_`[^`aWa^\_^\_]Y`\_`\_]`\_\_[\_]^Y]]]  
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+HWI-EAS443:3:65:758:1533#0/1  
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+HWI-EAS443:3:65:798:943#0/1  
aaba¥Q^`a]T^`aa`aa`\_`\_`\_`\_]^`^`¥\_\_\_\_\_`  
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GTTCGGATCCCAAATCATCTCAAACCGTTTCTTGAACATA  
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a[\_a`\_`¥¥\_\_\_^]^^\_]^^^[\_^]W]]XZYXWT[XXYYX  
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]H\_Z\_\_^a`S]]^\_¥a`V¥Y]X^aaaX]a`^^[P]¥VZ¥`  
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+HWI-EAS443:3:65:952:134#0/1  
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+HWI-EAS443:3:66:1099:990#0/1  
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+HWI-EAS443:3:66:1183:331#0/1  
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+HWI-EAS443:3:66:1343:551#0/1  
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a^Q]aa`aa`aa\_^`\_`aYW¥`\_^\_]¥]Y\_^\_W]^  
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+HWI-EAS443:3:66:135:316#0/1  
aa`[abbaaaaa\_]a]``a\_`````\_\_`\_aY\_\_`\_^`^X  
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+HWI-EAS443:3:66:1376:1973#0/1  
aa`\_^a`\_[ab^aabbbaa`aa\_b][V`aa[\_`\_N`\_\_[\_Q  
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+HWI-EAS443:3:66:1442:646#0/1  
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a\_\_b\_a`a`ba\_\_]abaaa^`a]\_``\_`¥\_`\_\_`\_\_^Y  
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+HWI-EAS443:3:66:1648:487#0/1  
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ab]aabbabaW\_ab^S¥\_]^\_aW`aW\_¥V`\_Z\_R``¥]\_  
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+HWI-EAS443:3:66:172:1269#0/1  
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+HWI-EAS443:3:66:1758:1310#0/1  
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ab[ab¥[a]a\_\_a^]]\_bb^`Ya^\_a¥¥^a`a^a]^\_]X  
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+HWI-EAS443:3:66:552:1458#0/1  
a\_]\_\_W\_]a`^`^\_\_a\_^`\_]a¥]U\_]\_]^^¥Y]]]]][  
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a`aa`]a\_X\_W`aUa``\_]][YX]^]\_\_\_^^ZV¥^[WV[  
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+HWI-EAS443:3:66:644:397#0/1  
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+HWI-EAS443:3:66:679:581#0/1  
^M[aaaa`a¥aR`\_`\_`V\_a\_¥]`]W\_T\_^`\_^`^Z\_]T  
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+HWI-EAS443:3:66:725:743#0/1  
`\_aa^a^`baaa^`a^]]\_aaaa`aaa^```a\_`aa\_\_\_[  
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+HWI-EAS443:3:66:733:1793#0/1  
a`^a]a\_a\_¥^^a`^a\_a`¥\_`\_]\_`\_]\_\_^]\_]\_^Z]WZZ

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aaa`a``\_\_a``^^[¥`^\_P]`XW^¥`¥^¥^\_`ZUZVVZ¥  
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¥ba`aaab`ab^b¥]aba\_\_`abb`abaa`a\_`a\_`\_`a`  
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+HWI-EAS443:3:66:806:1498#0/1  
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CGATACTGGACCACAACCTGCCTGTCTTATCATTAGGGCGT  
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aa^abaaaa\_a`aaW```a`a`\_\_`\_`¥[\_\_^`¥V\_\_^¥  
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+HWI-EAS443:3:66:907:1368#0/1  
\_]\_^Z^]\_]^[]]\_Z[``]aaa```a¥Z```]¥a`\_]`  
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CCAGATTCTGGTTGAAAGACACCCACGGTCGATTCGAGCC  
+HWI-EAS443:3:66:939:1477#0/1  
G^¥\_¥\_^\_b^]\_]``a`bbba```b^\_]¥¥]]\_W\_\_X``b  
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+HWI-EAS443:3:67:1082:1201#0/1  
ab]\_abaaa```¥\_`MP[`UU\_¥\_`UMX¥¥¥QY`UX[VT  
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+HWI-EAS443:3:67:1103:1052#0/1  
a\_\_a\_``T]]\_a\_\_\_`¥^VZ\_\_^]^^Y]]XX\_WWRKKVLZ  
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+HWI-EAS443:3:67:1151:195#0/1  
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+HWI-EAS443:3:67:1232:868#0/1  
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+HWI-EAS443:3:67:1330:1616#0/1  
a`[\_`b^`aaaa]aW\_[X]\_`\_`\_T]a`^^a`a¥^]W]VYV  
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+HWI-EAS443:3:67:1394:1737#0/1  
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+HWI-EAS443:3:67:1524:1033#0/1  
¥`^]a`\_YbabaX^Z\_Z]aaa`a[^`^a¥`¥^`\_]¥SJ  
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\_`ba`ab^]aab\_QRYZ¥[SSY\_[UOVOSUXRRHKPFZM  
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aa`a]Xa\_aaa`a`\_`a\_\_`a`````^`^a`^`aYY\_`\_`Y  
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aaa\_\_b`aaaa`aa\_\_a^a\_a\_]`^a^`\_\_XT`\_a\_Za`  
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+HWI-EAS443:3:67:1677:245#0/1  
aaaaab\_W`\_`\_`YVY`\_\_a\_[b\_\_`a`a\_\_[Wa¥[U[Z  
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+HWI-EAS443:3:67:1679:1797#0/1  
a`^^^`\_b`ba``baa^X`ZZ`a\_]`^Y^^a\_R\_YT¥¥¥T  
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abbXS]b)`aZa`ba\_aabVYQQZa`aXU\_N]`ZV\_\_T  
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+HWI-EAS443:3:67:304:976#0/1  
a\_aa`\_\_`U\_WX]`Z\_\_aa\_W\_a`]Z]X`]X]V`\_\_\_\_  
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aaabba]a\_aa\_a`)\_a`aaa`\_\_^\_aZ[]^\_\_\_\_`\_`\_`]  
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+HWI-EAS443:3:67:355:302#0/1  
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+HWI-EAS443:3:67:362:1162#0/1  
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+HWI-EAS443:3:67:406:947#0/1  
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@HWI-EAS443:3:67:536:223#0/1  
ATTCATATCATGCTCCCCCTTGAATGCAGAACCTTCTTC  
+HWI-EAS443:3:67:536:223#0/1  
\_abbbaabaaa]a^^aa\_\_`a`\_\_`]aZ^\_\_\_\_]]^^S[V[  
@HWI-EAS443:3:67:561:907#0/1  
TATGAATGGTCCCTTATGACAAACACATCCCCCTTGGAA  
+HWI-EAS443:3:67:561:907#0/1  
aaZU\_aP][`aab]\_\_YV`]Zaaaa^]W[a^I\_^]TQ\_`  
@HWI-EAS443:3:67:602:850#0/1  
AAATACGGCAATGGTGTGGATAGGGAGAACTAAAAGCA  
+HWI-EAS443:3:67:602:850#0/1  
]`bbbbabb`X^b\_XaU`abaZ`a\_ZZT[a][]Z`^¥V`  
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GCCCCGTAATTTACGGAAACCACTGACTGTCCAGCAGCA  
+HWI-EAS443:3:67:640:773#0/1  
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@HWI-EAS443:3:67:658:671#0/1  
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+HWI-EAS443:3:67:658:671#0/1  
]]aba^`a`\_b\_]a`b]¥Ja\_Za\_Xa``a\_\_XWJY\_aaG[  
@HWI-EAS443:3:67:706:1234#0/1  
AGTCGCTTGGTCAGCAAGTGCTTGTGCATGATGGCATCAAT  
+HWI-EAS443:3:67:706:1234#0/1  
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ATCAAAGCGTCATTACTTATGAAAACAACACTTGGGTAAA  
+HWI-EAS443:3:67:720:900#0/1  
aaaaYT\_`a]`aaa`aa\_aa```\_`a`\_\_\_\_^^^\_]Y``\_  
@HWI-EAS443:3:67:768:138#0/1  
GCCCCGTAATTTACGGAAACCACTGACTGTCCAGCAGCA  
+HWI-EAS443:3:67:768:138#0/1  
\_[[¥a`^`^`]X]Z^^][[VZ¥^YSUYS[[QSUUW[V  
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ACCAGAATCTGGAATATCAGATAGGATACATATGCAGTGG  
+HWI-EAS443:3:67:785:1034#0/1  
abbbbaababa]bbbaaab\_aa]\_\_`aY\_\_`\_\_\_\_[MS^\_  
@HWI-EAS443:3:67:801:1906#0/1  
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+HWI-EAS443:3:67:801:1906#0/1  
a\_\_U`UUZ`Z¥^UNRTSZNUOUS[HZTXFZ\_TRNRXXY^X  
@HWI-EAS443:3:67:809:867#0/1  
ATCAAATCAGATTGAAACATGCAATCAAAGCGTCATTAC  
+HWI-EAS443:3:67:809:867#0/1  
aabba¥`aaaa`ababaabaaaaaa\_aa`a`a]a```a`



@HWI-EAS443:3:67:839:982#0/1  
ATTGTATAAGACCTTGCTTCTGGGTTGAACTAATCAGAGG  
+HWI-EAS443:3:67:839:982#0/1  
abbaaaabbaabbaaab`aaa\_^^^aaabaaa\_a`aa`\_\_  
@HWI-EAS443:3:67:855:1595#0/1  
AGACTCTTGTGTTCTCAATATATTGTTTCTCCAACCTCTTG  
+HWI-EAS443:3:67:855:1595#0/1  
a]`a\_a\_^¥Y\_\_`^`a``\_\_\_`a\_]\_a\_^¥\_^^T^]\_YO  
@HWI-EAS443:3:67:857:561#0/1  
TCCGAACGGATGGACTGGGACAGACAATAACTTCTCAATA  
+HWI-EAS443:3:67:857:561#0/1  
abb``bbbbaaba``abab\_a\_a\_]`\_aaa`\_^X`a\_a\_a  
@HWI-EAS443:3:67:870:1670#0/1  
ACGGTTTTGAGATGATTTGGGATCCGAACGGATGGACTGG  
+HWI-EAS443:3:67:870:1670#0/1  
aaa]Oaaa`Ua\_\_ZQ`aa[M¥Y\_\_`[^]`\_\_`^^¥WVX]\_  
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CCACTGCCCCATTGTCTGGGCCAGAAATCCAATTGTTAG  
+HWI-EAS443:3:67:998:183#0/1  
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@HWI-EAS443:3:68:1061:269#0/1  
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+HWI-EAS443:3:68:1061:269#0/1  
abb`abbabb]bababbbbabbbabaa`baabbaaX]`a  
@HWI-EAS443:3:68:1068:840#0/1  
GAAATCCCCTGATATGTATCCTATCTGATATTCCAGA  
+HWI-EAS443:3:68:1068:840#0/1  
IR¥¥`b^¥¥b¥`]PT\_bab\_`¥[¥[b^Y^ab¥^Y`]L[a]  
@HWI-EAS443:3:68:1078:593#0/1  
AGACGATACTGGACCACAACCTGCCTGTCTTATCATTAGGG  
+HWI-EAS443:3:68:1078:593#0/1  
abaaaa`\_Z^`a^V\_``¥¥R¥0[X¥T]`]X]XZ]]V¥^¥  
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GCCCCTAATTATCACTATGAGGAATGCTCCTGTTATCCTG  
+HWI-EAS443:3:68:1079:1660#0/1  
Y`abbb`abbb`bb`babbaaabba\_aab^aa`aaa¥]^a  
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+HWI-EAS443:3:68:1142:1672#0/1  
a`VUF]UP¥ZWSLV¥]T¥RVKKWMMHRY¥[]`BBBBBBBB  
@HWI-EAS443:3:68:115:1323#0/1  
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+HWI-EAS443:3:68:115:1323#0/1  
aaaa`\_[a^aa`a\_`a\_S`^\_a`\_``a\_\_`\_^\_^[]^X  
@HWI-EAS443:3:68:1177:625#0/1  
AATCAAAGCGTCATTACTTATGAAAACAACACTTGGGTAA  
+HWI-EAS443:3:68:1177:625#0/1  
PTX^`\_^T`^^\_¥[NX^PX]^¥[YZXY^^S]^P]]^)[¥  
@HWI-EAS443:3:68:1188:764#0/1  
AAGATATCGTAGGAATAAATGAGTGGTCAGGATATAGCGG  
+HWI-EAS443:3:68:1188:764#0/1  
abaaaaaa`]aaaaaaaaaaaa]aa]\_]aa]````\_\_a  
@HWI-EAS443:3:68:1206:1281#0/1  
ATTGGCTAACAAATTGGAATTTCTGGCCCAGACAATGGGGC  
+HWI-EAS443:3:68:1206:1281#0/1  
aa]]^]\_]^^^a`aa]^Y]]ZV\_PZ\_Z¥T¥B  
@HWI-EAS443:3:68:1213:160#0/1  
GAAAGACACCCACGGTCGATTCGAGCCATGCCAGTTATCC  
+HWI-EAS443:3:68:1213:160#0/1  
aababaaaaaaaaaa¥[\_WZ¥Y]Z\_^^^[^TU`T^[WRR  
@HWI-EAS443:3:68:1216:729#0/1  
CACCAATAGGACAGCTCATTAGGGTTTCGATATGGGCTCCT  
+HWI-EAS443:3:68:1216:729#0/1  
\_¥bb`V``a``]a`a¥¥`aaaabb¥¥a`[\_[\_]`a¥  
@HWI-EAS443:3:68:1224:855#0/1  
GGGCTCCTGTCTTTAATGGTTCCATTGGAATGTTTGTTCAT  
+HWI-EAS443:3:68:1224:855#0/1  
a]J\_a\_V^bQPUR]Z`P][`SHWJU¥NNLT[`QY^XH]VV  
@HWI-EAS443:3:68:1226:767#0/1  
GTCAGGATATAGCGGGAGTTTTGTTTCAGCATCCAGAACTA  
+HWI-EAS443:3:68:1226:767#0/1  
a\_``aa`aaaa^aa`[`KZa`VUYS]\_¥\_]Z]\_]\_W\_^  
@HWI-EAS443:3:68:1301:1496#0/1  
GCAGAACCTTCTTCTTGAAGGGCCTTGCTAAATGA  
+HWI-EAS443:3:68:1301:1496#0/1  
``ZYFWV¥a^aa[a]a\_^^`aWY][^aV]ZWR[]QV\_\_¥  
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CAGGAGCATTCTCATAGTGATAATTAGGGGCATTCATTT  
+HWI-EAS443:3:68:1302:274#0/1  
abbbbb`bbba`bbbbbbababbabbbbaabaaba`abba  
@HWI-EAS443:3:68:1304:121#0/1  
GTTTCGATCCCAAATCATCTCAAACCGTTTCTTGAACCTA  
+HWI-EAS443:3:68:1304:121#0/1  
YY^]]bVaa`^ZaY^a[X\_YWVaWH\_X^M^¥^YN¥[X\_]`  
@HWI-EAS443:3:68:137:851#0/1  
CTCCTGTCTTTAATGGTTCCATTGGAATGTTTGTTCATTTA  
+HWI-EAS443:3:68:137:851#0/1  
abbbbaaYbabbb\_aa]`aab]aa`^]`a``aaa^`X`a`\_  
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ATGCAATCAAAGCGTCATTACTTATGAAAACAACACTTGG  
+HWI-EAS443:3:68:1381:686#0/1  
abbababaaaaa`\_`aaaaaa`baaaaa^a`\_a`\_`a`

@HWI-EAS443:3:68:1389:1744#0/1  
GAGGAATTGCCCGCTAATTTACGGAAACCACTGACTGTC  
+HWI-EAS443:3:68:1389:1744#0/1  
aaababa^aa`\_a`\_a\_\_\_\_\_^^`a¥\_\_\_¥\_¥^`^^U]¥  
@HWI-EAS443:3:68:1393:1647#0/1  
CTGGGACAGACAATAACTTCTCAATAAAGCAAGATATCGT  
+HWI-EAS443:3:68:1393:1647#0/1  
abbbabbabaabbbbbabaaaabaabba\_abaaaaba\_a^  
@HWI-EAS443:3:68:1437:378#0/1  
ATCAAATCAGATTGAAACATGCAATCAAAGCGTCATTAC  
+HWI-EAS443:3:68:1437:378#0/1  
ab`abaaba`b`aaaaaaaaaab¥a\_aa`a\_a\_\_\_a\_a\_  
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+HWI-EAS443:3:68:1450:528#0/1  
a]aaaV^^¥V^[`XWX¥a` `] `[RZVPMZ¥]`W]NKVW  
@HWI-EAS443:3:68:1483:1413#0/1  
ACGATATCTTGCTTTATTGAGAAGTTATTGTCTGTCCCAG  
+HWI-EAS443:3:68:1483:1413#0/1  
a]`\_\_`a`\_``\_aa`a`a^a\_^a^`\_`\_]Z`YBBBBBB  
@HWI-EAS443:3:68:1504:168#0/1  
CGATACTGGACCACAACCTGCCTGTCTTATCATTAGGGCGT  
+HWI-EAS443:3:68:1504:168#0/1  
`babbabaaa^aa]aa`aZ]aaa\_aaaaUa`a`a¥\_Y\_Q  
@HWI-EAS443:3:68:1706:698#0/1  
GTTTGTGCATAAGGGAACCATTTCATATCATGCTCCCCCTTG  
+HWI-EAS443:3:68:1706:698#0/1  
aaabba`babaab\_\_a`^aaa\_aaaa`a`\_a`]`\_]aa`  
@HWI-EAS443:3:68:202:1631#0/1  
CATATGTTAACATCAGCAACACCAACTTTGCTGCTGGACA  
+HWI-EAS443:3:68:202:1631#0/1  
a\_K`Za`\_`V`Xaa¥aWP^a]¥FSQ\_^TW¥\_`U^Y^\_Y  
@HWI-EAS443:3:68:212:124#0/1  
CAGACATATGTTAACATCAGCAACACCAACTTTGCTGCTG  
+HWI-EAS443:3:68:212:124#0/1  
aaaaaYaaaa`aaaa`\_a`\_``[a`\_X^]^^^`\_\_\_Y]^  
@HWI-EAS443:3:68:242:1546#0/1  
CCGCTAATTTACGGAAACCACTGACTGTCCAGCAGCAAA  
+HWI-EAS443:3:68:242:1546#0/1  
abYbaa`aaaaaaaa\_ab`]aaa`a`¥SV`¥\_ZWOROY]H  
@HWI-EAS443:3:68:257:612#0/1  
TGTCTGGCCAGAAATCCAATTGTTAGCCAATTGATGCC  
+HWI-EAS443:3:68:257:612#0/1  
^WYZP]]SV¥Z^U¥W^[V]\_W]^Y\_a]ZW]\_\_\_ZUSU^\_]`  
@HWI-EAS443:3:68:281:2006#0/1  
AGCCACTCAATTCAACTTGGGAATCAAATCAGATTGAAA  
+HWI-EAS443:3:68:281:2006#0/1  
a`abb\_^`a`\_``\_`a`\_`\_`[¥`a^`a`\_`\_`^`\_`^^`\_`\_`  
@HWI-EAS443:3:68:287:1036#0/1  
CATATGTTAACATCAGCAACACCAACTTTGCTGCTGGACA

+HWI-EAS443:3:68:287:1036#0/1  
a¥\_V^aab`bbbaaa``a`S]aab`a¥aaa][Xaa`X`X  
@HWI-EAS443:3:68:332:388#0/1  
AGTGGTTTCCGTGAAATTAGCGGGCAATTCCTCTCTCTGC  
+HWI-EAS443:3:68:332:388#0/1  
``W``^aaaa`Z\_\_\_\_\_`a^^`\_`\_]¥^`\_`\_`¥¥\_\_[¥^`  
@HWI-EAS443:3:68:347:462#0/1  
CGAATCGACCGTGGGTGTCTTTCAACCAGAATCTGGAATA  
+HWI-EAS443:3:68:347:462#0/1  
aab\_a`a`b\_0[\_`PYTXZba^W\_]a\_S`\_¥U\_]T^OQ  
@HWI-EAS443:3:68:375:967#0/1  
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+HWI-EAS443:3:68:375:967#0/1  
ab^b]^\_ab\_baabaaaaaaaa\_aaba\_]aaaaaaaa^`a  
@HWI-EAS443:3:68:378:1026#0/1  
GGAATGCTCCTGTTATCCTGATTCTAGTGAAATCACATGT  
+HWI-EAS443:3:68:378:1026#0/1  
aabbaaaaaa\_a`¥`ba`aaaaa\_]^^]Y^a``]`¥U  
@HWI-EAS443:3:68:37:879#0/1  
ATTCCAATTGTTAGCCAATTGATGCCATCATGACAAGCAC  
+HWI-EAS443:3:68:37:879#0/1  
aaaaaaaaaa`aa]a`Y`^`\_]\_a\_a\_]\_\_\_\_]\_`\_\_\_\_]]  
@HWI-EAS443:3:68:423:116#0/1  
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+HWI-EAS443:3:68:423:116#0/1  
]¥`b]b^`\_\_\_\_`ba^a^VOZ`b`]aaaaa\_Zab[X¥¥WQ  
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+HWI-EAS443:3:68:435:1214#0/1  
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GTCTTTACTGTATATAGCCCATCCACTAACAGGGCAGAGA  
+HWI-EAS443:3:68:452:1781#0/1  
W¥a`bbaaTTbb`\_U`a]`baaba`a`\_a]\_SQ\_aaUaa\_  
@HWI-EAS443:3:68:485:242#0/1  
GTCGCTTGGTCAGCAAGTGCTTGTCATGATGGCATCAATT  
+HWI-EAS443:3:68:485:242#0/1  
aaaaaaaaaa^aaaa]aYa¥`aa```]YW]¥[[^\_Y\_]^\_  
@HWI-EAS443:3:68:560:1042#0/1  
GGAGAGGGAACCTCACCAATAGGACAGCTCATTAGGGTTC  
+HWI-EAS443:3:68:560:1042#0/1  
aa```a\_ZQ^aaaa`a`¥Z`¥`\_`Y`a\_\_\_\_\_a`^]NYW\_\_  
@HWI-EAS443:3:68:627:1709#0/1  
CAGTGGTTTCCGTGAAATTAGCGGGCAATTCCTCTCTCTG  
+HWI-EAS443:3:68:627:1709#0/1  
abb\_]a^bbabZa^ababaa`UX[`T\_RVZaa\_aaa^SY  
@HWI-EAS443:3:68:667:327#0/1  
CATGATGGCATCAATTGGCTAACAATTGGAATTTCTGGCC  
+HWI-EAS443:3:68:667:327#0/1  
\_^^^abaaa`^a^^aba\_^^`^Z`\_a]YY]aaaa`\_`\_`

@HWI-EAS443:3:68:693:515#0/1  
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+HWI-EAS443:3:68:693:515#0/1  
aa`\_abaa`^^`¥Z\_SSWZ^T\_Z[¥WVSPW^TZ[ZVRZT  
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+HWI-EAS443:3:68:712:1159#0/1  
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@HWI-EAS443:3:68:738:1894#0/1  
AGAAACAATATATTGAGAACAAGAGTCTGAATGTGCAT  
+HWI-EAS443:3:68:738:1894#0/1  
aXZ^aaaa^^^`] `XaZYZaa^aa`a^¥aY]aaVVNTWa\_  
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GCAGAACCTTCTTCTGACTCAAGGGCCTTGCTAAATGA  
+HWI-EAS443:3:68:757:256#0/1  
a`] `Z¥`\_]\_]ZQ`\_¥LPN¥`¥W¥V¥`PWXS]RZ^^P^  
@HWI-EAS443:3:68:82:1779#0/1  
GACCGTGGGTGTCTTCAACCAGAATCTGGAATATCAGAT  
+HWI-EAS443:3:68:82:1779#0/1  
ZXb`R\_\_bbb[\_ba]bab`] `Z\_bbbbaa^Zababbaab`a  
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GCATGTTTCAATCTGATTTTGATTCCCAAGTTGAATTGAG  
+HWI-EAS443:3:68:852:771#0/1  
aa^aaYb\_`[^a\_aaZa\_`Y` `` `aZa^W]Y\_aV^`\_`\_aa  
@HWI-EAS443:3:68:861:423#0/1  
TACGATATCTTGCTTTATTGAGAAGTTATTGTCTGTCCCA  
+HWI-EAS443:3:68:861:423#0/1  
abaa\_aaa`aa]\_aaaa`^^a`\_a¥a`\_`^W¥^\_[FLSZH  
@HWI-EAS443:3:68:871:168#0/1  
GTTCCCTCTCCATACTCAAGATTTGAGTCAGTCGCTT  
+HWI-EAS443:3:68:871:168#0/1  
¥]S]T]ZZ]XW¥UYPYOS]OZ`] `WXZ]aU\_BBBBBBBBBB  
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CAGAAATTCCAATTGTTAGCCAATTGATGCCATCATGACA  
+HWI-EAS443:3:68:925:466#0/1  
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@HWI-EAS443:3:68:944:1412#0/1  
GAACTAACAGGGCTGGATTGTATAAGACCTTGCTTCTGGG  
+HWI-EAS443:3:68:944:1412#0/1  
a`ba\_^^baa`T`a\_`X¥^¥`aaU\_]`\_a`a` `[O[]a\_  
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CTGTCCCAGTCCATCCGTTCCGATCCCAAATCATCTCAAA  
+HWI-EAS443:3:68:999:946#0/1  
abbababbbbaabbaaa\_a`aaa` `aaaaa` `a`a`aa¥a  
@HWI-EAS443:3:69:1003:852#0/1  
CAAATCTTGAGTTGTATGGAGAGGGAACCTCACCAATAGG  
+HWI-EAS443:3:69:1003:852#0/1  
aaaaabaab¥aabb`bbb`aa`[\_`\_]`\_`\_a\_\_a\_aa^\_  
@HWI-EAS443:3:69:1008:1037#0/1  
TGTTATCCTGATTCTAGTGAATCACATGTGTGTGCAGGG

+HWI-EAS443:3:69:1008:1037#0/1  
\_ ^\_ba\_`a`aaa`a\_Za[]`a\_aaaa^a]Y`\_a]a\_Ya\_\_  
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CCCCAATCATCTCAAAACCGTTTCTTGAACCTAATGCTTTT  
+HWI-EAS443:3:69:100:1901#0/1  
abb¥U¥^bbababababaaa¥`aa^aa`aaa`\_aaaa`  
@HWI-EAS443:3:69:1011:1675#0/1  
GCGGGAGTTTTGTTTCAGCATCCAGAACTAACAGGGCTGGA  
+HWI-EAS443:3:69:1011:1675#0/1  
aabbaab\_a`abaabaaa`aba¥^abaabbaaa[aY```a  
@HWI-EAS443:3:69:1077:1912#0/1  
GATTCTAGTGAAATCACATGTGTGTGCAGGGATAACTGGC  
+HWI-EAS443:3:69:1077:1912#0/1  
I\_[UW\_\_][\_]`aa\_W\_baa`a]\_\_[a^NWY`aba``[a  
@HWI-EAS443:3:69:1077:999#0/1  
TGCAGAACCTTCTTCTTGAAGGGCCTTGCTAAATG  
+HWI-EAS443:3:69:1077:999#0/1  
\_bbbaZ`abbaabbaabbaab`¥S¥aW^`aaaaZV¥a``  
@HWI-EAS443:3:69:1087:717#0/1  
ACGGTTTTGAGATGATTTGGGATCCGAACGGATGGACTGG  
+HWI-EAS443:3:69:1087:717#0/1  
aaba^abb`aaaa`aab`ab``a`a``]a`\_\_a`VU^aa  
@HWI-EAS443:3:69:1098:523#0/1  
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+HWI-EAS443:3:69:1098:523#0/1  
]abaa\_0\_bbbbbbbbaab]abba\_aYba`^^^b`^^`aa]  
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CAGACATATGTTAACATCAGCAACACCAACTTTGCTGCTG  
+HWI-EAS443:3:69:1143:1354#0/1  
abaabababaaaaaaaaaaaaaaaa`aa`aaaa`\_aaaa\_\_`  
@HWI-EAS443:3:69:125:1819#0/1  
CTTGAATGCAGAACCTTCTTCTTGAAGGGCCTTG  
+HWI-EAS443:3:69:125:1819#0/1  
aa\_Z`a^ZWa`¥¥]^^^\_]X\_Y^X\_V`^YX0I0]]]YU  
@HWI-EAS443:3:69:1260:1964#0/1  
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aa`bZb[ab`bZUW]`YT\_baaaVXFPZ^SVUYU¥YV\_\_Y  
@HWI-EAS443:3:69:1280:408#0/1  
CCGTGGGTGTCTTTCAACCAGAATCTGGAATATCAGATAG  
+HWI-EAS443:3:69:1280:408#0/1  
aabbbba`baabbbbbbaaababb`bbaabaaaabaaba  
@HWI-EAS443:3:69:1295:1161#0/1  
CAGACATATGTTAACATCAGCAACACCAACTTTGCTGCTG  
+HWI-EAS443:3:69:1295:1161#0/1  
``aaa\_baa\_^aaaabaaa`\_aa\_aa`X\_a¥\_a\_\_a`\_\_\_\_  
@HWI-EAS443:3:69:131:400#0/1  
GTTTGGATAGGGAGAATAAGCATTAGTTCAAGAAACG  
+HWI-EAS443:3:69:131:400#0/1  
a\_a^Za[]^^a`¥^[a\_\_\_\_]Y^¥\_``^X[XX^\_]¥U¥]^

@HWI-EAS443:3:69:1382:1740#0/1  
ATAACAGACTATCAAGAGTTGGAGAAACAATATATTGA  
+HWI-EAS443:3:69:1382:1740#0/1  
¥YY\_aa[`\_ab`^U`a]`¥XL\_aa\_TZ\_^U]YX]XYTZ[]  
@HWI-EAS443:3:69:1404:1003#0/1  
ATCCTTTTGTGGTGTAAACAGTGACTGTGGGTTGGTCT  
+HWI-EAS443:3:69:1404:1003#0/1  
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@HWI-EAS443:3:69:1412:1397#0/1  
GTGCATTGAGCCATGCCAGTTATCCCTGCACACACATGT  
+HWI-EAS443:3:69:1412:1397#0/1  
a[^^^XWTRUPZa` ]\_ [NVYUVXZ[aXX[ULVPU\_aV  
@HWI-EAS443:3:69:1432:1092#0/1  
ACCACAACCTGCCTGTCTTATCATTAGGGCGTGGATTGTCT  
+HWI-EAS443:3:69:1432:1092#0/1  
[baab\_bbbbaabbaabbaaTaa¥aa]a[\_` `` `` `` \_LR[  
@HWI-EAS443:3:69:1521:488#0/1  
TTCAAATACGGCAATGGTGTGGATAGGGAGAACTAAAA  
+HWI-EAS443:3:69:1521:488#0/1  
`aa`aaaa`aa\_\_\_`\_aU`\_a\_]`T[\_\_\_]`\_^\_]\_X\_` ``  
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AAGACACCCACGGTCGATTGAGCCATGCCAGTTATCCCT  
+HWI-EAS443:3:69:154:1084#0/1  
`\_Uaaaaaaaa\_^JIZVUH¥UTWWQBbbbbbbbbbbbbbb  
@HWI-EAS443:3:69:1588:1214#0/1  
TGGCTGTGTTAAAGTACAACGGCATAATAACAGACTAT  
+HWI-EAS443:3:69:1588:1214#0/1  
aa` `a\_LYZ\_\_\_a\_W[MW\_Q^\_^]]\_]`^X][QFXTZ^V  
@HWI-EAS443:3:69:1605:1035#0/1  
CTAATTACTACTATGAGGAATGCTCCTGTTATCCTGATTC  
+HWI-EAS443:3:69:1605:1035#0/1  
abXbaXbbbaa^bbb` `ab`a`baaaabaabab` [aa]aa\_  
@HWI-EAS443:3:69:1624:1301#0/1  
GCGGGAGCAGCATATCCTTTTGTGGTGTAAACAGTGACAC  
+HWI-EAS443:3:69:1624:1301#0/1  
aabbaabbbbaababa`bbbbbaa`aa`aaa\_\_aa¥aa¥a¥  
@HWI-EAS443:3:69:1656:745#0/1  
GTGTCTTTCAACCAGAATCTGGAATATCAGATAGGATACA  
+HWI-EAS443:3:69:1656:745#0/1  
aaaa\_aab`aa`aa`\_a^aaaaaa`a]`a]\_` `` `` ^XV  
@HWI-EAS443:3:69:1659:810#0/1  
TCGGTCTGTATGACAATTGGAATGGCTAACTTAATATTAC  
+HWI-EAS443:3:69:1659:810#0/1  
aaaa`a`b\_aaaaSaa`\_a\_\_\_`aa]a\_`P`aaa`\_aaaW  
@HWI-EAS443:3:69:1711:674#0/1  
GTACAACGGCATAATAACAGACTATCAAGAGTTGGAGA  
+HWI-EAS443:3:69:1711:674#0/1  
aa^a\_¥\_WZ]Z\_`^^Y^[[` [S]T\_` [LZZ\_[YQ\_[]W\_S  
@HWI-EAS443:3:69:1730:899#0/1  
ACTCAATTCAACTTGGGAATCAAATCAGATTGAAACATG

+HWI-EAS443:3:69:1730:899#0/1  
a^\_\_`[]`¥^\_\_\_\_^¥^\_]^^]\_^]\_]\_^[]^]¥¥¥Y]  
@HWI-EAS443:3:69:1737:152#0/1  
GCAAGAACCATTTACACATGCACATTCAGACTCTTGTGTT  
+HWI-EAS443:3:69:1737:152#0/1  
aa]aa\_a`\_`a`a\_]\_]\_`[]]\_`\_^¥^X^V¥[WW^YY  
@HWI-EAS443:3:69:247:906#0/1  
TGCCGTTGTACTTTAACACAGCCACTGCCCCATTGTCTGG  
+HWI-EAS443:3:69:247:906#0/1  
`bbb[H^\_\_abb`bbabbb`aaa^`[[aaa\_^PV¥U^^  
@HWI-EAS443:3:69:262:925#0/1  
GGGCCTTGCTAAATGACAAACATTCCAATGGAACCATTAA  
+HWI-EAS443:3:69:262:925#0/1  
ab]b`ab`bba`Yaabbabbab`bbb`a^aaaaaZX\_  
@HWI-EAS443:3:69:270:1306#0/1  
ATCATGCTCCCCCTTGAATGCAGAACCTTCTTCTGACT  
+HWI-EAS443:3:69:270:1306#0/1  
^\_aaaab\_aaa`a^``[VU^^H[UQ[\_\_¥\_YSZZPT¥¥S  
@HWI-EAS443:3:69:307:1231#0/1  
CTCCCCTATATCCTGACCACTCATTATTCTTCTACGATAT  
+HWI-EAS443:3:69:307:1231#0/1  
^¥babbb^\_\_^^bababbaaab^Q¥aab`aaaa¥aaa^¥a  
@HWI-EAS443:3:69:319:26#0/1  
GGGAGCAGCATATCCTTTTGTGGTGTAAACAGTGACACTG  
+HWI-EAS443:3:69:319:26#0/1  
aaaJ¥a`[`XTUa^¥^`aa^][a¥NZP[\_aWaZ¥\_¥\_a  
@HWI-EAS443:3:69:32:261#0/1  
AGAACCTTCTTCTGACTCAAGGGCCTTGCTAAATGACA  
+HWI-EAS443:3:69:32:261#0/1  
Za])abbaaaaaaaaa`aaZH^aaa^X^``\_aa`a\_^\_]\_  
@HWI-EAS443:3:69:363:787#0/1  
GTTCCGATCCCAAATCATCTCAAACCGTTTCTTGAACTA  
+HWI-EAS443:3:69:363:787#0/1  
\_[bbX^b\_babb`Y\_baababbab\_babaaaa\_a`\_aa`a  
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GGGCTCCTGTCTTTAATGGTTCATTGGAATGTTTGTCTCAT  
+HWI-EAS443:3:69:36:54#0/1  
aaaba\_b\_b^aaba[]aabX`^]H]a]a\_^\_]Va`PZXX\_  
@HWI-EAS443:3:69:446:66#0/1  
GCAAGTGCTTGTCATGATGGCATCAATTGGCTAACAAATTG  
+HWI-EAS443:3:69:446:66#0/1  
\_YFY¥T^\_Z¥aZPX¥]QN]\_ZLTX^UVT^RXGRRURUYUV  
@HWI-EAS443:3:69:518:280#0/1  
ATCAAAGCGTCATTACTTATGAAAACAACACTTGGGTAAA  
+HWI-EAS443:3:69:518:280#0/1  
aa^`]\_`a`\_[^aa]X`aa[`^\_¥]a]aW]¥^¥¥\_YRUSV  
@HWI-EAS443:3:69:519:1195#0/1  
CAGACACTATCAAGAGTTGGAGAAACAATATATTGAGAAC  
+HWI-EAS443:3:69:519:1195#0/1  
aa`abbbbaabb`[\_`aaaa``aYbaaa^\_aba^a\_aaa



@HWI-EAS443:3:69:607:1445#0/1  
GGGGGATGTGTTTGTGCATAAGGGAACCATTTCATATCATGC  
+HWI-EAS443:3:69:607:1445#0/1  
`\_Z\_Za`^`\_Za`^]ab^aa^Y]a\_aaaa`baaa`a`^`  
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CTTGCTTTATTGAGAAGTTATTGTCTGTCCCAGTCCATCC  
+HWI-EAS443:3:69:643:646#0/1  
aaabaaa`[`ab¥]a\_]aabaaTaa^FV]X\_[OQVSJS]  
@HWI-EAS443:3:69:698:1745#0/1  
CAAGAGTTGGAGAAACAATATATTGAGAACACAAGAGTCT  
+HWI-EAS443:3:69:698:1745#0/1  
aab`ba\_aaaXaa`aabba`\_¥[`Z`aa\_]aaa\_¥aY\_P  
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CGCTAATTTACGGAAACCACTGACTGTCCAGCAGCAAAG  
+HWI-EAS443:3:69:837:1264#0/1  
abab``ab^¥``\_a\_Vaa`ab\_]`^`\_[abWV\_\_Z^VUXY  
@HWI-EAS443:3:69:856:1270#0/1  
CTCAAATCTTGAGTTGTATGGAGAGGGAACCTCACCAATA  
+HWI-EAS443:3:69:856:1270#0/1  
a]bbba\_aaaa\_aa`Z`a]X\_a\_\_\_aa`a`\_aaZaaaaW  
@HWI-EAS443:3:69:875:485#0/1  
CACAACTGCCTGTCTTATCATTAGGGCGTGGATTGTCTCC  
+HWI-EAS443:3:69:875:485#0/1  
a\_aabbab``aa^`aaaa`\_\_aa^aaVU\_\_`\_aaX``Z]  
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TCATGACAAGCACTTGCTGACCAAGCGACTGACTCAAATC  
+HWI-EAS443:3:69:904:1564#0/1  
abbbbbaaa`a`a`aa`a¥\_]aa^aaa]^¥`[\_]a\_X^\_]`  
@HWI-EAS443:3:69:945:620#0/1  
AGCGGGAGCAGCATATCCTTTTGTGGTGTAAACAGTGACA  
+HWI-EAS443:3:69:945:620#0/1  
aaaaaa¥V\_X`Ua`]a\_`aaa`R¥[^^^`\_\_¥`^`¥\_XUX  
@HWI-EAS443:3:69:970:171#0/1  
GGGGATGTGTTTGTGCATAAGGGAACCATTTCATATCATGCT  
+HWI-EAS443:3:69:970:171#0/1  
`abaaab\_a\_aaa^\_aaa`\_Z``a\_`\_`¥`a`\_`[\_`\_^^\_`  
@HWI-EAS443:3:69:996:1580#0/1  
GGTGTGTTGGATAGGGAGAATAAAAGCATTAGTTCAAGAA  
+HWI-EAS443:3:69:996:1580#0/1  
^\_U`¥`\_]`^`aa`^``a]a\_\_^`\_`[`XZ`\_]`^^\_\_aY  
@HWI-EAS443:3:6:1016:268#0/1  
GGCTCCTGTCTTTAATGGTTCCATTGGAATGTTTGTTCATT  
+HWI-EAS443:3:6:1016:268#0/1  
a]aa\_YI^ZU]aaa\_]Z]\_\_XU[UUHZ]Z]]X¥¥UVXBBB  
@HWI-EAS443:3:6:1056:285#0/1  
AGAAGTTCTGCATTCCAAGGGGAGCATGATATGAATGG  
+HWI-EAS443:3:6:1056:285#0/1  
ab`W[^\_\_\_\_`aX]Z\_a[ ]`\_¥XXZ^Z^\_]X^]]YBBBB  
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CTCATTATTCTACGATATCTTGCTTTATTGAGAAGTTA

+HWI-EAS443:3:6:1075:302#0/1  
^`^bbbbbabab\_baba`[a^Yaab`baa`a``aaaa  
@HWI-EAS443:3:6:1101:797#0/1  
ATATGCAGTGGGATTTTCGAGACAATCCACGCCCTAATG  
+HWI-EAS443:3:6:1101:797#0/1  
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+HWI-EAS443:3:6:110:1101#0/1  
aba`bba`a`N¥aaa]]\_aaa`X]X\_Z^]`^¥]VV\_^T  
@HWI-EAS443:3:6:112:1598#0/1  
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+HWI-EAS443:3:6:112:1598#0/1  
aaabbaa`baaa`aa`aaT][aaaaaaaa`aaa``\_aa\_\_  
@HWI-EAS443:3:6:1130:119#0/1  
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+HWI-EAS443:3:6:1130:119#0/1  
^aWabaa\_`bVaa[Taaa0^a¥a0a^^aWPH[^ZZUXRaa  
@HWI-EAS443:3:6:1156:343#0/1  
CATTCAAATACGGCAATGGTGTGGATAGGGAGAACTAA  
+HWI-EAS443:3:6:1156:343#0/1  
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CCTAATTATCACTATGAGGAATGCTCCTGTTATCCTGATT  
+HWI-EAS443:3:6:1190:664#0/1  
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GACATATGTTAACATCAGCAACACCAACTTTGCTGCTGGA  
+HWI-EAS443:3:6:1213:1406#0/1  
¥ab\_ab\_a¥a`Za`bMb`a`a`[P]a\_`¥\_b`a\_U^ba  
@HWI-EAS443:3:6:1224:59#0/1  
CACCAACTTTGCTGCTGGACAGTCAGTGGTTTCCGTGAAA  
+HWI-EAS443:3:6:1224:59#0/1  
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CAACTGCCTGTCTTATCATTAGGGCGTGGATTGTCTCCGA  
+HWI-EAS443:3:6:1229:1603#0/1  
QW\_`b¥baZ¥^bb^Tab`bbbb\_TaV`[SaZ\_Wa]`bBB  
@HWI-EAS443:3:6:1235:377#0/1  
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+HWI-EAS443:3:6:1235:377#0/1  
ababaa`aba`a`a\_a\_a\_a^a^aaa^a^\_][^\_`\_`\_`\_`  
@HWI-EAS443:3:6:1277:846#0/1  
CCTAATTATCACTATGAGGAATGCTCCTGTTATCCTGATT  
+HWI-EAS443:3:6:1277:846#0/1  
]`\_[ab^\_a\_¥¥aaaZ¥`^`bba^a¥^\_`a````abaV`^  
@HWI-EAS443:3:6:1395:1034#0/1  
ATCGGTTCCAAGGGGATGTGTTTGTGCATAAGGGAACCAT  
+HWI-EAS443:3:6:1395:1034#0/1  
a`\_aa```^OW`S\_[UX¥RW^VZ^VVUUU]]\_\_[OYRYBB

@HWI-EAS443:3:6:1410:1848#0/1  
GTGTAAACAGTGACTGTGGGTTGGTCTTGGCCAGACGG  
+HWI-EAS443:3:6:1410:1848#0/1  
`S\_^`\_]\_N^UaZn^¥^]U\_¥\_QUZ¥VWW\_]RUUQ\_¥NWB  
@HWI-EAS443:3:6:1444:1104#0/1  
AAGAAGTTCTGCATTCCAAGGGGAGCATGATATGAATG  
+HWI-EAS443:3:6:1444:1104#0/1  
aaZaabbbaaTa[Yaaa\_Waaaa``\_]YXaaaa``^`^`Y^  
@HWI-EAS443:3:6:1453:843#0/1  
GCTAATTTACGGAAACCACTGACTGTCCAGCAGCAAAGT  
+HWI-EAS443:3:6:1453:843#0/1  
aabbbaabbbaa]ba`aa\_[]^aa\_Va¥\_V\_\_][`\_VW]X]B  
@HWI-EAS443:3:6:1463:1847#0/1  
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+HWI-EAS443:3:6:1463:1847#0/1  
a]JYaaU``a^`\_a\_¥ab¥a^]S\_\_\_\_`\_`^`\_¥H]^WO\_  
@HWI-EAS443:3:6:1532:608#0/1  
AAGACACCCACGGTCGATTGAGCCATGCCAGTTATCCCT  
+HWI-EAS443:3:6:1532:608#0/1  
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GGGCTCCTGTCTTTAATGGTTCATTGGAATGTTTGTCAT  
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\_\_`bb\_aaURIabba[aa\_]aNFI`Z^`GTb]\_aaZTB  
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+HWI-EAS443:3:6:1617:414#0/1  
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@HWI-EAS443:3:6:1644:954#0/1  
GTCAGCAAGTGCTTGTCATGATGGCATCAATTGGCTAACA  
+HWI-EAS443:3:6:1644:954#0/1  
`W[aa0[^Z]aY]\_ST¥G[aSY[RFWMXKEP``TEM\_UG[  
@HWI-EAS443:3:6:1685:1597#0/1  
GCAGAACCTTCTTCTTACTCAAGGGGCTTGCTAAATGA  
+HWI-EAS443:3:6:1685:1597#0/1  
``aa]^¥`]^Y^\_\_`\_`\_]\_^]^[^\_VTQ]\_V`]XXV^]  
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ATGGTGTGGATAGGGAGAACTAAAAGCATTAGTTCAAG  
+HWI-EAS443:3:6:1751:1383#0/1  
abab\_^aabbba\_aYab`\_a`Y\_\_`\_\_`Z\_`\_`bX\_P^[\_  
@HWI-EAS443:3:6:175:447#0/1  
CTTTAACACAGCCACTGCCCATTTGTCTGGGCCAGAAATT  
+HWI-EAS443:3:6:175:447#0/1  
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@HWI-EAS443:3:6:193:797#0/1  
CTGTCCAGCAGCAAAGTTGGTGTGCTGATGTTAACATAT  
+HWI-EAS443:3:6:193:797#0/1  
a\_Z[`[R]aPRZRJT`UaaaWa\_]\_U]\_^a[`U[P¥¥BB  
@HWI-EAS443:3:6:254:1193#0/1  
ATTAGGGCGTGGATTGTCTCCGAAAATCCCACTGCATATG

+HWI-EAS443:3:6:254:1193#0/1  
`babaa` `a` [V`^aZ^a`\_¥a[^\_aZ]¥\_^\_YY\_\_a]B  
@HWI-EAS443:3:6:321:519#0/1  
GGGCGACCCAAAGAGAACAATCTGGACTAGCGGGAGCA  
+HWI-EAS443:3:6:321:519#0/1  
abaa¥¥\_aVa^\_b\_aaaV^VP]a\_a\_aaaRa\_`^¥\_N`UB  
@HWI-EAS443:3:6:35:154#0/1  
GTTCGGATCCCAAATCATCTCAAACCGTTTCTTGAAC TA  
+HWI-EAS443:3:6:35:154#0/1  
`aaaaaaa\_a\_aaa`aaaa`a` ` ` `a`aZ` ` `^^^\_] ^\_  
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CGCTAGTCCAGATTGTGTTCTCTTTGGGTCGCCCTCTGAT  
+HWI-EAS443:3:6:35:1546#0/1  
ab`aS`Ha` `a\_aaaa]`aaaa\_aZT¥¥`V\_`` ` \_baaa  
@HWI-EAS443:3:6:416:157#0/1  
TGGACCACAAC TGCCTGTCTTATCATTAGGGCGTGGATTG  
+HWI-EAS443:3:6:416:157#0/1  
`` `U`aX\_aaXaa[P[aNZUPXZY[^Z[SPSR[S¥^BBBB  
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+HWI-EAS443:3:6:48:944#0/1  
abababaabaaaZXW^YZXYU\_`V][[[ZOYY\_\_V]OVZ]  
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CACAAGAGTCTGAATGTGCATGTGTAAATGGTTCTTGCTT  
+HWI-EAS443:3:6:513:2044#0/1  
`a\_bbaa\_F¥aaaa\_\_\_a^a`a^a\_aaa`aOMZ¥^Y` `a\_  
@HWI-EAS443:3:6:519:413#0/1  
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+HWI-EAS443:3:6:519:413#0/1  
\_`^`\_ba^^^[bbY^SaaaWY[S[\_a\_a`]\_¥aba^VaaaB  
@HWI-EAS443:3:6:542:315#0/1  
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+HWI-EAS443:3:6:542:315#0/1  
`abb`aaY[ `b`aaa`bbb`b\_aabb\_\_a`^a\_\_a\_a\_a^  
@HWI-EAS443:3:6:571:1301#0/1  
CCCCTAATTTACGGAAACCACTGACTGTCCAGCAGCAA  
+HWI-EAS443:3:6:571:1301#0/1  
ab[\_a]RZa\_\_XbZaXaa`Xa`^aa^¥`a]Z\_`TXTRRUB  
@HWI-EAS443:3:6:680:955#0/1  
TAAAGACAGGAGCCCATATCGAACCTAATGAGCTGTCCT  
+HWI-EAS443:3:6:680:955#0/1  
aab\_a]]]a`aa\_a\_a\_``]¥`¥a`Q[``^] ^\_V\_] [XV^  
@HWI-EAS443:3:6:72:1700#0/1  
GTTCGATATGGGCTCCTGTCTTTAATGGTTCCATTGGAAT  
+HWI-EAS443:3:6:72:1700#0/1  
`[a`b`Y¥\_`¥Z¥`ab\_] ^[ `bbaaa\_bJ`SJ¥V\_\_`aaR  
@HWI-EAS443:3:6:75:1063#0/1  
ATCCCAAATCATCTCAAACCGTTTCTTGAAC TAATGCTT  
+HWI-EAS443:3:6:75:1063#0/1  
aaaaaaaa`aaa\_aaa\_^aa^aW\_\_ `` `a^\_] ``^a`^\_\_

@HWI-EAS443:3:6:76:1847#0/1  
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+HWI-EAS443:3:6:76:1847#0/1  
a``bba`bb\_aabb`ababba\_\_`aab\_a\_aaaaa`\_a  
@HWI-EAS443:3:6:788:690#0/1  
ATCAAAATCAGATTGAAACATGCAATCAAAGCGTCATTAC  
+HWI-EAS443:3:6:788:690#0/1  
aaab``baaaaaabbbaaaaa^`[aaa[]a\_`^`a`a]  
@HWI-EAS443:3:6:805:56#0/1  
ATGCAATCAAAGCGTCATTACTTATGAAAACAACACTTGG  
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+HWI-EAS443:3:70:1440:132#0/1  
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^`\_Y`\_`\_P\_W]\_Z`\_^\_Y[abaZaW[^YU\_QT`Z¥R[W[Q  
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aX^X\_[ZNWa¥aY^\_\_`a\_a¥\_^^^QYY[^ZW[[^UUYS  
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+HWI-EAS443:3:70:362:55#0/1  
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+HWI-EAS443:3:70:36:137#0/1  
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a`W`V]`a^¥a`Z\_aaa¥a`]JW`ONQW[\_XXYX\_YS]]B  
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¥aba^aab\_baa\_¥a]]^Za\_^^`^^^\_aRM\_^a`Z^`¥a  
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GTTCTGCATTCCAAGGGGAGCATGATATGAATGGTTCCC  
+HWI-EAS443:3:72:1048:1919#0/1  
a[Va][a`YYZTSY\_Ya]XOFWXVPMZ[XKP\_M[YGGFKF  
@HWI-EAS443:3:72:108:476#0/1  
CAAGGGGGATGTGTTTGTGCATAAGGGAACCATTCATATCA  
+HWI-EAS443:3:72:108:476#0/1  
aaaaaa`ZZ` `[aZ\_aaZ¥U]aa[aa\_`]XY¥`ZW\_\_\_a\_  
@HWI-EAS443:3:72:1164:286#0/1  
AGCGGGAGCAGCATATCCTTTTGTGGTGTAAACAGTGACA  
+HWI-EAS443:3:72:1164:286#0/1  
`\_UX\_]^`¥¥¥\_¥¥Z]^a`aa\_ZZ` `^a^^`Z]ZaY]¥X¥

@HWI-EAS443:3:72:1209:620#0/1  
TGCCTGTCTTATCATTAGGGCGTGGATTGTCTCCGAAAAT  
+HWI-EAS443:3:72:1209:620#0/1  
abaabb\_abaabaaaabaaa]a\_aaaa`^`a`¥a^`\_`\_`  
@HWI-EAS443:3:72:1250:384#0/1  
AGCCCATCCACTAACAGGGCAGAGAGGAATTGCCCGCT  
+HWI-EAS443:3:72:1250:384#0/1  
`^¥Y]``Zaaaaa\_a`]WYaaaaa\_`a^Yaa\_\_\_^XaP¥  
@HWI-EAS443:3:72:1262:712#0/1  
GGTGTCTTTCAACCAGAATCTGGAATATCAGATAGGATAC  
+HWI-EAS443:3:72:1262:712#0/1  
aaZa\_Zaa\_aa¥][QZW^^Q`\_W[P]^R¥`V^Y`\_\_^XU  
@HWI-EAS443:3:72:126:1064#0/1  
TAAAGTACAACGGCATAATAACAGACACTATCAAGAGTTG  
+HWI-EAS443:3:72:126:1064#0/1  
a]aaa]aaa[aaaaaa[\_`]aa`\_Ra``\_\_\_]`¥V¥][[\_`\_`  
@HWI-EAS443:3:72:126:537#0/1  
CATCCACTAACAGGGCAGAGAGGAATTGCCCGCTAATT  
+HWI-EAS443:3:72:126:537#0/1  
aa\_b\_[`Z^a\_Z]\_`\_aaT^NWV`Q`V]`ZKS`¥a[U`¥  
@HWI-EAS443:3:72:1276:589#0/1  
TGAGAACACAAGAGTCTGAATGTGCATGTGTAATGGTTC  
+HWI-EAS443:3:72:1276:589#0/1  
HWNNV¥^T`¥QU¥a\_Z\_¥^]MGMO^XVW¥a[QYQ^`\_WWM  
@HWI-EAS443:3:72:1358:47#0/1  
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+HWI-EAS443:3:72:1358:47#0/1  
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ATTAGGGCGTGGATTGTCTCCGAAAATCCCACTGCATATG  
+HWI-EAS443:3:72:1376:322#0/1  
`a\_a\_\_^aa¥b`I^]`\_]\_\_Y]^\_\_[]X¥Q\_ZV\_VHW\_R¥  
@HWI-EAS443:3:72:137:447#0/1  
CAGTGGTTTCCGTGAAATTAGCGGGCAATTCCTCTCTCTG  
+HWI-EAS443:3:72:137:447#0/1  
aba`]XHX]\_¥^ZYU^````aZ]U]Z¥U\_Y[^XZNY¥¥^  
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CTTTAACACAGCCACTGCCCATTTGTCTGGGCCAGAAATT  
+HWI-EAS443:3:72:1382:123#0/1  
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AGGGGGATGTGTTTGTGCATAAGGGAACCATTCATATCATG  
+HWI-EAS443:3:72:1473:1787#0/1  
[a[^R`aa`b\_X`a]aa\_aba\_aaa¥[aa`\_a\_a\_Za]a  
@HWI-EAS443:3:72:1493:1803#0/1  
TCTTTCAACCAGAATCTGGAATATCAGATAGGATACATAT  
+HWI-EAS443:3:72:1493:1803#0/1  
¥¥Y]Waab\_\_a`^a\_\_aaa\_`\_`^`^a\_`Za\_^YYDTWT]  
@HWI-EAS443:3:72:1502:1047#0/1  
GCCTGTCTTATCATTAGGGCGTGGATTGTCTCCGAAAATC

+HWI-EAS443:3:72:1502:1047#0/1  
ababb`ababbZaaaa`aZa`^aa` `a[]\_`^`\_^¥Z`^\_  
@HWI-EAS443:3:72:1516:1058#0/1  
GTCAGGATATAGCGGGAGTTTTGTTTCAGCATCCAGAACTA  
+HWI-EAS443:3:72:1516:1058#0/1  
a]`ba\_aaa]`\_a\_\_[a]\_`a`\_\_]\_¥QV]]X[\_U\_^]  
@HWI-EAS443:3:72:1557:44#0/1  
CAAAATCAGATTGAAACATGCAATCAAAGCGTCATTACTT  
+HWI-EAS443:3:72:1557:44#0/1  
aba`bbaabbbbbbbbbbbabbabaaabb`aaaabbbabb  
@HWI-EAS443:3:72:1611:1868#0/1  
ACAATATATTGAGAACAAGAGTCTGAATGTGCATGTGT  
+HWI-EAS443:3:72:1611:1868#0/1  
a\_\_]aaa`ba¥a^ab`b` `a\_b\_`ab` `a` `^^`aa` `a`  
@HWI-EAS443:3:72:1615:1258#0/1  
TGCCCCGCTAATTTACGGAAACCACTGACTGTCCAGCAGC  
+HWI-EAS443:3:72:1615:1258#0/1  
Taab\_`[abaT` `TT\_]Zaab]a` ^^XbRO¥[ `0^¥FF[Q  
@HWI-EAS443:3:72:1627:658#0/1  
AGAAATCCAATTGTTAGCCAATTGATGCCATCATGACAA  
+HWI-EAS443:3:72:1627:658#0/1  
ab¥\_\_]a`\_¥0¥[^X¥XU[P\_aa]a\_[] ^^ZW\_Z^`Y¥ZY  
@HWI-EAS443:3:72:1674:1637#0/1  
GTGTTTGGATAGGGAGAACTAAAAGCATTAGTTCAAGAAA  
+HWI-EAS443:3:72:1674:1637#0/1  
a[\_L\_aa\_\_`a\_SYX^\_a]\_`^`\_TVZ\_X]\_[WX\_TZ]]Z  
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+HWI-EAS443:3:72:1751:657#0/1  
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CTCTCCATACAACCTCAAGATTTGAGTCAGTCGCTTGGTCA  
+HWI-EAS443:3:72:1772:1162#0/1  
a\_bbb\_Y^Y^\_^\_bb[aaZbabba`\_]\_a`]¥\_ZP\_`\_WVJ  
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CTGGACCACAACCTGCCTGTCTTATCATTAGGGCGTGGATT  
+HWI-EAS443:3:72:1785:49#0/1  
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@HWI-EAS443:3:72:17:1531#0/1  
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+HWI-EAS443:3:72:17:1531#0/1  
ab[baaaab\_babaa` `a`]aabaU`W^aa\_\_Xaa[\_`¥\_  
@HWI-EAS443:3:72:231:1347#0/1  
CTCCATTAGACGATACTGGACCACAACCTGCCTGTCTTATC  
+HWI-EAS443:3:72:231:1347#0/1  
`\_]aab[[Z^aaa^^\_Z[\_]Y\_]UL\_VDXa`V^[X`\_`\_XK  
@HWI-EAS443:3:72:254:1025#0/1  
TGCAGGGATAACTGGCATGGCTCGAATCGACCGTGGGTGT  
+HWI-EAS443:3:72:254:1025#0/1  
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@HWI-EAS443:3:72:294:1473#0/1  
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+HWI-EAS443:3:72:294:1473#0/1  
aa\_a`\_^\_abba`^ZYa`\_`\_aa`Z]^\_XY^^a^UXa[  
@HWI-EAS443:3:72:311:1728#0/1  
AGCAAGTGCTTGTGCATGATGGCATCAATTGGCTAACCAATT  
+HWI-EAS443:3:72:311:1728#0/1  
``a[[G]\_XY[UaY\_VPRSUXTY^ZPZYLJ[LV]WX]TW  
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+HWI-EAS443:3:72:332:162#0/1  
`a`aaaaY[`]Y#a`X`\_\_T\_^Z]ZR¥SXWY¥[YVV^]XX  
@HWI-EAS443:3:72:343:1301#0/1  
AAATCATCTCAAAACCGTTTCTTGAACATAATGCTTTTAGT  
+HWI-EAS443:3:72:343:1301#0/1  
aba`aaaa^aaa\_`\_^a]\_\_`\_^^`^`\_`\_^`\_`\_^]`^`^  
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+HWI-EAS443:3:72:397:587#0/1  
`[ `aaaaaQ[J[aa\_`Y`a¥\_`\_aa¥]Y\_\_aa^OQ`a\_a  
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AACAGGGCAGAGAGAGGAATTGCCCGCTAATTCACGGAA  
+HWI-EAS443:3:72:40:1031#0/1  
^Ya¥¥^a\_X¥RZ^`R^`WVW[]\_[XZ\_ZY]^Y¥¥ZYRRT  
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GGGGGATGTGTTTGCATAAGGGAACCATTCATATCATGC  
+HWI-EAS443:3:72:429:769#0/1  
`baaa\_]QaU` [OVS^\_\_ [N\_aW¥V^ [a^S`U[\_]¥V[]  
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AGCCCATCCACTAACAGGGCAGAGAGGAATTGCCCGCT  
+HWI-EAS443:3:72:446:469#0/1  
aaaaaaaaa`\_`ab\_aa^]\_[a^\_^a]`\_`\_a\_\_^]¥^\_Y^  
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ATTCCAAGGGGAGCATGATATGAATGGTTCCCTTATGAC  
+HWI-EAS443:3:72:446:862#0/1  
a^X\_]U^]R^]YU]\_`^\_Y¥YY^Y]VYWRX]^]WVWXW]Y  
@HWI-EAS443:3:72:499:529#0/1  
AGAGTCTGAATGTGCATGTGTAAATGGTTCTTGCTTTACT  
+HWI-EAS443:3:72:499:529#0/1  
`]`a[aa```a^WX`\_a`W`]a^Y^a`\_`\_a\_^ [^`¥`a^a  
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CATATGCAGTGGGATTTTCGGAGACAATCCACGCCCTAAT  
+HWI-EAS443:3:72:530:599#0/1  
aa`^`\_aa`Y`^`\_`\_`\_`^U[\_¥a`^Z^`\_`\_\_\_\_Z[X[[  
@HWI-EAS443:3:72:55:236#0/1  
TCCCAGTCCATCCGTTCCGATCCCAAATCATCTCAAAACC  
+HWI-EAS443:3:72:55:236#0/1  
X`\_`Yaaaa`Y¥b`Z^`a`\_ [aUUZ\_MMPRS\_aPYVS]^  
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TACACATGCACATTCAACTCTTGTGTTCTCAATATATTG

+HWI-EAS443:3:72:583:102#0/1  
aaaaaabaa` `aaaaa^a`aaa^X¥^\_` \_\_\_`\_a^a\_`  
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GCCCCAATTATCACTATGAGGAATGCTCCTGTTATCCTG  
+HWI-EAS443:3:72:641:1510#0/1  
a` ``¥Z¥IZY[Z`Y]V`` [``XWZX`^Z¥XaZOW[VY  
@HWI-EAS443:3:72:711:1395#0/1  
AAAAGCATTAGTTCAAGAAACGGTTTTGAGATGATTTGGG  
+HWI-EAS443:3:72:711:1395#0/1  
ab\_bZbaba` `aaaa`baabb` `aaaa`a`aabaaaa\_a`  
@HWI-EAS443:3:72:72:1195#0/1  
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+HWI-EAS443:3:72:72:1195#0/1  
a` ``b`\_bbbaabaa`a`aa` `aa\_^\_]`a` \_\_` `R`a\_]  
@HWI-EAS443:3:72:76:291#0/1  
CACCCACGGTCGATTCGAGCCATGCCAGTTATCCCTGCAC  
+HWI-EAS443:3:72:76:291#0/1  
a[``b\_]a]X` `¥XPXWZ]ZVY]VJPZZN]\_YZMPRRTWX  
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+HWI-EAS443:3:72:778:1973#0/1  
aabbbabab`aaaaababaab`baa\_b`\_`\_aaaaaa\_a  
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ACTGACTGTCCAGCAGCAAAGTTGGTGTGCTGATGTTAA  
+HWI-EAS443:3:72:875:1186#0/1  
aaa`aaaa\_a\_K[``\_`U\_^[S\_[]V¥]YUZ[PZYPT]X^  
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GATGGCATCAATTGGCTAACAATTGGAATTTCTGGCCCAG  
+HWI-EAS443:3:73:1093:532#0/1  
a`aaaaaa¥b`\_bZX¥\_Y]]`aa]\_^^` `^]\_\_^W[Z\_  
@HWI-EAS443:3:73:1097:796#0/1  
ATTGTCTCCGAAAATCCCAGTGCATATGTATCCTATCTGA  
+HWI-EAS443:3:73:1097:796#0/1  
T` ``Yb^bba^` [aH0Zb\_\_W^a`a¥aa`b`^\_^aa]aa`  
@HWI-EAS443:3:73:1102:348#0/1  
GGGCTCCTGTCTTTAATGGTTCCATTGGAATGTTTGTCTCAT  
+HWI-EAS443:3:73:1102:348#0/1  
aba`abbabaabaaaaba`\_`\_a`aaaa`\_`\_a`aa¥^UZ`  
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CATTGTCTGGGCCAGAAATTCCAATTGTTAGCCAATTGAT  
+HWI-EAS443:3:73:1112:1450#0/1  
aa\_Y[X^bbSVa\_VZab`V\_^a\_KY[aQW¥PPaa`VXTQD  
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GGGCTCCTGTCTTTAATGGTTCCATTGGAATGTTTGTCTCAT  
+HWI-EAS443:3:73:1142:624#0/1  
\_a^\_b`\_a`aba¥\_U`ab\_H¥b`¥^Ybb\_\_[]`abb[\_^¥  
@HWI-EAS443:3:73:1144:1747#0/1  
GTCCCAGTCCATCCGTTCCGATCCCAAATCATCTCAAAAC  
+HWI-EAS443:3:73:1144:1747#0/1  
a\_aaa`ZYbaaaaa[¥^a]]`\_^¥Ya[^^[``\_\_\_]``^a\_



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ab`a\_z`b[WT[DVXXRRZQX]OKPZ¥\_R^PZNOFU\_XRU  
@HWI-EAS443:3:73:114:454#0/1  
GTCTGAATGTGCATGTGTAAATGGTTCTTGCTTTACTGTA  
+HWI-EAS443:3:73:114:454#0/1  
a¥`^]Q0[XYa¥T^a¥\_X^UDX¥^Z\_]¥^\_\_Y\_WT]^U[  
@HWI-EAS443:3:73:116:230#0/1  
ATCCTATCTGATATTCCAGATTCTGGTTGAAAGACACCCA  
+HWI-EAS443:3:73:116:230#0/1  
[\_\_WWW^a[^aa¥¥Ha`XS]PYY[[]QZ\_]\_]T`\_`^aLZ^  
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+HWI-EAS443:3:73:1191:113#0/1  
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+HWI-EAS443:3:73:1207:1800#0/1  
a```T\_\_QY^[`a\_aaaa^\_[]a`aaI`Z`]aa\_`^a`^`  
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+HWI-EAS443:3:73:1215:57#0/1  
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ATCCGTTTCGGATCCCAAATCATCTCAAAACCGTTTCTTGA  
+HWI-EAS443:3:73:123:34#0/1  
a\_aaa```\_`a\_^\_\_\_]V]^]^^^Y]]YX\_[YXUY[[Z  
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+HWI-EAS443:3:73:1268:1829#0/1  
aa`\_aba`aaa]a\_aab`aa`aa`aaaaaZa¥\_\_\_Y`a`  
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+HWI-EAS443:3:73:1306:2017#0/1  
¥[b¥`YaaabaS]Xaaba``Zabaaa¥a`^a[^^abaa`  
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+HWI-EAS443:3:73:1397:576#0/1  
aa^S`aaab[VY]^a`[\_a`[\_YP[U^a`\_]\_]RTNNYS  
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+HWI-EAS443:3:73:1435:1420#0/1  
a`]¥¥baaba`]`aa]W`aY`]`aX`U[¥`^`aJX^^^aW\_  
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+HWI-EAS443:3:73:1435:89#0/1  
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+HWI-EAS443:3:73:1441:1047#0/1  
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+HWI-EAS443:3:73:1445:334#0/1  
a¥aaR^[X[[¥[Y`¥[^Z[X¥VWYPRQWY`VLYSQZ]Z^Z  
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+HWI-EAS443:3:73:1470:410#0/1  
`¥[\_abaabbaa¥aaaa\_a^a\_aaa\_¥YZW^`Y`\_`\_\_`  
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+HWI-EAS443:3:73:1482:113#0/1  
a\_b`a[[¥aaaaX[QW`N]VGZ^\_TZTP]¥[[`X\_[\_ZS¥  
@HWI-EAS443:3:73:1499:308#0/1  
GGGATGTGTTTGTCTATAAGGGAACCATTTCATATCATGCTC  
+HWI-EAS443:3:73:1499:308#0/1  
a\_^[Z\_P¥T]^`¥P]^a\_\_WTU^ZW]]`Y]]^VUV[S]X  
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GATTCTAGTGAAATCACATGTGTGTGCAGGGATAACTGGC  
+HWI-EAS443:3:73:1528:245#0/1  
a`a\_]a`[[`\_`^\_]\_`aXa[ZWq]X`]TW`^]X\_]U  
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+HWI-EAS443:3:73:153:401#0/1  
a¥b``]`a`TYT`aR^`]Q[VT]a\_a]P[U]P\_]UFV]W[  
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+HWI-EAS443:3:73:1688:340#0/1  
Saabaabbbb]b`abbbabbbbbbbbababbbbaabbbb  
@HWI-EAS443:3:73:17:71#0/1  
CAAGGTCTTATACAATCCAGCCCTGTTAGTTCTGGATGCT  
+HWI-EAS443:3:73:17:71#0/1  
TTZaYF\_baa`b\_aba\_]R¥\_]\_YbYTabOaaU¥aWWZOU  
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CGCTTGGTCAGCAAGTGTGCTTGTCTGATGGCATCAATTGG  
+HWI-EAS443:3:73:182:975#0/1  
aba\_a\_a^a]a\_¥a^]aaX]U[X]^VU^Z[ZaW\_¥[]WZ[

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+HWI-EAS443:3:73:18:346#0/1  
aa\_`\_^]aXX[^`¥`X\_\_^\_] ^P^^]]^[]^ [Z][^  
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+HWI-EAS443:3:73:268:766#0/1  
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+HWI-EAS443:3:73:271:222#0/1  
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@HWI-EAS443:3:73:342:1568#0/1  
GTTGAAAGACACCCACGGTCGATTGAGCCATGCCAGTTA  
+HWI-EAS443:3:73:342:1568#0/1  
a^aW]`¥aa\_^`a`\_]UTY[U]^¥^¥W^UUUS`VMMUP  
@HWI-EAS443:3:73:351:786#0/1  
GATTTTCGGAGACAATCCACGCCCTAATGATAAGACAGGC  
+HWI-EAS443:3:73:351:786#0/1  
]¥`^ [a`\_OWa^`ZXaa[a[``]VXGU[]V^`\_`aaBB  
@HWI-EAS443:3:73:356:737#0/1  
GCAAGGTCTTATACAATCCAGCCCTGTTAGTTCTGGATGC  
+HWI-EAS443:3:73:356:737#0/1  
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@HWI-EAS443:3:73:484:367#0/1  
ATTCAAATACGGCAATGGTGTGGATAGGGAGAACTAAA  
+HWI-EAS443:3:73:484:367#0/1  
\_a¥\_T\_V\_^aXV\_Y\_¥]ZHPW]]^¥[RZQ\_N[]P]\_`]¥^  
@HWI-EAS443:3:73:544:712#0/1  
TCCCAGTCCATCCGTTCCGATCCCAAATCATCTCAAACC  
+HWI-EAS443:3:73:544:712#0/1  
[aa`a\_abbb``aZFUX\_VTO^ZU\_\_ZRR¥OXOVNRZ]^]  
@HWI-EAS443:3:73:611:242#0/1  
CCTGTCTTATCATTAGGGCGTGGATTGTCTCCGAAAATCC  
+HWI-EAS443:3:73:611:242#0/1  
`bb`SaaS¥^baaab]a\_aa\_W]¥aVQS¥]^\_YP]HY\_\_ [Y  
@HWI-EAS443:3:73:736:493#0/1  
ACGGAAACCACTGACTGTCCAGCAGCAAAGTTGGTGTTC  
+HWI-EAS443:3:73:736:493#0/1  
\_bbbaabababaaaaaa`\_a\_[aa]Yaa\_Y`Z`Z]][]`R¥  
@HWI-EAS443:3:73:754:1146#0/1  
GGGGGATGTGTTTGTGCATAAGGGAACCATTCATATCATGC  
+HWI-EAS443:3:73:754:1146#0/1  
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CTGGACCACAACCTGCCTGTCTTATCATTAGGGCGTGGATT  
+HWI-EAS443:3:73:759:994#0/1  
\_RX]a]aa]]¥a]`XXaaUR`a\_]XX`]¥`\_ZaZ[\_^Z\_Y  
@HWI-EAS443:3:73:793:1268#0/1  
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@HWI-EAS443:3:74:1358:1464#0/1  
GCGGGAGCAGCATATCCTTTTGTGGTGTAAACAGTGACAC  
+HWI-EAS443:3:74:1358:1464#0/1  
aaabaabaaaaaba`aabbba`aa[``a`a`aa¥aa\_dU  
@HWI-EAS443:3:74:1365:429#0/1  
GAAAGACACCCACGGTCGATTCGAGCCATGCCAGTTATCC  
+HWI-EAS443:3:74:1365:429#0/1  
a`baabab`T^¥\_baQ[a]QaY`^¥N\_^S`]S\_]S¥¥WHM  
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GCCCCGCTAATTTACGGAAACCACTGACTGTCCAGCAGCA  
+HWI-EAS443:3:74:1391:1502#0/1  
aXX¥WHZXaa\_\_\_UNa`VHU]RXVVQ¥Z]\_QWV\_¥WPMMS  
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GCAGAACCTTCTTCTGACTCAAGGGCCTTGCTAAATGA  
+HWI-EAS443:3:74:1428:1405#0/1  
aa¥SZ`^a`^¥a`ZabZaabaY`[\_aX`a¥aSbR`\_`\_]Z  
@HWI-EAS443:3:74:1433:585#0/1  
GGGAGAACTAAAAGCATTAGTTCAAGAAACGGTTTTGAGA  
+HWI-EAS443:3:74:1433:585#0/1  
aaa`abbaaaaaaba^a`aaaa`\_aa\_aaba[aaa`]Z  
@HWI-EAS443:3:74:1486:279#0/1  
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+HWI-EAS443:3:74:1486:279#0/1  
a[\_aaaa`aaabb\_aa\_\_aaa\_aa\_a\_`a^0\_a]``X`\_  
@HWI-EAS443:3:74:1524:504#0/1  
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+HWI-EAS443:3:74:1524:504#0/1  
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ATTGTATAAGACCTTGCTTCTGGGTTGAACTAATCAGAGG  
+HWI-EAS443:3:74:1553:363#0/1  
]\_a`\_baZbaZW\_\_\_[``b`aa[\_YRb`ba`aMa`a[`  
@HWI-EAS443:3:74:1584:1525#0/1  
CAAAATCAGATTGAAACATGCAATCAAAGCGTCATTACTT  
+HWI-EAS443:3:74:1584:1525#0/1  
aa^`aabab]bbb`ab`aa\_aa`]ab\_abb`^aaa`^aa  
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GTTTCGGATCCCAAATCATCTCAAACCGTTTTCTTGAACCTA  
+HWI-EAS443:3:74:1601:716#0/1  
\_RZ[YNU`¥Z\_WW\_a\_a^aY``Z\_aXNNL¥HO^[W`ST¥U  
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CTGCCCCATTGTCTGGGCCAGAAATTCOAATTGTTAGCCA  
+HWI-EAS443:3:74:1612:1458#0/1  
VV^M]¥`abb\_P\_b]V^¥¥¥¥R\_R¥¥\_`b`\_IZa`]X]\_  
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GCTTGTCATGATGGCATCAATTGGCTAACAATTGGAATTT  
+HWI-EAS443:3:74:1647:1807#0/1  
aab[X¥``\_aa``X`\_Z````a¥^[\_aZ^]a`\_\_\_\_\_  
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@HWI-EAS443:3:74:331:1933#0/1  
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+HWI-EAS443:3:74:331:1933#0/1  
`^¥\_SX¥W`aYa\_]\_0^a]`¥`TZWaURa\_QOL]VSQ^BB  
@HWI-EAS443:3:74:36:1540#0/1  
GAATAAATGAGTGGTCAGGATATAGCGGGAGTTTTGTTCA  
+HWI-EAS443:3:74:36:1540#0/1  
abaaaa^aaaa^¥^^aaa`\_\_a`\_`\_^\_]OZVZ^^WZU¥Z  
@HWI-EAS443:3:74:527:1384#0/1  
TGCCTGTCTTATCATTAGGGCGTGGATTGTCTCCGAAAAT  
+HWI-EAS443:3:74:527:1384#0/1  
`baZ\_]V^\_\_^\_a]aa`aa\_^Z`a`aXa\_aaTDV¥]P  
@HWI-EAS443:3:74:583:1230#0/1  
AAATGGTTCTTGCTTTACTGTAATGACCGATGGACCAAGT  
+HWI-EAS443:3:74:583:1230#0/1  
`^\_¥a^]aab`Waaa\_a`aa\_^V`^a`\_`\_`^a\_¥]`][ZV  
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GGACCACAACCTGCCTGTCTTATCATTAGGGCGTGGATTGT  
+HWI-EAS443:3:74:589:400#0/1  
]ZSSZ^^0^]ZW\_a]aXa\_[S[U]Z[VVY]aTTSR[^XR  
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+HWI-EAS443:3:74:660:746#0/1  
`baaa\_^aa[`aa`bbb`b`abaa[a¥aaab`\_aaYa\_  
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GAGTTGGAGAAACAATATATTGAGAACACAAGAGTCTGAA  
+HWI-EAS443:3:74:697:542#0/1  
aaa`b\_aab\_¥^\_]aa[a^`a`\_`aa`aaaa`a\_aaa\_^  
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ATCCTTTTGTGGTGTAAACAGTGACACTGTGGGTTGGTCT  
+HWI-EAS443:3:74:69:842#0/1  
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+HWI-EAS443:3:74:725:748#0/1  
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@HWI-EAS443:3:74:726:1469#0/1  
AGCACTTGCTGACCAAGCGACTGACTCAAATCTTGAGTTG  
+HWI-EAS443:3:74:726:1469#0/1  
]ZZa`aaaaaaaa\_b^^aaaa\_\_\_\_\_¥]a]\_`\_^\_]U]]aW  
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+HWI-EAS443:3:74:73:791#0/1  
¥¥`bb\_bababb\_¥aa^]aa]^W[bVaa\_`\_^a]YYS`\_  
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CGTTCGGATCCCAAATCATCTCAAACCGTTTCTTGAAC  
+HWI-EAS443:3:74:803:771#0/1  
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+HWI-EAS443:3:74:811:1159#0/1  
¥¥`^^bbb[T[^^a]Ya\_Y`JWX\_YaXXUU\_]`a¥[\_\_\_  
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GTGGTGTAAACAGTGACACTGTGGGTTGGTCTTGCCAGA  
+HWI-EAS443:3:74:916:256#0/1  
¥U``b\_Z`aaaa^aaaa`ab¥a\_a^b`]^\_`a`¥S\_^¥  
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GCCTGTCTTATCATTAGGGCGTGGATTGTCTCCGAAAATC  
+HWI-EAS443:3:74:986:860#0/1  
aa[¥]a\_a`V`TR`aULTP]\_`Z\_\_WZ^YU¥]RYV\_^YVG  
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+HWI-EAS443:3:75:1002:409#0/1  
abbbabaaaab\_Z`abaa`aaa`aaaaa\_aa\_a^``^¥  
@HWI-EAS443:3:75:100:1244#0/1  
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+HWI-EAS443:3:75:100:1244#0/1  
aa\_^`\_\_\_[UX\_U^^T[\_`\_[W[M^\_]JT`^`\_]WVM  
@HWI-EAS443:3:75:1063:843#0/1  
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+HWI-EAS443:3:75:1063:843#0/1  
ababa^b^babbbbab\_\_`^a```[L`aa\_\_\_a\_a^`[a`  
@HWI-EAS443:3:75:1132:332#0/1  
CAAGGTCTTATACAATCCAGCCCTGTTAGTTCTGGATGCT  
+HWI-EAS443:3:75:1132:332#0/1  
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+HWI-EAS443:3:75:1206:1801#0/1  
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@HWI-EAS443:3:75:1259:1871#0/1  
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+HWI-EAS443:3:75:1259:1871#0/1  
aYY\_b`]\_a¥aaaaaaa`ab\_\_a`\_baWb]X`XUZGbaa  
@HWI-EAS443:3:75:129:1228#0/1  
ATCAAAGCGTCATTACTTATGAAAACAACACTTGGGTAAA  
+HWI-EAS443:3:75:129:1228#0/1  
a`aa\_baaa`aaaaaaaaaaaa\_a``aa``a\_\_\_^¥[\_XT  
@HWI-EAS443:3:75:1302:1629#0/1  
AGCCCATCCACTAACAGGGCAGAGAGGAATTGCCCGCT  
+HWI-EAS443:3:75:1302:1629#0/1  
a^`^]aa]¥\_\_aba\_]Za`X^``a\_aa\_aaa`\_\_S^U\_\_]  
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GTGTTCTCAATATATTGTTTCTCCAACCTTGATAGTGTC  
+HWI-EAS443:3:75:133:197#0/1  
`¥a`aa`aab^a`aab\_aa`a`a\_`^`\_\_\_\_``]\_\_[]]B  
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AGAAATCCAATTGTTAGCCAATTGATGCCATCATGACAA  
+HWI-EAS443:3:75:1403:644#0/1  
abaa`aa^abaaaaa^`\_[a`a`a\_`W[^`[aaa¥M\_a



@HWI-EAS443:3:75:1417:323#0/1  
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+HWI-EAS443:3:75:1417:323#0/1  
`baa\_`b\_bba`b\_¥abbbbabaZaabP\_`b^aaaa^aZa  
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+HWI-EAS443:3:75:1627:1111#0/1  
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@HWI-EAS443:3:75:180:1049#0/1  
AGAACACAATCTGGACTAGCGGGAGCAGCATATCCTTTTG  
+HWI-EAS443:3:75:180:1049#0/1  
aba¥aaaaaaaaaaaaaaaaa]a`\_]\_^\_\_\_Y\_]\_]\_\_\_YJ  
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+HWI-EAS443:3:75:190:1010#0/1  
YOZQ]aaVW^`TX\_a`a`¥`¥\_]`a]`[``][^X^  
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+HWI-EAS443:3:75:197:834#0/1  
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+HWI-EAS443:3:75:214:758#0/1  
a\_Z^[JYNY¥Y]`^XYX]¥\_a`[^`[VT]^YUVV¥U\_^V  
@HWI-EAS443:3:75:24:1335#0/1  
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+HWI-EAS443:3:75:24:1335#0/1  
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@HWI-EAS443:3:75:250:1380#0/1  
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+HWI-EAS443:3:75:250:1380#0/1  
^\_W\_\_T````\_baabbab[Xaa\_ZU`[a`a¥Xaab`a```  
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CATTAGGGCGTGGATTGTCTCCGAAAATCCCCTGCATAT  
+HWI-EAS443:3:75:265:357#0/1  
abbab\_abb[ `a`ba\_aab`ba` ``ba][baa`aaaa^a^  
@HWI-EAS443:3:75:281:1007#0/1  
GCCAGAAATCCAATTGTTAGCCAATTGATGCCATCATGA  
+HWI-EAS443:3:75:281:1007#0/1  
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+HWI-EAS443:3:75:321:306#0/1  
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@HWI-EAS443:3:75:360:218#0/1  
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+HWI-EAS443:3:75:360:218#0/1  
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@HWI-EAS443:3:75:390:856#0/1  
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+HWI-EAS443:3:75:390:856#0/1  
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@HWI-EAS443:3:75:39:1378#0/1  
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+HWI-EAS443:3:75:39:1378#0/1  
a]aaa`aa\_aaaa`a`a`\_aaaVZ[^[UVW^]\_¥IX¥^[  
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+HWI-EAS443:3:75:408:444#0/1  
Tb]¥]]`abaX]\_ab`\_a[]PX`[```\_ab^aa^^Za]P  
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CGGGAGCAGCATATCCTTTTGTGGTGTAACAGTGACACT  
+HWI-EAS443:3:75:420:25#0/1  
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@HWI-EAS443:3:75:505:1330#0/1  
TGGAATGTTTGTCAATTTAGCAAGGCCCTTGAGTCAAGAA  
+HWI-EAS443:3:75:505:1330#0/1  
`Ub]`\_[abb\_]b`\_aa¥Yb[```bbaaaa`\_[R^`\_`\_a\_  
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GGCAATGGTGTGGATAGGGAGAATAAAAGCATTAGTT  
+HWI-EAS443:3:75:552:1733#0/1  
^^a`Xaa^Y[]^aa\_\_aa^UY^`^a^aaaaa\_a\_`\_`^`XX  
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+HWI-EAS443:3:75:583:1779#0/1  
abbb`]Ma]\_K\_a¥VPV^Saa[bbab\_NaXN]b```\_]a]  
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+HWI-EAS443:3:75:616:1460#0/1  
a\_^[MYaa`a`YL¥a`\_R[]VYVV]]U]aXRX¥\_Va[`ZZ  
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GGGTGTCTTTCAACCAGAATCTGGAATATCAGATAGGATA  
+HWI-EAS443:3:75:624:1039#0/1  
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@HWI-EAS443:3:75:637:617#0/1  
AGGGATAACTGGCATGGCTCGAATCGACCGTGGGTGTCTT  
+HWI-EAS443:3:75:637:617#0/1  
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+HWI-EAS443:3:75:719:1992#0/1  
`^\_[Z[`]V]¥`¥^¥`]RX\_ZTVMT\_[X\_¥`aaa\_\_\_^aT  
@HWI-EAS443:3:75:726:212#0/1  
CAGATTCTGGTTGAAAGACACCCACGGTCGATTCGAGCCA  
+HWI-EAS443:3:75:726:212#0/1  
\_W\_YW`aa¥XXXZa¥TG[`\_Y]XXPO[PG[RVVP]¥¥BBB  
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GGGAACCTCACCAATAGGACAGCTCATTAGGGTTCGATAT  
+HWI-EAS443:3:75:770:2002#0/1  
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+HWI-EAS443:3:75:775:265#0/1  
aa`U`aabbaaaaab`abb\_aaaa^b\_aabaa^aaaaaa  
@HWI-EAS443:3:75:872:1691#0/1  
TGCCCCGTAATTTACGGAACCACTGACTGTCCAGCAGC  
+HWI-EAS443:3:75:872:1691#0/1  
abb``a`^`¥\_]Sabbba\_`\_baaa`aa^[¥\_W[LZR^  
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+HWI-EAS443:3:75:878:854#0/1  
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@HWI-EAS443:3:75:901:1799#0/1  
CAACTGCCTGTCTTATCATTAGGGCGTGGATTGTCTCCGA  
+HWI-EAS443:3:75:901:1799#0/1  
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@HWI-EAS443:3:75:911:875#0/1  
AGCGGGAGTTTTGTTTCAGCATCCAGAACTAACAGGGCTGG  
+HWI-EAS443:3:75:911:875#0/1  
aabbababZaaa\_¥`a[\_`a\_`a`\_`a\_`aa\_a`\_]\_Y]``  
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GCGGGAGTTTTGTTTCAGCATCCAGAACTAACAGGGCTGGA  
+HWI-EAS443:3:75:918:436#0/1  
a\_aaa^^Zaaaa\_a^\_a`aaY[``\_\_^`\_aU\_[U^]^^\_V  
@HWI-EAS443:3:75:924:1789#0/1  
ACAATATATTGAGAACAAGAGTCTGAATGTGCATGTGT  
+HWI-EAS443:3:75:924:1789#0/1  
abbbbbbbbbbbbbbbbbbaaaa`aaaaaaa\_baaaa\_a\_  
@HWI-EAS443:3:75:938:434#0/1  
CGGGAGTTTTGTTTCAGCATCCAGAACTAACAGGGCTGGAT  
+HWI-EAS443:3:75:938:434#0/1  
a\_\_b¥`QYabaa^[aaZa\_\_YTY`a^]\_`^`\_bZ]aaa]\_  
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GGCTCCTGTCTTTAATGGTTCCATTGGAATGTTTGTTCATT  
+HWI-EAS443:3:75:980:694#0/1  
aab``a^WV^`\_aaa\_abX`0`[\_aaa[aaS\_\_[G[]]`a  
@HWI-EAS443:3:76:1032:127#0/1  
TGTAACAGTGACACTGTGGGTTGGTCTTGGCCAGACGGT  
+HWI-EAS443:3:76:1032:127#0/1  
aaaaaa\_aa`a`\_`¥ab^aa\_\_`a\_¥¥a``TW\_`^X¥^W  
@HWI-EAS443:3:76:1032:1999#0/1  
GTGGGATTTTCGGAGACAATCCACGCCCTAATGATAAGAC  
+HWI-EAS443:3:76:1032:1999#0/1  
aIUZUNV\_R]T]^¥W^XZZ[aa\_`VVY\_NSPTSPPQSSWS  
@HWI-EAS443:3:76:1046:2038#0/1  
ATTCATATCATGCTCCCCCTTGAATGCAGAACCTTCTTC  
+HWI-EAS443:3:76:1046:2038#0/1  
\_\_Z]\_\_^W\_ZXYZ]^a]ZS[Z]V\_YS\_[¥XUWJUSPSUVP  
@HWI-EAS443:3:76:1052:1694#0/1  
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@HWI-EAS443:3:76:1670:612#0/1  
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+HWI-EAS443:3:76:1670:612#0/1  
`^WXab\_Z¥a¥^TU¥Vaababa]^0¥]\_Uaa`bbb``PH\_  
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GAGGAATGCTCCTGTTATCCTGATTCTAGTGAATCACAT  
+HWI-EAS443:3:76:1671:1541#0/1  
a\_\_a\_¥^YZ^U[X^^^\_W¥Y\_^`^^\_¥]X\_] ^ZWRTRQ¥  
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+HWI-EAS443:3:76:1788:1920#0/1  
a`bba^ab¥Q\_X^aa\_VYL¥`[`¥[[X¥Wa^][QM^SS[Y  
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+HWI-EAS443:3:76:271:1854#0/1  
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+HWI-EAS443:3:76:279:995#0/1  
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+HWI-EAS443:3:76:285:1438#0/1  
a\_SS][Z¥a`¥VZX]XYY]XWW]]\_T`]^`^^^\_\_IZU  
@HWI-EAS443:3:76:302:109#0/1  
TGCAGAACCTTCTTCTGACTCAAGGGCCTTGCTAAATG  
+HWI-EAS443:3:76:302:109#0/1  
aaY`\_Z¥`]V\_`^[^\_`^Z]¥^XQXW]^WSZPVV]WUW]]  
@HWI-EAS443:3:76:303:1367#0/1  
TGTTATTATGCCGTTGTACTTTAACACAGCCACTGCCCA  
+HWI-EAS443:3:76:303:1367#0/1  
aa\_`a\_```aaaa^]^Z¥aaa]a\_aaa`\_`a\_^N]^\_]K  
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TATTCCTACGATATCTTGCTTTATTGAGAAGTTATTGTCT  
+HWI-EAS443:3:76:311:543#0/1  
abaaaaabaa\_a\_`\_`\_`aa``aa`^\_\_\_\_]^`]^\_]\_^]]  
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CTCCATTAGACGATACTGGACCACAACCTGCCTGTCTTATC  
+HWI-EAS443:3:76:325:1108#0/1  
a]\_b]]`][¥a]SQ\_\_\_\_¥¥VY`H`R¥]V]^0[Ry[YUVO  
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AGCCACTCAATTCAACTGGGAATCAAAATCAGATTGAAA  
+HWI-EAS443:3:76:327:2034#0/1  
aabbbaa\_bb]]`a\_]`\_^\_¥^`]^aa¥a`\_a`\_`\_ZF¥\_`^  
@HWI-EAS443:3:76:343:1655#0/1  
CTTGGAAATGCAGAACCTTCTTCTGACTCAAGGGCCTTG  
+HWI-EAS443:3:76:343:1655#0/1  
abb\_ababbbabbbabbbabbaabaab`\_]\_aaaaa`a  
@HWI-EAS443:3:76:496:331#0/1  
AGCGGGAGTTTTGTTTCAGCATCCAGAACTAACAGGGCTGG

+HWI-EAS443:3:76:496:331#0/1  
W\_`^`Ta[Q]\_SV[¥aUZ^V^¥VZT¥V\_`bZ[¥b¥T]]\_V  
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ATGTGCATGTGTAAATGGTTCTTGCTTTACTGTAATGACC  
+HWI-EAS443:3:76:55:441#0/1  
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@HWI-EAS443:3:76:636:1945#0/1  
GCTCCATTAGACGATACTGGACCACAACCTGCCTGTCTTAT  
+HWI-EAS443:3:76:636:1945#0/1  
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+HWI-EAS443:3:76:639:501#0/1  
^\_a\_ab[baaaaa`XX``Ua¥aa¥`a\_\_aaY^`^S``a`  
@HWI-EAS443:3:76:658:833#0/1  
CGTGGGTGTCTTTCAACCAGAATCTGGAATATCAGATAGG  
+HWI-EAS443:3:76:658:833#0/1  
a¥Y[YaZ`]abba^VZ\_`bb^]a]aaa]aWa\_]ab\_Q`aa  
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GAGGAATTGCCCGTAATTTACGGAAACCACTGACTGTC  
+HWI-EAS443:3:76:738:1797#0/1  
aba`]baa\_ba[]aaaa\_]bba[`¥aba^aa\_`R[ZV\_  
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CCCCTAATTTACGGAAACCACTGACTGTCCAGCAGCAA  
+HWI-EAS443:3:76:900:850#0/1  
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+HWI-EAS443:3:76:909:626#0/1  
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CTTGGTCCATCGGTCATTACAGTAAAGCAAGAACCATTTA  
+HWI-EAS443:3:76:934:1193#0/1  
`a^bbbbbb`a¥b]babbbb[¥]`ab\_aa``babab``\_a  
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+HWI-EAS443:3:76:940:1926#0/1  
]S`\_[\_\_Z\_¥`b`¥¥S]Z^SUZbaW`]W¥]U`^Z\_b¥a`Y  
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+HWI-EAS443:3:76:941:768#0/1  
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@HWI-EAS443:3:76:975:1157#0/1  
CAACTGCCTGTCTTATCATTAGGGCGTGGATTGTCTCCGA  
+HWI-EAS443:3:76:975:1157#0/1  
aabbaabbaa`abbaba`aa\_\_aa`a^`\_`a\_^\_\_X\_X  
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CCCCTAATTTACGGAAACCACTGACTGTCCAGCAGCAA  
+HWI-EAS443:3:76:984:565#0/1  
`bababbbbbbb\_b\_`baaa``aabb``aa]^\_\_¥`^`T\_\_

@HWI-EAS443:3:77:1005:944#0/1  
GAAGAAGTTCTGCATTCCAAGGGGAGCATGATATGAAT  
+HWI-EAS443:3:77:1005:944#0/1  
aa^a¥R`Xaa\_U^^¥`\_\_\_\_`\_`\_\_\_\_Y^\_a]\_a^^\_X  
@HWI-EAS443:3:77:1053:502#0/1  
CAATAAAGCAAGATATCGTAGGAATAAATGAGTGGTCAGG  
+HWI-EAS443:3:77:1053:502#0/1  
aabbbbbbabbabbbbaab```bbbbbbbbbabb[`[b`  
@HWI-EAS443:3:77:1055:676#0/1  
TGGTGTGGATAGGGAGAATAAAAGCATTAGTTCAAGA  
+HWI-EAS443:3:77:1055:676#0/1  
abaX`YbabbXaaa\_`^a```aV]W^a`^a\_`a]^`^]Y\_^  
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+HWI-EAS443:3:77:1066:37#0/1  
aa``aab^b^aaaaaa\_`]a]aa^^`^\_]Y`^]``¥\_`  
@HWI-EAS443:3:77:1084:521#0/1  
CCCCGTAATTTACGGAAACCACTGACTGTCCAGCAGCAA  
+HWI-EAS443:3:77:1084:521#0/1  
aa]b`b^^`abaa\_`a^aa`aaa`\_Y]a`Z[TX]\_¥RHWZ  
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GCGGGAGTTTTGTTCCAGCATCCAGAACTAACAGGGCTGGA  
+HWI-EAS443:3:77:1120:1588#0/1  
a[W\_a[[aaaa]Ia\_baaaaa\_`¥\_`aaa]\_a`\_\_\_\_`\_^  
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GAGGAATTGCCCGTAATTTACGGAAACCACTGACTGTC  
+HWI-EAS443:3:77:1126:1954#0/1  
abaaabbaaabababbbbabababbabb`aa\_baa\_aa\_a  
@HWI-EAS443:3:77:1170:486#0/1  
GCAGAACCTTCTTCTTGACTCAAGGGCCTTGCTAAATGA  
+HWI-EAS443:3:77:1170:486#0/1  
a\_aa^a`V]^`YYY[\_^a\_\_\_\_`a\_`Z^`¥Z\_Z[[[\_^]^`^¥  
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CAGAACCTTCTTCTTGACTCAAGGGCCTTGCTAAATGAC  
+HWI-EAS443:3:77:1198:1191#0/1  
a`^^`bb`bba\_\_b\_ab¥¥W[Y`\_aaaab`a]^J¥a¥a`Y  
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CAGACATATGTTAACATCAGCAACACCACTTTGCTGCTG  
+HWI-EAS443:3:77:1224:1574#0/1  
P\_baa^Z^X^^W\_V\_\_b\_VX\_````PH\_\_`QJXS¥bb`¥S  
@HWI-EAS443:3:77:1232:1505#0/1  
TTCTAGTGAAATCACATGTGTGTGCAGGGATAACTGGCAT  
+HWI-EAS443:3:77:1232:1505#0/1  
aa]aab^aa`a\_\_aa\_a`\_`\_a\_aa\_[aa`\_aa]a`aY\_¥  
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+HWI-EAS443:3:77:1293:1046#0/1  
a^a^Z`b^\_\_\_\_`aaaaa\_`]aa\_`X````\_`]aa\_a\_^  
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+HWI-EAS443:3:77:1355:616#0/1  
aa[\_[\_[Z]bab`a]Xa^`aabaa¥`^\_aaa\_Z\_abV`Z  
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CAAATACGGCAATGGTGTGGATAGGGAGAACTAAAAGC  
+HWI-EAS443:3:77:1356:1066#0/1  
a\_^¥UYa\_^bYN`Z¥X¥Pa¥`YWZPX]W\_¥\_]N[``]Y^`  
@HWI-EAS443:3:77:1401:750#0/1  
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+HWI-EAS443:3:77:1401:750#0/1  
aba`[\_[\_\_\_VTaaaa\_`QPba\_aS\_a\_Wa\_^YY¥R^^\_^  
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+HWI-EAS443:3:77:1464:885#0/1  
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+HWI-EAS443:3:77:1565:1319#0/1  
`^\_T]``a`aa`\_\_a\_]bababbaa`ab``a\_bb\_a]a`\_  
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GTTGTCTTTACTGTATATAGCCCATCCACTAACAGGGCAG  
+HWI-EAS443:3:77:1586:999#0/1  
aaaa\_aaX^`[\_aP`a```Wa`^^¥N]^[\_W\_a]ZGU^  
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+HWI-EAS443:3:77:1595:1106#0/1  
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+HWI-EAS443:3:77:1635:1858#0/1  
``a]`b\_¥babaaa\_aaZ¥aaaaa\_aabaa`]a^aaa^\_\_  
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CATTTACACATGCACATTCAGACTCTTGTGTTCTCAATAT  
+HWI-EAS443:3:77:1715:697#0/1  
Q\_aX`bbb`aa[W\_bb^¥^`\_b`Z^VYVYbVb\_\_b\_ba¥]  
@HWI-EAS443:3:77:1748:1191#0/1  
CTCAATTCAACTTGGGAATCAAATCAGATTGAAACATGC  
+HWI-EAS443:3:77:1748:1191#0/1  
abbbbbbbba¥\_bbbabbbbabaaab^a^abaababaaaa]  
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CAATATATTGAGAACACAAGAGTCTGAATGTGCATGTGTA  
+HWI-EAS443:3:77:1750:774#0/1  
\_]`bbbbbbbbbb\_aabbVab`\_babbbb[`aaa^aa\_a  
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AAGAAGAAGTTCTGCATTCCAAGGGGGAGCATGATATGA  
+HWI-EAS443:3:77:1757:88#0/1  
abaaabaabb`a\_aa]aaa]`a`aa``\_a]`a`\_`^^`¥  
@HWI-EAS443:3:77:1758:712#0/1  
GCTGCTCCCCTAGTCCAGATTGTGTTCTTTGGGTCGC  
+HWI-EAS443:3:77:1758:712#0/1  
^\_`baabb\_¥`¥¥[[\_b^\_ZaaTZ¥Z`\_X]X\_``[`XZ\_Y



@HWI-EAS443:3:77:228:1295#0/1  
CTCTGATTAGTTCAACCCAGAAGCAAGTCTTATACAATC  
+HWI-EAS443:3:77:228:1295#0/1  
a¥a[[`^WZ]FN¥`]\`aa]]`a\_¥¥X¥\_W`¥[a¥UW\_XY[  
@HWI-EAS443:3:77:241:1522#0/1  
ATTATGCCGTTGTACTTTAACACAGCCACTGCCCCATTGT  
+HWI-EAS443:3:77:241:1522#0/1  
aa\_`\_abaa\_\_a]aaa\_`aaaaa^aa``X\_\_`]^Y]]Y  
@HWI-EAS443:3:77:286:1797#0/1  
GGCCTTGCTAAATGACAAACATTCCAATGGAACCATTAAA  
+HWI-EAS443:3:77:286:1797#0/1  
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ACTGACTGTCCAGCAGCAAAGTTGGTGTGCTGATGTTAA  
+HWI-EAS443:3:77:290:1238#0/1  
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CTTTTACTCCATTTGCTCCATTAGACGATACTGGACCACA  
+HWI-EAS443:3:77:302:638#0/1  
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+HWI-EAS443:3:77:354:1942#0/1  
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AACAGACTATCAAGAGTTGGAGAAACAATATATTGAGA  
+HWI-EAS443:3:77:367:1515#0/1  
a^]¥a^aba`^¥a`a][Y`YG¥UQT]^V^^[^\_\_]\_\_OL  
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+HWI-EAS443:3:77:415:251#0/1  
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+HWI-EAS443:3:77:443:552#0/1  
aaaab`\_`^H\_aaaaa^]aa¥\_a¥aaW\_\_\_aa\_\_MV\_^\_Z  
@HWI-EAS443:3:77:457:836#0/1  
GATGATTTGGGATCCGAACGGATGGACTGGGACAGACAAT  
+HWI-EAS443:3:77:457:836#0/1  
\_\_R¥``^`aW`bab`\_]\_]\_Y¥UVV\_\_a]XZ`Va\_][\_U  
@HWI-EAS443:3:77:47:614#0/1  
CATATCCTTTTGTGGTGTAAACAGTGACACTGTGGGTTGG  
+HWI-EAS443:3:77:47:614#0/1  
abaa\_`ab`\_ZVaa\_]ZU^a`a¥a`Z¥[`Y``WQa]  
@HWI-EAS443:3:77:47:631#0/1  
AAGAGTCTGAATGTGCATGTGTAATGGTTCTTGCTTTAC  
+HWI-EAS443:3:77:47:631#0/1  
`aaaW\_abba^Xa\_baaaa]a][^T¥WW\_`a\_X[``\_`[^  
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TAAAGACAGGAGCCCATATCGAACCTAATGAGCTGCCT

+HWI-EAS443:3:77:490:1232#0/1  
V\_^VX\_a^ZZ\_X[XVa\_¥U¥aJLY\_]`WY]Z]ZV\_ZOX]  
@HWI-EAS443:3:77:516:1370#0/1  
GGGAGTTTTGTTTCAGCATCCAGAATAACAGGGCTGGATT  
+HWI-EAS443:3:77:516:1370#0/1  
abaaa\_`\_]\_^`b]X\_[¥a`\_¥XQ\_aaa`a`]a\_\_`\_]^\_  
@HWI-EAS443:3:77:546:1406#0/1  
CTTTCAACCAGAATCTGGAATATCAGATAGGATACATATG  
+HWI-EAS443:3:77:546:1406#0/1  
ab^\_aaZ^ba\_]`]aaa]X\_a]aaa`^`a`]`a`a`Z`]V  
@HWI-EAS443:3:77:585:438#0/1  
CGGGCAATTCCTCTCTCTGCCCTGTTAGTGGATGGGCTAT  
+HWI-EAS443:3:77:585:438#0/1  
^\_abbbbb`¥^abbbbaY^\_bbZaT]aZ^b\_¥`¥Z\_[TUS  
@HWI-EAS443:3:77:610:59#0/1  
CAAATACGGCAATGGTGTGGATAGGGAGAATAAAAGC  
+HWI-EAS443:3:77:610:59#0/1  
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@HWI-EAS443:3:77:635:888#0/1  
TCTCCATACAACTCAAGATTTGAGTCAGTCGCTTGGTCAG  
+HWI-EAS443:3:77:635:888#0/1  
^abbbba\_`\_]`^UV¥[aaaaba`a\_aa^M`]`a^\_¥TZU]`  
@HWI-EAS443:3:77:638:759#0/1  
CATTTAGCAAGGCCCTTGAGTCAAGAAGAAGTTCTGCA  
+HWI-EAS443:3:77:638:759#0/1  
aa``^aaa`a`\_a\_aaa`a\_aUa`Q`^`\_]¥``Y¥¥]\_]`  
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CTGTTGAAAGACACCCACGGTCGATTCGAGCCATGCCAG  
+HWI-EAS443:3:77:645:1076#0/1  
a`baabbabbbbbbbba`W`a```a[```aa^a^a]\_  
@HWI-EAS443:3:77:675:330#0/1  
GAATGTGCATGTGTAATGGTTCTTGCTTTACTGTAATGA  
+HWI-EAS443:3:77:675:330#0/1  
aa`a\_]aaaa]M\_JLS^`RQ\_\_\_^\_]`\_`^[QXQ\_\_\_Y¥  
@HWI-EAS443:3:77:725:1595#0/1  
ATTGTCTGGGCCAGAAATCCAATTGTTAGCCAATTGATG  
+HWI-EAS443:3:77:725:1595#0/1  
aaaa^aa¥\_\_`a^\_\_\_^\_a^aa`a[]`\_`^]`^¥`U`XYVY  
@HWI-EAS443:3:77:72:1547#0/1  
TCCCAAATCATCTCAAACCGTTTCTTGAACATAATGCTTT  
+HWI-EAS443:3:77:72:1547#0/1  
`baaZ^\_Saabbaa]ZM]`a`^\_Y^`Y]aa\_\_^W¥`a^``  
@HWI-EAS443:3:77:739:1135#0/1  
CAGGGATAACTGGCATGGCTCGAATCGACCGTGGGTGTCT  
+HWI-EAS443:3:77:739:1135#0/1  
`¥\_^\_^\_aaaaa`aaa`a]YR¥XTTTW¥TO¥`^J[QVY  
@HWI-EAS443:3:77:747:872#0/1  
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+HWI-EAS443:3:77:747:872#0/1  
a\_bba`aba```aab^a^`¥^bab`S\_^a`\_]`a^aaa]]

@HWI-EAS443:3:77:887:1053#0/1  
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+HWI-EAS443:3:77:887:1053#0/1  
aaaa^^aaa\_aa]`aaUaa\_a`]\_aa`\_^`\_`\_`\_`^`Z\_  
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+HWI-EAS443:3:77:920:590#0/1  
a`aaa`abaabaaaaaaaaaaaaaaa\_aaa^a\_\_\_aa\_  
@HWI-EAS443:3:77:940:1881#0/1  
GGGGGATGTGTTTGTGCATAAGGGAACCATTTCATATCATGC  
+HWI-EAS443:3:77:940:1881#0/1  
a\_T]bbaaI]JVU`]SY`YP^a\_]¥IVaa\_\_\_\_`\_\_JZ\_Ya  
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GGGAACCTCACCAATAGGACAGCTCATTAGGGTTCGATAT  
+HWI-EAS443:3:77:947:1282#0/1  
^`[aaab`]a`a`aa^Xa\_a`\_`\_`\_`[\_aaW]\_a\_^aZ  
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+HWI-EAS443:3:78:1074:807#0/1  
a\_a]Za`a\_a[a^`a`\_`\_`[[¥^\_a`¥¥\_\_¥^¥^\_UV  
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+HWI-EAS443:3:78:1104:1351#0/1  
aaaaaaaa]`\_a`a`\_a\_aa[```\_¥a]`\_`\_`a`]\_\_ZZ¥  
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GTCAGGATATAGCGGGAGTTTTGTTCCAGCATCCAGAACTA  
+HWI-EAS443:3:78:1138:262#0/1  
`\_a\_ba\_a\_a\_a[aaa]aWa`\_KZaX\_^T^^¥Z]^]\_N\_\_  
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GCTTGGTCAGCAAGTGCTTGTGCATGATGGCATCAATTGGC  
+HWI-EAS443:3:78:1213:1823#0/1  
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+HWI-EAS443:3:78:1251:1140#0/1  
a]\_aaS\_aa\_\_a\_]`[a¥\_]\_¥Z`]\_\_¥]^\_^^`\_]YXV  
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+HWI-EAS443:3:78:1327:1764#0/1  
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+HWI-EAS443:3:78:1380:1660#0/1  
a`aa^aaa\_aaa]aaaa\_\_a\_]\_] ^Y`^`\_a\_`]ZU\_YX\_  
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`a\_a]a` `[`aa\_[\_a^a[``\_] ^\_a\_UYW¥PaaN\_XU\_`  
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+HWI-EAS443:3:78:1419:2035#0/1  
aab[ `S] `aJS` \_\_a\_aaT]^WU\_\_ `a\_\_\_ `VG\_Z]] \_^W  
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+HWI-EAS443:3:78:1447:669#0/1  
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+HWI-EAS443:3:78:1733:1443#0/1  
a[ `Ta\_\_a[¥^\_` `^^\_a¥` ¥¥¥¥BBBBBBBBBBBBBBB  
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+HWI-EAS443:3:78:19:963#0/1  
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+HWI-EAS443:3:78:224:160#0/1  
abba` ¥^baaaaaa\_a` \_a\_a` \_\_\_\_]\_\_\_\_ `[aU\_` `]^  
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GACCAAGCGACTGACTCAAATCTTGAGTTGTATGGAGAGG  
+HWI-EAS443:3:78:24:1896#0/1  
aabbbaab¥aba]abababaab\_aa` `^aa¥` adWaa\_\_]  
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+HWI-EAS443:3:78:266:47#0/1  
a` ]aWJWa]]] [\_a^[NZ]Y¥V[[^VTSTZYY]^VPVFUU  
@HWI-EAS443:3:78:269:1638#0/1  
TATTGAGAACAAGAGTCTGAATGTGCATGTGTAAATGG  
+HWI-EAS443:3:78:269:1638#0/1  
T¥`WPZ\_W¥` ¥a` [^abP` [^][^a^a` ]Y\_S^Xaaa¥¥Q  
@HWI-EAS443:3:78:295:1244#0/1  
GCCAGAAATTCCAATTGTTAGCCAATTGATGCCATCATGA  
+HWI-EAS443:3:78:295:1244#0/1  
aa^¥TX\_^aab` ¥] `aa]\_\_ `aaaa^¥Y^\_\_ `a` a` ^^[`

@HWI-EAS443:3:78:330:105#0/1  
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+HWI-EAS443:3:78:338:898#0/1  
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+HWI-EAS443:3:78:371:682#0/1  
\_\_aa[`a¥PV^`XWaa`aaaa`aa]\_a^)``^Y¥Y\_^`]  
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ACATAATCTCAATATGGATTAGCCACTCAATTCAACTTGG  
+HWI-EAS443:3:78:393:1847#0/1  
a\_WZ``¥a^`¥[¥\_\_[YXZX]¥^^^X`[[[T`ZTZ¥XUW  
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+HWI-EAS443:3:78:44:430#0/1  
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+HWI-EAS443:3:78:454:581#0/1  
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+HWI-EAS443:3:78:477:2020#0/1  
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+HWI-EAS443:3:78:478:1758#0/1  
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+HWI-EAS443:3:78:568:480#0/1  
aX¥``ab][U^a``]^`aaa\_\_a`a`a\_a]`^¥``]]\_  
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+HWI-EAS443:3:78:574:362#0/1  
a`aaa\_aa`a`a^\_`a`a^aa\_a`a\_\_`^`^^`\_^`^^V[  
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+HWI-EAS443:3:78:580:430#0/1  
ab`^aaaaaaa¥aa`a`a`aaaa`a`aaa\_\_`\_¥``\_\_^  
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+HWI-EAS443:3:78:615:1718#0/1  
a`^^]\_Raaa\_aa`Y\_aaa`U\_]a¥[`^^U``a¥Z¥`]^\_  
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+HWI-EAS443:3:78:65:718#0/1  
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+HWI-EAS443:3:78:671:638#0/1  
ZQ¥aa`aa`\_aa\_\_\_\_\_a`^^^\_a^`[^`X`^\_]`\_`  
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Z\_b¥bVbb][HRX`[^[SWb\_]¥`X[]aaa¥`¥VI[\_PV  
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aba]¥\_`````aa[[]`Z\_Z`a[a^¥Z`````\_a`]XTZ`  
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+HWI-EAS443:3:78:766:1430#0/1  
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]`babaab\_][aaa``aaaaaa`^``aa`\_``aa\_a[\_^  
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+HWI-EAS443:3:78:833:1401#0/1  
a`aa^]\_b\_aaa¥`aaa`][`^aa`a`[¥a\_\_`^`¥``  
@HWI-EAS443:3:78:882:1772#0/1  
GACAGACAATAACTTCTCAATAAAGCAAGATATCGTAGGA  
+HWI-EAS443:3:78:882:1772#0/1  
\_^^\_^^b]¥ab`Y``¥\_\_`aaaa```^Y``Yaa^aTYa¥a  
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+HWI-EAS443:3:78:88:78#0/1  
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ab`aa[Z¥`\_bbbaX]\_X^bbba^a]`b[]VVaN`a]aU  
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+HWI-EAS443:3:78:946:1465#0/1  
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aaa`a`aa\_\_a\_a`a\_\_aaaS\_]\_^`aX`a^`^^¥Z\_`  
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a[[\_abZ^`\_¥`Zaaa[`FZ\_`^P¥[T¥VWVY]RYQ^V¥^  
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+HWI-EAS443:3:79:1107:688#0/1  
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aba`]^b\_aaW`ZT[^aa`\_]R]W¥R^aZ`[ZRSZV]¥  
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+HWI-EAS443:3:79:1135:1880#0/1  
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+HWI-EAS443:3:79:1164:972#0/1  
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+HWI-EAS443:3:79:1182:1680#0/1  
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+HWI-EAS443:3:79:128:957#0/1  
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+HWI-EAS443:3:79:144:1911#0/1  
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\_a^X\_b¥Y\_¥b]bbabaabaUV`a^Uaa`a`^[\_`a`Y  
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+HWI-EAS443:3:79:1496:180#0/1  
\_J¥abab^`\_\_Z^YaZ`¥b`¥abb[ab`^b\_`aa^\_]  
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+HWI-EAS443:3:79:1614:1530#0/1  
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@HWI-EAS443:3:79:1620:1374#0/1  
CTCAATATGGATTAGCCACTCAATTCAACTGGGAATCAA  
+HWI-EAS443:3:79:1620:1374#0/1  
^^b\_bb`\_bbbbb`\_¥`ba^abb\_bbabbbbaa\_a[`a  
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CAGGAGCCCATATCGAACCTAATGAGCTGCCTATTGGT  
+HWI-EAS443:3:79:1626:1235#0/1  
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+HWI-EAS443:3:79:1638:1396#0/1  
`a`a`\_b`a\_`]`aa¥X¥]ab`¥\_¥]^`bX\_aa`\_DDX\_Y



@HWI-EAS443:3:79:165:798#0/1  
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a`b`aaaa\_a`aa^\_a`\_]a`\_`\_`\_]`\_^\_ZZ\_\_\_\_\_]^]  
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SJ\_bbZGL`bbabU\_]b]Za¥a^^`Y[[a`YU]Va]^`^LW  
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+HWI-EAS443:3:79:1692:313#0/1  
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+HWI-EAS443:3:79:1761:1096#0/1  
a`baa^\_Vbaa`\_a`aba\_X]¥Ya`Y\_`]\_]`\_¥\_a  
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+HWI-EAS443:3:79:1763:1072#0/1  
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+HWI-EAS443:3:79:210:145#0/1  
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+HWI-EAS443:3:79:241:514#0/1  
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+HWI-EAS443:3:79:315:865#0/1  
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@HWI-EAS443:3:79:359:43#0/1  
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+HWI-EAS443:3:79:359:43#0/1  
a`a`aaaa^aaa\_a`aaa``````a\_Za\_Y`^`^^`^`^`  
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+HWI-EAS443:3:79:389:209#0/1  
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+HWI-EAS443:3:79:455:322#0/1  
`\_V\_`\_\_\_\_\_a^[aaaa`aa[[]` ``]` `\_\_V[¥\_[[YUY^  
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+HWI-EAS443:3:79:494:1254#0/1  
aa]aabbY^`[baa`aa`a`Xa\_¥\_`\_aaaa^V[a^]^`\_  
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+HWI-EAS443:3:79:520:1027#0/1  
a]R]^WI\_[a`]a\_ZTJTH¥\_¥`YZ¥`a]¥]Wa¥W\_WWXa  
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+HWI-EAS443:3:79:574:1717#0/1  
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aa\_^[\_X`]V\_Yb\_[\_a^abb\_RXab\_abb¥]abYaSa\_  
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+HWI-EAS443:3:79:598:1765#0/1  
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+HWI-EAS443:3:79:62:25#0/1  
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+HWI-EAS443:3:79:635:1382#0/1  
T\_V¥Z`\_^UHW¥Zabb`Z^¥ZW^b`Uabab¥]aXaK^\_T¥  
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+HWI-EAS443:3:79:662:830#0/1  
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+HWI-EAS443:3:79:819:963#0/1  
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+HWI-EAS443:3:79:86:1277#0/1  
\_a`a]^aT\_Za`ZN¥`\_]S]]\_¥[`\_TW[]`¥¥^]^][  
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+HWI-EAS443:3:7:1183:227#0/1  
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+HWI-EAS443:3:7:241:1679#0/1  
aaaa`a\_\_a\_a`¥`\_`\_`a`a¥\_X[^\_^\_Q¥¥\_¥Z]YW¥  
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aba\_bb`Waba`baa`\_ab`a`a\_¥baaabYaa\_aY`ab[  
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aaa]a[RaUVaa\_]\_]`W\_¥X^\_]\_\_R^X^V][TMYR^  
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+HWI-EAS443:3:7:400:653#0/1  
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a[K\_X^YZa\_``\_X\_R\_Q¥\_\_\_\_\_Za^^ZW\_]\_SU^¥¥[  
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+HWI-EAS443:3:7:56:416#0/1  
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+HWI-EAS443:3:7:661:124#0/1  
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+HWI-EAS443:3:7:673:1585#0/1  
ab`aaaXa`baaa[R]\_aa[`\_V]\_\_a¥`aZ`^\_I\_\_\_]^]  
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J\_\_a`abbaa[^a`]^X^\_¥[YSZaZ¥U`^\_^`aZ\_aXQ\_  
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aabaa)`aa]aaaa[\_\_aa\_\_aa[a`^\_\_]^Y`]¥`^]\_Z  
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+HWI-EAS443:3:7:745:1136#0/1  
abaaaa\_a\_\_ab\_\_`\_aaaS\_\_\_\_]\_\_[\_^\_\_^\_^\_]S^^  
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\_`aaabbbbbbab[a^bb^a``a\_\_a^bb[a\_a`¥^\_BBB  
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a^^`\_W\_[TT`\_\_`bbaabbaQ]^¥NX[[]WYV\_TX^[U  
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+HWI-EAS443:3:80:1170:263#0/1  
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+HWI-EAS443:3:80:1195:1691#0/1  
\_\_bba]abba`FW¥0a\_ba\_^^\_aaG[aaP[]aaa\_\_YU[  
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+HWI-EAS443:3:80:1359:1145#0/1  
Z^aa`baa¥S\_bba^```a[S[ZU]\_``aZbVW¥`R¥Q]  
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+HWI-EAS443:3:80:138:1796#0/1  
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+HWI-EAS443:3:80:1429:818#0/1  
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+HWI-EAS443:3:80:1487:1749#0/1  
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+HWI-EAS443:3:80:1508:1424#0/1  
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+HWI-EAS443:3:80:1614:1042#0/1  
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+HWI-EAS443:3:80:161:1297#0/1  
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GAGGAATTGCCCGCTAATTTACGGAAACCACTGACTGTC  
+HWI-EAS443:3:80:1666:826#0/1  
\_`aZ`\_b¥]^¥^TZ\_^^aa`¥^VUaY\_ZVTWa^XXM¥`[N  
@HWI-EAS443:3:80:1709:469#0/1  
GCTCCATTAGACGATACTGGACCACAACCTGCCTGTCTTAT  
+HWI-EAS443:3:80:1709:469#0/1  
a`a[X\_baaaa`a\_]Y0^VZU[[^W[[L[XNV^[TS^`YT  
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CAATCAACTTGGGAATCAAAATCAGATTGAAACATGCAA  
+HWI-EAS443:3:80:1749:1502#0/1  
ab¥^a]Y`abYVaaaaa`^]\_`a`b`])`a[\_aaa¥a\_  
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TTGGGAATCAAAATCAGATTGAAACATGCAATCAAAGCGT  
+HWI-EAS443:3:80:1778:464#0/1  
abbaaabababaa`bbaaaaaa\_a`a\_a\_a``a`\_\_\_\_  
@HWI-EAS443:3:80:256:1283#0/1  
ATCAGATTGAAACATGCAATCAAAGCGTCATTACTTATGA  
+HWI-EAS443:3:80:256:1283#0/1  
aaa`aaaa`a`\_¥`aaa\_aa`])`a\_a`a`\_a¥¥`^]  
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GGGCTCCTGTCTTTAATGGTTCATTGGAATGTTTGTCTAT  
+HWI-EAS443:3:80:262:979#0/1  
aV\_NGY]Z`QUQYYLQOW^MQUSTWPPTL^NJMZP^QNVR  
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+HWI-EAS443:3:80:265:1138#0/1  
\_XW`\_]\_UYLZRW]Y]XaRY]VTSWUaba^P]\_K¥G`LR  
@HWI-EAS443:3:80:330:1830#0/1  
CAACTGCCTGTCTTATCATTAGGGCGTGGATTGTCTCCGA  
+HWI-EAS443:3:80:330:1830#0/1  
aba`\_]```\_]a`\_^\_aa\_\_\_^WUaYY¥]^]]¥Q]X^\_ZY  
@HWI-EAS443:3:80:338:827#0/1  
AGACGATACTGGACCACAACCTGCCTGTCTTATCATTAGGG  
+HWI-EAS443:3:80:338:827#0/1  
abaa\_V]a]\_T¥aa`X`\_a`\_`[\_^)`^[\_`\_`^S¥`XTN\_



@HWI-EAS443:3:80:340:1760#0/1  
AGCGGGAGCAGCATATCCTTTTGTGGTGTAAACAGTGACA  
+HWI-EAS443:3:80:340:1760#0/1  
]\_¥FY\_\_T\_T\_\_¥`]a^WZ\_Q`\_M\_UY\_\_aa\_]PTU^¥a  
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+HWI-EAS443:3:80:395:1844#0/1  
aaa`¥][`a]aW`aI`\_a`\_\_a\_YWU[X¥¥[\_^]X\_]W  
@HWI-EAS443:3:80:407:988#0/1  
ATTTACGGAACCACTGACTGTCCAGCAGCAAAGTTGGT  
+HWI-EAS443:3:80:407:988#0/1  
XZ\_]aaaba¥ba`a\_\_\_\_`\_\_WaVZ^VO\_]YUNNRSL¥[[W  
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ATTCCAGATTCTGGTTGAAAGACACCCACGGTCGATTCTGA  
+HWI-EAS443:3:80:450:1292#0/1  
aa`aaaa^aaaaa\_aaaaaa`aa`a``¥[\_\_^[\_`Z^  
@HWI-EAS443:3:80:483:145#0/1  
AAGAAGAAGTTCTGCATTCCAAGGGGAGCATGATATGA  
+HWI-EAS443:3:80:483:145#0/1  
a`a`aa[`a]^`\_`a\_a`\_]`\_¥^]ZW^\_]^^^]  
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+HWI-EAS443:3:80:496:1365#0/1  
^`b^]ZX\_P^aaaa¥KZa¥``aaaa¥\_a``[`a`a]`a`Z  
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GCCTTGCTAAATGACAAACATTCCAATGGAACCATTAAAG  
+HWI-EAS443:3:80:521:1440#0/1  
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ATTCATATCATGCTCCCCCTTGAATGCAGAACCTTCTTC  
+HWI-EAS443:3:80:557:1048#0/1  
Q`^V¥a¥\_\_^[`Z]^a^\_UNYaa\_Z\_\_V]a[X^Z\_[ZXW  
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TAGCGGGCAATTCTCTCTGCCCCTGTTAGTGGATGGGC  
+HWI-EAS443:3:80:559:499#0/1  
aaa`\_`\_`¥baabba`aba\_aaa`\_aaaa`^]aa]`aa[N  
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+HWI-EAS443:3:80:582:396#0/1  
U`\_a\_a`¥X¥\_I¥¥W¥¥[ST\_XZ`]LUP[a^[OMZPU\_Y`  
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GCTTGGTCAGCAAGTGTGTCATGATGGCATCAATTGGC  
+HWI-EAS443:3:80:599:571#0/1  
\_]\_^a`Y]¥VQZS\_Y\_VPV]R`X^`WYXY\_\_\_\_\_^[][[\_[N  
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a`baaa`\_a``aa\_aa\_¥`\_]`^\_a``\_\_^]Y¥`\_\_  
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CAGGAGCATTCTCATAGTGATAATTAGGGCATTTCATTT  
+HWI-EAS443:3:80:680:561#0/1  
\_\_^P[aaZ`\_W¥UWS¥W]Y`ZaaUXMYF]X[ZZaa¥ZX]Z  
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AACTGCCTGTCTTATCATTAGGGCGTGGATTGTCTCCGAA  
+HWI-EAS443:3:80:682:1182#0/1  
Z`¥`\_`bb`abbbbabbbab[R[`]Yaaa]aa^`a]^`¥  
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+HWI-EAS443:3:80:704:691#0/1  
abbaaaaa`\_`aaa`aaaaaa\_\_a`[\_a\_a`a[\_^¥]¥  
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TCATGACAAGCACTTGCTGACCAAGCGACTGACTCAAATC  
+HWI-EAS443:3:80:707:370#0/1  
a`bbbabbbbbaabaabbaa`\_baa^a`abaaaabbabaa  
@HWI-EAS443:3:80:730:877#0/1  
GATTAGTTCAACCCAGAAGCAAGTCTTATACAATCCAGC  
+HWI-EAS443:3:80:730:877#0/1  
\_]a`ab¥`aaaa`aa\_`\_]¥``WXa`a\_a¥a\_\_\_Y\_^]  
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YYY\_¥`R¥a^^[`[Z^^[a`¥`^^\_]bb]\_aaaa^aabaa  
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+HWI-EAS443:3:80:873:722#0/1  
a^^aa^`\_]`\_`^`^`\_]`^`¥`[\_]`\_`^`\_`\_]X`\_\_  
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^a\_YS^\_ab`a^aa^¥ba\_b`])`aaaZZ\_a```¥U]\_a`  
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+HWI-EAS443:3:80:963:1243#0/1  
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+HWI-EAS443:3:80:967:1457#0/1  
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@HWI-EAS443:3:81:1023:476#0/1  
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+HWI-EAS443:3:81:1195:526#0/1  
S\_b`YT¥aYa`U`aVVVba`baaXU¥b\_S¥`^`^`\_a\_HTa  
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TGCCTGTCTTATCATTAGGGCGTGGATTGTCTCCGAAAAT  
+HWI-EAS443:3:81:1248:941#0/1  
]Q^[]a`aaa`^`aa`aZ¥\_\_Z^[]\_\_\_\_V\_`]S\_^U^^\_  
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+HWI-EAS443:3:81:1251:1421#0/1  
¥X^OVW`bbaab`a\_`][]¥[]JWWROS\_V]N]YWH^UV[  
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TGCCCCGCTAATTTACGGAACCACTGACTGTCCAGCAGC  
+HWI-EAS443:3:81:126:2033#0/1  
a`aa`\_`a`\_aba`\_[]^a`\_`\_¥]¥ZQW\_XGQZTY  
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+HWI-EAS443:3:81:1285:639#0/1  
aa]a\_aa\_a¥a`\_`aS^^U\_^¥U[YP[S¥^UUTST¥W^U  
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GACGATACTGGACCACAACTGCCTGTCTTATCATTAGGGC  
+HWI-EAS443:3:81:1332:1243#0/1  
¥¥]¥^^]\_Za\_IV`Z¥\_RX\_aa^X¥X^\_Z]T`aa^^ZUE  
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a[b^a`\_a\_I^\_]abaabab`aab¥a`\_aa[0][aa\_a\_W  
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+HWI-EAS443:3:81:1481:1853#0/1  
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+HWI-EAS443:3:81:1517:1016#0/1  
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+HWI-EAS443:3:81:1525:822#0/1  
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+HWI-EAS443:3:81:1602:288#0/1  
`a`ab\_aa]ZS¥\_aP]a`ZX`^X`]YS\_H`Z`\_a`aZZ^  
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a^`\_[Y]`¥`YW¥`\_Z]\_^\_W`R¥N[\_]YVUG[ZOLMR  
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+HWI-EAS443:3:81:230:1162#0/1  
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+HWI-EAS443:3:81:31:1278#0/1  
ab``\_bba[a`[]a]a`^`[]`a`\_\_`a]¥¥Y^`\_Z\_U`^  
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CACAACTGCCTGTCTTATCATTAGGGCGTGGATTGTCTCC  
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aaaa]aaaa`a\_a`aa`\_`\_`^`\_T`\_]X]^\_]ZW^]]V  
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+HWI-EAS443:3:81:350:1433#0/1  
a^aa¥aZaa¥ba`¥]`Y`a^aa`\_GUQ]\_`]^¥^]Y¥X[]  
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+HWI-EAS443:3:81:447:197#0/1  
a\_]W`^¥QW`bb^WVZ^ZaZT¥Z]]WWW\_a`^`W^X[`WL  
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+HWI-EAS443:3:81:483:845#0/1  
aVbY^b`^X\_PTa\_V`YXWa`^ZRxaZOZbaaa¥`]^¥`a  
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TTCGAGCCATGCCAGTTATCCCTGCACACACATGTGATTT  
+HWI-EAS443:3:81:510:717#0/1  
`a¥ZZb¥`babaaaa`a\_aabaabba¥[^\_baaTb\_a[a

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+HWI-EAS443:3:81:519:389#0/1  
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+HWI-EAS443:3:81:523:289#0/1  
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+HWI-EAS443:3:81:542:238#0/1  
a`[aaa`a`a]aa¥^a\_¥` `^¥^Y^^W¥¥]\_[V¥^^XW¥W  
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CTGGACCACAACCTGCCTGTCTTATCATTAGGGCGTGGATT  
+HWI-EAS443:3:81:658:1349#0/1  
a\_TZ¥¥U`a^`\_SX[XYVaY¥]WS]\_\_^XRUZ[URNGU\_  
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CTCCTGTCTTTAATGGTTCCATTGGAATGTTTGTCTTTA  
+HWI-EAS443:3:81:729:995#0/1  
aaaaa`\_`aaaaa`aZaa]^`\_¥]^¥\_a\_\_^Q[`[\_`^\_  
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CTCCTGTCTTTAATGGTTCCATTGGAATGTTTGTCTTTA  
+HWI-EAS443:3:81:741:1633#0/1  
`¥`^SO^a^[]]\_[SYP[[]YUY\_YTMVTRY]NVOLQRIV  
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+HWI-EAS443:3:81:753:1588#0/1  
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GGGCTGGATTGTATAAGACCTTGCTTCTGGGTTGAACTAA  
+HWI-EAS443:3:81:765:1203#0/1  
`¥\_\_`\_Z]^`^¥][Q^Z\_` `XX\_`W][^]ZW\_ba¥¥`^  
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+HWI-EAS443:3:81:816:660#0/1  
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CAACTGCCTGTCTTATCATTAGGGCGTGGATTGTCTCCGA  
+HWI-EAS443:3:81:863:256#0/1  
a^\_]\_ab]a` `]aa\_Y\_` `W^a` ` ` `[\_` ` `XVZZYT\_V  
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+HWI-EAS443:3:82:1154:205#0/1  
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+HWI-EAS443:3:82:1185:825#0/1  
¥`\_`bab]bbbb```abbaaU[b`b`bba\_\_b`\_`Uaabab  
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+HWI-EAS443:3:82:1240:205#0/1  
a^P`a\_baaaa\_YXaa]ab[\_b`aa`\_`¥]a^a\_a\_¥`a`  
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+HWI-EAS443:3:82:1327:1955#0/1  
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+HWI-EAS443:3:82:139:1703#0/1  
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+HWI-EAS443:3:82:1414:1040#0/1  
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X\_]b^[Z\_ax[¥[\_^Tb`bb\_b`ba`bb¥Y`a\_^`aaYSa  
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+HWI-EAS443:3:82:1456:1037#0/1  
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+HWI-EAS443:3:82:1481:1119#0/1  
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+HWI-EAS443:3:82:1491:193#0/1  
a`Wa`W`aa\_bXaa`^M¥aa\_ba`Y^aN\_\_aaa\_Y\_^Z]¥  
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+HWI-EAS443:3:82:1500:94#0/1  
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+HWI-EAS443:3:82:1505:680#0/1  
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+HWI-EAS443:3:82:1586:1574#0/1  
a\_Labbbabba`aaaa\_babab^^aaaaaab`aaa`\_a¥  
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+HWI-EAS443:3:82:162:431#0/1  
aa]HYa¥N\_¥[a[V[[a¥X^[TZQ]a]^WQ[[[``URTY^Y  
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+HWI-EAS443:3:82:311:684#0/1  
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+HWI-EAS443:3:82:312:37#0/1  
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+HWI-EAS443:3:82:396:700#0/1  
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+HWI-EAS443:3:82:627:858#0/1  
a\_[^]^[^]a]]S0¥ZP]S¥NW`Z`\_Y\_\_\_X]V[OXN¥\_`  
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a`\_`\_]`\_\_^`]`^^^]]`^^\_]`^^`\_^^\_[^  
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+HWI-EAS443:3:82:712:1581#0/1  
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+HWI-EAS443:3:82:746:1905#0/1  
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+HWI-EAS443:3:82:763:410#0/1  
abb\_\_babba^babbbbbb¥bbabbabbbbababa\_abba  
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a^YLWZ`UX\_[NXOXX]\_U\_XYWVW`SYRZ\_SWZQRV]]  
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+HWI-EAS443:3:83:1036:1221#0/1  
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Z\_a`]`a`a¥`b`\_bb`a`]`^bbbb\_`abUbbbb`  
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+HWI-EAS443:3:83:1158:436#0/1  
a`S^abbb]`b¥b\_bbb]aa`aa`aba`babb`aaa^a  
@HWI-EAS443:3:83:1207:327#0/1  
GCAGAACCTTCTTCTTGACTCAAGGGGCCTTGCTAAATGA  
+HWI-EAS443:3:83:1207:327#0/1  
a\_aaaa`^aa\_a^aaa`]\_^`Y\_`¥^XW\_\_`^\_\_¥^`^\_  
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GTTTCGATATGGGCTCCTGTCTTTAATGGTCCATTGGAAT  
+HWI-EAS443:3:83:1249:952#0/1  
^Y¥XV^`a]V]`^`][\_JPX^]SUU`UVVZ[]`\_a]]  
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+HWI-EAS443:3:83:1434:249#0/1  
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+HWI-EAS443:3:83:1474:1250#0/1  
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+HWI-EAS443:3:83:1479:21#0/1  
a\_XTb^V\_S\_b[PZabaaG\_]ba`]TZ[\_`VY\_^a\_a[[P  
@HWI-EAS443:3:83:1495:963#0/1  
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+HWI-EAS443:3:83:1495:963#0/1  
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+HWI-EAS443:3:83:1632:1668#0/1  
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+HWI-EAS443:3:83:1641:56#0/1  
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+HWI-EAS443:3:83:343:499#0/1  
ab]\_¥¥abbabbaabba¥]`ab\_`a^Q^W`]W]^UXX¥\_¥  
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CTCTGATTAGTTCAACCCAGAAGCAAGGTCTTATACAATC  
+HWI-EAS443:3:83:376:776#0/1  
W\_a`abb`b`Z^`V^\_a`¥Z\_aaYT\_^[]`^`a¥KY^VZ^  
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+HWI-EAS443:3:83:532:1181#0/1  
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+HWI-EAS443:3:83:564:1062#0/1  
aaa`aZaa`aaaaaa^]`^^`^^\_aa\_`\_\_`^^`[¥\_`X  
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+HWI-EAS443:3:83:574:27#0/1  
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+HWI-EAS443:3:83:581:1312#0/1  
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+HWI-EAS443:3:83:584:1786#0/1  
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+HWI-EAS443:3:83:611:306#0/1  
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@HWI-EAS443:3:83:730:1501#0/1  
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+HWI-EAS443:3:83:730:1501#0/1  
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@HWI-EAS443:3:83:774:685#0/1  
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+HWI-EAS443:3:83:774:685#0/1  
`SW`a[^\_NSVN\_aa``[¥SL\_^`[^a^WV[^^\_RDU\_a  
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ATCCGAACGGATGGACTGGGACAGACAATAACTTCTCAAT  
+HWI-EAS443:3:83:859:574#0/1  
abb^]PY`\_]\_R[Y][`]¥\_]\_\_a^^YPWY^\_]^^]\_]\_  
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+HWI-EAS443:3:83:90:394#0/1  
`a[\_a`aaaa\_\_\_a\_aa\_aaaaa\_a^a`\_]\_]Y``^``  
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+HWI-EAS443:3:83:926:745#0/1  
a`aaaa`aaa\_a\_aabaa\_aa````]\_a\_aab^b\_a]a¥aZ  
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+HWI-EAS443:3:83:943:1591#0/1  
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+HWI-EAS443:3:84:1082:176#0/1  
aXbabbbaa\_`bb`a\_XVTU`\_aaaa^Z`a^a]]a^\_^  
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+HWI-EAS443:3:84:1105:310#0/1  
a[a\_a`a\_\_aaaa\_`\_`\_\_`\_\_\_`\_\_\_`^\_\_^]aX`\_Z\_  
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+HWI-EAS443:3:84:1109:17#0/1  
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a`aaa`a¥^^[VYXXWUY¥`^YW[N[Y`]`¥^\_Y^USW^  
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+HWI-EAS443:3:84:1189:1089#0/1  
a^¥^Z^aa`UYbba\_\_a\_a[\_`Va^\_`a`aa`\_`Q]]a]]  
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+HWI-EAS443:3:84:1278:857#0/1  
a`a¥a`T\_\_`baaa^]`\_a\_aa^aY[¥`a`\_a\_^\_\_\_\_`  
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CATATGCAGTGGGATTTTCGGAGACAATCCACGCCCTAAT

+HWI-EAS443:3:84:1407:21#0/1  
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+HWI-EAS443:3:84:147:1129#0/1  
aaaa\_[L^¥`\_`ZVYX`a`S¥]¥GY[T\_VH[]^`\_`^X[U  
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+HWI-EAS443:3:84:1528:815#0/1  
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+HWI-EAS443:3:84:1533:297#0/1  
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+HWI-EAS443:3:84:1601:704#0/1  
^[V[\_aaa\_]YUY^Y\_]Z]¥`\_`\_`^X¥`]^`^UXU¥^ZZ  
@HWI-EAS443:3:84:1636:1477#0/1  
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+HWI-EAS443:3:84:1636:1477#0/1  
Z\_[\_bbba`\_`a]aaaa`Q¥`aba]abb¥b`aa^bbb]  
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CAACTGCCTGTCTTATCATTAGGGCGTGGATTGTCTCCGA  
+HWI-EAS443:3:84:205:1149#0/1  
`ZYa`Yaa\_[Y[`\_`\_`a`^^^R\_]X]]]^Y^][¥VR  
@HWI-EAS443:3:84:218:1645#0/1  
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+HWI-EAS443:3:84:218:1645#0/1  
\_Z]a`\_`\_b\_\_aa`a^TX`^Vaa\_]aa`aYZV¥\_`QYHZW  
@HWI-EAS443:3:84:230:390#0/1  
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+HWI-EAS443:3:84:230:390#0/1  
aaa\_aZa¥aVZ`\_`a`\_MV\_a]\_¥\_]R[\_]¥\_Y^\_]`^`  
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+HWI-EAS443:3:84:339:1915#0/1  
`\_ZZ`\_`\_TZ]a\_VZa`W^a\_Y][`]VSMGOY^]XS^][  
@HWI-EAS443:3:84:379:618#0/1  
TTGAAACATGCAATCAAAGCGTCATTACTTATGAAAACAA  
+HWI-EAS443:3:84:379:618#0/1  
¥aba^¥`\_`\_]Y^`a]Iaaa]]\_Y¥¥`¥Q`\_`aT[]\_W`P  
@HWI-EAS443:3:84:491:1546#0/1  
AGACAATAACTTCTCAATAAAGCAAGATATCGTAGGAATA  
+HWI-EAS443:3:84:491:1546#0/1  
^][aaV\_a]aa]`a`aa`aa\_]a^`W`^`^`Y`\_a`]

@HWI-EAS443:3:84:503:253#0/1  
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+HWI-EAS443:3:84:503:253#0/1  
a]R\_]`^¥P¥`aX`ZT¥a^[YaYM[Z]R[]XX¥¥[\_`¥TY  
@HWI-EAS443:3:84:507:1785#0/1  
GAAAGACACCCACGGTCGATTTCGAGCCATGCCAGTTATCC  
+HWI-EAS443:3:84:507:1785#0/1  
¥` `b\_W^ab\_ab\_Q\_¥Z0]ba¥R[ `a^XZYG]a¥KZa]BB  
@HWI-EAS443:3:84:517:33#0/1  
GCCCCGCTAATTTACGGAAACCACTGACTGTCCAGCAGCA  
+HWI-EAS443:3:84:517:33#0/1  
a^\_\_a^aY\_baaaa\_aaWa\_`¥`U` ` \_W]`YWZWZWNWNG  
@HWI-EAS443:3:84:537:575#0/1  
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+HWI-EAS443:3:84:537:575#0/1  
a\_aaaa\_a`¥Y[]a\_\_\_\_`\_]a`^\_a[[\_^\_\_\_\_[]X\_^\_U  
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GATTTTCGGAGACAATCCACGCCCTAATGATAAGACAGGC  
+HWI-EAS443:3:84:572:140#0/1  
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GTTGAAAGACACCCACGGTCGATTTCGAGCCATGCCAGTTA  
+HWI-EAS443:3:84:57:670#0/1  
aP^aa[GR^a^T` \_\_\_\_\_UZ¥NRV¥[M^ZMRPSUSPSGS  
@HWI-EAS443:3:84:604:1471#0/1  
CCGAAAATCCCCTGCATATGTATCCTATCTGATATTCCA  
+HWI-EAS443:3:84:604:1471#0/1  
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@HWI-EAS443:3:84:625:565#0/1  
CTTTCAACCAGAATCTGGAATATCAGATAGGATACATATG  
+HWI-EAS443:3:84:625:565#0/1  
aaaaa[]aaaaa`aaaa^aa`\_a`a` `aa` [\_aaa[a^^  
@HWI-EAS443:3:84:62:554#0/1  
GGCATCAATTGGCTAACAATTGGAATTTCTGGCCCAGACA  
+HWI-EAS443:3:84:62:554#0/1  
a\_bZ¥aa` [\_a\_a`¥a\_Xa`a[ `^\_`\_` ` \_`¥¥\_¥¥X¥^  
@HWI-EAS443:3:84:630:373#0/1  
GTGGTCCAGTATCGTCTAATGGAGCAAATGGAGTAAAAGG  
+HWI-EAS443:3:84:630:373#0/1  
aaaa^aaaa\_aaaa] `a\_\_aaa^`¥^\_\_aaa]aUa\_aaa`  
@HWI-EAS443:3:84:694:897#0/1  
AAACAATATATTGAGAACACAAGAGTCTGAATGTGCATGT  
+HWI-EAS443:3:84:694:897#0/1  
a^^a]XYa`^^abaaaa]a`a\_a] `^\_\_^[\_` `Y]¥^` \_¥  
@HWI-EAS443:3:84:775:1550#0/1  
GAATGTGCATGTGTAAATGGTTCTTGCTTTACTGTAATGA  
+HWI-EAS443:3:84:775:1550#0/1  
aaa\_\_Y[]`ab]Y¥] ` `a] `^aaa`aabaaaaa` ` `]QY  
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CTCCTGTTATCCTGATTCTAGTGAATCACATGTGTGTGC

+HWI-EAS443:3:84:850:700#0/1  
aa`^^[^X^`^aa]aVa]a\_TUYaYY`\_^T\_\_a` [a]a]aa  
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CATCCGTTCCGGATCCCAAATCATCTCAAAACCGTTTCTTG  
+HWI-EAS443:3:85:1048:1923#0/1  
ab^aaa`]GVaaa[[\_Vaaa\_a\_]`0[`baVKXY¥[R]YV  
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AGAGTCTGAATGTGCATGTGTAAATGGTTCTTGCTTTACT  
+HWI-EAS443:3:85:1103:543#0/1  
`\_`aZaba]`ab\_a`aa^]a\_^`aaaa\_a`aaa\_aaa`\_`  
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CATGTGTAAATGGTTCTTGCTTTACTGTAATGACCGATGG  
+HWI-EAS443:3:85:1208:946#0/1  
abbbbaababbb]ab`bbbabbbaaab`bbbba`aaaab\_  
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CGATACTGGACCACAACCTGCCTGTCTTATCATTAGGGCGT  
+HWI-EAS443:3:85:1349:639#0/1  
ab`bbbb`\_aabaaaaa`ab\_aabab`aaaa\_\_aa`Z  
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ATGCAATCAAAGCGTCATTACTTATGAAAACAACACTTGG  
+HWI-EAS443:3:85:1372:1407#0/1  
abaa`¥b`b]abbb`\_bb¥` [bbabababa\_ba``\_\_aa`  
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GGGGGATGTGTTTGTGCATAAGGGAACCATTTCATATCATGC  
+HWI-EAS443:3:85:1392:1264#0/1  
aabbaabb\_b`bab`^a\_\_aaaa\_aV^`ba\_`a\_a^aa\_V  
@HWI-EAS443:3:85:1477:951#0/1  
CAGACACTATCAAGAGTTGGAGAAACAATATATTGAGAAC  
+HWI-EAS443:3:85:1477:951#0/1  
abbaabab^]NZZ``\_\_aa`¥W`^aY`^a]a`a`b\_aa^\_  
@HWI-EAS443:3:85:1480:1347#0/1  
ACAATATATTGAGAACACAAGAGTCTGAATGTGCATGTGT  
+HWI-EAS443:3:85:1480:1347#0/1  
]V]]]Xba[[]a`a]Yaa\_\_W^aa¥aa]^a]\_\_a`H[V  
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ATTAGACGATACTGGACCACAACCTGCCTGTCTTATCATT  
+HWI-EAS443:3:85:1557:1410#0/1  
]a\_Yaabaa]Y][YQGTX\_L^[LVaaRMV`JY[YRaV  
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AATATATTGAGAACACAAGAGTCTGAATGTGCATGTGTAA  
+HWI-EAS443:3:85:1605:1162#0/1  
^^]bbbbbbbaaaa¥b\_aaa\_a`ab\_a\_bT\_Z\_ab\_^^a\_  
@HWI-EAS443:3:85:168:588#0/1  
TTCAAATACGGCAATGGTGTGGATAGGGAGAACTAAAA  
+HWI-EAS443:3:85:168:588#0/1  
`a`[\_X\_`^aaa]P¥^a¥]V`^`][^``¥XTNZ¥]\_]P]  
@HWI-EAS443:3:85:1716:1320#0/1  
ATTACAGTAAAGCAAGAACCATTTACACATGCACATTACAG  
+HWI-EAS443:3:85:1716:1320#0/1  
a]S[D^a[aa\_`a^Q`^aY^^\_VZ`¥[G^\_[RZ\_a`]L¥]

@HWI-EAS443:3:85:1725:1067#0/1  
GAAATCACATGTGTGTGCAGGGATAACTGGCATGGCTCGA  
+HWI-EAS443:3:85:1725:1067#0/1  
aY]^QW\_\_¥]aP^MaTVOM^Y\_M[]SSW¥[OMWWBBBBBB  
@HWI-EAS443:3:85:1790:521#0/1  
TGTTATTATGCCGTTGTACTTTAACACAGCCACTGCCCCA  
+HWI-EAS443:3:85:1790:521#0/1  
aa\_`^a¥aa``a\_aa\_a]a`aa\_\_^`\_Z[]\_\_\_ZYYX]  
@HWI-EAS443:3:85:181:988#0/1  
CTCAAAACCGTTTCTTGAACATAATGCTTTTAGTTCTCCCT  
+HWI-EAS443:3:85:181:988#0/1  
aaaa`¥a]aa\_a`\_`a`a^aa`a\_\_[\_a\_\_\_X\_\_`\_]\_\_  
@HWI-EAS443:3:85:260:1379#0/1  
CTCCGAAAATCCCCTGCATATGTATCCTATCTGATATTC  
+HWI-EAS443:3:85:260:1379#0/1  
a[^a\_¥VQ^`a`T\_]LX¥¥¥\_SOQ[YYWWYVS^BBBBBBB  
@HWI-EAS443:3:85:292:1110#0/1  
CGCTTGGTCAGCAAGTGCTTGTGCATGATGGCATCAATTGG  
+HWI-EAS443:3:85:292:1110#0/1  
]a`VZVWU\_^^^Y0`\_U]S`WQXX^YJ¥]a`UVYYY¥a¥R  
@HWI-EAS443:3:85:29:1080#0/1  
CAATCAAAGCGTCATTACTTATGAAAACAACACTGGGTA  
+HWI-EAS443:3:85:29:1080#0/1  
abba`^`a`aa[a``^aa`aaa\_aaaaa\_]\_a^^^\_^Xa  
@HWI-EAS443:3:85:318:1667#0/1  
AAACAATATATTGAGAACACAAGAGTCTGAATGTGCATGT  
+HWI-EAS443:3:85:318:1667#0/1  
aWHZTO^`\_aa]^`¥Ua^¥]^`a\_T\_]Za¥^NUX[L^a`\_X[  
@HWI-EAS443:3:85:400:570#0/1  
CGTGGGTGTCTTTCAACCAGAATCTGGAATATCAGATAGG  
+HWI-EAS443:3:85:400:570#0/1  
ab\_bbb\_baabbbba`babbaa`aabaaaaaaa`a``aa  
@HWI-EAS443:3:85:440:759#0/1  
GTTAACATCAGCAACACCAACTTTGCTGCTGGACAGTCAG  
+HWI-EAS443:3:85:440:759#0/1  
`^b`\_bba`b`abbabaaaaaaaaaab^aaaaa`\_a^\_a`  
@HWI-EAS443:3:85:445:1780#0/1  
CAAGAAGAAGGTTCTGCATTCCAAGGGGAGCATGATATG  
+HWI-EAS443:3:85:445:1780#0/1  
aa\_a\_]Z\_`^WVa``]^`\_\_\_`a\_\_\_UPZ\_^\_W^\_¥\_U\_]W  
@HWI-EAS443:3:85:540:585#0/1  
GTCCTATTGGTGAAGTCCCTCTCCATACAACACTCAAGATT  
+HWI-EAS443:3:85:540:585#0/1  
\_`bbbbbbba\_abba\_aaaaaaaaaaaaaa]a\_\_`]````  
@HWI-EAS443:3:85:56:1324#0/1  
GTGTAACAGTGACACTGTGGGTTGGTCTTGCCAGACGG  
+HWI-EAS443:3:85:56:1324#0/1  
a^`^Z¥abaa\_`^W``¥Ya¥\_¥`a`¥`\_``\_``\_Z\_[]  
@HWI-EAS443:3:85:581:1348#0/1  
CTAATTATCACTATGAGGAATGCTCCTGTTATCCTGATTC

+HWI-EAS443:3:85:581:1348#0/1  
]X\_W\_Z\_Z[Z[V[U`QX]X\_]^[^XPS¥SVZ`\_]\_Q¥¥XV]  
@HWI-EAS443:3:85:622:1659#0/1  
AAGACACCCACGGTCGATTGAGCCATGCCAGTTATCCCT  
+HWI-EAS443:3:85:622:1659#0/1  
aa`aaa`b`a`\_`TR^\_SY^VJTMKYVKPRWNUR[¥YTRTB  
@HWI-EAS443:3:85:660:2037#0/1  
CCTTGCTAAATGACAAACATTCCAATGGAACCATTAAAGA  
+HWI-EAS443:3:85:660:2037#0/1  
ab`a[babaaaY`aaaa\_a` ``^aa¥]`a¥X]aa\_]`a¥\_  
@HWI-EAS443:3:85:716:786#0/1  
GTTGAAAGACACCCACGGTCGATTGAGCCATGCCAGTTA  
+HWI-EAS443:3:85:716:786#0/1  
a\_ab` ``a` `a^`\_a`aa[^`\_\_^`\_[Y[¥X¥QYY¥¥Y\_¥  
@HWI-EAS443:3:85:764:852#0/1  
GGCGTGGATTGTCTCCGAAAATCCCCTGCATATGTATCC  
+HWI-EAS443:3:85:764:852#0/1  
]b\_^Vaa[bb`VU]aUb^H\_R`\_aa\_a`aaa\_a`ZSaa`^  
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GGCCTTGCTAAATGACAAACATTCCAATGGAACCATTAAA  
+HWI-EAS443:3:85:882:1795#0/1  
`aabaaaaabb`aababaaaaaaa]aba``aaa``\_`\_  
@HWI-EAS443:3:85:948:1526#0/1  
GTCAGGATATAGCGGGAGTTTTGTTTCAGCATCCAGAACTA  
+HWI-EAS443:3:85:948:1526#0/1  
\_S`]ab[^\_aa`aaaa\_aZ``VV`]XX^^\_]``T`Y`^  
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+HWI-EAS443:3:85:992:1573#0/1  
aaaUVZaaYa\_[]`a^^a`aZ[aVRP^Q\_SQZOK[^[UUUM  
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+HWI-EAS443:3:86:1008:276#0/1  
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CTTGGGAATCAAAATCAGATTGAAACATGCAATCAAAGCG  
+HWI-EAS443:3:86:1033:562#0/1  
abb`bbbbbbbbbbabbabbbaaaa`b^aaaaba`aa`  
@HWI-EAS443:3:86:1139:834#0/1  
ATTCCAGATTCTGGTTGAAAGACACCCACGGTCGATTGGA  
+HWI-EAS443:3:86:1139:834#0/1  
]ba]aa\_`a`aab]abbaa``Y^^¥]a\_a`GR[MNS[`¥  
@HWI-EAS443:3:86:1193:128#0/1  
CTGTTGAAAGACACCCACGGTCGATTGAGCCATGCCAG  
+HWI-EAS443:3:86:1193:128#0/1  
`b`[b`]TaZaUWT]a]bXbaa]H^WTGX`\_¥GM`aGZ]\_  
@HWI-EAS443:3:86:1469:707#0/1  
ATGCCATCATGACAAGCACTTGCTGACCAAGCGACTGACT  
+HWI-EAS443:3:86:1469:707#0/1  
abbaaab`ab`]`bbaaaSba¥J`aWJT[b`WaaVb`\_0`



@HWI-EAS443:3:86:1552:368#0/1  
TGGGCTCCTGTCTTTAATGGTTCCATTGGAATGTTTGTCA  
+HWI-EAS443:3:86:1552:368#0/1  
]bbb`a\_abbabbbbbbba[b]a`bb\_baa`babb`aGa  
@HWI-EAS443:3:86:159:1105#0/1  
ACGATACTGGACCACAACCTGCCTGTCTTATCATTAGGGCG  
+HWI-EAS443:3:86:159:1105#0/1  
aaaa`^]aaXQ^`]]Z`a`X]]^\_W^^^[^`\_^\_T^]`^]  
@HWI-EAS443:3:86:1604:583#0/1  
CATGTGTGTGCAGGATAACTGGCATGGCTCGAATCGACC  
+HWI-EAS443:3:86:1604:583#0/1  
aabbbbbbabbabbabb`bbbabb\_b[PTbZRYWDL  
@HWI-EAS443:3:86:1621:1526#0/1  
ATATCATGCTCCCCCTTGAATGCAGAACCTTCTTCTTGA  
+HWI-EAS443:3:86:1621:1526#0/1  
aaaaa\_\_`ba^VY`\_a``[a\_a]QZZ`G¥`^\_\_]]][¥¥  
@HWI-EAS443:3:86:1640:391#0/1  
CAACTGCCTGTCTTATCATTAGGGCGTGGATTGTCTCCGA  
+HWI-EAS443:3:86:1640:391#0/1  
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@HWI-EAS443:3:86:1686:261#0/1  
CTTGAATGCAGAACCTTCTTCTTACTCAAGGGGCCTTG  
+HWI-EAS443:3:86:1686:261#0/1  
aba``¥bbbabb\_Y]b\_¥aaX``abSa]aab¥ab^`\_b`  
@HWI-EAS443:3:86:215:1527#0/1  
CTTGTGTTCTCAATATATTGTTTCTCCAACCTTGATAGT  
+HWI-EAS443:3:86:215:1527#0/1  
`U]a]¥Vbbb`QUa^^¥¥\_b`¥\_aUW`P¥a]aVaXHYN  
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GACCAACCCACAGTGTCACTGTTTACACCACAAAAGGATA  
+HWI-EAS443:3:86:233:341#0/1  
]babbbbbbbaa]b¥a[aaaa`aaaaba`a`a`]aa^`^a  
@HWI-EAS443:3:86:234:218#0/1  
GGCTCGAATCGACCGTGGGTGTCTTTCAACCAGAATCTGG  
+HWI-EAS443:3:86:234:218#0/1  
abbba\_Q\_^\_]ZaaaQbb\_P`SV[aa]¥]¥^``Va`]\_aa  
@HWI-EAS443:3:86:240:191#0/1  
AACCCTAATGAGCTGTCCTATTGGTGAAGTTCCTCTCCA  
+HWI-EAS443:3:86:240:191#0/1  
][Q^][a[a\_U\_`aaUYXaR]`baQ`WV[S`[PV]PUU[U  
@HWI-EAS443:3:86:246:1351#0/1  
GGTGTGGATAGGGAGAACTAAAAGCATTAGTTCAAGAA  
+HWI-EAS443:3:86:246:1351#0/1  
a`Lb\_bbaaaaa^VZaaaa`aaaa\_ab```a]^`a]\_]\_  
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+HWI-EAS443:3:86:299:1150#0/1  
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+HWI-EAS443:3:86:29:1856#0/1  
aNababababbaaZUaabb¥abbbbbbababbb` `a\_aa  
@HWI-EAS443:3:86:334:351#0/1  
ATCAAGAGTTGGAGAAACAATATATTGAGAACAAGAGT  
+HWI-EAS443:3:86:334:351#0/1  
aa`\_\_aU`^aa`\_\_¥a\_a`\_\_`\_a\_a^aaa`\_¥`^`\_a^\_W  
@HWI-EAS443:3:86:344:1995#0/1  
ACTGCCTGTCTTATCATTAGGGCGTGGATTGTCTCCGAAA  
+HWI-EAS443:3:86:344:1995#0/1  
`b^W\_baa\_baaaaa^aa^XY]a^¥^^^`aYZ`^`\_T¥`a  
@HWI-EAS443:3:86:349:1637#0/1  
TAGCCACTCAATTCAACTTGGGAATCAAAATCAGATTGAA  
+HWI-EAS443:3:86:349:1637#0/1  
a\_a\_W\_aaaa`aa^¥a^aZOXQZ`\_\_]XV[^`\_]`\_\_¥  
@HWI-EAS443:3:86:367:907#0/1  
GGGGGATGTGTTTGTGCATAAGGGAACCATTATCATGC  
+HWI-EAS443:3:86:367:907#0/1  
aaaaX` `aYVa]^`^YVQX0[\_SWZ[^Y[^Z`^XZZ^^^\_  
@HWI-EAS443:3:86:411:1940#0/1  
CGATACTGGACCACAACCTGCCTGTCTTATCATTAGGGCGT  
+HWI-EAS443:3:86:411:1940#0/1  
`\_]`baa`^Vaa`a`a[\_a`^^V¥V¥`[Y^`\_\_¥NW`]W  
@HWI-EAS443:3:86:452:403#0/1  
GTCAGGATATAGCGGGAGTTTTGTTTCAGCATCCAGAACTA  
+HWI-EAS443:3:86:452:403#0/1  
¥Yaabaa]abb` `b¥[P\_Z\_a`UP`^` `¥\_V¥`^XXNY]  
@HWI-EAS443:3:86:458:1977#0/1  
CTTGTCATGATGGCATCAATTGGCTAACAATTGGAATTC  
+HWI-EAS443:3:86:458:1977#0/1  
aaaa^abaaaaa`ba`baaa` `aaaaaaaaaa\_\_a` ` `a  
@HWI-EAS443:3:86:516:1849#0/1  
ATCATGACAAGCACTTGCTGACCAAGCGACTGACTCAAAT  
+HWI-EAS443:3:86:516:1849#0/1  
a\_ababaabba]aaaa`bb` `YZ\_aaa`\_a`aaaa`a`¥\_  
@HWI-EAS443:3:86:527:1468#0/1  
TGCAGAACCTTCTTCTTACTCAAGGGCCTTGCTAAATG  
+HWI-EAS443:3:86:527:1468#0/1  
UZ[^`¥^bZa^`\_Za]]b`Za¥¥\_KZa^¥aXaaa^\_] ^RZ]  
@HWI-EAS443:3:86:563:810#0/1  
CAACTGCCTGTCTTATCATTAGGGCGTGGATTGTCTCCGA  
+HWI-EAS443:3:86:563:810#0/1  
aa`ababaabaaababaaaaa\_a` ` `aa\_a`\_`\_a`^`\_  
@HWI-EAS443:3:86:574:1683#0/1  
AAGACACCCACGGTCGATTCGAGCCATGCCAGTTATCCCT  
+HWI-EAS443:3:86:574:1683#0/1  
aaaaabaa`a\_\_YLM\_[S[^`¥US¥^]UWW\_VVNUUQU¥¥Q  
@HWI-EAS443:3:86:623:588#0/1  
CGCTTGGTCAGCAAGTGCTTGTTCATGATGGCATCAATTGG  
+HWI-EAS443:3:86:623:588#0/1  
a\_aaaba^bbaaa`b`baaab\_a`abaa`\_aaaaa\_a`aY

@HWI-EAS443:3:86:681:1577#0/1  
GTCAGGATATAGCGGGAGTTTTGTTCCAGCATCCAGAACTA  
+HWI-EAS443:3:86:681:1577#0/1  
`XQPN`U]`X\_W]`^WW^KRS\_]X¥]]^FOPLV[NXQGLX  
@HWI-EAS443:3:86:699:1442#0/1  
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+HWI-EAS443:3:86:699:1442#0/1  
[^\_`babbb\_abbabbbbbbbaa`ba\_[bbaaaa`a\_`  
@HWI-EAS443:3:86:755:1315#0/1  
CACAGTGTACTGTTTACACCACAAAAGGATATGCTGCTC  
+HWI-EAS443:3:86:755:1315#0/1  
aab]aV¥^aa`ab\_aZa[``^[`a\_`^a\_] [^^`¥QYWYU  
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CTCCCCCTTGAATGCAGAACCTTCTTCTTACTCAAGGG  
+HWI-EAS443:3:86:772:660#0/1  
abbabbbb\_Zaab[`bba]¥bba[babbab\_a`aa\_a`  
@HWI-EAS443:3:86:774:359#0/1  
GGGACAGACAATAACTTCTCAATAAAGCAAGATATCGTAG  
+HWI-EAS443:3:86:774:359#0/1  
a¥ZW]^b`\_T[`] [\_aaa^¥Ua^`Z]Y\_\_T\_ [¥\_^^X^Y  
@HWI-EAS443:3:86:77:1055#0/1  
CTCGAATCGACCGTGGGTGTCTTTCAACCAGAATCTGGAA  
+HWI-EAS443:3:86:77:1055#0/1  
abbbb`aa]b\_\_a`aba[a[[]`aa¥UY`^a`¥`a^\_` [¥Z  
@HWI-EAS443:3:86:812:1340#0/1  
AGTCAGTCGCTTGGTCAGCAAGTGCTTGTGCATGATGGCAT  
+HWI-EAS443:3:86:812:1340#0/1  
\_¥`ba^aba]aab[`^`\_¥`X`aaaa\_¥` ````\_WZaY  
@HWI-EAS443:3:86:829:1077#0/1  
GGTTGGTCTTGGCCAGACGGTGCTGAGTTGCCATTTACCA  
+HWI-EAS443:3:86:829:1077#0/1  
a`^Uab`^`bUUbbaab`ba]\_^Z¥X\_\_XY]]]aaaaV^¥  
@HWI-EAS443:3:86:829:2027#0/1  
CAAAGGATATGCTGCTCCCGCTAGTCCAGATTGTGTTCT  
+HWI-EAS443:3:86:829:2027#0/1  
`UZ¥abb\_Z\_\_P^^VWYaYX^a\_aa[¥a]ZZ]¥[RYXZZ[  
@HWI-EAS443:3:86:844:920#0/1  
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CACATGTGTGTGCAGGGATAACTGGCATGGCTCGAATCGA  
+HWI-EAS443:3:86:851:1897#0/1  
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+HWI-EAS443:3:86:861:1868#0/1  
`bW]^Z\_bba^`aab]^V¥`aZYZaa`¥]^ [a[XW`NS\_  
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+HWI-EAS443:3:86:884:979#0/1  
U\_\_X\_a¥S]GMa]¥X\_^[\_^^b`Y`adWUY[\_aa\_[^\_¥S  
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CATATGCAGTGGGATTTTCGGAGACAATCCACGCCCTAAT  
+HWI-EAS443:3:86:89:241#0/1  
abababbaZW¥]¥X\_aa[^aaZY^`aab`^baaa]]^`a]  
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+HWI-EAS443:3:86:904:549#0/1  
[[^`\_a^aaaa```aaaa`\_¥]^`VW^`aa``\_a`XY[S  
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CTGGATGCTGAACAAAACCTCCCGCTATATCCTGACCACTC  
+HWI-EAS443:3:86:946:291#0/1  
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+HWI-EAS443:3:86:95:801#0/1  
aaaaZa`P\_\_`]XXZa^\_V¥aaS]\_aZ\_a\_V][a^¥^¥¥Y  
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+HWI-EAS443:3:86:990:1187#0/1  
aaaaaaaaaaaa\_``]]`a`\_aa^a]^a`^a\_\_\_\_\_`^Z^]  
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+HWI-EAS443:3:87:1033:860#0/1  
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+HWI-EAS443:3:87:109:933#0/1  
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+HWI-EAS443:3:87:1137:305#0/1  
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+HWI-EAS443:3:87:1194:179#0/1  
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+HWI-EAS443:3:87:1297:1116#0/1  
a`aabaaaaY`]Y\_\_aaaU``aa^aY]a^aa[\_\_\_\_]a`\_a

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+HWI-EAS443:3:87:1437:1145#0/1  
^^ZX]bX^^STa]S^\_a\_^^`ab^abaYabLDXUVNO]W  
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+HWI-EAS443:3:87:1453:1164#0/1  
aa`abaab`ba`aaaa\_a^bbaa``a^``aa\_`aaa`¥\_`  
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+HWI-EAS443:3:87:1685:905#0/1  
a`\_^]`aaba`ab]aaa^`a`^\_aZ[a[a\_R\_ZUY[\_ZN  
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+HWI-EAS443:3:87:176:359#0/1  
`W]S\_^a`aX[`]Q¥[`]W]Y¥^[Z[¥``\_\_][YZPVY  
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+HWI-EAS443:3:87:202:1580#0/1  
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¥0^aZa`aa]`ZZ]`aZ¥K¥\_ZMY[NV\_ZP]`¥¥¥¥¥WWU  
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+HWI-EAS443:3:87:242:100#0/1  
aaa\_``^aaa\_a¥`a`aa`a``\_\_aa^\_``\_\_^aY\_^  
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+HWI-EAS443:3:87:281:467#0/1  
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+HWI-EAS443:3:87:308:824#0/1  
]^abbb`\_baba\_\_aaaab\_a\_]ab\_[aaba^\_aaa\_aa]  
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CTCATTAGGGTTTCGATATGGGCTCCTGTCTTTAATGGTTC  
+HWI-EAS443:3:87:33:1404#0/1  
aa`WaaZ\_¥\_X\_WV\_^OY[F0aSOW`Y]\_\_]XHR¥Z^SWa  
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TAGGGCGTGGATTGTCTCCGAAAATCCCACTGCATATGTA  
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Z`baabaabbb`bbWba^aa```aaba`````^a`````T`  
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+HWI-EAS443:3:87:391:155#0/1  
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+HWI-EAS443:3:87:476:1386#0/1  
`\_abba`babab¥a`aaa``baba``\_]P^`\_¥^¥\_^¥\_  
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+HWI-EAS443:3:87:488:494#0/1  
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aaa`Sa\_aa`b[abb\_aa\_\_bba`¥aa\_aa`\_]a[`aa^a  
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+HWI-EAS443:3:87:511:688#0/1  
aaa\_\_a`aaaa`a\_`a\_`a\_`a\_`a`aYa\_`a`[\_`\_aZ\_^  
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+HWI-EAS443:3:87:544:1456#0/1  
\_\_`W¥a¥¥Wb¥¥abb\_\_0\_¥W¥`X¥aY]\_^\_U\_¥\_]`\_Y  
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+HWI-EAS443:3:87:682:988#0/1  
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aa\_`ZWO[]]¥a\_VTYZXPX`^SY`W^XYQQU¥\_] [[QF¥  
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a\_`\_H¥^ZWa^¥baa`^`a\_aa`aa[a\_aa``^YVa]Yb  
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+HWI-EAS443:3:87:84:345#0/1  
a`\_aaa]`[\_`Y^aaa`Z```\_\_^\_\_\_\_\_[]Z]]Y[[  
@HWI-EAS443:3:87:868:853#0/1  
GGGGGATGTGTTTGTCTATAAGGGAACCATTCATATCATGC  
+HWI-EAS443:3:87:868:853#0/1  
a\_Xa¥¥\_\_L`U^aaS\_`a¥¥\_YPaY[``\_T¥ZUW¥Y\_] ^]  
@HWI-EAS443:3:87:875:636#0/1  
AGCACCGTCTGGCCAAGACCAACCCACAGTGTCACTGTTT  
+HWI-EAS443:3:87:875:636#0/1  
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+HWI-EAS443:3:87:912:1557#0/1  
a`¥aaaa`aab[`]^\_]U)`baa```]¥`a\_\_\_aWaaa`a  
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+HWI-EAS443:3:87:922:763#0/1  
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+HWI-EAS443:3:87:993:1020#0/1  
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+HWI-EAS443:3:88:1107:338#0/1  
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+HWI-EAS443:3:88:1148:678#0/1  
\_\_`aaa^a^][\_\_\_¥^`a^^]`]W]¥Z]aa^BBBBBBBBB  
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+HWI-EAS443:3:88:1151:878#0/1  
abaaa`\_a^``aaaa]a`^a¥aa`[^¥\_[\_`¥``Xa\_QYa  
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+HWI-EAS443:3:88:1357:1930#0/1  
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+HWI-EAS443:3:88:1372:129#0/1  
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+HWI-EAS443:3:88:1415:1228#0/1  
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+HWI-EAS443:3:88:1468:1053#0/1  
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+HWI-EAS443:3:88:154:1208#0/1  
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+HWI-EAS443:3:88:1631:284#0/1  
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^HOUR^]\_S\_X^V\_TUM[P`\_¥a`XFW^QPQTLWWZZ[L  
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+HWI-EAS443:3:88:235:1473#0/1  
aa`aaaaaa`\_^`^^^`\_^``[[`\_^`¥`\_¥`\_¥]`^^  
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+HWI-EAS443:3:88:249:1488#0/1  
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Z\_Z`\_aY`aa[`baab\_\_bbab\_baaaaaab`ab[]aa[`  
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+HWI-EAS443:3:88:361:895#0/1  
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+HWI-EAS443:3:88:399:349#0/1  
^]Z`a\_XS¥^PY\_a]]a`\_\_\_\_`X\_]NXWYH]X\_¥¥\_]^^`  
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+HWI-EAS443:3:88:445:242#0/1  
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+HWI-EAS443:3:88:483:1632#0/1  
[bbbabbb`\_\_`\_abbaba`\_babaababa`\_\_`a\_bb[¥  
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+HWI-EAS443:3:88:525:1866#0/1  
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+HWI-EAS443:3:88:548:1528#0/1  
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+HWI-EAS443:3:88:54:1247#0/1  
aaa`^]`]aaaa¥¥]Uaa\_\_\_]a`\_\_WZa]`\_Y\_`^]TWZ  
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+HWI-EAS443:3:88:563:1650#0/1  
a^\_a\_`\_Ya`aa[]^M¥a)``Za][U]\_`¥a\_`^a\_]\_^]  
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@HWI-EAS443:3:88:583:1821#0/1  
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+HWI-EAS443:3:88:583:1821#0/1  
S\_Y]^XZR[^`[\_a`L\_Z^aaa¥\_\_RWW]\_J`PXSaVZ^  
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+HWI-EAS443:3:88:644:1604#0/1  
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+HWI-EAS443:3:88:798:1166#0/1  
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+HWI-EAS443:3:88:805:923#0/1  
TXQ\_bbaaW`aZ\_\_X\_a^\_YZW^FUX^]YW]\_\_Q]]XY`¥  
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+HWI-EAS443:3:89:1084:696#0/1  
U¥a^\_bbb]bZ\_Y\_b\_XT\_b]\_``W`\_ba¥baaa]a`b]  
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+HWI-EAS443:3:89:1093:1252#0/1  
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+HWI-EAS443:3:89:1133:1367#0/1  
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+HWI-EAS443:3:89:113:1851#0/1  
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ZWW\_YT^`S]K```\_] ^Z¥Z\_¥aaYa\_]FWaa^FY\_aH\_R  
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+HWI-EAS443:3:89:1394:1171#0/1  
a\_a[aab`b`aa\_aaa\_a\_a\_a]a````````a\_]Sa\_  
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+HWI-EAS443:3:89:156:949#0/1  
a\_\_^\_\_`\_\_^]\_\_^`¥]^`\_^\_Z^U¥^]\_] ]^^¥^^[]  
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+HWI-EAS443:3:89:1614:1861#0/1  
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+HWI-EAS443:3:89:1618:1516#0/1  
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+HWI-EAS443:3:89:1654:1249#0/1  
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+HWI-EAS443:3:89:1769:432#0/1  
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+HWI-EAS443:3:89:208:643#0/1  
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+HWI-EAS443:3:89:209:301#0/1  
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T``^bb¥```¥V\_a`\_`Zabbbab`bb¥b`\_a\_aaaa`a  
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+HWI-EAS443:3:89:691:1712#0/1  
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``^aa\_a]^`bbab]^aaa][\_ba\_babaa`aaaa\_`a\_  
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+HWI-EAS443:3:89:714:1253#0/1  
abb¥`\_ZV`\_aRa`^^baa\_ba[¥[X`^¥¥aa]a`\_\_aaa  
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+HWI-EAS443:3:89:827:933#0/1  
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+HWI-EAS443:3:89:831:1280#0/1  
a`\_0¥Y]```[\_¥aYP]^\_LR]a\_HOVYYY[Wa¥^Z[`^W  
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\_Y[L`¥W\_\_¥`¥`^^P`b[`W\_babXQqA`[]YWYa`b`a  
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aaaaaaaa`[aa]\_\_a]\_\_U\_\_T^^X¥^`^X]Z^W¥]]]¥  
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+HWI-EAS443:3:89:877:528#0/1  
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+HWI-EAS443:3:89:993:1519#0/1  
[\_a\_T\_b]bYX]¥]\_N¥a^^S^WSV\_HWV` `` `]]^b`¥a  
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+HWI-EAS443:3:8:1220:1644#0/1  
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+HWI-EAS443:3:8:122:1665#0/1  
V[aaa`bbbaU¥`\_`bbbZ\_¥^`XXTbbab\_b`T`bX^b  
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+HWI-EAS443:3:8:1231:572#0/1  
a`¥`^a\_MOX[aT[TZTTR\_`Q[\_J^U\_]\_SPVU[ZYB  
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GGGCTCCTGTCTTTAATGGTTCATTGGAATGTTTGTCAT  
+HWI-EAS443:3:8:1324:742#0/1  
^^^a\_]a`]a`^a\_a\_`][¥¥U[``aZU¥YZ\_`\_]V][  
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+HWI-EAS443:3:8:1434:1793#0/1  
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+HWI-EAS443:3:8:146:1760#0/1  
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+HWI-EAS443:3:8:1590:284#0/1  
`\_]`aaa^aaa`aa\_a¥a^b\_`a]^N\_\_``\_a``\_U¥  
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+HWI-EAS443:3:8:210:1350#0/1  
^^\_R]\_\_^[^^aZ]]Z]U0Za]UZOVQ^N^[]V[Z¥OTM  
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a)``aab`R`^`¥]aVa[Zb^\_aa]`\_\_\_UU[aZS\_\_NBB  
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\_¥a)`^X^aa\_]^a\_aRaU^\_\_aZ]¥^\_`^^[^^`¥\_[[  
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ACCACAAGTGCCTGTCTTATCATTAGGGCGTGGATTGTCT  
+HWI-EAS443:3:8:27:1242#0/1  
aaaaaaaa`aa\_\_a^a```a```\_`]]\_`^^[\_`\_]W[^  
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+HWI-EAS443:3:8:40:495#0/1  
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a\_b¥abbbbbbbaabab]`bab\_aabYa\_a```aa`¥Ia\_\_  
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+HWI-EAS443:3:8:447:540#0/1  
aa^`\_aa\_\_a``a\_a``a\_a]``\_[X\_ZP[\_\_\_\_^\_^`^`^`  
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ab\_```aaaaa``aaaNa[`a]a¥U``[\_^\_^\_^]`^a`  
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+HWI-EAS443:3:8:514:513#0/1  
aaa`aa^a]XZ]]`Ua^a`a^^`\_^\_¥^`X¥\_\_^`[M  
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+HWI-EAS443:3:8:517:1630#0/1  
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+HWI-EAS443:3:8:517:330#0/1  
^]b`\_¥Yb][aaaGb^\_a`\_a]^\_a^a^`\_U^]^ZW  
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+HWI-EAS443:3:8:575:247#0/1  
a`abababa\_]aaa\_aba`\_\_````]a\_`\_]``^\_^^Y]\_  
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+HWI-EAS443:3:8:638:144#0/1  
aa\_a]`b\_\_[\_`aaa\_^^^U¥W\_U\_TYWWWWWTSUYWUYU  
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AGAGTCTGAATGTGCATGTGTAAATGGTTCTTGCTTTACT  
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aba`P^X``\_¥\_W^a^aaYYL\_a`\_a[Z]T]\_`\_]`ZV`  
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+HWI-EAS443:3:8:728:770#0/1  
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+HWI-EAS443:3:8:792:493#0/1  
\_[Y^aaaaa\_aa`a`\_\_\_\_\_`^\_\_`\_T`¥\_]Y]\_]X  
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ACAATATATTGAGAACACAAGAGTCTGAATGTGCATGTGT  
+HWI-EAS443:3:8:823:1703#0/1  
aZY`aa^]aabaYU^]``a^X¥^W¥\_Y`\_H`^P]\_S]U



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+HWI-EAS443:3:90:1085:1852#0/1  
Ya^`\_`b¥ZSWbbII\_]bb`]`bZXab]bbaVRQ\_H[X]¥E  
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+HWI-EAS443:3:90:1151:249#0/1  
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+HWI-EAS443:3:90:1248:1111#0/1  
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+HWI-EAS443:3:90:1327:548#0/1  
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+HWI-EAS443:3:90:1367:848#0/1  
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+HWI-EAS443:3:90:166:38#0/1  
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a\_^a`aabaaa`a````[]R[]]U^¥`\_\_\_^\_U\_W`\_^`\_  
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R\_^SWa^QR\_VQV¥\_Z\_\_Q^¥\_T`ab`¥]R]aaba^S\_^  
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+HWI-EAS443:3:90:732:1769#0/1  
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+HWI-EAS443:3:90:819:524#0/1  
a¥`\_aaa\_aaa\_a^aa`\_aaaa\_\_``\_]\_a\_\_a\_`\_Y\_ZB  
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+HWI-EAS443:3:90:909:1644#0/1  
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+HWI-EAS443:3:90:947:1151#0/1  
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+HWI-EAS443:3:90:958:129#0/1  
aba\_\_a\_\_\_Z^`\_]S\_a^a\_\_`^^`^V]\_X^X^Y]]V  
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+HWI-EAS443:3:91:107:184#0/1  
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+HWI-EAS443:3:91:1083:1160#0/1  
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+HWI-EAS443:3:91:1107:338#0/1  
a[\_W]^\_¥ZOWY^¥V^][W¥USZ\_SY\_NX[]W][][¥W[X  
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+HWI-EAS443:3:91:1191:1630#0/1  
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\_`b[abba\_baaaa[\_aaa[aa\_aaaaYaa`b^a^\_a]`a  
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+HWI-EAS443:3:91:1317:906#0/1  
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+HWI-EAS443:3:91:1318:639#0/1  
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+HWI-EAS443:3:91:1376:475#0/1  
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+HWI-EAS443:3:91:1387:1848#0/1  
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+HWI-EAS443:3:91:1410:1860#0/1  
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+HWI-EAS443:3:91:1421:1490#0/1  
a¥a¥\_a`^`\_`a`[\_`¥`¥\_]`\_R\_\_\_`^`^][][]\_`^\_U  
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+HWI-EAS443:3:91:196:1349#0/1  
ab\_] ]abb`abbaaaaa`a\_a`a`\_aTa]\_\_\_\_][V\_] ]  
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+HWI-EAS443:3:91:303:1134#0/1  
`Y`] `XDR]TRLN^X[[a^R`] ]`\_^T^`a`^^\_U^\_a¥`  
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a`b`aabbaab`\_aaaa`]aaaa`]````\_a\_\_`^`\_^[\_  
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a` ``Xa¥\_\_aaa^[]`aa` ```aa`\_a`\_a`\_a` `` `^^`  
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+HWI-EAS443:3:91:826:237#0/1  
a`\_a\_aa`\_`ba\_\_\_\_[\_` ``\_\_^\_^]```\_¥^U¥`U\_¥\_ZYL  
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+HWI-EAS443:3:91:840:949#0/1  
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+HWI-EAS443:3:91:920:1654#0/1  
a]`\_aVba]Sab`T`Taa^W^`b^¥a¥IV```a\_\_XFNaaal  
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+HWI-EAS443:3:91:926:1508#0/1  
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aa[¥`V\_`\_`a[YGTMQa^PYZa`\_`^[\_¥0\_X]W]¥W^^^X  
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+HWI-EAS443:3:92:1034:627#0/1  
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+HWI-EAS443:3:92:1098:498#0/1  
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+HWI-EAS443:3:92:112:1222#0/1  
`XUX¥]`\_`\_`^XY^X^`\_`\_`aa^[^`\_`\_`Z`X`\_]  
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@HWI-EAS443:3:92:1232:1883#0/1  
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+HWI-EAS443:3:92:1232:1883#0/1  
a]YG]ZV¥]`¥Y0]\_]\_]\_Z`ZSUZ^`a[^]X^\_JFR]]TY  
@HWI-EAS443:3:92:127:989#0/1  
ATTAGACGATACTGGACCACAACCTGCCTGTCTTATCATT  
+HWI-EAS443:3:92:127:989#0/1  
aa`\_`a`^a`\_U`ZT`a`\_a`XS[¥`\_`\_`\_`^`¥[OY\_[\_VV  
@HWI-EAS443:3:92:1412:106#0/1  
CAAGAGTTGGAGAAACAATATATTGAGAACAAGAGTCT  
+HWI-EAS443:3:92:1412:106#0/1  
¥`\_`\_`a`\_`\_`bbaZ`V¥^YVbb¥Ub^aabbbaa`aabaa`^a  
@HWI-EAS443:3:92:1426:330#0/1  
TGCTGCTCCCGCTAGTCCAGATTGTGTTCTCTTTGGGTCG  
+HWI-EAS443:3:92:1426:330#0/1  
abVa\_]`^U]Na^`Za^[¥`b`^a`\_a¥]PaW`\_`\_V^\_WSR  
@HWI-EAS443:3:92:1440:1166#0/1  
TTAGGGTTTCGATATGGGCTCCTGTCTTTAATGGTTCCATT  
+HWI-EAS443:3:92:1440:1166#0/1  
aa\_aaaZa\_a^`\_¥\_]¥\_\_\_Z`¥^^`\_`\_`\_`^]`^XWX\_]`  
@HWI-EAS443:3:92:1655:204#0/1  
CAATTGGCTAACAATTGGAATTTCTGGCCCAGACAATGGG  
+HWI-EAS443:3:92:1655:204#0/1  
\_]\_aU`\_W^abX\_Qaa\_]¥aaaR`]X`]`][XaX]¥]^¥K`B  
@HWI-EAS443:3:92:1675:142#0/1  
ATTGGTGAAGTTCCCTCTCCATACAACCTCAAGATTTGAGT  
+HWI-EAS443:3:92:1675:142#0/1  
\_aab`\_`\_`^X¥aa]]`a`[DOZa[QURUXVXS`[`a`\_Y]R  
@HWI-EAS443:3:92:175:465#0/1  
GGAATGCAGAACCTTCTTCTTGACTCAAGGGCCTTGCTA  
+HWI-EAS443:3:92:175:465#0/1  
`a¥]\_]b]bYbbTa`ba`aaaaYab]a\_]\_`\_`OXa`^a^



@HWI-EAS443:3:92:217:114#0/1  
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+HWI-EAS443:3:92:217:114#0/1  
]bbb`bbbbbbabbbbabbbababb[bbabbbbaaab^  
@HWI-EAS443:3:92:305:1698#0/1  
TCCGAAAATCCCACTGCATATGTATCCTATCTGATATTCC  
+HWI-EAS443:3:92:305:1698#0/1  
Xa¥ab`\_aa`a`abaabbbba`baaaaaaaaaa`a`b¥  
@HWI-EAS443:3:92:333:1743#0/1  
GTAAAGCAAGAACCATTTACACATGCACATTCAGACTCTT  
+HWI-EAS443:3:92:333:1743#0/1  
U`b`X`YPRbbab`ba¥abbbbabbbbb\_[^b`a`¥]`a  
@HWI-EAS443:3:92:37:81#0/1  
AAACAATATATTGAGAACAAGAGTCTGAATGTGCATGT  
+HWI-EAS443:3:92:37:81#0/1  
Ybaa[\_¥Rba`a`^aba`YYaYaS`aaI`aaY`\_¥\_\_U  
@HWI-EAS443:3:92:470:347#0/1  
GTGTTCTCAATATATTGTTTCTCCAACCTTGATAGTGTC  
+HWI-EAS443:3:92:470:347#0/1  
aaa^`^Z`¥]a`Y`aaX`\_a]``\_\_]a^`^^ZV^Z[BB  
@HWI-EAS443:3:92:479:1205#0/1  
GCTTGGTCAGCAAGTGCTTGTGCATGATGGCATCAATTGGC  
+HWI-EAS443:3:92:479:1205#0/1  
`bbb\_b\_aa`ba`a\_a^a\_a`^a\_aaaa^aa`\_aaa\_^^^  
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TCGAGCCATGCCAGTTATCCCTGCACACACATGTGATTTC  
+HWI-EAS443:3:92:534:234#0/1  
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@HWI-EAS443:3:92:558:1418#0/1  
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+HWI-EAS443:3:92:558:1418#0/1  
`]]P\_X[T\_QTX`Z\_¥^`\_ZU]¥¥VBBBBBBBBBBBBBB  
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+HWI-EAS443:3:92:58:1619#0/1  
aa`]]]P]aaa`V`aaaa\_a`\_a`\_a`\_a^U^^^M^T  
@HWI-EAS443:3:92:629:1967#0/1  
CAGACATATGTTAACATCAGCAACACCAACTTTGCTGCTG  
+HWI-EAS443:3:92:629:1967#0/1  
a`]¥a`^RaYa]aaaba]\_Wa\_YX\_WV\_]`^H`\_a^`\_`\_Y\_  
@HWI-EAS443:3:92:62:509#0/1  
TGTCTTTACTGTATATAGCCCATCCACTAACAGGGCAGAG  
+HWI-EAS443:3:92:62:509#0/1  
abaaabba`bb`ab`aaa`aaa`\_a``````\_`a\_\_\_\_\_]`  
@HWI-EAS443:3:92:657:1702#0/1  
AACACAGCCACTGCCCCATTGTCTGGGCCAGAAATTCCAA  
+HWI-EAS443:3:92:657:1702#0/1  
aaa\_aa`\_a`^\_X^Za``]¥WV^^]RFX^`^TV\_W]U[^\_  
@HWI-EAS443:3:92:668:335#0/1  
TAGCGGGAGTTTTGTTTCAGCATCCAGAACTAACAGGGCTG

+HWI-EAS443:3:92:668:335#0/1  
HZ\_P\_¥¥¥aP^]YY\_YRHX¥VJR]\_`XaY\_\_a[¥a`ZLJ\_  
@HWI-EAS443:3:92:67:116#0/1  
TGCTGCTCCCGCTAGTCCAGATTGTGTTCTCTTTGGGTCG  
+HWI-EAS443:3:92:67:116#0/1  
`baab`a`\_b\_a`aV\_¥¥a\_\_`a^a`[[¥W^\_\_\_\_[aUW¥  
@HWI-EAS443:3:92:688:1944#0/1  
GATTTTCCGAGACAATCCACGCCCTAATGATAAGACAGGC  
+HWI-EAS443:3:92:688:1944#0/1  
abbbabaaababaabaa`ba^\_\_`aaaaa`a`\_`a`\_\_]  
@HWI-EAS443:3:92:750:223#0/1  
ATAAGACCTTGCTTCTGGGTTGAACTAATCAGAGGGCGAC  
+HWI-EAS443:3:92:750:223#0/1  
`SZ¥¥\_]¥Z\_\_^^\_Z\_]\_]YZ]\_¥JY[U\_Z]X]^`W`aV  
@HWI-EAS443:3:92:813:706#0/1  
TAGTTCAACCCAGAAGCAAGGTCTTATACAATCCAGCCCT  
+HWI-EAS443:3:92:813:706#0/1  
abbWa`aaYaaaa\_X]`[aa\_Za`[``\_S``^¥RY`WV\_^  
@HWI-EAS443:3:92:831:1001#0/1  
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+HWI-EAS443:3:92:831:1001#0/1  
ab`[aaaa``aaaa`aaa`aaa`aa^a`ba`\_aa\_a`\_\_a  
@HWI-EAS443:3:92:841:475#0/1  
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+HWI-EAS443:3:92:841:475#0/1  
abbaaba`aa`baa`aa`aaa\_bbaaaabb\_aa\_ab`a^a  
@HWI-EAS443:3:92:844:1037#0/1  
TAAGAATCGGTTCCAAGGGGATGTGTTTGTGCATAAGGGA  
+HWI-EAS443:3:92:844:1037#0/1  
aba^^aYT\_¥Z\_^R[LUa\_aa^R]RXMZ]aVUTG^¥T¥^\_  
@HWI-EAS443:3:92:853:917#0/1  
CACTATGAGGAATGCTCCTGTTATCCTGATTCTAGTGAAA  
+HWI-EAS443:3:92:853:917#0/1  
abaaa\_aaa`aaa\_a`a\_aa``aa]\_\_`aa`^a\_\_]\_```  
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+HWI-EAS443:3:92:907:1536#0/1  
`^abababb\_babaaabaaba\_aaa`abb`[\_`\_aaabba  
@HWI-EAS443:3:93:1004:1994#0/1  
ACTGGGACAGACAATAACTTCTCAATAAAGCAAGATATCG  
+HWI-EAS443:3:93:1004:1994#0/1  
a`aa``aaaaa¥`aaaaZa`a`\_aaaa`a]\_a`a`\_\_`Qa  
@HWI-EAS443:3:93:102:1399#0/1  
ATAAGACCTTGCTTCTGGGTTGAACTAATCAGAGGGCGAC  
+HWI-EAS443:3:93:102:1399#0/1  
a^a`a\_aa`^aa``\_aaa\_U`a\_aXa\_]^[\_\_]\_\_UY\_\_X  
@HWI-EAS443:3:93:1085:890#0/1  
GCAAGGTCTTATACAATCCAGCCCTGTTAGTTCTGGATGC  
+HWI-EAS443:3:93:1085:890#0/1  
T`Z^^bV]a`bZ[0a\_`ULZa[a`¥\_V[aa\_a\_aa[Pa]U

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+HWI-EAS443:3:93:1103:1405#0/1  
aaaaYabaaaaa\_`aaa`X`aaa\_\_\_\_\_a\_]a\_^\_^G[\_\_\_  
@HWI-EAS443:3:93:1112:1976#0/1  
AGGATATGCTGCTCCCGCTAGTCCAGATTGTGTTCTCTTT  
+HWI-EAS443:3:93:1112:1976#0/1  
aaa^abaab¥Q`aW[a]Y^]WKS¥X`\_^aGU`Y`T¥TP]¥  
@HWI-EAS443:3:93:1116:1425#0/1  
AATTGATGCCATCATGACAAGCACTTGCTGACCAAGCGAC  
+HWI-EAS443:3:93:1116:1425#0/1  
\_\_V[LYP[\_X]]UVR¥FX¥[\_`\_]\_^VTS[VZURWXZU[YY  
@HWI-EAS443:3:93:114:440#0/1  
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+HWI-EAS443:3:93:114:440#0/1  
a\_a`\_T\_Z`\_\_]^\_^\_][Z]^\_^\_][\_\_\_^]]Y  
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+HWI-EAS443:3:93:1263:174#0/1  
a`aa`\_aaaRaa`\_b`b\_\_]`aaaU\_\_^]`^\_\_VV\_BBBBB  
@HWI-EAS443:3:93:1360:186#0/1  
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+HWI-EAS443:3:93:1360:186#0/1  
Q`bb]Va\_^OZ`aaVaUGOYW`aaaba\_\_a`\_a^ZVaWQB  
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ACAGACACTATCAAGAGTTGGAGAAACAATATATTGAGAA  
+HWI-EAS443:3:93:154:1891#0/1  
`aZZ`^^`a`a^\_\_¥¥¥[¥X[]T\_\_\_UT`\_Z[^[Y\_]\_\_  
@HWI-EAS443:3:93:1552:350#0/1  
GTGAAATCACATGTGTGTGCAGGGATAACTGGCATGGCTC  
+HWI-EAS443:3:93:1552:350#0/1  
¥ababbb^`QZb\_\_b^`abYbaba¥aaa\_]a]G^\_aVBBB  
@HWI-EAS443:3:93:1556:1832#0/1  
CATGATGGCATCAATTGGCTAACAATTGGAATTTCTGGCC  
+HWI-EAS443:3:93:1556:1832#0/1  
a`baaabaab]b\_aaa^`S^^`b^a\_\_\_a`a\_\_\_`]\_ZV  
@HWI-EAS443:3:93:1703:476#0/1  
GTCATTTAGCAAGGCCCTTGAGTCAAGAAGAAGGTTCTG  
+HWI-EAS443:3:93:1703:476#0/1  
a\_aa`aa`\_`\_\_^]]¥¥`\_a\_a¥S\_]¥Y¥a¥¥\_^WWT¥`  
@HWI-EAS443:3:93:1760:1091#0/1  
ACCACA ACTGCCTGTCTTATCATTAGGGCGTGGATTGTCT  
+HWI-EAS443:3:93:1760:1091#0/1  
``\_]`\_]¥aa]a`a\_aaaa`aa`Y`Y¥^^]a\_\_\_VUNX^  
@HWI-EAS443:3:93:179:1726#0/1  
TAAAAGCATTAGTTCAAGAAACGGTTTTGAGATGATTTGG  
+HWI-EAS443:3:93:179:1726#0/1  
X`a^V`\_`\_R]U]ZZ¥``[L¥`]]`XYZ^XVUU[¥U]ZWBB  
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GAGGAATTGCCCGCTAATTTACGGAAACCACTGACTGTC

+HWI-EAS443:3:93:231:691#0/1  
a`a^PP]]a[[^S[a^`[[\_\_\_\_[^U\_\_T`Y¥YYY¥¥^UW  
@HWI-EAS443:3:93:241:1217#0/1  
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+HWI-EAS443:3:93:241:1217#0/1  
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GTTCTGCATTCCAAGGGGAGCATGATATGAATGGTCCC  
+HWI-EAS443:3:93:267:566#0/1  
a¥Y`a^Y`^`\_\_\_\_`\_`\_Y`a[¥\_] [X\_UUW\_`^YUX¥  
@HWI-EAS443:3:93:268:435#0/1  
CCGTGAAATTAGCGGGCAATTCCTCTCTCTGCCCTGTTAG  
+HWI-EAS443:3:93:268:435#0/1  
aab`b`a\_]\_a`\_`a`a`\_XT]YY¥\_Z\_^Ta\_V\_¥`W\_¥`  
@HWI-EAS443:3:93:324:409#0/1  
ACTCAATTCAACTTGGGAATCAAAATCAGATTGAAACATG  
+HWI-EAS443:3:93:324:409#0/1  
aU\_[\_Y\_`\_]^[[\_^\_AY]^^[\_\_T¥]Y^\_Y^^^]YZY^^B  
@HWI-EAS443:3:93:361:881#0/1  
GTCTGAATGTGCATGTGTAAATGGTTCTTGCTTTACTGTA  
+HWI-EAS443:3:93:361:881#0/1  
`Kaa`ZY¥a^bYaabZa`]X[X¥`S]P^\_a[a\_[[\_\_\_\_Z\_  
@HWI-EAS443:3:93:389:580#0/1  
TGGACAGTCAGTGGTTTCCGTGAAATTAGCGGGCAATTCC  
+HWI-EAS443:3:93:389:580#0/1  
\_^^`z]abbV^\_S]`TaaZ\_^aa`]`YMP[\_Y]Q^ZS]  
@HWI-EAS443:3:93:404:1699#0/1  
CTTGGCCAGACGGTGCTGAGTTGCCATTTACCATTGACAA  
+HWI-EAS443:3:93:404:1699#0/1  
a]YQ¥`a`]`X\_RUTXYFWWX[[UUSVT]YZ¥\_¥[¥]`]  
@HWI-EAS443:3:93:42:1407#0/1  
GGGCTCCTGTCTTTAATGGTTCCATTGGAATGTTTGTCT  
+HWI-EAS443:3:93:42:1407#0/1  
aa\_b`aaba¥aa`a\_Va`a¥\_aa\_a`\_`^\_\_`^`\_`\_YU]^  
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GAATGCAGAACCTTCTTCTTACTCAAGGGGCCTTGCTAA  
+HWI-EAS443:3:93:439:1988#0/1  
abbaaabaabbbaaa`aaaaabbaabaa`W\_`ab``aaaa  
@HWI-EAS443:3:93:454:63#0/1  
ACCACAACCTGCCTGTCTTATCATTAGGGCGTGGATTGTCT  
+HWI-EAS443:3:93:454:63#0/1  
aXaaaaa\_`a`\_]a\_`a`^`aZ^\_UP¥W^\_W^^WUWB  
@HWI-EAS443:3:93:46:342#0/1  
ATCATTAGGGCGTGGATTGTCTCCGAAAATCCCACTGCAT  
+HWI-EAS443:3:93:46:342#0/1  
a][`a]^`a\_aa0\_`\_`\_`R¥[^`\_NZ`XZ¥XYRX^VY  
@HWI-EAS443:3:93:470:372#0/1  
GCATGTGTAATGGTTCTTGCTTTACTGTAATGACCGATG  
+HWI-EAS443:3:93:470:372#0/1  
`¥^¥N¥S¥^V`a`S\_¥]````a`\_`^`a\_`^`a``[]^`\_`

@HWI-EAS443:3:93:661:786#0/1  
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+HWI-EAS443:3:93:661:786#0/1  
Ya^TH^`a`X]aa`aaaa]`Y^`]baaa\_\_^J`aTP  
@HWI-EAS443:3:93:678:1154#0/1  
TGCCCCGCTAATTTACGGAAACCACTGACTGTCCAGCAGC  
+HWI-EAS443:3:93:678:1154#0/1  
a\_\_^b`]`\_¥aaaaa]\_]Xa\_^`\_\_^\_\_Z^\_]^^¥^W  
@HWI-EAS443:3:93:68:1954#0/1  
ATCCTATCTGATATTCCAGATTCTGGTTGAAAGACACCCA  
+HWI-EAS443:3:93:68:1954#0/1  
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@HWI-EAS443:3:93:804:1237#0/1  
CCTGTCTTTAATGGTTCCATTGGAATGTTTGTCAATTTAGC  
+HWI-EAS443:3:93:804:1237#0/1  
aaba\_¥a[`aa]aaY[\_]¥[`aaX\_a[]\_\_[^0\_\_^] []  
@HWI-EAS443:3:93:836:2024#0/1  
TGCCCCGCTAATTTACGGAAACCACTGACTGTCCAGCAGC  
+HWI-EAS443:3:93:836:2024#0/1  
aabb]a`abbaaa`\_a`\_aaY^a\_[U` ``¥X]\_`\_¥Z[¥  
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+HWI-EAS443:3:93:887:566#0/1  
X¥aabVb]bb`bab]b[b[R\_Jbb^`\_Q[`aaa\_bXY¥]^  
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CAATTGTTAGCCAATTGATGCCATCATGACAAGCACTTGC  
+HWI-EAS443:3:93:949:1656#0/1  
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TAGGGTTCGATATGGGCTCCTGTCTTTAATGGTTCCATTG  
+HWI-EAS443:3:93:981:140#0/1  
a\_ba`^a]ba\_\_a¥`^`aTU`a^\_\_[a\_¥^`aZ`^VNZ^a  
@HWI-EAS443:3:93:990:723#0/1  
GTGGTTTCCGTGAAATTAGCGGGCAATTCCTCTCTCTGCC  
+HWI-EAS443:3:93:990:723#0/1  
a\_baW`\_a[bS\_\_^`ab\_aaaa^\_]a\_aUaa\_¥\_TW`ZN  
@HWI-EAS443:3:94:1013:1052#0/1  
GACCTTGCTTCTGGGTTGAACTAATCAGAGGGCGACCCAA  
+HWI-EAS443:3:94:1013:1052#0/1  
`P]a]ab``]Z[]\_ZR\_¥[aTaa\_]\_a]`aaa\_`\_]`XU  
@HWI-EAS443:3:94:1038:1654#0/1  
CAAGAAGAAGGTTCTGCATTCCAAGGGGAGCATGATATG  
+HWI-EAS443:3:94:1038:1654#0/1  
aaa`^`a`a`Y\_Ya`aa`\_`Sa\_aa`\_\_\_\_`\_a^a\_^\_]`  
@HWI-EAS443:3:94:1087:466#0/1  
CTGGGACAGACAATAACTTCTCAATAAAGCAAGATATCGT

+HWI-EAS443:3:94:1087:466#0/1  
Z[¥Z[S\_V]VUabaa^¥a^Z^¥Y\_ba¥abZa[¥X`\_\_\_\_b[  
@HWI-EAS443:3:94:1209:618#0/1  
CACTGACTGTCCAGCAGCAAAGTTGGTGTGCTGATGTTA  
+HWI-EAS443:3:94:1209:618#0/1  
abbbbabbaaa`b`[b\_[aab`b[b\_[aa[]a]\_aaaa\_  
@HWI-EAS443:3:94:1235:48#0/1  
ATTCCAATGGAACCATTAAGACAGGAGCCCATATCGAAC  
+HWI-EAS443:3:94:1235:48#0/1  
a``YXT``¥XJ[T\_\_\_\_`ZTZ`\_]YP^^^¥YRX\_`^0^0]L  
@HWI-EAS443:3:94:1254:560#0/1  
TCCCAGTCCATCCGTTCCGATCCCAAATCATCTCAAAACC  
+HWI-EAS443:3:94:1254:560#0/1  
a`ab\_`Z`\_a`UVa^TX^¥`^T]]``\_\_\_\_]]a\_`\_^\_XX  
@HWI-EAS443:3:94:1385:650#0/1  
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+HWI-EAS443:3:94:1385:650#0/1  
a`bb^ab\_\_\_\_`aa\_\_aa^\_\_^Y`^^0]R]¥]WZ¥ZHWWNP  
@HWI-EAS443:3:94:1391:1742#0/1  
GAAAGACACCCACGGTTCGATTCGAGCCATGCCAGTTATCC  
+HWI-EAS443:3:94:1391:1742#0/1  
a`a`aa^a`[^`S^`NN`Q^SG¥VQUHSTYGK\_WN[WVBB  
@HWI-EAS443:3:94:1410:1235#0/1  
GCGACCCAAAGAGAACAATCTGGACTAGCGGGAGCAGC  
+HWI-EAS443:3:94:1410:1235#0/1  
ab`X^`\_0[a\_ZbKWP`NP`¥Qaa]^ZJX^X\_\_\_\_\_]GX¥R  
@HWI-EAS443:3:94:1443:295#0/1  
CAACGGCATAATAACAGACACTATCAAGAGTTGGAGAAAC  
+HWI-EAS443:3:94:1443:295#0/1  
a\_bab`T]\_ZS`\_\_¥aaa`a^aaUZZP`[aZ`]`\_`]¥`P  
@HWI-EAS443:3:94:1456:236#0/1  
GATTAGTTCAACCCAGAAGCAAGTCTTATACAATCCAGC  
+HWI-EAS443:3:94:1456:236#0/1  
[aab\_¥aa`aTV^\_aaaa¥aaba]Yaa`a^J^`X\_`^`^  
@HWI-EAS443:3:94:1573:792#0/1  
TCCTGTTATCCTGATTCTAGTAAATCACATGTGTGTGCA  
+HWI-EAS443:3:94:1573:792#0/1  
a\_aaaaaaa¥`abYaa\_`a`aaa\_\_a\_a`a`aZa]a]^  
@HWI-EAS443:3:94:1590:1308#0/1  
ATGCAGTGGGATTTTCGGAGACAATCCACGCCCTAATGAT  
+HWI-EAS443:3:94:1590:1308#0/1  
aaXL\_a[S\_b¥\_Z]a\_Z]Pa`V\_]RPXZ\_ZP[aUO¥[RZ  
@HWI-EAS443:3:94:1601:748#0/1  
GTCTGTCCCAGTCCATCCGTTCCGATCCCAAATCATCTCA  
+HWI-EAS443:3:94:1601:748#0/1  
a``aa]^`^^aa]\_[a\_]`\_`^UTX^Y]^`a\_^R\_\_V\_Y]  
@HWI-EAS443:3:94:1613:1110#0/1  
CAAAATCAGATTGAAACATGCAATCAAAGCGTCATTACTT  
+HWI-EAS443:3:94:1613:1110#0/1  
a`]¥P\_^aaaabba[]LX^\_G\_a\_Z`¥PaYaWU^``\_^a

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TGCATGTGTAATGGTTCTTGCTTTACTGTAATGACCGAT  
+HWI-EAS443:3:94:1613:943#0/1  
aaa\_a`]baY\_a\_Wa]UEU`\_\_aadWY]aW\_a¥]Y\_Z[J\_  
@HWI-EAS443:3:94:1675:1873#0/1  
GGACCACAACCTGCCTGTCTTATCATTAGGGCGTGGATTGT  
+HWI-EAS443:3:94:1675:1873#0/1  
aUa¥^`aabWaaZ\_IaZ\_aaW[VX\_]`[UWSSR`^^YYaR  
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+HWI-EAS443:3:94:1711:463#0/1  
a[aa`aaa`a`\_\_^a\_`a`a]a]aU\_aa^`\_`T^^`U  
@HWI-EAS443:3:94:1753:1707#0/1  
ATATTCCAGATTCTGGTTGAAAGACACCCACGGTCGATTC  
+HWI-EAS443:3:94:1753:1707#0/1  
^aaaaab¥\_R\_a^`\_b`a`]¥[XXYb]\_`\_`a[GR]VNSR  
@HWI-EAS443:3:94:1778:380#0/1  
CTTGGAATGCAGAACCTTCTTCTTGACTCAAGGGGCCTTG  
+HWI-EAS443:3:94:1778:380#0/1  
ab\_b[Q`\_a\_a`aaa\_Xaa]aaKaa\_a\_]^[^aVaX]YGY`  
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+HWI-EAS443:3:94:210:270#0/1  
`a`aabb[abaaaa`a`a`W`¥`a\_\_^\_\_`\_^\_]`^`V`  
@HWI-EAS443:3:94:252:801#0/1  
TTGGTCAGCAAGTGCTTGTGCATGATGGCATCAATTGGCTA  
+HWI-EAS443:3:94:252:801#0/1  
aab]GZabaa`aUa`a`a^a`aa^`a\_\_\_\_`\_`Z\_\_a^¥Z`  
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ACCAACTTTGCTGCTGGACAGTCAGTGGTTTCCGTGAAAT  
+HWI-EAS443:3:94:256:111#0/1  
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GGAAACCACTGACTGTCCAGCAGCAAAGTTGGTGTGCTG  
+HWI-EAS443:3:94:290:1205#0/1  
ZY¥aa¥aQ^`\_Z`]]`^Z¥\_TX\_ZIZVWZ`ZQMNZ[[[]U  
@HWI-EAS443:3:94:295:389#0/1  
ATCGACCGTGGGTGTCTTTCAACCAGAATCTGGAATATCA  
+HWI-EAS443:3:94:295:389#0/1  
a\_\_aa^aa^aaaZa]^U\_]^\_]\_\_a\_\_^X¥\_^]ZZ^ZZ]  
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CACAAGAGTCTGAATGTGCATGTGTAATGGTTCTTGCTT  
+HWI-EAS443:3:94:304:653#0/1  
aaaabbaa]aab`aab\_aaba`a`\_a\_aaa^a\_a`\_]a\_  
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GTGCAGGGATAACTGGCATGGCTCGAATCGACCGTGGGTG  
+HWI-EAS443:3:94:327:620#0/1  
\_QZY[\_b`¥^X]¥`]QYaXYVMSRYRVLKTNKPxJBBBBB  
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GGCTCCTGTCTTTAATGGTTCCATTGGAATGTTTGCATT

+HWI-EAS443:3:94:329:440#0/1  
abb[\_b\_WZOXbbaa`aaZ\_aW^a`aaU`aa^aa\_`¥Za^  
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+HWI-EAS443:3:94:403:1651#0/1  
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+HWI-EAS443:3:94:521:688#0/1  
aZaY\_]aaY\_\_`\_[\_X\_aQa\_T`]S`¥a]UG[^\_MPX\_  
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+HWI-EAS443:3:94:544:1667#0/1  
aV```a`\_\_a`a`^`\_`\_\_^`\_]``\_ZXY]\_^0\_]¥^W]]  
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GTGTAATGGTTCTTGCTTTACTGTAATGACCGATGGACC  
+HWI-EAS443:3:94:559:870#0/1  
a\_aZ`]Z\_aa\_a`aaa]``a]W]a^[\_]^W¥S`]¥\_]XY]  
@HWI-EAS443:3:94:684:803#0/1  
GTAAACAGTGACACTGTGGGTGGTCTTGGCCAGACGGTG  
+HWI-EAS443:3:94:684:803#0/1  
\_]WO[M]ZTX^¥U^`Ra\_VH]ZLMY\_[Q][RWa¥ZP^G\_  
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+HWI-EAS443:3:94:713:1170#0/1  
ab`X`a`aa`]a`Xaaa^a¥¥a``Z`a\_`ba`a`\_`aaa`  
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GCGGGAGCAGCATATCCTTTTGTGGTGTAAACAGTGACAC  
+HWI-EAS443:3:94:741:1615#0/1  
aa^Z¥U`]VXaaa`^0]Va\_a\_G`^KZ]````ZNa`U^\_  
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CATTAGGGCGTGGATTGTCTCCGAAAATCCCAGTGCATAT  
+HWI-EAS443:3:94:76:610#0/1  
aaaaaaaaa`aa```a\_a```\_WT][^¥ZWT]]^[ZZ]`  
@HWI-EAS443:3:94:785:880#0/1  
ATTCATATCATGCTCCCCCTTGAATGCAGAACCTTCTTC  
+HWI-EAS443:3:94:785:880#0/1  
^`Z`^¥aa`\_^]T]]aW`^Ya`^]WZ`a¥Ya`V^[^XLZ  
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CAGTGGTTTCCGTGAAATTAGCGGGCAATTCCTCTCTCTG  
+HWI-EAS443:3:94:803:1438#0/1  
``^PZ\_\_`a^][Z¥]\_]\_SR^[P^^`\_a\_Q¥ZGV¥¥^W\_  
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+HWI-EAS443:3:94:885:1595#0/1  
aabaaaaaaaaa`aaaa`aaaa``aaa`a¥a]``a\_a\_  
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+HWI-EAS443:3:94:93:1121#0/1  
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@HWI-EAS443:3:95:1062:892#0/1  
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+HWI-EAS443:3:95:1062:892#0/1  
abb`b`aabb`abba`abaaa`aa\_`b`baaa``a`\_]`\_`  
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TTCATATCATGCTCCCCCTTGAATGCAGAACCTTCTTCT  
+HWI-EAS443:3:95:1105:847#0/1  
a^`baab¥aaa[a]\_aa\_aaaa``\_\_aaa`\_\_aa]\_^Ua  
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AGCGGGAGTTTTGTTTCAGCATCCAGAACTAACAGGGCTGG  
+HWI-EAS443:3:95:1141:1222#0/1  
ababbbbaaab\_bb\_aaa[^aaaYaa^a`a\_a\_aaa\_\_`\_a  
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ATACGGCAATGGTGTGGATAGGGGAACTAAAAGCATT  
+HWI-EAS443:3:95:1156:1176#0/1  
aba\_]¥ab\_abbW\_]a]aba]\_¥`aKaaa`\_\_]^a¥^`¥  
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+HWI-EAS443:3:95:115:635#0/1  
¥bab`b^`a```a\_^\_a`a^^^`X^YZ^`^^`¥LXW¥]  
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+HWI-EAS443:3:95:1232:573#0/1  
aaaa`\_a[\_aaaa]U`\_`\_Ua[[La\_`aSa¥¥a`\_^\_V]  
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GCAATCAAAGCGTCATTACTTATGAAAACAACACTTGGGT  
+HWI-EAS443:3:95:1312:1239#0/1  
abaXa¥^aab`b[a`b`\_aa[aabb]aa]aa`\_]a`aYP  
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CCTCTCCATACAACCTCAAGATTTGAGTCAGTCGCTTGGTC  
+HWI-EAS443:3:95:1360:1195#0/1  
abbbbabbbbabbabbbbbaabbbbabbbaaaa`bbab]V  
@HWI-EAS443:3:95:1401:159#0/1  
ATACTGGACCACAACCTGCCTGTCTTATCATTAGGGCGTGG  
+HWI-EAS443:3:95:1401:159#0/1  
abbaabab¥ab[aaWaaUJZa[\_ab`a`aa\_a`aaU]X\_^  
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CAGACTCTTGTGTTCTCAATATATTGTTTCTCCAACCTCTT  
+HWI-EAS443:3:95:1407:1015#0/1  
^aba¥aaa\_b¥bbb\_bXaaaab\_bbaaba\_aW\_aaWa]aa  
@HWI-EAS443:3:95:1423:912#0/1  
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+HWI-EAS443:3:95:1423:912#0/1  
a\_`babYb`]b`aLS^J]]]aab`aaaa`aa`aa\_Yb`[¥  
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+HWI-EAS443:3:95:1426:1380#0/1  
W`ababbb` `` `bbabb\_[b` `bbaSK¥bb\_a` ababb[[  
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+HWI-EAS443:3:95:145:1167#0/1  
`¥abbb\_bbaaa[babXaa\_ZYa`^`¥L\_baa\_a\_[^`\_F  
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+HWI-EAS443:3:95:1530:1226#0/1  
abbbabb`aba[aabb`baa^aab]`¥aaa\_abb\_aaaa  
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AGATTCTGGTTGAAAGACACCCACGGTCGATTCGAGCCAT  
+HWI-EAS443:3:95:1583:192#0/1  
` `Z`^`^a[bb`b^a]\_X[RGUaXbaRZ]UaaY^^TVR^T  
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+HWI-EAS443:3:95:1623:1540#0/1  
ab[ab` `` `aab\_aa^aY`a\_\_\_\_\_a`aa\_^aa]\_\_aVO\_XI  
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+HWI-EAS443:3:95:1624:756#0/1  
\_ab\_[ba\_b]Va^]Ya`Q]a\_^aa`\_aWN`YSY\_aa[BBB  
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GGTTGAAAGACACCCACGGTCGATTCGAGCCATGCCAGTT  
+HWI-EAS443:3:95:201:1535#0/1  
^^aab¥K\_]aabba^a¥Q¥TVWVZ[ ]\_Z]]NP^W]ZPT  
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CACAACTGCCTGTCTTATCATTAGGGCGTGGATTGTCTCC  
+HWI-EAS443:3:95:245:1459#0/1  
aaabbb\_bbaab\_\_aabb\_aba`a\_aa^\_\_a`\_`^^^\_]Z  
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+HWI-EAS443:3:95:286:1880#0/1  
\_T^\_ZVV` ]Z[ ]^a` `TORNRPX¥]MW]TWWPZ[\_XXWUT  
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ATTTATTCCTACGATATCTTGCTTTATTGAGAAGTTATTG  
+HWI-EAS443:3:95:290:190#0/1  
abb\_baba`ab¥` `aa`Zaa`\_`aaabaa`a]\_a\_`a` `\_  
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ATCAAAGCGTCATTACTTATGAAAACAACACTTGGGTAAA  
+HWI-EAS443:3:95:362:1809#0/1  
¥Q^`aa\_\_YJ]^V¥a\_b]Xa^¥]aab`a^a]^\_a[NO`I`  
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TGGAGAAACAATATATTGAGAACACAAGAGTCTGAATGTG  
+HWI-EAS443:3:95:401:813#0/1  
aababa^\_`TQ]aaaaa` `` `a`a\_a]]L^¥`\_`H¥¥`P\_  
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GAACCATTTACACATGCACATTCAGACTCTTGTGTTCTCA  
+HWI-EAS443:3:95:495:1935#0/1  
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TCCAGATTCTGGTTGAAAGACACCCACGGTCGATTTCGAGC  
+HWI-EAS443:3:95:558:138#0/1  
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CGCCCTCTGATTAGTTCAACCCAGAAGCAAGGTCTTATAC  
+HWI-EAS443:3:95:572:1435#0/1  
abb`bbbabbabb^abbb`aabb^bbbbbbaaTababaa¥  
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CATTATATCATGCTCCCCCTTGAATGCAGAACCTTCTT  
+HWI-EAS443:3:95:590:439#0/1  
W[[` `¥[\_b`a¥`^a¥MaZaYa¥X[\_Ya`Y]NZZ\_`]]\_  
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+HWI-EAS443:3:95:76:623#0/1  
ab^Vb^abaa\_aab`\_b\_abaaaa^aa[]R¥`a\_^]a` `\_  
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aa`ab[ `a` `bbbaaa`aa\_aabaa\_\_aaaX]\_a`^a` `\_  
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+HWI-EAS443:3:95:985:1795#0/1  
aZ^ab`¥^]]X¥¥Y^b]`^W`TXVGSZTa\_PWSIW^^`R[  
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+HWI-EAS443:3:96:1107:1585#0/1  
a^aab[aaaa`]^\_b\_aaabZb\_\_YUXa\_aa` `aaa¥baU  
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+HWI-EAS443:3:96:1124:1670#0/1  
\_`¥Z^`aaaaaaaaaaaaaaaa`aaa^Vaa\_\_\_a`\_\_¥P`Z  
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+HWI-EAS443:3:96:112:1166#0/1  
J\_[ `abaYaaR`Ta¥WZ[Y^`S\_baW^IV\_L^¥P\_Z\_`¥`  
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a`]^M\_aaa[ `a\_[ `]^RaaYLYa^`]Y\_a`GU]YYR  
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+HWI-EAS443:3:96:1219:1559#0/1  
\_bb^b`babbbbaa`ba`baa`b^aa^^aVa\_ba]aaa[a  
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+HWI-EAS443:3:96:1240:1173#0/1  
a[0`¥S`¥S¥]¥Ma\_Z[YUZU¥^PZ¥WU¥¥WUBBBBBBBB  
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+HWI-EAS443:3:96:1278:659#0/1  
\_P`[XTXN]PXR[\_\_\_Y]YYZ[VXZUNLX^R]^]]YXRBB  
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+HWI-EAS443:3:96:1303:1386#0/1  
a`Za`\_b\_aaaY]Z^^`¥SjWa¥\_\_[]¥XRXX^Z¥]WYBB  
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GTTCAAGAAACGGTTTTGAGATGATTTGGGATCCGAACGG  
+HWI-EAS443:3:96:1347:683#0/1  
a`baaaaaa[ab\_bbba^a]a]V`aa`aZ]\_^\_\_\_Y\_a  
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GGTGAAGTTCCTCTCCATACAACCTCAAGATTTGAGTCAG  
+HWI-EAS443:3:96:1379:606#0/1  
a]Zaba[aba\_Sa\_aOU`a\_Y]\_\_\_T\_^a`[Waa]\_]U]B  
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+HWI-EAS443:3:96:1398:599#0/1  
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+HWI-EAS443:3:96:1500:1005#0/1  
`¥ab`\_abbaa\_aabba\_a\_¥a\_aa\_\_`a^```a¥\_XNY\_  
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CAGTGACACTGTGGGTTGGTCTTGCCAGACGGTGCTGAG  
+HWI-EAS443:3:96:1503:1009#0/1  
abb¥Y¥`babbabbaabb]^a]ab¥`\_a]¥aaU\_N\_TU^  
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+HWI-EAS443:3:96:1560:1700#0/1  
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+HWI-EAS443:3:96:1578:1023#0/1  
aaaa\_Z`ab`babb\_Za]a`a`ba`[¥`^``aaa]SY\_Y  
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+HWI-EAS443:3:96:1674:1716#0/1  
¥¥`bb`a\_b¥`aaa`aaaaabaabb^[[DNWba`a¥HW`B  
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CAAGAGTCTGAATGTGCATGTGTAATGGTTCTTGCTTTA  
+HWI-EAS443:3:96:196:1722#0/1  
aa`U^^`aaaa\_`[Z\_a`^a]aY^a\_\_\_a^^``\_a  
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+HWI-EAS443:3:96:235:1053#0/1  
``babb^aaaaP]aS``\_X]a]Ua\_SSWS\_Y]`¥M\_¥]B

@HWI-EAS443:3:96:245:1863#0/1  
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aaab]aaaa\_]a`a\_```aaa\_]`^a¥^^\_^^a\_\_\_\_\_^Y\_  
@HWI-EAS443:3:96:275:752#0/1  
GGGAGTTTTGTTTCAGCATCCAGAACTAACAGGGCTGGATT  
+HWI-EAS443:3:96:275:752#0/1  
^b`I\_¥`Za\_]aaaYaVW\_X\_a`\_\_`^[^\_ZUWa^aaXUV  
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AACAGGGCAGAGAGAGGAATTGCCCGCTAATTTACGGAA  
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`[\_a\_^Zaaab`b\_b]``XU\_Z[S¥MX^\_^ZZ¥ZVXZU]  
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aa`a^\_ab``\_^[[b^VY^aaaa\_a`aaR^a\_WR¥Z[\_a  
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Uaa`Y\_¥]`a^aba^\_\_^^[aa`[a`b`^^^a`¥aWW]\_  
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a\_a\_\_a^aba` ``^a^aa`\_\_^^^` `]a^aa`\_\_^^^  
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+HWI-EAS443:3:97:400:1765#0/1  
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abaa\_a`a``aaYa\_a\_a\_\_`\_`XY\_¥\_U\_`\_¥^Q^¥¥¥Y  
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+HWI-EAS443:3:99:379:707#0/1  
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GGTCCATCGGTCATTACAGTAAAGCAAGAACCATTTACAC  
+HWI-EAS443:3:99:552:1077#0/1  
aa]a\_aa`a\_]a`\_a¥]\_a]`Y`\_\_]T]¥^^Y`^\_\_`^]\_  
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GCTCCCGCTAGTCCAGATTGTGTTCTTTGGGTCGCCCT  
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+HWI-EAS443:3:99:626:778#0/1  
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+HWI-EAS443:3:99:674:942#0/1  
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+HWI-EAS443:3:99:753:1316#0/1  
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+HWI-EAS443:3:99:787:1805#0/1  
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+HWI-EAS443:3:99:800:375#0/1  
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+HWI-EAS443:3:99:812:1751#0/1  
W\_bbaZ^\_S\_b^[Y¥bba¥a^b\_J\_P\_a`ba\_HXV^V[b`  
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+HWI-EAS443:3:99:842:1748#0/1  
aa\_a`a`^a]]`\_`aaabU`\_\_a^\_YU\_\_`\_¥^a`Y[]\_a  
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+HWI-EAS443:3:99:844:1436#0/1  
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+HWI-EAS443:3:99:954:1627#0/1  
a`abaa`aaaaaaaaabba\_a`aaa]aaba¥ab`baaa`  
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+HWI-EAS443:3:9:1002:729#0/1  
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+HWI-EAS443:3:9:1003:895#0/1  
aaabaa]aH^\_aa\_\_Y`\_\_\_\_]^\_\_\_\_V^`\_¥\_\_Y\_W]^\_  
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a^bababbbbababababab`abaaaabaaaaba`a`aa  
@HWI-EAS443:3:9:1057:875#0/1  
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+HWI-EAS443:3:9:1057:875#0/1  
aaaaYRR¥RVa\_Z\_X`[KQa`a`\_UUP]NV\_[NW\_P¥U¥¥  
@HWI-EAS443:3:9:1059:1147#0/1  
GGGATTTTCGGAGACAATCCACGCCCTAATGATAAGACAG  
+HWI-EAS443:3:9:1059:1147#0/1  
¥a\_\_bbb`ba`abbbbZbaW`^`aVaa`Uaa`abaaaaa

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TGTTAACATCAGCAACACCAACTTTGCTGCTGGACAGTCA  
+HWI-EAS443:3:9:1273:81#0/1  
\_Q\_^R]XVaXQ]aa]aaU¥¥`Y[\_\_\_L]]H]aaQTNZM^B  
@HWI-EAS443:3:9:131:982#0/1  
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+HWI-EAS443:3:9:131:982#0/1  
a\_bbbabbL]R]\_abbaa`a`[¥]aXX]\_a\_H]NQS^U¥B  
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+HWI-EAS443:3:9:1410:1275#0/1  
`V`X]]V`aa¥aaa¥0\_I¥Q\_]YW\_[X]^TPY`\_WG[\_[  
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a^¥aa`^`\_`a\_a`aYaU\_\_[[W^S]]S¥UNSX]X]UXY  
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+HWI-EAS443:3:9:1429:1239#0/1  
`¥`a\_\_a\_\_Zaba^^aaa`T\_a^[]`aa]`aaZ\_\_YZ  
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+HWI-EAS443:3:9:1461:908#0/1  
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+HWI-EAS443:3:9:1507:308#0/1  
a\_Z]b¥R]b`aaa`aa\_\_V`a^V\_^ON¥`]][\_¥^\_VU^Z  
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+HWI-EAS443:3:9:1536:104#0/1  
aa`aa^`^]Z\_Z^U¥W¥WU^WWWPWUW¥WWWUWWWSSUSU  
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+HWI-EAS443:3:9:1564:1942#0/1  
aaa`^\_\_a\_a`^¥\_\_XWZ^a\_]^^^[\_^\_\_\_\_\_[¥`¥  
@HWI-EAS443:3:9:1615:1531#0/1  
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+HWI-EAS443:3:9:1615:1531#0/1  
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+HWI-EAS443:3:9:1622:166#0/1  
^b]`a\_bbaba\_a]^b[`¥a``¥X^[\_]V\_] [T]]^¥\_  
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a¥]\_aaaZ`aa¥\_H¥^[\_`\_\_WY^XRN^a\_\_^QY]Q]^¥^  
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+HWI-EAS443:3:9:234:246#0/1  
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aa`a^aaa^aa`b`\_aa`aa`aaa[`a`a¥a`\_\_\_\_]\_]\_  
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a`aaaa[``abaa\_aa`a\_\_Z`X¥`\_a`a\_a\_\_Z``]^  
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\_`a¥Xa\_UGTbbbbbaR^baaa]aabbba`a¥a^^`a¥aa\_  
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+HWI-EAS443:3:9:323:429#0/1  
aaaa`aaa`aaa`aaaa`aa```\_`\_a\_\_\_a\_\_\_]`¥a  
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+HWI-EAS443:3:9:454:531#0/1  
aa`aaaaaaaa`a`aaaaa`a¥aa`]`W]a\_\_\_]\_T]  
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+HWI-EAS443:3:9:481:410#0/1  
aa[\_aW`\_]a¥`V¥ZW\_^]WYWV^\_X]^\_\_\_]SZWSZ]SZ  
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+HWI-EAS443:3:9:493:2027#0/1  
[`ba^a\_`^abaab]\_[T^I¥\_] [a`Z¥UZ^WNT]`aa`\_  
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+HWI-EAS443:3:9:548:1093#0/1  
aa`^aaaa`^`aaa\_]Y^]¥a\_aa]``^Ua\_[\_`\_W\_¥\_



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AACTTGGGAATCAAATCAGATTGAAACATGCAATCAAAG  
+HWI-EAS443:3:9:54:1342#0/1  
aa`Z\_\_Z```aaa`[^`aaa]M¥a\_aaabaaaaaaaa`a\_  
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GGCTGTGTAAAGTACAACGGCATAATAACAGACACTATC  
+HWI-EAS443:3:9:566:348#0/1  
aa^`bS][^Ta`0Sa^S\_I\_\_Z^\_X\_S]\_^ZNZXW]^YTG  
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TGAGAACACAAGAGTCTGAATGTGCATGTGTAATGGTTC  
+HWI-EAS443:3:9:591:28#0/1  
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+HWI-EAS443:3:9:627:1448#0/1  
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+HWI-EAS443:3:9:72:436#0/1  
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+HWI-EAS443:3:9:752:1762#0/1  
a\_]S]^`X^`^]Ubaa`[aaa\_a\_XaU]XaNX]]Y\_^\_Y][  
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+HWI-EAS443:3:9:777:1452#0/1  
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+HWI-EAS443:3:9:923:271#0/1  
aaW`^a^\_aa`Wa\_U¥¥`aW^¥]W¥^¥W¥Z^¥^WUU¥UUW  
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+HWI-EAS443:3:9:990:1843#0/1  
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+HWI-EAS443:3:43:101:1096#0/1  
a^a`aaaaaaaaaaaa\_a` ]`\_`aaaa`Z[\_X`\_\_\_a^Z  
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ab\_```[^D0a]^¥[Z¥`a[aa^`\_\_`]aYa\_a`aaR[U¥  
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a`\_aa¥aI`^`\_aaSSS[VWNT¥PXXDRYWZ\_]YZMSS\_  
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+HWI-EAS443:3:52:757:1337#0/1  
aaaa¥a\_aa\_ab`a\_a\_baa`aaa\_\_^`a\_\_^a`````\_X\_

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+HWI-EAS443:3:17:770:1786#0/1  
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+HWI-EAS443:3:19:967:522#0/1  
aa```[[U```\_`XDZ`a\_ZY\_]\_W\_]a¥\_\_X]]\_XU  
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a`^D]a`S`bbabaabaaaa\_`aaa\_¥¥`aa\_`a\_a\_]`  
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+HWI-EAS443:3:8:1396:1269#0/1  
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aaa\_aGaV^Saa¥`aaa`]\_\_]¥]^\_\_`\_]\_Y\_X\_\_¥WF  
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Y00]Xa]]`¥a^]a]aaa`^¥\_\_][ZPW¥]\_]a`\_aa[L[  
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aa]^_U^`W]¥]_Y`W^_^]`YW]]Y^YW¥VXZ^ZXW^O
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+HWI-EAS443:3:53:86:1310#0/1
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a]``a_a]^)`a`]_``aaa_a`^_W]^_____``__X
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+HWI-EAS443:3:57:1334:505#0/1
¥]`` `b`RN¥_[OZ^V^[]ZWIX[ZVX^]QOL¥XS[P` `V
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+HWI-EAS443:3:57:1535:1529#0/1
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+HWI-EAS443:3:58:923:629#0/1
a_a`Y`aa]`W__aa^`^a___a_^_ZY]`Y_`]^Z`a
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+HWI-EAS443:3:64:815:762#0/1
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abb`_^_T[¥Z_aa_¥X]a__aa]]SS`^^Z0]X`^TZU¥
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+HWI-EAS443:3:66:1744:1167#0/1
aa¥VY`_[K_Xa_]NZaa¥_]¥]__¥]Q[^V^YXXUWY_V
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+HWI-EAS443:3:66:180:1302#0/1
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+HWI-EAS443:3:77:240:973#0/1
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a`aba]R`aaaa_Xa[]`a_a_a]I]_``_``_``_`S_
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+HWI-EAS443:3:83:1069:268#0/1
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a^a_¥a_``aaa^`a`^a_a_`___]__]``^_X^]_a]^
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+HWI-EAS443:3:88:455:667#0/1
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@HWI-EAS443:3:88:508:697#0/1
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+HWI-EAS443:3:88:508:697#0/1
aaa`YQ_Y_W_¥`¥`a¥]]Z_[¥0W^Sa[]X[_U^¥^_0J
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+HWI-EAS443:3:93:1205:858#0/1
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`_a_`aUaYbaa_a_aaaaaaaaa`_^VW`_R_^`_`_
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+HWI-EAS443:3:97:559:742#0/1
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+HWI-EAS443:3:98:680:1444#0/1
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+HWI-EAS443:3:98:839:1868#0/1
`_^`¥aa`a```]X^b[]U[aU[Y¥[ZNY__S¥S]aab^
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aa`_a`bYb_^Maba`a¥`]aa¥^`aba`a_^U`¥a`_`_`
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aZZ]_Y^FY^¥XZX¥_ZUXZ^T^^_UW¥[Z_Z[_¥YZ^X]
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^`baa_¥_baba`ba`baa`Zab[b`a¥aaaa]¥^^X[N_
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aa`]P^_aaa]_a^_¥aU¥__¥^a`Za_ZZ`_^__^X[_
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a)`][a[a__a[][[[Z[`Y[VWX^X^`^_]YPV^]YYX
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+HWI-EAS443:3:19:235:500#0/1
aaab_a[`aaa_[X]_`Z`a_¥[^`^`_a`^^`^`^`^UZT]
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+HWI-EAS443:3:19:299:1050#0/1
a`aa]aW^aaaX``_] [N[_W_^`_`_`_`^^Z^`¥^Z]Z]
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+HWI-EAS443:3:21:1233:100#0/1
aaaa_a]aaaaZa_a`baa_aaa_a^YU^__a__a][V_`
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aaaa_a`ba]`_`¥[__¥_^P]¥`^^^a^`^`^____[[^^
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+HWI-EAS443:3:32:501:1748#0/1
a¥_^Za^baa_T]R`]_]_^¥Y[`[__a_^_[WPX[^_ZU
@HWI-EAS443:3:32:798:489#0/1
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+HWI-EAS443:3:32:798:489#0/1
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+HWI-EAS443:3:42:1218:337#0/1
` `aaa`aabaababab]b_b^a` `baaabaaaaaa`^` `^`
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+HWI-EAS443:3:42:456:1249#0/1
aZR]]`Z^Va`[`] [aa`aaaa_]T_]XZ`a¥W_[a__
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+HWI-EAS443:3:45:1188:1690#0/1
`abb]`_] ^a^L`_a[a]a`__a¥W]¥`_`a`_`_`a]_]`_`
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+HWI-EAS443:3:47:1618:264#0/1
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+HWI-EAS443:3:47:706:405#0/1
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@HWI-EAS443:3:50:1135:1379#0/1
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+HWI-EAS443:3:50:1135:1379#0/1
¥Zb`T`X`XH_X^a¥` `a^aa`_I_RFSW_]Q_U¥^WZSJ
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+HWI-EAS443:3:51:1209:1275#0/1
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+HWI-EAS443:3:51:976:72#0/1
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@HWI-EAS443:3:52:584:237#0/1
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+HWI-EAS443:3:52:584:237#0/1
]^`aa`a_` ` `^¥_b]^`[_^b` ` `aaa^aaaaaaY]^`a
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+HWI-EAS443:3:55:1116:1148#0/1
M^a¥_U[T^a¥UX`[_`aa^bbTZ`aVT^a_aaa`a^`aa
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+HWI-EAS443:3:57:544:474#0/1
ab]aX[^a_^_aZb_Q_abZ¥`Y¥a[_Z^a]a^^¥][YZ`
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+HWI-EAS443:3:57:764:1345#0/1
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+HWI-EAS443:3:58:1404:578#0/1
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@HWI-EAS443:3:59:1102:854#0/1
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+HWI-EAS443:3:60:479:1592#0/1
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]P]]Z]a)`¥[_Z^aaa[U_`¥aa[Waa[Y`a_`___¥W`
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+HWI-EAS443:3:64:1205:1238#0/1
a`T`^aX^aaaYUX[U_U_ZUa]¥ZW^`TT]^a]_]TW][
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a_`]]VPa]]`]__a`IYa]]^_X]`Z`]__^]]XZ_Z]_
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+HWI-EAS443:3:67:743:1023#0/1
a```bb___aa`Y`^aaaaaaaaaaaaaaaa_aa`_a`_```
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+HWI-EAS443:3:69:197:585#0/1
aaaa]``a`_a^aaa_`Z`a^_`_```_`]]``^_____^
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+HWI-EAS443:3:6:641:1035#0/1
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+HWI-EAS443:3:71:1052:1062#0/1
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+HWI-EAS443:3:72:110:1854#0/1
R```TW¥^a^TY^ZS_QXK¥a][[`Uaa]_a]VRS][```¥
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_Xa_bbaa_`a¥`aa`bbaa`b_¥a_aaaaa_a_aaS__
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+HWI-EAS443:3:40:471:1158#0/1
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+HWI-EAS443:3:3:1183:1454#0/1
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+HWI-EAS443:3:84:439:1216#0/1
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@HWI-EAS443:3:13:1034:413#0/1
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+HWI-EAS443:3:39:1723:199#0/1
aa_aa]a_a^baRa_]``]`a_]aZXaaYV[]`_]UUN
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+HWI-EAS443:3:51:1699:1545#0/1
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¥_S[J_`[``a`[TQI`V`_aYTW^JW_`J]¥b_]aZ]
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+HWI-EAS443:3:43:654:435#0/1
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+HWI-EAS443:3:4:538:1485#0/1
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+HWI-EAS443:3:54:1195:1017#0/1
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+HWI-EAS443:3:55:1289:740#0/1
aba`]b`aabbaaa``abaa¥__ba_aaa`aa¥S`]`^aa
@HWI-EAS443:3:56:1069:882#0/1
GTGTCCAGTAATAGTTCATTCTCCCTTCTTGATTCCTCAC
+HWI-EAS443:3:56:1069:882#0/1
aa`a^ab_a^aaa_a^abaaa`^^aa`aa`_aa^^a__]
@HWI-EAS443:3:56:155:266#0/1
CTAGTGTCCAGTAATAGTTCATTCTCCCTTCTTGATTCCT
+HWI-EAS443:3:56:155:266#0/1
VaZ`Ta_babbV`b__^a`Z_aaaaYV^_aa`aa_]¥_a`
@HWI-EAS443:3:57:75:1038#0/1
CTAGTGTCCAGTAATAGTTCATTCTCCCTTCTTGATTCCT
+HWI-EAS443:3:57:75:1038#0/1
abaaaaaabaa_ab`X`_a_aaaaaaaaaaaaa``aaa_`
@HWI-EAS443:3:58:1426:575#0/1
GTTTCATTCTCCCTTCTTGATTCCTCACTTTGGGTCTTATT
+HWI-EAS443:3:58:1426:575#0/1
a^a¥aaa`a]¥[aa_aaa```¥[`]_Za`aa`XX]`_`a_
@HWI-EAS443:3:61:450:1027#0/1
CTACTAGTGTCCAGTAATAGTTCATTCTCCCTTCTTGATT
+HWI-EAS443:3:61:450:1027#0/1
aaba_^ba`abbab[bb_bb_aaaaababaaa_aaa`a``

@HWI-EAS443:3:61:987:1421#0/1
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+HWI-EAS443:3:61:987:1421#0/1
abbbbabbbbbaababbbbabbbbababa_^a
@HWI-EAS443:3:62:1293:1170#0/1
AATAGTTCATTCTCCCTTCTTGATTCCTCACTTTGGGTCT
+HWI-EAS443:3:62:1293:1170#0/1
a]aS^Taa]_`aa_P_`a^]U_R]`][^a`Ya__WXaRY^
@HWI-EAS443:3:62:1775:117#0/1
CCCTTCTTGATTCCTCACTTTGGGTCTTATTGCTATTCC
+HWI-EAS443:3:62:1775:117#0/1
_abbbbbaabaaba_abbbbb__bbbabababab^`
@HWI-EAS443:3:63:1007:1276#0/1
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+HWI-EAS443:3:63:1007:1276#0/1
V¥^`H¥aZ_V_a`[^[Za`a^aaa`^a`_`¥TZ¥^¥a`
@HWI-EAS443:3:64:696:1454#0/1
GTCCAGTAATAGTTCATTCTCCCTTCTTGATTCCTCACTT
+HWI-EAS443:3:64:696:1454#0/1
]S`bbbU`aZ^`ab]¥`a`a_aa^aa¥`^^X_[^Zaa
@HWI-EAS443:3:64:878:1030#0/1
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+HWI-EAS443:3:64:878:1030#0/1
ab`aaa_abbaababa`_aaaaaaaaaaaaa`aaa`a
@HWI-EAS443:3:66:1284:1468#0/1
TAGTTCATTCTCCCTTCTTGATTCCTCACTTTGGGTCTTA
+HWI-EAS443:3:66:1284:1468#0/1
a`aaabbababab^aabaa`aaa`abaa`baaa`aVa`aa
@HWI-EAS443:3:67:1382:1283#0/1
CAATAAGACCCAAAGTGAGGAATCAAGAAGGGAGAATGAA
+HWI-EAS443:3:67:1382:1283#0/1
`bbb`abb`aaa`Xbbaaaaaa`¥]a__`_b^aaaaa
@HWI-EAS443:3:68:144:302#0/1
CTAGTGTCCAGTAATAGTTCATTCTCCCTTCTTGATTCCT
+HWI-EAS443:3:68:144:302#0/1
aaa`R]W_aa_X_a_YY[`[]]_^a]Y[^__`_^_[¥__
@HWI-EAS443:3:68:598:400#0/1
AGCAATAAGACCCAAAGTGAGGAATCAAGAAGGGAGAATG
+HWI-EAS443:3:68:598:400#0/1
]aaaa`aaaa^^^aaW`aa``]]`a^_a__a^`a
@HWI-EAS443:3:70:637:160#0/1
CTAGTGTCCAGTAATAGTTCATTCTCCCTTCTTGATTCCT
+HWI-EAS443:3:70:637:160#0/1
abb`Sb_aaa__aabaaZb`baaaaa__`aaaa`_a`__a
@HWI-EAS443:3:71:1718:1572#0/1
GTCCAGTAATAGTTCATTCTCCCTTCTTGATTCCTCACTT
+HWI-EAS443:3:71:1718:1572#0/1
`abaabababa`b`abbaa_aabaaabbaaaaaZa]aa
@HWI-EAS443:3:71:62:123#0/1
GTTCACTTCTCCCTTCTTGATTCCTCACTTTGGGTCTTATT

+HWI-EAS443:3:71:62:123#0/1
a`aabaaaa^`a_^`_]aa_a^`____`_aZZ^WX]__^V
@HWI-EAS443:3:73:311:182#0/1
CTAGTGTCCAGTAATAGTTCATTCTCCCTTCTTGATTCCT
+HWI-EAS443:3:73:311:182#0/1
abaaab`a`ab_a`a_`]a_aaa`a_^____a`^^^_^^B
@HWI-EAS443:3:75:1668:1849#0/1
CTAGTGTCCAGTAATAGTTCATTCTCCCTTCTTGATTCCT
+HWI-EAS443:3:75:1668:1849#0/1
abbbaaa```aababbbab`abbabaa[bbbbbbaba_ab
@HWI-EAS443:3:75:534:614#0/1
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+HWI-EAS443:3:75:534:614#0/1
abbba[aababbababaabb`bbabababa`aabaaaaa
@HWI-EAS443:3:79:141:1447#0/1
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+HWI-EAS443:3:79:141:1447#0/1
`aab`^[aaaaababaaaaaaa`¥a_aaa`aaaaa[UTV
@HWI-EAS443:3:80:636:159#0/1
GTAATAGTTCATTCTCCCTTCTTGATTCCTCACTTTGGGT
+HWI-EAS443:3:80:636:159#0/1
aabbbba_abbbb^a`aaa`abaaaa__a^`_aaaa^`X
@HWI-EAS443:3:81:542:619#0/1
GTCCAGTAATAGTTCATTCTCCCTTCTTGATTCCTCACTT
+HWI-EAS443:3:81:542:619#0/1
a`aaaa]aaa_a_`_aaaaa_`aa_aaa^`_`Z`a`^`a
@HWI-EAS443:3:83:219:1499#0/1
GTCCAGTAATAGTTCATTCTCCCTTCTTGATTCCTCACTT
+HWI-EAS443:3:83:219:1499#0/1
`]`bbb`ZSZ]YW]b`Y]ZXW`]_WY_YT]^^a]¥][`_]`
@HWI-EAS443:3:84:530:1427#0/1
CTTGATTCCTCACTTTGGGTCTTATTGCTATTTCCGGCTT
+HWI-EAS443:3:84:530:1427#0/1
abba`bbbbabaabba`aa]aaaa`aba`aaaaa]aaa
@HWI-EAS443:3:87:1138:608#0/1
GTAATAGTTCATTCTCCCTTCTTGATTCCTCACTTTGGGT
+HWI-EAS443:3:87:1138:608#0/1
a_a`babaa`aaaab__aab^abaab_^_a^`_a`a`_Z
@HWI-EAS443:3:88:875:332#0/1
AGCAATAAGACCCAAAGTGAGGAATCAAGAAGGGAGAATG
+HWI-EAS443:3:88:875:332#0/1
aa`aabaabaaaa`_a_aaaaa____```_a``_a^a`a
@HWI-EAS443:3:89:1011:28#0/1
CTAGTGTCCAGTAATAGTTCATTCTCCCTTCTTGATTCCT
+HWI-EAS443:3:89:1011:28#0/1
aaY[[NXa_¥_UX`b_WZ`[`b`]]]]ZY_aaa]¥aZSY
@HWI-EAS443:3:8:80:1818#0/1
GATTCCTCACTTTGGGTCTTATTGCTATTTCCGGCTTGAA
+HWI-EAS443:3:8:80:1818#0/1
]aaWaba¥aba`b¥TST_bbb_aa__a```_]_[X^_]_]a

@HWI-EAS443:3:97:801:557#0/1
CTAGTGTCCAGTAATAGTTCATTCTCCCTTCTTGATTCCT
+HWI-EAS443:3:97:801:557#0/1
`^T_Xa^Y[]abbaT¥¥]a`babb`a_]_Y_bbbaa`¥[^
@HWI-EAS443:3:98:1270:540#0/1
GTTTCATTCTCCCTTCTTGATTCCTCACTTTGGGTCTTATT
+HWI-EAS443:3:98:1270:540#0/1
``a``bbab]¥abbaaabaaa][a`a_aaba]a_Yaaaa`
@HWI-EAS443:3:98:574:1115#0/1
GCCGAAATAGCAATAAGACCCAAAGTGAGGAATCAAGAA
+HWI-EAS443:3:98:574:1115#0/1
aaaba`a_b`baaababa`_`aa`ZT[abaaaaaaa`
@HWI-EAS443:3:98:667:1170#0/1
CTAGTGTCCAGTAATAGTTCATTCTCCCTTCTTGATTCCT
+HWI-EAS443:3:98:667:1170#0/1
a`KaZ¥J[aba``Tabbbbb_b^Z`^¥VbbaZbZbbZQHa
@HWI-EAS443:3:51:1048:1200#0/1
TAGGCCATGAACCTGTCTTGGGAATATCTCAAACCTTTC
+HWI-EAS443:3:51:1048:1200#0/1
a]^baa_abZ`aaaa_aaba^[¥_a_a_``aa_]a`__
@HWI-EAS443:3:40:43:1074#0/1
GAAAGAAATGCTGGATCTGGTATTATCATTTTCAGATCCAC
+HWI-EAS443:3:40:43:1074#0/1
`^^]_V^_ZP`_]_0^X[[WYTLV^ZXyTXU^YWY]XHR_]`
@HWI-EAS443:3:45:286:318#0/1
TGCATTGCAATGGAAAGAAATGCTGGATCTGGTATCATC
+HWI-EAS443:3:45:286:318#0/1
aabaaaab`baabaaaaaaaaaWa_aaa``]¥_]aa^aa_
@HWI-EAS443:3:49:980:686#0/1
ACCGAGATATGCATTGCAATGGAAAGAAATGCTGGTTCT
+HWI-EAS443:3:49:980:686#0/1
a`ab_aaba`b`abaa`_a_a`a`^^`_`aa`^aa`^a^a
@HWI-EAS443:3:15:342:320#0/1
CTGACATGATAATACCAGATCCAGCATTTCTTTCCATTGC
+HWI-EAS443:3:15:342:320#0/1
aa_^L_a[_b`b`a^^aaabababbba]bbbb_bba`ab
@HWI-EAS443:3:19:1519:1342#0/1
TGTATCTGAACTGATAATACCAGATCCAGCATTTCTTTCC
+HWI-EAS443:3:19:1519:1342#0/1
Y`^^TT[_NWIS]T`[WQ]S[aa`SOS¥`XW]`WPZ¥^`[
@HWI-EAS443:3:22:967:842#0/1
AAAGAAATCCTGGATCTGGTATTATCATTTTCAGATACACC
+HWI-EAS443:3:22:967:842#0/1
a```^`a¥G¥a)`a`a``_¥aa__TX_a`````__`a¥_VP
@HWI-EAS443:3:46:1232:1714#0/1
GCATTTCTTTTCATTGCGAATGCATATCTCGGTACCACTA
+HWI-EAS443:3:46:1232:1714#0/1
a``aaa_aaa`¥aa`_aa`_`S^aa`¥__^^Za]0_X__
@HWI-EAS443:3:51:1207:1158#0/1
TAGTGGTACCGAGATATGCATCCGCAATGGAAAGAAATGC

+HWI-EAS443:3:51:1207:1158#0/1
aab¥aaT`a`^b__abaW`_]Yaa`_b`Z]a``a`__]`
@HWI-EAS443:3:5:825:1199#0/1
CTGAAATGATAATACCAGATCCAGCTTTTCTTCCATTGC
+HWI-EAS443:3:5:825:1199#0/1
a^b[ZHaa`_`aaT`Q]bY`IS_bYFXaa^a`ZNZaaZa]
@HWI-EAS443:3:69:1455:132#0/1
TGGAAATATAGTGGTACCGAGATATGCATTGCAATGGAA
+HWI-EAS443:3:69:1455:132#0/1
_Z_ZV0_I_aaT]¥__¥Qa[[_Y_W^Y_ZZ_X^ZZ^ZWX
@HWI-EAS443:3:72:907:1233#0/1
ACCAGATCCAGCATTTCTTCCATTCCGAATGCATATCTC
+HWI-EAS443:3:72:907:1233#0/1
aaZ[[Y]babV[P¥RN_a__]P[WS_FW^I_]ZOYY]_XR
@HWI-EAS443:3:96:1738:1528#0/1
AGCATTTCTCTCCATTGCGAATGCATATCTCGGTACCACT
+HWI-EAS443:3:96:1738:1528#0/1
aaa`^a]a^a__a___[`_]`_Y_Z^_V]X`Z`]^Z`
@HWI-EAS443:3:11:1440:1758#0/1
CATTTCTTCCATTGCGAATGCATATCTCNGTACCACTAG
+HWI-EAS443:3:11:1440:1758#0/1
¥`_b`bbb`abbbbba`abbaa`babaX]DY`bb_aWbbb
@HWI-EAS443:3:53:1174:1798#0/1
ATGATAATACCAGATCCAGCATTTCTTCCATTNCGAATG
+HWI-EAS443:3:53:1174:1798#0/1
ababaabbbb`]b_aaaa`_`ba`a`a__a`UDK]`_aa
@HWI-EAS443:3:56:753:1059#0/1
GGAAATCTAGTGGTACCGAGATATGCATTGNAATGGAAA
+HWI-EAS443:3:56:753:1059#0/1
aa¥R_a`a`^`]^R¥a[a]^a`¥`^^aa`a[DY`_`_`¥_
@HWI-EAS443:3:67:997:657#0/1
ACCGAGATATGCATTGCAATGGAAAGAAATGNTGGATCT
+HWI-EAS443:3:67:997:657#0/1
aaaaaaaa¥```aa`a`_`^`a``````_¥`aTDV`_`____
@HWI-EAS443:3:21:759:908#0/1
GTCCAGCATTTCTTCCATTGCGAATGCATATCTCGGTAC
+HWI-EAS443:3:21:759:908#0/1
aaaabaabaabaaaaa_aaaa`a`]`a_aa`_`^`_aT]^
@HWI-EAS443:3:40:406:788#0/1
TGTGGTACCGAGATATGCATTGCAATGGAAAGAAATGCT
+HWI-EAS443:3:40:406:788#0/1
`aWa]]aaaaaa`_aa]YY]aaa`_YYRU]aXJZUXU`_
@HWI-EAS443:3:93:857:1761#0/1
NTTCGCAATGGAAAGAAATGCTGGATCTGGTATTATCATT
+HWI-EAS443:3:93:857:1761#0/1
DMY[WU[ZXXYY[[[[[Y[P[[YYY[WW[ZZ[[[[[[[[Z[Y
@HWI-EAS443:3:100:397:710#0/1
GATAATACCAGATCCAGCATTTCTTCCATTGCGAATGCA
+HWI-EAS443:3:100:397:710#0/1
aa`aa`_a`_b`_^^aa`_`a`_a`_a`_^^aW__]^_V_

+HWI-EAS443:3:17:910:1464#0/1
VV^bab__`a_YaY^]`baa]^ [YYY^YY[^^`Sa
@HWI-EAS443:3:18:1109:1577#0/1
TGCATTGCAATGGAAAGAAATGCTGGATCTGGTATTATC
+HWI-EAS443:3:18:1109:1577#0/1
¥Y¥bXH¥¥^P_^Z]aZ_a]H[Ya^¥aaaSJaa0]a]^aY
@HWI-EAS443:3:18:437:1440#0/1
GGCTCTACTAGTGTCCAGTAATAGTTCATTCTCCCTTCTT
+HWI-EAS443:3:18:437:1440#0/1
^`U`¥_ZZa`T[¥aaaaZ`aZ``Iaaa_a[`a_a`^Zaa
@HWI-EAS443:3:19:1338:186#0/1
GTGTATCTGAAATGATAATACCAGATCCAGCATTCTTTC
+HWI-EAS443:3:19:1338:186#0/1
_aYNWV`¥_MFY`aaU^`^^PLZZTOYV`]XP[XY]YUZG
@HWI-EAS443:3:1:1411:1322#0/1
GAAAGAAATGCTGGATCTGGTATTATCATTTCAGATACAC
+HWI-EAS443:3:1:1411:1322#0/1
]XU^`]aaaaaaaa]aa_`b]Wa`a`aW_aaaZ]`_aBBB
@HWI-EAS443:3:20:1355:466#0/1
ATGGAAGAAATGCTGGATCTGGTATTATCATTTCAGATA
+HWI-EAS443:3:20:1355:466#0/1
aaaaaaaaaaaaa_`a`a`aaaaZ_aaaa__a``_``_``_`
@HWI-EAS443:3:20:903:1385#0/1
TGGAAATCTAGTGGTACCGAGATATGCATTGCAATGGAA
+HWI-EAS443:3:20:903:1385#0/1
U```_V[[YWOWML_X_ZSabV]aba]¥V_^_bb[Z`_¥
@HWI-EAS443:3:21:1068:634#0/1
ACCGAGATATGCATTGCAATGGAAAGAAATGCTGGATCT
+HWI-EAS443:3:21:1068:634#0/1
a^Y`^`^`_`_` [Z__ [OY`_V_^YFV`^^WZ^^ [S_^_^]_
@HWI-EAS443:3:21:722:350#0/1
GAGATATGCATTGCAATGGAAAGAAATGCTGGATCTGGT
+HWI-EAS443:3:21:722:350#0/1
aaaaaaaaaaaa^a__`aa``a``_`_`U`^`^`_`_`^`_`_`T
@HWI-EAS443:3:22:1366:1305#0/1
GTGTATCTGAAATGATAATACCAGATCCAGCATTCTTTC
+HWI-EAS443:3:22:1366:1305#0/1
a]`X`babba_`a_aaaaa`a`a`^a`a^Y__aa]a_`_
@HWI-EAS443:3:22:998:1537#0/1
GCATTTCTTTCCATTGCGAATGCATATCTCGGTACCACTA
+HWI-EAS443:3:22:998:1537#0/1
YLRXXFL]Y]¥Q]TZ^UJ]PPZ_]TTNUZ[X¥VTY]
@HWI-EAS443:3:23:1616:135#0/1
GTATCTGAAATGATAATACCAGATCCAGCATTCTTTCCA
+HWI-EAS443:3:23:1616:135#0/1
aaab_ab`]abaaaa`aa`_^`]^^`^`Z^`_^`[^`_`SX[
@HWI-EAS443:3:23:255:1601#0/1
ATTCGCAATGGAAAGAAATGCTGGATCTGGTATTATCATT
+HWI-EAS443:3:23:255:1601#0/1
aa`aaaaaaaa`aaa__aa` [a^_Ya____`_` [``^a____^]

@HWI-EAS443:3:23:328:120#0/1
CATTTCGCAATGGAAAGAAATGCTGGATCTGGTATTATCAT
+HWI-EAS443:3:23:328:120#0/1
_ababbabbabbbaaab`aaa`aaa_aa^`a``aaa`aaaa
@HWI-EAS443:3:24:675:866#0/1
GAAATCTAGTGGTACCGAGATATGCATTTCGCAATGGAAAG
+HWI-EAS443:3:24:675:866#0/1
abaaaa`a`^b]Ya_aaaa_]`^`a_a`a```aa_^`_`
@HWI-EAS443:3:24:747:929#0/1
ATCTGAAATGATAATACCAGATCCAGCATTTCTTTCCATT
+HWI-EAS443:3:24:747:929#0/1
aabba`]¥ab^a``a_aaa``aaaa[`abbaaaaa_aa]
@HWI-EAS443:3:25:1614:1554#0/1
CCGAGATATGCATTTCGCAATGGAAAGAAATGCTGGATCTG
+HWI-EAS443:3:25:1614:1554#0/1
Xbaabbbbbbabbba_bbbaba`babaabb`b_b[bbabb
@HWI-EAS443:3:27:881:813#0/1
TGCATTTCGCAATGGAAAGAAATGCTGGATCTGGTATTATC
+HWI-EAS443:3:27:881:813#0/1
Z^``a¥¥¥ZY`_`Y`¥_Y¥¥ZHV¥ZW^^`]a^Ya_Va[F
@HWI-EAS443:3:28:52:378#0/1
ACCGAGATATGCATTTCGCAATGGAAAGAAATGCTGGATCT
+HWI-EAS443:3:28:52:378#0/1
¥```a`¥aSZ[`a`] ^ZP`aYWQ[U_`XTF¥GXQ¥YYW
@HWI-EAS443:3:29:1088:1614#0/1
CAAGAAGGGAGAATGAACTATTACTGGACACTAGTAGAGC
+HWI-EAS443:3:29:1088:1614#0/1
aaba]¥aa`aa_aba``aa_a`aaaaa`a_aa`^aa``¥
@HWI-EAS443:3:29:1202:840#0/1
ACCGAGATATGCATTTCGCAATGGAAAGAAATGCTGGATCT
+HWI-EAS443:3:29:1202:840#0/1
aaababbb`aaabaaa_aaaa`a``¥a_a_]`__`a^[_
@HWI-EAS443:3:29:1306:934#0/1
GGAAAGAAATGCTGGATCTGGTATTATCATTTCAGATACA
+HWI-EAS443:3:29:1306:934#0/1
abaaaaaaaaUb^a`aa_`¥^Z_a`_a^Wa`_____`^a
@HWI-EAS443:3:29:838:1428#0/1
TGCATTTCGCAATGGAAAGAAATGCTGGATCTGGTATTATC
+HWI-EAS443:3:29:838:1428#0/1
¥`aaa`aba__]^Z[¥[`^a_¥0_[`_`_^`^0a]]`__
@HWI-EAS443:3:2:37:651#0/1
TGGAAATCTAGTGGTACCGAGATATGCATTTCGCAATGGAA
+HWI-EAS443:3:2:37:651#0/1
aab^IO_]`_b[b0H_a`aTa`__[a`Y_Y^`_a^_``^`
@HWI-EAS443:3:2:711:1914#0/1
ACCGAGATATGCATTTCGCAATGGAAAGAAATGCTGGATCT
+HWI-EAS443:3:2:711:1914#0/1
a_L]a^a_a^_¥a`^WV^_aZ]^aa_] ^_]YGSX]^ZWW
@HWI-EAS443:3:30:1082:663#0/1
CGAGATATGCATTTCGCAATGGAAAGAAATGCTGGATCTGG

+HWI-EAS443:3:30:1082:663#0/1
_abba^Y`aaaa`^aab^ab_PZ[^Ya`U^`V]_^¥__X
@HWI-EAS443:3:30:648:1504#0/1
AGCATTCTTTCCATTGCGAATGCATATCTCGGTACCACT
+HWI-EAS443:3:30:648:1504#0/1
aaaa_`a`_a`a^a_a_]__a`_`]_^]Z__Z_Z]
@HWI-EAS443:3:30:947:1273#0/1
CCGAGATATGCATTGCGAATGGAAAGAAATGCTGGATCTG
+HWI-EAS443:3:30:947:1273#0/1
aaa`]Yaa`Uaa`aaa^]a`a_Ya`U_WZU`Z]]_Y_Z_
@HWI-EAS443:3:31:1421:902#0/1
ACCGAGATATGCATTGCGAATGGAAAGAAATGCTGGATCT
+HWI-EAS443:3:31:1421:902#0/1
ab_``baaaa__aaa`¥```aaaa_a``aa`W^Z]]`T]_
@HWI-EAS443:3:31:616:808#0/1
GAGATATGCATTGCGAATGGAAAGAAATGCTGGATCTGGT
+HWI-EAS443:3:31:616:808#0/1
abb^`ababa]aa`ababa__a]^aa`_Rb^_`]``adW
@HWI-EAS443:3:32:268:1294#0/1
TGAAATGATAATACCAGATCCAGCATTCTTTCCATTGCG
+HWI-EAS443:3:32:268:1294#0/1
V`¥W¥`a``bba_bbb_ZXab^^baaaa```a]_`_WYa_
@HWI-EAS443:3:32:458:1324#0/1
ACCGAGATATGCATTGCGAATGGAAAGAAATGCTGGATCT
+HWI-EAS443:3:32:458:1324#0/1
aaaa^[Y`aa_aa`_`_a[Q^]^a^`[_a^¥XaX]TY[`Z
@HWI-EAS443:3:33:1766:1965#0/1
GGCTCTACTAGTGTCCAGTAATAGTTCATTCTCCCTTCTT
+HWI-EAS443:3:33:1766:1965#0/1
a^a`]aaaa_a_Y]^LZ_W`_^[VR`RZ_^XKDKW^]X^¥
@HWI-EAS443:3:33:363:264#0/1
GCATTTCTTTCCATTGCGAATGCATATCTCGGTACCACTA
+HWI-EAS443:3:33:363:264#0/1
aaaabaa`aaaaaaaaa__`aa```_```aa_Wa^``]^
@HWI-EAS443:3:34:1392:1557#0/1
CCGAGATATGCATTGCGAATGGAAAGAAATGCTGGATCTG
+HWI-EAS443:3:34:1392:1557#0/1
`b¥]`a¥¥a]Q^]W__M^V¥`_`a¥¥a_ZZMZZ_X]PLSP
@HWI-EAS443:3:34:1435:262#0/1
CTGAAATGATAATACCAGATCCAGCATTCTTTCCATTGC
+HWI-EAS443:3:34:1435:262#0/1
abbbbbbb`bbab_aabbaaabba`aab`aaa^Y`^`_Y
@HWI-EAS443:3:35:351:968#0/1
CTGAAATGATAATACCAGATCCAGCATTCTTTCCATTGC
+HWI-EAS443:3:35:351:968#0/1
aa`^Zaaaaaaaaa¥]U]aaa`__^`]`_`_a``_Y¥`
@HWI-EAS443:3:35:456:761#0/1
GTGGTACCGAGATATGCATTGCGAATGGAAAGAAATGCTG
+HWI-EAS443:3:35:456:761#0/1
]N]]S¥aaaa¥R_]¥]_``[^_`a^^¥S][Z¥¥T^WX][[]

@HWI-EAS443:3:36:1292:768#0/1
CCGAGATATGCATTGCAATGGAAAGAAATGCTGGATCTG
+HWI-EAS443:3:36:1292:768#0/1
aa_¥`b`a^aaa`_aaaaaa`a`a]a^__`¥aaa_a
@HWI-EAS443:3:36:584:1413#0/1
GATATGCATTGCAATGGAAAGAAATGCTGGATCTGGTAT
+HWI-EAS443:3:36:584:1413#0/1
_b_b^abbabbabbbbabb`bbba_aY^^a__aa_]a_
@HWI-EAS443:3:37:1776:431#0/1
ACCAGATCCAGCATTTCTTTCCATTGCGAATGCATATCTC
+HWI-EAS443:3:37:1776:431#0/1
aaPZ]Wa`a`^W¥abb_b^`^aa_ab¥`[E[^baa_aa`U
@HWI-EAS443:3:37:681:816#0/1
TGGAAATCTAGTGGTACCGAGATATGCATTGCAATGGAA
+HWI-EAS443:3:37:681:816#0/1
WQV`¥¥_bab¥Q]¥_bbaaa`b`a^`_]WT_aba_ba_¥^
@HWI-EAS443:3:37:845:45#0/1
CATTGCAATGGAAAGAAATGCTGGATCTGGTATTATCAT
+HWI-EAS443:3:37:845:45#0/1
aaaa_baabbaaba`T_a`_a]a¥^_^XY]Y`__a_a``
@HWI-EAS443:3:39:1029:263#0/1
ACCGAGATATGCATTGCAATGGAAAGAAATGCTGGATCT
+HWI-EAS443:3:39:1029:263#0/1
abbaZa`a_]_`^`a`^`a`¥[a]^¥T¥_X¥¥¥¥ZY
@HWI-EAS443:3:3:1365:1791#0/1
ATTCGCAATGGAAAGAAATGCTGGATCTGGTATTATCATT
+HWI-EAS443:3:3:1365:1791#0/1
`b`SZU[aa[`ab_Vaab¥PR^aVX[XbbM``_ba^JXaa
@HWI-EAS443:3:3:1522:1709#0/1
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+HWI-EAS443:3:3:1522:1709#0/1
_`Va`aYVbKb[_bbb¥bba_V``YWHabPY_aI^UHaa_
@HWI-EAS443:3:3:725:1308#0/1
ATTCGCAATGGAAAGAAATGCTGGATCTGGTATTATCATT
+HWI-EAS443:3:3:725:1308#0/1
a_a]baa_bb`aaa`¥]`[OVaa`__a]]T``[_aP`^]
@HWI-EAS443:3:42:1447:1314#0/1
GTGGTACCGAGATATGCATTGCAATGGAAAGAAATGCTG
+HWI-EAS443:3:42:1447:1314#0/1
a[`X]_`abab_aYa`]aa[P`_a``aa_XSa__aa]`_`
@HWI-EAS443:3:42:1614:1617#0/1
CAGATCCAGCATTTCTTTCCATTGCGAATGCATATCTCGG
+HWI-EAS443:3:42:1614:1617#0/1
abbbbbabbbbbbababbabbaabaabbaabbaaaaa`
@HWI-EAS443:3:42:927:1214#0/1
TGCATTGCAATGGAAAGAAATGCTGGATCTGGTATTATC
+HWI-EAS443:3:42:927:1214#0/1
aaabb```a`abaaabbaaaaa^a`__a`a`a`]__aaa_
@HWI-EAS443:3:43:1147:457#0/1
CAAGAAGGGAGAATGAAC TACTACTGGACACTAGTAGAGC

+HWI-EAS443:3:43:1147:457#0/1
a`__Ybbb^W_a^abaaaabbbba]]aa^``_aaaZba¥`Z
@HWI-EAS443:3:43:163:1234#0/1
CTGAAATGATAATACCAGATCCAGATTTCTTTCCATTGC
+HWI-EAS443:3:43:163:1234#0/1
a_YQ`^a[a`bba]a`ab`_a_aaaaa`abaaa`¥`[]_
@HWI-EAS443:3:43:541:1612#0/1
AGATATGCATTGCAATGGAAAGAAATGCTGGATCTGGTA
+HWI-EAS443:3:43:541:1612#0/1
`T`[b]ZY¥`_^_M_U¥`_U^_HZ`¥T`^`^]N¥^W_aYH[
@HWI-EAS443:3:43:934:375#0/1
GGTGTATCTGAAATGATAATACCAGATCCAGATTTCTTT
+HWI-EAS443:3:43:934:375#0/1
^b]b`ababb_aaabaaaaaaaa`b```_aa^`aa`_aa`
@HWI-EAS443:3:44:553:1635#0/1
ATAATACCAGATCCAGATTTCTTTCCATTGCGAATGCAT
+HWI-EAS443:3:44:553:1635#0/1
_aaaba```_____Xaa_aaY`a`a`a]_Q^_¥`W^_a```
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GGCTCTACTAGTGTCCAGTAATAGTTCATTCTCCCTTCTT
+HWI-EAS443:3:44:89:1360#0/1
aaa`a]aaa]a_a`a`_aaaaa[^Va_a_`^`Za^`_`
@HWI-EAS443:3:44:938:164#0/1
CAAGAAGGGAGAATGAACTATTACTGGACACTAGTAGAGC
+HWI-EAS443:3:44:938:164#0/1
`aaba``bb`b`_abaa_aaaaa^aaa`aa^a`a]ba_`W
@HWI-EAS443:3:45:444:261#0/1
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+HWI-EAS443:3:45:444:261#0/1
abbaabbabaaa`bbaa`VaaZ`0a_a`^`X^aaXa`aa`
@HWI-EAS443:3:46:1623:937#0/1
CCGAGATATGCATTGCAATGGAAAGAAATGCTGGATCTG
+HWI-EAS443:3:46:1623:937#0/1
aabbbaaaaaaaaa_baaaaaa`a`a`a_`^`^a_____^`
@HWI-EAS443:3:46:489:817#0/1
GTGGTACCGAGATATGCATTGCAATGGAAAGAAATGCTG
+HWI-EAS443:3:46:489:817#0/1
a_b¥Raba`baa`__a_a`a`aaa_``aa``a`_`_W_^_
@HWI-EAS443:3:46:961:501#0/1
CTGAAATCTAGTGGTACCGAGATATGCATTGCAATGGA
+HWI-EAS443:3:46:961:501#0/1
abbbbb`babb`abbabbbbbbbbbbb`bbbbbbbbbb
@HWI-EAS443:3:47:1562:601#0/1
CCGAGATATGCATTGCAATGGAAAGAAATGCTGGATCTG
+HWI-EAS443:3:47:1562:601#0/1
abbbbbbaba^ab`abaa_bba`aaaaaa^_a`a__^aa
@HWI-EAS443:3:47:543:1660#0/1
GAAATCTAGTGGTACCGAGATATGCATTGCAATGGAAAG
+HWI-EAS443:3:47:543:1660#0/1
aaababba`Yb¥^aa[baa_aaaaW^[`Y[^abaa`a____

+HWI-EAS443:3:55:1163:1324#0/1
aX_aZba]`b¥]a`RbVa`Ya]aa_aaab]Q_`a¥`b_`a
@HWI-EAS443:3:55:373:142#0/1
ACCCCACAAAAACATATGCATCTGCATTCTGATAGAGACT
+HWI-EAS443:3:55:373:142#0/1
a``_`a]`_]__^_]`a`^_^`W^_`¥`^]`_`¥`]Y]
@HWI-EAS443:3:56:1286:1780#0/1
ACCAGATCCAGCATTTCTTTCCATTGCGAATGCATATCTC
+HWI-EAS443:3:56:1286:1780#0/1
YL¥U`aa^Tb]T_baa_baa_a¥^aa_a`^`_]`_`_`^
@HWI-EAS443:3:56:746:232#0/1
CTGAAATGATAATACCAGATCCAGCATTTCTTTCCATTGC
+HWI-EAS443:3:56:746:232#0/1
`_baabbb`bab`a`aaaaa_baa``ba¥a`a¥X`a_a¥
@HWI-EAS443:3:57:1634:881#0/1
GGGTCATCAAGATACAGCAAGAAGTTCAAGCCGGAAATAG
+HWI-EAS443:3:57:1634:881#0/1
aaaR_ba`K^bb^baa_Xbbb`abZ`Yb_bZ_`aaa`_`b
@HWI-EAS443:3:58:127:352#0/1
TATGCATTGCGAATGGAAAGAAATGCTGGATCTGGTATTA
+HWI-EAS443:3:58:127:352#0/1
a`aaaa`a`W_S^YP]^^^^[W]^ZX^GY]X_[VPX]^
@HWI-EAS443:3:58:1748:1753#0/1
CTGGAAATCTAGTGGTACCGAGATATGCATTGCGAATGGA
+HWI-EAS443:3:58:1748:1753#0/1
ZMXaabbbbaa`¥Ya]]`_]_a`aaa_a__aaaaaa]_`^Ya
@HWI-EAS443:3:58:541:1189#0/1
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+HWI-EAS443:3:58:541:1189#0/1
_YUaa¥a_aaaaaaa^a^aa__`a`a`a`_`_`a____]W__
@HWI-EAS443:3:59:905:1867#0/1
ACCGAGATATGCATTGCGAATGGAAAGAAATGCTGGATCT
+HWI-EAS443:3:59:905:1867#0/1
]a]a_^_aaa^aa`_]`_aaaaaaaaaaaa_0`WZGUSPG
@HWI-EAS443:3:5:151:153#0/1
CATTGCGAATGGAAAGAAATGCTGGATCTGGTATTATCAT
+HWI-EAS443:3:5:151:153#0/1
abb_`abXbbbbabbaaa`a¥aaaa^a_a`Xa]Y_a^a^
@HWI-EAS443:3:5:232:816#0/1
GGTGTATCTGAAATGATAATACCAGATCCAGCATTTCTTT
+HWI-EAS443:3:5:232:816#0/1
a_I^L^`aaa_a]a^Y^aZYaY[]][XOG]aaWR__`__a`
@HWI-EAS443:3:60:1427:444#0/1
GTGGTACCGAGATATGCATTGCGAATGGAAAGAAATGCTG
+HWI-EAS443:3:60:1427:444#0/1
aVaaXaa¥^]aaa^aa[aa_`a_```ba^a_`__`^WU]]
@HWI-EAS443:3:60:450:756#0/1
TGCATTGCGAATGGAAAGAAATGCTGGATCTGGTATTATC
+HWI-EAS443:3:60:450:756#0/1
`b`]^_ab_aaaa`_a]¥¥`_Z^[X[`_`¥[_aZ^_]]

@HWI-EAS443:3:61:1420:1425#0/1
TGCATTGCAATGGAAAGAAATGCTGGATCTGGTATTATC
+HWI-EAS443:3:61:1420:1425#0/1
aaaaaaaa`aaaa_aaaaaaa]a`a`aa__`_Z^a]_]W
@HWI-EAS443:3:61:1679:2015#0/1
ATCTGAAATGATAATACCAGATCCAGCATTTCTTTCCATT
+HWI-EAS443:3:61:1679:2015#0/1
ab_a`abaaaaaaaaaaaaababbaaaa`_a`aWN]^V
@HWI-EAS443:3:61:303:650#0/1
AAAGAAATGCTGGATCTGGTATTATCATTTTCAGATACACC
+HWI-EAS443:3:61:303:650#0/1
abaa`_[a]a`a^a`a_aa]a^^Y^aa___`_]^]_Y^Y[
@HWI-EAS443:3:61:409:1850#0/1
AAGAAGGGAGAATGAATGACTATTACTGGACACTAGTAGAGCC
+HWI-EAS443:3:61:409:1850#0/1
abaaabaaaaaaaaaaaaaaaaabaa_aaaaaa¥Za^_^X¥
@HWI-EAS443:3:61:882:114#0/1
CGAGATATGCATTGCAATGGAAAGAAATGCTGGATCTGG
+HWI-EAS443:3:61:882:114#0/1
_babba¥`b`bb`abb^abb¥`^b`b^``aaaa`aT^_a
@HWI-EAS443:3:63:1057:1123#0/1
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+HWI-EAS443:3:63:1057:1123#0/1
aU¥`_b_aa`[`a`¥_ab_¥]a`Z`^W`[^_P¥¥WMS]a`
@HWI-EAS443:3:63:41:1433#0/1
ATCTGAAATGATAATACCAGATCCAGCATTTCTTTCCATT
+HWI-EAS443:3:63:41:1433#0/1
R]aZ`[Y^a`¥`ba[J_b``^a`bb_[V¥a`¥a^aaX_¥T
@HWI-EAS443:3:63:867:1230#0/1
GTGTATCTGAAATGATAATACCAGATCCAGCATTTCTTTC
+HWI-EAS443:3:63:867:1230#0/1
aabaabab^`abbaaba_a`abaaaa_ba_aaaa_aa`a
@HWI-EAS443:3:64:1618:1834#0/1
ACCGAGATATGCATTGCAATGGAAAGAAATGCTGGATCT
+HWI-EAS443:3:64:1618:1834#0/1
aa`a``aaaa`^a^Yaa_Za_a`_____¥_X__[X__W]
@HWI-EAS443:3:64:843:1784#0/1
CCAGCATTTCTTTCCATTGCGAATGCATATCTCGGTACCA
+HWI-EAS443:3:64:843:1784#0/1
ab_TZ`bba]^babaaaa_W]^aa`_^aaaa_b`a]bZ]a
@HWI-EAS443:3:64:864:1065#0/1
GAAAGAAATGCTGGATCTGGTATTATCATTTTCAGATACAC
+HWI-EAS443:3:64:864:1065#0/1
^¥`bbb^Ta¥b^`ab]aa``X^`a_aaaabaaa``])`_aa
@HWI-EAS443:3:65:1214:2045#0/1
AGTGGTACCGAGATATGCATTGCAATGGAAAGAAATGCT
+HWI-EAS443:3:65:1214:2045#0/1
aa]`aXaa`aaa___`a`a`__`W]a`a]a`a_`_`_W]]
@HWI-EAS443:3:65:12:1708#0/1
ACCGAGATATGCATTGCAATGGAAAGAAATGCTGGATCT

+HWI-EAS443:3:65:12:1708#0/1
`aa^¥V¥^` []]a][V_¥U[[PVZ[U[IMRTWNWUZZ_^
@HWI-EAS443:3:65:326:2000#0/1
CTGAAATGATAATACCAGATCCAGCATTTCTTTCCATTGC
+HWI-EAS443:3:65:326:2000#0/1
aY_ZXZ]¥_`a^`ZY_]YZVZ`^LWRR[S_[FS¥_YYLU[
@HWI-EAS443:3:65:815:292#0/1
CCGAGATATGCATTGCAATGGAAAGAAATGCTGGATCTG
+HWI-EAS443:3:65:815:292#0/1
abbbbaabbaabbbabababbaabbaabaab`bb_baa^aa`b
@HWI-EAS443:3:66:1158:1955#0/1
GGTGTATCTGAAATGATAATACCAGATCCAGCATTTCTTT
+HWI-EAS443:3:66:1158:1955#0/1
Y`¥¥SQZ_L[[¥``ZSaa^b¥VbbXa_a¥Xb`Z_a¥VVa¥
@HWI-EAS443:3:67:1296:825#0/1
TGAAATGATAATACCAGATCCAGCATTTCTTTCCATTGCG
+HWI-EAS443:3:67:1296:825#0/1
`b`Z`¥b]a^][VTY`aa`a`aa¥^]a`aaa]`V_^_Z_
@HWI-EAS443:3:67:58:1471#0/1
GGCTCTACTAGTGTCCAGTAATAGTTCATTCTCCCTTCTT
+HWI-EAS443:3:67:58:1471#0/1
[abbb`bba]¥aa_bbb]¥T`^`¥_baaaaaa`[``_`
@HWI-EAS443:3:68:1509:1591#0/1
TGAAATCTAGTGGTACCGAGATATGCATTGCAATGGAA
+HWI-EAS443:3:68:1509:1591#0/1
a`]`aaaaa`^a`Vaa__`a^`___`__`_¥_^`_]`_
@HWI-EAS443:3:68:241:1294#0/1
TGAAATCTAGTGGTACCGAGATATGCATTGCAATGGAA
+HWI-EAS443:3:68:241:1294#0/1
a¥`^b`aa^`[[Z`]aab_`a¥¥__a_aa^`aa_`a`_`X
@HWI-EAS443:3:68:300:1477#0/1
CTGAAATGATAATACCAGATCCAGCATTTCTTTCCATTGC
+HWI-EAS443:3:68:300:1477#0/1
aaaaaaaaaaaaaaaaabaXY[``b[a``__`__`__][`
@HWI-EAS443:3:6:1133:1588#0/1
ACCGAGATATGCATTGCAATGGAAAGAAATGCTGGATCT
+HWI-EAS443:3:6:1133:1588#0/1
¥bbabbbbabbbX_¥aaa`bbabbaabaaa`aaaa`a_a
@HWI-EAS443:3:6:525:1121#0/1
CTCTACTAGTGTCCAGTAATAGTTCATTCTCCCTTCTTGA
+HWI-EAS443:3:6:525:1121#0/1
aaabbb`bbaaaba`babbbbaa`aaaaaba_`aa`aa`a
@HWI-EAS443:3:70:1336:1478#0/1
ATTCGCAATGGAAAGAAATGCTGGATCTGGTATTATCATT
+HWI-EAS443:3:70:1336:1478#0/1
aa```baaaaaa```[`Xa``_a`_a`_]`a````____
@HWI-EAS443:3:71:1360:573#0/1
GTGGTACCGAGATATGCATTGCAATGGAAAGAAATGCTG
+HWI-EAS443:3:71:1360:573#0/1
][bb_babbab`a^¥a]_^¥aaa[I^Va`a^LZaa__`[^

@HWI-EAS443:3:72:1133:1409#0/1
GGCTCTACTAGTGTCCAGTAATAGTTCATTCTCCCTTCTT
+HWI-EAS443:3:72:1133:1409#0/1
`abba`a_[^`ZZ`aUaXN]a_a^a^¥aaa_a]``a]_
@HWI-EAS443:3:72:242:1454#0/1
TGCATTGCAATGGAAAGAAATGCTGGATCTGGTATTATC
+HWI-EAS443:3:72:242:1454#0/1
abbbbbbbbabbbababab__b_aaYba`_aaba`]aaaaaa
@HWI-EAS443:3:72:243:1413#0/1
GAGATATGCATTGCAATGGAAAGAAATGCTGGATCTGGT
+HWI-EAS443:3:72:243:1413#0/1
a_¥QZba[ba`^aYb[_Ya_¥I[a`b_`[[Z¥][WXMM
@HWI-EAS443:3:72:750:1939#0/1
GTGTATCTGAAATGATAATACCAGATCCAGCATTTCTTTC
+HWI-EAS443:3:72:750:1939#0/1
]_aabbb`aabbaaab`abbb`]_aababaaa]aa``_
@HWI-EAS443:3:73:120:139#0/1
GGTGTATCTGAAATGATAATACCAGATCCAGCATTTCTTT
+HWI-EAS443:3:73:120:139#0/1
ab]b``a]G)`aaaaaaaa[aaaa```_a__`_^a`^_
@HWI-EAS443:3:74:1786:1409#0/1
CATTGCAATGGAAAGAAATGCTGGATCTGGTATTATCAT
+HWI-EAS443:3:74:1786:1409#0/1
^HRZU]XZ^a__a`_ba^X[^Z]^)^`^¥]_V`Y_]_ZS
@HWI-EAS443:3:74:216:350#0/1
CTCTACTAGTGTCCAGTAATAGTTCATTCTCCCTTCTTGA
+HWI-EAS443:3:74:216:350#0/1
abbabbbbabbbbbbabaa`a_baabaaaaa_aaaaaaa
@HWI-EAS443:3:74:430:1630#0/1
ACCGAGATATGCATTGCAATGGAAAGAAATGCTGGATCT
+HWI-EAS443:3:74:430:1630#0/1
`aaa__a`^`aa`aaaa_a_^_^_a`a_V`]^Z_^_Y
@HWI-EAS443:3:75:1265:1417#0/1
ATGCATTGCAATGGAAAGAAATGCTGGATCTGGTATTAT
+HWI-EAS443:3:75:1265:1417#0/1
`SL_ba_]babbbXaabb^ab`^Y^_aba^`aabV`a`ba
@HWI-EAS443:3:76:1232:297#0/1
ATCTGAAATGATAATACCAGATCCAGCATTTCTTTCCATT
+HWI-EAS443:3:76:1232:297#0/1
`b`b`_aabbaaaaaaaaab``__aa_^_aa_aa`YW`^_
@HWI-EAS443:3:76:1693:957#0/1
GGCTCTACTAGTGTCCAGTAATAGTTCATTCTCCCTTCTT
+HWI-EAS443:3:76:1693:957#0/1
a`aaY_]T`ZWY[¥UX[_]^a][ZU^X]W_X^PUZ_^V[`
@HWI-EAS443:3:76:330:1511#0/1
ACCAGATCCAGCATTTCTTTCCATTGCGAATGCATATCTC
+HWI-EAS443:3:76:330:1511#0/1
abab__`abb^a]aaaa`abaa____a``_¥_aaa^^_
@HWI-EAS443:3:77:1323:192#0/1
TATGCATTGCAATGGAAAGAAATGCTGGATCTGGTATTA

+HWI-EAS443:3:77:1323:192#0/1
a`ab`abaaba`aaa`a`_`a^]``_`Y_a_]_a__
@HWI-EAS443:3:77:374:64#0/1
CGAGATATGCATTGCAATGGAAAGAAATGCTGGATCTGG
+HWI-EAS443:3:77:374:64#0/1
abbbb`bbbbabbbbbabbb`ab`bba`ab_aa`ab]
@HWI-EAS443:3:77:742:873#0/1
GATATGCATTGCAATGGAAAGAAATGCTGGATCTGGTAT
+HWI-EAS443:3:77:742:873#0/1
aaaaaaaa`baaaabbaaa^_a^a_Xa`a_aaa_`aT_a
@HWI-EAS443:3:77:99:1374#0/1
TGAAATCTAGTGGTACCGAGATATGCATTGCAATGGAA
+HWI-EAS443:3:77:99:1374#0/1
ab`[¥aabaaa^aa_bba`aaNa`aaaa`a`abaaa^aa
@HWI-EAS443:3:79:211:849#0/1
GGAAATCTAGTGGTACCGAGATATGCATTGCAATGGAAA
+HWI-EAS443:3:79:211:849#0/1
ab___aaaa]b`_abaa_aa`aaaa`__aaY¥`a_X_W
@HWI-EAS443:3:79:892:1608#0/1
GTGTATCTGAAATGATAATACCAGATCCAGCATTTCTTTC
+HWI-EAS443:3:79:892:1608#0/1
aaa`_aaaa`aa`aaaaaaaa`a`_a`baa`a`a_a_aa
@HWI-EAS443:3:7:1330:1144#0/1
TATGCATTGCAATGGAAAGAAATGCTGGATCTGGTATTA
+HWI-EAS443:3:7:1330:1144#0/1
aaaaa[_a_bY_aaab_a_a_____]¥^_]``W^`^[^`^_
@HWI-EAS443:3:7:436:1193#0/1
GAGATATGCATTGCAATGGAAAGAAATGCTGGATCTGGT
+HWI-EAS443:3:7:436:1193#0/1
a`a]] [OYXWV[]^`__a]Y[_a`X¥XYMR[_ZSL¥_BB
@HWI-EAS443:3:80:1132:470#0/1
CAGATCCAGCATTTCTTTCCATTGCGAATGCATATCTCGG
+HWI-EAS443:3:80:1132:470#0/1
abaababbbaabbb`bbbaabaab`_aaaa`bbab_aaaa
@HWI-EAS443:3:80:597:1620#0/1
TGAAATGATAATACCAGATCCAGCATTTCTTTCCATTGCG
+HWI-EAS443:3:80:597:1620#0/1
ab_¥_bababbbbaabaaa`a]^`abababa]^aaa^a
@HWI-EAS443:3:80:66:1960#0/1
TAGTGGTACCGAGATATGCATTGCAATGGAAAGAAATGC
+HWI-EAS443:3:80:66:1960#0/1
aba]]a`abab`baba`bba`baba[_a_aba`aaa`Za
@HWI-EAS443:3:81:1007:800#0/1
CCGAGATATGCATTGCAATGGAAAGAAATGCTGGATCTG
+HWI-EAS443:3:81:1007:800#0/1
aaaaaababbaab`baaaabbaaaaaaaaaa^a``aa`a
@HWI-EAS443:3:81:1084:1597#0/1
TGAAATCTAGTGGTACCGAGATATGCATTGCAATGGAA
+HWI-EAS443:3:81:1084:1597#0/1
aa]aa`a`a`_Yaa¥aa`a_aa`__a_aa`Z[_a`Z`_

@HWI-EAS443:3:93:1377:553#0/1
GTATCTGAAATGATAATACCAGATCCAGCATTCTTTCCA
+HWI-EAS443:3:93:1377:553#0/1
R`aZV`SOYYW^`Za¥^I¥^W¥WUa`V^Z^[VUUUO`
@HWI-EAS443:3:93:554:1495#0/1
TCGCAATGAAAGAAATGCTGGATCTGGTATTATCATTTTC
+HWI-EAS443:3:93:554:1495#0/1
aaaaabaa`baa¥ba_a_`a`a_aaa[````aa`aaaa_
@HWI-EAS443:3:95:1181:192#0/1
GTGTATCTGAAATGATAATACCAGATCCAGCATTCTTTTC
+HWI-EAS443:3:95:1181:192#0/1
a^b^bbabaaabbbbbaaba^^baaa_`ba¥`aabZaaa_
@HWI-EAS443:3:96:283:292#0/1
GAAAGAAATGCTGGATCTGGTATTATCATTTTCAGATACAC
+HWI-EAS443:3:96:283:292#0/1
a^`YVRTU]PSXPQNP[N[SPUZYVL[YU_^YJVZ^YUHRB
@HWI-EAS443:3:96:669:618#0/1
CTGAAATGATAATACCAGATCCAGCATTCTTTCCATTGC
+HWI-EAS443:3:96:669:618#0/1
[``_baa^`abb`ba_`babaaa_``_a`aab`_Taa^aa
@HWI-EAS443:3:97:57:1893#0/1
CTAGTGGTACCGAGATATGCATTTCGCAATGAAAGAAATG
+HWI-EAS443:3:97:57:1893#0/1
abb_^baaab^abaaaaa_abaaaaaabaaa`aa`aa`_^
@HWI-EAS443:3:98:1321:124#0/1
GGTACCGAGATATGCATTTCGCAATGAAAGAAATGCTGGA
+HWI-EAS443:3:98:1321:124#0/1
a¥0a_Wa^a_`aa`U¥aa]_W[_^^^_]^^`XRX`]
@HWI-EAS443:3:9:1086:1739#0/1
CATTTCTTTCCATTGCGAATGCATATCTCGGTACCACTAG
+HWI-EAS443:3:9:1086:1739#0/1
aabba^)]bb_a_ab`a`abb^`aaa¥aXa`^¥¥aa_`b^
@HWI-EAS443:3:9:1293:1370#0/1
GGAAATCTAGTGGTACCGAGATATGCATTTCGCAATGGAAA
+HWI-EAS443:3:9:1293:1370#0/1
ababbaabaa_bbWba`b_baaabb_bba_a_aaaa_`aa
@HWI-EAS443:3:9:1376:1034#0/1
ACCAGATCCAGCATTCTTTCCATTGCGAATGCATATCTC
+HWI-EAS443:3:9:1376:1034#0/1
]XUW^Z_¥``XX¥_^Y]``ZVY``_]_`Y[Y[Z^^PYU
@HWI-EAS443:3:9:289:200#0/1
TGGAAATCTAGTGGTACCGAGATATGCATTTCGCAATGGAA
+HWI-EAS443:3:9:289:200#0/1
abaaaaaaba]ba^aaaaa````aa`a`__a``[_````_
@HWI-EAS443:3:9:74:999#0/1
AGCATTTCTTTCCATTGCGAATGCATATCTCGGTACCACT
+HWI-EAS443:3:9:74:999#0/1
a_`_]¥`aY[Wa^]XT]¥_[HY_ZPZ]^XPYSYWZZY]ZZ
@HWI-EAS443:3:2:1661:1252#0/1
TCGGTCTGTTGAATTGTTTCGCATGATAACCTATACNTAAT

+HWI-EAS443:3:2:1661:1252#0/1
a_bb`]^_`a`^]aa_^aQ]____`[¥Z[_]____RDR]_]`
@HWI-EAS443:3:23:942:968#0/1
CATTGCAACCGCATATGCAGACACATTATGTATAGGTTA
+HWI-EAS443:3:23:942:968#0/1
¥Yaaaabab`¥`bbababaaabbbbbbbbbb^bbbbbabbb
@HWI-EAS443:3:98:1006:654#0/1
TTTGCAACCGCAAATGCAGACACATTATGTATAGGTTGCG
+HWI-EAS443:3:98:1006:654#0/1
abaa^^a_¥a¥aaaaaab`aa]aaaaaa_aa_a`^a`Za
@HWI-EAS443:3:25:834:1030#0/1
ATACTAGTAGTTCTGCTATATACATTTNCAACCGCAAATG
+HWI-EAS443:3:25:834:1030#0/1
`aaaabb_ba_ab`aaaa`aaa`aaa[DZaa]_`Y`^`^`_
@HWI-EAS443:3:15:1428:155#0/1
CGTCTGTTGAATTGTTTCGCATGATAACCTATACATAATGT
+HWI-EAS443:3:15:1428:155#0/1
a`Z`b`_b`[`aaV]`Z¥¥_]SZ``aY^a_a`Y`a`__IX
@HWI-EAS443:3:61:848:822#0/1
CGGCAATACTAGTAGTTCTGCTATATACATTTGCAACCGC
+HWI-EAS443:3:61:848:822#0/1
ababbbbbabab`abbabbbbaa``Y_abb`a_W]aaX[^U
@HWI-EAS443:3:62:84:666#0/1
CGTTTCGCATGATAACCTATACATAATGTGTCTGCATTTGC
+HWI-EAS443:3:62:84:666#0/1
abaabbbbaab_```ba_Z`aaaaR_a`XaXa`a¥T`]_¥`
@HWI-EAS443:3:73:406:673#0/1
GGTTTCGCATGATAACCTATACATAATGTGTCTGCATTTGC
+HWI-EAS443:3:73:406:673#0/1
]^abababbbbaababbbab]babaaab_`aa`a_a_V]
@HWI-EAS443:3:12:917:358#0/1
GAAGGCAATACTAGTAGTTCTGCTATATACATTTGCAACC
+HWI-EAS443:3:12:917:358#0/1
aaaa_baaaa`aaaXaa_a`aa¥aaa_aa_a`_`a^`aXU
@HWI-EAS443:3:13:1720:676#0/1
CTGCTATATACATTTGCAACCGCAAATGCAGACACATTAT
+HWI-EAS443:3:13:1720:676#0/1
abbabbbbbbbbbbba`bb`[babbaba_`b_¥a^`abaa
@HWI-EAS443:3:15:1181:43#0/1
GTTGAATTGTTTCGCATGATAACCTATACATAATGTGTCTG
+HWI-EAS443:3:15:1181:43#0/1
a_aaX^`aa_a_a^a`a`__^X__`_]__[-`[-]Y]^
@HWI-EAS443:3:15:1375:225#0/1
GCAACCGCAAATGCAGACACATTATGTATAGGTTATCATG
+HWI-EAS443:3:15:1375:225#0/1
aabbbbbbbbabababbbbaabbbabbababbb_ba^[`_Y
@HWI-EAS443:3:15:1751:1304#0/1
CGCATGATAACCTATACATAATGTGTCTGCATTTGCGGTT
+HWI-EAS443:3:15:1751:1304#0/1
¥``Z^^¥X_`¥JT`_¥^^`^`a__b]H_Xa_W¥U_Y¥_HY

@HWI-EAS443:3:21:1394:761#0/1
TGTCTGTTGAATTGTTTCGCATGATAACCTATACATAATGT
+HWI-EAS443:3:21:1394:761#0/1
a_U^a`¥^[ZYY` [[]¥_S]]aZ[^_ZV^U]^YY_T]TNR
@HWI-EAS443:3:21:708:1312#0/1
GCGGTTGCAAATGTATATAGCAGAACTACTAGTATTGCCT
+HWI-EAS443:3:21:708:1312#0/1
aa¥¥Ua¥VOZ_[US`]YR[Y_WVPU[YZ_XKDS¥_ZW][
@HWI-EAS443:3:26:892:75#0/1
GTTCTGCTATATACATTTGCAACCGCAAATGCAGACACAT
+HWI-EAS443:3:26:892:75#0/1
`Q_¥_¥_`__a^UU__a`V`]PP`X]]]X^Y[^[Y][ZT
@HWI-EAS443:3:27:1524:391#0/1
CGCATGATAACCTATACATAATGTGTCTGCATTTGCGGTT
+HWI-EAS443:3:27:1524:391#0/1
ab^b[^ba^`^a_XU]a¥aaa¥aZ_a[QZ¥¥a[EX^GW
@HWI-EAS443:3:27:629:182#0/1
CGCAAATGCAGACACATTATGTATAGGTTATCATGCGAAC
+HWI-EAS443:3:27:629:182#0/1
aba`bbb`bbbababbaaab`bbbab^adW_`[__`aaZ
@HWI-EAS443:3:27:970:357#0/1
TGTTTCGCATGATAACCTATACATAATGTGTCTGCATTTGC
+HWI-EAS443:3:27:970:357#0/1
ab`babaaab``a[¥^aaaaaaaaabYa__`a_____a]
@HWI-EAS443:3:29:1317:1446#0/1
GCATGATAACCTATACATAATGTGTCTGCATTTGCGGTTG
+HWI-EAS443:3:29:1317:1446#0/1
aaaaaaaaabaaaaaaaaaaaaa_a_`aa^_a_`_``W^¥
@HWI-EAS443:3:33:210:423#0/1
TTCGCATGATAACCTATACATAATGTGTCTGCATTTGCGG
+HWI-EAS443:3:33:210:423#0/1
^Waaa`]aaaa^`aaa`_a_]`[]`Y`^`¥X[[¥VVZB
@HWI-EAS443:3:33:712:523#0/1
GTAGTTCTGCTATATACATTTGCAACCGCAAATGCAGACA
+HWI-EAS443:3:33:712:523#0/1
`Y^a`bb¥`bb`bbbb``ba`^^b¥aaaaa^a^aaaa``a
@HWI-EAS443:3:34:1279:324#0/1
ATTTGCAACCGCAAATGCAGACACATTATGTATAGGTTAT
+HWI-EAS443:3:34:1279:324#0/1
`a_a__Y_`]^a^^]`ba^`]a_aa``aa[]]][_BBBB
@HWI-EAS443:3:36:1601:1321#0/1
TTCGCATGATAACCTATACATAATGTGTCTGCATTTGCGG
+HWI-EAS443:3:36:1601:1321#0/1
a^^VP`abT[P[QHTSVS`]`aQWXIaW][[GZSYBBBBB
@HWI-EAS443:3:36:512:448#0/1
GCATGATAACCTATACATAATGTGTCTGCATTTGCGGTTG
+HWI-EAS443:3:36:512:448#0/1
Za`ab^TXZ¥`]U[YY^a^LR^b][b¥aV¥^a`XXZOLOS
@HWI-EAS443:3:37:1416:1779#0/1
ATGATAACCTATACATAATGTGTCTGCATTTGCGGTTGCA

+HWI-EAS443:3:37:1416:1779#0/1
_`^]aabaabbaaaba`Xa_aaaYaaTa_a^[UG[S
@HWI-EAS443:3:38:941:1682#0/1
GTTGAATTGTTTCGCATGATAACCTATACATAATGTGTCTG
+HWI-EAS443:3:38:941:1682#0/1
a^[PRPTYPM[SMVaYLWYVS]_Z]TRXTVPXXV[[[[VW
@HWI-EAS443:3:39:270:557#0/1
CGCAAATGCAGACACATTATGTATAGGTTATCATGCGAAC
+HWI-EAS443:3:39:270:557#0/1
abbb_bbbba`baabababaababaa_aaaTa_XJ¥aaI
@HWI-EAS443:3:43:323:127#0/1
ATTGTTTCGCATGATAACCTATACATAATGTGTCTGCATTT
+HWI-EAS443:3:43:323:127#0/1
a^`VH¥`ba_W_ababa`a`b`a`a_aa^a`_aa[S[^]
@HWI-EAS443:3:44:429:332#0/1
TACATAATGTGTCTGCATTTGCGGTTGCAAATGTATATAG
+HWI-EAS443:3:44:429:332#0/1
a^a^aY`ab^a^aaa^`_`a^a`Z]]XTUXMVGTYZUVI
@HWI-EAS443:3:47:1617:1214#0/1
TGTCTGTTGAATTGTTTCGCATGATAACCTATACATAATGT
+HWI-EAS443:3:47:1617:1214#0/1
abaab^^ba_aaa]_a`a]`_a`_`¥[_^a^ZZ`_^`__
@HWI-EAS443:3:4:199:483#0/1
CATTATGTATAGGTTATCATGCGAACAAATCAACAGACAC
+HWI-EAS443:3:4:199:483#0/1
abbbbbbbabaabb^aa`aaaa`aaa]aaaa__`aa_]aW
@HWI-EAS443:3:52:1097:1327#0/1
TATACATTTGCAACCGCAAATGCAGACACATTATGTATAG
+HWI-EAS443:3:52:1097:1327#0/1
aa```abaa`][aa_a]aaaa`_a`^¥Zaaaaa_a`_a
@HWI-EAS443:3:55:1162:64#0/1
GTTGAATTGTTTCGCATGATAACCTATACATAATGTGTCTG
+HWI-EAS443:3:55:1162:64#0/1
a]a`X]a`a^_]_[^]_[^][Y`^^¥XX^YZ^_[XZ^_
@HWI-EAS443:3:55:395:433#0/1
CTGTTGAATTGTTTCGCATGATAACCTATACATAATGTGTC
+HWI-EAS443:3:55:395:433#0/1
abbaaa`^abb]bab_abbbaba^`aaaa`aaaab¥a_a
@HWI-EAS443:3:56:1361:702#0/1
CTGTTGAATTGTTTCGCATGATAACCTATACATAATGTGTC
+HWI-EAS443:3:56:1361:702#0/1
a_Z`^`b`abba][`bb_a`_[Paaa`_^aa]`_Z]^
@HWI-EAS443:3:56:533:1199#0/1
GCATGATAACCTATACATAATGTGTCTGCATTTGCGGTTG
+HWI-EAS443:3:56:533:1199#0/1
_a_ababba`[_abb__ba`bb`a_aaa`_abb`^`_S¥]
@HWI-EAS443:3:59:10:143#0/1
GCAAATGCAGACACATTATGTATAGGTTATCATGCGAACAA
+HWI-EAS443:3:59:10:143#0/1
`¥^aQO¥RI¥_Y¥`U`S_a¥YJQ[_ULUS[UWTRTOPJZ

@HWI-EAS443:3:60:1248:1189#0/1
ATTTGCAACCGCAAATGCAGACACATTATGTATAGGTTAT
+HWI-EAS443:3:60:1248:1189#0/1
Y`b_Vaab][_PY[`a`b]aXa_aa]_aaaa]a`¥P^aV
@HWI-EAS443:3:61:1785:1019#0/1
TACATTTGCAACCGCAAATGCAGACACATTATGTATAGGT
+HWI-EAS443:3:61:1785:1019#0/1
a_aaaaa``aba^```^`_a``aaa]^Za`_¥XR¥¥¥[TR
@HWI-EAS443:3:62:1529:169#0/1
TGTTGAATTGTTTCGCATGATAACCTATACATAATGTGTCT
+HWI-EAS443:3:62:1529:169#0/1
abVPT]_a_Z`_PFP^]a_aXYT_U`[VW]ZWUVV`ZWY
@HWI-EAS443:3:62:1699:100#0/1
GTTGAATTGTTTCGCATGATAACCTATACATAATGTGTCTG
+HWI-EAS443:3:62:1699:100#0/1
aaaaQ]aa`ZVK]GUa_^`YX`_^^[U]_^Y]^[_]_]
@HWI-EAS443:3:63:551:552#0/1
GTTGAATTGTTTCGCATGATAACCTATACATAATGTGTCTG
+HWI-EAS443:3:63:551:552#0/1
a_aa`aa`a_a`a`^aa`a_a`aaaa]_`aa_aa]_Y]_a
@HWI-EAS443:3:63:842:1400#0/1
CGCAAATGCAGACACATTATGTATAGGTTATCATGCGAAC
+HWI-EAS443:3:63:842:1400#0/1
a^`b¥[¥]¥aaa^_a`X`aaaa_a_V`_P[¥XOT[Z]SZ][
@HWI-EAS443:3:67:518:250#0/1
ACATTTGCAACCGCAAATGCAGACACATTATGTATAGGTT
+HWI-EAS443:3:67:518:250#0/1
aaaa__`aa`__a^_Y____`_a_¥_[`_^^]aX]¥UZ¥X]
@HWI-EAS443:3:69:1327:1629#0/1
GTTGAATTGTTTCGCATGATAACCTATACATAATGTGTCTG
+HWI-EAS443:3:69:1327:1629#0/1
aaa```bba`a`a`aaaaaa_`aaaa_aa`^aa¥`_^_a
@HWI-EAS443:3:69:348:1332#0/1
GGCAATACTAGTAGTTCTGCTATATACATTTGCAACCGCA
+HWI-EAS443:3:69:348:1332#0/1
`bbaabbbaba¥baabbb`aaab_a_aab`a_abbaaaa`
@HWI-EAS443:3:71:733:975#0/1
TACATTTGCAACCGCAAATGCAGACACATTATGTATAGGT
+HWI-EAS443:3:71:733:975#0/1
abbaaa_V]bb`^^Yab_]a`a``^ab]aa_`^YZ_a`QS
@HWI-EAS443:3:75:611:97#0/1
ACATTATGTATAGGTTATCATGCGAACCAATTCAACAGACA
+HWI-EAS443:3:75:611:97#0/1
a``aa`aa`aaaaa[``Z[_X`W]^`UYR]__[_]_¥ZHW
@HWI-EAS443:3:81:437:123#0/1
CGCATGATAACCTATACATAATGTGTCTGCATTTGCGGTT
+HWI-EAS443:3:81:437:123#0/1
abaabbbbaaaaaabaaaa`ab^a`_`aW``a``_a`^_
@HWI-EAS443:3:82:1718:1195#0/1
CGCATGATAACCTATACATAATGTGTCTGCATTTGCGGTT

@HWI-EAS443:3:98:48:610#0/1
GTTCGCATGATAACCTATAACATAATGTGTCTGCATTTGCG
+HWI-EAS443:3:98:48:610#0/1
^SWTPTX[U_Y]]YF0`¥¥`]`a0_ZRSFYX_]ZKUFQRB
@HWI-EAS443:3:99:133:1369#0/1
CTGTTGAATTGTTCGCATGATAACCTATAACATAATGTGTC
+HWI-EAS443:3:99:133:1369#0/1
`bbaabaaabbabbbab_bbbbbabaabbabbbbb`b_b
@HWI-EAS443:3:100:1773:986#0/1
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+HWI-EAS443:3:100:1773:986#0/1
abaaab`a^a`R^__aSUa`QI_¥ba_aQ_[UGJ]BBBBB
@HWI-EAS443:3:13:1059:646#0/1
CACGTGCATGGAAAGTGTCAAAAATGGGACTTACTACCCA
+HWI-EAS443:3:13:1059:646#0/1
__]a_aa_aaa^_]_X`_^`_]XV`__^_a^_^_YQT_
@HWI-EAS443:3:3:178:447#0/1
AGTTACCACAGGGATGGTAGATGGATGGTACGGTTATCAC
+HWI-EAS443:3:3:178:447#0/1
aa]aa`bab`bbb]_[SHbV^`b`_^`aR^¥aZ`a^WW]L
@HWI-EAS443:3:54:647:1004#0/1
TAGTTGTTTCCACAATGTAGGACCATGAGCTTGCTGTNGA
+HWI-EAS443:3:54:647:1004#0/1
a_a_aba`_^`[_`a^T[``^]___`_]a]__a^_UIDYV
@HWI-EAS443:3:57:1121:1896#0/1
TGTCACCAAAAACATATGCATCTGCATTCTGTCCATTA
+HWI-EAS443:3:57:1121:1896#0/1
aa^PRZQ]X`YX¥[U__[RU^ZS^VV]VOFLYa]XDHSZZ
@HWI-EAS443:3:58:1100:1119#0/1
AAACAGGGGGGGTGGACAGGGATGGTAGATGGATGGTAC
+HWI-EAS443:3:58:1100:1119#0/1
aab^abbaaaaa`a`_[Y]a___aW_]`Ra_ZO`_V[^
@HWI-EAS443:3:70:1299:271#0/1
GGAAATTGGAAACGGCTGCTTTGAATTTTACCAAAAAGC
+HWI-EAS443:3:70:1299:271#0/1
aa_QW`[_aZ__U]UW_Z]Q^THLVKUX_XRVVGSXYOXU
@HWI-EAS443:3:71:67:605#0/1
AAAAACAATGCCAAGGAAATTGGAAACGGCTGGCTTGAA
+HWI-EAS443:3:71:67:605#0/1
ab[[[aaa__`aa]_aa`__^^]_]^^[^XR_SSQPQ
@HWI-EAS443:3:78:999:185#0/1
GCTGGCTGATCCTGGAAATCCAGAGTGTGAATCACTCTC
+HWI-EAS443:3:78:999:185#0/1
a_b_a`abaaaa`^bb`baa`V``aaV`__`aa`]`¥a¥__
@HWI-EAS443:3:88:1276:108#0/1
GGATATGCAGCCGACCTGAAGAGCACACAGAATTTTCCAA
+HWI-EAS443:3:88:1276:108#0/1
aba`a_^X]X[_ZZZ_U`YY_a^P[U[]aa`Z``a`^^__
@HWI-EAS443:3:92:374:600#0/1
CACCCCCGAATTTCTTTTTTAACTAGCCATATTAATTT

+HWI-EAS443:3:92:374:600#0/1
S[bbWXa`LXabb`abbbbbbba¥a^bbab¥¥b_b¥TWab^
@HWI-EAS443:3:93:1295:515#0/1
GAATTTACTTTGTTAGTAATCTCGTCAATGGCACAATCTT
+HWI-EAS443:3:93:1295:515#0/1
_aa^`a`_aabbZaaa__aa`b`b`^a_]_aXa^```_[__
@HWI-EAS443:3:11:462:1152#0/1
AATCTCCTGGGTAANACGTTCCATTGTCTGAACTAGTTGT
+HWI-EAS443:3:11:462:1152#0/1
a`baaa_`aa^LDUa`__`_a[ZZaa`_`]_a_X_`]
@HWI-EAS443:3:4:1602:512#0/1
AATCTCCTGGNTAACACGTTCCATTGTCTGAACTAGTTGT
+HWI-EAS443:3:4:1602:512#0/1
a`X`XKTR`[DMW_]UG_]Z^[I¥WN]__QYY^ZZBBBB
@HWI-EAS443:3:100:1268:1511#0/1
TGGCTGGGGTTTATAGCACCTTGGGTGTCTGACAAGTGG
+HWI-EAS443:3:100:1268:1511#0/1
```Pbba`¥ZJ`aa`aa`^V^`abaLRRQ[aNVYWBBBB  
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+HWI-EAS443:3:47:1563:1239#0/1  
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X^DOWab]`baUZb\_\_aUaVYU[bab¥`K\_b^a^XF\_V]a  
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+HWI-EAS443:3:85:1368:1912#0/1  
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a\_]`UDX`aa\_^`\_^`\_\_\_a\_^a¥\_]Y\_V\_W]\_UZ¥^¥  
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aa\_^\_a`[a^`\_aa\_a\_\_`Z`aaaa\_¥\_\_ND¥a\_\_^ZZ\_\_  
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¥``a\_``aaaa`\_]\_\_Z¥`^XDUV][GVY\_\_\_\_`ZR[Y]\_\_  
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ab\_aaa]¥`^`a[^`^`[]`aaa\_aa\_\_\_UZ\_ZY^ZDDTYZ  
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+HWI-EAS443:3:42:1769:1352#0/1  
a`^`^`[aa[a`a^aaaaa[^U¥a`[a`Z\_aZN¥^VX¥Y\_¥¥  
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+HWI-EAS443:3:44:62:1271#0/1  
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a¥`\_abaaaaa`^`a`\_aa`aaab`\_`a^^`a\_a¥`^`^`  
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+HWI-EAS443:3:95:310:1251#0/1  
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+HWI-EAS443:3:97:221:63#0/1  
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aaa`^`\_`a^a\_a^^V¥0Taa\_a`a^X\_aXDUU[[]Q[V]V  
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aa¥W¥`¥]ZZba]Y^S```PHWUZRY\_BBBBBBBBBBBBB  
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+HWI-EAS443:3:1:1262:1783#0/1  
aab`¥XZX\_aa`bXa`\_^W\_\_XXa`aa]0`a^\_]`^\_aBB  
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+HWI-EAS443:3:23:1318:2035#0/1  
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+HWI-EAS443:3:25:1346:1522#0/1  
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+HWI-EAS443:3:4:1372:845#0/1  
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U¥`^abbbbV\_UFVaabbbaaaRa\_ab`] `baaa^\_`a`  
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+HWI-EAS443:3:7:389:623#0/1  
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+HWI-EAS443:3:92:1114:1798#0/1  
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+HWI-EAS443:3:93:1099:820#0/1  
a\_ZZZ\_^]X\_aa¥FZaaaVU\_a]XJ]W\_`W`Z]\_X¥T]YS  
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a^¥^\_TQ[DSQ]P]\_^R]¥aVV[]¥^\_U\_^S`¥Z]TWW`  
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@HWI-EAS443:3:34:780:1753#0/1  
GAAATTGGAAACGGCTGCTTTGAATTTTACCACAANATAG  
+HWI-EAS443:3:34:780:1753#0/1  
Q\_^¥Y\_X`¥^¥b```a`\_Q`bUV[\_Z`^^XBBBBBBBBBB  
@HWI-EAS443:3:37:859:816#0/1  
AAATGGGACTTATGACTACCCAAAATACTCAGAGGGAGAA  
+HWI-EAS443:3:37:859:816#0/1  
^`¥]a^^]``a`baa`^[`\_`aaZ^\_XTT\_X`^X\_^^  
@HWI-EAS443:3:3:337:373#0/1  
GACCTCAAAGTCTCTATCAGAATGCAGATGCATATGTTTT  
+HWI-EAS443:3:3:337:373#0/1  
`[\_`\_\_a¥]]¥^aa\_]\_\_a[¥\_SYGZ\_^[QJXZ`^`S^^`

@HWI-EAS443:3:40:475:110#0/1  
GCGGGGACATCAAGATACAGCAAGAAGTTCAAGCCGGCAA  
+HWI-EAS443:3:40:475:110#0/1  
`NZDO`^ZXLVKNRJJVZN]RZ^NNRHRU^BBBBBBBBB  
@HWI-EAS443:3:44:353:256#0/1  
CACGTGTATCGCATTTGTGGTAAAATTCAAAGCATGCTT  
+HWI-EAS443:3:44:353:256#0/1  
a`bbaababbab`abaababb\_\_aaaaaaaa\_a]aaa`a\_  
@HWI-EAS443:3:51:1275:1378#0/1  
ACCGTACCATCCATCTACCATCCCTGTCCACCCCGTTCT  
+HWI-EAS443:3:51:1275:1378#0/1  
a\_\_PTW¥Xa\_¥[N][S\_UZZNH¥QZaQ`ZPSMHSRPHDHZ  
@HWI-EAS443:3:55:156:1550#0/1  
ACCCCTTACCTTTTCATATAAGTTCTTCACATTTGAATC  
+HWI-EAS443:3:55:156:1550#0/1  
a`ab`\_¥¥\_[`b`U`\_VaadWMR]YX`a\_a``]]^Y`  
@HWI-EAS443:3:60:73:1194#0/1  
CAAGGAAATTGGAACGGCTGCTTTGAATTTACCCCCCA  
+HWI-EAS443:3:60:73:1194#0/1  
^RN^[Xa\_^PV][BBBBBBBBBBBBBBBBBBBBBBBBB  
@HWI-EAS443:3:81:1155:1453#0/1  
CAAAATATGTA AAAAGCACAAAATTGAGACTGGCCNCGGG  
+HWI-EAS443:3:81:1155:1453#0/1  
Na`[^babb]^]XXTaZ^]\_b`[¥QZ]YaabbBBBBBBB  
@HWI-EAS443:3:89:1343:80#0/1  
GGGTGCTTTGAATTTTACCACAAATGCGATAACACGTGGA  
+HWI-EAS443:3:89:1343:80#0/1  
a\_G[\_MYZ`X[`]^baYN[SVWTYOZFZ[TIPV]J^S\_LW  
@HWI-EAS443:3:8:1082:774#0/1  
ATTGGAACGGCTGCTTTGAATTTTACCACAAATGGGGAA  
+HWI-EAS443:3:8:1082:774#0/1  
abb\_b`aaaaS]\_aR¥Y¥FT\_QQ^BBBBBBBBBBBBBBB  
@HWI-EAS443:3:90:1332:1850#0/1  
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+HWI-EAS443:3:90:1332:1850#0/1  
aabba\_ba]Y¥a\_ba`baabb`ab]bbabababb`baab  
@HWI-EAS443:3:96:1325:1524#0/1  
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+HWI-EAS443:3:96:1325:1524#0/1  
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@HWI-EAS443:3:9:1551:102#0/1  
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+HWI-EAS443:3:9:1551:102#0/1  
XbSa`[¥Vba`VXJSYWYU\_\_PRNRTR¥W[U^BBBBBBB  
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CAATGGCATTCTGTGTGCTCTTCAGGTCGGCNGCATATGC  
+HWI-EAS443:3:99:1129:1441#0/1  
aaabaXa^bZFZ^`W`abbab^`U\_[P¥bXODOWaU\_BBB  
@HWI-EAS443:3:13:1271:306#0/1  
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+HWI-EAS443:3:13:1271:306#0/1  
]ba\_]VRI\_X^aaa\_abb^XRa[^\^IHU`^TNKa\_YH` [W  
@HWI-EAS443:3:14:1742:119#0/1  
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+HWI-EAS443:3:14:1742:119#0/1  
]S`^a]LYaa`Y¥WUVLY\_VSV^¥`U^VLOPW]\_UGS\_WR  
@HWI-EAS443:3:14:1779:1442#0/1  
ATCCGGCTTGAACCTTCTTGCTGTATATTGATGTCCCCACA  
+HWI-EAS443:3:14:1779:1442#0/1  
a\_WW`^L]aa`\_[[¥M[TWP]\_SZTG[S^\_Z¥^PEHX[GP  
@HWI-EAS443:3:17:59:1275#0/1  
TAACACGTTCCATTGTCTGAACTAGTTGTTCCACAATGC  
+HWI-EAS443:3:17:59:1275#0/1  
`X`\_baaaX^`^`¥JJS¥\_T`U\_XaRL¥]Y\_W[^Ya]RBB  
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CATTGAAGGGGGTGGACAGGGATGGTAGATGGAGGGTAG  
+HWI-EAS443:3:24:662:311#0/1  
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@HWI-EAS443:3:28:1397:1286#0/1  
CTCCTCTGAGTATTTTGGGTAGTCATTAGTCCCATTTTTG  
+HWI-EAS443:3:28:1397:1286#0/1  
aa`Zb¥bbaaWa]a\_aWX\_TU¥Z\_\_`\_a^`]]\_`^aa¥¥  
@HWI-EAS443:3:35:208:599#0/1  
TGTGGGGACATCAAGATACAGCAAGAAGTTCACGCCGGAC  
+HWI-EAS443:3:35:208:599#0/1  
\_aU¥X¥]X[ba`S¥`^Z`^Z`^`\_OS^WUa¥H¥¥a^MXF  
@HWI-EAS443:3:36:1046:767#0/1  
CTTCGACTGTTATTTTGTCTCCCGCTCTACTAGTGTCGG  
+HWI-EAS443:3:36:1046:767#0/1  
`X¥`b\_HZV^\_ZZ\_a`ZW]\_a`aY`BBBBBBBBBBBBBB  
@HWI-EAS443:3:38:1367:488#0/1  
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+HWI-EAS443:3:38:1367:488#0/1  
aa^aa`^b^aW\_a[¥Z\_\_`^aQ`a`aaYHHL]S\_GT`¥V]  
@HWI-EAS443:3:44:727:1145#0/1  
ACCGGTTTCATTGAAGGGGGTGGTCAGGGATGGTAGATG  
+HWI-EAS443:3:44:727:1145#0/1  
a`^aa]aaa\_aaa^`aa\_a`\_T`^UW[^^aWZ`\_W^^[U^  
@HWI-EAS443:3:49:949:136#0/1  
AGCCGGTTTCATTGAAGGGGGTGGACAAGGATGGTAGAT  
+HWI-EAS443:3:49:949:136#0/1  
aba^baaabaabaabaabbabba¥aVZR`aaa`\_aa¥\_aZ¥  
@HWI-EAS443:3:52:80:1858#0/1  
CATGACTCGAACAAAGGTGTAACGGCAGCATGGCCTCATT  
+HWI-EAS443:3:52:80:1858#0/1  
a`a`ab\_aaZ\_Y`Z^`ZW\_T\_[RTL[M^BBBBBBBBBBBB  
@HWI-EAS443:3:54:1123:1785#0/1  
CGGGGACATCAAGATACAGAAAGAAGTTCAAGCCGGAAAT  
+HWI-EAS443:3:54:1123:1785#0/1  
aa¥`ZZTaJ`a[a¥¥RZ`bTZXaaKbMvb][b]Vbbbaa`

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+HWI-EAS443:3:55:1612:1068#0/1  
abbZb]J\_bV[bab`b``baab]ZH\_VUWZU`aaYBBBBB  
@HWI-EAS443:3:5:909:1336#0/1  
CGGGGGTGGACAGGGATGGTAGACGGATGGTACGGTTATC  
+HWI-EAS443:3:5:909:1336#0/1  
ab``YPUTOVXX^]]TWOWHY\_\_PTV]J^\_BBBBBBBBBB  
@HWI-EAS443:3:61:1106:600#0/1  
GTTCCATTGTCTGAACTAGTTGTTTCCACAATGTAGGACT  
+HWI-EAS443:3:61:1106:600#0/1  
a^^M¥W\_a]X¥URXRZ\_]^^Y][[VTRSV^XUY^WVHO  
@HWI-EAS443:3:61:804:647#0/1  
TTGGGGACATCAAGATACAGCCAGAAGTTCAAGCCGAAA  
+HWI-EAS443:3:61:804:647#0/1  
a)`abRP^¥]ZT\_X0Zaaa\_RH[`¥J`^]^ZZQZX\_¥ZXV  
@HWI-EAS443:3:62:52:824#0/1  
NTGGGTAACACGTTCCATTGTCTGAACTAGTTGTTTCCAC  
+HWI-EAS443:3:62:52:824#0/1  
DNVVVVLUXVRVYYYYWXYUXRUVWMRRRXXVXRXYVW  
@HWI-EAS443:3:69:566:741#0/1  
TTGGAAACGGCTGCTTTTAAATTTTACCACAAATGCGATAG  
+HWI-EAS443:3:69:566:741#0/1  
aaW^[`^\_VX``¥TY`¥HY]]Z`a[QQMOZ\_ROJMUURTX  
@HWI-EAS443:3:73:413:1175#0/1  
CGGCTGGTGTTTATAACACCCTTGGGTGTCTGACAAGTTG  
+HWI-EAS443:3:73:413:1175#0/1  
abab\_b¥LWZb\_aab`\_abbSaS^aU\_T\_\_ZRVQ`^\_aY  
@HWI-EAS443:3:76:1032:689#0/1  
GTGGTGTTTATAGCACCTTGGGTGTCTGACCAGTTGTAT  
+HWI-EAS443:3:76:1032:689#0/1  
L`\_ZZb^]Z\_ba¥F^^b¥T`abSXXaa\_T¥aYbU]QO\_N  
@HWI-EAS443:3:79:1475:1694#0/1  
GGTGGGGACATCAAGATACAGCATGAAGTTCAAGCCGGAA  
+HWI-EAS443:3:79:1475:1694#0/1  
aa]b\_]`aaaa¥aaaa`\_]`\_`aaaZ``Y\_Za\_\_YT`¥^^  
@HWI-EAS443:3:94:321:2033#0/1  
CGCTTCTCTGAGCATTTTGGGTAGTCATAAGTCCCATTT  
+HWI-EAS443:3:94:321:2033#0/1  
aaaabbbbbbb`aabb`aaaa^a]aa^aaaa`a^\_`aaa`^  
@HWI-EAS443:3:95:712:509#0/1  
CAATGCCAAGGAAATTGGAAACGGCTGATTTGAATTTTAA  
+HWI-EAS443:3:95:712:509#0/1  
ab^`a[TbabbX\_ab`\_¥Xbbbbbaa]F]¥[K\_\_RU]aJ]  
@HWI-EAS443:3:96:1366:744#0/1  
ACGTTCCATTGTCTGAACTAGTTGTTTCCACAATGTAGGG  
+HWI-EAS443:3:96:1366:744#0/1  
^]`^`^`¥]aUaW¥ab`\_]RbPaS`\_`ZR¥ZZV`\_^Y`^U  
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GGAAATTGGAAACGGCTGCTTTGAATTTTACCAAAAATGA

+HWI-EAS443:3:98:1664:1697#0/1  
`b\_a`bbba\_b\_a^ab`NWaaNWaYab`YGN\_J\_`^H¥B  
@HWI-EAS443:3:100:596:1680#0/1  
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+HWI-EAS443:3:100:596:1680#0/1  
aa\_]W]ZW\_\_UOW^F]ZaNZa\_T¥]]T[Ya\_PM¥aWXBBB  
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TCCGAGGATCCAGCCAGCAATGTTACATTTACCCAAATGC  
+HWI-EAS443:3:10:1400:500#0/1  
[¥PEW¥ST[¥¥TUVYJL[`V\_[[\_SSRSVPVVR[VSBBB  
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+HWI-EAS443:3:10:528:55#0/1  
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+HWI-EAS443:3:10:918:1528#0/1  
a`^\_`a`a`aa\_¥¥`^\_Y\_]\_`VKMMO^VBBBBBBBBB  
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+HWI-EAS443:3:13:1379:1108#0/1  
aa`XZ]TQ[^X\_X]G^Sa\_XZVX\_TZLLWa^]SZW]TBBB  
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AATCTCCTGGGTAACACGTTCCATTGTCTGAACTAGTTGT  
+HWI-EAS443:3:13:1584:1609#0/1  
Va^Z^\_`a[a\_a^]]b`[UUU^]a^T`Z^\_NXN\_Z]^  
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GCTCTTTACATATTTTGGACATTTTCCAATTGTGATCGGA  
+HWI-EAS443:3:13:695:1256#0/1  
\_a^F¥]P¥\_WSW^aaX[]QXaYb`\_¥\_`^ [ZGV]`SWUZQ  
@HWI-EAS443:3:16:1253:212#0/1  
AATCTCCTGGGTAACACGTTCCATTGTCTGAACTAGTTGT  
+HWI-EAS443:3:16:1253:212#0/1  
\_^\_^[\_¥a¥Y]¥`\_N\_Z\_^ [Z]X]\_¥S^\_Y¥^T^]YX^\_X  
@HWI-EAS443:3:17:674:1229#0/1  
ACACGTTGTATTGCAATCGTGGACTGGTGTATCTGAAATG  
+HWI-EAS443:3:17:674:1229#0/1  
¥¥UVT[``YT^W\_a`^`ZPX`S`[Ua^aY^QZXa`YT[`  
@HWI-EAS443:3:19:1298:1874#0/1  
CCGACTGCTTTGAATTTTACCACAAATGCGATAACACGTG  
+HWI-EAS443:3:19:1298:1874#0/1  
a`aa`aa\_aa``aaaa`\_G`a`aaaa`]aa`a`\_a\_aV]  
@HWI-EAS443:3:1:428:1233#0/1  
AATCTCCTGGGTAACACGTTCCATTGTCTGAACTAGTTGT  
+HWI-EAS443:3:1:428:1233#0/1  
aabZ`aaaa\_]\_ba]aaa]a\_^a`^a\_Waa`\_W\_]XRBBB  
@HWI-EAS443:3:1:735:1147#0/1  
AATCTCCTGGGTAACACGTTCCATTGTCTGAACTAGTTGT  
+HWI-EAS443:3:1:735:1147#0/1  
``aab`Yaa^\_a]\_^a]`\_\_\_a\_aU]a¥]^^^\_\_WBBB

@HWI-EAS443:3:1:818:362#0/1  
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+HWI-EAS443:3:1:818:362#0/1  
][X\_a`WX¥aT\_VYWJ\_\_Z[P\_]``S¥XTGQU`a^VJ]BB  
@HWI-EAS443:3:20:1026:1473#0/1  
AATCTCCTGGGTAACACGTTCCATTGTCTGAACTAGTTGT  
+HWI-EAS443:3:20:1026:1473#0/1  
a\_^\_¥^^Z¥¥^MW`]¥^\_Z\_]X^]U^ZZZ^X]ZZZZWWWWW  
@HWI-EAS443:3:20:1342:792#0/1  
AATCTCCTGGGTAACACGTTCCATTGTCTGAACTAGTTGT  
+HWI-EAS443:3:20:1342:792#0/1  
`\_\_]^SU]Z]^LV^]a][[^\_^SZVVTNX]PZW^^WSPZU  
@HWI-EAS443:3:20:1417:1275#0/1  
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+HWI-EAS443:3:20:1417:1275#0/1  
`aa\_a`\_a`X^X`\_¥`\_a^^]U[\_\_\_`]]^US^Y^Y\_YY]Y  
@HWI-EAS443:3:20:277:42#0/1  
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+HWI-EAS443:3:20:277:42#0/1  
Zaab^a`Wbb\_abTabbb[aYX`bZa¥]aa^^¥a[b]a^¥  
@HWI-EAS443:3:21:1282:1578#0/1  
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+HWI-EAS443:3:21:1282:1578#0/1  
aRZab``]VSWO`\_Y\_``^]`Y\_`^\_N\_]Y]ZWW¥\_U\_\_¥  
@HWI-EAS443:3:22:207:302#0/1  
AATCTCCTGGGTAACACGTTCCATTGTCTGAACTAGTTGT  
+HWI-EAS443:3:22:207:302#0/1  
abaaa`a\_`]`W\_\_\_\_`\_\_^\_a\_\_^^¥V]\_\_^^]^X]X^\_]`  
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+HWI-EAS443:3:26:117:1934#0/1  
aa`a[aa¥\_TXVa`^`^`VWVaa\_^SRJZ]^ [YS¥]YSSMO  
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+HWI-EAS443:3:28:1596:678#0/1  
ababbbbbbb`aaab\_\_\_\_[a^W\_L\_Z``aa[^`]Uaa`aaY  
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+HWI-EAS443:3:28:520:147#0/1  
a^[¥PZ^MD[aI\_\_Y^[ [ZY^Z¥XXMV^^XTRPUU¥HP[M  
@HWI-EAS443:3:29:151:1010#0/1  
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+HWI-EAS443:3:29:151:1010#0/1  
`a`b\_aa`a]¥F``Y\_]\_\_^`\_PZ\_[Q¥\_WQW^¥Z¥XZZB  
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+HWI-EAS443:3:29:60:1969#0/1  
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+HWI-EAS443:3:2:1677:299#0/1  
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+HWI-EAS443:3:30:1274:40#0/1  
aabbbb^¥b`bZaaaa`b\_a`a\_aa\_\_aa\_^`^`^`[\_`\_`  
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+HWI-EAS443:3:30:753:1981#0/1  
¥S\_a^bb`a^SF\_¥\_b`[\_¥b`\_]`aYNVXU]^`[^]^Z[^]  
@HWI-EAS443:3:32:1024:60#0/1  
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+HWI-EAS443:3:32:1024:60#0/1  
abaaa\_]`aaaX`\_^`\_\_^^\_^]^^\_^]\_^]X]V]Z\_dW  
@HWI-EAS443:3:32:279:408#0/1  
ACGCGTTATCGCATTTGTGGTAAAATCAAAGCAGCCGTT  
+HWI-EAS443:3:32:279:408#0/1  
\_TXR[HR[Y[]]RWX\_YIY¥T[TX]]P[O[OUXSKEZOKM  
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+HWI-EAS443:3:33:134:1650#0/1  
`][aYaaUV¥XN]]¥[`^W[a¥ZNTWQ[XQX¥TZ[ZWY[W  
@HWI-EAS443:3:33:1499:373#0/1  
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+HWI-EAS443:3:33:1499:373#0/1  
a`]abaaaaaa`\_\_a\_a`aa^aZ^aa``\_a¥[V`YU\_VZ[  
@HWI-EAS443:3:33:237:725#0/1  
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+HWI-EAS443:3:33:237:725#0/1  
aaabaaabbababbbb`babaaaab`\_b\_aaa]`\_R[]aB  
@HWI-EAS443:3:34:360:1270#0/1  
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+HWI-EAS443:3:34:360:1270#0/1  
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@HWI-EAS443:3:34:606:1259#0/1  
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+HWI-EAS443:3:34:606:1259#0/1  
`\_`aaaaZ``\_[\_V\_[a\_Z`^^`]UX^\_Y^^UWRVMVYT  
@HWI-EAS443:3:36:414:1036#0/1  
AGCCGGGAGACAAAATAACATTCCAAGCAACTGGAECTCT  
+HWI-EAS443:3:36:414:1036#0/1  
\_Xabaa`X`aaaaaaaa^aaa`a``¥`\_\_aa`¥^^ZG¥\_^  
@HWI-EAS443:3:37:202:1649#0/1  
CAGCCGGGAGACAAAATAACATTCCAAGCAACTGGAECTC  
+HWI-EAS443:3:37:202:1649#0/1  
aRH¥``\_[VNNYZJ`\_`YVRQWPP¥\_[^I¥TJTNTTXWGNU  
@HWI-EAS443:3:37:826:1795#0/1  
TAAGACTCTGTAACTTCTAGAAGACAAGCATAACGG  
+HWI-EAS443:3:37:826:1795#0/1  
K\_aV¥a^ba^aaLaab\_aa\_Y\_[OYa[`bRTZba\_aa\_LX



@HWI-EAS443:3:38:1360:906#0/1  
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+HWI-EAS443:3:38:1360:906#0/1  
aa]`a\_]a`ab\_a^a\_aa`Ya¥`a`Va¥^UVWZUXBBBBB  
@HWI-EAS443:3:38:386:1099#0/1  
TTTGATGGTGATAACCGTACCATCCATCTACCATCCAAAT  
+HWI-EAS443:3:38:386:1099#0/1  
`^` [ ]\_ ^U] ] ^M^ ] a] V\_VV\_ ^ ` ` ] ^¥^\_ VWXYP¥\_ ¥YP  
@HWI-EAS443:3:39:1493:531#0/1  
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+HWI-EAS443:3:39:247:90#0/1  
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+HWI-EAS443:3:39:558:269#0/1  
a` [^^\_X¥\_[UL¥¥ZX[WWYYUXTUTXYWTWXUTUXXYX  
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+HWI-EAS443:3:39:777:622#0/1  
aaaaaaaa`aaaZ``aa` `¥\_\_`\_¥¥\_XZ\_¥UUXYYYYW^\_V  
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+HWI-EAS443:3:39:791:1834#0/1  
RYa¥[ [V\_aZ`U` [T\_b]\_Z¥\_ba`\_Ra[a` [ ]\_b\_SF[Y  
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+HWI-EAS443:3:3:402:1103#0/1  
aaa`aa¥\_ba`^a`aa^`\_\_\_\_]\_ ` `a^Z\_]\_ `X\_] ^Z^\_Z  
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+HWI-EAS443:3:3:487:1971#0/1  
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+HWI-EAS443:3:3:547:779#0/1  
\_Z`\_]ONW`ZZQ]^]Z`\_`PU]^][PSQWZ^[ [BBBBBB  
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+HWI-EAS443:3:40:214:1735#0/1  
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+HWI-EAS443:3:42:262:1016#0/1  
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+HWI-EAS443:3:45:556:61#0/1  
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+HWI-EAS443:3:47:863:1920#0/1  
Y^^[\_`^^^aa]`\_X`a\_`TZ¥Y`]YYa]W[\_X[`¥a`  
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+HWI-EAS443:3:49:744:51#0/1  
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+HWI-EAS443:3:51:1385:536#0/1  
][[¥Ua[[aKa`\_Z¥b^a`\_aN¥a`bbb`VR\_bb`bb^]a  
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+HWI-EAS443:3:53:1121:777#0/1  
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+HWI-EAS443:3:53:550:603#0/1  
aW\_ba]]\_bbba[\_b]b\_a]¥\_aY`bb[aaaVb[X\_G[aa  
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+HWI-EAS443:3:54:1337:100#0/1  
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+HWI-EAS443:3:54:512:1519#0/1  
`b\_\_\_[\_`]`¥YX^\_]\_XW]]UW^\_]`¥¥^Q^`^` [[]V  
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+HWI-EAS443:3:55:1442:812#0/1  
aa`]Zaa\_\_`aV]a¥`]`a¥\_[\_]`^^`^WYX\_]a[\_a]  
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+HWI-EAS443:3:56:803:659#0/1  
aa`aaaa\_`a`aa\_aa\_aaa\_\_a¥\_\_a\_`\_^aa^ZTa`a  
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+HWI-EAS443:3:58:1040:948#0/1  
a`¥FVa\_bR]a`Y\_\_a\_MTTYFYXQZR\_WU]YG[R\_\_^^^

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+HWI-EAS443:3:58:1398:687#0/1  
abbaaabbbabb\_ba`a\_aaa``a`a\_\_aa\_`\_]YR\_] ]  
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+HWI-EAS443:3:58:23:583#0/1  
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+HWI-EAS443:3:59:1665:610#0/1  
a\_`\_]\_^]¥U¥[Q^^Z]]\_^^YY^^\_\_[Z^`VXZ]VSUXGT  
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+HWI-EAS443:3:5:1053:1617#0/1  
a\_`S\_aa\_\_aX\_[\_`¥aa[a\_¥`\_aa`\_^`a\_aa\_[\_\_`  
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aa\_aa\_`^aR`\_YX]T\_`^`^`\_US¥^U[^UR^^aBBB  
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+HWI-EAS443:3:5:343:494#0/1  
\_aa\_[a\_baZ\_]U\_K`¥`baaZ]W\_\_aaa\_^^bY^`VY[Y  
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+HWI-EAS443:3:60:339:578#0/1  
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+HWI-EAS443:3:62:814:1777#0/1  
a`]]V]a][ ]YV^aaa][ ]Xa^`Y¥[T\_`\_¥^\_Y^^WSYU  
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+HWI-EAS443:3:64:897:1406#0/1  
\_`^`¥`aaa]`V``\_a`aaa`aaa`a]X]`¥`\_`\_`TQLJY[  
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+HWI-EAS443:3:65:1097:609#0/1  
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+HWI-EAS443:3:68:1581:188#0/1  
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+HWI-EAS443:3:68:1613:1758#0/1  
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+HWI-EAS443:3:69:856:884#0/1  
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+HWI-EAS443:3:70:20:594#0/1  
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+HWI-EAS443:3:72:98:148#0/1  
a\_R]^`¥¥`Z\_\_^\_aQ\_¥¥¥\_[T^¥SWSW¥YWTXUU[UTY  
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+HWI-EAS443:3:73:275:1418#0/1  
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ab¥F¥a¥`baa`bba\_`abb\_^\_aa¥Y¥\_¥VV¥¥^aa¥`¥  
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+HWI-EAS443:3:77:860:32#0/1  
aaaaaaaa`aa]V`aa`a^`\_``\_\_\_Z^``]]]¥R`XX\_^  
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+HWI-EAS443:3:80:888:1590#0/1  
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+HWI-EAS443:3:81:1663:853#0/1  
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+HWI-EAS443:3:81:215:1675#0/1  
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+HWI-EAS443:3:82:821:737#0/1  
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+HWI-EAS443:3:91:1050:594#0/1  
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+HWI-EAS443:3:91:1438:714#0/1  
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+HWI-EAS443:3:92:1542:182#0/1  
aabY¥^bab`\_a\_[YbaaZ[\_`a^^¥`\_`b`\_aRHxKT]]  
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+HWI-EAS443:3:92:418:1482#0/1  
`S¥`\_`\_`Z\_a`S^]]a]\_YV¥\_^X]\_W]^UZ\_V]^W]]W  
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+HWI-EAS443:3:93:232:1546#0/1  
W^^`Wa^SLLIT`]]`a]YXZZ^U]V`PUX`[¥W^\_YU[¥B  
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aZaa````a`a`\_`\_`\_a^`aaa\_aU\_aa`\_`^`\_]]\_]]¥  
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+HWI-EAS443:3:94:249:1808#0/1  
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+HWI-EAS443:3:95:82:255#0/1  
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@HWI-EAS443:3:96:737:662#0/1  
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+HWI-EAS443:3:96:737:662#0/1  
aaaa`\_`\_`baaX`a`a\_a]\_`^`\_`\_]]`a]\_^`\_`Z`^^  
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aaaaaaaaa\_Z¥¥Y]]a\_\_a`\_a`\_ZRa\_]\_^[]a^^YZ

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+HWI-EAS443:3:97:190:1197#0/1  
ab`a`a`a`a`Y`a`W]`\_\_`¥`\_\_\_]¥W¥`\_\_^X^`][\_X  
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+HWI-EAS443:3:98:795:1718#0/1  
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aaa``\_\_\_a`^X\_\_\_a\_aZ^]]^^\_]\_]\_\_^X]]\_XY\_Y  
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@HWI-EAS443:3:70:1689:1367#0/1  
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+HWI-EAS443:3:70:1689:1367#0/1  
a\_\_aa\_aaa\_a\_aaaa\_ba^^b^DYaX`]b\_a[Za]\_\_\_`  
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GCTGGCTGGATCTTGGGAAATCCAGAGTGTGAATCACTCT  
+HWI-EAS443:3:100:1036:494#0/1  
abbaaa\_Xa]`[^^Q`ZZ\_\_`Z]a\_ZaU\_Z^¥[¥¥ZN^\_B  
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CACGTTCCATTGTCTGAACTAGTTGTTTCCACAATGTAGG  
+HWI-EAS443:3:100:1335:1141#0/1  
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@HWI-EAS443:3:100:1337:1334#0/1  
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+HWI-EAS443:3:100:1337:1334#0/1  
`\_Z[\_`^F¥`a\_]V\_aa\_Q¥[\_`Wa\_Y`aV\_]`]^LZ^BB  
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+HWI-EAS443:3:100:138:1225#0/1  
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+HWI-EAS443:3:100:1653:733#0/1  
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+HWI-EAS443:3:100:327:921#0/1  
aZQ¥a^]aa\_aZI^]Y````aW`b`aa`UY\_`^X`X][]B  
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+HWI-EAS443:3:100:359:1832#0/1  
¥¥`UXY[X^Y^aa]\_a\_Z]R\_WVG¥\_VbWaL¥RBBBBBBB  
@HWI-EAS443:3:100:609:704#0/1  
ACTAGTTGTTTCCACAATGTAGGACCATGAGCTTGCTGTG  
+HWI-EAS443:3:100:609:704#0/1  
aaaaa\_babaaa^`^aaa`\_^`\_^`^¥`a`\_a[a\_\_Va\_]`  
@HWI-EAS443:3:100:705:271#0/1  
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+HWI-EAS443:3:100:705:271#0/1  
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CAAGGGGGCTATAAACACCAGCCTCCCATTTCAGAATATA  
+HWI-EAS443:3:100:767:143#0/1  
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+HWI-EAS443:3:100:833:315#0/1
abaa`a`_`_a]_aaab`_`^ab¥`^aaaa__^_Z_Z`B
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+HWI-EAS443:3:100:919:996#0/1
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+HWI-EAS443:3:10:1014:560#0/1
T¥aV^a_Wabbb^]^a¥aZ^_Z[PXabYXS`TOGO]ZWZR
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+HWI-EAS443:3:10:1119:1922#0/1
aba_OV_ZV_b¥00Va_b^`a¥U^^[^PHLODVWZZU_YX
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+HWI-EAS443:3:10:1218:1581#0/1
_ab¥U¥b^`bbaa`b_ab_b`a`_`^bb__b_]`a`_`_a
@HWI-EAS443:3:10:1230:1974#0/1
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+HWI-EAS443:3:10:1230:1974#0/1
aa____`aa_`^aaZa^_^_W]__^_U]_^_W^Z_Z]]^^
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+HWI-EAS443:3:10:1319:1936#0/1
aba^`H`_`_[]aa_]a`a`HT`_Wa^¥__^_TQa]OXR[`

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+HWI-EAS443:3:10:151:1589#0/1
a`a_ba__^]Za`_a`_^`__^^]Z__Y]^Z]]ZX]Z]
@HWI-EAS443:3:10:1572:1359#0/1
GTCTGAACTAGTTGTTTCCACAATGTAGGACCATGAGCTT
+HWI-EAS443:3:10:1572:1359#0/1
aSXT[MUX¥¥[WX_0]]WGWVVXZG¥ZZXR XUWVSWSOX
@HWI-EAS443:3:10:210:1210#0/1
AGGAAATTGGAAACGGCTGCTTTGAATTTTACCAAAAATG
+HWI-EAS443:3:10:210:1210#0/1
]]¥[[^Q_U¥W_aa`LX]SXVT^^YBBBBBBBBBBBBBB
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+HWI-EAS443:3:10:55:1081#0/1
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+HWI-EAS443:3:10:684:381#0/1
ba`IaV`b[]^M¥bbba[]b[]`aabV`aaU^[[_Y]
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+HWI-EAS443:3:10:808:1937#0/1
aabY_`_`_b_baaaa¥bba]`[IZ`]0]_aa]X`TNa`a_
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+HWI-EAS443:3:10:925:196#0/1
`bbab`baa`^a__`U`__^^`[^YZ`Z_X^]R]_Z^
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+HWI-EAS443:3:10:952:816#0/1
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@HWI-EAS443:3:11:1092:788#0/1
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+HWI-EAS443:3:11:1092:788#0/1
^aba_T_]`aaaa^aZ`¥Z]`^`]]]¥^W_a_a`_a`^__
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CACGTTCCATTGTCTGAACTAGTTGTTTCCACAATGTAGG
+HWI-EAS443:3:11:1605:555#0/1
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+HWI-EAS443:3:11:1664:716#0/1
[`bbbb`_ba`baabbbbaabb]aba[^_T[]`]PZHaa_
@HWI-EAS443:3:11:271:1683#0/1
AGACTACCAGTACCAATGAACTGGCGACAGTTGAAAAGAT
+HWI-EAS443:3:11:271:1683#0/1
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+HWI-EAS443:3:11:399:1620#0/1
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@HWI-EAS443:3:11:515:79#0/1
ACACGTTCCATTGTCTGAACTAGTTGTTCCACAATGTAG
+HWI-EAS443:3:11:515:79#0/1
aabab^``^`_`^aa`_]a^Ya_^_ZX]Z_]^_Z]_
@HWI-EAS443:3:11:62:1650#0/1
TCTGAGTATTTTGGGTAGTCATAGTCCCATTTTTGACAC
+HWI-EAS443:3:11:62:1650#0/1
aaaaa_[`aaa^aaXaa¥a`¥FT^`a`a`_`Y^`_
@HWI-EAS443:3:11:726:1846#0/1
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+HWI-EAS443:3:11:726:1846#0/1
^[UHY^Y___RTa`¥Xa`VVQ``__`TO]I`a^¥S`^BB
@HWI-EAS443:3:11:822:1459#0/1
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+HWI-EAS443:3:11:822:1459#0/1
aa`_`[`a^a^`aaaZ_¥a`_`a`_`a`_`Z`_`Y`a[_`X
@HWI-EAS443:3:11:883:173#0/1
CTCCTGGGTAACACGTTCCATTGTCTGAACTAGTTGTTTC
+HWI-EAS443:3:11:883:173#0/1
abaaabaaQbaaa_```a`_`_]__^VUR[___X^]^[^]]
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+HWI-EAS443:3:11:886:1881#0/1
ZR`abV_ZZba_UXbbab][X^[`]XWOF[XP`GZUKZBB
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+HWI-EAS443:3:12:1347:963#0/1
_aaaabbU]b_bb_b`baba¥]b`Ya`b_aaaUa^aSab
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+HWI-EAS443:3:12:1712:1219#0/1
a_X_] [V[HV^U[^YP`Y[`a`^^aSSL_]LDW[YYV]Y
@HWI-EAS443:3:12:362:297#0/1
ACGTTCCATTGTCTGAACTAGTTGTTCCACAATGTAGGA
+HWI-EAS443:3:12:362:297#0/1
`V_X`]^`aZ`_^`[]__aWa`_`_`_SX¥^_Z_]W]
@HWI-EAS443:3:12:426:666#0/1
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+HWI-EAS443:3:12:426:666#0/1
^^^U_]`T^¥Y[HXI^Vbbb¥VYbX`SUZ`_a`SQH_Z`X
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CATCATTTGAAAGGTTGAGATATTTCCCAAGACAAGTTC
+HWI-EAS443:3:12:474:1653#0/1
[`UU`b_YVa`Zb_F[`^^`¥aa_ab]QOR``aaabaa¥`U
@HWI-EAS443:3:12:69:747#0/1
CCAGGAGATTTTCATCGATTATGAGGAGATAAGAGAGCAAT
+HWI-EAS443:3:12:69:747#0/1
`ba_ww]XFXSa__aZ[aa¥__^`L]¥H_¥OUX_^``PG¥

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+HWI-EAS443:3:12:864:1373#0/1
ab`aW`a[L[_a^Z`^[\`¥`b`X¥]aZZ_`aa_aVR[_
@HWI-EAS443:3:12:985:105#0/1
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+HWI-EAS443:3:12:985:105#0/1
aab_aaa`bab`_b`¥aZa¥a^aaaa`_]_R_`^`]^a^]
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+HWI-EAS443:3:13:100:995#0/1
aa`¥aaa[^a`[a_a^^`a_aa`a_`_^[R_Y_Y^[XZ
@HWI-EAS443:3:13:1128:1791#0/1
GAACTAGTTGTTTCCACAATGTAGGACCATGAGCTTGCTG
+HWI-EAS443:3:13:1128:1791#0/1
a`b¥bbb[bbba___a_babZ_baaaaZaaa^aa`_`__a
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+HWI-EAS443:3:13:260:941#0/1
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@HWI-EAS443:3:13:633:1325#0/1
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+HWI-EAS443:3:13:633:1325#0/1
aa_]QZ¥]aaaXWYF`¥`ZR]`S_aYRP^^_Z_a^NZ`SP_
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+HWI-EAS443:3:13:683:397#0/1
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+HWI-EAS443:3:13:765:78#0/1
aaa_a__¥`_^_^]_`^^Z_^_X_]__^X^W_Z^^XZ^
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+HWI-EAS443:3:13:892:46#0/1
abbaaaa_aaaaa`aaaaa¥^a]`^]bUUY_]YYYYY^
@HWI-EAS443:3:14:1307:492#0/1
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+HWI-EAS443:3:14:1307:492#0/1
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@HWI-EAS443:3:14:1474:1793#0/1
AATCGATGAAATCTCCTGGGAAACACGTTCCATTGTCTGA
+HWI-EAS443:3:14:1474:1793#0/1
V_TTZ^SXY]¥SWQXZ_Z¥aG[Qa^OHO_`S]Y^]FJ]a]]
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+HWI-EAS443:3:14:216:1472#0/1
ab`Xaabba]aaa`abaYabY[Z`aa`a`_baaLDU_SH
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+HWI-EAS443:3:14:233:1091#0/1
¥bbb`>`bab¥aab_a_bbaabJ`abaa_aab__abaa_a
@HWI-EAS443:3:14:334:1130#0/1
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+HWI-EAS443:3:14:334:1130#0/1
abaaa`aaa`Z`aa`__aaa_`aa¥`a_S_[F_a__]__`
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+HWI-EAS443:3:14:758:733#0/1
aabaaaaab_aa]_a_aaaaa]_aY__`^a_Y]X__a_aa
@HWI-EAS443:3:14:867:1868#0/1
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+HWI-EAS443:3:14:867:1868#0/1
aaaaaaaaaaaa`a_aaaZZ]b`aSMU_^`aQ[[]]NU¥NN
@HWI-EAS443:3:14:900:1826#0/1
CCC GTTATGCTTGTCTTCTAGAAGGTTAACAGAGAGTGTT
+HWI-EAS443:3:14:900:1826#0/1
```^[bV¥\_V^^]aV]Zaab\_]baa]V``Saa]VG^]`^aU  
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+HWI-EAS443:3:15:1145:313#0/1  
a`WS\_`¥`a`UN][DR¥[OTW\_Q0]I[FQ]\_\_Z`^W\_YST  
@HWI-EAS443:3:15:1525:525#0/1  
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+HWI-EAS443:3:15:1525:525#0/1  
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aaa¥^¥TG`ba¥aa`bbb``aaXV]aaaaa^`aaa\_`aa^  
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+HWI-EAS443:3:15:177:211#0/1  
a`Y`\_aa^ZU]aXS`^[aZ`\_¥][Z^`\_U\_^W\_UY]W¥\_`^  
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+HWI-EAS443:3:15:179:781#0/1  
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+HWI-EAS443:3:15:300:1722#0/1  
]XXa]a]`Y][V]`P¥S¥`¥\_`G]^ZU¥Z[^]Z`]\_0]Z  
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+HWI-EAS443:3:15:908:1202#0/1  
aabaa\_`aa``aa\_aaa\_a\_\_^aX\_`^``]\_aW[^`^¥]X

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+HWI-EAS443:3:15:954:535#0/1  
]T]RZZ\_ZaWa\_WU^V`QYSWQY\_O^WVQ[TVVQ^HT` [W  
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+HWI-EAS443:3:16:1463:1209#0/1  
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@HWI-EAS443:3:16:1557:1872#0/1  
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+HWI-EAS443:3:16:1557:1872#0/1  
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+HWI-EAS443:3:16:1619:1846#0/1  
XJ])bbb`b[bb[bb\_`V]^`^a¥a[H[J][baaVUVa` [b  
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+HWI-EAS443:3:16:1768:1494#0/1  
^T`TaX^Ybaaaba`J^ab]aaa``Z\_aYaa^a\_\_aa¥FV  
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+HWI-EAS443:3:16:367:1509#0/1  
aaYVO[¥¥W[`\_`\_\_aW]YZPW¥TPDW[^\_a` [ZZXSR[W  
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+HWI-EAS443:3:16:496:1700#0/1  
a`a[\_V¥aa`Y])\_Z\_\_a[ZG^`a[a\_]\_\_\_0]S])X\_WY  
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+HWI-EAS443:3:16:62:1016#0/1  
\_ZV\_^\_\_\_SZ\_aYZPZ^Waaaa^YV[\_\_\_V\_]WLVXPPZRV  
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+HWI-EAS443:3:16:786:1282#0/1  
]^`^¥ab`Sabbba^a^`K^aU]Raa`aa`VYa\_^\_aXa^\_V  
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+HWI-EAS443:3:16:897:1513#0/1  
ab\_\_F[[b\_bXaaababb\_\_bbaa\_\_baaaaba`abaa`\_  
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+HWI-EAS443:3:16:902:603#0/1  
aaaaa[`aaaa\_\_a\_`a^aaa\_``]aa\_^\_]`\_\_\_Y\_`\_\_  
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+HWI-EAS443:3:17:1031:693#0/1  
^X\_]\_U\_a])\_`^S\_\_U\_[BBBBBBBBBBBBBBBBBBBB  
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+HWI-EAS443:3:17:1217:2025#0/1  
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+HWI-EAS443:3:17:123:977#0/1  
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aaaa[Z^^VQ\_`aaaX\_\_aa`PZX^]`L\_`YNYZ¥\_]U][  
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+HWI-EAS443:3:17:1401:816#0/1  
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+HWI-EAS443:3:17:1694:1099#0/1  
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+HWI-EAS443:3:17:176:266#0/1  
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+HWI-EAS443:3:17:227:378#0/1  
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+HWI-EAS443:3:17:371:2020#0/1  
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+HWI-EAS443:3:17:383:158#0/1  
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+HWI-EAS443:3:17:447:1802#0/1  
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^^]\_`]]YR\_Z¥¥]¥`a`]T]RUY\_]^^¥OX¥ZTYW]RW^

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a¥a`a\_a`]b][WM]\_Y^VJ0^[WVU]Z\_V¥YRV^^Z^]  
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+HWI-EAS443:3:18:1601:669#0/1  
aa`aba\_ba`ba[aa\_``aaaaa`^\_^`aa]]a]`\_\_]aU  
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+HWI-EAS443:3:18:295:168#0/1  
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+HWI-EAS443:3:18:30:1352#0/1  
aa\_b\_aa`^aXa`\_^\_\_aa`]\_\_S\_^\_\_a\_\_`aV\_¥X^[\`  
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abb`aabbbX`bb^T^ababaa\_`\_bZZa\_] [a\_\_a\_\_S[  
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+HWI-EAS443:3:18:511:1566#0/1  
aa\_`^`¥V`aa\_aaZ[`a]a\_¥Y]aI`aa\_[]^\_\_Q\_W\_`  
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+HWI-EAS443:3:18:895:157#0/1  
a\_R`aab`\_`¥¥a\_`\_]a¥^[^¥\_`^]U[UK[]VY[Y  
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+HWI-EAS443:3:18:962:22#0/1  
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+HWI-EAS443:3:19:1151:160#0/1  
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+HWI-EAS443:3:19:1550:270#0/1  
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+HWI-EAS443:3:19:1607:763#0/1  
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+HWI-EAS443:3:19:305:1260#0/1  
aba¥`^a[`aa]aa[VaaaaaX^¥M`\_aa¥Uaa``]\_^\_^  
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+HWI-EAS443:3:19:800:874#0/1  
RW\_a^b[``\_\_b[`^bbbb\_`W`a]a`Wq]Xaa]aaVZTZ  
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+HWI-EAS443:3:19:918:206#0/1  
Yb¥`bZ]`a¥^Xa`]0\_PU```Qa````Z`\_\_Y\_X[^\_^]Z  
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+HWI-EAS443:3:20:1153:1792#0/1  
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+HWI-EAS443:3:20:1518:246#0/1  
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+HWI-EAS443:3:20:1551:1501#0/1  
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+HWI-EAS443:3:20:1680:451#0/1  
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+HWI-EAS443:3:20:432:943#0/1  
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+HWI-EAS443:3:20:946:1300#0/1  
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^a^``\_¥\_Z`\_Z\_¥U\_]L¥^^``\_][S¥Y]]T[^V]``aUG  
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+HWI-EAS443:3:21:1154:1344#0/1  
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aaa`a\_aaa`a¥b^aaa\_a^^\_a\_W`^]\_]\_^\_PT[0\_  
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+HWI-EAS443:3:21:1783:1591#0/1  
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+HWI-EAS443:3:22:1629:227#0/1  
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+HWI-EAS443:3:23:1194:1184#0/1  
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+HWI-EAS443:3:23:1309:2012#0/1  
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+HWI-EAS443:3:23:1626:1681#0/1  
\_Z¥ZZ[\_Y\_Y¥`aa`^¥`WZ]Z\_aa\_Z\_`aYI[^T[Z^]¥  
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aaaaa¥\_aaaa\_`]aaa`a\_]`Y`a\_a\_¥\_`¥`¥^¥]`  
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+HWI-EAS443:3:24:1443:1549#0/1  
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+HWI-EAS443:3:24:1497:1748#0/1  
aaaYYa\_\_SUaaaRa`a`a]V`aX`a`b`\_]`a\_a\_Z]N  
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+HWI-EAS443:3:24:1555:1868#0/1  
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+HWI-EAS443:3:24:18:1422#0/1  
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aa`\_aaa)`\_U\_a`\_`\_a`\_`\_]\_V`a`\_`\_`\_W]TT]W[  
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+HWI-EAS443:3:24:327:1601#0/1  
\_\_J¥\_b`Wa]]Sb^VR[¥`¥]]¥SUTP¥^a`Z^[ZGNTT`  
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GTTCCATTGTCTGAACTAGTTGTTTCCACAATGTAGGACC  
+HWI-EAS443:3:24:756:712#0/1  
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+HWI-EAS443:3:25:1011:176#0/1  
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+HWI-EAS443:3:25:1066:1745#0/1  
a[aZ][^URYVZ]YP[\_^[U^V^UM[UT]¥]]XYUWVWW[  
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GCCAGTTCATTGGTACTGGTAGGCTCCCTGGGGCAATCA  
+HWI-EAS443:3:25:1075:1548#0/1  
a^[`aQ^X^\_a^\_U^UU\_MMV]GS¥V]XKKT[V¥USBBBB  
@HWI-EAS443:3:25:120:922#0/1  
GTCCTACATTGTGGAAACAAGTTCAGACAATGGAACG  
+HWI-EAS443:3:25:120:922#0/1  
`T`\_aY\_ZVUa\_^\_aa`a]¥^`\_Ra\_] [U`a[U]UX`¥Y  
@HWI-EAS443:3:25:126:1207#0/1  
CTACATTGTGGAAACAAGTTCAGACAATGGAACGTGT  
+HWI-EAS443:3:25:126:1207#0/1  
a¥b```[a[``Z¥\_aab^^b\_a^a]W\_^aaa^\_aa\_ZPUY  
@HWI-EAS443:3:25:1407:411#0/1  
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+HWI-EAS443:3:25:1407:411#0/1  
`b[babb[abbbba]bbbabbbbaabbb`\_Yaaa`bbb  
@HWI-EAS443:3:25:1487:499#0/1  
TAAAAACAATGCCAAGGAAATTGGAAACGGCTGGTTTGA  
+HWI-EAS443:3:25:1487:499#0/1  
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@HWI-EAS443:3:25:223:711#0/1  
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+HWI-EAS443:3:25:223:711#0/1  
abbb`bb`¥aba`bbbbbbbab`aaaba\_aba``[``a  
@HWI-EAS443:3:25:282:1444#0/1  
CACGTTCCATTGTCTGAACTAGTTGTTCCACAATGTAGG  
+HWI-EAS443:3:25:282:1444#0/1  
\_\_\_¥\_¥\_¥Z`¥]aa¥]YQ^ZV\_¥^[`VZZ]^``W\_a¥Z¥Y  
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TTCCATTGTCTGAACTAGTTGTTCCACAATGTAGGACCA  
+HWI-EAS443:3:25:591:193#0/1  
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+HWI-EAS443:3:25:979:1204#0/1  
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@HWI-EAS443:3:26:1423:336#0/1  
CACGTTCCATTGTCTGAACTAGTTGTTCCACAATGTAGG  
+HWI-EAS443:3:26:1423:336#0/1  
`b`bbbb`abbbbbbab\_b^^`^ba`baaa`baaa`VZ  
@HWI-EAS443:3:26:1586:14#0/1  
GAACTAGTTGTTCCACAATGTAGGACCATGAGCTTGCTG  
+HWI-EAS443:3:26:1586:14#0/1  
a\_a^aaa^aaaa^S`W`\_aa^`¥\_Y]\_\_¥^^R^^\_X\_\_  
@HWI-EAS443:3:26:1746:1387#0/1  
GTAACACGTTCCATTGTCTGAACTAGTTGTTCCACAATG  
+HWI-EAS443:3:26:1746:1387#0/1  
a\_aa\_b`aa`\_`aaaa\_\_a¥^\_\_`]Z`a`\_`^^^Z^`^^  
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+HWI-EAS443:3:26:288:982#0/1  
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CTCCTGGGTAACACGTTCCATTGTCTGAACTAGTTGTTTC  
+HWI-EAS443:3:26:304:803#0/1  
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@HWI-EAS443:3:26:322:2010#0/1  
ATTCTGCGTGCTTTCAGGTCGGCTGCATATCCTGACCCC  
+HWI-EAS443:3:26:322:2010#0/1  
]X]a\_XR\_RW\_\_a`W\_a\_HKV]N\_U]^aWBBBBBBBBBBB  
@HWI-EAS443:3:26:812:1749#0/1  
CAGCAAGCTCATGGTCCTACATTGTGGAAACAACTAGTTC  
+HWI-EAS443:3:26:812:1749#0/1  
V^abb`baaa`Y^\_\_bbbbba`\_\_`[bb`]`ba\_b`\_a]  
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+HWI-EAS443:3:26:836:386#0/1  
aaaa```a`aV\_a^`^a][\_¥]Y]\_Z]`\_^XW\_Y¥Z\_^W^  
@HWI-EAS443:3:27:1275:1088#0/1  
TGCTATTTCCGGCTTGAACCTTCTGCTGTATCTTGGTGTC

+HWI-EAS443:3:27:1275:1088#0/1  
`aabaabaaa`a`ba\_]a`aa]\_a`aa^`aa¥X^]]  
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+HWI-EAS443:3:27:1367:985#0/1  
abababbb`bb\_b`aaaa\_aaaa\_\_aaaa\_a\_a`aa\_aa]  
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ACACGTTCCATTGTCTGAACTAGTTGTTTCCACAATGTAG  
+HWI-EAS443:3:27:1416:1704#0/1  
X`]XaU`^a``[[P¥b\_W^U[¥0^`¥¥aXOX^0^`V\_Z` [  
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+HWI-EAS443:3:27:1650:1306#0/1  
aaa`aaaaaa`a^`\_\_aa¥a\_a^\_\_\_`a^]\_^¥\_`^¥^^`\_  
@HWI-EAS443:3:27:1688:610#0/1  
GGGGGAGGACAGGGATGGTAGATGGATGGTACGGTTATCA  
+HWI-EAS443:3:27:1688:610#0/1  
\_aabZD[]aaaabbaa[UWaaaYabZZaaG\_QaZZaZXG¥  
@HWI-EAS443:3:27:190:1198#0/1  
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+HWI-EAS443:3:27:190:1198#0/1  
a]bbbbabaaaa\_a[a`a`aaaaaa^aaaaaa^`aaaa  
@HWI-EAS443:3:27:242:1475#0/1  
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+HWI-EAS443:3:27:242:1475#0/1  
]¥\_Z¥`YVX¥¥\_\_YXY^\_XR][W\_\_Z¥[\_a`KZ¥VO[Q^ [  
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GGCTGGACCCTGGGAAATCCAGAGTGTGAATCACTCTCCA  
+HWI-EAS443:3:27:292:546#0/1  
`b`\_^a\_I\_a``]]a[\_aa`X`a`P][^a^]N\_^^[aWK\_  
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CACGTTCCATTGTCTGAACTAGTTGTTTCCACAATGTAGG  
+HWI-EAS443:3:27:299:279#0/1  
abbaaababaaaa`bbaaaaab\_abaaaaaa\_a```Xa]`  
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TGTGGGACATCAAGATACAGCAAGAAGATCAAGCCGGAA  
+HWI-EAS443:3:27:446:1588#0/1  
[`] [URH] []XZ]`]^H]\_a]aaaaa¥HXaUZU^\_HV`W  
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+HWI-EAS443:3:27:629:1157#0/1  
]b\_Y]]U`\_¥`KU`\_W\_]¥W[^`a¥Q\_[ZS[]a[aYXNU[  
@HWI-EAS443:3:27:796:81#0/1  
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+HWI-EAS443:3:27:796:81#0/1  
¥aSV¥a]aXbba]aa\_`\_^Pba``\_X`¥FQUVHRZ\_XRTa  
@HWI-EAS443:3:27:798:71#0/1  
AAAAACAATGCCAAGGAAATTGGAAACGGCTGGTTTGAA  
+HWI-EAS443:3:27:798:71#0/1  
a^^]]a]`b`b`\_XZaaW\_\_aa\_`\_\_`\_¥][`BBBBBBB

@HWI-EAS443:3:28:1109:1997#0/1  
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+HWI-EAS443:3:28:1109:1997#0/1  
`bba\_ab\_b^`\_Z\_]ba\_`a\_\_aa^Y`^\_a\_a`\_YXa¥X  
@HWI-EAS443:3:28:1198:1271#0/1  
AACAAATGCCAAGGAAATTGGAAACGGCTGTTTGAATTTT  
+HWI-EAS443:3:28:1198:1271#0/1  
\_]¥aY^b]^Z0Ya¥a\_a^`]NT`aaaZX¥MFSTRXPZXXZ  
@HWI-EAS443:3:28:1459:1093#0/1  
TGGCTGGATCCTGGGAAATCCAGAGGGTGAATCACTCTCC  
+HWI-EAS443:3:28:1459:1093#0/1  
aa`abaaa[¥]aa]¥^\_a¥¥]U]VN\_¥\_V\_^U`VU^XXS  
@HWI-EAS443:3:28:161:183#0/1  
CTCCTGGGTAACACGTTCCATTGTCTGAACTAGTTGTTTC  
+HWI-EAS443:3:28:161:183#0/1  
aaaaaaaa¥aa\_aaaa`aaa\_`\_^`\_`YX¥`\_\_Z\_\_^\_] [  
@HWI-EAS443:3:28:277:233#0/1  
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+HWI-EAS443:3:28:277:233#0/1  
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@HWI-EAS443:3:28:278:1724#0/1  
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+HWI-EAS443:3:28:278:1724#0/1  
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+HWI-EAS443:3:28:290:1508#0/1  
ab`baZ`¥G¥¥¥`\_S\_\_a\_¥TV`aa^a`\_TZX^OY[XHK  
@HWI-EAS443:3:28:297:912#0/1  
CACGTTCCATTGTCTGAACTAGTTGTTTCCACAATGTAGG  
+HWI-EAS443:3:28:297:912#0/1  
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@HWI-EAS443:3:28:303:520#0/1  
CTCCTGGGTAACACGTTCCATTGTCTGAACTAGTTGTTTC  
+HWI-EAS443:3:28:303:520#0/1  
abaaabaaZbaabaa\_abaaaa\_aaaaa`\_a`\_a\_¥^\_  
@HWI-EAS443:3:28:410:950#0/1  
AACACGTTCCATTGTCTGAACTAGTTGTTTCCACAATGTA  
+HWI-EAS443:3:28:410:950#0/1  
abab^]]][a\_b`]^`^````a[¥Q`[\_\_\_]^`\_\_[U¥Z]ZZ\_  
@HWI-EAS443:3:28:555:1035#0/1  
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+HWI-EAS443:3:28:555:1035#0/1  
a`YR\_aZXLZ`Wa\_[^a\_XVXR][ZZ^`\_VY\_RR]T¥R[S  
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+HWI-EAS443:3:28:619:327#0/1  
a\_a\_^\_]Y\_]`\_\_^[[[\_[V^\_]^\_]`]]]]^^VYVY^  
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CTCCTGGGTAACACGTTCCATTGTCTGAACTAGTTGTTTC

+HWI-EAS443:3:28:64:1441#0/1  
a`aa¥¥¥^Vaaa\_`\_^a``\_\_[S[^Z¥]`¥ZV[ZV[]¥W  
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GAACTAGTTGTTTCCACAATGTAGGACCATGAGCTTGCTG  
+HWI-EAS443:3:28:934:1975#0/1  
¥aT^a\_W\_`aa]bbbaab\_\_Za]`a\_aa`\_aYa`^`]`a  
@HWI-EAS443:3:28:942:947#0/1  
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+HWI-EAS443:3:28:942:947#0/1  
aabaaaa\_aaaa[`aa\_^\_a^^a\_\_\_\_`]aa^^`\_Y\_[^]  
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+HWI-EAS443:3:29:1657:1736#0/1  
]X]```aaa\_]¥VKXR¥[^`SUUYQSYMZ]aWOXHT]VU  
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+HWI-EAS443:3:29:316:131#0/1  
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+HWI-EAS443:3:29:64:1928#0/1  
a\_ab]^[XVaaaaa]]\_aa`^\_¥Y\_\_ZP`\_[VWVY]V]Y\_  
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+HWI-EAS443:3:29:698:535#0/1  
aaaa`aaaRPa]^^`\_`a`\_\_aa`]a`a^^`\_a`\_\_^]`  
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ACGTTCCATTGTCTGAACTAGTTGTTTCCACAATGTAGGA  
+HWI-EAS443:3:29:749:1307#0/1  
a\_\_\_\_`aa^WQ\_G\_\_aa\_\_^^aV¥[^]^XYI¥\_]V]0¥]]B  
@HWI-EAS443:3:29:776:1763#0/1  
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+HWI-EAS443:3:29:776:1763#0/1  
a[b`WZY^`aa`b\_aa^V`[a][\_V]Va\_N]\_aaWR]¥V  
@HWI-EAS443:3:29:918:105#0/1  
GCAAGCTCATGGTCCTACATTGTGGAAACAACTAGTTCAG  
+HWI-EAS443:3:29:918:105#0/1  
aaabb\_[I[baa]`\_a`Xaaa`aa`a`¥`\_X\_aa^\_^\_  
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+HWI-EAS443:3:2:123:419#0/1  
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@HWI-EAS443:3:2:1252:434#0/1  
AAAGTCTCTATCAGAATGCAGCTGCATATGTTTTTGTGGG  
+HWI-EAS443:3:2:1252:434#0/1  
`P]]L]a]¥Q\_KZ^V^¥aXP`bN^Y]W¥[SX]]\_] ^G[\_\_\_  
@HWI-EAS443:3:2:489:1526#0/1  
AATCACTCTCCACAGCAAGCTCATGGGCCTACATTGTGGA  
+HWI-EAS443:3:2:489:1526#0/1  
aa\_Y\_^\_^\_WF`XaaPaa^¥]]SY`\_G`]\_\_X]^O\_LSS]



@HWI-EAS443:3:2:975:296#0/1  
CACGTTCCATTGTCTGAACTAGTTGTTCCACAATGTAGG  
+HWI-EAS443:3:2:975:296#0/1  
aa`\_`ba^aaaa\_\_`a[X^aaa\_`aaabRT\_V^\_^\_V]\_¥  
@HWI-EAS443:3:30:1047:2007#0/1  
ATCTCCTGGGTAACACGTTCCATTGTCTGAACTAGTTGTT  
+HWI-EAS443:3:30:1047:2007#0/1  
aaa\_a\_\_a`Z`aaa]\_^\_^`^^]`^]\_^]\_^\_Z]]X^  
@HWI-EAS443:3:30:108:1134#0/1  
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+HWI-EAS443:3:30:108:1134#0/1  
]aaZaa\_aaa]`a\_Za`^[aW\_]a^\_[Z\_`a\_\_\_\_\_[-^X\_  
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+HWI-EAS443:3:30:1250:1125#0/1  
aa^aW^^abab`aaaaa]\_`aaaY]\_\_[¥W`aZa``¥^^\_  
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CGTGGTAGTCCAAAGTTCTTTTCATTTTACAATAGAACCAA  
+HWI-EAS443:3:30:1261:1853#0/1  
U\_WV\_J^X¥a\_PXY`a¥WUZ`baVR\_\_FL[¥MXY¥]STPM  
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+HWI-EAS443:3:30:1469:1024#0/1  
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@HWI-EAS443:3:30:1525:558#0/1  
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+HWI-EAS443:3:30:1525:558#0/1  
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@HWI-EAS443:3:30:908:477#0/1  
ACGTTCCATTGTCTGAACTAGTTGTTCCACAATGTAGGA  
+HWI-EAS443:3:30:908:477#0/1  
a`a```aa\_`a\_X^^^a\_[WZ^]\_^]]^`\_`\_ZUU^[LY  
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+HWI-EAS443:3:30:961:86#0/1  
aa¥R\_] ^PYY]Y^ab¥V¥a^`¥[]`\_`\_W^^V]W¥XUZ  
@HWI-EAS443:3:31:1143:1042#0/1  
GGTAAATGTAACATTGCTGGCTGGATACTGGGAAATCCAG  
+HWI-EAS443:3:31:1143:1042#0/1  
ab\_babZRR`X^TY\_bUb[`YJ¥`\_`FZ¥Y`]MZWQBBBB  
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+HWI-EAS443:3:31:1431:308#0/1  
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+HWI-EAS443:3:31:1492:255#0/1  
abaaa[`a\_\_`b^aaaa\_a`a`Xaa`a]a\_a^\_a^a`X  
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+HWI-EAS443:3:31:1515:1951#0/1  
` ` `¥babab[babaa`bbaWaaZTY\_baaaaaaa`T\_H]\_  
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TGCTGACCAACAAAGTCTCTATCAGAATGCAGATGAATAT  
+HWI-EAS443:3:31:1700:985#0/1  
\_abbU\_aaaa]`aaU`Raababab`a\_\_^]` `Z¥V`ab`  
@HWI-EAS443:3:31:456:273#0/1  
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+HWI-EAS443:3:31:456:273#0/1  
aba` [P[^aV^UX\_\_[^W¥[\_SUTT[TYS¥VV^]]Y^YX  
@HWI-EAS443:3:31:480:92#0/1  
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+HWI-EAS443:3:31:480:92#0/1  
aa¥X`Y`bYFWaa\_^\_a^OM]ULZYNX^\_]NNSTYBBBBB  
@HWI-EAS443:3:31:522:941#0/1  
GAAATTGGAACGGCTGCTTTGAATTTTACCAAAAATGCG  
+HWI-EAS443:3:31:522:941#0/1  
^` ` `b\_b^` `abbbaaZXP\_ZRWPW¥¥ZWR\_\_IPQWDDUW  
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CTGAACTAGTTGTTTCCACAATGTAGGACCATGAGCTTGC  
+HWI-EAS443:3:31:895:1222#0/1  
ab` \_\_ `a]a]baaaaaaabaa^¥a`^ `a\_¥a\_\_aaa` \_\_  
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CGGCTCTACTAGTGTCCAGTAATAGTTCCTTCTCCCTTCT  
+HWI-EAS443:3:32:1025:1294#0/1  
a][aaa[a\_VV]S¥\_\_^Y^G^[MJ¥VPLFZaT^T\_XLT\_W  
@HWI-EAS443:3:32:1521:1450#0/1  
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+HWI-EAS443:3:32:1521:1450#0/1  
ab`bbbabbbb\_\_ba^\_aabaa`b`bab[Y`^[\_ `S`aaa  
@HWI-EAS443:3:32:1536:496#0/1  
AACACGTTCCATTGTCTGAACTAGTTGTTTCCACAATGTA  
+HWI-EAS443:3:32:1536:496#0/1  
a\_` \_ `a¥a`\_]Z^]XTYSV^^\_XYU^^^`^ZXWJQP` `V`  
@HWI-EAS443:3:32:1634:594#0/1  
AGGAGATTTTCATCGATTATGAGGAGCTAAGAGAGCGATTG  
+HWI-EAS443:3:32:1634:594#0/1  
[QZ\_b¥bba`\_bab[ `b` \_ `¥bb\_aY¥a]aaaa¥][aaaa  
@HWI-EAS443:3:32:267:1134#0/1  
GAGCAATTGAGCTCAGTGTCTGTCATTTGAAAGTTTGAGA  
+HWI-EAS443:3:32:267:1134#0/1  
a^H\_\_\_\_\_XOW]` ` \_WIXG^` [^^\_Wa\_`ZPTYW[^X`¥]  
@HWI-EAS443:3:32:304:1243#0/1  
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+HWI-EAS443:3:32:304:1243#0/1  
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@HWI-EAS443:3:32:323:335#0/1  
CACGTTCCATTGTCTGAACTAGTTGTTTCCACAATGTAGG  
+HWI-EAS443:3:32:323:335#0/1  
aa\_a¥a`a` ` `aZ\_a]`aX\_\_YV]\_Y\_^\_]^^^X[Y^^[

@HWI-EAS443:3:32:623:1853#0/1  
GAACTAGTTGTTTCCACAATGTAGGACCATGAGCTTGCTG  
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+HWI-EAS443:3:33:1225:1145#0/1  
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+HWI-EAS443:3:33:1291:324#0/1  
Y^¥¥Y^¥T`bb`a`\_b`abbb¥bba^0\_a`^SJJ]¥^^ZY\_  
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+HWI-EAS443:3:34:513:1352#0/1  
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a\_``¥`aa]G[b\_aa`ba\_a]`aa^]^\_a`aa^\_[¥V\_]`^  
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+HWI-EAS443:3:35:926:584#0/1  
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+HWI-EAS443:3:37:1122:1312#0/1  
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a`\_\_a`¥a`a`\_]Tq]aZ[]W][\_¥^ZaZa\_\_]\_N\_]Y  
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`\_^a`]Z\_UNW¥\_V¥V¥V¥\_\_X\_a`\_bTazY\_aW]¥UY  
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+HWI-EAS443:3:37:1398:1342#0/1  
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+HWI-EAS443:3:37:1518:1091#0/1  
¥X[[\_]S¥DY[UT[RRY`¥\_X\_¥Y[]QXQ\_] [V[VLO  
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+HWI-EAS443:3:37:152:1748#0/1  
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+HWI-EAS443:3:38:246:1426#0/1  
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+HWI-EAS443:3:39:429:1888#0/1  
aa`a\_a]``\_aaaaa\_a\_]`a`]aaa]]Z[X]]^Z^]]Z  
@HWI-EAS443:3:39:479:1560#0/1  
GATGGGTTCTGGACATTTGGACTTACAATGCCGAACGT  
+HWI-EAS443:3:39:479:1560#0/1  
a]a]a`aabb`a[ab]`aa\_\_baa\_X\_aaaa]]aaa`a\_¥  
@HWI-EAS443:3:39:500:1407#0/1  
CACGTTCCATTGTCTGAACTAGTTGTTTCCACAATGTAGG  
+HWI-EAS443:3:39:500:1407#0/1  
a¥b\_a\_baY[]I^T]aabX\_X^\_aa\_a`\_`\_aR]]]a]^N]  
@HWI-EAS443:3:39:570:12#0/1  
AAAACAATGCCAAGGAAATTGGAAACGGCTGGTTTGAATT  
+HWI-EAS443:3:39:570:12#0/1  
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@HWI-EAS443:3:39:96:1416#0/1  
ACATTGTGGAACAACACTAGTTCAGACAATGGAACGTGTTA  
+HWI-EAS443:3:39:96:1416#0/1  
a``[MYXRTSS\_`[```]XQ\_aa]aaaUO[LS¥SRTUTV[  
@HWI-EAS443:3:3:1197:1380#0/1  
TGCCGGTTTCATTGAAGGGGGTGGACAGGGATGGAAGAT  
+HWI-EAS443:3:3:1197:1380#0/1  
a`^RaaMUbaaabaUZ\_RbaU\_Ga]¥YZaa\_]Q`BBBBBB  
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CACGTTCCATTGTCTGAACTAGTTGTTTCCACAATGTAGG

+HWI-EAS443:3:3:1263:1691#0/1  
W¥abbRW[bbVb^^U^`^`abbbba]aa\_UYaV`aTYNZZ^  
@HWI-EAS443:3:3:134:1657#0/1  
GAAATTGGAAACGGCTGCGTTGAATTTTACCACAAATGCG  
+HWI-EAS443:3:3:134:1657#0/1  
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+HWI-EAS443:3:3:1458:1505#0/1  
¥ab\_abaabbbbbb`bab\_a`b\_ababab^`^`\_abI[aa  
@HWI-EAS443:3:3:1587:1570#0/1  
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+HWI-EAS443:3:3:1587:1570#0/1  
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+HWI-EAS443:3:3:251:586#0/1  
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+HWI-EAS443:3:3:294:815#0/1  
abbbbaa`babbbb^a[[`\_bbb`baa`a]¥aW]aa`aa`\_  
@HWI-EAS443:3:3:373:387#0/1  
CAACAAAGGCTCTATCAGAATGCAGATGCATATGTTTTTG  
+HWI-EAS443:3:3:373:387#0/1  
]`\_^`\_¥SHPaZ]bbZ\_¥¥S]TOW\_XUYDYbaaaZ^W[UJ  
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ACTTCTTGCTGTATCTTGATGGCCCCACAAAAACATATGC  
+HWI-EAS443:3:3:498:1684#0/1  
ZLWQ^`\_Raab¥^Z[aaaaZUGa`Ya\_\_¥`a[a`\_^````\_  
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+HWI-EAS443:3:3:562:1323#0/1  
ab]aa[]aa\_a`HX`¥Y`]^`^[Ka]W]\_YY¥U^a\_]W]^B  
@HWI-EAS443:3:3:946:918#0/1  
GACAAGTTGTATTGCAATCGTGGAGTGGTGTATCTGAAAT  
+HWI-EAS443:3:3:946:918#0/1  
]N\_Y¥[^S[GWP¥X¥W\_¥T[Uaa^RZa`RHF[UFMVU^BB  
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CTCCTGGGTAACACGTTCCATTGTCTGAACTAGTTGTTTC  
+HWI-EAS443:3:3:992:638#0/1  
^ab[abbba^V\_b]`T\_^]^V`ba`baa`G`ab\_bb¥\_XO  
@HWI-EAS443:3:40:1034:1453#0/1  
GAACTAGTTGTTTCCACAATGTAGGACCATGAGCTTGCTG  
+HWI-EAS443:3:40:1034:1453#0/1  
a\_[\_\_\_\_`ZRZN`¥^YaYZ\_]PIZ\_^Va^UYQ\_S[WSWWQ¥  
@HWI-EAS443:3:40:1047:274#0/1  
CACGTTCCATTGTCTGAACTAGTTGTTTCCACAATGTAGG  
+HWI-EAS443:3:40:1047:274#0/1  
abZT]ab`LXa[`a\_a\_aaaa`]S`HU\_\_`a``LSUDX\_]`

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+HWI-EAS443:3:40:1124:964#0/1  
ab]]YXRYQ]NWVZW^¥OWXY^^]T¥G¥WRWTFRO` [PVP  
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+HWI-EAS443:3:40:1431:813#0/1  
aZ`a^]¥\_\_` `[[`W¥Y\_\_\_Y\_`]^W[`V]Y^\_SU¥[]  
@HWI-EAS443:3:40:145:1788#0/1  
CAAGAAGTTCAAGCCGAAATAGCAATACGACCCAAAGTG  
+HWI-EAS443:3:40:145:1788#0/1  
a\_bab¥baabba\_bb` ]\_bbbbb\_\_IZbbba\_L]]Va  
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+HWI-EAS443:3:40:1496:479#0/1  
ab\_ba[`bb\_[\_NZ`aP^`^W\_Saba\_a\_XVXMM[ZMZV  
@HWI-EAS443:3:40:1727:962#0/1  
ACTTCTTGCTGTATCTTGATGTCCCCACAAAACATATGC  
+HWI-EAS443:3:40:1727:962#0/1  
aa^]YV^aZX`¥¥]X¥` `][^¥` [WPLYJ][UU[ZYYXP^X  
@HWI-EAS443:3:40:1786:620#0/1  
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+HWI-EAS443:3:40:1786:620#0/1  
Wa\_\_\_\_`Y`aa¥`aa`a`a]aUY\_bb^^LV^abZa`a  
@HWI-EAS443:3:40:180:761#0/1  
CTTCCTCTGAGTATTTTGGGTAGTCATACGTCCCATTTTT  
+HWI-EAS443:3:40:180:761#0/1  
aabababb\_^bb¥bbaabab[aa`bbU\_H`bb]R]abaa  
@HWI-EAS443:3:40:407:1527#0/1  
AGCCAGTTAAAAACAATGCCAAGGACATTGGAACGGCT  
+HWI-EAS443:3:40:407:1527#0/1  
^aba` `[aba\_Z\_aaa`aba`^a\_]NZ[SOW`Sa`]\_Y  
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+HWI-EAS443:3:40:633:1709#0/1  
\_\_¥YSX]^`^VQ]]\_`ab` [[XFQ\_[¥M`IS]Z]JQ[GQSV  
@HWI-EAS443:3:40:822:1227#0/1  
CTCGTCAATGGCATTCTGGGTGCTTTCAGGTCGGCTGCA  
+HWI-EAS443:3:40:822:1227#0/1  
aW`bQX[^`aabb]^`^a¥DU]^`\_`W^X]\_W\_[VaW\_XN  
@HWI-EAS443:3:40:846:1047#0/1  
CAGGGATGGTAGATGGATGGTACGGTTATCACCCCTAAAA  
+HWI-EAS443:3:40:846:1047#0/1  
¥¥¥[`¥\_RMLZZ[YZ^ZZa^`aX¥^QJVYP\_¥FFRROSYX  
@HWI-EAS443:3:42:1248:1539#0/1  
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+HWI-EAS443:3:42:1248:1539#0/1  
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+HWI-EAS443:3:42:1320:732#0/1  
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GCCGGTTTCATTGAAGGGGGGGGACAGGGATGGTAGATG  
+HWI-EAS443:3:42:136:145#0/1  
`b^aT^`¥T]^PQS\_]^^SNQVSWP^SXSS¥WSU¥UG[  
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CACGTTCCATTGTCTGAACTAGTTGTTCCACAATGTAGG  
+HWI-EAS443:3:42:1472:46#0/1  
\_abb`^^ZV\_bb\_abb^^abababb¥b^\_[¥aa`a`W\_\_a  
@HWI-EAS443:3:42:1604:170#0/1  
GCCGGGAGACAATATAACATTTCGAAGCAACTGGAAATCTA  
+HWI-EAS443:3:42:1604:170#0/1  
aaaaaab\_\_aaa\_a`\_`a`\_]a\_^`\_^]\_\_^]^[\_^]  
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+HWI-EAS443:3:42:1736:321#0/1  
abbabbbabbb`\_`\_bbSFWaUNUR]a`MFU^HZ]\_RQLSV  
@HWI-EAS443:3:42:1758:499#0/1  
GTCCTCGTGCTATGGGTCATTCACCATCCATCTACTAGTG  
+HWI-EAS443:3:42:1758:499#0/1  
\_P\_]`^]^^a``¥`YK[[]^S\_U^\_[^Z^[\_^RZRZZ  
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+HWI-EAS443:3:42:234:1364#0/1  
`\_\_[\_]¥\_^YS\_¥][`Z]¥U]ZQ]^UO¥]XQTTYXV¥  
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GCTTCCTCTGAGTATTTTGGGTAGTCTTAAGTCCCATTTT  
+HWI-EAS443:3:42:374:1093#0/1  
aaaaaaa]^Z^`^aaaa`a`R`]Z`aaa\_\_^a¥[Z[\_^a  
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+HWI-EAS443:3:42:510:1983#0/1  
[\_`^^¥VW\_`¥^MW\_aa`\_TFZQQZWXFY¥YIN[[]¥[YYU  
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ACACGTTCCATTGTCTGAACTAGTTGTTCCACAATGTAG  
+HWI-EAS443:3:42:728:655#0/1  
aaaaa`]aZ^aaa^\_a`\_\_^^a^`a`\_`\_]UWU]\_T[[  
@HWI-EAS443:3:42:783:1698#0/1  
CTAGTTGTTCCACAATGTAGGACCATGAGCTTGCTGTGG  
+HWI-EAS443:3:42:783:1698#0/1  
aaa^Waa\_aaabaaa`ab\_b]U`\_\_aa`aa`\_`^^`\_^\_Y  
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+HWI-EAS443:3:42:787:73#0/1  
a`^^^baa`]aaa`XX`b`a``aa`\_a``\_`[¥^V¥`[\_V^  
@HWI-EAS443:3:43:1004:198#0/1  
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+HWI-EAS443:3:43:1004:198#0/1  
`bbbbbbbbb`baba`aaaa`aa`aa\_ba^aaa`\_a]a\_\_\_\_



+HWI-EAS443:3:44:21:1713#0/1  
abaabaa^aaaaa¥Z¥a\_]a^]XV^Y\_\_`\_[Z[a\_[ZS  
@HWI-EAS443:3:44:453:13#0/1  
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+HWI-EAS443:3:44:453:13#0/1  
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+HWI-EAS443:3:44:488:912#0/1  
a^\_`aaaa]\_a^`aa\_`[`aa¥\_a\_`a`a\_\_a`^[P¥X[Y  
@HWI-EAS443:3:44:657:26#0/1  
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+HWI-EAS443:3:44:657:26#0/1  
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@HWI-EAS443:3:45:1083:2013#0/1  
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+HWI-EAS443:3:45:1083:2013#0/1  
aaa^YV]aa`\_ZVaQ\_`a[DU\_]\_`^W\_]`Z`\_]\_\_V¥^\_  
@HWI-EAS443:3:45:1129:273#0/1  
ATCTCGCCAATGGCATTCTGTGTGCTCTTCAGGTGGCTG  
+HWI-EAS443:3:45:1129:273#0/1  
ZS^``[DRUaZN]aXX^XaVPOPXMZSZa\_Z`BBBBBBBB  
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+HWI-EAS443:3:45:127:1783#0/1  
aa]`¥[SW[Z`SaY]`ULWZWZ[[US¥V\_[]U]]X][MZ\_  
@HWI-EAS443:3:45:129:442#0/1  
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+HWI-EAS443:3:45:129:442#0/1  
abba¥ZX\_XZbb[b`a¥\_Za[b¥S``X\_`P`\_[]XDY[a\_  
@HWI-EAS443:3:45:1571:569#0/1  
CAAGCTCATGGTCCTACATTGTGGAAACAAGTTCAGA  
+HWI-EAS443:3:45:1571:569#0/1  
aaaaaa¥aaba^`aaaa`a`a]a```a]a[[\_\_`]X\_a\_  
@HWI-EAS443:3:45:1667:1316#0/1  
GAAACAAGTTCAGACAATGGAACGTGTTACCCAGGAG  
+HWI-EAS443:3:45:1667:1316#0/1  
aaaa\_ba`¥aa^\_\_aaa\_``\_`^R\_]\_YXW^^]]W]^TQX  
@HWI-EAS443:3:45:1710:897#0/1  
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+HWI-EAS443:3:45:1710:897#0/1  
a\_ab`\_Y\_T\_a`a¥ZYW]¥¥]ZWUX``a\_¥TL¥][[N[[R  
@HWI-EAS443:3:45:310:1346#0/1  
AAACAAGTTCAGACAATGGAACGTGTTACCCAGGAGA  
+HWI-EAS443:3:45:310:1346#0/1  
^\_Z``]Y\_U¥¥\_a`^a`\_`a`\_]`[¥]\_\_]YS^^`^`]  
@HWI-EAS443:3:45:321:662#0/1  
GCCCAATCATGACTCGAACAAAGGTGTAACGGCAGGATGT  
+HWI-EAS443:3:45:321:662#0/1  
ab`^``\_aa^aZ]``a\_¥LZ^`aaWq]\_\_\_\_`BBBBBBBB

@HWI-EAS443:3:45:455:1219#0/1  
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+HWI-EAS443:3:45:455:1219#0/1  
aabbabb\_bbbbababbbbabab`baabb`aaTbaaa\_`\_a  
@HWI-EAS443:3:45:675:1867#0/1  
ATCTTTTCAATAACAGAATTTACTTTGTTAGGAATCTCGT  
+HWI-EAS443:3:45:675:1867#0/1  
Y[`R[W]aaa^a¥Q¥```ZP\_a\_`ZW\_WY^SFZ]aUYXXW  
@HWI-EAS443:3:45:829:1282#0/1  
ATCTCCTGGGTAACACGTTCCATTGTCTGAACTAGTTGTT  
+HWI-EAS443:3:45:829:1282#0/1  
aaa\_UZ¥`aX0^a\_aa\_]`^U^\_YWQPS]]]Q^]\_VZXU]  
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+HWI-EAS443:3:45:844:1244#0/1  
abbaabbbbaabb`aab`aaaaaaaaab]a\_a`\_aaaa\_W  
@HWI-EAS443:3:46:1102:274#0/1  
CTGACAAGTTGTAAGTCAATCGTGGACTGGTGTATCTGAA  
+HWI-EAS443:3:46:1102:274#0/1  
]abba`V`a\_``aabb\_bb``aWaa\_abb^b`aaZ\_b`\_  
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GAACGTGTTACCCAGGGATTTTCATCGATTATGAGGAGCT  
+HWI-EAS443:3:46:1245:1146#0/1  
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+HWI-EAS443:3:46:1399:480#0/1  
a^`\_WY^][\_]\_XY`XVY\_]¥[[XX^T]Y]^X¥ZX^^  
@HWI-EAS443:3:46:1667:268#0/1  
GGATATGCAGCCGACCTGAAGATCACACAGAATGCCATTG  
+HWI-EAS443:3:46:1667:268#0/1  
ab\_^`[^`^`aU`]^\_\_\_\_]U]XXTZUZRX¥]XXTSQ]XW  
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+HWI-EAS443:3:46:235:1925#0/1  
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AACACGTTCCATTGTCTGAACTAGTTGTTTCCACAATGTA  
+HWI-EAS443:3:46:447:1213#0/1  
aXaa\_\_G]aaa\_ZVRZ\_a^`^aa^M^^]\_\_^\_`[^`^WNV^  
@HWI-EAS443:3:46:557:785#0/1  
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+HWI-EAS443:3:46:557:785#0/1  
abbabbbab\_\_baababbba`bbbabbabbaaaababab^  
@HWI-EAS443:3:46:599:932#0/1  
GAAATTGGAAACGCCTGCTTTGAATTTTACCACAAATGCG  
+HWI-EAS443:3:46:599:932#0/1  
\_a`bbbbbbbaaa`aba\_abbaabaaaa\_aa`aaaa`^a  
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+HWI-EAS443:3:46:614:1241#0/1  
T\_`b`bb`¥`^YPYWaab¥a`Zaab]`aRF^¥` ]\_  
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+HWI-EAS443:3:47:1647:414#0/1  
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+HWI-EAS443:3:47:1691:1500#0/1  
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+HWI-EAS443:3:47:620:877#0/1  
Zaaaa\_aa[ZT¥aaa\_a`\_a^ZW\_\_]\_\_Z`¥¥S`\_O\_YV  
@HWI-EAS443:3:47:723:850#0/1  
ACACGTTCCATTGTCTGAACTAGTTGTTCCACAATGTAG  
+HWI-EAS443:3:47:723:850#0/1  
`bb^b\_`bbbaX^]Y\_bZX]\_¥¥]`\_^]QWY¥a`\_¥X]a  
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CACGTTCCATTGTCTGAACTAGTTGTTCCACAATGTAGG  
+HWI-EAS443:3:47:814:741#0/1  
ababaa¥abaaa`\_b`\_a\_a\_a[aZ]a`[\_^¥]\_\_¥^[]\_  
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AACACGTTCCATTGTCTGAACTAGTTGTTCCACAATGTA  
+HWI-EAS443:3:47:898:1359#0/1  
aaaaab`abaa\_a¥`\_a`\_`[\_`\_¥aa`aa\_^]\_\_\_]\_[-  
@HWI-EAS443:3:48:1223:672#0/1  
ACGTTCCATTGTCTGAACTAGTTGTTCCACAATGTAGGA  
+HWI-EAS443:3:48:1223:672#0/1  
a```^]¥TZa\_[X^Y^^[XXYX\_^]a]U¥ZS\_[¥^RXVVU  
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AAAATTCAAAGCAGCCGTTTCCAATTCCCTTGGCATTGTT  
+HWI-EAS443:3:48:1642:186#0/1  
`[]\_VVa`\_\_a\_^¥^]a\_\_\_\_]a]^VFRQYTQQMIMX^V  
@HWI-EAS443:3:48:432:593#0/1  
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+HWI-EAS443:3:48:432:593#0/1  
aa````b`a^]`aaaaZaa`W[^]^¥PXEX[YaY`a[]\_  
@HWI-EAS443:3:48:763:1558#0/1  
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+HWI-EAS443:3:48:763:1558#0/1  
aaaaaaaaaababaaaa`Raaa`\_``\_\_`aa`Yaa^a  
@HWI-EAS443:3:48:989:1635#0/1  
AGGAAATTTTCATCGATTATGAGGAGCTAAGAGAGCAATTG  
+HWI-EAS443:3:48:989:1635#0/1  
Y]\_a`^`b]^`^b\_aba]aaVba¥`\_aa`^aa]aU\_a`\_a  
@HWI-EAS443:3:49:1173:637#0/1  
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+HWI-EAS443:3:49:1173:637#0/1  
Taa\_U]bbY`^Wa[^TW^bb`[^]^Z[SJFa\_T]X[a\_ZG



@HWI-EAS443:3:49:1185:1979#0/1  
CACGTTCCATTGTCTGAACTAGTTGTTTCCACAATGTAGG  
+HWI-EAS443:3:49:1185:1979#0/1  
abbbabaaabbaaaa\_aaaaa`aab\_`a¥` `]aaa\_]a\_`  
@HWI-EAS443:3:49:1242:1023#0/1  
ACACGTTCCATTGTCTGAACTAGTTGTTTCCACAATGTAG  
+HWI-EAS443:3:49:1242:1023#0/1  
^aa`aba`a`ab`aaaa\_X[ `\_aaa` `a`^Y[0¥¥^XYZ\_  
@HWI-EAS443:3:49:128:1296#0/1  
AAGTCCTCGTGCTATGGGGCATTAAACCATCCATCTACTAG  
+HWI-EAS443:3:49:128:1296#0/1  
TX` [¥ba`¥`SaUYa^¥b]^]aYGR`aaaa^a`U`a[ `aa  
@HWI-EAS443:3:49:1312:1311#0/1  
TCCGGCTTGAACCTTCTGCTGTATCCTGATGTCCCCACAA  
+HWI-EAS443:3:49:1312:1311#0/1  
aa`a^b`a\_0Y`]ba`ab\_ab`\_aYaaa\_aa¥^a]QY¥a`  
@HWI-EAS443:3:49:1378:1168#0/1  
CACGTTCCATTGTCTGAACTAGTTGTTTCCACAATGTAGG  
+HWI-EAS443:3:49:1378:1168#0/1  
^`baabaabbab]`abaa\_a`a\_abaaaaX¥[a\_`a]\_a\_  
@HWI-EAS443:3:49:1512:340#0/1  
CTCCTGGGTAACACGTTCCATTGTCTGAACTAGTTGTTTC  
+HWI-EAS443:3:49:1512:340#0/1  
aaababababb\_aaabbaaba\_a^\_ba`a[\_S¥¥aa`aa`  
@HWI-EAS443:3:49:1572:866#0/1  
CTCCTGGGTAACACGTTCCATTGTCTGAACTAGTTGTTTC  
+HWI-EAS443:3:49:1572:866#0/1  
aaaab\_aaabbaa]\_aaaa`aab[\_ab`aaa^baaa\_a`^  
@HWI-EAS443:3:49:1583:516#0/1  
GTTCCATTGTCTGAACTAGTTGTTTCCACAATGTAGGACC  
+HWI-EAS443:3:49:1583:516#0/1  
aaXVYaaa\_ZUa^\_] ^a¥`\_a^a`b[ `\_^`^a`UU[\_^SL  
@HWI-EAS443:3:49:1608:1631#0/1  
CTTTTTTCCAGGTGGGTGAACTCTTTACCTACTGCTGTGA  
+HWI-EAS443:3:49:1608:1631#0/1  
V` `bbbbbb\_abQbRO[\_Mb]aV`\_a[HYb`[a`]\_b`UH  
@HWI-EAS443:3:49:523:1159#0/1  
CTGGCTGGATCCTGGGAAATCCAGAGTGTGAACCACTCTC  
+HWI-EAS443:3:49:523:1159#0/1  
abbaabababaaab`babbb[aaaab]baaaaXZ`Zaaa\_  
@HWI-EAS443:3:49:583:521#0/1  
CACGTTCCATTGTCTGAACTAGTTGTTTCCACAATGTAGG  
+HWI-EAS443:3:49:583:521#0/1  
Y`bb¥YQ`\_X¥[]VaaUaJ^`\_b`b`bY\_T\_aa]ZS[bb`  
@HWI-EAS443:3:49:787:1276#0/1  
GCTTGAACCTTCTGCTGTATCTTGATGTCCCGACAAAAAC  
+HWI-EAS443:3:49:787:1276#0/1  
S^ZT^VVa\_Y\_aY^` `a^\_Y\_aaaa]ba¥I¥H[¥¥I^`b^  
@HWI-EAS443:3:4:1087:69#0/1  
TGGGGACATCAAGATACAGCAAGAAGTTGAAGCCGAAAT

+HWI-EAS443:3:4:1087:69#0/1  
]b\_R¥`RM]XZaaa[P`aWH\_\_[ ]MWG[``SVa^RNRB  
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GGGGGGTGGACAGGGATGGTAGATGGATGGTAAGGTTATC  
+HWI-EAS443:3:4:1405:712#0/1  
\_`b^`aY]VRU\_U[\_¥¥aaQG¥^¥\_¥NU\_WTBTTTTTTTT  
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CACGTTCCATTGTCTGAACTAGTTGTTTCCACAATGTAGG  
+HWI-EAS443:3:4:206:1077#0/1  
aba\_aa\_aaaba^\_ab`aaa`\_`a`a`¥^aZ]Y]a\_`\_^  
@HWI-EAS443:3:4:445:501#0/1  
ACGTTCCATTGTCTGAACTAGTTGTTTCCACAATGTAGGA  
+HWI-EAS443:3:4:445:501#0/1  
]baa`aaaaaaaaW`ZU`a]a`a^\_aUR\_TaYZSW\_a\_^  
@HWI-EAS443:3:4:78:1526#0/1  
TGGCTGGATCCTGGGAAATCCAGAGTGTGAATAACTCTCC  
+HWI-EAS443:3:4:78:1526#0/1  
Z\_XV\_`\_\_W\_a^^^Z¥^]¥TZ`a[ZZU`]a[D^W]^\_YZ  
@HWI-EAS443:3:4:823:1443#0/1  
ATCTCCTGGGTAACACGTTCCATTGTCTGAACTAGTTGTT  
+HWI-EAS443:3:4:823:1443#0/1  
a¥[\_^R[[VYQWXT\_^`V¥WU\_]TXXYZYSVPQXRMURBB  
@HWI-EAS443:3:4:881:967#0/1  
ACGTTCCATTGTCTGAACTAGTTGTTTCCACAATGTAGGA  
+HWI-EAS443:3:4:881:967#0/1  
ZS\_PY`a\_\_\_^`aa]L¥a\_W^\_^]Ua`X][GYW\_YSY\_BB  
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CACGTTCCATTGTCTGAACTAGTTGTTTCCACAATGTAGG  
+HWI-EAS443:3:50:1218:635#0/1  
R\_aaa\_baa`bbb[ba\_X\_bbaa`bbbb`babbbba`a\_a  
@HWI-EAS443:3:50:315:1832#0/1  
AGCTCATGGTCCTACATTGTGGAAACAAGTTCAGACA  
+HWI-EAS443:3:50:315:1832#0/1  
a\_PU¥KVXOV`a¥ZSZ``YV]aR\_`M`a¥N\_GRKS^\_Z0]  
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TGCATATGTTTTTATGGGACATCAAGATACAGCAAGAAG  
+HWI-EAS443:3:50:541:46#0/1  
\_[I[a\_abaabbbabbb`¥bTX[a¥[aZYaaaa]S^b¥ab  
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ATCTCCTGGGTAACACGTTCCATTGTCTGAACTAGTTGTT  
+HWI-EAS443:3:50:705:1756#0/1  
a^`a`aaabYZ```ba`]\_]\_U\_^\_]\_YX\_ZSZ¥`Y\_\_Q\_  
@HWI-EAS443:3:50:813:350#0/1  
TGGAAAATGTCCAAAATATGTAAGAAGCACAAAATTGAGA  
+HWI-EAS443:3:50:813:350#0/1  
ab\_`b^YU\_^Ia¥bVTZabaSaRF^`THP[^]SuaYa\_V\_  
@HWI-EAS443:3:50:951:2044#0/1  
TACGGTTATCACCATCAAAATGAGCAGGGGGCAGGATATG  
+HWI-EAS443:3:50:951:2044#0/1  
Tabab]bYPGTW^VYT¥VW][Z^aV\_]`^b\_H\_]`^]U^``

@HWI-EAS443:3:50:975:210#0/1  
GGGGGCATCAAGATACAGCAAGAAGTTCAAGCCGGAAATA  
+HWI-EAS443:3:50:975:210#0/1  
Maab\_\_`ababbabaaab`babbbbX`aba\_Zaa`ab\_aa  
@HWI-EAS443:3:51:104:1354#0/1  
ATCTCCTGGGTAACACGTTCCATTGTCTGAACTAGTTGTT  
+HWI-EAS443:3:51:104:1354#0/1  
ZXT^WWZa¥RM`\_YXZWY\_WWR\_`[^GZbXWH^Y¥GS[Y`  
@HWI-EAS443:3:51:1336:800#0/1  
CGTTCCATTGTCTGAACTAGTTGTTTCCACAATGTAGGAC  
+HWI-EAS443:3:51:1336:800#0/1  
`\_`b`bbbabba```ab\_]`bbabb\_ab`bbbaaaaZ]a  
@HWI-EAS443:3:51:187:274#0/1  
GATACAGCAAGAAGGTCAAGCCGGAAATAGCAATAAGACC  
+HWI-EAS443:3:51:187:274#0/1  
Q^[\_`baa\_b`aa\_H¥a`ba`aa\_ab\_ab`baaa`aaS[  
@HWI-EAS443:3:52:125:711#0/1  
CGTTCCATTGTCTGAACTAGTTGTTTCCACAATGTAGGAC  
+HWI-EAS443:3:52:125:711#0/1  
abaaa`aa`a`aa`a`a`a[a`a]`\_^`[^¥^`¥¥\_V][  
@HWI-EAS443:3:52:1260:1243#0/1  
GCTGGCTGGATCCTGGGAAATCCAGAGTGTGAATAACTCT  
+HWI-EAS443:3:52:1260:1243#0/1  
a`]ZN¥`QSYaVL¥¥]BBBBBBBBBBBBBBBBBBBBBBB  
@HWI-EAS443:3:52:184:664#0/1  
ATTTTTGACACTTTCCATGCACGTGTTGTCGCATTTGTGG  
+HWI-EAS443:3:52:184:664#0/1  
abbab``\_`aaaaa^`aaa^a\_aZ^V^aa`\_aa\_\_Y`a  
@HWI-EAS443:3:52:276:604#0/1  
GTTCCATTGTCTGAACTAGTTGTTTCCACAATGTAGGACC  
+HWI-EAS443:3:52:276:604#0/1  
a¥Yaa\_a]aV[¥`¥\_W`[aW^aW\_\_¥Y[T^]]`V^[¥¥NS  
@HWI-EAS443:3:52:371:360#0/1  
ATCTCCTGGGTAACACGTTCCATTGTCTGAACTAGTTGTT  
+HWI-EAS443:3:52:371:360#0/1  
ababaaaaaa\_\_aaa\_a[aa¥`a\_a]`a\_]\_Za]\_Y\_¥^a  
@HWI-EAS443:3:52:538:465#0/1  
GGGGCGTTCACCATCCATCTACTAGTGCTGACCAACAAAG  
+HWI-EAS443:3:52:538:465#0/1  
aOV]UO¥[S[^UPZX[[U^\_\_\_UITYMMMMNYVZVFOT  
@HWI-EAS443:3:52:57:1999#0/1  
ACACGTTCCATTGTCTGAACTAGTTGTTTCCACAATGTAG  
+HWI-EAS443:3:52:57:1999#0/1  
aaa`a\_\_\_`\_^\_]`^\_\_\_\_]¥]^^^Y^W]^\_VY^V[]YYU]O  
@HWI-EAS443:3:52:667:367#0/1  
CCTGGGTAACACGTTCCATTGTCTGAACTAGTTGTTTCCA  
+HWI-EAS443:3:52:667:367#0/1  
a`ababRa^\_a\_b¥a\_^aa][Q\_`\_U[]]W`]¥`]a\_[Z]  
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GATGTCACCTGAGCTCAATTGCTCTTAGCTCCTCATAAT

+HWI-EAS443:3:52:764:1469#0/1  
a`Y\_a`\_b\_¥`aZ]abaYW\_S]^[\_]Ra```a\_\_\_\_\_ [R  
@HWI-EAS443:3:52:76:491#0/1  
CACGTTCCATTGTCTGAACTAGTTGTTCCACAATGTAGG  
+HWI-EAS443:3:52:76:491#0/1  
ab`¥]aaY]aa]X]aa\_`RZ\_a\_abX`]XX\_XK[aaY`X^  
@HWI-EAS443:3:53:1105:1811#0/1  
CATTGTGGAAACAACACTAGTTCAGACAATGGAACGTGTAC  
+HWI-EAS443:3:53:1105:1811#0/1  
aaZ[U¥abbaaV\_baababa¥`b`bbb¥a`aa[b\_bXH`¥  
@HWI-EAS443:3:53:1132:1750#0/1  
GCTCATGGTCCTACATTGTGGAAACAACACTAGTTCAGACAA  
+HWI-EAS443:3:53:1132:1750#0/1  
`abaab`b`a`ba]bbaa`aa`baabbVaaaZa`ab`Z\_\_  
@HWI-EAS443:3:53:1170:398#0/1  
GGGGCCATCAAGATACAGCAAGAAGTTCAAGCCGGAAATA  
+HWI-EAS443:3:53:1170:398#0/1  
`bbb\_`bbTaababbaab^abbabb`a¥aaa^[ba``\_a\_  
@HWI-EAS443:3:53:1731:872#0/1  
AGGAGATTTTCATCGATTATTAGGAGCTAAGAGAGCAATTG  
+HWI-EAS443:3:53:1731:872#0/1  
[`ab`bbbbb\_b]T^a`a^FYZ``^]`aab¥H¥^\_\_aa\_]`  
@HWI-EAS443:3:53:28:448#0/1  
AACACGTTCCATTGTCTGAACTAGTTGTTCCACAATGTA  
+HWI-EAS443:3:53:28:448#0/1  
aaaa`baaaaaa`a]aaa\_\_\_\_\_]a`\_a\_aaaV^^¥\_``WZ  
@HWI-EAS443:3:53:299:1848#0/1  
ACGTTCCATTGTCTGAACTAGTTGTTCCACAATGTAGGA  
+HWI-EAS443:3:53:299:1848#0/1  
a`U\_a[a[^\_Y¥a`^ZY]S¥W`\_¥\_]`[\_``TNRNU^TUT  
@HWI-EAS443:3:53:40:25#0/1  
AAAGTCTCAATCAGAATGCAGATGCATATGTTTTTGTGGG  
+HWI-EAS443:3:53:40:25#0/1  
¥b^`T\_b\_Y¥`b^`a^a¥SaU\_`]\_^\_ab]a^`ab]a`a  
@HWI-EAS443:3:53:762:730#0/1  
GAACTAGTTGTTCCACAATGTAGGACCATGAGCTTGCTG  
+HWI-EAS443:3:53:762:730#0/1  
aaaY¥`b¥`¥]a¥aa\_^\_Zb\_``aa\_Raa`ZaY`]a\_]`  
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GGGACATTCGCAATCCTGTGGCCAGTCTCAATTTTGTGC  
+HWI-EAS443:3:54:101:1311#0/1  
^baaa]Za\_]Xabaaaaa\_aa^WYSNFS\_\_^[``\_XTO  
@HWI-EAS443:3:54:1023:1460#0/1  
GCCGGTTTCATTGAAGTGGGGTGGACAGGGATGGTAGATG  
+HWI-EAS443:3:54:1023:1460#0/1  
W\_b`aab`]^Z\_bab\_IU^TXWa\_[G[\_ROMYV]`aabaa  
@HWI-EAS443:3:54:114:301#0/1  
GTTCCATTGTCTGAACTAGTTGTTCCACAATGTAGGACC  
+HWI-EAS443:3:54:114:301#0/1  
aa]aaaa````a]W\_¥\_T\_]aa^\_\_\_\_\_]SNY\_X¥^[]^

@HWI-EAS443:3:54:1314:1777#0/1  
GCCGGTTTCATTGAAGGGGGTGGACAGGGATGGTCGATG  
+HWI-EAS443:3:54:1314:1777#0/1  
a]\_`XZ\_]P^ZUZU¥SZ¥a]W]¥WVN^V]WU^UGG¥HNW  
@HWI-EAS443:3:54:1603:226#0/1  
AAGCAAGTTAAAAACAATGCCAAGGAAATTGGAAACGGC  
+HWI-EAS443:3:54:1603:226#0/1  
abaIXbaaV\_Na[RLNa^Y[PP\_`a^SZP]Q¥\_VYYSWWN  
@HWI-EAS443:3:54:454:835#0/1  
CAGAATTTACTTTGTTAGTCATCTCGTCAATGGCATTCTG  
+HWI-EAS443:3:54:454:835#0/1  
]¥a\_R\_b`X^bb`b¥XZ`XG]babb\_WZ\_]`^ab]]]\_\_Ya  
@HWI-EAS443:3:54:606:1741#0/1  
ATTGTGGAAACAACACTAGTTCAGACAATGGAACGTGTTACC  
+HWI-EAS443:3:54:606:1741#0/1  
aaaa\_aabb`aba\_a`^^]ZaaaS\_]a\_\_]WWZU^M`¥^  
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CACGTTCCATTGTCTGAACTAGTTGTTCCACAATGTAGG  
+HWI-EAS443:3:54:648:497#0/1  
aabb]a^^^`ba¥`Za\_ZV\_Ua]]bX`]¥a`]XZZ¥LY`  
@HWI-EAS443:3:54:704:1221#0/1  
AACACGTTCCATTGTCTGAACTAGTTGTTCCACAATGTA  
+HWI-EAS443:3:54:704:1221#0/1  
W\_b\_`\_Wabaaa¥^Tb`b``[aaa]aaa]a\_a]I¥U\_`XN  
@HWI-EAS443:3:54:706:291#0/1  
ACACGTTCCATTGTCTGAACTAGTTGTTCCACAATGTAG  
+HWI-EAS443:3:54:706:291#0/1  
`abaa`a]aabaa\_`a\_`a]aaa^a`^aa[[`^\_\_aYZ\_a  
@HWI-EAS443:3:54:813:1504#0/1  
TTCCATTGTCTGAACTAGTTGTTCCACAATGTAGGACCA  
+HWI-EAS443:3:54:813:1504#0/1  
a^M¥[aabW`]a\_`¥Tb\_\_Xa`aa]PYZ¥WZa]NL¥a]\_\_  
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+HWI-EAS443:3:55:1441:343#0/1  
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GTCCTACATTGTGGAAACAACACTAGTTCAGACAATGGAACG  
+HWI-EAS443:3:55:1455:836#0/1  
a\_\_V\_Z^`RY]S^^N]YY\_\_]\_]`QXS[\_¥]\_^Z^\_]Y`  
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GTTCCATTGTCTGAACTAGTTGTTCCACAATGTAGGACC  
+HWI-EAS443:3:55:197:1223#0/1  
VZV^QYVaU```b`R`\_I\_JY`UTa]Haaaa`\_]VQQOa]  
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+HWI-EAS443:3:55:207:1209#0/1  
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CATGAACTTGTCTAGGGGAATATCTCAAACCTTTCAAATG

+HWI-EAS443:3:55:342:1858#0/1  
¥b^baaUaaaaaa`aa`\_`aaa`a`aa`\_]`[\_aa`\_`\_  
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GCTGCTTTGAATTTTACCACAAATGCGATAACACGGGCAT  
+HWI-EAS443:3:55:718:434#0/1  
¥\_V¥Z`¥bbK¥^Z^¥aXU]`¥PYYaXa`RaY^\_a\_F]LMP  
@HWI-EAS443:3:55:720:418#0/1  
ATGGTCCTACATTGTGGAAACAAGTTCAGACAATGGA  
+HWI-EAS443:3:55:720:418#0/1  
\_`^`Pa]baaaba^L`aS]a\_adW]]a]aaa]a]\_W`¥]^  
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CCGGCTTGGACTTCTTGCTGTATCTTGATGTCACAAAA  
+HWI-EAS443:3:55:746:1505#0/1  
X`\_`\_a¥aXHS¥aa¥¥\_b`^Z`^`¥X^`YWYV¥^aZWX]^  
@HWI-EAS443:3:55:824:1692#0/1  
ATCTCCTGGTAACACGTTCCATTGTCTGAACTAGTTGTT  
+HWI-EAS443:3:55:824:1692#0/1  
a]\_aaa`a[\_W[\_¥^`\_\_\_\_`^\_]\_ZZ^\_]\_`^Z`^`Z^]^\_`  
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ATCAAATCAGCAGGGGTCAGGATATGCAGCCGACCTGAA  
+HWI-EAS443:3:55:939:2035#0/1  
Tbb]aa[MKVM\_\_S\_ZSHabaa`^UZbbbU]ZaWKM[a^b  
@HWI-EAS443:3:55:982:1189#0/1  
CACGTTCCATTGTCTGAACTAGTTGTTTCCACAATGTAGG  
+HWI-EAS443:3:55:982:1189#0/1  
aaaaabaa\_aaaa`\_`b`a`b\_aa\_aa`\_a`\_a`\_`[^a`  
@HWI-EAS443:3:56:1022:1237#0/1  
GTTACCGTTACATTCTTTTCTAGTACTGTGTCTACAGTGT  
+HWI-EAS443:3:56:1022:1237#0/1  
abaaa`¥`\_WY`aa[aaa`\_a]a`^^aa]a\_\_`]U¥`V`B  
@HWI-EAS443:3:56:1044:1959#0/1  
CACGTTCCATTGTCTGAACTAGTTGTTTCCACAATGTAGG  
+HWI-EAS443:3:56:1044:1959#0/1  
`aaaaabbaabba`\_`baaUaabYaa`^\_V^a0aa`^S`\_`¥  
@HWI-EAS443:3:56:1297:1259#0/1  
GGGGGGTGGACAGGGATGGTAGATGGATGGCACGGTTATC  
+HWI-EAS443:3:56:1297:1259#0/1  
\_b¥P`aUT`\_`Va\_b]^VaaG[TMP`a¥^SODK¥`^HU^BB  
@HWI-EAS443:3:56:1359:311#0/1  
CTCATGGTCCTACATTGTGGAAACAAGTTCAGACAAT  
+HWI-EAS443:3:56:1359:311#0/1  
[a`aaa\_Z¥Taa]b]baa`[YI¥]aa¥¥Z^V\_[R`\_Y[`R  
@HWI-EAS443:3:56:1438:285#0/1  
GTCCTACATTGTGGAAACAAGTTCAGACAATGGAACG  
+HWI-EAS443:3:56:1438:285#0/1  
a\_\_`^`\_\_a`\_`]a`\_XWa^X]^\_`^SW[WZ`^Z^^SZX]  
@HWI-EAS443:3:56:1622:1089#0/1  
TGTGCTCTTCAGGTCGGCTGCATATCCTGACTCCTGCTCA  
+HWI-EAS443:3:56:1622:1089#0/1  
aa`\_`^a\_aaYaaa¥`\_Y`aa¥\_\_a`¥Ya\_\_YG[W\_Y¥\_¥]

@HWI-EAS443:3:56:27:676#0/1  
AGGAGATTCATCGATTATGAGGAGCTACGAGAGCAATTG  
+HWI-EAS443:3:56:27:676#0/1  
ab^TaP]OY¥P\_Xa^QVV][W^YJ^[¥]IVFVH^]OQPUY  
@HWI-EAS443:3:56:487:724#0/1  
AAACAAC TAGTTCAGACAATGGAACGTGTACCCAGGAGA  
+HWI-EAS443:3:56:487:724#0/1  
a\_a`^bb]\_]aaaaZ[^Z`aa]`^bP¥L\_]X\_\_a`[[^]  
@HWI-EAS443:3:56:624:809#0/1  
GGAAATTGGAACGGCTGCTTTTAATTTTACCACAAATGC  
+HWI-EAS443:3:56:624:809#0/1  
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@HWI-EAS443:3:56:720:1535#0/1  
TTCCGGCTTGAAC TCTTGCTGTATCTTGATATCCCCACA  
+HWI-EAS443:3:56:720:1535#0/1  
aabaaaaba\_aaX` `` `]^`aZO¥a\_aa^aa`]T^X`ZY[  
@HWI-EAS443:3:56:815:598#0/1  
ACACGTTCCATTGTCTGAACTAGTTGTTCCACAATGTAG  
+HWI-EAS443:3:56:815:598#0/1  
\_]b`Vab^Ya]a¥\_a[^\_a`ZWaa[a`\_VZZ\_]\_`W[P  
@HWI-EAS443:3:56:973:545#0/1  
TGCTGGCTGGATCCTGGGAAATCCAGAGGGTGAATCACTC  
+HWI-EAS443:3:56:973:545#0/1  
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@HWI-EAS443:3:56:977:244#0/1  
CTGGGTAACACGTTCCATTGTCTGAACTAGTTGTTCCAC  
+HWI-EAS443:3:56:977:244#0/1  
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CAAATCCTACATTAATGATAAAGGGAAAGAAGACCTCGTG  
+HWI-EAS443:3:57:1223:1428#0/1  
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+HWI-EAS443:3:57:1373:359#0/1  
ababbbbaabb`abbbbaabab`bbbbbaabaa\_bb\_abb  
@HWI-EAS443:3:57:1407:1198#0/1  
AAACTGATTGCCCAAGGGAGACTACCAGTACCAATGAAC  
+HWI-EAS443:3:57:1407:1198#0/1  
WW[\_\_PPa[[[]H[MT^aW`\_]aa¥VXH\_a[XU]b¥]]Z^  
@HWI-EAS443:3:57:1427:71#0/1  
TGCTTCTCTGAGTATTTTGGGCAGTCATAAGTCCCATTT  
+HWI-EAS443:3:57:1427:71#0/1  
aa\_baa\_babbab\_abaaaa^W¥`^]]a\_]\_^X¥WZ\_\_^  
@HWI-EAS443:3:57:1534:952#0/1  
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+HWI-EAS443:3:57:1534:952#0/1  
abb`^abaabaaaa`baaaXa]aaa^\_ab`¥^P]aa`]\_R  
@HWI-EAS443:3:57:156:398#0/1  
GGGGGCATCAAGATACAGCAAGAAGTTCAAGCCGAAATA

+HWI-EAS443:3:57:156:398#0/1  
aaa` `` `aK\_WQ\_] ^Za]] ¥] ` ] ^\_XZUZ[KY\_aaZVT]R  
@HWI-EAS443:3:57:1681:1395#0/1  
GCTTGAACCTTCTGCTGCATCTTGATGTCCCCACAAAAAC  
+HWI-EAS443:3:57:1681:1395#0/1  
¥] ` ¥^^a`aaX\_\_VZab¥^a]bba`aa\_Y\_\_WaW] [-] \_ `   
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CTCCTGGGTAACACGTTCCATTGTCTGAACTAGTTGTTTC  
+HWI-EAS443:3:57:1721:835#0/1  
a`U\_` `a`T`^WaV\_`\_¥XZ\_`^SZ`^]\_\_b\_¥T\_`V¥b]  
@HWI-EAS443:3:57:198:289#0/1  
ACGTTCCATTGTCTGAACTAGTTGTTTCCACAATGTAGGA  
+HWI-EAS443:3:57:198:289#0/1  
aaa`\_`ZN[ ` ]\_\_][Z`^`\_aX`\_] ` `¥Z`^`^]YV¥\_T  
@HWI-EAS443:3:57:31:1380#0/1  
GAGGACATGCTGCCGTTACTCCTTTGTTTCGAGTCATGATT  
+HWI-EAS443:3:57:31:1380#0/1  
[b`\_] ` \_VWaXX`b`b^baaaZJY\_`aX`XZ¥a] ` ]\_\_\_\_[  
@HWI-EAS443:3:57:562:1264#0/1  
GTTACCGTTACATTCTTTTCTAGTACTGTGTCTACAGTGT  
+HWI-EAS443:3:57:562:1264#0/1  
aaaa\_aa]a]^ [ ` ` \_aaaa\_a^\_] \_^\_\_Y`\_\_`^^[BBBB  
@HWI-EAS443:3:57:856:736#0/1  
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+HWI-EAS443:3:57:856:736#0/1  
a\_aba`a`abb`abbZ]b\_aababa\_a`¥]a[ `Zaa]]aa  
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+HWI-EAS443:3:57:90:155#0/1  
Xaa]Zaa¥` `V`Z^a`aRU]ZP\_^^¥\_] ]TUTSFZUZ^X^  
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+HWI-EAS443:3:57:91:355#0/1  
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@HWI-EAS443:3:57:967:164#0/1  
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+HWI-EAS443:3:57:967:164#0/1  
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@HWI-EAS443:3:58:1148:1317#0/1  
ACGTTCCATTGTCTGAACTAGTTGTTTCCACAATGTAGGA  
+HWI-EAS443:3:58:1148:1317#0/1  
a\_WWY^`a`a`\_] ^aT¥YX[T`a^¥`XMS`a\_\_a][ `Z`  
@HWI-EAS443:3:58:1263:1295#0/1  
CGTTCCATTGTCTGAACTAGTTGTTTCCACAATGTAGGAC  
+HWI-EAS443:3:58:1263:1295#0/1  
ab` `X\_baaa^Xab`a] `ab\_ab`aa[ \_ ` [ `aaaY` ` [^^  
@HWI-EAS443:3:58:1366:662#0/1  
GCCGGTTTCATTGAAGGGGGTGGACAGGGAAGGTAGATG  
+HWI-EAS443:3:58:1366:662#0/1  
a`abb^baaabbb` `b`bb[aTa\_`W[a^`^Ua\_W` ``]a



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+HWI-EAS443:3:58:146:904#0/1  
a[`aaa`¥``]Z^`\_Ya`¥¥Va\_aY``]`a\_\_YZ`Y\_WYZ  
@HWI-EAS443:3:58:1537:1035#0/1  
ACGTTCCATTGTCTGAACTAGTTGTTTCCACAATGTAGGA  
+HWI-EAS443:3:58:1537:1035#0/1  
aYa]a]\_\_a`]^[^]bY\_a¥`^a\_a]^aa¥FZP\_Z\_`X\_]][  
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AGCAAGCTCATGGTCCTACATTGTGGAAACAACACTAGTTCA  
+HWI-EAS443:3:58:1537:1919#0/1  
aa]^aa`^^WZ]XN][\_a^]YX\_`[\_\_\_]V^^SR¥[  
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+HWI-EAS443:3:58:1585:350#0/1  
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+HWI-EAS443:3:58:1658:438#0/1  
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@HWI-EAS443:3:58:1730:302#0/1  
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+HWI-EAS443:3:58:1730:302#0/1  
aba^`bbaba`a`aa`a`]` ` `abbaba^]a]aaaa]\_`a  
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+HWI-EAS443:3:58:1755:1679#0/1  
^\_Y`U]Z¥aab\_]a\_\_H\_a]¥\_\_\_^aa]LX^XY`^[a`a`  
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+HWI-EAS443:3:58:335:500#0/1  
]`\_` `abbaaaa`^`aa^¥]^]X]`aa[[BBBBBBBBBBBB  
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+HWI-EAS443:3:58:347:1363#0/1  
aabbba]ba`a`a` ` `VS[`a\_\_a\_a\_^a`aaYaa\_\_^\_]`  
@HWI-EAS443:3:58:439:219#0/1  
GTCTGAACTAGTTGTTTCCACAATGTAGGACCATGAGCTT  
+HWI-EAS443:3:58:439:219#0/1  
a\_`abXaaa[a]`a\_a\_a^`^`^a`]^a\_[S[¥\_^]^]^]  
@HWI-EAS443:3:58:481:1354#0/1  
GTAACACGTTCCATTGTCTGAACTAGTTGTTTCCACAATG  
+HWI-EAS443:3:58:481:1354#0/1  
a\_`aaaaa]`\_]a\_\_[]` `^^` \_\_\_\_\_`\_\_`\_`\_]^^\_]^\_  
@HWI-EAS443:3:58:519:1926#0/1  
CTCCTGGGTAACACGTTCCATTGTCTGAACTAGTTGTTTC  
+HWI-EAS443:3:58:519:1926#0/1  
aaa`abba\_abb\_Z\_`a`aa`a\_\_^R^`]]`\_]`\_`^`\_`^  
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+HWI-EAS443:3:58:625:978#0/1  
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GAACTAGTTGTTTCCACAATGTAGGACCATGAGCTTGCTG  
+HWI-EAS443:3:58:634:99#0/1  
\_Y\_Y¥ab`aa`\_aaa¥\_`[a^[^`[^¥¥`^[\_SY[`]\_\_  
@HWI-EAS443:3:58:663:683#0/1  
ACACGTTCCATTGTCTGAACTAGTTGTTTCCACAATGTAG  
+HWI-EAS443:3:58:663:683#0/1  
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+HWI-EAS443:3:58:66:615#0/1  
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+HWI-EAS443:3:58:682:1757#0/1  
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+HWI-EAS443:3:58:945:215#0/1  
a`baa`\_aa`a\_\_`a\_]`\_a^aa```^¥^Z\_^^^X^Z¥¥  
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+HWI-EAS443:3:59:164:926#0/1  
a\_aaab`\_a\_RUaaZaa\_[^]a\_\_`Za\_[RZW^Y[QY¥WR  
@HWI-EAS443:3:59:324:1940#0/1  
GAACTAGTTGTTTCCACAATGTAGGACCATGAGCTTGCTG  
+HWI-EAS443:3:59:324:1940#0/1  
]\_baaab`\_\_\_\_bbbbbbba¥]abbbbbbb```\_^Za[aa]^  
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+HWI-EAS443:3:59:432:1426#0/1  
a`\_\_`^U^^^YabaL]S\_aa]SZWbb\_a[^a]WV\_RV``Y  
@HWI-EAS443:3:59:458:2009#0/1  
GAACTAGTTGTTTCCACAATGTAGGACCATGAGCTTGCTG  
+HWI-EAS443:3:59:458:2009#0/1  
\_aa]]¥¥Z\_Z]b^¥UZ]ab`YS\_Z]W\_ab]URNN]ZRS^[  
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+HWI-EAS443:3:59:590:178#0/1  
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CGTTCCATTGTCTGAACTAGTTGTTTCCACAATGTAGGAC  
+HWI-EAS443:3:59:77:1568#0/1  
ab\_baaa\_a``aaaaabab]^¥a\_^¥ab`\_aT`\_]^YRYX  
@HWI-EAS443:3:5:1009:1921#0/1  
CGGCTCTACTAGTGTCCAGGAATAGTTCATTCTCCCTTCT  
+HWI-EAS443:3:5:1009:1921#0/1  
ababb¥\_\_WIZ\_]a0`abaJ^b[¥KZ]\_`a^S^\_SIX`V`

@HWI-EAS443:3:5:1203:1084#0/1  
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+HWI-EAS443:3:5:1203:1084#0/1  
a`b[bbbbbbabba`aab`Uaaaba\_abaa¥bbb`bbaaaa  
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+HWI-EAS443:3:5:1371:349#0/1  
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+HWI-EAS443:3:5:1376:126#0/1  
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+HWI-EAS443:3:5:1388:1272#0/1  
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TAACACGTTCCATTGTCTGAACTAGTTGTTTCCACAATGT  
+HWI-EAS443:3:5:1509:703#0/1  
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+HWI-EAS443:3:5:1588:793#0/1  
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+HWI-EAS443:3:5:428:1893#0/1  
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+HWI-EAS443:3:5:49:1064#0/1  
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+HWI-EAS443:3:5:51:679#0/1  
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+HWI-EAS443:3:60:1168:146#0/1  
aa\_]bYab\_bbS¥aZ[Xa`[]b`¥`\_\_aY\_T¥¥`Za`\_\_  
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CTCCTGGGTAACACGTTCCATTGTCTGAACTAGTTGTTTC  
+HWI-EAS443:3:60:1263:219#0/1  
a`]\_\_ba\_P¥]`[]Z`ba`Y\_]aZ^aaY`\_```Q`aP^]]  
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+HWI-EAS443:3:60:1440:2002#0/1  
aQ[`TSY`JY^UPX^^]S\_`]XUY^PP¥[UZN[[SP[YUP  
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+HWI-EAS443:3:60:1478:1168#0/1  
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+HWI-EAS443:3:60:165:1424#0/1  
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+HWI-EAS443:3:60:1714:628#0/1  
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+HWI-EAS443:3:60:30:1522#0/1  
aa`a\_\_Z\_[X]aYM]V^]X]V^`UXPNLQ^ZY¥ZTQTVVT  
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+HWI-EAS443:3:60:363:1571#0/1  
`\_0[b\_Zab`XabXWN\_aUba\_^ZaU^YG^a\_`a]N[¥¥V  
@HWI-EAS443:3:60:436:606#0/1  
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+HWI-EAS443:3:60:436:606#0/1  
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+HWI-EAS443:3:60:537:712#0/1  
¥U^U¥[Y[¥]\_ZXY¥¥S¥`^WW\_]VNYT[\_]W[UYU^RQT  
@HWI-EAS443:3:60:758:1010#0/1  
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+HWI-EAS443:3:60:758:1010#0/1  
aaab[\_bbab`ba`\_ababa`Z\_]a\_a``¥[````Y\_Z¥  
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+HWI-EAS443:3:60:913:1219#0/1  
abbaaa\_`aa`aaaaaa^\_a`\_\_Xa]a^`\_\_^W\_\_Z^\_a  
@HWI-EAS443:3:61:333:1339#0/1  
GCTGCATATCCTGACCCCTGCACATTTTGATGGTGATAAC  
+HWI-EAS443:3:61:333:1339#0/1  
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@HWI-EAS443:3:61:610:409#0/1  
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+HWI-EAS443:3:61:610:409#0/1  
abb`Ybabbaab\_bab`bbb]b\_abaabaaaa`a`¥X\_^  
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CGTTCCATTGTCTGAACTAGTTGTTTCCACAATGTAGGAC  
+HWI-EAS443:3:61:69:152#0/1  
abbbbbbbbabbbbbb`a\_a`\_aaaa\_\_aa\_a^^a\_`^]

@HWI-EAS443:3:61:740:645#0/1  
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aaaabaa^aa`aa\_\_aaa\_W]]a^aa`aa\_]\_]\_¥YOV  
@HWI-EAS443:3:61:957:630#0/1  
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+HWI-EAS443:3:61:957:630#0/1  
aa`a^]\_aaaZa`^a`^`^`\_\_`Z`^`^^^][YU[\_VY  
@HWI-EAS443:3:62:1194:1824#0/1  
GCCTTCCATTTCAGAATATACATCCGATCACAATTGGAAA  
+HWI-EAS443:3:62:1194:1824#0/1  
\_\_`^a\_\_¥U`^a````^b\_bbbZSTabaaba¥\_aaaaaa`  
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+HWI-EAS443:3:62:123:1985#0/1  
\_`]\_H^`\_]Zb\_]`^`Ub¥[Z`a]]N]]\_`RZQWW\_a`V  
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CCATTGTCTGAACTAGTTGTTTCCACAATGTAGGACCATG  
+HWI-EAS443:3:62:1417:1252#0/1  
TY[¥Y\_Z`^\_Y¥SYa\_N¥¥Z\_¥\_¥Z^Z¥\_ZY]¥`]¥\_¥\_a  
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+HWI-EAS443:3:62:199:1257#0/1  
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+HWI-EAS443:3:62:327:2041#0/1  
\_\_bUQ\_a`¥¥U\_VQ]VZZ\_XFRW[\_Y``[U]YWZWHN\_PZ  
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AACTAGTTGTTTCCACAATGTAGGACCATGAGCTTGCTGT  
+HWI-EAS443:3:62:361:339#0/1  
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+HWI-EAS443:3:62:396:1283#0/1  
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+HWI-EAS443:3:62:627:866#0/1  
aab\_aaaaaa`\_aa``aaa`a`\_]`\_a\_a``\_\_a]\_U]\_  
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`Z]ZZGL`QZ`^aaabaZVVXWV``\_YZ^`^YaZ][^``[  
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+HWI-EAS443:3:63:1146:61#0/1  
aaaa\_\_`a`\_a^\_\_^aa\_\_a`[^`UX[YPZRU[¥WWWWW  
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+HWI-EAS443:3:63:1197:609#0/1  
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+HWI-EAS443:3:63:1532:584#0/1  
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+HWI-EAS443:3:63:236:1660#0/1  
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+HWI-EAS443:3:63:247:1159#0/1  
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+HWI-EAS443:3:63:250:38#0/1  
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+HWI-EAS443:3:63:348:496#0/1  
aa`bVa\_a]\_a[^`]aa\_aba[G\_W`\_aY^W[\_`\_¥^RP[  
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+HWI-EAS443:3:63:416:2015#0/1  
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+HWI-EAS443:3:63:527:242#0/1  
a`^`^`a\_\_^`a`^`a]\_[W\_\_^\_\_^^^Y\_Y]\_W[¥W]WW

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+HWI-EAS443:3:63:814:964#0/1  
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+HWI-EAS443:3:64:1141:1146#0/1  
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+HWI-EAS443:3:64:1421:1445#0/1  
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+HWI-EAS443:3:64:1478:1105#0/1  
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+HWI-EAS443:3:64:1525:1607#0/1  
aba^baaaab\_baba]^aa\_a\_aaa\_baaaa\_``[\_a\_¥R  
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+HWI-EAS443:3:65:843:365#0/1  
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+HWI-EAS443:3:67:1638:1887#0/1  
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+HWI-EAS443:3:68:1565:1310#0/1  
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+HWI-EAS443:3:68:172:1619#0/1  
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+HWI-EAS443:3:68:199:217#0/1  
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+HWI-EAS443:3:68:452:1813#0/1  
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+HWI-EAS443:3:68:598:121#0/1  
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+HWI-EAS443:3:68:69:1842#0/1  
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+HWI-EAS443:3:68:936:515#0/1  
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+HWI-EAS443:3:69:301:1111#0/1  
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+HWI-EAS443:3:69:538:503#0/1  
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+HWI-EAS443:3:69:919:277#0/1
T¥¥`XQWaNUN^^QX`WX¥a[Y]X`a__]_Y¥S¥a]ZR^a]
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+HWI-EAS443:3:6:1240:1104#0/1
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+HWI-EAS443:3:6:1599:1358#0/1
VTT^bK`¥¥`ababb]^_`JX_aLQW__ZHGJaT¥]_JY]
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+HWI-EAS443:3:6:590:1423#0/1
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+HWI-EAS443:3:6:643:1650#0/1
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+HWI-EAS443:3:6:660:1636#0/1
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+HWI-EAS443:3:6:775:508#0/1
Y_aaa^^`bbVaVY__ZbbY`Ta^^XF]`]PLGZQS_UZB
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+HWI-EAS443:3:70:100:1524#0/1
aaa`_`aabab`aaaaaaaaaaaaab_]abaa^a^aaa_^
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+HWI-EAS443:3:70:1069:1577#0/1
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+HWI-EAS443:3:70:1585:1225#0/1
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+HWI-EAS443:3:70:1637:199#0/1
`a_____a]_a`]a_¥`Q`_`Xa`_a`V\$XZ^^Z[P^]¥T
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+HWI-EAS443:3:70:1776:1431#0/1
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aa]YS__JVT_Y]Z[a]¥aX]UVU[Y]_^[^VU[TYYWR[
@HWI-EAS443:3:70:466:1255#0/1
CATTGTGGAAACAACACTAGTTCAGACAATGGAACGTGTTAC
+HWI-EAS443:3:70:466:1255#0/1
aaaaaT_]`^abbbaa____]aaa_aaaa_¥^_]`^Y[X^__
@HWI-EAS443:3:70:494:1589#0/1
ATTGTCTGAACTAGTTGTTCCACAATGTAGGACCATGAG
+HWI-EAS443:3:70:494:1589#0/1
YXZ`U¥_]Va]LUTZT¥Z_aa_Y^[VGXHXU[Y`XYS[¥B
@HWI-EAS443:3:71:1206:146#0/1
TGGGGACATCAAGATACAGCAAGAAGCTCAAGCCGAAAT
+HWI-EAS443:3:71:1206:146#0/1
abbaa^`a`¥^a__`_aa^_aa][`R__a]_[T_^Y]X]
@HWI-EAS443:3:71:1329:959#0/1
ACGTTCCATTGTCTGAACTAGTTGTTCCACAATGTAGGA
+HWI-EAS443:3:71:1329:959#0/1
``^0]¥¥S]_`Za]`UZVUa`V`b_ab__[EX[X]_XY¥Y
@HWI-EAS443:3:71:1570:1822#0/1
GCTTCCTCTGAGGATTTTGGGTAGTCATAAGTCCCATTTT
+HWI-EAS443:3:71:1570:1822#0/1
a_V_Q_a]`L[[G[[_aZa_aXQSLQ]X]`_S[_^XV¥^Y
@HWI-EAS443:3:71:1589:976#0/1
CACGTTCCATTGTCTGAACTAGTTGTTCCACAATGTAGG
+HWI-EAS443:3:71:1589:976#0/1
a`aa`abbbabba`b_baab`aaa_abbba`_a`aa`a`]
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+HWI-EAS443:3:71:209:107#0/1
abaaa`aab_aa_baab`_aa`]_^`^`_Z^Z^X_
@HWI-EAS443:3:71:219:1097#0/1
GAACTAGTTGTTTCCACAATGTAGGACCATGAGCTTGCTG
+HWI-EAS443:3:71:219:1097#0/1
a_^`aaaWab`aabbba^`]S[^`aa^^`X` `aZZXaa_
@HWI-EAS443:3:71:745:194#0/1
GTTCCATTGTCTGAACTAGTTGTTTCCACAATGTAGGACC
+HWI-EAS443:3:71:745:194#0/1
aaab`aabb_aabab`aaa`aa_aabaa]a`aa_`] [_^]
@HWI-EAS443:3:71:858:26#0/1
CTAGTTGTTTCCACAATGTAGGACCATGAGCTTGCTGTGG
+HWI-EAS443:3:71:858:26#0/1
ab_b]`_]bKbMa[aaa^aTUaa^baa`XHYRT___R]W^Q
@HWI-EAS443:3:71:886:560#0/1
CTCCTGGGTAACACGTTCCATTGTCTGAACTAGTTGTTTC
+HWI-EAS443:3:71:886:560#0/1
aabaabaaVaa`a_a_a`aaaaa[^aaaaaa_a_aa_a_^
@HWI-EAS443:3:71:946:1409#0/1
GAAAGAAGTCCTCGTGCTATGGGGCATTACCCTATCT
+HWI-EAS443:3:71:946:1409#0/1
`ba]aa_a`ab`aa_a`aa`a_^Z]aa`aa__a_a_a_] ^
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+HWI-EAS443:3:72:1392:1333#0/1
abaaa_`^^aa_WX`_ab_a]`_`_a_Za^FO_[JOXU_^
@HWI-EAS443:3:72:1486:1636#0/1
ATTGTCTGAACTAGTTGTTTCCACAATGTAGGACCATGAG
+HWI-EAS443:3:72:1486:1636#0/1
`a^bY` ``]aaaa_Z^ba]aa_aZ^`]Y¥aa]`R__a^a`
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CTCCTGGGTAACACGTTCCATTGTCTGAACTAGTTGTTTC
+HWI-EAS443:3:72:392:453#0/1
abbabbab^bbbbbbab`abaa` `aaaabaaaa` `_]aaa
@HWI-EAS443:3:72:443:1495#0/1
GGCTACCCCCCTTAGTTTGCATAGTTTCCCGTTATGCTTG
+HWI-EAS443:3:72:443:1495#0/1
¥U`a` `bb[F]` [P]¥WZ]ZWUZYHX_]Z^PMXMX¥¥[UD
@HWI-EAS443:3:72:50:2041#0/1
GGGGACATCAAGATACAGCAAGAAGCTCAAGCCGGAAATA
+HWI-EAS443:3:72:50:2041#0/1
ZK_R`_^]__W^_baS_ab_^`_a^HS___^a`]_TWa_^
@HWI-EAS443:3:72:765:1211#0/1
GGAAACAACCTAGTTCCAGACAATGGAACGTGTTACCCAGGA
+HWI-EAS443:3:72:765:1211#0/1
`b_bbabbba^` `abba` bbaabaaaa` aabaa_aa_a
@HWI-EAS443:3:72:912:1712#0/1
CACGTTCCATTGTCTGAACTAGTTGTTTCCACAATGTAGG
+HWI-EAS443:3:72:912:1712#0/1
ab` __bbbb` _[_aa^]`a`aa` `a_a` ``a`a` _`U` _¥

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+HWI-EAS443:3:72:976:736#0/1
abba`a`bbba`aVV^ZJ0[aaa`XDPSF]__Z`^^VYRY
@HWI-EAS443:3:73:1152:1831#0/1
GCGAACAATTCAACAGACACTGTAGACACAGTAGTAGAAA
+HWI-EAS443:3:73:1152:1831#0/1
`bZ_^a`¥_aaaa¥baaa`_a¥Y]`[^^]QZUFXXSZ_Q
@HWI-EAS443:3:73:1474:1963#0/1
AAACAATGCCAAGGAAATTGGAAACGGCTGCTTTTAATTT
+HWI-EAS443:3:73:1474:1963#0/1
a`a_¥```a`^`aaaYZ`Y^`^``_¥[[]_PT¥WDISYZ[
@HWI-EAS443:3:73:1494:341#0/1
TAAGAAGCCAGTTAAAAACAATGCGAAGGAAATTGGAAA
+HWI-EAS443:3:73:1494:341#0/1
]L]SVYb^_^_¥[a`Y^ZHWba^SET[¥UNR_^`_¥QR¥
@HWI-EAS443:3:73:155:1437#0/1
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+HWI-EAS443:3:73:155:1437#0/1
`a^Za]b_¥abba_aa_ba`^a`a^Z^``aa`aa_aaa__
@HWI-EAS443:3:73:170:774#0/1
GCATATCTCGCTACCACTAGATTTCCAGTTGCTTCCAATG
+HWI-EAS443:3:73:170:774#0/1
`b]^]¥`GZ]R_NS^_SZ¥a]MRV]NFZWW]XX]V`OUW[
@HWI-EAS443:3:73:332:376#0/1
CTGGCGTATCTGAAATGATAATACCAGATCCAGCATTCT
+HWI-EAS443:3:73:332:376#0/1
Y_]_R_PYY¥ZX¥`_``[a]TX^OTZX]S^_[__][W]a
@HWI-EAS443:3:73:361:1186#0/1
GTCTGAACTAGTTGTTTCCACAATGTAGGACCATGAGCTT
+HWI-EAS443:3:73:361:1186#0/1
a^aa```a_aa^`a_``aa`]``_P`__`¥YSY^_Z^]]
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+HWI-EAS443:3:73:381:1561#0/1
¥_Y^^_aaa[[¥QU__IY`][^`[VIYW_Z[BBBBBBBBB
@HWI-EAS443:3:74:1592:1924#0/1
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+HWI-EAS443:3:74:1592:1924#0/1
`[[`[[aaZ_]Xba]¥a``aaa¥KSRLXPTGW[ZVSYZY
@HWI-EAS443:3:74:1650:926#0/1
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+HWI-EAS443:3:74:1650:926#0/1
aba_]]bab`aa_bbbbaa_``[a`_b_]aaVa_aaU__^
@HWI-EAS443:3:74:1663:17#0/1
ATTCATCTTTTCAATAACAGAATTTACTTTGCTAGTAATC
+HWI-EAS443:3:74:1663:17#0/1
`bb``aab]bb_baaa`Xaba`aaa`TaabaWa``^`__W
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+HWI-EAS443:3:74:1790:455#0/1
W_^Y`^a`a^`¥` `b[`aa_^G_[_]¥¥¥`^YM¥XPWYOR
@HWI-EAS443:3:74:377:1008#0/1
AAGTTCTTCACATTTGAATCGTGGTAGTCCAAAGGTCTTT
+HWI-EAS443:3:74:377:1008#0/1
`` `[W[_a^_^_]]`_PPX` `L¥RQZXUFZYSLOGLRZZW
@HWI-EAS443:3:74:625:1214#0/1
GGAACGTGTAACCCAGGAGATTTTCATCGATTATGAGGAGC
+HWI-EAS443:3:74:625:1214#0/1
_`aVaba^GH_ba`baX]ab_aW^babaIabaa`a[a]aR
@HWI-EAS443:3:74:679:499#0/1
GAACTCTTTATCTACTGCTGTGAACGTGTATTTCATCTTT
+HWI-EAS443:3:74:679:499#0/1
XXb`bbbabZLaabab`b_aVbba`bb_a¥aabbaa^bab
@HWI-EAS443:3:74:728:1942#0/1
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+HWI-EAS443:3:74:728:1942#0/1
a]`bab^`¥Uaaaa_`XZWP¥aXQ]`a_aa`Y_[ZP^` [¥
@HWI-EAS443:3:74:753:979#0/1
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+HWI-EAS443:3:74:753:979#0/1
a`^`_aa`aa____`¥^`_][YZ_]_]YH[^`__RXQ[X
@HWI-EAS443:3:74:85:1748#0/1
AAGAAATGCTGGATCTGGTATTATCATTCCAGATACACCA
+HWI-EAS443:3:74:85:1748#0/1
^VRX¥^¥M`YRYTWb_]`P]`U¥]_X_P¥¥LXRU^^X[]
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+HWI-EAS443:3:75:1125:1992#0/1
aa]aaaaa_a__`]_`aa¥_aY____aa_`a_` `^^R_^__
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+HWI-EAS443:3:75:1163:1668#0/1
ab`abbbabba^¥bb`babbbbbbbaabbbbbbbaa_ba_
@HWI-EAS443:3:75:1174:1215#0/1
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+HWI-EAS443:3:75:1174:1215#0/1
aa`TROHWT]_aUa^XaQX_[baUJGWUaaPUNa^^XU`¥
@HWI-EAS443:3:75:1216:1496#0/1
GATAACCGCACCATCCATCTACCATCCCTGTCCACCCCC
+HWI-EAS443:3:75:1216:1496#0/1
HObbbab^GR__¥I_Z]bT]a_ZR¥]]Z_GK^V]` `YFXW
@HWI-EAS443:3:75:1500:425#0/1
ATCTCCTGGGTAACACGTTCCATTGTCTGAACTAGTTGTT
+HWI-EAS443:3:75:1500:425#0/1
QZY_Y^S_aYR_a]`ab`]QZ_]bPPY_`_]_`a`¥Va]`
@HWI-EAS443:3:75:1553:767#0/1
TGCTCGCTGGATCCTGGGAAATCCAGAGTGTGAATCACTC
+HWI-EAS443:3:75:1553:767#0/1
abb[D^aaabZU_aY`aaaaaYX`^ab`bUb]aa¥ZaaV

@HWI-EAS443:3:75:338:1004#0/1
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+HWI-EAS443:3:75:338:1004#0/1
OUba_Q[Z[_baV]`bU^T_Pa^aXWbbHUSa]V¥_a_
@HWI-EAS443:3:75:345:1709#0/1
GAACTAGTTGTTCCACAATGTAGGACCATGAGCTTGCTG
+HWI-EAS443:3:75:345:1709#0/1
[bb`a`b`babab]baba_a_]b^`aaaa_a`__a__`_
@HWI-EAS443:3:75:363:871#0/1
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+HWI-EAS443:3:75:363:871#0/1
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@HWI-EAS443:3:75:552:964#0/1
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+HWI-EAS443:3:75:552:964#0/1
abaab`aaba`aYaa]a[``__`a^¥^aa_a__QZ`_XY
@HWI-EAS443:3:75:734:880#0/1
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+HWI-EAS443:3:75:734:880#0/1
`bVa]_¥_abbaa`b]ab]`M]]bababaa]aR^aaXYV
@HWI-EAS443:3:75:914:1476#0/1
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+HWI-EAS443:3:75:914:1476#0/1
]aaa`bbbbb^^`bba`a¥`abbbb`abab]aaabab]a
@HWI-EAS443:3:76:1284:785#0/1
GAACTAGTTGTTCCACAATGTAGGACCATGAGCTTGCTG
+HWI-EAS443:3:76:1284:785#0/1
¥[]`_WY__ZVa]¥^Z__XWU^TNTV]X¥^RYTXXSZWW]
@HWI-EAS443:3:76:1328:1967#0/1
TGGGTAACACGTTCCATTGTCTGAACTAGTTGTTCCACA
+HWI-EAS443:3:76:1328:1967#0/1
^Y]_ZaaaaW^_]Q[`¥`a`a_]aY_a_TSJW__[S¥V¥
@HWI-EAS443:3:76:1567:1883#0/1
ACGTTCCATTGTCTGAACTAGTTGTTCCACAATGTAGGA
+HWI-EAS443:3:76:1567:1883#0/1
a`]a`_]``_Y^¥^^a___aU__YZZOT]Z¥^W_0[^UW
@HWI-EAS443:3:76:179:1032#0/1
GGGACATCAAGATACAGCAAGAAGGTCAAGCCGGAAATA
+HWI-EAS443:3:76:179:1032#0/1
`bSX]]VNU_QG[____^`N[[RDL]RUNUUVTWXWRU
@HWI-EAS443:3:76:249:435#0/1
CTCCTGGGTAACACGTTCCATTGTCTGAACTAGTTGTTTC
+HWI-EAS443:3:76:249:435#0/1
aabbaabb_`a`aaa^aa`aa_`^`a_`^`^`_`_]_Y]
@HWI-EAS443:3:76:339:1372#0/1
CTCCTGGGTAACACGTTCCATTGTCTGAACTAGTTGTTTC
+HWI-EAS443:3:76:339:1372#0/1
ababba`Waaab_aY``]b_¥___a`_a_^a[^^X]]]
@HWI-EAS443:3:76:431:942#0/1
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+HWI-EAS443:3:76:431:942#0/1
a`a`ZD[a`a`[^]_^[_a`a`_[VR]__^_^^[^^^
@HWI-EAS443:3:76:730:887#0/1
ACGTTCCATTGTCTGAACTAGTTGTTTCCACAATGTAGGA
+HWI-EAS443:3:76:730:887#0/1
aa_]_`^`¥U`a`ZT[_a^`a_a`]`_]`_]VT[^
@HWI-EAS443:3:77:1173:1474#0/1
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+HWI-EAS443:3:77:1173:1474#0/1
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+HWI-EAS443:3:77:179:1309#0/1
a^]P^`^Z¥[P¥Z[_`][QQ[QV^W_^_]`WZW]SXLWW
@HWI-EAS443:3:77:277:1759#0/1
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+HWI-EAS443:3:77:277:1759#0/1
a)`XYWbbaT¥NN¥[_a_^_[QQ_NS^Z^X`P¥^TTJF
@HWI-EAS443:3:77:609:1845#0/1
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+HWI-EAS443:3:77:609:1845#0/1
aa`bbb[¥Ybaba^aababbbaaaa^b^a`aX`U_a`a
@HWI-EAS443:3:77:885:1495#0/1
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+HWI-EAS443:3:77:885:1495#0/1
abbbaaaaba`_J0_bbbbabab_aaaaa_aa]aaa_a`U
@HWI-EAS443:3:78:1119:1453#0/1
TGCTCATTGATGCTGATAACCGTACCATCCATCTACCA
+HWI-EAS443:3:78:1119:1453#0/1
^aabZ]a`^aa^YXUaa`baG]ZMaZH¥[_]a_U_a]M`
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+HWI-EAS443:3:78:1120:1577#0/1
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@HWI-EAS443:3:78:1401:596#0/1
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+HWI-EAS443:3:78:1401:596#0/1
^¥bbY¥¥`^`T¥SV_bYba]aaabbWR¥S`b``aaba^Za
@HWI-EAS443:3:78:312:506#0/1
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+HWI-EAS443:3:78:312:506#0/1
aaaaa`YaG^`aa`][`_`a`_W`_^][U[K_NTWW_Z^
@HWI-EAS443:3:78:344:1439#0/1
ACACGTTCCATTGTCTGAACTAGTTGTTTCCACAATGTAG
+HWI-EAS443:3:78:344:1439#0/1
aaa```_a_`^Y]_`_`a`^`aZ`_]a_¥_`^`_`_W]W
@HWI-EAS443:3:78:380:1803#0/1
CGGGAGACAAAATAACATTCGAAGCAACCGGAAATCTAGT
+HWI-EAS443:3:78:380:1803#0/1
`ZZU¥¥^a^`][ZQ_a)`Z_][^Z_`ZTV^`]^`^]S

@HWI-EAS443:3:78:483:1150#0/1
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+HWI-EAS443:3:78:483:1150#0/1
aaaYaaaaaaaa`]`aaaX`a`a[aa_]`^a`a`_`_`_`^`
@HWI-EAS443:3:78:787:895#0/1
GAACTAGTTGTTTCCACAATGTAGGACCATGAGCTTGCTG
+HWI-EAS443:3:78:787:895#0/1
¥_b`_`_]`b^b_]`^aa`bb`[^¥`a]^a`a`_`a`_`a`a`
@HWI-EAS443:3:79:1117:510#0/1
CTTGGGTGTCTGACAAGTTATATTGCAATCGTGGACTGGT
+HWI-EAS443:3:79:1117:510#0/1
aa`U`^R_[a]U^ZZX_W`a]]baY_OW]W^¥R^_¥¥`Y`
@HWI-EAS443:3:79:1125:1496#0/1
GAACTAGTTGTTTCCACAATGTAGGACCATGAGCTTGCTG
+HWI-EAS443:3:79:1125:1496#0/1
aaaa`a]N_aZaaa[a`aa][a[_]`]`¥^]YYa_¥L¥_
@HWI-EAS443:3:79:1249:801#0/1
CACTAGTAGATGGATGGTGAATGCCCCATAGCAGGAGGAC
+HWI-EAS443:3:79:1249:801#0/1
S_W^_¥a^_^[^X^aaaba¥^a^_0]ab_YX]G]VXRVP
@HWI-EAS443:3:79:1283:1231#0/1
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+HWI-EAS443:3:79:1283:1231#0/1
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@HWI-EAS443:3:79:1317:171#0/1
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+HWI-EAS443:3:79:1317:171#0/1
ab]`a`_`_`b^U]aab`^`_`aabb`_`_`a_¥TbZZUU^Y`
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GCCGGGTGACAAAATAACATTCCAAGCAACTGGAATCTA
+HWI-EAS443:3:79:1347:592#0/1
¥F[¥a__YUR__ORO¥WZ^UZNYTX[XY_[^`]^`_a]aJ
@HWI-EAS443:3:79:1437:1249#0/1
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+HWI-EAS443:3:79:1437:1249#0/1
ab`^^`_`baaaa__aaa[Kaa[a`aa`]¥_`aYa_¥V^a
@HWI-EAS443:3:79:1451:676#0/1
CACGTTCCATTGTCTGAACTAGTTGTTTCCACAATGTAGG
+HWI-EAS443:3:79:1451:676#0/1
Z_aa^a_Z_a]a¥[_^ZaW_____R`_¥LM^R__¥P¥`¥[
@HWI-EAS443:3:79:1702:1252#0/1
ACACGTTCCATTGTCTGAACTAGTTGTTTCCACAATGTAG
+HWI-EAS443:3:79:1702:1252#0/1
```ab`b\_aaabS`R`¥V¥[a`a`aa`a\_[Y\_\_^\_]\_Y\_Z  
@HWI-EAS443:3:79:1704:764#0/1  
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+HWI-EAS443:3:79:1704:764#0/1  
`\_^b\_[ZZ¥¥WXRQS`¥X¥]`Z]]a\_RRPFXY¥Q\_U]STX  
@HWI-EAS443:3:79:36:1675#0/1  
CTGCTGTTAACTGTGTATTTCATCTTTTCAATAACAGAATT

+HWI-EAS443:3:79:36:1675#0/1  
a\_\_^T]QFL]^WTR\_U[V[^YW]\_^]Y`ZOS^S\$UWM[]]  
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CACGTTCCATTGTCTGAACTAGTTGTTTCCACAATGTAGG  
+HWI-EAS443:3:79:436:1646#0/1  
aba\_]\_abab`a\_^\_aa\_aa`\_\_^`a^`\_a` `^\$`\_US\_VX  
@HWI-EAS443:3:79:618:1209#0/1  
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+HWI-EAS443:3:79:618:1209#0/1  
ababb^baa\_\_b\_bb^b`\_aaaaabZaa]a`a\_aYa\_[a  
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+HWI-EAS443:3:79:758:1005#0/1  
ab[¥\_b`\_`aZ`aa¥Zaa[ZX]]\_]`\_a`aa^]``[ `[PX  
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+HWI-EAS443:3:79:776:1899#0/1  
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@HWI-EAS443:3:79:953:26#0/1  
AAGTCATGGTCTACATTGTGGAAACAAGTTCAGAC  
+HWI-EAS443:3:79:953:26#0/1  
aabbbb\_bbb\_]`\_aaaabbabba`a\_aa¥\_abaa^\_a`\_  
@HWI-EAS443:3:7:1469:776#0/1  
AAACAATGCCAAGGAAATTGGAAACGGCTGGTTTGAATTT  
+HWI-EAS443:3:7:1469:776#0/1  
abb`aaba\_]Z¥ba\_\_`aaaa¥^\_\_`a^a]MQ^^FOVZ\_B  
@HWI-EAS443:3:7:1688:608#0/1  
GGGACATCAAGATACAGCAAGAAGTTCAAGCCGGGAATA  
+HWI-EAS443:3:7:1688:608#0/1  
^]¥]`VaaR`\_a^a\_\_`aV`\_]^[aX]\_¥^VOG\_]V¥V]X  
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+HWI-EAS443:3:7:1782:1624#0/1  
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+HWI-EAS443:3:7:38:1046#0/1  
aa\_b\_abba^[\_]\_JaabaaY\_]aaaa\_aaa^]¥aa`aa  
@HWI-EAS443:3:7:491:1608#0/1  
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+HWI-EAS443:3:7:491:1608#0/1  
ab`^U[GY\_[¥^Xab]a`a^]J^a^YIa^Y[WR]]GV¥R[  
@HWI-EAS443:3:7:513:1147#0/1  
ATGCCAAGGAAATTGGAAACGGCTGGTTTGAATTTTACCA  
+HWI-EAS443:3:7:513:1147#0/1  
\_bb`baabb\_\_RZ\_b[Y` ` \_baaabIaaaVVZ\_\_a\_UFMZ  
@HWI-EAS443:3:7:547:789#0/1  
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+HWI-EAS443:3:7:547:789#0/1  
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+HWI-EAS443:3:7:634:581#0/1  
aVba\_Yab¥V¥I`\_Ta]¥XS\_0\_U]`^^^\_W^]\_aX\_`  
@HWI-EAS443:3:7:691:1347#0/1  
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+HWI-EAS443:3:7:691:1347#0/1  
[a[[aab]]a[ab[^X`[QH[]^¥\_a¥^QWX]]XYZV^BB  
@HWI-EAS443:3:80:1654:1395#0/1  
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+HWI-EAS443:3:80:1654:1395#0/1  
`Y`a`^[b^ba`aY]Z^aaa]WX\_\_¥\_NZSDXa^]\_^Y`U  
@HWI-EAS443:3:80:1769:1241#0/1  
GGGGACATCAAGATACAGCAAGGAGTTCAAGCCGAAATA  
+HWI-EAS443:3:80:1769:1241#0/1  
a\_[[UVTXTHXP^]Z¥YLY\_] [L[VVR\_UZTT¥\_VMPPY  
@HWI-EAS443:3:80:253:750#0/1  
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+HWI-EAS443:3:80:253:750#0/1  
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@HWI-EAS443:3:80:710:249#0/1  
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+HWI-EAS443:3:80:710:249#0/1  
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+HWI-EAS443:3:81:118:698#0/1  
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+HWI-EAS443:3:81:127:1492#0/1  
aaa`RWOXY[W`P`\_L^]a]ZXRS\_ZWSN[Y^\_UYVTTS^  
@HWI-EAS443:3:81:1421:1858#0/1  
AGAAGTTTGGACTACCACGATTAATAATGTGAAGAACTTAT  
+HWI-EAS443:3:81:1421:1858#0/1  
`T\_]\_¥R\_b]]`W[LababW\_\_XLJab]I]`ab`]P[[S`  
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+HWI-EAS443:3:81:1665:474#0/1  
ab`bababaa\_baa\_aaaaa¥`^`a\_aa`^^`\_aZa\_a\_^]  
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GCCGGTTTCATTGAAGGGGGCGGACAGGGATGGTAGATG  
+HWI-EAS443:3:81:1757:1661#0/1  
^[ZaXOUS[¥TTbPL[G]¥¥UJRSBBBBBBBBBBBBBBBB  
@HWI-EAS443:3:81:220:1927#0/1  
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+HWI-EAS443:3:81:220:1927#0/1  
W`\_]X`WXXa`b¥Z^`ab¥]Z]b¥GZ¥IWaWabT^¥Tbba  
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ACGTTCCATTGTCTGAACTAGTTGTTTCCACAATGTAGGA  
+HWI-EAS443:3:81:292:158#0/1  
¥Z¥a^`QZXWWTV`b`YYZN`[\_b[^WO[W]P¥[\_\_\_`]X[  
@HWI-EAS443:3:81:521:910#0/1  
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+HWI-EAS443:3:81:521:910#0/1  
aaaaaa`\_\_a]aa`a\_`V`^`a]`\_`^`\_\_\_\_\_¥]\_\_`^`^`  
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+HWI-EAS443:3:81:639:1477#0/1  
```^abaaa`]aa¥a^\_U`[``][`\_a\_W\_Y`a^U[ZV]V¥  
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CTCCTGGGTAACACGTTCCATTGTCTGAACTAGTTGTTTC
+HWI-EAS443:3:81:884:1324#0/1
a]a`_bbbU¥_`^`[`Z```__`a`U_aa`a¥``a^^a`Z^`
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+HWI-EAS443:3:82:113:1810#0/1
aaaa^P`XYMXaU[¥V]a^_USH^_Y[]`^Y^WRVRYVWV
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+HWI-EAS443:3:82:1308:1645#0/1
abba`ababaaaaQaba`0`Z`Sa[`aaZ^a^`aa_X`]
@HWI-EAS443:3:82:1393:771#0/1
GGGTGGGCAGGGATGGTAGATGGATGGTACGGTTATCACC
+HWI-EAS443:3:82:1393:771#0/1
]^WV_Y`_`a^a^]^a^D[`Z]abaW`]V`]^W¥_TLYUQ
@HWI-EAS443:3:82:384:1432#0/1
ACGTTCCATTGTCTGAACTAGTTGTTTCCACAATGTAGGA
+HWI-EAS443:3:82:384:1432#0/1
a`^OTVX¥b[P¥¥a]a`TaVH^b]Taa^SZ_b``HG¥`M¥
@HWI-EAS443:3:82:730:1905#0/1
GCAGGGGGCAGGATATGCAGCCGACCTGAAGAGCACACAG
+HWI-EAS443:3:82:730:1905#0/1
aa¥[`ZWDMZZT^`_`X¥KU`S¥]VY[RVY[[R^¥GZV^
@HWI-EAS443:3:82:891:1071#0/1
CTAGTTGTTTCCACAATGTAGGACCATGAGCTTGCTGTGG
+HWI-EAS443:3:82:891:1071#0/1
a`Y```bbbbbabbbbbb[]b]a`aabbabbbbbb`bbbba
@HWI-EAS443:3:83:1001:2026#0/1
CAGGGGGCAGGATATGCAGCCGACCTGAAGAGCACACAGA
+HWI-EAS443:3:83:1001:2026#0/1
T`aab_H`bbaba`Zb¥`aQP`[^]^ab^bba_]_`baa^
@HWI-EAS443:3:83:1217:910#0/1
ACACGTTCCATTGTCTGAACTAGTTGTTTCCACAATGTAG
+HWI-EAS443:3:83:1217:910#0/1
a`ba_V_a`aaaa`abb`_`^aaa``^_a__YY¥Ya``U¥`

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+HWI-EAS443:3:83:1270:1168#0/1
a¥YXa`aSb[[[aVD¥a^M^_X__XaQ_`¥UPPM_TWS_Y
@HWI-EAS443:3:83:1437:771#0/1
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+HWI-EAS443:3:83:1437:771#0/1
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@HWI-EAS443:3:83:1471:617#0/1
GCCAGTTAAAAACAATGCCAAGCAAATTGGAAACGGCTG
+HWI-EAS443:3:83:1471:617#0/1
`W[^a`aa``aa]S`a_aMRU_POV_¥_Y_¥¥^YSVVU^R
@HWI-EAS443:3:83:1515:1146#0/1
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+HWI-EAS443:3:83:1515:1146#0/1
aabbby`__`b^_bb_a]D]RWY`b`b_aaaaabXaba` [`
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+HWI-EAS443:3:83:20:150#0/1
aaa`__Y]aZZ¥L[Z^_HXNTX`RYLTUXU[[WTZBBBBBB
@HWI-EAS443:3:83:400:1854#0/1
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+HWI-EAS443:3:83:400:1854#0/1
aaaYRY^^ab^_]H]`S]`_]`_YS^_]^^_]X[U[]00Z
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AAAACAATGCCAAGGAAATTGGAAACGGCTGCCTTGAATT
+HWI-EAS443:3:83:652:1221#0/1
a^Obaaaa`]aV]a_¥Y_`_`^Y[_`aW]XSOIX]MIDJ¥
@HWI-EAS443:3:83:841:1351#0/1
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+HWI-EAS443:3:83:841:1351#0/1
aaa`_baaaZa__a_a` [Y]WY^`__` [XXH[_`¥`¥]_
@HWI-EAS443:3:84:1184:465#0/1
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+HWI-EAS443:3:84:1184:465#0/1
a`a`bb`_Uaabaaa`aa^aab`_aaaa^aaa]aaaa^Z
@HWI-EAS443:3:84:1528:659#0/1
GGCATTCTGTGTGCTCTTCAGGTCGGCTGCATATACTGAC
+HWI-EAS443:3:84:1528:659#0/1
a`a`ab`_b[`abIaaaaa[aa_U^TT`a_a`bUUQaPMK
@HWI-EAS443:3:84:1676:523#0/1
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+HWI-EAS443:3:84:1676:523#0/1
a]W``ZY`_aa`Y^_N¥V^U`^a[[[a[0]]U` [¥[V^_[L
@HWI-EAS443:3:84:200:674#0/1
AATGGAACGTGTTACCCGGGAGATTTTCATCGATTATGAGG
+HWI-EAS443:3:84:200:674#0/1
`]R^PNZ_aYYY]^^a^M^[Z`WV^[VUV_¥MVVV]]Y]Y
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GCTTCCTCTGAGTATTTTGGGTAGTCATAAGTCCCCTTTT

+HWI-EAS443:3:84:40:852#0/1
^¥UXbb_[^^aa0¥]``T_`ZMXHOJTH]¥Y_`YG¥U¥[
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ACACGTTCCATTGTCTGAACTAGTTGTTTCCACAATGTAG
+HWI-EAS443:3:84:551:1607#0/1
aabaaaabaa`a_`aa`aaa]a^aa`a`__`a`^]__
@HWI-EAS443:3:84:794:818#0/1
GCTCCTCATAATCGATGACATCTCCTGGGTAACACGTTCC
+HWI-EAS443:3:84:794:818#0/1
aa`a`aaaa`aaa`aa_S]aa`a_`a_]_¥`a__^^_[
@HWI-EAS443:3:85:1028:666#0/1
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+HWI-EAS443:3:85:1028:666#0/1
ab`WIRZbb]b]QWX^a_TaR`¥PaTba^]G[Y`a^aaa_
@HWI-EAS443:3:85:1036:915#0/1
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+HWI-EAS443:3:85:1036:915#0/1
aaa`a^X^^aaaa`aa_X^`_aa`T`a^a^_aaV`a_a` [
@HWI-EAS443:3:85:1075:1327#0/1
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+HWI-EAS443:3:85:1075:1327#0/1
aaWZ_`aa_Y¥aa^V¥]^WDV_[[]__Za`^`¥_¥^¥_^¥
@HWI-EAS443:3:85:1149:282#0/1
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+HWI-EAS443:3:85:1149:282#0/1
a¥baa[OUaTOQ^aa`^aW[_^`_`_`¥UY]V__X]]`^R
@HWI-EAS443:3:85:116:1086#0/1
CACGTTCCATTGTCTGAACTAGTTGTTTCCACAATGTAGG
+HWI-EAS443:3:85:116:1086#0/1
abaaaa`aaaa__aaaa_`_`^`a____`_]__`__Y_]]
@HWI-EAS443:3:85:162:943#0/1
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+HWI-EAS443:3:85:162:943#0/1
aaa`a`a`_W`a_a__^]`]`¥_^Y__^¥_]¥Z^Y_]W^
@HWI-EAS443:3:85:299:977#0/1
ACGTTCCATTGTCTGAACTAGTTGTTTCCACAATGTAGGA
+HWI-EAS443:3:85:299:977#0/1
aaaZSaa_`a^` `[X_`a]`U_^]__`[`_]]^]]
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ACGTTCCATTGTCTGAACTAGTTGTTTCCACAATGTAGGA
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@HWI-EAS443:3:85:414:1536#0/1
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+HWI-EAS443:3:85:414:1536#0/1
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+HWI-EAS443:3:85:620:1295#0/1
aab`^aa]b_aab[aab]a^_a`aaa`^aaaa`^a^]__`
@HWI-EAS443:3:86:1022:1352#0/1
ACGTTCCATTGTCTGAACTAGTTGTTTCCACAATGTAGGA
+HWI-EAS443:3:86:1022:1352#0/1
abaaa`_`aa_`^`aaaa`_``^`¥`aa_]`[]``Y_[VY
@HWI-EAS443:3:86:1185:1241#0/1
ACGGTTATCACCATCAAATGAGCAGGGGGCAGGATATGC
+HWI-EAS443:3:86:1185:1241#0/1
XT_b`¥`^W`Ra`b]_aa`X`a`U`b`a`Gaaab^a`_`G
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+HWI-EAS443:3:86:1286:546#0/1
`_ababbbbababbbbbb`bbbb_N¥`a`a^baaabaa_`b
@HWI-EAS443:3:86:1288:1593#0/1
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+HWI-EAS443:3:86:1288:1593#0/1
[T^X^bb^bb__H_`aZU¥¥_`bba[F]a^^a`P¥b^¥^`
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ACGTTCCATTGTCTGAACTAGTTGTTTCCACAATGTAGGA
+HWI-EAS443:3:86:1470:258#0/1
aa`_a^aaaa_[]b`]a_a]``]]]aaZR_[_`^]SY__X
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+HWI-EAS443:3:86:1488:1229#0/1
a`_`¥`bbbY`baaa_bb_]ab`KYabba`a^S_^^a[aa`
@HWI-EAS443:3:86:301:1974#0/1
ACGTTCCATTGTCTGAACTAGTTGTTTCCACAATGTAGGA
+HWI-EAS443:3:86:301:1974#0/1
`_] [aaaa`a`_a`_``aa`_`]¥a_`^`a_```__ [U`]]^
@HWI-EAS443:3:86:376:1848#0/1
TGACAAGTAGTATTGCAATCGTGGACTGGTGTATCTGAAA
+HWI-EAS443:3:86:376:1848#0/1
abb_¥ab_ba_b_a_]b^aa`]a]aa_aa^a]aa[a_Y^_
@HWI-EAS443:3:86:379:1464#0/1
GGGGACATCAAGATACAGCAAGAAGTTCACGCCGGAATA
+HWI-EAS443:3:86:379:1464#0/1
aa[_T]]Y^a] []X[`a¥`^]RV]GN_NH¥_^^_NVPYM
@HWI-EAS443:3:86:565:1755#0/1
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+HWI-EAS443:3:86:565:1755#0/1
aa_baa_baaaa`aaaabaa¥abb`_Za^¥]ba`_¥]`^]
@HWI-EAS443:3:86:665:817#0/1
TCCTGGGTAACACGTTCCATTGTCTGAACTAGTTGTTTCC
+HWI-EAS443:3:86:665:817#0/1
aa`a]RON_`aa__S```X[] [Xaa`P^P`¥[QZ]_a^_`
@HWI-EAS443:3:86:770:57#0/1
CTCCTGGGTAACACGTTCCATTGTCTGAACTAGTTGTTTC

+HWI-EAS443:3:86:770:57#0/1
`baaaaaa_]Y_YZYa]____]_¥^`aY_^`SaZ¥[Z_^]
@HWI-EAS443:3:86:800:411#0/1
GTTCCATTGTCTGAACTAGTTGTTCCACAATGTAGGACC
+HWI-EAS443:3:86:800:411#0/1
aMa¥]^[_UXa^`a^Z__`S]aYa__`_]^^aVY`^W^]
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+HWI-EAS443:3:86:886:568#0/1
aT]abaaYL[`ZQ]X_]a`¥`^ab_a_S`_]U[aZ_W¥¥
@HWI-EAS443:3:86:951:691#0/1
GAAACAACACTAGTTCAGACAATGGAACGTGTACCCAGGAG
+HWI-EAS443:3:86:951:691#0/1
ab_^ba^][a[Va^W___^ab`^a__aY`[a`Y_Ya`P`_
@HWI-EAS443:3:87:1002:1693#0/1
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+HWI-EAS443:3:87:1002:1693#0/1
aba[_bb¥¥b^^]abaab`aab_`ZRaKa_bGa_Ta[Ua_
@HWI-EAS443:3:87:1152:29#0/1
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+HWI-EAS443:3:87:1152:29#0/1
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@HWI-EAS443:3:87:1297:1130#0/1
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+HWI-EAS443:3:87:1297:1130#0/1
R`a¥aX^b^UYWa`La¥¥R¥aa¥a^^[^^`a_a_¥T]YF_
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+HWI-EAS443:3:87:1653:562#0/1
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+HWI-EAS443:3:87:184:1350#0/1
_X`WXDR]VWW¥``_UWZVJJJSTY^ZRPR¥LS¥^_]T_X
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+HWI-EAS443:3:88:1179:1315#0/1
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@HWI-EAS443:3:88:1231:532#0/1
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+HWI-EAS443:3:88:1231:532#0/1
`¥]]][Y`^]^__a^¥S`YT__a]_aXM_[a¥`a_¥a¥_S_
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+HWI-EAS443:3:88:1382:595#0/1
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+HWI-EAS443:3:88:1412:1164#0/1
^`^bU¥¥Q`]^`^][`¥0__b`_a`_Za_[¥WG_]`^a_aba

+HWI-EAS443:3:89:794:1131#0/1
a_Z_b^T¥bZ__MT`bb]b`aW¥`J`0`bX¥aa]PZZa`
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TGTGGGGACATCAAGATACAGCAAGAAGTTAAAGCCGGAA
+HWI-EAS443:3:8:1161:474#0/1
aa¥a^a_]U_[[_a^_a__a]_aa`[_]YGY]^]Wa]]_`
@HWI-EAS443:3:8:1223:1335#0/1
GTCTGAACTAGTTGTTTCCACAATGTAGGACCATGAGCTT
+HWI-EAS443:3:8:1223:1335#0/1
`W`¥`]S]``Paa`bb^SbWa`]`R^`¥¥OMV^X`[Sa_
@HWI-EAS443:3:8:1448:1562#0/1
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+HWI-EAS443:3:8:1448:1562#0/1
aT]]R`]aJ]YaT`YX_a_`^S_RV¥RP_VPYTG`VFN_¥
@HWI-EAS443:3:8:1484:832#0/1
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+HWI-EAS443:3:8:1484:832#0/1
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@HWI-EAS443:3:8:1609:498#0/1
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+HWI-EAS443:3:8:1609:498#0/1
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+HWI-EAS443:3:8:1639:65#0/1
aa_aaab_[_ba^__a_aa]¥]Xa^WZVDKU¥GKTUXBB
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+HWI-EAS443:3:8:205:290#0/1
aa_`^`Z`R]_aa_a__`a_^Y¥]a][_]__^`XZVX¥_¥
@HWI-EAS443:3:8:329:1736#0/1
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+HWI-EAS443:3:8:329:1736#0/1
__X`]a`a¥N_aIY`[_FNa0][XXaaNPGT[¥GX]QBB
@HWI-EAS443:3:8:446:741#0/1
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+HWI-EAS443:3:8:446:741#0/1
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+HWI-EAS443:3:8:454:1654#0/1
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+HWI-EAS443:3:8:581:1391#0/1
aba__aabba`baaba_a`^aa]a__aa_aaaaa_`Xa_V
@HWI-EAS443:3:8:720:1695#0/1
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+HWI-EAS443:3:8:720:1695#0/1
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@HWI-EAS443:3:8:764:1232#0/1
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+HWI-EAS443:3:8:764:1232#0/1
^T^bZaa^VYYZ[W#bZaVOF]V^[Paaw]Z#`RHRJ[_
@HWI-EAS443:3:8:821:1827#0/1
GCTGGTGGTTATAGCACCTTGGGTGTCTGACAAGTTGTA
+HWI-EAS443:3:8:821:1827#0/1
aa`[aYZI]aaSaa]]aX[NUU__U]VNZ_`N___PY_VB
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+HWI-EAS443:3:8:842:379#0/1
`aa`^^a^aa`a]a^a`#`a^a`_#`_a^___W_____]
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+HWI-EAS443:3:8:899:754#0/1
#W^_^[aZ^Za^a^^^_#YZ^bWX]#aaaab`Z^a__
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+HWI-EAS443:3:90:1090:23#0/1
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+HWI-EAS443:3:90:1189:1778#0/1
aaaa`aa`[^]R#V]X]H_]XXX^[Y^G]QXT`MW]YPP^
@HWI-EAS443:3:90:1281:149#0/1
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+HWI-EAS443:3:90:1281:149#0/1
[_[_U_#__WUT]^ZZT[W##_WFZZUTWQZRZ#X]SM_`
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+HWI-EAS443:3:90:1665:1866#0/1
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+HWI-EAS443:3:90:1682:1147#0/1
H^a_b]]`b`bb#bU_#bbbYba`_a`[b]bZaaabb#`b
@HWI-EAS443:3:90:25:1392#0/1
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+HWI-EAS443:3:90:25:1392#0/1
abb)`aX`a]a`aaV]_X`TU__aUSXXKYZ#UXZ[N_W
@HWI-EAS443:3:90:385:1565#0/1
GAACTAGTTGTTTCCACAATGTAGGACCATGAGCTTGCTG
+HWI-EAS443:3:90:385:1565#0/1
abab]S]_aa#abaabaa_YUaaSP#``_[V]S_]____
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+HWI-EAS443:3:90:463:1297#0/1
aaaba`baa#`^`Zaaa`b#^[`Z`^`[a]b_TU^`Y_a
@HWI-EAS443:3:90:567:500#0/1
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+HWI-EAS443:3:90:567:500#0/1
a^`abaaaaa_a`aaaa`aa`__]aaa_a_``]`aV
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+HWI-EAS443:3:90:690:796#0/1
]a`Y``__^bWRZ_¥_YX_¥Y_aZ]LZ`a][]`ZWM[[¥Y
@HWI-EAS443:3:90:803:853#0/1
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+HWI-EAS443:3:90:803:853#0/1
aa`bb_aZTY`JX`aa`b[T_baaab_]`_aYbJ_a_a_b
@HWI-EAS443:3:90:819:304#0/1
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+HWI-EAS443:3:90:819:304#0/1
_abb^Yaba_a_^]`b^Uab^a```]`WGU^aa^X_`^`
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+HWI-EAS443:3:90:829:1035#0/1
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@HWI-EAS443:3:90:830:1709#0/1
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+HWI-EAS443:3:90:830:1709#0/1
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+HWI-EAS443:3:91:1087:876#0/1
`¥_U`^V]OWN[ZX`¥X]P_WP`^][WZRXL[XSS^Z
@HWI-EAS443:3:91:1095:698#0/1
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+HWI-EAS443:3:91:1095:698#0/1
_`aa_baa_a_b`a¥ba`Z_[]^bYZa`aa`S`X_a^aaa
@HWI-EAS443:3:91:1356:772#0/1
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+HWI-EAS443:3:91:1356:772#0/1
aaaU¥¥a[[a``_b__a`^_a_aa__`^]_[[_TTN^^Z_
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+HWI-EAS443:3:91:1458:2015#0/1
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+HWI-EAS443:3:91:1772:471#0/1
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@HWI-EAS443:3:91:190:1630#0/1
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+HWI-EAS443:3:91:190:1630#0/1
abbbb_bb_ababa`abaaaa^_aaa`a`aaa[_`^^`[
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+HWI-EAS443:3:91:242:942#0/1
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+HWI-EAS443:3:91:443:898#0/1
`a¥aa`[aba^bbb¥`^¥X¥abb`^abbZT]]a^Q¥[X
@HWI-EAS443:3:91:623:1191#0/1
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+HWI-EAS443:3:91:623:1191#0/1
abbaaaY`baaaaaZaaa```a_a_`a_`aa`aY]Y__W`
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+HWI-EAS443:3:91:925:1950#0/1
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+HWI-EAS443:3:91:937:1218#0/1
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+HWI-EAS443:3:92:1102:103#0/1
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+HWI-EAS443:3:92:1151:1586#0/1
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+HWI-EAS443:3:92:1330:1149#0/1
aaa`aaaab¥bb`a`aaa`baaaXabaa```]a`bZ[_b_
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+HWI-EAS443:3:92:1449:526#0/1
V¥_Sa`X`b^^[F[a¥a`NN_TT[`]``a__a_OS][^]]
@HWI-EAS443:3:92:1465:1832#0/1
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+HWI-EAS443:3:92:1465:1832#0/1
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@HWI-EAS443:3:92:1648:458#0/1
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+HWI-EAS443:3:92:1648:458#0/1
`a`bab_aa^b]aabbbaYbbb`aa`aaaa¥H]`aaS^a_
@HWI-EAS443:3:92:1660:749#0/1
ACACGTTCCATTGTCTGAACTAGTTGTTTCCACAATGTAG
+HWI-EAS443:3:92:1660:749#0/1
aaaabb`aaaaba`_a_`Sa`R¥aa_`a`SW]__`_]_
@HWI-EAS443:3:92:234:417#0/1
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+HWI-EAS443:3:92:234:417#0/1
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+HWI-EAS443:3:92:237:31#0/1
ab^a]a__aXabW`aaaaW¥`a][a^Y]]Y]PWN]`PU]^
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+HWI-EAS443:3:92:385:47#0/1
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+HWI-EAS443:3:92:782:755#0/1
a`a`_]_SXZX¥¥¥abaR[_T_^a_____])_]U[a]____^
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+HWI-EAS443:3:92:820:823#0/1
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@HWI-EAS443:3:92:853:656#0/1
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+HWI-EAS443:3:92:853:656#0/1
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@HWI-EAS443:3:92:895:115#0/1
GCTTCCTCTGAGTATTTTGGGTAGTCATAAGTACCATTTT
+HWI-EAS443:3:92:895:115#0/1
a__`]^^L^_`0____`_[_]WVZTFNXYX_LLHRX]¥]^
@HWI-EAS443:3:92:977:962#0/1
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+HWI-EAS443:3:92:977:962#0/1
ab]SbV^`b]]^``[[`RQJ_]`aZW[_`NI^a_`]aHYY
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+HWI-EAS443:3:93:1209:1858#0/1
a_aaV[_VN¥Y¥X^]UW`aZPSLGPFERS`_UTXYUX[Q
@HWI-EAS443:3:93:1309:1089#0/1
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+HWI-EAS443:3:93:1309:1089#0/1
a¥]S¥S]_P[`QUS^_KT¥[YKaSGPRJ[USU[UGUSBBB
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+HWI-EAS443:3:93:1332:1588#0/1
U`VZ^[YQ]`RJ^aabTa¥_`aaa¥aPYW[[¥XPTF]_]`
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+HWI-EAS443:3:93:1370:1129#0/1
a`_b`b`abaaaa_a`a`_a^aaa¥Z^aa^_aZ`_aZ``_`
@HWI-EAS443:3:93:1499:751#0/1
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+HWI-EAS443:3:93:1499:751#0/1
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+HWI-EAS443:3:93:1790:419#0/1
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@HWI-EAS443:3:93:437:1970#0/1
ATCTCCTGGGTAACACGTTCCATTGTCTGAACTAGTTGTT
+HWI-EAS443:3:93:437:1970#0/1
_W]^_aXNSXORZ[_`XX]__aW[]O__XW^MZZXQ¥^ZB
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+HWI-EAS443:3:93:817:1697#0/1
^a`U)`aa^W^T[Z`_a]_S)`[_Y_`_]YFQ[[_`Z__VB
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GGGTAACACGTTCCATTGTCTGAACTAGTTGTTTCCACAA
+HWI-EAS443:3:93:855:525#0/1
`a`__`aa`_____¥_¥YX^`a_[W__[]]_^]X]X]Z
@HWI-EAS443:3:93:941:435#0/1
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+HWI-EAS443:3:93:941:435#0/1
a`ababaaabaaaabaaa`aab`aa_aa_^a)`]]X____
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+HWI-EAS443:3:94:100:926#0/1
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@HWI-EAS443:3:94:1139:1166#0/1
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+HWI-EAS443:3:94:1139:1166#0/1
]¥[_Q[_¥X__TP]_X]N^``_¥[_aR¥`^WVRV`Y^_
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+HWI-EAS443:3:94:1434:1709#0/1
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@HWI-EAS443:3:94:1636:1577#0/1
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+HWI-EAS443:3:94:1636:1577#0/1
UU`baaa[RZba`G^b¥`_b_b¥]Waa`Y`[_a]¥`_Z¥_^
@HWI-EAS443:3:94:866:84#0/1
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+HWI-EAS443:3:94:866:84#0/1
_X¥`aX`^¥_KR¥Y`G^aX¥PaVKN^`XUZYZR^XFNSRBB
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+HWI-EAS443:3:95:1202:1574#0/1
a_aaaaaab`a[___a__a]`_aa_`]aaRa]___`a`Z¥_H
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+HWI-EAS443:3:95:1667:1734#0/1
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+HWI-EAS443:3:95:1740:1302#0/1
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@HWI-EAS443:3:95:1767:310#0/1
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+HWI-EAS443:3:95:1767:310#0/1
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+HWI-EAS443:3:95:194:606#0/1
`aabX^bbbaaWaaaYa`_R`PU_a^`_[aZ`_^¥[¥__Y_
@HWI-EAS443:3:95:205:247#0/1
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+HWI-EAS443:3:95:205:247#0/1
aaaaabaaa[aaaa`aaaa__`aaa__a^a_a`¥`_]_Z]
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+HWI-EAS443:3:95:607:295#0/1
a`a_a¥`_`a`_a`[]`_`¥^a___a^aW`Y`_U]_¥Y
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+HWI-EAS443:3:95:796:1370#0/1
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+HWI-EAS443:3:95:813:801#0/1
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@HWI-EAS443:3:96:1071:1252#0/1
GAAGTCCTCGTGCTATGGGGCATTCCACAATCCATCTACTA
+HWI-EAS443:3:96:1071:1252#0/1
aaaa^`_`aa__UY]aa[XSWLZ_¥¥MFM_SN`^W^aWY¥
@HWI-EAS443:3:96:339:1058#0/1
GAAGCCAGTTAAAAAATAATGCCAAGGAAATTGGAAACGG
+HWI-EAS443:3:96:339:1058#0/1
aab`¥`Yaaa`]UVV[F]aaa¥[`YY``__a^`_]_aUBB
@HWI-EAS443:3:96:562:712#0/1
ATAATCGATGAAATCTCCTGGGTAACACGTTCCATCGTCT
+HWI-EAS443:3:96:562:712#0/1
abbbb`baabaaaaa`aaa`a__^Ya`a^`]]`^`[a^¥_
@HWI-EAS443:3:96:775:1114#0/1
CGTTCCATTGTCTGAACTAGTTGTTTCCACAATGTAGGAC
+HWI-EAS443:3:96:775:1114#0/1
`WMWR]NXN_V¥W`^W]¥^aQZ_¥X]YJQ¥UYQTXFU]TB
@HWI-EAS443:3:97:1082:266#0/1
GAGTATTTTGGGGAGTCATAAGTCCCATTTTTGACACTTT
+HWI-EAS443:3:97:1082:266#0/1
Z__RZaa^```TF¥aTX_aV^`a]TN_b```¥a_N_Ua_a

@HWI-EAS443:3:97:1549:369#0/1
CTTCTTGCTGTATCTTGATGTCACCACAAAAACATATGCA
+HWI-EAS443:3:97:1549:369#0/1
`bb[bab`ba[_aJabbb`UaIPS^H^aaba_aab`]S¥
@HWI-EAS443:3:97:423:1903#0/1
ACGTTCCATTGTCTGAACTAGTTGTTTCCACAATGTAGGA
+HWI-EAS443:3:97:423:1903#0/1
a_^__`^a^^SZ]`[_W_`UY^`^^_N¥0_XRYW]]0^
@HWI-EAS443:3:97:902:2007#0/1
CTGGCTGGATCCTGGGAAATCCAGAGTGTGAATCAGTCTC
+HWI-EAS443:3:97:902:2007#0/1
L^a]Z¥Z`_¥Z_____bab_ab]ZabbaaTbb_aT_HU¥ba
@HWI-EAS443:3:98:1296:1710#0/1
ACACGTTCCATTGTCTGAACTAGTTGTTTCCACAATGTAG
+HWI-EAS443:3:98:1296:1710#0/1
aaa`a[bWJ[aaaV_abWaG__`]aaZ`][0^]a__`X`_
@HWI-EAS443:3:98:1676:1113#0/1
CGGATGGATATTCTGAAATGGGAGGCTGGTGTATAGCA
+HWI-EAS443:3:98:1676:1113#0/1
abb][¥\$[_bK¥QL¥^b`bZabbVbJHK]]ZYUb[[Y_a
@HWI-EAS443:3:98:284:1231#0/1
CTCCTGGGTAACACGTTCCATTGTCTGAACTAGTTGTTTC
+HWI-EAS443:3:98:284:1231#0/1
abZUT__]RTa^Z]^H_`^`a_^]a`a^__R`¥Q]a]_ZZ
@HWI-EAS443:3:98:294:1126#0/1
ACACGTTCCATTGTCTGAACTAGTTGTTTCCACAATGTAG
+HWI-EAS443:3:98:294:1126#0/1
aabb]^X`]^`__¥YZaa]^`_`TaZ_a`_`a_`]^`_`_Z`]
@HWI-EAS443:3:98:638:614#0/1
CTCCTGGGTAACACGTTCCATTGTCTGAACTAGTTGTTTC
+HWI-EAS443:3:98:638:614#0/1
`^]ZGa`aZ`_T`^aZW_[][__W_¥a^^aU]aZS_¥[YR
@HWI-EAS443:3:98:836:1954#0/1
TTTGTCTCCCGCTCTACTAGAGTCCAGTAATAGTTCATT
+HWI-EAS443:3:98:836:1954#0/1
abaZ`a^^`T`^`^[_aYY¥¥]N_[T^U¥VW_SRNZXQLPP
@HWI-EAS443:3:98:884:197#0/1
CAGCACTAGTAGATGGATGGTGAATGCCCGATAGCACGAG
+HWI-EAS443:3:98:884:197#0/1
¥_Z_^U_Uba__SVa]Ja^QH^[Xbb¥WDFUMZZHYFY`a
@HWI-EAS443:3:98:959:771#0/1
GTTCCATTGTCTGAACTAGTTGTTTCCACAATGTAGGACC
+HWI-EAS443:3:98:959:771#0/1
aa`V`a][ZHV[a[KL^a^]¥W`[a¥VKTPU_Y[¥ZZX_MW
@HWI-EAS443:3:99:112:1520#0/1
CACGTTCCATTGTCTGAACTAGTTGTTTCCACAATGTAGG
+HWI-EAS443:3:99:112:1520#0/1
`_`baaba`aa`]^`baaa`a^^`Z`_aa`]a_`aZ_[^
@HWI-EAS443:3:99:114:1640#0/1
GGCCATGAACCTGTCTTGGCGAATATCTCAAACCTTCAA

+HWI-EAS443:3:99:114:1640#0/1
^`S^aZaT¥¥¥`ab_b[F¥Z^`VV¥Q_]aW]X_S¥aa
@HWI-EAS443:3:99:1194:1570#0/1
ATTTGAATCGTGGTAGTCCAAAGTTCTTTTACATTTACAAT
+HWI-EAS443:3:99:1194:1570#0/1
`¥`a__0ZaaZ_a¥`aSYW_]abJa[a`NV^`aa_FI`b_
@HWI-EAS443:3:99:1206:694#0/1
CCCCCTTCAATGAAACCGCAATGGGCCCAAATAGGCCTC
+HWI-EAS443:3:99:1206:694#0/1
[[_[^¥W[`ab`bVSI Sab[bbaaUQ¥`aaa[_aabL^] ^
@HWI-EAS443:3:99:1222:1887#0/1
CATCAAGATACAGCAAGAAGTACAAGCCGAAATAGCAAT
+HWI-EAS443:3:99:1222:1887#0/1
aaXK_`ab_bbab_baba[] [FZaaaX`_ababL` `aab`
@HWI-EAS443:3:99:1369:1269#0/1
AGCTCCTCATAATCGATGAAATCTCTTGGGTAACACGTTC
+HWI-EAS443:3:99:1369:1269#0/1
^TL_NQ]NP^_a_^`¥`a_` `¥UVZG¥bSa¥¥¥OSG]O_S
@HWI-EAS443:3:99:1457:722#0/1
GAAGGGGGGTGGACAGGGATGGTAGATGGATGGAACGGTT
+HWI-EAS443:3:99:1457:722#0/1
aOX[S^`]FYa^S]a_U]QMYVUR[X]SZ[FO[_BBB
@HWI-EAS443:3:99:1484:2024#0/1
AGAGACTTTGTTGGTCAGCACTAGTAGATGGATGGGGAAT
+HWI-EAS443:3:99:1484:2024#0/1
ab^aa^abaU_a`aYRa`S`Yaaa] [_^ZaaQ`aaHZ[`B
@HWI-EAS443:3:99:181:272#0/1
CACGTTCCATTGTCTGAACTAGTTGTTTCCACAATGTAGG
+HWI-EAS443:3:99:181:272#0/1
_` `¥WZ_ababa__^[]ZX0^]Y^aa] `^aaa`_`R`^^
@HWI-EAS443:3:99:198:1964#0/1
ATCATGACTCGAACAAGGTGTAACGGCAGGATGTCCTCA
+HWI-EAS443:3:99:198:1964#0/1
a]_a]aa_`U`__a`aJZVV`Xa`] ^XBBBBBBBBBBBBB
@HWI-EAS443:3:99:319:1757#0/1
CACGTTCCATTGTCTGAACTAGTTGTTTCCACAATGTAGG
+HWI-EAS443:3:99:319:1757#0/1
a_` `ababb[bb]ab` ` `a` `aba¥abaaa_aa]]U`aa
@HWI-EAS443:3:99:518:395#0/1
CACGTTCCATTGTCTGAACTAGTTGTTTCCACAATGTAGG
+HWI-EAS443:3:99:518:395#0/1
ab` `aa` `a`aaa[aba_¥a`b__` `aa¥^aaa__`Y_aa
@HWI-EAS443:3:99:557:521#0/1
ACGTTCCATTGTCTGAACTAGTTGTTTCCACAATGTAGGA
+HWI-EAS443:3:99:557:521#0/1
^WaWa^^aa`b]Z^[Y_` `^¥XUa`T`] ^^¥]¥SXWZaa[
@HWI-EAS443:3:99:562:377#0/1
AAACAAGTTCAGACAATGGAACGTGTTACCCAGGAGA
+HWI-EAS443:3:99:562:377#0/1
a`aY]a^^`aH_^a_TZ¥0[_`YaUaY¥XY] []^^UTWZM

@HWI-EAS443:3:99:58:399#0/1
ACGTTCCATTGTCTGAACTAGTTGTTTCCACAATGTAGGA
+HWI-EAS443:3:99:58:399#0/1
`a^a`^a`N^_Y`XH`_]S_¥aa[___X`]R[Y¥X^_]X
@HWI-EAS443:3:99:881:1782#0/1
ATGCAAATAAGAGGGGTAGCCCCATTGAATTTGGGTAAA
+HWI-EAS443:3:99:881:1782#0/1
aa¥RQaST^b`ababaaI¥aSOVZa`J_F]]X]bb]GZ]X
@HWI-EAS443:3:9:1062:907#0/1
AACACGTTCCATTGTCTGAACTAGTTGTTTCCACAATGTA
+HWI-EAS443:3:9:1062:907#0/1
aa`aaaaab_aabb`aa^a`a_a^ab¥aa__`__a`Q^
@HWI-EAS443:3:9:1091:1524#0/1
CACGTTCCATTGTCTGAACTAGTTGTTTCCACAATGTAGG
+HWI-EAS443:3:9:1091:1524#0/1
`a`Y`_Z^abb`ba_^_bbaaa`Y^a[[__aaaa^_N_
@HWI-EAS443:3:9:1296:946#0/1
CCGGCGTGAACCTCTTGCTGTATCTTGATGTCCCCACAAA
+HWI-EAS443:3:9:1296:946#0/1
aa^TS__aX0J¥U¥VTWX`¥UW¥]UTTW_[PJO¥ZXJJQZ
@HWI-EAS443:3:9:270:1228#0/1
TAAAAACAATGCCAAGGAAATTGGAAACGGCTGGTTTGA
+HWI-EAS443:3:9:270:1228#0/1
abbaaaaa`aaa`_`aaa`_a]a_a`_`a¥`^`H[B BBB
@HWI-EAS443:3:9:30:1102#0/1
GGGGACATCAAGATACAGCAAGAAGATCAAGCCGGAAATA
+HWI-EAS443:3:9:30:1102#0/1
Waab[abba[b`a[babbba`a_T[HYab`a¥`^`aX`]
@HWI-EAS443:3:9:336:1596#0/1
GGGGACACCAAGATACAGCAAGAAGTTCAAGCCGGAAATA
+HWI-EAS443:3:9:336:1596#0/1
_OX^M[¥P[JLR]`a`aZa`YQVZUVLW_QYF]¥Z__]^
@HWI-EAS443:3:9:340:259#0/1
GTAACACGTTCCATTGTCTGAACTAGTTGTTTCCACAATG
+HWI-EAS443:3:9:340:259#0/1
`RZ^^__^¥_ZX^_YX0_^ZZ^R^RZ¥XWZWRXXZZWV
@HWI-EAS443:3:9:387:790#0/1
ATGGGGCATAACCATCCATCTACTAGTGCTGACCAACAA
+HWI-EAS443:3:9:387:790#0/1
_]¥a¥aaaXM]a[]aaaa`aa_a`_]a^`^`_`_[] [Na_
@HWI-EAS443:3:9:475:1180#0/1
GCTGCTTTGAATTCTACCACAAATGCGATAACACGTGCAT
+HWI-EAS443:3:9:475:1180#0/1
aaZUTZWUV[QW`_]_a`YLV]T[Z]NG[LXIZ]`NLFXZ
@HWI-EAS443:3:9:549:960#0/1
GTCTGAACTAGTTGTTTCCACAATGTAGGACCATGAGCTT
+HWI-EAS443:3:9:549:960#0/1
a`aaaa`aab_bbaaaaa_a]`aXa`_`^`^`^`X`^
@HWI-EAS443:3:100:413:377#0/1
AGTTGTTTCCACAATGTAGGACCATGAGCTTGCTGTGGAG

+HWI-EAS443:3:100:413:377#0/1
a¥`aa[a_a`a¥`_aa_aa_a]_`___aU_`_Ua_^`X¥B
@HWI-EAS443:3:10:1618:120#0/1
GGGGTGGACAGGGATGGTAGATGGATGGTACGGTTATAAA
+HWI-EAS443:3:10:1618:120#0/1
aSBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBB
@HWI-EAS443:3:12:850:1689#0/1
GGAGACATCAAGATACAGCAAGAAGTTCAAGCCGAAATA
+HWI-EAS443:3:12:850:1689#0/1
a]F[¥aV`aXPYa_a_[`[aWab_^JP_]b_ZR``U¥`Q_`
@HWI-EAS443:3:15:442:1907#0/1
GGGGTCTGACAAGTTGTATTGCAATCGTGGACTGGTGTAT
+HWI-EAS443:3:15:442:1907#0/1
aVaaY`a`_`ba_UabT_a¥SaabXa`MaQ]U]_RVZTbZ
@HWI-EAS443:3:16:826:974#0/1
ATTGCCGGTTTCATTGAAGGGGGTGGACAGGGATGGGAG
+HWI-EAS443:3:16:826:974#0/1
WUW¥_S_`V¥_`X`_ZV^bba]^^Naa]```bUNWa^EM[
@HWI-EAS443:3:20:417:1354#0/1
ACGGTTATCACCATCAAATGAGCAGGGGTCAGGATAGCC
+HWI-EAS443:3:20:417:1354#0/1
aa]a¥_`_Xa_YPZ_¥T[]R]_¥¥_RY_]WU^[Z[U_SQW
@HWI-EAS443:3:21:213:690#0/1
GAGCCCCTGCTCATTGATGGTGATAACCGTACCATCCA
+HWI-EAS443:3:21:213:690#0/1
abab^bb`ababbaaaaa`aa_[aaa`b```Za`aa`a_`
@HWI-EAS443:3:21:628:1142#0/1
AGCTGCATATGTTTTGTGGGACATCAAGATACAGCAAG
+HWI-EAS443:3:21:628:1142#0/1
``^Ua^`^U]a^X^_Z^RXNW^0^]VXZ^V^W]Z]ZZ^^
@HWI-EAS443:3:25:195:312#0/1
TGCTGGCTGGATCCTGGGAAATCCAGAGTGAATCAATC
+HWI-EAS443:3:25:195:312#0/1
[_S_[[_[b`[`ab]a[G_ba]Xa`^a^V[```ab^XYF¥]
@HWI-EAS443:3:25:799:907#0/1
ATCTCGTCAATGGCATTCTGTGTGCTCTCAGGTCGGNTG
+HWI-EAS443:3:25:799:907#0/1
_] [X^^H¥V¥XXZ_ZZ_¥_UZZ]a_Z_¥]U_ZSFOWXBBB
@HWI-EAS443:3:26:975:1135#0/1
AGNTTCCAGTTGCTTCGAATGTTATTTTGTCTCCCGGCT
+HWI-EAS443:3:26:975:1135#0/1
a¥D[aaaaa^_a_baaba_`aa___a_aa`_]___a]_¥W
@HWI-EAS443:3:28:1401:376#0/1
ACGGTAACACACTCTGTTAACCTTCTAGAAGACAAGCATA
+HWI-EAS443:3:28:1401:376#0/1
^Y^¥XaaaaX_P]Waa_aaa[TN]^_`_]`_ZW]_X]_^
@HWI-EAS443:3:28:501:86#0/1
CTGGGGAGACTACCAGTACCAATGAACTGGCGACAGTTGA
+HWI-EAS443:3:28:501:86#0/1
abbbbabbbbaa_aaa_``_aabbbaa^^a`_a^NZZX^_^

@HWI-EAS443:3:29:1198:576#0/1
GGGGACATCAAGATACAGCAAGAAGTTCAAGCCGGAAGTA
+HWI-EAS443:3:29:1198:576#0/1
`bbbb_b`aa^bab`aa^[abba```_aa`aaaba``a0_
@HWI-EAS443:3:2:1777:2005#0/1
GAGAATGGAACGTGTTACCCAGGAGATTTTCATCGATTATG
+HWI-EAS443:3:2:1777:2005#0/1
aSP^^`[]_aGXJXRYTZYO¥_^PWHVFQW[MJ[U^X]BB
@HWI-EAS443:3:31:1781:417#0/1
TGNATATGTTTTTGTGGGGACATCAAGATACAGCAAGAAG
+HWI-EAS443:3:31:1781:417#0/1
`^DQ^_ab¥VabaaUY]YY`Pa_WZ^¥Y_^¥_`X_[[[^R
@HWI-EAS443:3:31:624:121#0/1
GGCGTGGACAGGGATGGTAGATGGATGGTACGGTTATCAC
+HWI-EAS443:3:31:624:121#0/1
ababNbbb`aaab0]baV`aa¥aa`^b_W[_a_GX^XSYJ
@HWI-EAS443:3:32:1662:402#0/1
CAGACACTGTAGACACAGTACTAGAAAAGAATGTAACGGT
+HWI-EAS443:3:32:1662:402#0/1
`bbbababbbbb`a_ab[a`ba`Zaaaa_a`aNaaaabI
@HWI-EAS443:3:32:72:1886#0/1
GCGGGGGTCAGGATATGCAGCCGACCTGAAGAGCACACAG
+HWI-EAS443:3:32:72:1886#0/1
a`ZRYWW¥a]^UTW¥V``]Va_¥_a_X]^¥XZM¥ZUG]SL
@HWI-EAS443:3:33:1184:164#0/1
AGTTGTTTCCACAATGTAGGACCATGAGCTTGCTGTGGAG
+HWI-EAS443:3:33:1184:164#0/1
aa_baaaba_a_aaaa_a```]_]a]___V^¥^_¥X^
@HWI-EAS443:3:33:303:1194#0/1
TGCAAAGTGTCAAAAATGGGACTTATGACTACCCAAAATA
+HWI-EAS443:3:33:303:1194#0/1
a`a[]^_Z¥I`aX``_^a_S]_`_^]Y]YY_[UYW_[]Y]
@HWI-EAS443:3:34:715:1526#0/1
AACTTGTCAGACACCCAAGGGTGCTATAAACACCAGCATA
+HWI-EAS443:3:34:715:1526#0/1
_^Ya[XPa]Y`aaaa]¥XJX^G^a]aa_aa`aXS¥YRBBB
@HWI-EAS443:3:35:376:625#0/1
CAACTAGTTCAGACAATGGAACGTGTTACCCAGGAGATTT
+HWI-EAS443:3:35:376:625#0/1
a^I_SZ^U]¥VWa]^QUX`[Z_¥M[VVO[```SLORLQSN
@HWI-EAS443:3:36:1042:1548#0/1
ATCGATTATGAGGAGCTAAGAGAGCAATTGAGCTCAGAGT
+HWI-EAS443:3:36:1042:1548#0/1
V¥aa^`_L_YY[a^¥QR¥a_Z]VYN^ST¥¥]YW[[`XISX
@HWI-EAS443:3:37:484:146#0/1
CCCGGCTTGAACCTTCTGCTGTATCTTGATGTCCCCACCA
+HWI-EAS443:3:37:484:146#0/1
ab````ab]``¥```[_^^`ZZT[]I¥QGFU[_a`[LWG¥
@HWI-EAS443:3:39:1742:789#0/1
AGAGACTTTGTTGGTCAGCACTAGTAGATGGATGGTGGAG

+HWI-EAS443:3:39:1742:789#0/1
TW¥aba]]`^Ua]b`]Ua_^RU]W_[_[VVLOP^aR_Y¥F
@HWI-EAS443:3:39:192:1720#0/1
ACGGTAACACACTCTGTAACTTCTAGAAGACAAGCATA
+HWI-EAS443:3:39:192:1720#0/1
aa[^Va`aa`Y_^_^Z[Z`Z_]^^¥PU]RTZV__S]XYZ
@HWI-EAS443:3:3:1185:1670#0/1
GAGGAAGCAAAATTAACAGAGAAGAAATAGATGGGGCAA
+HWI-EAS443:3:3:1185:1670#0/1
a_aa`aa`aaba`a`a`aa]`^`_]___^`^^_]X^W]X
@HWI-EAS443:3:3:334:1473#0/1
AGTTGTTTCCACAATGTAGGACCATGAGCTTGCTGTGGAG
+HWI-EAS443:3:3:334:1473#0/1
aaSWa¥aaaWa_aaaG¥a__^UYa[___`^^_[^a_]_]UW
@HWI-EAS443:3:44:1178:1536#0/1
CTCTCTTAGCTCCTCATAATCGATGAAATCTCCTGGGCAA
+HWI-EAS443:3:44:1178:1536#0/1
aaaaaa`aa^aa_a_]Z`¥`ZbY]a`a__¥]W_^__^^_]`
@HWI-EAS443:3:45:1392:1482#0/1
GGCTGCTTTGAATTTTACCACAAATGCGATAACACGTNCA
+HWI-EAS443:3:45:1392:1482#0/1
aa`^`_]a`^¥aaaa¥T]aT_[T][PaUH¥^`_`X_PDH[
@HWI-EAS443:3:46:1443:329#0/1
AAATGTCCAAAATATGTAAAAAGCACAAAATTGAGACCGG
+HWI-EAS443:3:46:1443:329#0/1
YYba_T`_T__a_aa_`a__¥_____Y`^a`^]YH`a
@HWI-EAS443:3:48:33:1113#0/1
TCNGTGTGCTCTTCAGGTGCGCTGCATATCCTGACCCCTG
+HWI-EAS443:3:48:33:1113#0/1
^[DWaab`aa_bbabba__]a`V`[_Z¥]W_NYYU_a^NN
@HWI-EAS443:3:48:54:109#0/1
CAACTAGTTCAGACAATGGAACGTGTTACCCAGGAGATTT
+HWI-EAS443:3:48:54:109#0/1
`ba^abbaaa`baaaaab`a`_b_a_a^__`^^`Za``
@HWI-EAS443:3:49:640:728#0/1
GCCTCCTCTGAGTATTTTGGGTAGTCATAAGTCCCATTTT
+HWI-EAS443:3:49:640:728#0/1
abab^a__bbbb[`a`bab^`_aa_``aa_a]_^_Zaaa_
@HWI-EAS443:3:49:660:2005#0/1
CCAGTTGCTTCGAATGTTATTTTGTCTCCCGCTCTAATA
+HWI-EAS443:3:49:660:2005#0/1
aa``Vab`Z_0`aaaaS¥I¥aa¥¥Ya]W`V[OT_YW[GWW
@HWI-EAS443:3:4:1449:1525#0/1
AAATCTCCTGGGTAACACGTTCCATTGTCTGAACTAGTTG
+HWI-EAS443:3:4:1449:1525#0/1
aaba^Y]aaabb_``_a_a_`_]^[`_OWT^^_X_^aX]]
@HWI-EAS443:3:4:1756:1843#0/1
ACCTTCCATGCACGTGTTATCGCATTGTGGTAAAATTCA
+HWI-EAS443:3:4:1756:1843#0/1
aa^`a_`a^a^a^_Ya_]_^S_]__[^Y[]]Y_^_WBBBB

@HWI-EAS443:3:4:579:503#0/1
GATTGGGCCATGAACTTGTCTTGGGGAATATCTCAAANCT
+HWI-EAS443:3:4:579:503#0/1
aa`_`a`_aab[`¥`_T]^a`aa`I^`¥a_aa`RDV^
@HWI-EAS443:3:51:101:864#0/1
GGNGGGTGGACAGGGATGGTAGATGGATGGTACGGTTATC
+HWI-EAS443:3:51:101:864#0/1
a[D¥aaXa_a`a`^W`_XWa^W`_Z^`¥V¥U_`¥]]¥U
@HWI-EAS443:3:52:968:893#0/1
CACGCCAGCAATGTTACATTTACCCAAATGCAATGGGGCT
+HWI-EAS443:3:52:968:893#0/1
^_ba__bb]Xabbabbbbabbb__abaaabbbbaabba¥b
@HWI-EAS443:3:54:1332:1757#0/1
TCCGGGCCATGAACTTGTCTTGGGGAATATCTCAAACCTT
+HWI-EAS443:3:54:1332:1757#0/1
XSXa^_Z^YY^ZJabZPVba_^XW`_`a`][[`a^0¥a^
@HWI-EAS443:3:54:322:1717#0/1
CTTTGGGTCTTATTGCTATTTCCGGCTTGAACCTCTTTCT
+HWI-EAS443:3:54:322:1717#0/1
`ab¥_[F_b_^¥^`bbbbb_ab^SRbVP¥SZUS`_I_`
@HWI-EAS443:3:56:1142:1066#0/1
ATCTACTAGTGCTGACCAACAAAGTCTCTATCAGAATACA
+HWI-EAS443:3:56:1142:1066#0/1
]b_b`bababbaV]a__b]_b_a__`_a```aa_^GWa
@HWI-EAS443:3:56:1499:428#0/1
GTAGTGGTAAAATTCAAAGCAGCCGTTTCCAATTCCTTG
+HWI-EAS443:3:56:1499:428#0/1
a[Y[SaaS]aa_a_¥W¥^`U¥a¥P[WW¥XTQW^]^QLY]_
@HWI-EAS443:3:57:1703:1368#0/1
TATGCTTGTCTTCTAGAAGTTAACAGAGTGTGTTACCGT
+HWI-EAS443:3:57:1703:1368#0/1
aaYRYabaaaa_b^Z^a`][`^X^`a_Y]]V]a_[UX]
@HWI-EAS443:3:5:1233:865#0/1
AGAGTCATCATTTGAAAGTTTGAGATATTCCTCAAGACA
+HWI-EAS443:3:5:1233:865#0/1
UYS`Z__V`___a^^`^Sbb^`b_a`__¥]T[b]`b[B
@HWI-EAS443:3:5:439:1380#0/1
GGCCATCAAGATACAGCAAGAAGTTCAAGCCGGAATAGC
+HWI-EAS443:3:5:439:1380#0/1
_TFHXUYWFWNQJONY^`¥QUTU00Z_X_SVLVS^VB BBB
@HWI-EAS443:3:5:92:902#0/1
TCCTGAAAAGGTAAGAAGCCAGTTAAAAACAATGCCAAG
+HWI-EAS443:3:5:92:902#0/1
aaab`aaaX`WaaZUa`^`aa_aa_aaaa_a`aa[^_a
@HWI-EAS443:3:60:1645:1261#0/1
CACTTCCATGCACGTGTTATCGCATTTGTGGTAAAANTC
+HWI-EAS443:3:60:1645:1261#0/1
abbbbbbabbabbbabbbbaabbbbab]ZbabYD^J
@HWI-EAS443:3:60:67:1165#0/1
GTATCTGACAAGTTGATTGCAATCGTGGACTGGTGTATC

+HWI-EAS443:3:60:67:1165#0/1
a_aa`aaa_`¥a_aaXa__` `` `` _ZF[] ^^ ` ` ¥Z_Z__^
@HWI-EAS443:3:60:701:512#0/1
CTGGCTGGATCCTGGGAAATCCAGAGTGTGAATCACTNTC
+HWI-EAS443:3:60:701:512#0/1
]¥¥` ` _`W]`R_R])_¥W_aZX_a^a`^H_`]¥]^`¥D[X
@HWI-EAS443:3:62:268:1272#0/1
CCGGCTTGAACCTTCTTGCTGTATCTTGATGTCCCCACCAA
+HWI-EAS443:3:62:268:1272#0/1
`_]__a__W])YLY^[RVJV`OOQS[] [VX`PW¥^^^QFZS
@HWI-EAS443:3:63:403:269#0/1
AATGTAGGACCATGAGCTTGCTGTGGAGAGTGATTCAGAC
+HWI-EAS443:3:63:403:269#0/1
aUabY_ZQ]Y[a[ZTZ[Z]WP`_`aba`¥a_`YX_[¥F¥W
@HWI-EAS443:3:64:1240:1291#0/1
ATTGTGATCGGATGTATATTCTGAAATGGGAGGCTGGGGT
+HWI-EAS443:3:64:1240:1291#0/1
aabb_bbabbb_aa¥a` [`a¥a[Y_a`aaaUa`] ` _]GQ]
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CTTAGCTCAATTGCTCTCTTAGCTCCTCATAATCGATGAA
+HWI-EAS443:3:65:907:2007#0/1
¥YIV`_`bb`a_R__a__b^QaZZRWVPVa^aaY]QYX[`a
@HWI-EAS443:3:68:1485:791#0/1
ACGGTAACACACTCTGTAACTTCTAGAAGACAAGCATA
+HWI-EAS443:3:68:1485:791#0/1
aab^P[a`a_^aa_¥a]_^`^_aa]a]a^aa__Z``]^`^__
@HWI-EAS443:3:6:228:973#0/1
GGAGGGGTGGACAGGGATGGTAGATGGATGGTACGGTTAT
+HWI-EAS443:3:6:228:973#0/1
aa¥a^`_H_`¥^]`__`¥¥TPY_¥¥_RV¥ZSH^WZ_VS[B
@HWI-EAS443:3:70:897:1690#0/1
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+HWI-EAS443:3:70:897:1690#0/1
aa`a^Z¥LQ`_` [aaa_` `^a_SL[PQPUa]W¥LWY^_TN
@HWI-EAS443:3:72:1431:354#0/1
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+HWI-EAS443:3:72:1431:354#0/1
aa¥b_`babba¥`ababba_a^`ba^aa_^aZ¥Z^_aaaa
@HWI-EAS443:3:72:1451:646#0/1
TCTGGGGTCAGGATATGCAGCCGACCTGAAGAGCACACAG
+HWI-EAS443:3:72:1451:646#0/1
a`aaba` `a`baaa` `aaaa_` ` _Vaa__Va[`P¥^` _
@HWI-EAS443:3:72:812:989#0/1
GCTTTTTGCTCCAGCATGAGGACATGCTGCCGTTACAGCT
+HWI-EAS443:3:72:812:989#0/1
aaa]_baaa_a^Y^^]VJ¥__RW_R]^[]^`YL¥GZBBB
@HWI-EAS443:3:73:579:220#0/1
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+HWI-EAS443:3:73:579:220#0/1
a`]¥SJ¥`a_ZWQPYV]^NXNQBBBBBBBBBBBBBBBB

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+HWI-EAS443:3:74:1509:1752#0/1
`aaaabaaa_bbb_aaa`baa`_a_aa_a_a__Sa[a_S
@HWI-EAS443:3:75:1340:522#0/1
GCTGGCTGGATCCTGGGAAATCCAGAGTGTGAATCACACT
+HWI-EAS443:3:75:1340:522#0/1
aa_^_aaa`a]]^]]_][`a]V^^WXUaP^[Y]YWTZSV
@HWI-EAS443:3:76:1710:1494#0/1
ATCCTGACCCCTGCTCATTTTGTGGTATAACCGTAGCA
+HWI-EAS443:3:76:1710:1494#0/1
]ZT_]Y`YTQYQQ^PW^_Z]_¥`]X`O`WBBBBBBBBB
@HWI-EAS443:3:76:659:16#0/1
GTCGCCAGTTCATTGGTACTGGTAGTCTCCCTGGGGGAA
+HWI-EAS443:3:76:659:16#0/1
a^]^W[X`^¥W0[``]PSR]^^[NRWJVBBBBBBBBBBBBB
@HWI-EAS443:3:77:1576:1295#0/1
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+HWI-EAS443:3:77:1576:1295#0/1
¥`^`bb¥`¥YU[[V]W]SS`ZL]]V]V^Xb^R`BBBBBBB
@HWI-EAS443:3:78:1381:141#0/1
GCTGGATCCTGGGAAATCCAGAGTGTGAATCACTCTCAAC
+HWI-EAS443:3:78:1381:141#0/1
^^`Z`][X[Z`X^T[]YJ[[YXG]W`[RPPWPYBBBBBBB
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CACAATGTAGGACCATGAGCTTGCTGTGGAGAGTGATACA
+HWI-EAS443:3:79:668:1269#0/1
aabab^a[a¥]]Z__¥RR`Z^V`_^ZSZRT[LZ¥XJQa
@HWI-EAS443:3:81:1122:345#0/1
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+HWI-EAS443:3:81:1122:345#0/1
a_^__TTa_P^_JTZZ^^_AG[^_VV]GY`H`]O^^OGYO
@HWI-EAS443:3:83:606:351#0/1
GGCCAGCACTAGTAGATGGATGGTGAATGCCCCATAGCAC
+HWI-EAS443:3:83:606:351#0/1
a¥U0aaXZQS[]XY_TD¥ZOUaWK]]ZZ_RT¥UZYOMRZ^
@HWI-EAS443:3:83:898:1067#0/1
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+HWI-EAS443:3:83:898:1067#0/1
aa`_[aaaab^`aa`aaa_aa]^aa`a_aaa¥[`aa_a`
@HWI-EAS443:3:85:1090:608#0/1
CCGGGCTTCTTACCTTTTCATATAAGTTCTTCACATTTGA
+HWI-EAS443:3:85:1090:608#0/1
abaabbbbbabbbabbbbaabaaaabaa`aa_baaaaab^
@HWI-EAS443:3:86:418:249#0/1
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+HWI-EAS443:3:86:418:249#0/1
Y```aaaaa]U¥^a`¥^aZ^¥¥]]¥¥[Z_¥^Y_R_YDZ[R
@HWI-EAS443:3:87:571:1435#0/1
GGTCCATGAACTTGTCTTGGGGAATATCTCAAACCTTTCA

+HWI-EAS443:3:87:571:1435#0/1
YRIa`¥`_ZZab[OXZV¥]Z]a[Y]]Z_`ababa^a¥U_W
@HWI-EAS443:3:87:581:1498#0/1
CCCATTCTCTCTGTTTAATTTTGCTTCCTCTGAGTATT
+HWI-EAS443:3:87:581:1498#0/1
aabb`abbbba`baaba^abababbbba`bbbbbb_ba`
@HWI-EAS443:3:8:877:506#0/1
CAACTAGTTCAGACAATGGAACGTGTTACCCAGGAGATTT
+HWI-EAS443:3:8:877:506#0/1
abb`aab¥b[baaaaa`a`a¥_aXa^`aWQ[_`__^¥^_
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TTTTGCTTCCTCTGAGTATTTGGGTAGTCATAAGTCGCA
+HWI-EAS443:3:93:1525:1950#0/1
ab`_]aba]¥^]a`_Z_W[aa``aP`^]YX¥^`^GLVU_
@HWI-EAS443:3:93:80:1766#0/1
GAAGTCCTCGTGTATGGGGCATTACCATCCATCTATCT
+HWI-EAS443:3:93:80:1766#0/1
a¥Q__ba[aZZ_`aa`[¥^a`a`_[a`^`¥_a`V`¥[^^[
@HWI-EAS443:3:94:1458:2047#0/1
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+HWI-EAS443:3:94:1458:2047#0/1
DKXXZSSXYU[YYZ[YY[YY[[ZYXVPYY[[XVPWM[YHX
@HWI-EAS443:3:94:407:1017#0/1
GTGGGGACATCAAGATACAGCAAGAAGTTCAAGCCGGNAA
+HWI-EAS443:3:94:407:1017#0/1
a0`^`]a```_aaaa`aaaa_abaa[a]__aaa]^_[DZ[
@HWI-EAS443:3:94:497:304#0/1
GGCGGGGACATCAAGATACAGCAAGAAGTTCAAGCCGGAA
+HWI-EAS443:3:94:497:304#0/1
aa`a`aa`_a`[^`````_Sa__aaa`¥aW_[a`_[U^^YY
@HWI-EAS443:3:94:787:1889#0/1
ATGCCAAGGAAATTGGAACGGCTGCTTTGAATTTTAAACA
+HWI-EAS443:3:94:787:1889#0/1
a^`^[_aaa[`]¥ZTU¥`_`¥`_ZXLS`RLTYXVB BBB
@HWI-EAS443:3:94:869:1877#0/1
TTCGAATGTTATTTGTCTCCCGCTCTACTAGTGTGCGAG
+HWI-EAS443:3:94:869:1877#0/1
a_^¥aab]aW`aaaaY¥¥`[Z[_a^`P]U[_[FZO[G^¥
@HWI-EAS443:3:95:157:826#0/1
CAGACACTGTAGACACAGTACTAGAAAAGAATGTAACGGT
+HWI-EAS443:3:95:157:826#0/1
aaba`_]`baa]ba[aa``W`_`XaaaaYaU^`_Yb`G`_W
@HWI-EAS443:3:97:1334:718#0/1
AAATCTCCTGGGTAACACGTTCCATTGTCTGAACTAGTTG
+HWI-EAS443:3:97:1334:718#0/1
a¥^Y]`a^^`_YTZaaa]aW^[Y[]a^VYaa_^R^_aU]`
@HWI-EAS443:3:97:871:1516#0/1
GTGCTCTCAGGTCGGCTGCATATCCTGACCCCTGCTGAT
+HWI-EAS443:3:97:871:1516#0/1
`X¥W¥TRYU^)`¥WW`][XaaPT]`WHOPVOEPYBBBBBB

@HWI-EAS443:3:98:1004:1367#0/1
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+HWI-EAS443:3:98:1004:1367#0/1
a``aa````b]¥VT¥`^_bb0aUXP]abU¥]¥UK¥aZF[M
@HWI-EAS443:3:98:112:1597#0/1
CTGCCTCTGAGTATTTTGGGTAGTCATAAGTCCCATTTTT
+HWI-EAS443:3:98:112:1597#0/1
ab_baaaaaaa]aaa_aaa_¥_`^]aa`_`Xa__a^a^__
@HWI-EAS443:3:98:1163:1443#0/1
CAACTAGTTCAGACAATGGAACGTGTACCCAGGAGATTT
+HWI-EAS443:3:98:1163:1443#0/1
`abaabb_bY¥bb^baaa^_aWb`````a[V]a^``^_`a_
@HWI-EAS443:3:98:791:1505#0/1
TGTGGGGACATCAAGATACAGCAAGAAGTTCAAGCCGNAA
+HWI-EAS443:3:98:791:1505#0/1
ab_bab`a_a^a`ab]_a`ab_aaaaZb[``_aaa`V[DOZ
@HWI-EAS443:3:11:1449:1013#0/1
GCTCAATTGCTCTCTTAGCTCCTNATAATCGATGAAATCT
+HWI-EAS443:3:11:1449:1013#0/1
a¥``a`a^_Va[a_aa`_]a^]ZDX__a_Y]X^^`^`]^_`
@HWI-EAS443:3:11:974:1400#0/1
GAAGCCAGTTAAAAACAATGCCAANGAAATTGGAAACGG
+HWI-EAS443:3:11:974:1400#0/1
abbbbbbbbabbbabb`babb_aaWD]a_aaaaa`__aa
@HWI-EAS443:3:14:1764:987#0/1
CCGGCTTGAACCTNTTGCTGTATCTTGATGTCCCCACAAA
+HWI-EAS443:3:14:1764:987#0/1
aabbabb`bb_b^D^baaba`aaaabb`aa_`¥W^a]aa¥
@HWI-EAS443:3:15:822:13#0/1
ACCCCATCTATTTCTTCTCTGTTTAATTTTGCTCCNCTG
+HWI-EAS443:3:15:822:13#0/1
Y_`_a`a^a`ab_T_a^```a^_a`_bbaba_ba[RD[`¥
@HWI-EAS443:3:17:1009:711#0/1
CACATCCAGAACTGATTGCCCCAGGGANACTACCAGTA
+HWI-EAS443:3:17:1009:711#0/1
`ab``]b`aabZX^b`_aaa[aaa_aaaVDW___ZYaaZ_
@HWI-EAS443:3:17:1028:237#0/1
GAAGTCCTCGTGTNTGGGGCATTACCATCCATCTACTA
+HWI-EAS443:3:17:1028:237#0/1
aaaa__aaaa[a_ZDX`_^^¥`_^R^`¥`WY[[ZU[_VZ¥
@HWI-EAS443:3:19:983:1987#0/1
GGAGGCTGGTGTATAGCANCCTTGGGTGTCTGACAAGT
+HWI-EAS443:3:19:983:1987#0/1
aa]`_aaa_]aZaaaa]`a[DN`_`[_]WaVX_[YP`]TT
@HWI-EAS443:3:20:883:937#0/1
ATANTCCCCAAGACAAGTTCATGGCCCAATCATGACTCGA
+HWI-EAS443:3:20:883:937#0/1
_a[D]`[`aa__aab_`_`__UZa_`_`[YG_]^[RUUZX
@HWI-EAS443:3:22:1074:207#0/1
GCATATCCTGACCNTGCTCATTTTGATGGTGATAACCGT

+HWI-EAS443:3:22:1074:207#0/1
aaaaba_[aaa^XDYa`Y]_`_^`__`Y_X^^XV[X
@HWI-EAS443:3:22:373:1337#0/1
ATGCGAACAAATTCAACAGACACTGTAGACACAGTACNAGA
+HWI-EAS443:3:22:373:1337#0/1
aa`a`a`a`a`a_a^`a^`a`_Z^^W^[LV]RDVY]
@HWI-EAS443:3:25:1465:1808#0/1
TCCTCGTGCTATGGGGCATTACCATCCATCTANTAGTGC
+HWI-EAS443:3:25:1465:1808#0/1
]``_bbabbababba_Sa`])ab`b`Q[T^T¥¥D[__¥`_
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CGGATGTATATTCTGAAATNGGAGGCTGGTGGTTTATAGCA
+HWI-EAS443:3:26:1051:1804#0/1
`a_bbbXbbbaaaabaaaZD[__aa`]ab]_^aa`aaY]_
@HWI-EAS443:3:26:1494:1977#0/1
TGCTNGCTGGATCCTGGGAAATCCAGAGTGTGAATCACTC
+HWI-EAS443:3:26:1494:1977#0/1
`aa^DZabbaaaaa_aaa_ab`_Yaaa]¥^¥_aa`ZaS_W
@HWI-EAS443:3:26:928:1217#0/1
AGCCAGTTAAAAACAATGCCAAGGAAATTGGNAACGGCT
+HWI-EAS443:3:26:928:1217#0/1
aTa_]_R^aaa^`^^aaaaa¥____])`a__YDXZZ`^ZY
@HWI-EAS443:3:28:1171:1489#0/1
GTTTTTGTGGGACATCAAGATACNGCAAGAAGTTCAAGC
+HWI-EAS443:3:28:1171:1489#0/1
^ababb_b_bbbbbba¥bbbabbb]D^abb`babababaa`
@HWI-EAS443:3:29:1490:600#0/1
TGGATCCTGGGAAATCCAGAGTGTGNATCACTCTCCACAG
+HWI-EAS443:3:29:1490:600#0/1
a`````_aW`baa`a__aa^¥Z^[[DR[UZ_____U[_V_]
@HWI-EAS443:3:29:219:1148#0/1
GCTGCTTTGAATTTTACCACAAANGCGATAACACGTGCAT
+HWI-EAS443:3:29:219:1148#0/1
abbababbab]bbbbbabbaaa[D¥baaabaa[aa^a_X`
@HWI-EAS443:3:30:1224:562#0/1
GGTGGTTGAACTCTTTACCTACTGCTGTGAACTGNGTATT
+HWI-EAS443:3:30:1224:562#0/1
a^Za]O[Z^ZZ¥`__¥`VW¥WW[VO[UYZ[QDPPT[^
@HWI-EAS443:3:31:1161:484#0/1
GAAACTNATTGCCCCAGGGAGACTACCAGTACCAATGAA
+HWI-EAS443:3:31:1161:484#0/1
aaa¥^¥D[a`a]a__a`¥XX_YU]_`^^_W¥¥¥¥¥__[W
@HWI-EAS443:3:31:363:1458#0/1
TATGAATTTTNTTTTTTAACTAGCCATATTAATTTTTGT
+HWI-EAS443:3:31:363:1458#0/1
aa`^a_aa¥WD[aaaa`aaa`a`a`a`_RX`a_a^^_
@HWI-EAS443:3:33:1638:1373#0/1
GTCATCATTTGAAANGTTTGAGATATTTCCCAAGACAAGT
+HWI-EAS443:3:33:1638:1373#0/1
a_aaaaabbaaaaaXD¥]aaaa`aa_]YW^U_]Z^_Z

@HWI-EAS443:3:34:439:357#0/1
GTTACACCTTTGTTTCGAGTCNTGATTGGGCCATGAACTTG
+HWI-EAS443:3:34:439:357#0/1
aa`b`aaa^aab`_aabSSDZa__aa__]_aa`^^Y____
@HWI-EAS443:3:35:1103:844#0/1
GTCAGCACTAGTAGATGGATNGTGAATGCCCCATAGCACG
+HWI-EAS443:3:35:1103:844#0/1
``aba^aaaabaa^aa`a_¥D^Xa`X]]`baaX^``]¥S¥
@HWI-EAS443:3:36:1324:1057#0/1
GCTTCCTCTGAGTATTTTGGGTAGTCATAAGTCCCANTTT
+HWI-EAS443:3:36:1324:1057#0/1
YabV``bbYQYLaa^aba^M`a]`U_aba[HSTaOD]_`
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+HWI-EAS443:3:36:1691:1605#0/1
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@HWI-EAS443:3:37:892:981#0/1
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+HWI-EAS443:3:37:892:981#0/1
`abbaaba]aa^a`a_R]^Raa`aaaaaUaa¥D]aV^a`
@HWI-EAS443:3:38:1485:970#0/1
TGCTATGGGGCATTACCATCCATCTACTAGTGNTGACCA
+HWI-EAS443:3:38:1485:970#0/1
aaaaaabaaaa`a`baab`aaaa__b]b]ZYKDX[_ZZV
@HWI-EAS443:3:39:1090:1779#0/1
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+HWI-EAS443:3:39:1090:1779#0/1
aaba`YDVbaa`aabaaa`aZa`_aa__a_aW`_`_a`W
@HWI-EAS443:3:39:1246:549#0/1
AGCCAGTTAAAAACAATGCCAAGGAAATTNGAAACGGCT
+HWI-EAS443:3:39:1246:549#0/1
a`aaa^Yaaaaaaaaa`a_a`_Z^__WDK[_¥S`^_P
@HWI-EAS443:3:39:646:1465#0/1
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+HWI-EAS443:3:39:646:1465#0/1
ab]D¥bab^¥a_SaaaaX¥____]_a`a_[QMM]¥a__W`]
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+HWI-EAS443:3:3:1628:139#0/1
aa]]``aaa_a]aa]__a_a]]`aZ`_TDU^_XZ]XVZ]Z
@HWI-EAS443:3:40:81:1198#0/1
CACANCCAGAACTGATTGCCCCAGGGAGACTACCAGTA
+HWI-EAS443:3:40:81:1198#0/1
abb[D^```a]baab]baabaabbab_a__W``Taa]aYa
@HWI-EAS443:3:42:1498:494#0/1
GGTGTANAGCACCTTGGGTGTCTGACAAGTTGTATTG
+HWI-EAS443:3:42:1498:494#0/1
ab_aYba^D[a____`XXa]`_MZW^V^^`_¥¥VY[YYY¥¥
@HWI-EAS443:3:43:1166:62#0/1
GGTTTCCTGNACATTTGGACTTACAATGCCGAACGTGG

+HWI-EAS443:3:43:1166:62#0/1
abS_]Q]_YDRY__^^[^¥]]]XX[Z_TU¥U[PU_Z]^Z
@HWI-EAS443:3:44:1037:305#0/1
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+HWI-EAS443:3:44:1037:305#0/1
`bbaabaaa_baaaa_a_aa_]`ab_a`aWD¥]_`____
@HWI-EAS443:3:44:456:419#0/1
GAAGTTCAAGCCGAAATAGCAATAAGACCCAAANTGAGG
+HWI-EAS443:3:44:456:419#0/1
a__YRQ]`X^PYa_V¥Z]YYY¥__Y`X¥VT]¥KDIZ^[S
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ACTTCTTGCTGTATCTTGATNTCCCCACAAAACATATGC
+HWI-EAS443:3:46:159:1077#0/1
`R__S]`Y^a`V[`a_a^XUDV^¥Y]]Z[[¥QQY[¥¥X^]
@HWI-EAS443:3:46:264:596#0/1
GTGGGGACATCAAGATACANCAAGAAGTTCAAGCCGGAAA
+HWI-EAS443:3:46:264:596#0/1
`T]YWWSX¥WZXT[TTZ[TDR¥_`VW]SVT[U[YS][WSU
@HWI-EAS443:3:47:1258:1301#0/1
GCCAGTTAAAAACAATGCCAAGGAAATTGGANACGGCTG
+HWI-EAS443:3:47:1258:1301#0/1
`aa_a`a`Y¥]]]Za``a][ZZ_a^]]_Z_[WD[^__^^]
@HWI-EAS443:3:47:1328:1304#0/1
CAAACCTTTCAAATGNTGACACTGAGCTCAATTGCTCTCT
+HWI-EAS443:3:47:1328:1304#0/1
abaaa^bbaX_V[Z]DQ`^TaYZa_^`[____`]]]`^]
@HWI-EAS443:3:47:634:732#0/1
TGTGGGGACATCAAGATACAGCAAGAAGTTNAAGCCGGAA
+HWI-EAS443:3:47:634:732#0/1
abaaaaa_aaa¥_`aa_```a[aaa¥[`¥TDW^[^X`^X¥
@HWI-EAS443:3:4:235:415#0/1
CTTCTTGCTGTNTCTTGATGTCCCCACAAAACATATGCA
+HWI-EAS443:3:4:235:415#0/1
abbaabaabbZD¥aaaaaa`a```aaa`]a`^````_a_`
@HWI-EAS443:3:50:1325:1674#0/1
ACTTCNTGCTGTATCTTGATGTCCCCACAAAACATATGC
+HWI-EAS443:3:50:1325:1674#0/1
aaab^D]bbbbaba^bb¥aaaaZ¥]T__aaaa`aaaa_
@HWI-EAS443:3:50:1514:839#0/1
CAAAAACATATGCATCTGCNTTCTGATAGAGACTTTGTTG
+HWI-EAS443:3:50:1514:839#0/1
abbbbbbbbabbbbaabbYD^babbbabababaabaaZ]bb
@HWI-EAS443:3:51:615:1605#0/1
CAAGGAAATTGGAAACGGCTGCTTTGAATNTTACCACAAA
+HWI-EAS443:3:51:615:1605#0/1
aa`ba^babaaaaba`^TXa]FX_`NFZ[D^aGFMVY_`
@HWI-EAS443:3:52:1101:1119#0/1
GGGGACATCAAGATACAGCAAGAAGTTCAANCCGGAAATA
+HWI-EAS443:3:52:1101:1119#0/1
abaaa_`a_X]_a^aab_aaa[Q¥Q___WDX_baX__a`

@HWI-EAS443:3:53:1097:2023#0/1
AAGCCAGTTAAAAACAATNCCAAGGAAATTGGAAACGGC
+HWI-EAS443:3:53:1097:2023#0/1
aaaaaaaa[] [a`aUaaaaRDLU`^`^¥Y^^aWXX^^aW^]S
@HWI-EAS443:3:53:652:716#0/1
AAGAAATGCTGGATCTGGTATTATCATTTCAGNTACACCA
+HWI-EAS443:3:53:652:716#0/1
ab_Z¥Z]] [¥`Y``_[aYJ`_`bb`Zaaa¥W[D[YWa¥aa
@HWI-EAS443:3:54:1036:1149#0/1
TTAANGATAAAGGGAAAGAAGTCCTCGTGCTATGGGGCAT
+HWI-EAS443:3:54:1036:1149#0/1
aaa[DV_a`aaba`_]```____`aa]a¥`_a`^_^]_^_
@HWI-EAS443:3:57:1741:1115#0/1
TGCCGGTTTCNTTGAAGGGGGTGGACAGGGATGGTAGAT
+HWI-EAS443:3:57:1741:1115#0/1
abbbba¥b]ZD^_]ab[X`¥[YYV`¥¥^_WWa[XY]^a^
@HWI-EAS443:3:58:1789:1110#0/1
TGTGGGGACATCAAGATACAGCAAGANGTTCAAGCCGGAA
+HWI-EAS443:3:58:1789:1110#0/1
^WS^[WSY`¥[T`_]`_^]Y]Y¥`]]YD¥UXZ¥YLNQVQ
@HWI-EAS443:3:5:1560:1889#0/1
AGCCAGTTAAAAANAATGCCAAGGAAATTGGAAACGGCT
+HWI-EAS443:3:5:1560:1889#0/1
`_VR][L]`XbaWD^ba`a^WP`[RROGFN¥¥^aZBBBB
@HWI-EAS443:3:60:1207:587#0/1
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+HWI-EAS443:3:60:1207:587#0/1
aaa_X[`^]aaa]_a[aa__aaa_aY`UD[`¥S_a^]____
@HWI-EAS443:3:61:1069:1693#0/1
GCTGGCTGGATCCTGGGAAATCCAGAGTNTGAATCACTCT
+HWI-EAS443:3:61:1069:1693#0/1
^_bb`a`aaaaa[abbabbab_`bbTDVbb_`a_ZaQV
@HWI-EAS443:3:61:1357:1496#0/1
CTTGTCTTGGNGAATATCTCAAACCTTTCAAATGATGACA
+HWI-EAS443:3:61:1357:1496#0/1
abbbbbbb[D]bbbbbb`¥`abbbbbbbbaaaaa`
@HWI-EAS443:3:61:567:554#0/1
CCGGGAGACAAAATAACATTNGAAGCAACTGGAAATCTAG
+HWI-EAS443:3:61:567:554#0/1
aabb_aaabaabbaabb`^D[aaab`_Yaaaa_`¥`a_
@HWI-EAS443:3:62:288:1619#0/1
CATGATTGGCCATGAACCTTGTCTTGGGGAATNTCTCAA
+HWI-EAS443:3:62:288:1619#0/1
a`aaa``_¥`aaa_`^aa^`_Z_^¥[]_Z]]TDW^]X`__
@HWI-EAS443:3:63:693:1210#0/1
AGCTTTTTGCTCCAGCATGAGGACATGNTGCCGTTACACC
+HWI-EAS443:3:63:693:1210#0/1
aa`^aaa`^`a_[Pab_`aU]Ya_`QDU^]]SOJT[]]`
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TCGANTGTTATTTTGTCTCCCGGCTCTACTAGTGCCAGT

+HWI-EAS443:3:64:1778:641#0/1
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@HWI-EAS443:3:64:292:165#0/1
GCACTAGTAGATGGATGGTGAATGCCNCATAGCACGAGGA
+HWI-EAS443:3:64:292:165#0/1
aa`Y`V¥S¥b]^aaXa]aS`baXaVWDW_]][ZUW]RWOJ
@HWI-EAS443:3:64:781:2023#0/1
TCTTGCTGTATCTTGATGTCCCCACANAAACATATGCATC
+HWI-EAS443:3:64:781:2023#0/1
_b` `ababaab_abaaab` `b`aa]]D^bbabaa` `^aaa
@HWI-EAS443:3:65:1525:1615#0/1
GCTGCTTTGAATTTTACCACAAATGCGATANCACGTGCAT
+HWI-EAS443:3:65:1525:1615#0/1
aa[ZLY¥]ZWSX]WTWXVZRV^^^]WZ^¥WDMW[XT¥VSW
@HWI-EAS443:3:65:1731:256#0/1
TCACCATCCATCTACTAGTGCTGACCAACNAAGTCTCTAT
+HWI-EAS443:3:65:1731:256#0/1
aba`¥a`a`aa_aa^a` `a¥`a`_Wa_JD[aa¥X`^`^`_`
@HWI-EAS443:3:65:85:96#0/1
TGAAAAGGTAAGAAGCCAGTTAAAAACAATGCCNAGGAA
+HWI-EAS443:3:65:85:96#0/1
aa_[__a[Waa_XY]¥X^`_]_^ZUYV¥¥Z¥^`_TND0^WYY
@HWI-EAS443:3:66:877:1712#0/1
GCCAGTTAAAAACAATGCCAAGGAAATTGGAAACNGCTG
+HWI-EAS443:3:66:877:1712#0/1
^]E¥X¥abba^^¥`Q¥aYa[SXXQaV¥`YX^`BBBBBBBB
@HWI-EAS443:3:67:1270:513#0/1
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+HWI-EAS443:3:67:1270:513#0/1
I`bbbab¥^]D[¥¥abb_]Vbbbb¥ab^^Nbbaaa` `^bb
@HWI-EAS443:3:68:1003:1265#0/1
CAAGTTGTATNGCAATCGTGGACTGGTGTATCTGAAATGA
+HWI-EAS443:3:68:1003:1265#0/1
a`_abbbaa]D]bb` `WTaaaaabb_Tbabbabaaabab_
@HWI-EAS443:3:69:727:195#0/1
CCACGATTCANATGTGAAGAACTTATATGAAAAGGTAAGA
+HWI-EAS443:3:69:727:195#0/1
¥`¥Z_]bbUDLW¥YV]`a^[M]a¥]JYa^W¥]__Y` `_]`
@HWI-EAS443:3:6:771:1155#0/1
TAGCACCCCTGGGTGTCTGACAAGTTGTATTGCAANCGTG
+HWI-EAS443:3:6:771:1155#0/1
aaaa]aa]` `^^a`VaR` ` `][ZZ`¥X[T`_¥TN_XDR^BB
@HWI-EAS443:3:6:807:1811#0/1
GTTTTGTGGNGACATCAAGATACAGCAAGAAGTTCAAGC
+HWI-EAS443:3:6:807:1811#0/1
aTXa`Ya^aXD^_Z` ` `a_]W¥Ma_]_a^¥^]V]Oa` `^B
@HWI-EAS443:3:70:1459:863#0/1
GCTGGATCCTGGGAAATCCAGAGTGTGAATCACTNTCCAC
+HWI-EAS443:3:70:1459:863#0/1
aabbaaaaaaaaa` `aaaaaaaa^a__a`a`_]ZDX_]` ` _`

@HWI-EAS443:3:71:1581:898#0/1
GTGCTCTTCAGGTCGGCTNCATATCCTGACCCCTGCTCAT
+HWI-EAS443:3:71:1581:898#0/1
aab^^[]¥WZbaZV_baRDL]a_YNV¥XVZH¥¥LV^W¥¥
@HWI-EAS443:3:71:698:1144#0/1
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+HWI-EAS443:3:71:698:1144#0/1
abbbbbbbbbbbba]abZbbbbbabaaa_^b`ab^DXaa]a
@HWI-EAS443:3:74:1629:1155#0/1
GCTGGCTGGATCCTGGGAAATCCAGANTGTGAATCACTCT
+HWI-EAS443:3:74:1629:1155#0/1
aQ`a`aaaa`]YY]SZ_V`_] [Z[`RDDZ^XLXZQXN^XY
@HWI-EAS443:3:75:1121:1754#0/1
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+HWI-EAS443:3:75:1121:1754#0/1
a_] [D]^YO¥` `a`b`ab`0`a`a^a`_¥aaaa`a¥_a
@HWI-EAS443:3:75:1614:1630#0/1
CTACATTAATGATAANGGAAAGAAGTCCTCGTGCTATGG
+HWI-EAS443:3:75:1614:1630#0/1
0¥ba¥`aaZ_aabaPD[[]`b`bab`^[RV^`Yaa[ba¥`
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+HWI-EAS443:3:77:1031:1563#0/1
`ab^aa]DU`abbb_Uaa`Waa`a_]¥aaaa_Vaa_^`_
@HWI-EAS443:3:77:1522:596#0/1
ATTTTGTGCTTTTTNCATATTTTGGACATTTTCCAATTGT
+HWI-EAS443:3:77:1522:596#0/1
abbbbbbababbbb^D^ba`bbbb` `aabba` [aabb`_
@HWI-EAS443:3:78:967:1037#0/1
CGATTGCAATACAACNTGTCAGACACCCAAGGGTGCTATA
+HWI-EAS443:3:78:967:1037#0/1
abba` `bbaabba[D[b`aab`_`baa]aaa`a^a_aaaa
@HWI-EAS443:3:79:127:1575#0/1
GTGTTACCCAGGAGATTTTCATCGATTATGAGNAGCTAAGA
+HWI-EAS443:3:79:127:1575#0/1
a_a_aabba]ZW]S^a`a` `a[] ` ` ` ` _YDPY_[[WW¥
@HWI-EAS443:3:79:1749:1664#0/1
TCCGGCTTGAACTTCTTGCTGTATCTTGATGTCNCCACAA
+HWI-EAS443:3:79:1749:1664#0/1
aaKZ`^aa] ` ` [_ba^ab_aa`a` `aaa¥_TW[DP`SP__
@HWI-EAS443:3:79:579:1738#0/1
CTCCTCTGAGTATTTTGGGTAGTCATAAGTCCCNTTTTT
+HWI-EAS443:3:79:579:1738#0/1
ababaaabaa`VbbbbbaZS[aXabb`baaTab^D[aaaa
@HWI-EAS443:3:7:920:1136#0/1
GAAGTCCTCGTGCTATGGGCATTACCATNCATCTACTA
+HWI-EAS443:3:7:920:1136#0/1
_bb]aabbababbaabb`aaababaa_b¥DWaaa`b_aa
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+HWI-EAS443:3:81:1768:1076#0/1
]aSYQb_bb]b^^Vaba_TDSUV^aa___Z_a`a][`X]`
@HWI-EAS443:3:81:454:1699#0/1
CAATTGGAAAATGTCCNAAATATGTAAAAAGCACAAAATT
+HWI-EAS443:3:81:454:1699#0/1
a_¥QZ]LZb]a_a]aVDY¥¥^_aaYaU]Ya¥^a_`X_]Z
@HWI-EAS443:3:83:830:1171#0/1
CTTCTTGCTGTATCTTGATGTCCCNCAAAAACATATGCA
+HWI-EAS443:3:83:830:1171#0/1
abbabaaabbabbaabbbbbaaaa]D[bab]bbaaaa`a
@HWI-EAS443:3:84:1615:1314#0/1
AATCGATNAAATCTCCTGGTAACACGTTCCATTGTCTGA
+HWI-EAS443:3:84:1615:1314#0/1
Xba`¥b]DZX]UZb^a¥]`¥`a]`]]`^a`UabQ`G`aa_
@HWI-EAS443:3:85:470:100#0/1
GGTGGACAGGGATGGTAGATGGATGGTACNGTTATCACCA
+HWI-EAS443:3:85:470:100#0/1
aaUaa_]`^`a¥___Y¥aZW_Z¥¥_`^V¥LDVY¥WUWUSU
@HWI-EAS443:3:85:783:241#0/1
TGCTCTTAGCTCCTCATAATCGATGAAATCTCNTGGGT
+HWI-EAS443:3:85:783:241#0/1
ab`aaaabaa`a`^^`aaa`a`___a^a_a_aXDUa^`Z
@HWI-EAS443:3:86:776:547#0/1
CATCCATCTACTAGTGCTGACCAACAAAGTCTCNATCAGA
+HWI-EAS443:3:86:776:547#0/1
aba¥`baaaaaaa_G^aaaa_aaa`aaa`aXD[aXaa_
@HWI-EAS443:3:87:1186:1153#0/1
TGCTGGCTGGATCCTNGGAAATCCAGAGTGTGAATCACTC
+HWI-EAS443:3:87:1186:1153#0/1
QW_aabZa`]]XW^NDW^]bbbababZ`XaV[a`b_a]aa
@HWI-EAS443:3:89:623:1522#0/1
GCTTCCTCTNAGTATTTTGGGTAGTCATAAGTCCCATTTT
+HWI-EAS443:3:89:623:1522#0/1
abababba¥D^a^baaaaaaa_a`_aaabaa]aaaaaaa
@HWI-EAS443:3:90:1661:341#0/1
GAAATGCTGNATCTGGTATTATCATTTTCAGATACACCAGT
+HWI-EAS443:3:90:1661:341#0/1
_b_a]aaaZD]`ababVaab_aZ`baa`_baab^a__a`I
@HWI-EAS443:3:90:526:1364#0/1
GGGGACATCAAGNTACAGCAAGAAGTTCAAGCCGGAAATA
+HWI-EAS443:3:90:526:1364#0/1
a¥QYUab`_baTD[bab_`bba[`[Y`aba`^^Zba`aaa
@HWI-EAS443:3:90:65:1121#0/1
GGCTAGTTAAAAAAGGAANTTCATACCCAAAGCTCAGCAA
+HWI-EAS443:3:90:65:1121#0/1
aabaaa_ababbaa`]YZDY`ba_[a__a[Q_`^`_`[_]
@HWI-EAS443:3:91:1419:180#0/1
ATCANAATGCAGATGCATATGTTTTTGTGGGGACATCAAG
+HWI-EAS443:3:91:1419:180#0/1
^`a^DY_bb_¥baY^_bba^b¥aba^_X`]_`Ya`^__a

@HWI-EAS443:3:91:1723:917#0/1
AGAAATAGATGGGGTNAAGCTGGAATCAACAAGGATTTAC
+HWI-EAS443:3:91:1723:917#0/1
abaaabababbaaaYD]baabbaaaaaa`a`aa_aa``W
@HWI-EAS443:3:93:153:1359#0/1
TGCTGNCTGGATCCTGGGAAATCCAGAGTGTGAATCACTC
+HWI-EAS443:3:93:153:1359#0/1
aaba¥D^UZa[Q[a[^X`]]R[]^Z_V`VZ__[U]TZ[
@HWI-EAS443:3:94:1263:1818#0/1
ATCGATGAAATCTCCTGGGTAANACGTTCCATTGTCTGAA
+HWI-EAS443:3:94:1263:1818#0/1
a`WZ]_a`YU]YYS^_b`R_UDU_`S`SGY_`^`RG_XU¥
@HWI-EAS443:3:94:309:1343#0/1
GGGTCNTATTGCTATTTCCGGCTTGAACCTTCTTGCTGTAT
+HWI-EAS443:3:94:309:1343#0/1
abb]WD^bbaa`aaabaaa`^_aa____]`_Xaa`Z`aU_]`
@HWI-EAS443:3:95:987:867#0/1
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+HWI-EAS443:3:95:987:867#0/1
a`WV¥S¥b[^Xab^_bababaaSab_IXa¥Y_aa^DU_]b
@HWI-EAS443:3:96:1765:1195#0/1
TGGGGCATTACCATCCATCTNCTAGTGCTGACCAACAAA
+HWI-EAS443:3:96:1765:1195#0/1
`]]`b`aa_S]b`IWa_RWDT_`]W`K^X]____`Z_`
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CATCATTTGAAANGTTTGAGATATTTCCCAAGACAAGTTC
+HWI-EAS443:3:98:933:1102#0/1
a_bbabbb_`a[D^]abbbbaaaaaW]_]aaaa`¥b_`_
@HWI-EAS443:3:99:1760:965#0/1
CAAGNTCATGGCCAATCATGACTCGAACAAAGGTGTAAC
+HWI-EAS443:3:99:1760:965#0/1
abT[D[b`ZU¥^¥^a][^aaaa¥_UU[ZDUa`[^UZZ]_B
@HWI-EAS443:3:10:1238:644#0/1
CGAGGGGGGTGGACAGGGATGGTAGATGGATGGTACGGTT
+HWI-EAS443:3:10:1238:644#0/1
`babbbbabQbaa_YI¥baab¥EXXOUaaP_a^P`^]¥U^
@HWI-EAS443:3:11:1359:440#0/1
TCGCCCCATTGCATTTGGGTAAATGTAACATTGCTGGCTG
+HWI-EAS443:3:11:1359:440#0/1
``^`]]`a[a`Z]b_a`QXY]VU__¥Z^]W¥NY]`UYB
@HWI-EAS443:3:12:1312:1837#0/1
TGGCTCCTCATAATCGATGAAATCTCCTGGGTAACACGTT
+HWI-EAS443:3:12:1312:1837#0/1
aaaaaaaaa`aba_ab`aaaa]¥^_`^`__Z``__[^Z]
@HWI-EAS443:3:14:1489:805#0/1
AAATGCGATAACACGTGCATGGAAAGTGTCAAAAATGGTC
+HWI-EAS443:3:14:1489:805#0/1
abaaa_aaaaa^a_b^a_`aaa____`]a]]^____`__^ZU
@HWI-EAS443:3:15:358:1386#0/1
CCCCAGGGGAGACTACCAGTACCAATGAACTGGCGACAGCT

+HWI-EAS443:3:15:358:1386#0/1
abb`]aa^_`_ZaZ`a^U^W_`Q`¥_Z¥^]¥Y_]¥BBBB
@HWI-EAS443:3:16:453:1892#0/1
TGCTTCGAATGTTATTTGTCTCCCGGCTCTACTAGTGCC
+HWI-EAS443:3:16:453:1892#0/1
Vb¥Z¥bWl¥b[a`aa^a`_Z^`ba`_]`¥PZ`J^QJU
@HWI-EAS443:3:18:1376:503#0/1
AGCCTTTGTTTCGAGTCATGATTGGGCCATGAACTTGTCTT
+HWI-EAS443:3:18:1376:503#0/1
aa`a`aaa`Y^Pa[^`_`_`a`_`^Z^`_W_Z`a_]Va`
@HWI-EAS443:3:18:419:747#0/1
TCTGGGCCATGAACTTGTCTTGGGGAATATCTCAAACCTT
+HWI-EAS443:3:18:419:747#0/1
abaa`baaaaaaaaaa^aaaa]`YZa`[a[aaaa]]^a`
@HWI-EAS443:3:19:191:330#0/1
GGGTCAGGATATGCAGCCGACCTGAAGAGCACACAGAANG
+HWI-EAS443:3:19:191:330#0/1
a_SN_Zaa¥Z`NZ`aaa`a_a`T`]X]N`Z¥]a`_XQXDU
@HWI-EAS443:3:1:1661:482#0/1
GGCAGTTAAAAACAATGCCAAGGAAATTGGAAACGGCTG
+HWI-EAS443:3:1:1661:482#0/1
aIZX¥V¥`^IR^a]¥^P[NLP[Q`X]_YR`^UZ^BBBBBB
@HWI-EAS443:3:20:1579:647#0/1
TTCTGTGTGCTCTTCAGGTCGGCTGCATATCCTGACCCAT
+HWI-EAS443:3:20:1579:647#0/1
ab]a`ab]^aa[ba]]`XM]^SVYHNMW`aFH[RBBBBBB
@HWI-EAS443:3:21:578:322#0/1
ACGTGGTTGAACTCTTTACCTACTGCTGTGAACTGTGTAT
+HWI-EAS443:3:21:578:322#0/1
]bbNL^Z^`_a`¥UYa`a`^¥]a`]ZYa_a]^]_aX`[`X
@HWI-EAS443:3:22:1234:1033#0/1
CGTGGGGACATCAAGATACAGCAAGAAGTTCAAGCCGGAG
+HWI-EAS443:3:22:1234:1033#0/1
abTaaaaabaa`_aa_]aaaaYaaa_aaYU[]`a`Ra`]`
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+HWI-EAS443:3:22:168:859#0/1
`_a`_a_babaaa_a`_`_aV_aa`aadW`_]`^`Q`_G¥
@HWI-EAS443:3:22:774:1060#0/1
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+HWI-EAS443:3:22:774:1060#0/1
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@HWI-EAS443:3:22:868:782#0/1
CCGCCGTTTCATTGAAGGGGGTGGACAGGGATGGTAGA
+HWI-EAS443:3:22:868:782#0/1
aaa`aaaWa`] [aaa^[_a_aa_Pa¥UX__aaQM`]UY^X
@HWI-EAS443:3:23:405:1823#0/1
AAATGCTGGATCTGGTATTATCATTTTCAGATACACCAGGC
+HWI-EAS443:3:23:405:1823#0/1
`a^^L_Y¥Y_]SXUH^__aQ^W¥ZOV^[`_]`_YXY_NG^

@HWI-EAS443:3:24:76:1548#0/1
CTCTGGCTGGATCCTGGGAAATCCAGAGTGTGAATCACTC
+HWI-EAS443:3:24:76:1548#0/1
aaba`ab``````aa_``_aaa_aaa¥`[Y][¥a`¥`a^¥^
@HWI-EAS443:3:26:933:272#0/1
GCGGGGGTGGACAGGGATGGTAGATGGATGGTACGGTTAT
+HWI-EAS443:3:26:933:272#0/1
a_bbabaZaaa`a`a__a_W]VZZ__¥^__Q_¥¥¥SW¥N
@HWI-EAS443:3:29:396:1734#0/1
CCTTACCCCATCTATTTCTTCTCTGTTTAATTTTGCTTCC
+HWI-EAS443:3:29:396:1734#0/1
¥GUWW[Q]aZKWQ[]`^^LP¥Q_]_SJFZJZ¥VTMNLRBB
@HWI-EAS443:3:2:1520:330#0/1
CAACTTGTGACACACCCAAGGGTCTATAAACACCAGCAT
+HWI-EAS443:3:2:1520:330#0/1
a`Ia`_UXa[ba^SYZQY[__QN_[BBBBBBBBBBBBBBB
@HWI-EAS443:3:31:1406:606#0/1
GGAAACGGCTGCTTTGAATTTTACCACAAATGCGATAAAA
+HWI-EAS443:3:31:1406:606#0/1
__bba`^`aa]LU¥bXZZW`^aWUM¥RI]^QMRZXOVZFT
@HWI-EAS443:3:33:1305:415#0/1
GAAATCTCCTGGGTAACACGTTCCATTGTCTGAACTAGTT
+HWI-EAS443:3:33:1305:415#0/1
aaaaaabbaaba^aaaaa`_^`a_]`[_a`X_Z^__Z_
@HWI-EAS443:3:33:1753:726#0/1
CTCCCCTTCAATGAAACCGCAATGGCCCCAAATAGGCCT
+HWI-EAS443:3:33:1753:726#0/1
X_Za_bbab_bbabbb`_R`a_T¥¥a]`a^]¥X^SFFW
@HWI-EAS443:3:34:459:301#0/1
GCGGGGACATCAAGATACAGCAAGAAGTTCAAGCCGGAAA
+HWI-EAS443:3:34:459:301#0/1
abaa`b`a_^aa¥aaa`_baaaaa[aX]__^Y_]`^^XY
@HWI-EAS443:3:34:58:688#0/1
GTTGTTTCCACAATGTAGGACCATGAGCTTGCTGTGGAGA
+HWI-EAS443:3:34:58:688#0/1
a_aa_]____a`URYPVQTU]^`_ZS[]Y]`¥_^_SVVB
@HWI-EAS443:3:34:821:1792#0/1
GCTCCTCATAATCGATGAAATCTCCTGGGTAACACGTTGC
+HWI-EAS443:3:34:821:1792#0/1
a_¥baabaa]a`aa_[``ba_a_``^a_`Za^]`^_XYBB
@HWI-EAS443:3:35:519:1441#0/1
GCTGGCTGGATCCTGGGAAATCCAGAGTGTGAATCACTAC
+HWI-EAS443:3:35:519:1441#0/1
``[_U_``ZVOX_0^UT_TTVT__^RBBBBBBBBBBBBBBB
@HWI-EAS443:3:36:669:677#0/1
GTTGTTTCCACAATGTAGGACCATGAGCTTGCTGTGGAGA
+HWI-EAS443:3:36:669:677#0/1
a`aa_aabaaa`aaZ^a`a__a_`__[_]__V`]^¥_
@HWI-EAS443:3:36:771:1024#0/1
GAAATCTCCTGGGTAACACGTTCCATTGTCTGAACTAGTT

@HWI-EAS443:3:45:738:795#0/1
GGCTGCTTTGAATTTTACCACAAATGCGATAACACGTGNA
+HWI-EAS443:3:45:738:795#0/1
ab_`_¥_a¥_T[`a`_][YX]Y```a]]XZ]]]]¥]ZXDW
@HWI-EAS443:3:47:1014:691#0/1
CAGGCATTCTGTGTGCTCTTCAGGTCGGCTGCATATCCTG
+HWI-EAS443:3:47:1014:691#0/1
a_bUbbaabbaaZbbbabbaX``[Z^aa`aaX`_`^[_W]
@HWI-EAS443:3:47:143:1940#0/1
TTGCTCCTCATAATCGATGAAATCTCCTGGGTAACACGTT
+HWI-EAS443:3:47:143:1940#0/1
[aUR`b^^_bba_bbbbaa^abaaWaaaa^]`aT0]W``a
@HWI-EAS443:3:4:1311:1090#0/1
GTCCGGGAGACAAAATAACATTCTGAAGCAACTGGAAATCTA
+HWI-EAS443:3:4:1311:1090#0/1
a[`aaaX_Z¥Y¥[_[[[_```^[_^____Z`[a``__]]]^
@HWI-EAS443:3:4:88:1496#0/1
GCGGGGACATCAAGATACAGCAAGAAGTTCAAGCCGGAAA
+HWI-EAS443:3:4:88:1496#0/1
^H¥[VSQU0[aQ¥XTV]]X[YXV^TN¥W^^_P[WS]QQ]B
@HWI-EAS443:3:50:1754:1205#0/1
CGCGTGTATTATCGCATTTGTGGTAAAATTCAAAGCAGCCGT
+HWI-EAS443:3:50:1754:1205#0/1
a_Sa^aa^^^Z`ab_ba^^¥X¥bbbabbaba`a[_bVV_¥
@HWI-EAS443:3:50:931:1245#0/1
CGCCGGTTTCATTGAAGGGGGTGGACAGGGATGGTAGAG
+HWI-EAS443:3:50:931:1245#0/1
aZX^bb`]]OY^`^VZW¥QZ[``_ZTKF¥^_W¥^BBBBBB
@HWI-EAS443:3:51:1011:793#0/1
AGCCCCTCTTAGTTTGCATAGTTTCCCGTTATGCTTGTCT
+HWI-EAS443:3:51:1011:793#0/1
_Y[VY_b`bY[UVY¥ZZSZJYNY_RGMR]Z^PMXa^HFM¥
@HWI-EAS443:3:51:970:1071#0/1
CCGCTGAGCTTTGGGTATGAATTTCTTTTTTAACTAGCC
+HWI-EAS443:3:51:970:1071#0/1
abaab`X``^]_bba__ab__aaa^]a^_aaaa_¥a_a^_
@HWI-EAS443:3:52:1554:1378#0/1
GCTGGGGACATCAAGATACAGCAAGAAGTTCAAGCCGGAA
+HWI-EAS443:3:52:1554:1378#0/1
a_aa__a`]_]_]a^_]``R`_a_]`V]¥_`_RW_XX[
@HWI-EAS443:3:53:1081:263#0/1
ATGAACTTGTCTTGGGAATATCTCAAACCTTCAAATAA
+HWI-EAS443:3:53:1081:263#0/1
a¥__XZ``aa_b`_`ba]^abaa_Yba_a_`aa`^`_a`_
@HWI-EAS443:3:54:7:1107#0/1
GATTCACACTCTGGATTTCCAGGATCCAGCCAGCAATNT
+HWI-EAS443:3:54:7:1107#0/1
`a`aaa`a`a`a__`_]_a^^_]^_]_¥_]_] ^NTDN
@HWI-EAS443:3:56:1010:495#0/1
GAGCTGGCTGGATCCTGGGAAATCCAGAGTGTGAATCACT

+HWI-EAS443:3:56:1010:495#0/1
aWZ]]aS``_]UKTV[^Z¥ZR`_UZU_U_Q^NVZ^__YPS
@HWI-EAS443:3:56:1697:144#0/1
ATATTGGAAACGGCTGCTTTGAATTTTACCACAAATGCGA
+HWI-EAS443:3:56:1697:144#0/1
]aaa^`aa^`¥a]0[a¥GQ[Z_aaLDN[0¥^]BBBBB
@HWI-EAS443:3:58:184:505#0/1
CGGGCTTCTTACCTTTTCATATAAGTTCTTCACATTTGAA
+HWI-EAS443:3:58:184:505#0/1
abba_abababaabbaabaaaaa_`aaaa```aaaa`
@HWI-EAS443:3:61:683:921#0/1
CACCCAGGATCCAGCCAGCAATGTTACATTTACCCAAATG
+HWI-EAS443:3:61:683:921#0/1
abbabbabaaaaaaaaab`aaaa]Zaa```_W^_a^`^^
@HWI-EAS443:3:63:1252:116#0/1
GGCGGCTGCTTTGAATTTTACCACAAATGCGATAACACGT
+HWI-EAS443:3:63:1252:116#0/1
aa_aa]_bZ[aaMFZ_aaaVM¥VMUaaU[S[R¥UFZR^X
@HWI-EAS443:3:64:1390:394#0/1
ANAAGTTGTATTGCAATCGTGGACTGGTGTATCTGAAATG
+HWI-EAS443:3:64:1390:394#0/1
¥D[`a[]`[aaaaaa¥a¥ZM``[_]_[U_Z_____`Y¥X`_
@HWI-EAS443:3:65:388:488#0/1
CATATCCTGACCCCTGCTCATTTTGATGGTGATAACCGCA
+HWI-EAS443:3:65:388:488#0/1
``aVT^¥a^`VPZa]aa]QXPP]Z[XPJZ^[WYTNODV
@HWI-EAS443:3:65:807:608#0/1
CTTGGGAAATCCAGAGTGTGAATCACTCTCCACAGCAAGC
+HWI-EAS443:3:65:807:608#0/1
¥_]UGY^Z^U¥_[H[Y__XWW__aa`^T^¥a¥_`_R_X
@HWI-EAS443:3:66:1293:164#0/1
AACTAGTTCAGACAATGGAACGTGTTACCCAGGAGATTTC
+HWI-EAS443:3:66:1293:164#0/1
aaaa^]]a^aaaaa`a¥[_Y]X¥¥_____`_¥_X__^]
@HWI-EAS443:3:6:1099:1304#0/1
ACGGGGGTGGACAGGGATGGTAGATGGATGGTACGGTTAT
+HWI-EAS443:3:6:1099:1304#0/1
^`^a^¥X``b]bb[]¥U[a`a`_U___a[F^[^aQ]BB
@HWI-EAS443:3:72:1075:1851#0/1
AACTGATTGCCCCAGGGAGACTACCAGTACCAATGAAGT
+HWI-EAS443:3:72:1075:1851#0/1
¥`_`^^W[V_b__V_U]P¥X_X¥a[T^Y]U[VSa]UX¥FV
@HWI-EAS443:3:73:1064:1193#0/1
GCAGATTTTCATCGATTATGAGGAGCTAAGAGAGCAATTGA
+HWI-EAS443:3:73:1064:1193#0/1
[IXa]`bSZ]Z`ZMaaaYLL[`]`¥WYYRU[UWXS¥N_Z
@HWI-EAS443:3:73:360:934#0/1
GAGAGTGATTCACACTCTGGATTTCCCAGGATCCAGCCGG
+HWI-EAS443:3:73:360:934#0/1
^¥]]Zabaa]bab[`babaaa`]a_baa^[`aaa`a`ZFY

@HWI-EAS443:3:74:845:505#0/1
GGAAACGGCTGCTTTGAATTTTACCACAAATGCGATAAAA
+HWI-EAS443:3:74:845:505#0/1
ab_aaabbaa_L]aa¥` `]`a]GL[^_]a` []Z]¥Y^WFZ
@HWI-EAS443:3:74:898:159#0/1
ATCCTGACCCCTGCTCATTTTGATGGTGATAACCGTACTA
+HWI-EAS443:3:74:898:159#0/1
OTYWa`SWXVP^0_[]` `]Z]_WF[FM`LJR_BBBBBBBB
@HWI-EAS443:3:75:27:1316#0/1
CAGAATGCAGATGCATATGTTTTGTGGGGACATCAAGNT
+HWI-EAS443:3:75:27:1316#0/1
ab`TX`aba^a`aa__a]a¥`a` [XT`_`][``]`^¥ZDR
@HWI-EAS443:3:75:378:237#0/1
AACTAGTTCAGACAATGGAACGTGTACCCAGGAGATTTC
+HWI-EAS443:3:75:378:237#0/1
aa_a[^X__YZ_`¥^_aXTKR^U^SXY^ZW_]SV_X]_¥X
@HWI-EAS443:3:75:860:1824#0/1
GAGCCGGTTTCATTGAAGGGGGTGGACAGGGATGGTAGA
+HWI-EAS443:3:75:860:1824#0/1
^^¥`X`WT¥Z^aaa`aa`a] []S]X^a_a` `[[_U]b`^
@HWI-EAS443:3:76:818:322#0/1
ACGGGTATGAATTTCCTTTTTAACTAGCCATATTAAT
+HWI-EAS443:3:76:818:322#0/1
aabaa]aba`aaaa`aaaaaaaa`_aa`a` `aaaa`^aa
@HWI-EAS443:3:77:906:1886#0/1
GAAATCTCCTGGGTAACACGTTCCATTGTCTGAACTAGTT
+HWI-EAS443:3:77:906:1886#0/1
aa` `^¥abaYb]Z¥b_baba^¥aaaa`[^a` `aa`_aa^^
@HWI-EAS443:3:78:95:514#0/1
GCGTGGGGACATCAAGATACAGCAAGAAGTTCAAGCCGGA
+HWI-EAS443:3:78:95:514#0/1
a`_P¥aaa` `` `a][a^_aaa[aaaa_`V^__Z`]Wa^^
@HWI-EAS443:3:80:348:1104#0/1
AACTAGTTCAGACAATGGAACGTGTACCCAGGAGATTTC
+HWI-EAS443:3:80:348:1104#0/1
`aba]]^`aZ]`a]aaa^¥]a]a_____][[[Z^]Y¥^W^
@HWI-EAS443:3:80:586:1390#0/1
TGTGGGGACATCAAGATACAGCAAGAAGTTCAAGCCGGCA
+HWI-EAS443:3:80:586:1390#0/1
WZ_aaa¥_a¥]^^`^^R`MSS_b`Y]ZPG^a]QW_ZSHX
@HWI-EAS443:3:81:1726:1477#0/1
GCTGGGGACATCAAGATACAGCAAGAAGTTCAAGCCGGAA
+HWI-EAS443:3:81:1726:1477#0/1
abbbabab` `aab`abaa`a`_bbaa^a¥__aaZa][a^¥
@HWI-EAS443:3:81:907:492#0/1
GGGAGAATGAACTATTACTGGACACTAGTAGAGCCGGGGA
+HWI-EAS443:3:81:907:492#0/1
abb`b^aaaaaaaaaaaaaaaaaaaaa_aa`_aa__ ``__¥` ``
@HWI-EAS443:3:82:195:137#0/1
GCCATCCATCTACCATCCCTGTCCACCCCTTCAATGAC

+HWI-EAS443:3:82:195:137#0/1
V¥_NZ¥TZTHZ¥_a`_P¥_Z]MQ[ZXQU_ZYKDYaRSXXH
@HWI-EAS443:3:82:391:152#0/1
GCTGCTCTTCAGGTCGGCTGCATATCCTGACCCCTGCTCA
+HWI-EAS443:3:82:391:152#0/1
a`[]^`_`_][W[`Y^]SUPZKNV¥[UULLEIS[SPYNTQU
@HWI-EAS443:3:84:1574:1621#0/1
GTTATTATCATTTCAGATACACCAGTCCACGATTGCAATA
+HWI-EAS443:3:84:1574:1621#0/1
aNbaa`Y]___a`Sa_a`¥`V_a_SV__`U_XaXa]^ [
@HWI-EAS443:3:84:558:509#0/1
GCTGGGGACATCAAGATACAGCAAGAAGTTCAAGCCGGAA
+HWI-EAS443:3:84:558:509#0/1
^]W^)`SS_a_a[_a[[_T`[X_`a`_`T[_aZ`aU_^NR
@HWI-EAS443:3:86:140:813#0/1
GTAGGGGTCAGGATATGCAGCCGACCTGAAGAGCACACAG
+HWI-EAS443:3:86:140:813#0/1
[DZa]Z`Raa^a`^`aa_a_Y`a__[]_VY]___`^`¥__
@HWI-EAS443:3:87:1193:1586#0/1
GGAGGGGTCAGGATATGCAGCCGACCTGAAGAGCACACAG
+HWI-EAS443:3:87:1193:1586#0/1
`bHR`a_R[aaaSXaUaS]SRWa]^`aVVX]ZYPRXSUZa
@HWI-EAS443:3:88:347:685#0/1
GAAATCTCCTGGGTAACACGTTCCATTGTCTGAACTAGTT
+HWI-EAS443:3:88:347:685#0/1
aXRWPZ_X]Z]ZVG_¥]XS[]^[] [SNXYP¥]ZPZ_¥[PL
@HWI-EAS443:3:88:482:1768#0/1
GTCCACGATTGCAATACAACCTTGTGAGACACCCAAGGGGG
+HWI-EAS443:3:88:482:1768#0/1
¥IN^`¥^¥MGXb`Ya]a_Y_a_[ZNXXX`VM¥UX¥RDQ
@HWI-EAS443:3:88:832:1504#0/1
GTCCTCGTGCTATGGGGCATTACCATCCATCTACTAGCG
+HWI-EAS443:3:88:832:1504#0/1
a)`a]aaaaabX^a[_`a`a_ab[^]_a_a]_Z`^^¥G^
@HWI-EAS443:3:89:1714:1458#0/1
GAAATCTCCTGGGTAACACGTTCCATTGTCTGAACTAGTT
+HWI-EAS443:3:89:1714:1458#0/1
``a`U¥baaaab][b``aaaaaa[aa`a__`a`N¥]`_Z
@HWI-EAS443:3:8:1568:1285#0/1
GCTGGCTGGATCCTGGGAAATCCAGAGTGTGAATCACTAT
+HWI-EAS443:3:8:1568:1285#0/1
aYF¥a]aa¥]WWSa]S]__VPHNP^SBBBBBBBBBBBBBB
@HWI-EAS443:3:90:117:1041#0/1
GAAATCTCCTGGGTAACACGTTCCATTGTCTGAACTAGTT
+HWI-EAS443:3:90:117:1041#0/1
a_baaaa_aab_aX`a^a`Z^a_^Y_]Va_a^¥^¥_aU]
@HWI-EAS443:3:91:1563:1178#0/1
ATTTTGTCTCCCGCTCTACTAGTGTCCAGTAATAGTTGA
+HWI-EAS443:3:91:1563:1178#0/1
Kba[¥Z[`bb_`aU[___a][a`bbb`PYaaXabVRYG¥DU

@HWI-EAS443:3:92:142:1630#0/1
CAGGGATGGTAGATGGATGGTACGGTTATCACCATCAACA
+HWI-EAS443:3:92:142:1630#0/1
¥_Q¥X[_[RU]]Z__`^UK[Y_JQSW]_RZPZZ]aBBB
@HWI-EAS443:3:92:1565:478#0/1
GGGTGGACAGGGATGGTAGATGGATGGTACGGTTATCANC
+HWI-EAS443:3:92:1565:478#0/1
]¥b`bbbabbbbabbaab_aabbab_YUa^][bbb]G[DS
@HWI-EAS443:3:92:1604:1736#0/1
GAAATCTCCTGGGTAACACGTTCCATTGTCTGAACTAGTT
+HWI-EAS443:3:92:1604:1736#0/1
abbaa`b¥`abb_0^a_aY`[YaWaa^^^`a`aW^`]]_
@HWI-EAS443:3:94:1633:426#0/1
CGGCTCCTCATAATCGATGAAATCTCCTGGGTAACACGTT
+HWI-EAS443:3:94:1633:426#0/1
`abab^`aaab_a`[_aabaaaa^__aa`aXa`S_]`X`
@HWI-EAS443:3:95:1683:1602#0/1
AATGCTGTGAACTGTGTATTCATCTTTTCAATAACAGAAT
+HWI-EAS443:3:95:1683:1602#0/1
YNabaXTabXVS_[Y¥[_aVba]]Xa]]T_`[^`aabba
@HWI-EAS443:3:96:153:258#0/1
CAGCCGGTTTCATTGAAGGGGGTGGACAGGGATGGTAGA
+HWI-EAS443:3:96:153:258#0/1
aa^Y[XTR¥XOWa]]^a`a¥Y[RV¥Y]W_^YMW`¥PW¥¥
@HWI-EAS443:3:96:534:1894#0/1
GAAATCTCCTGGGTAACACGTTCCATTGTCTGAACTAGTT
+HWI-EAS443:3:96:534:1894#0/1
a^^`[bba[a^Z`Yaa]b_abbaabaa¥a¥aabb^aa[_`
@HWI-EAS443:3:97:752:820#0/1
GGAGGGGTCAGGATATGCAGCCGACCTGAAGAGCACACAG
+HWI-EAS443:3:97:752:820#0/1
a`[`bZ^]aaaaaaaaa¥[_a]¥U`a`aaX`^][`aa`
@HWI-EAS443:3:99:1561:363#0/1
CTTCTTGCTGTATCTTGATGTCCCCACAAAAACATATGAA
+HWI-EAS443:3:99:1561:363#0/1
ab^^aababbabb]bbb¥abbY^_bbab¥a`a_abbbbHb
@HWI-EAS443:3:99:745:2007#0/1
AACTAGTTCAGACAATGGAACGTGTTACCCAGGAGATTTTC
+HWI-EAS443:3:99:745:2007#0/1
a_a¥aaRaabaaaa`a_a`a`__`__^Z`_aa_^Z`V_
@HWI-EAS443:3:100:411:549#0/1
CGTGGGACATCAAGATACAGCAAGAAGTTCAAGCCGGAA
+HWI-EAS443:3:100:411:549#0/1
ababbbbaabbabbbbaa`abbbbabbaaYbbbaabbab
@HWI-EAS443:3:10:1312:171#0/1
CGTTACCCAGGAGATTTTCATCGATTATGAGGAGCTAAGAG
+HWI-EAS443:3:10:1312:171#0/1
abbbba`bbbbb`bab^baabaaaabb`baYa[ab`^aa
@HWI-EAS443:3:10:1736:1147#0/1
ATGCTTCTCTGAGTATTTTGGGTAGTCATAAGTCCCATT

+HWI-EAS443:3:10:1736:1147#0/1
a`Z¥a__b_aa`a]_aaa`^[U_a^R[_^]^[RUXZ__
@HWI-EAS443:3:11:1050:1222#0/1
AGCTGGCTGGATCCTGGGAAATCCAGAGTGTGAATCACTC
+HWI-EAS443:3:11:1050:1222#0/1
aa]X`aa)`a`^`_¥[``U¥^SVOZ¥[XRZPX[^ZRXPVB
@HWI-EAS443:3:11:1171:1656#0/1
CCCAGGAGATTTTCATCGATTATGAGGAGCTAAGAGAGCAG
+HWI-EAS443:3:11:1171:1656#0/1
¥0]U`_Ub]^YUXSZXaa`YX`Z_a_a[_]Y[V[]B
@HWI-EAS443:3:11:158:837#0/1
TGGGGGGTGGACAGGGATGGTAGATGGATGGTACGGTTAT
+HWI-EAS443:3:11:158:837#0/1
aaa`babNa]Z__aaa^`aaWWa`Za_[a^U`_`XS_[U
@HWI-EAS443:3:11:30:643#0/1
CGGGGCATTCACCATCCATCTACTAGTGCTGACCAACAAA
+HWI-EAS443:3:11:30:643#0/1
a`babb`aaa`aaaa`a`_`_`a_a`^`a`a]```_^_Y_[_`
@HWI-EAS443:3:11:441:261#0/1
AGCCGGTTTCATTGAAGGGGGTGGACAGGGATGGTAGAT
+HWI-EAS443:3:11:441:261#0/1
aaaabbXaaaZaaa`aa`a_Wa__¥_____V__^U¥¥WV
@HWI-EAS443:3:12:306:422#0/1
CACGTGTACCAGGAGATTTTCATCGATTATGAGGAGCTA
+HWI-EAS443:3:12:306:422#0/1
I¥b`Yaaaabbbb]WYaaa]`aaaaa`aaaa`a`a_aa`]
@HWI-EAS443:3:12:326:1212#0/1
AGTGGGGACATCAAGATACAGCAAGAAGTTCAAGCCGGAA
+HWI-EAS443:3:12:326:1212#0/1
abWa^a^Va`^`a¥`^Yaaa`^`a__a0^`a`^`^`^ZS
@HWI-EAS443:3:12:478:1706#0/1
CGTGGGGACATCAAGATACAGCAAGAAGTTCAAGCCGGAA
+HWI-EAS443:3:12:478:1706#0/1
__0[LP]¥¥¥W¥_Waa]`ab¥Xa_]_GRU]¥XXXaV[_`
@HWI-EAS443:3:12:990:884#0/1
CGGGACATCAAGATACAGCAAGAAGTTCAAGCCGGAAATA
+HWI-EAS443:3:12:990:884#0/1
aaaaa`aaaaa`a`_aaaaa`__aX`_a^^_]`Y^^`_
@HWI-EAS443:3:13:1191:371#0/1
CGCTGGCTGGATCCTGGGAAATCCAGAGTGTGAATCACTC
+HWI-EAS443:3:13:1191:371#0/1
abaa_W]`b`_aZa`aaX`_¥[_`a`^`¥_S[^__U^U¥¥`
@HWI-EAS443:3:13:1340:1234#0/1
CGCACGTGTTATCGCATTGTGGTAAAATTCAAAGCAGCC
+HWI-EAS443:3:13:1340:1234#0/1
abaaaa`abaa_aa_ab`a^aa^ab``aaWa__`¥`_UX
@HWI-EAS443:3:13:1344:758#0/1
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+HWI-EAS443:3:13:1344:758#0/1
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+HWI-EAS443:3:13:350:1038#0/1
_^bb`¥aa`bbaaaaaababaa`a_aaaaa_`b`_aa_a
@HWI-EAS443:3:13:517:416#0/1
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+HWI-EAS443:3:13:517:416#0/1
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@HWI-EAS443:3:14:1065:660#0/1
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+HWI-EAS443:3:14:1065:660#0/1
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@HWI-EAS443:3:14:936:1219#0/1
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+HWI-EAS443:3:14:936:1219#0/1
aaabaZY_Y^aaaa`[aa`¥aa``_a_aa_``_`_a_^`
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ATCCGGCTTGAACCTTCTTGCTGTATCTTGATGTCCCCACA
+HWI-EAS443:3:15:301:714#0/1
aaaaa`]aaa`a`aaaa``a^aa`aa_`a^``__`Z_
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+HWI-EAS443:3:15:507:331#0/1
ababba`bba]bb[]baba`bL`S``_P_`aZ[^`]'`aa
@HWI-EAS443:3:15:932:479#0/1
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+HWI-EAS443:3:15:932:479#0/1
abbbbaaa[aa^abaabb`baabbaab``]``^aaaaaaa
@HWI-EAS443:3:15:994:198#0/1
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+HWI-EAS443:3:15:994:198#0/1
ab`bbbaa]Z`a]ba__aaaaaaa`^a^`_]`[_aa__
@HWI-EAS443:3:16:1077:341#0/1
ATGCTTCCTCTGAGTATTTTGGGTAGTCATAAGTCCCATT
+HWI-EAS443:3:16:1077:341#0/1
TaZ``^`^abb`Yaa^aaZYVKaXRH_`_O_ZHVW¥Y^
@HWI-EAS443:3:16:111:199#0/1
AGAGCACACAGAATGCCATTGACGAGATTACTAACAAAGC
+HWI-EAS443:3:16:111:199#0/1
`Y¥```aYZ]_YZ__¥Z^__aZza`a]W^Q[^ZWHH]¥XD
@HWI-EAS443:3:16:1397:604#0/1
CGTGGGGACATCAAGATACAGCAAGAAGTTCAAGCCGGAA
+HWI-EAS443:3:16:1397:604#0/1
``_a`a`aba__aba`^`aaabaa^¥_]`^``_`N¥^a_Z
@HWI-EAS443:3:16:1659:1857#0/1
GCTCGTCAATGGCATTCTGTGTGCTCTTCAGGTCGGCTGC
+HWI-EAS443:3:16:1659:1857#0/1
aaa^aX^aa^[`0`]Z_Q^T[YYP¥U¥]NX^YFNOVB BBB
@HWI-EAS443:3:16:175:283#0/1
TAGGGGTCAGGATATGCAGCCGACCTGAAGAGCACACAGA

+HWI-EAS443:3:16:175:283#0/1
aaaa_aU_aaaa_a__aa^Za`a`a` `¥KZ_Z__^T]¥¥
@HWI-EAS443:3:16:845:1491#0/1
GGGGGACATCAAGATACAGCAAGAAGTTCAAGCCGGAAAT
+HWI-EAS443:3:16:845:1491#0/1
a]]aaaa__a`aaaa_`]a_aa`_T`]]_a]_^]X^^^__
@HWI-EAS443:3:16:951:1658#0/1
CGTGGGGACATCAAGATACAGCAAGAAGTTCAAGCCGGAA
+HWI-EAS443:3:16:951:1658#0/1
a`Ua`^a_aaaaaaa`aaa` `aaa[_`^]ab_a_]`^]`_
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+HWI-EAS443:3:17:1793:244#0/1
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@HWI-EAS443:3:17:678:467#0/1
CGGGGACATCAAGATACAGCAAGAAGTTCAAGCCGGAAAT
+HWI-EAS443:3:17:678:467#0/1
abaaaaa_a`ab` `a_` ` `aa_Ya]^aa`^^Za`_]_^
@HWI-EAS443:3:18:1742:1210#0/1
ATCCGGCTTGAACCTTCTTGCTGTATCTTGATGTCCCCACA
+HWI-EAS443:3:18:1742:1210#0/1
aa`__a_aaa`aWaa]baa^aa__a^aaa^`a_]Z]^]^
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+HWI-EAS443:3:18:319:1061#0/1
^_`Xa]baXY`X`aaW[]^]XY^W¥RX[N]GU[GRb^Y`^
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+HWI-EAS443:3:18:41:1157#0/1
aaba]abaa____^Va` ` `[_`W^]Q]^_[W[[`]]^^`_
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CGTGGGGACATCAAGATACAGCAAGAAGTTCAAGCCGGAA
+HWI-EAS443:3:18:440:640#0/1
aa¥a^]]`ZW¥Z]]`Y`_a`a]¥¥V[G[FNYaa_W¥TXYS
@HWI-EAS443:3:18:913:358#0/1
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+HWI-EAS443:3:18:913:358#0/1
aa[`aa` `[a_`a_` `^a^`^]_aa^]`Y^X^V^VV_]_]_
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GGCTGGCTGGATCCTGGGAAATCCAGAGTGTGAATCACTC
+HWI-EAS443:3:19:1201:1340#0/1
aXW_b¥X¥]^XXUF^`aaaaa¥]a^` [][a]` ` `Y^¥
@HWI-EAS443:3:19:864:512#0/1
AGCCGGTTTCATTGAAGGGGGTGGACAGGGATGGTAGAT
+HWI-EAS443:3:19:864:512#0/1
aaaaba_aa`¥`aa^_a`¥aaa¥`V¥¥`_^` `¥W_ZV^_ZU
@HWI-EAS443:3:1:764:559#0/1
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+HWI-EAS443:3:1:764:559#0/1
T`bab^¥abbZ_`¥¥X¥]QX]UXaaaS_a¥b¥` [_X_BBB

@HWI-EAS443:3:20:1243:256#0/1
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+HWI-EAS443:3:20:1243:256#0/1
[aVXN[Y[]`[`a]a__W¥ba``aba^_V`U^W]aX`[H
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CGCACGTGTTATCGCATTGTGGTAAAATTCAAAGCAGCC
+HWI-EAS443:3:21:842:544#0/1
aaaa]a[]aaba`a^`baaa_`_]aaa`a`___`VZ`U^
@HWI-EAS443:3:22:721:1318#0/1
GTTATTTTGTCTCCCGGCTCTACTAGTGTCCAGTAATAGG
+HWI-EAS443:3:22:721:1318#0/1
a`]Y¥XS^]0a`a[`YRP[VSBBBBBBBBBBBBBBBBBB
@HWI-EAS443:3:23:1504:319#0/1
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+HWI-EAS443:3:23:1504:319#0/1
^_Yb`abbbaa^aaaabbab]^_`baba^`^`a_a_a_^]
@HWI-EAS443:3:23:501:517#0/1
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+HWI-EAS443:3:23:501:517#0/1
a`aaXb]aa_`_]`NYU^XYV`__VY_[W_Z]_¥]X]WWX
@HWI-EAS443:3:23:64:1601#0/1
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+HWI-EAS443:3:23:64:1601#0/1
`abbababaa_^bbabbabb_ba_aa__`_]aaa_^_a`
@HWI-EAS443:3:24:1269:169#0/1
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+HWI-EAS443:3:24:1269:169#0/1
`baaabaaaa`aa`a`a`_]`_W^^]_]_ZZY_]W]V]
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+HWI-EAS443:3:24:1305:419#0/1
Ma````ab]^`a^[_bbbba``]bbabb_abbY`_babbb
@HWI-EAS443:3:24:1456:1655#0/1
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+HWI-EAS443:3:24:1456:1655#0/1
H_babK____]]]ba`bba¥X_bb_U^aaaabbX`a]b`a¥
@HWI-EAS443:3:24:1480:555#0/1
AGCTGGCTGGATCCTGGGAAATCCAGAGTGTGAATCACTC
+HWI-EAS443:3:24:1480:555#0/1
aaa[[]`ZV]aa]^`aaba]aX^]X_Y^`¥^YaaZPY^G]^
@HWI-EAS443:3:24:1586:1206#0/1
GGGGTCTTATTGCTATTTCCGGCTTGAACCTTCTTGCTGTA
+HWI-EAS443:3:24:1586:1206#0/1
ab¥]]YW¥^aab_bZ_ba`H^VY_¥QLXN`XL^¥S]U]M]
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AGGCTGCATATCCTGACCCCTGCTCATTGATGGTGATA
+HWI-EAS443:3:24:1701:406#0/1
aab][aaabaaaa_a]``_]X_[``_^_a_^^`U`]V]
@HWI-EAS443:3:24:246:265#0/1
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+HWI-EAS443:3:24:246:265#0/1
ZRYV_]^[V`]``T`0Q0JNW¥`ZaZ`^^RN_LZOWZF
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+HWI-EAS443:3:25:1007:1746#0/1
aa¥a`_]][]`_`_^^^_a__a_Z`^`____`^^^]__YUO
@HWI-EAS443:3:25:1010:1308#0/1
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+HWI-EAS443:3:25:1010:1308#0/1
`abba`bbbbbbabbbba^bbbbbbba`baZbbbbbaYaY^a
@HWI-EAS443:3:25:1320:1334#0/1
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+HWI-EAS443:3:25:1320:1334#0/1
H[`__¥W_` `V_¥__W_[[U_¥^¥_¥¥RY_ZP[a[¥YZVH
@HWI-EAS443:3:25:485:2047#0/1
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+HWI-EAS443:3:25:485:2047#0/1
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CGTGGGGACATCAAGATACAGCAAGAAGTTCAAGCCGGAA
+HWI-EAS443:3:25:633:944#0/1
a¥Pa^abb_Z¥aaZ_U^X`]ZU_a[_]`VFZ¥KUXVaQ__
@HWI-EAS443:3:25:709:496#0/1
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+HWI-EAS443:3:25:709:496#0/1
abbbb`abbbbbbbbaabbaa`_baa`aa`ba_aa_aa`¥`
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TGCCGGGAGACAAAATAACATTCGAAGCAACTGGAAATCT
+HWI-EAS443:3:25:972:200#0/1
`]L[a]OXa]VURZ`PaaS`a]¥aa[XK¥TGLQ[I]UVGV
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+HWI-EAS443:3:26:129:147#0/1
_a`abaaaaabaaS`aaSa`_W`]X`aY`¥]__U_VUT
@HWI-EAS443:3:26:27:1367#0/1
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+HWI-EAS443:3:26:27:1367#0/1
aaa`[`aaa`baba`a`a`^¥^^^`a^_a_Z``[Y`_`]
@HWI-EAS443:3:26:477:712#0/1
TGTAATCTCGTCAATGGCATTCTGTGTGCTCTTCAGGTCG
+HWI-EAS443:3:26:477:712#0/1
a^JaZbaa_¥Ub¥U[_X``aa][`_]]^a_aaa¥aX`_`_`
@HWI-EAS443:3:27:113:190#0/1
CTGCCGGTTTCATTGAAGGGGGTGGACAGGGATGGTAGA
+HWI-EAS443:3:27:113:190#0/1
aa`baba^]aaaa`a[[`^aa`W^[^[_^VUY`_UZ^¥
@HWI-EAS443:3:27:1577:2022#0/1
TCCGGTTTCATTGAAGGGGGTGGACAGGGATGGTAGATG
+HWI-EAS443:3:27:1577:2022#0/1
K`__aa^`abb`J_b`_`baYS_]MX_bbaaZWY_aa`b

@HWI-EAS443:3:27:161:19#0/1
AGCTGCTTTGAATTTTACCACAAATGCGATAACACGTGCA
+HWI-EAS443:3:27:161:19#0/1
YW`^`_^`]T^abab`aa`a^¥aaaa`]T```¥`_``a
@HWI-EAS443:3:28:1793:1952#0/1
NGGTAGTCCAAAGTTCTTTTCATTTTCCAATAGAACCAACA
+HWI-EAS443:3:28:1793:1952#0/1
DOZZYTNRXUSWVYXYZZWZZZZWYWZZZWZVZZZZWW
@HWI-EAS443:3:28:355:1510#0/1
CAGGGGGGTGGACAGGGATGGTAGATGGATGGTACGGTTA
+HWI-EAS443:3:28:355:1510#0/1
a_a`¥aa^Z`_aaa_[^`_a_Wa__¥`_^`_Wa__UVU_
@HWI-EAS443:3:28:872:511#0/1
GGCTTCTCTGAGTATTTTGGGTAGTCATAAGTCCCATTT
+HWI-EAS443:3:28:872:511#0/1
aaaaaabaab`_[aaaa]aUaa_[aaa^¥^``[_aaa
@HWI-EAS443:3:29:1157:283#0/1
CGCACGTGTTATCGCATTTGTGGTAAAATTCAAAGCAGCC
+HWI-EAS443:3:29:1157:283#0/1
abbaa_babbbabaabaa_bb^babaaaaba`a`aa¥_
@HWI-EAS443:3:29:1256:130#0/1
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+HWI-EAS443:3:29:1256:130#0/1
```¥[N]aaP[_]`aaTHSSQZ^_XYQZXT¥[N[MWBB
@HWI-EAS443:3:29:1611:74#0/1
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+HWI-EAS443:3:29:1611:74#0/1
a`aZa`baa`¥`_SZ¥]N_Z_¥`]W¥¥¥W^WWU`^TW`B
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+HWI-EAS443:3:29:173:1254#0/1
abbaYb__`_]b`a`a`ba]0]_`Va`]X_NTYV_a_aB
@HWI-EAS443:3:29:20:989#0/1
GTACCCCATCTATTTCTTCTCTGTTAATTTTGCTTCCTC
+HWI-EAS443:3:29:20:989#0/1
a_aaaaaaaaa`aaaaaaaa`aa`_a`a`a__`````_a`_`
@HWI-EAS443:3:29:509:1404#0/1
ATCCGGCTTGAACCTTCTTGCTGTATCTTGATGTCCCCACA
+HWI-EAS443:3:29:509:1404#0/1
`Za````aaaWZ_]_Z]_Z[¥Y]YX```¥Z^_WX```¥^X^B
@HWI-EAS443:3:30:1687:586#0/1
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+HWI-EAS443:3:30:1687:586#0/1
[aaXaabb]bbbbbbabbaab`bbbbba`bVbb`R[aZUa
@HWI-EAS443:3:30:253:839#0/1
TGGGTGGACAGGGATGGTAGATGGATGGTACGGTTATCAC
+HWI-EAS443:3:30:253:839#0/1
[bbbYbbaa]^`^aaa`a[aa`^aa]Ua`Ta_aaX_[Z^]]
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+HWI-EAS443:3:30:267:362#0/1
a]aa`U`aaa__aa^ZaaUaa`¥¥^a_a[Ya`]_W¥¥WSY
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+HWI-EAS443:3:31:1290:1160#0/1
W`ba`abb`abbbbbb`abaZ``ab`baaaaa`bXbaaZ`
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GGCTCCTCATAATCGATGAAATCTCCTGGGTAACACGTTC
+HWI-EAS443:3:31:1499:1550#0/1
abaZ`a`b_^R[^]^^`aabb`R]aa[``P¥a]`ab[^S
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+HWI-EAS443:3:31:238:520#0/1
`_`a¥Xa_[¥Z_Z¥Y][`^`Y[X¥N]`^V¥a_RVY^Y¥]
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AGCCGTTTCATTGAAGGGGGTGGACAGGGATGGTAGAT
+HWI-EAS443:3:31:636:1211#0/1
^`ba``_b]baabb^aa_a]^aG^`a`a^a`a^Za`^X
@HWI-EAS443:3:32:110:1257#0/1
AGGGCCATGAACCTGTCTTGGGAATATCTCAAACCTTTC
+HWI-EAS443:3:32:110:1257#0/1
[[R`b`````_a`a_a```a`¥¥_]¥]^¥[¥`¥`a`ZVZ¥^
@HWI-EAS443:3:32:473:1751#0/1
GGGCTGCTTTGAATTTTACCACAAATGCGATAACACGTGC
+HWI-EAS443:3:32:473:1751#0/1
H_baabaabbb_b_Xbbbbabbbbaababbaa^_bba`bb
@HWI-EAS443:3:32:568:1681#0/1
CTGTTATCGCATTGTGGTAAAATCAAAGCAGCCGTTTC
+HWI-EAS443:3:32:568:1681#0/1
aaa```_a`````_aaa]a`_bb`^`]```¥^a`W¥a_X__a
@HWI-EAS443:3:32:76:1653#0/1
CGCACGTGTTATCGCATTGTGGTAAAATCAAAGCAGCC
+HWI-EAS443:3:32:76:1653#0/1
a[`a`_]____a```_]`_]X_^Xa`Y^^]a_STU`^X_¥
@HWI-EAS443:3:33:1242:1364#0/1
CTCCTCTGAGTATTTTGGGTAGTCATAAGTCCCATTTTGTG
+HWI-EAS443:3:33:1242:1364#0/1
aaa`aababa_abbba``a^baababaaa`a]Waaaaaaa
@HWI-EAS443:3:33:1792:1381#0/1
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+HWI-EAS443:3:33:1792:1381#0/1
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@HWI-EAS443:3:34:1295:224#0/1
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@HWI-EAS443:3:35:1151:648#0/1
GGCTGGCTGGATCCTGGGAAATCCAGAGTGTGAATCACTC
+HWI-EAS443:3:35:1151:648#0/1
]X_^`____b]NX]¥PQQ]V_[¥]^Y¥_WEUOX¥WWWZ`^`

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+HWI-EAS443:3:35:1218:1671#0/1
ab`Q_]S¥_^[W_a^a`WUbaaaa`T`ba]^WaaW^Z^
@HWI-EAS443:3:35:358:1286#0/1
CTGGGCCATGAACCTGTCTTGGGGAATATCTCAAACCTTT
+HWI-EAS443:3:35:358:1286#0/1
a`^`aa_T_S`a`_¥_Ua__^¥_ZY__^¥XYa_VW[`YZV
@HWI-EAS443:3:35:46:759#0/1
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+HWI-EAS443:3:35:46:759#0/1
aaba_a`aX[]_Ya_WX_ZNXXYY^^`^^[_]_a`[FRJ
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+HWI-EAS443:3:36:1420:1799#0/1
aabababbbbaabbb`bababb`aabbaabaaaaabbab
@HWI-EAS443:3:36:576:618#0/1
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+HWI-EAS443:3:36:576:618#0/1
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+HWI-EAS443:3:36:805:282#0/1
`b^ZZ¥RX[PX]T[NSYV[___`RIX]R`NT¥^U_]Q_XSG
@HWI-EAS443:3:36:853:1392#0/1
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+HWI-EAS443:3:36:853:1392#0/1
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@HWI-EAS443:3:37:1121:1483#0/1
AGCACGTGTATCGCATTTGTGGTAAAATTCAAAGCAGCC
+HWI-EAS443:3:37:1121:1483#0/1
¥b_aURUUR`¥aP_W_[¥baTMO_b¥a_bG_^S)`]`_I
@HWI-EAS443:3:37:1172:704#0/1
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+HWI-EAS443:3:37:1172:704#0/1
aab_bb`bbaabab`baaaaaa]bab__aW__`abUaa_Y
@HWI-EAS443:3:37:469:187#0/1
CGTGGGGACATCAAGATACAGCAAGAAGTTCAAGCCGGAA
+HWI-EAS443:3:37:469:187#0/1
ab_baaaaaaaaa__Zaaa`a^Z`¥``VRb_N]`P`_]_^
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+HWI-EAS443:3:37:733:601#0/1
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@HWI-EAS443:3:38:362:390#0/1
CGGGTGGACAGGGATGGTAGATGGATGGTACGGTTATCAC
+HWI-EAS443:3:38:362:390#0/1
a_ZWE]aa_Z]^a^`aK`]WY``¥Y`]V_VY¥X_¥YKVU
@HWI-EAS443:3:38:530:168#0/1
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+HWI-EAS443:3:38:530:168#0/1
`bbaaaNbaaa__aa_`^¥_a_¥a_¥¥_UQ¥N][SY¥V
@HWI-EAS443:3:39:1159:260#0/1
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+HWI-EAS443:3:39:1159:260#0/1
aa¥`a`WRV[baaa^X`]bbababa`b_`[Z_a^[aa_W
@HWI-EAS443:3:39:1368:1121#0/1
GCCTCGTGCTATGGGGCATTACCATCCATCTACTAGTGC
+HWI-EAS443:3:39:1368:1121#0/1
abaaabaabbabb[aa[_aaTba[aa_aaa_YaTaaa^aU
@HWI-EAS443:3:39:1529:1149#0/1
ATATGTTTTTGTGGGGACATCAAGATACAGCAAGAAGTTA
+HWI-EAS443:3:39:1529:1149#0/1
]`[aW`babba_aaaZX¥WY`_aa_`[aaZM^`a`USF
@HWI-EAS443:3:39:1539:796#0/1
CATCATTTGAAAGTTTGAGATATCCCCAAGACAAGTTG
+HWI-EAS443:3:39:1539:796#0/1
`¥b`bb_bb_^[ba`bb[ab_bbab]]_a]S`aaaa`_F
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+HWI-EAS443:3:39:671:80#0/1
abbaY```[W[aa]``]`aaaa¥_[a_`¥¥^`a[``_a
@HWI-EAS443:3:39:695:1345#0/1
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+HWI-EAS443:3:39:695:1345#0/1
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+HWI-EAS443:3:3:1539:1161#0/1
a`a^X`a`a_[LU]aZ^a``_^`][a``][MKP]XV_
@HWI-EAS443:3:3:1682:2037#0/1
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+HWI-EAS443:3:3:1682:2037#0/1
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CAGGGGGGTGGACAGGGATGGTAGATGGATGGTACGGTTA
+HWI-EAS443:3:42:144:1050#0/1
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@HWI-EAS443:3:42:160:1698#0/1
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+HWI-EAS443:3:42:160:1698#0/1
K_b_abaaWaab[bbaabbbbaabaab_[baa_b[aabb
@HWI-EAS443:3:42:505:520#0/1
GGGGCCATGAACCTGTCTTGGGGAATATCTCAAACCTTTC
+HWI-EAS443:3:42:505:520#0/1
VaaU`_aaJ[[]aab]`bbbb^`ba[aaabab]^b`[`a
@HWI-EAS443:3:42:863:1356#0/1
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+HWI-EAS443:3:42:863:1356#0/1
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@HWI-EAS443:3:43:1552:890#0/1
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+HWI-EAS443:3:43:1552:890#0/1
a_bbbbaaabbbaabbbb_bbab[bb`_a^bb`babb`b
@HWI-EAS443:3:43:1732:308#0/1
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+HWI-EAS443:3:43:1732:308#0/1
a`¥J_Q_U]PT`]b_a[Ybb¥[V`aab[`[Y`bb_]¥ZG[
@HWI-EAS443:3:44:1193:1048#0/1
ATCCGGCTTGAACCTTCTTGCTGTATCTTGATGTCCCCACA
+HWI-EAS443:3:44:1193:1048#0/1
a`^¥U`aSVa]a]X`bbabaY]Zaaaa]]^[LO]SY_a
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+HWI-EAS443:3:44:1193:1916#0/1
`Z``aaaYa]Saa`aaaa_aa`[``____^N`^WZ`_]V_
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AGCCCAATCATGACTCGAACAAAGGTGTAACGGCAGCATG
+HWI-EAS443:3:44:1465:317#0/1
aaa`_a]aaaba`_a__Z_]`_^`_U_Z]_W__QU[RWBB
@HWI-EAS443:3:44:1567:779#0/1
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+HWI-EAS443:3:44:1567:779#0/1
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@HWI-EAS443:3:44:1770:1603#0/1
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+HWI-EAS443:3:44:1770:1603#0/1
```aaab^ababaaa\_\_baaaa`aaaa[[UY^\_^a^`\_\_  
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GGTGGGACATCAAGATACAGCAAGAAGTTCAAGCCGGAA  
+HWI-EAS443:3:45:1124:647#0/1  
aaTaaaa`a`\_`\_\_a```a^\_aaa^a]^a\_\_[U`^`^]  
@HWI-EAS443:3:45:1254:1292#0/1  
GGCTGGCTGGATCCTGGGAAATCCAGAGTGTGAATCACTC  
+HWI-EAS443:3:45:1254:1292#0/1  
^aab]]Z`\_^¥a^¥`\_aaa]^a`\_^`\_a`^aaaaO\_T`^  
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+HWI-EAS443:3:45:1401:1661#0/1  
aa]bbb`abaababbababbaabbbab^a`aab`Sa`a\_  
@HWI-EAS443:3:46:1268:983#0/1  
GGCTGTGGAGAGTGATTCACACTCTGGATTTCCAGGATC  
+HWI-EAS443:3:46:1268:983#0/1  
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+HWI-EAS443:3:46:938:340#0/1  
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+HWI-EAS443:3:46:9:13#0/1  
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+HWI-EAS443:3:47:1145:506#0/1  
aaabbab`V¥]T\_`\_]a[[`a^[[X[^SZVVU¥¥Y[XU[^  
@HWI-EAS443:3:47:1297:1862#0/1  
GGTGGGGACATCAAGATACAGCAAGAAGTTCAAGCCGGAA  
+HWI-EAS443:3:47:1297:1862#0/1  
\_]Zbb`a`aaa`aaa`aa]a`\_aaaa[^XUXa`a^X\_`]]  
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AGCTTCCTCTGAGTATTTTGGGTAGTCATAAGTCCCATTT  
+HWI-EAS443:3:47:1344:416#0/1  
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@HWI-EAS443:3:47:912:1902#0/1  
TGCCGGGAGACAAAATAACATTCTGAAGCAACTGGAAATCT  
+HWI-EAS443:3:47:912:1902#0/1  
`[\_a`^aa\_`aaaaaa`\_aa`\_aa\_`[^aX`a¥^\_a\_Sa  
@HWI-EAS443:3:48:198:1038#0/1  
CTCCCCTTATGCTTGTCTTCTAGAAGGTTAACAGAGTGTG  
+HWI-EAS443:3:48:198:1038#0/1  
abbbbaababababbXa`bbaba`babaaaaaa`aa`b`\_  
@HWI-EAS443:3:4:1646:281#0/1  
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+HWI-EAS443:3:4:1646:281#0/1  
Y[a`aabaaaabaab`aab`K`V[baZ`]HXZZa`[^a\_  
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CGCCGGTTTCATTGAAGGGGGTGGACAGGGATGGTAGAT  
+HWI-EAS443:3:4:789:920#0/1  
\_`bbbbbababbbababbbIbba`ba^0¥`bb¥aaaW  
@HWI-EAS443:3:4:87:1360#0/1  
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+HWI-EAS443:3:4:87:1360#0/1  
Vb¥^bbb`b``abba`bba¥¥a\_babbabba^R¥Y\_abb\_  
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GGTGGGGACATCAAGATACAGCAAGAAGTTCAAGCCGGAA  
+HWI-EAS443:3:50:1184:1787#0/1  
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+HWI-EAS443:3:50:1598:1855#0/1  
aaZ`^bbbbabba`a]Y`babaabaaaaaba]X`a```a\_  
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+HWI-EAS443:3:50:1643:1902#0/1  
ab]abbaaaaaaa\_aaaa\_aa^ab`aaa^aYa\_`^Xa\_`^`  
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+HWI-EAS443:3:50:612:475#0/1  
\_`b\_`^a¥b`\_aSSa`a``]\_YaU`S]Z\_aa`UR`^XWa



@HWI-EAS443:3:51:365:1835#0/1  
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+HWI-EAS443:3:51:365:1835#0/1  
\_Y[\_]Q`aaaaa\_a^T[]a[a]¥\_`\_\_`a¥W]U`^¥Y  
@HWI-EAS443:3:51:643:161#0/1  
CGCTGGCTGGATCCTGGGAAATCCAGAGTGTGAATCACTC  
+HWI-EAS443:3:51:643:161#0/1  
`\_`J\_\_aaa\_I]``\_aa\_QU`XTR¥\_¥\_VZLT`¥YQ\_UW^  
@HWI-EAS443:3:52:1663:163#0/1  
CGTGGGGACATCAAGATACAGCAAGAAGTTCAAGCCGGAA  
+HWI-EAS443:3:52:1663:163#0/1  
aa¥U`bbab\_abb`aa`aZa`abb]baa\_[]aaaaab\_aa  
@HWI-EAS443:3:52:595:1743#0/1  
CGGGGGGTGGACAGGGATGGTAGATGGATGGTACGGTTAT  
+HWI-EAS443:3:52:595:1743#0/1  
abaaa\_bX`aa``aaa\_aaaG`a^Wa]]¥a\_¥a^a]S^U¥  
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+HWI-EAS443:3:52:773:764#0/1  
a]T\_\_\_\_`\_^\_aZ^]]^]XY^V^^\_YV^RYV`V]XY^XXY  
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+HWI-EAS443:3:53:1020:1725#0/1  
¥babaa`abbb`bb`bbba`a\_bbbba]abbbb`Z^aaa`  
@HWI-EAS443:3:53:371:1629#0/1  
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+HWI-EAS443:3:53:371:1629#0/1  
a]`]]aa`a^`^Za¥Z]^a`^Z``a\_Z`¥\_\_]¥`\_Z]S  
@HWI-EAS443:3:53:610:563#0/1  
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+HWI-EAS443:3:53:610:563#0/1  
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+HWI-EAS443:3:54:1308:992#0/1  
abaV`b[abVJRaaa`aa[a\_`\_b\_`a`¥``Y¥`VMX^  
@HWI-EAS443:3:54:327:355#0/1  
TTGCAGCCGACCTGAAGAGCACACAGAATGCCATTGACGA  
+HWI-EAS443:3:54:327:355#0/1  
abb\_Z]a`]¥[]aa\_\_TY``a\_a¥a^`a\_a]R\_\_aa\_W`Z  
@HWI-EAS443:3:54:370:1777#0/1  
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+HWI-EAS443:3:54:370:1777#0/1  
aababaaaaba\_aaaaa\_aa[aa\_a\_aa`a\_^\_^`aaaa`  
@HWI-EAS443:3:55:1251:1001#0/1  
CGTGGGGACATCAAGATACAGCAAGAAGTTCAAGCCGGAA  
+HWI-EAS443:3:55:1251:1001#0/1  
ab\_`]^^V]aa````a`a`aaaaba]`aN\_aba`^]a`\_`  
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CCCCGCTTGAACCTTCTTGCTGTATCTTGATGTCCCCACAA



@HWI-EAS443:3:59:396:241#0/1  
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+HWI-EAS443:3:59:396:241#0/1  
abaaa]\_ba`a^`aYaaa]Y][a\_a`a`\_aY^)`WS¥\_\_  
@HWI-EAS443:3:59:813:791#0/1  
CGGCTGCTTTGAATTTTACCACAAATGCGATAACACGTGG  
+HWI-EAS443:3:59:813:791#0/1  
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CCTCGTCAATGGCATTCTGTGTGCTCTTCAGGTCGGCTGC  
+HWI-EAS443:3:59:961:849#0/1  
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+HWI-EAS443:3:59:97:404#0/1  
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@HWI-EAS443:3:59:991:1221#0/1  
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+HWI-EAS443:3:59:991:1221#0/1  
ab`aTa\_baaa\_b]aabbabbbba\_b`bba\_\_\_\_TR^YV  
@HWI-EAS443:3:5:1259:1839#0/1  
TAGAATGCAGATGCATATGTTTTTGTGGGGACATCAAGAT  
+HWI-EAS443:3:5:1259:1839#0/1  
a`b]Y`a`[^]W]R^a^aaX\_\_`a^Yaaaa^``]Yaa`\_Z  
@HWI-EAS443:3:5:577:1276#0/1  
ATCCGGCTTGAACCTTCTTGCTGTATCTTGATGTCCCCACA  
+HWI-EAS443:3:5:577:1276#0/1  
`^a\_a`\_bbaaa0a`[aaaaaT`^`[aa]R\_a^^`\_U`  
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+HWI-EAS443:3:61:1637:189#0/1  
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+HWI-EAS443:3:61:53:711#0/1  
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+HWI-EAS443:3:62:1146:1369#0/1  
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@HWI-EAS443:3:62:1376:1228#0/1  
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+HWI-EAS443:3:62:1376:1228#0/1  
a\_aa`aa[``\_`\_a`a`aa`aaa\_a\_\_a``a`^a\_\_[``\_`  
@HWI-EAS443:3:62:1734:647#0/1  
GTCCTCTGAGTATTTTGGGTAGTCATAAGTCCCATTTTTG  
+HWI-EAS443:3:62:1734:647#0/1  
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+HWI-EAS443:3:62:351:682#0/1  
^0^`\_`baXUUa`aa\_W^N^U`\_\_¥RJM\_``W\_`\_^^[L  
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+HWI-EAS443:3:62:572:43#0/1  
]¥a\_^\_[^UVZY]]RZH]YUYLV¥BBBBBBBBBBBBBBB  
@HWI-EAS443:3:62:639:558#0/1  
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+HWI-EAS443:3:62:639:558#0/1  
X]\_a¥Z\_¥[\_¥\_YWa^Z\_\_b`\_ab`]XZF[a]aY[XZ]W]  
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+HWI-EAS443:3:62:928:1610#0/1  
abaaa]ZR]^aaaa`a^`\_Zaa]S]¥\_\_aXUa`¥\_V]¥[  
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@HWI-EAS443:3:63:932:1172#0/1  
AGCCCCAGGGAGACTACCAATGAAGTGGCGACA  
+HWI-EAS443:3:63:932:1172#0/1  
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+HWI-EAS443:3:65:1057:1821#0/1  
abY\_aa\_aaaaaa`aaaab\_`baaaaaS\_`a`\_^a¥\_`  
@HWI-EAS443:3:65:161:430#0/1  
CGCACGTGTATCGCATTGTGGTAAAATCAAAGCAGCC  
+HWI-EAS443:3:65:161:430#0/1  
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GTGCCGGTTTCATTGAAGGGGGTGGACAGGGATGGTAGA  
+HWI-EAS443:3:65:432:1965#0/1  
`P¥aa\_`S\_^aa`^]\_aaZZ][[R`X]PX``Y[Z¥RP¥\_`  
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+HWI-EAS443:3:66:1155:324#0/1  
aabaaa\_a]`abbbY\_baab\_aVaaUTaa\_aZ\_a`Ua¥\_¥  
@HWI-EAS443:3:66:1510:370#0/1  
AATCCGATCACAATTGAAAAATGTCCAAAATATGTAAAAA  
+HWI-EAS443:3:66:1510:370#0/1  
aaaaa`aa`a\_a\_a\_aa`aa``aY\_\_a^\_a`aaa\_\_a```  
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+HWI-EAS443:3:66:1583:360#0/1  
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@HWI-EAS443:3:66:638:1082#0/1  
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+HWI-EAS443:3:66:638:1082#0/1  
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ab\_aaa\_aaaaaab\_aabbaa`baa\_b\_aa\_W\_a\_`a\_U  
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+HWI-EAS443:3:68:1004:599#0/1  
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@HWI-EAS443:3:68:1073:570#0/1  
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+HWI-EAS443:3:68:1073:570#0/1  
aaa[a^`aabbababaab`ababbaaba[aaaa`aaaa`a  
@HWI-EAS443:3:68:1110:1268#0/1  
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+HWI-EAS443:3:68:1110:1268#0/1  
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@HWI-EAS443:3:68:1243:842#0/1  
TGCTCCTCATAATCGATGAAATCTCCTGGGTAACACGTTC  
+HWI-EAS443:3:68:1243:842#0/1  
\_]aaa¥^\_]Y¥\_^]]^a]]a\_¥U^Z`Y`X[[\_`^aX[Y  
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+HWI-EAS443:3:68:548:1832#0/1  
a`a`\_¥X^Ua`a`aaa^\_aa]aa\_\_`[``````¥\_`\_\_`\_  
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+HWI-EAS443:3:6:586:230#0/1  
ab`]^a`\_[ab^]a^aa]a^`ab[[\_`a]a`\_X\_^Z^\_¥B  
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+HWI-EAS443:3:70:87:407#0/1  
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+HWI-EAS443:3:71:1044:239#0/1  
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aY`TT\_a^a`a\_]R\_Va¥¥aaH[^MY¥U\_ZLLV¥\_^P^RS  
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+HWI-EAS443:3:71:161:1727#0/1  
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DM[[[[ZVZ[YYYZYV[[[Z[[[[[[[W[Z[[Y[Z[[[[[[  
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+HWI-EAS443:3:71:47:1672#0/1  
a¥]\_LMXZTa`¥F¥aa`a\_^\_a`\_\_U]aa\_]^[ZWWO^V  
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+HWI-EAS443:3:72:969:827#0/1  
a^bba¥U\_^bbY\_ab\_abaa`b`\_^`a]bbPY^X¥`a`XJ  
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+HWI-EAS443:3:73:1442:25#0/1  
¥Z^bb¥`^^`RW¥^`^VU\_\_R\_^LY\_X^aa]`UFZZ]GZL  
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aaa¥a\_\_aa\_[\_Y`^`^\_\_^a\_^`\_\_`^]BBB BBBB  
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`\_Ubab`]b^a^[a\_`^`ba¥\_[Z0¥aX^b^¥`]aa¥¥XS  
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`[^`^aa¥`\_`¥[\_`]a`T[^`\_NY`^a```Ka\_NPS]``  
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+HWI-EAS443:3:76:854:1668#0/1  
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+HWI-EAS443:3:76:92:700#0/1  
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+HWI-EAS443:3:77:1304:863#0/1  
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+HWI-EAS443:3:77:1724:1151#0/1  
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+HWI-EAS443:3:78:521:717#0/1  
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+HWI-EAS443:3:79:888:701#0/1  
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+HWI-EAS443:3:80:1447:610#0/1  
aaaa^V]¥` `a^aa`¥\_a`a\_aa]^`\_]`Y`a\_ZS^^\_T  
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+HWI-EAS443:3:80:318:1129#0/1  
a`[aa`aS¥`X`[aaaa\_¥`¥`\_`\_`\_V[`^Na¥^]G[[P  
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+HWI-EAS443:3:81:22:1094#0/1  
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\_^` `a]aWaaaY¥¥X^aVQTZVa`¥¥TXKZP\_Y^VY[[V]  
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+HWI-EAS443:3:82:971:549#0/1  
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aaa`bbbab`bba]^`a\_a` `aaaa` ` `R\_\_\_\_\_ `^^\_¥\_  
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+HWI-EAS443:3:84:452:1594#0/1  
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+HWI-EAS443:3:84:968:1152#0/1  
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+HWI-EAS443:3:84:99:1541#0/1  
a`a^JW`^Z[[a^^\_aX^N\_\_^R]RZ]^¥¥WWW`^\_\_\_\_]  
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+HWI-EAS443:3:85:120:1539#0/1  
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+HWI-EAS443:3:85:1301:1283#0/1  
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aaaa^a^Zaaa`aaaa`\_aaaab`\_`a`a`\_aaa\_a\_a\_\_  
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+HWI-EAS443:3:87:859:142#0/1  
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+HWI-EAS443:3:88:439:1142#0/1  
\_V¥abb^aababab`[`¥^a``Ya\_a`\_`^`^Za`¥\_\_Z¥  
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+HWI-EAS443:3:93:1237:1236#0/1  
a^^[[^```Z\_a^\_\_XX\_a`Z^^Z`V¥]S[`^YR\_\_]\_] ]  
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+HWI-EAS443:3:97:1618:352#0/1  
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+HWI-EAS443:3:97:61:631#0/1  
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aa¥Q\_bY`^`a]a\_aaa[^PZaZaaa\_\_^```]Nb`a]0\_  
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+HWI-EAS443:3:98:969:806#0/1  
]`^b`Zaa^¥ba`U\_baa\_^aYZb\_a`X`aa¥ZQ]`baa  
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+HWI-EAS443:3:9:885:888#0/1  
aa\_a[\_a\_a`aa`]\_`\_\_^]¥^\_YUU]¥`S\_X¥¥¥¥W^W  
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+HWI-EAS443:3:100:1072:604#0/1  
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+HWI-EAS443:3:100:1252:320#0/1  
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@HWI-EAS443:3:100:84:359#0/1  
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+HWI-EAS443:3:100:84:359#0/1  
aaaa`aaaa^Sa\_a`a`a^a\_```]`^^\_\_\_`^`S`\_\_\_]  
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aaa]a`]`a\_PY\_\_aaaaYY]\_\_`^¥0\_ZLZ\_\_]\_R^Z`]  
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a`^^^\_b\_ab\_aa^[`T\_NS`]`X[a\_]Y\_^¥XQYZR[  
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+HWI-EAS443:3:10:164:435#0/1  
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^aa`\_aaaa]aaa\_a¥`a[`V`\_\_¥V^a^V[]VV\_V]YH  
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+HWI-EAS443:3:10:26:740#0/1  
`a^SZZ\_^`\_M[¥\_]`]^`^]\_\_\_\_\_`a`\_[T`YW]a\_\_  
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`¥`a`a`\_ZR`a`aaYa]][\_aaa^¥\_Z]\_\_`\_`]  
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+HWI-EAS443:3:10:621:910#0/1  
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+HWI-EAS443:3:10:673:303#0/1  
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+HWI-EAS443:3:11:1079:1496#0/1  
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+HWI-EAS443:3:11:1082:1364#0/1  
aa\_]\_`aaaaa[\_a\_`a`^`aa^\_aY`\_`^`¥\_\_\_\_\_`\_\_[\_  
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CAAGGAAATTGAAACGGCTGCTTTGAATTTTACCACAAA  
+HWI-EAS443:3:11:1091:523#0/1  
`bbabaaabbba\_\_`aaaaaaL\_`aLLZ^`aaHO[¥H^\_[  
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GAAGCCAGTTAAAAACAATGCCAAGGAAATTGGAAACGG  
+HWI-EAS443:3:11:119:17#0/1  
aabaa`aa\_aaaaaa¥aa`\_aa]U[`^`¥`\_]\_\_]\_`[Za\_  
@HWI-EAS443:3:11:1303:421#0/1  
CTGGTGTATCTGAAATGATAATACCAGATCCAGCATTCT  
+HWI-EAS443:3:11:1303:421#0/1  
^`a\_H\_0]a`\_¥^¥V\_b`a`V^b^SW`VSUQXa]]Z^^J¥  
@HWI-EAS443:3:11:1359:822#0/1  
ACTGATTGCCCCAGGGAGACTACCAGTACCAATGAACTG  
+HWI-EAS443:3:11:1359:822#0/1  
aXb\_Z`aa`ZX`Y\_`Va\_aa\_\_`ZU^aW\_S¥W¥\_`^`\_ZNBB  
@HWI-EAS443:3:11:1370:914#0/1  
GGGTGTCTGACAAGTTGTATTGCAATCGTGGACTGGTGTA  
+HWI-EAS443:3:11:1370:914#0/1  
`[\_`SaRZaa^M^\_]\_W\_^Z`X^UZZ^^^]ZZ^Z]Z^ZW

@HWI-EAS443:3:11:1403:1184#0/1  
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+HWI-EAS443:3:11:1403:1184#0/1  
a]a[XS\_\_`Y^ab`UW]a`aaa\_0¥X\_Lbbaaa\_LSL\_]b  
@HWI-EAS443:3:11:1409:1807#0/1  
GGCTAGTTAAAAAAGGAAATTCATACCCAAAGCTCAGCAA  
+HWI-EAS443:3:11:1409:1807#0/1  
a\_\_b^Vbaa\_aaa\_\_```a[`^\_^S`\_\_¥Y[V]ZP\_^  
@HWI-EAS443:3:11:1414:1731#0/1  
TGGGCCATGAACCTGTCTTGGGGAATATCTCAAACCTTTC  
+HWI-EAS443:3:11:1414:1731#0/1  
aZaa^¥VY`[]Y\_YaLGS\_¥^aZ0]^R^UOW]^YUUZ^^¥  
@HWI-EAS443:3:11:1436:390#0/1  
ATGAAAAGGTAAGAAGCCAGTTAAAAACAATGCCAAGGA  
+HWI-EAS443:3:11:1436:390#0/1  
R\_a^IW¥\_[U[`bWT¥abb¥TZ`b¥^][JZ^a]aY\_V¥ba  
@HWI-EAS443:3:11:1492:631#0/1  
TTTTCTTGGCATTGTTTTTAACTGGCTTCTTACCTTTTC  
+HWI-EAS443:3:11:1492:631#0/1  
aaaa\_aabbaaab^`a`aa\_\_^`\_]`^`\_S`\_`AY[^]^\_W  
@HWI-EAS443:3:11:1539:1872#0/1  
AGGAGATTTTCATCGATTATGAGGAGCTAAGAGAGCAATTG  
+HWI-EAS443:3:11:1539:1872#0/1  
Y\_¥`\_X`bbNba`S]^`¥^``[]Z]Ra]aTV[F\_BBBB  
@HWI-EAS443:3:11:1554:1144#0/1  
GCACGTGTTATCGCATTGTGGTAAAATCAAAGCAGCCG  
+HWI-EAS443:3:11:1554:1144#0/1  
a[`P\_]a\_a`a`]^`^`\_aZ^AY\_]\_\_S`]Z\_QX]X]¥  
@HWI-EAS443:3:11:1668:1603#0/1  
CCATGAGCTTGCTGTGGAGAGTGATTCACACTCTGGATTT  
+HWI-EAS443:3:11:1668:1603#0/1  
a]a`a\_VY[`XZSbbZaXZPQGWXQTMZ\_]a``XGURMTX  
@HWI-EAS443:3:11:1716:914#0/1  
GGTGTATATAGCACCTTGGGTGTCTGACAAGTTGTATTG  
+HWI-EAS443:3:11:1716:914#0/1  
ab¥baabaaa]``¥Z`\_a`W`UZ`^^Z`¥\_Z`¥¥]^]B  
@HWI-EAS443:3:11:183:206#0/1  
AATTTTGCTTCTGAGTATTTTGGGTAGTCATAAGTCC  
+HWI-EAS443:3:11:183:206#0/1  
aaaaaa`a`aaaaaaaaY\_``^`a`\_[\_a]^Z^\_\_\_W¥\_  
@HWI-EAS443:3:11:209:1685#0/1  
AAGATACAGCAAGAAGTTCAAGCCGAAATAGCAATAAGA  
+HWI-EAS443:3:11:209:1685#0/1  
¥^\_\_Vabb\_``ba`Y[FTbb`[`X^¥`aa^`[\_¥\_a\_`a  
@HWI-EAS443:3:11:252:227#0/1  
GGTGGACAGGGATGGTAGATGGATGGTACGGTTATCACCA  
+HWI-EAS443:3:11:252:227#0/1  
abXaa\_`¥¥¥\_¥\_\_\_UR^[¥\_\_V¥\_\_WYZ[\_SWWRORUUB  
@HWI-EAS443:3:11:254:272#0/1  
ATCATTGAAAGGTTTGGAGATATTTCCCAAGACAAGTTCA

+HWI-EAS443:3:11:254:272#0/1  
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@HWI-EAS443:3:11:260:1906#0/1  
TACGGTTATCACCATCAAAATGAGCAGGGGTCAGGATATG  
+HWI-EAS443:3:11:260:1906#0/1  
ab\_TZ]\_aaaba`a]`¥a`aWWYV¥VL[^]X\_`R¥`\_`W[  
@HWI-EAS443:3:11:270:1365#0/1  
GCTGGCTGGATCCTGGGAAATCCAGAGTGTGAATCACTCT  
+HWI-EAS443:3:11:270:1365#0/1  
aa`aab\_XZM[Qa`VW^]aZ^^VGP[ZY]S\_YaOSWZU¥Y  
@HWI-EAS443:3:11:304:1143#0/1  
AGAGGAAGCAAAATTAACAGAGAAGAAATAGATGGGGTA  
+HWI-EAS443:3:11:304:1143#0/1  
¥YIVT^UYa¥Y\_SH\_`¥`T`YZP]^`a\_T¥WX`YST^[V  
@HWI-EAS443:3:11:311:1397#0/1  
ATCAGAATGCAGATGCATATGTTTTGTGGGGACATCAAG  
+HWI-EAS443:3:11:311:1397#0/1  
`\_`bbaaaabaaa\_aaaaa^^¥`\_`a`\_a`¥G`¥a]¥]\_`  
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TTCGAATGTTATTTTGTCTCCCGCTCTACTAGTGTCCAG  
+HWI-EAS443:3:11:323:1535#0/1  
aab`a`bb\_[]`aaa\_¥\_\_`\_\_`\_`^W]\_]XZZYS¥ZZ]WW  
@HWI-EAS443:3:11:329:607#0/1  
AATTTACTTTGTTAGTAATCTCGTCAATGGCATTCTGTGT  
+HWI-EAS443:3:11:329:607#0/1  
Xbbbbabbbbbaabaaa`baaab`baa\_a\_aa\_aa`a`[U  
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+HWI-EAS443:3:11:362:1113#0/1  
`ba`Saaa^^^\_\_\_\_\_a^P\_`\_YPU¥[¥\_XXQ`\_WW¥¥W¥¥  
@HWI-EAS443:3:11:392:1030#0/1  
GAAGAACTTATATGAAAAGGTAAGAAGCCAGTAAAAAAC  
+HWI-EAS443:3:11:392:1030#0/1  
^¥W\_^`\_`aaV]^Z[Y\_a\_OZ\_]XY^a`V`aaULYGR`\_  
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AATCGATGAAATCTCCTGGGTAACACGTTCCATTGTCTGA  
+HWI-EAS443:3:11:440:1069#0/1  
aaaaa`\_\_`aa^\_\_`^`\_`X¥[\_`^\_]`^`\_`Z^^\_U  
@HWI-EAS443:3:11:440:668#0/1  
TAGGACCATGAGCTTGCTGTGGAGAGTGATTCACACTCTG  
+HWI-EAS443:3:11:440:668#0/1  
a`[ba^W\_a\_¥`V]baabbabbR]aaS`aa[U]`a\_]P]a  
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TGTGGGGACATCAAGATACAGCAAGAAGTTCAAGCCGGAA  
+HWI-EAS443:3:11:462:1866#0/1  
abXaabbW\_baabaaaabaaaabbaaaa`\_`aa^a[[]]\_\_  
@HWI-EAS443:3:11:472:749#0/1  
TCGTGGTAGTCCAAAGTTCTTTTCATTTTCCAATAGAACCA  
+HWI-EAS443:3:11:472:749#0/1  
^\_¥Ra`Y^^^0¥X\_YZ\_]\_`]V]^OW\_WU]aa`Y\_a\_\_I[a

@HWI-EAS443:3:11:524:34#0/1  
GTTACCCAGGAGATTTTCATCGATTATGAGGAGCTAAGAGA  
+HWI-EAS443:3:11:524:34#0/1  
a\_`a`\_\_\_a`a`^`^`]^`XZ`X^`Y`\_]`^XZRZZZZ^Z  
@HWI-EAS443:3:11:563:367#0/1  
GATGAAATCTCCTGGGTAACACGTTCCATTGTCTGAACTA  
+HWI-EAS443:3:11:563:367#0/1  
aaaaaa`aaa`\_`a\_\_^a`a^`\_`\_\_\_a^`^`\_]^^\_\_  
@HWI-EAS443:3:11:581:1820#0/1  
TGTGGGGACATCAAGATACAGCAAGAAGTTCAAGCCGGAA  
+HWI-EAS443:3:11:581:1820#0/1  
^]¥QUZ^abbaaaa]aaba\_\_baba`\_`^`Wb`\_]`\_YW`\_  
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CTGGCTGGATCCTGGGAAATCCAGAGTGTGAATCACTCTC  
+HWI-EAS443:3:11:584:298#0/1  
`baaababT]baU`a`\_`^W`[¥b`a^`^a`^`\_`aRX`^¥  
@HWI-EAS443:3:11:599:723#0/1  
CTTTTTTCCAGGTGGTTGAACTCTTTACCTACTGCTGTGA  
+HWI-EAS443:3:11:599:723#0/1  
aaa`a`^`^`[aaR`a^`[\_ZOY\_US¥[a]`ZXZ¥`UZVM^W  
@HWI-EAS443:3:11:610:1589#0/1  
ATAAGTCCCATTTTTGACACTTTCCATGCACGTGTATCG  
+HWI-EAS443:3:11:610:1589#0/1  
aaa\_aYab`ba`\_aaaaa`a`^`\_¥`\_\_\_\_`Z`^`¥`^]S]  
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CACTAGTAGAGCCGGGAGACAAAATAACATTCGAAGCAAC  
+HWI-EAS443:3:11:611:1710#0/1  
a`a^WawTW][Wa\_[[N]Ub]H]]`^Za[\_XNX\_PYV`aU  
@HWI-EAS443:3:11:646:1217#0/1  
TTCCAATTGTGATCGGATGTATATTCTGAAATGGGAGGCT  
+HWI-EAS443:3:11:646:1217#0/1  
aX\_[Ta\_baa`\_Waaa\_RYNUZP]]NXTG`\_]QU]\_YBBB  
@HWI-EAS443:3:11:652:1538#0/1  
TGGAAAGTGTCAAAAATGGGACTTATGACTACCCAAAATA  
+HWI-EAS443:3:11:652:1538#0/1  
aba^]`\_¥`\_ba`ba\_aa`aaa`\_`aaaa`a`W\_X`\_`\_\_\_\_`  
@HWI-EAS443:3:11:665:1702#0/1  
CTTTGTTAGTAATCTCGTCAATGGCATTCTGTGTGCTCTT  
+HWI-EAS443:3:11:665:1702#0/1  
abbbb[bbb\_bbaaaaa\_a¥[^`a`aa^Y`aaWS\_aa`a`  
@HWI-EAS443:3:11:676:987#0/1  
AATCGATGAAATCTCCTGGGTAACACGTTCCATTGTCTGA  
+HWI-EAS443:3:11:676:987#0/1  
^`\_Za\_\_\_\_`\_]`\_`^`\_¥`\_]V[¥`\_`[`Z]Y\_[[\_TU[[\_[  
@HWI-EAS443:3:11:730:1435#0/1  
AAGAACTTTGGACTACCACGATTCAAATGTGAAGAACTTA  
+HWI-EAS443:3:11:730:1435#0/1  
¥`\_`XZ`a`^T`^`\_]aN^aa`\_`\_¥`\_P`\_]`^X[^`\_¥`\_  
@HWI-EAS443:3:11:758:1558#0/1  
CTTCCTCTGAGTATTTTTGGGTAGTCATAAGTCCCATTTTT

+HWI-EAS443:3:11:758:1558#0/1  
ab\_abba\_b`UX\_`a]baab\_aa` ``ba\_a`\_Y]aaaaa`  
@HWI-EAS443:3:11:788:273#0/1  
GCCAGTCTCAATTTTGTGCTTTTTACATATTTTGGACATT  
+HWI-EAS443:3:11:788:273#0/1  
`aaaa\_`aa` `aaa`a^a^a`aaa`\_\_`^a\_a^\_^]V^\_^  
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CAATGGCATTCTGTGTGCTCTTCAGGTCGGCTGCATATCC  
+HWI-EAS443:3:11:800:114#0/1  
aZW\_`bbbbbbbb]b`abb`ba`bWa\_ab`]aaZXX`]¥X  
@HWI-EAS443:3:11:806:755#0/1  
CTAGTTCAGACAATGGAACGTGTTACCCAGGAGATTTTCAT  
+HWI-EAS443:3:11:806:755#0/1  
\_Ybbaa\_SV`]`\_Z]]`P]WaX`YW`]`a¥aaV`YS`Y\_[]`  
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TTCAATGAAACCGCAATGGCCCCAAATAGGCCTCTAGAT  
+HWI-EAS443:3:11:826:1412#0/1  
V¥\_Z\_]`HX\_b\_]`^`Ta`]`\_`aa\_]`a[YUXPYY` [JV  
@HWI-EAS443:3:11:856:1177#0/1  
ATTTGAAAGTTTGAGATATTTCCCAAGACAAGTTCATGG  
+HWI-EAS443:3:11:856:1177#0/1  
aV\_]`]]S`b[\_aaaaaa[a\_`^[]`\_a\_TYT\_]`^XXZ^S  
@HWI-EAS443:3:11:861:702#0/1  
ATTTTGTCTCCCGCTCTACTAGTGTCCAGTAATAGTTCA  
+HWI-EAS443:3:11:861:702#0/1  
``bb`¥UZ¥¥`ZH¥]aWa`aa\_`P¥`ZHW^WM¥\_RXQXXY  
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GGGATGGTAGATGGATGGTACGGTTATCACCATCAAAATG  
+HWI-EAS443:3:11:924:737#0/1  
aaa]abaT`a`^`U`aa^` `a`¥a¥¥SVTN¥^XZ[] [UV  
@HWI-EAS443:3:11:928:455#0/1  
AGAACTTATATGAAAAGGTAAGAAGCCAGTTAAAAAACAA  
+HWI-EAS443:3:11:928:455#0/1  
```a`^`SWZ`ZG]\_aaaVa¥^]a`U\_aa`^a\_` ``\_¥`^  
@HWI-EAS443:3:11:931:1652#0/1
TGGGGACATCAAGATACAGCAAGAAGTTCAAGCCGGAAAT
+HWI-EAS443:3:11:931:1652#0/1
abaaa`aaaa`aUb¥a^aa_`aaa_`Z`_a_^[]`_W_[]`
@HWI-EAS443:3:11:994:544#0/1
CGGGAGACAAAATAACATTCGAAGCAACTGGAAATCTAGT
+HWI-EAS443:3:11:994:544#0/1
abbbabaabaaaaba_abbaa_ab]aa_aaa` ``a`a`a]
@HWI-EAS443:3:12:100:117#0/1
GCAAGAAGTTCAAGCCGAAATAGCAATAAGACCCAAAGT
+HWI-EAS443:3:12:100:117#0/1
a` `ba¥^bW^aba__Za]^`a_`__`^` ` `_]Z_Z^_0
@HWI-EAS443:3:12:1073:859#0/1
TCTGAGTATTTTGGGTAGTCATAAGTCCCATTTTGGACAC
+HWI-EAS443:3:12:1073:859#0/1
ZZaaZ¥UXY__Z`^]J`]¥SSY[R_XZ¥`^aZ``^]TU¥M

@HWI-EAS443:3:12:1076:1548#0/1
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+HWI-EAS443:3:12:1076:1548#0/1
aaaaa`aa_aaa_^_aaa`b^`_`a^a^a`a^]a_`^`¥a
@HWI-EAS443:3:12:1121:79#0/1
GCTGGCTGGATCCTGGGAAATCCAGAGTGTGAATCACTCT
+HWI-EAS443:3:12:1121:79#0/1
a_aba__bb[____`_]a^___VZ^`U_S[V^¥U[VWQ¥WB
@HWI-EAS443:3:12:1153:485#0/1
GAGACTACCAGTACCAATGAACTGGCGACAGTTGAATAGA
+HWI-EAS443:3:12:1153:485#0/1
abbaabb`aab_aa__ba`aa`aa`^`]S`a]_`_]a_`^`
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CCCGGCTCTACTAGTGTCCAGTAATAGTTCATTCTCCCTT
+HWI-EAS443:3:12:1157:1582#0/1
aaabbaaa_aa`aa_`aaaa_aaa_`]aTaaa_a^`¥aa
@HWI-EAS443:3:12:1208:1644#0/1
GGGACATCAAGATACAGCAAGAAGTTCAAGCCGAAATAG
+HWI-EAS443:3:12:1208:1644#0/1
`b^Y_bbaS^S]XOVaIZa__SIUS]_]WHR`_Y^`^PXU
@HWI-EAS443:3:12:1209:879#0/1
GGGGACATCAAGATACAGCAAGAAGTTCAAGCCGAAATA
+HWI-EAS443:3:12:1209:879#0/1
a_T[``_`b_a`]U]^`NTaaaa_]aS^`a]]OGa`WI^¥]
@HWI-EAS443:3:12:1287:1728#0/1
GAAGTCCTCGTGTCTATGGGGCATTACCATCCATCTACTA
+HWI-EAS443:3:12:1287:1728#0/1
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ATGTAACATTGCTGGCTGGATCCTGGGAAATCCAGAGTGT
+HWI-EAS443:3:12:1331:725#0/1
^]]]aa_]`aba]¥^^]a`XV¥_ZZ[^`^`_]_]_`_W`V
@HWI-EAS443:3:12:1366:990#0/1
GATAACCGTACCATCCATCTACCATCCCTGTCCACCCCC
+HWI-EAS443:3:12:1366:990#0/1
Wba`a`aaaa¥U¥_]a]TU[``_`^T__YKV¥¥RKNS^
@HWI-EAS443:3:12:1403:644#0/1
CGATGAAATCTCCTGGGTAACACGTTCCATTGTCTGAACT
+HWI-EAS443:3:12:1403:644#0/1
¥_bbbbbbba`aa_`bb_aababababbaa`_baaab`^Z`
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GAAATCCAGAGTGTGAATCACTCTCCACAGCAAGCTCATG
+HWI-EAS443:3:12:1409:1544#0/1
a`aaa`aaa`^U`_a`a____`^a][[]ZaN¥_]UURBB
@HWI-EAS443:3:12:1461:251#0/1
ACTAGTAGATGGATGGTGAATGCCCCATAGCACGAGGACT
+HWI-EAS443:3:12:1461:251#0/1
`bbaa¥ababbbbaaaUab`ba_]^_a^aVSR]_`_`[T¥
@HWI-EAS443:3:12:1563:193#0/1
GCTCAGCAAATCCTACATTAATGATAAAGGGAAAGAAGTC

+HWI-EAS443:3:12:1563:193#0/1
aaa^`_a_a`]S^]X^aa^^aa_`Z^_]¥Z_`^^^BB
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AAATGAGCAGGGGTCAGGATATGCAGCCGACCTGAAGAGC
+HWI-EAS443:3:12:1649:610#0/1
aa`_`abaa`^`aZY_baS_`_`[_`SQ^WRR¥^^Z_[-¥
@HWI-EAS443:3:12:1746:740#0/1
TGGAAACGGCTGCTTTGAATTTTACCACAAATGCGATAAC
+HWI-EAS443:3:12:1746:740#0/1
ab`Iab`bb`b_0¥`^S````aaZS¥_P]^_PTRWBBBBB
@HWI-EAS443:3:12:179:1121#0/1
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+HWI-EAS443:3:12:179:1121#0/1
abb_]aUZQX^W]YT_]b_¥]a_`S¥ZX`a_`a]_Y¥a^]
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GCTGGCTGGATCCTGGGAAATCCAGAGTGTGAATCACTCT
+HWI-EAS443:3:12:198:764#0/1
Q`Q¥RXR__QWZWPZ^_XV]Z_b¥_OXZ¥GIO`XX``¥aB
@HWI-EAS443:3:12:219:820#0/1
GGTCAGCACTAGTAGATGGATGGTGAATGCCCATAGCAC
+HWI-EAS443:3:12:219:820#0/1
abUb`^`_ab`b]`]`abaaaaa^a`X`a_`_aaaa^`a^
@HWI-EAS443:3:12:236:704#0/1
CATATCCTGACCCCTGCTCATTGATGGTGATAACCGTA
+HWI-EAS443:3:12:236:704#0/1
a`]a`_]K]_`]WGYTV_a]_X]_VU[`VNYM^___TRLU
@HWI-EAS443:3:12:268:183#0/1
GGGAGGCTGGTGTATAGCACCCCTGGGTGTCTGACAAG
+HWI-EAS443:3:12:268:183#0/1
abb¥aaaaab^_a_aaaaaa`_a^a¥a_`Q`W____]¥^¥¥
@HWI-EAS443:3:12:279:1375#0/1
CACGATTCAAATGTGAAGAACTTATATGAAAAGGTAAGAA
+HWI-EAS443:3:12:279:1375#0/1
XabbX`baabb^^`_a¥`^a`_abbbba_aa¥Y]aa`bb
@HWI-EAS443:3:12:302:1137#0/1
AAAAGCACAAAATTGAGACTGGCCACAGGATTGAGGAATG
+HWI-EAS443:3:12:302:1137#0/1
_Ua_X`Za`¥aaaa`a¥aa__[a``¥R[]Y^YUVO¥P¥^B
@HWI-EAS443:3:12:32:121#0/1
GGGGTGGACAGGGATGGTAGATGGATGGTACGGTTATCAC
+HWI-EAS443:3:12:32:121#0/1
`_baQa]^ [SY`aWZaaQ_X¥W_ZWU^^R[¥Y_QTUVUBB
@HWI-EAS443:3:12:330:375#0/1
GCACGTGTTATCGCATTTGTGGTAAAATTCAAAGCAGCCG
+HWI-EAS443:3:12:330:375#0/1
¥bbbaPYa]a```aa]`_]`P]^R`aa_a[Taa`_b`a]S[
@HWI-EAS443:3:12:350:1623#0/1
CCTGGGAAATCCAGAGTGTGAATCACTCTCCACAGCAAGC
+HWI-EAS443:3:12:350:1623#0/1
abbaaZ^`W_^^aaaRR_U¥^WVbRJY`[^]R]ZaaWBB

@HWI-EAS443:3:12:384:1051#0/1
GCTCCTCATAATCGATGAAATCTCCTGGGTAACACGTTCC
+HWI-EAS443:3:12:384:1051#0/1
ab[X]Y]M¥N^X[__aVOXa_Y_[aVa]XU_R[_¥^][_R
@HWI-EAS443:3:12:424:1764#0/1
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+HWI-EAS443:3:12:424:1764#0/1
a^bba]abbaa`aaa_a`aaaaabTaa^aaa`_a_aaaa_
@HWI-EAS443:3:12:469:63#0/1
GGATCCTGGGAAATCCAGAGTGTGAATCACTCTCCACAGC
+HWI-EAS443:3:12:469:63#0/1
ab¥_abaa`_a`aa]Xaaa`[`Z`Z^`Z^¥_¥_^U^S^_T
@HWI-EAS443:3:12:499:556#0/1
AGCCAGTTAAAAACAATGCCAAGGAAATTGGAAACGGCT
+HWI-EAS443:3:12:499:556#0/1
aa_a`a`_`_`^]__a`_`__Ya_Z^¥_^^_Z^]Z^^¥Z
@HWI-EAS443:3:12:515:1630#0/1
GCTGCTTTGAATTTTACCACAAATGCGATAACACGTGCAT
+HWI-EAS443:3:12:515:1630#0/1
a`][a]__[`_`^]W]^¥_]¥]^¥]^¥X^^Z^^^0^X^G
@HWI-EAS443:3:12:580:1431#0/1
GATGACACTGAGCTCAATTGCTCTTAGCTCCTCATAAT
+HWI-EAS443:3:12:580:1431#0/1
`^bbbbbb`bb_abbbbbbbbaabbbbbbbba[^bbaaaa
@HWI-EAS443:3:12:59:888#0/1
GTTGCTTCGAATGTTATTTTGTCTCCCGGCTCTACTAGTG
+HWI-EAS443:3:12:59:888#0/1
a_a_aa`_a`[aa]a`_a`_]_^a`_]ZX_]][XXZX_
@HWI-EAS443:3:12:600:1137#0/1
GGGGACATCAAGATACAGCAAGAAGTTCAAGCCGAAATA
+HWI-EAS443:3:12:600:1137#0/1
¥`__¥a_Za¥S[Q^^aaaa`b`WQ_UXab[aZZ`]S¥¥`_
@HWI-EAS443:3:12:64:667#0/1
CACGATTCAAATGTGAAGAACTTATATGAAAAGGTAAGAA
+HWI-EAS443:3:12:64:667#0/1
`^`aaaaaaa`a^Xa_aa^[`a_aa``aaaXP``X[[_a]
@HWI-EAS443:3:12:659:1741#0/1
GGAAACCATCATCAACTTTTTTATTTAAATTCTCTATTCT
+HWI-EAS443:3:12:659:1741#0/1
abaaaaaaabaaaaZaabaaaa_baba`_b`_aaaaaa]a
@HWI-EAS443:3:12:671:1147#0/1
AATCATGACTCGAACAAAGGTGTAACGGCAGCATGTCCTC
+HWI-EAS443:3:12:671:1147#0/1
HQ_X`b`^`^abb^]O_RR^aP_N¥ZGUSHBBBBBBBBBB
@HWI-EAS443:3:12:735:1506#0/1
GGAAATTGGAAACGGCTGCTTTGAATTTTACCACAAATGC
+HWI-EAS443:3:12:735:1506#0/1
YYXZaVaaab`_bb_ba`QGU_OUJFVQ]YUW^`W]a[``
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+HWI-EAS443:3:12:748:1575#0/1
abaaa`aa`a[``a`a_a^^a`¥`_^_][¥Z_`XYS[
@HWI-EAS443:3:12:74:1495#0/1
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+HWI-EAS443:3:12:74:1495#0/1
a`aIV^YY`〕`¥aa[_aadW]_`[¥PZ^_a]GLXSLOST
@HWI-EAS443:3:12:812:1724#0/1
GGCATTACCATCCATCTACTAGTGCTGACCAACAAAGTC
+HWI-EAS443:3:12:812:1724#0/1
abbbabbbabb_[baabaabaa_[bbaa`aaababbX^
@HWI-EAS443:3:12:845:525#0/1
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+HWI-EAS443:3:12:845:525#0/1
abbaabaaa_a`aa`_aaaaa_a`a`_`__aa^`V^_a
@HWI-EAS443:3:12:872:969#0/1
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+HWI-EAS443:3:12:872:969#0/1
abb`abbabaaaab^Zba^ababbbaabbb`baaa`_a`b
@HWI-EAS443:3:12:874:1451#0/1
TGTCTGACAAGTTGTATTGCAATCGTGGACTGGTGTATCT
+HWI-EAS443:3:12:874:1451#0/1
Y_Z^¥^_bVb`〕`^__¥b`bbbba`bab`aa`_aaabaa
@HWI-EAS443:3:12:877:1493#0/1
GCTGCTTTGAATTTTACCACAAATGCGATAACACGTGCAT
+HWI-EAS443:3:12:877:1493#0/1
aa^]]WHZR〕`〕a`a^_a`ZZ¥〕`¥[¥Z`__a¥^¥¥^¥Z
@HWI-EAS443:3:12:883:1769#0/1
GAGCTCAATTGCTCTTTAGCTCCTCATAATCGATGAAAT
+HWI-EAS443:3:12:883:1769#0/1
¥`^`JU¥`YY`¥`^YW__YY_[YPVG``¥Za^_¥ZBBBBB
@HWI-EAS443:3:12:892:1253#0/1
TGATTGGCCATGAACCTGTCTTGGGGAATATCTCAAACC
+HWI-EAS443:3:12:892:1253#0/1
]b`bbbab`abbab]bba`aabaaa¥]`_a``aaaa]_
@HWI-EAS443:3:12:935:224#0/1
GTGTATTCATCTTTTCAATAACAGAATTTACTTTGTTAGT
+HWI-EAS443:3:12:935:224#0/1
¥Z^_Z]YY__aabb`¥Z¥]^L0Sa_a^]_SZ__¥Z¥W]Y
@HWI-EAS443:3:12:983:1772#0/1
ACATTTTCCAATTGTGATCGGATGTATATTCTGAAATGGG
+HWI-EAS443:3:12:983:1772#0/1
abbaaa_aa`aaa`WaVaaa¥X¥aS^_a_Za[RR^]YBB
@HWI-EAS443:3:13:1018:99#0/1
GCAGGGGTCAGGATATGCAGCCGACCTGAAGAGCACACAG
+HWI-EAS443:3:13:1018:99#0/1
a¥a_MM_VLQ`_ZaZ_VZ^ZUX^RS〕`^LMRM^YVWQKZ^
@HWI-EAS443:3:13:1170:1510#0/1
GAAAAGGTAAGAAGCCAGTTAAAAACAATGCCAAGGAAA
+HWI-EAS443:3:13:1170:1510#0/1
Y]SY^¥Y`_^b_aLWQUBTa[aaaVaa_a_[XF^_a_a[

@HWI-EAS443:3:13:1184:294#0/1
GGGGACATCAAGATACAGCAAGAAGTTCAAGCCGGAAATA
+HWI-EAS443:3:13:1184:294#0/1
R¥a^[\`ZZ`¥^a`_¥X`^`ab_Yb_¥Y]_^PZab``aaa
@HWI-EAS443:3:13:1196:1490#0/1
ATCAAGATACAGCAAGAAGTTCAAGCCGGAAATAGCAATA
+HWI-EAS443:3:13:1196:1490#0/1
aaaa^ba`a^aaaabaa_a0`_a`__a__`aa`a_¥`_`
@HWI-EAS443:3:13:1285:1607#0/1
TCCTCTGAGTATTTTGGGTAGTCATAAGTCCCATTTTTGA
+HWI-EAS443:3:13:1285:1607#0/1
^MZ`_a`SOKXa_[^]W_H^aNR___^XS_WXZ_^`_`_X
@HWI-EAS443:3:13:1293:1843#0/1
AATCACTCTCCACAGCAAGCTCATGGTCCTACATTGTGGA
+HWI-EAS443:3:13:1293:1843#0/1
aaa[ar^__a_aYaa]___Z]¥^^^`^]VX^^Z]ZU^ZXXZ
@HWI-EAS443:3:13:1357:697#0/1
CCCATTTTTGACACTTCCATGCACGTGTTATCGCATTTG
+HWI-EAS443:3:13:1357:697#0/1
abbbbaababbbab`a````b`abaY`^a_aba_b`_aaaa
@HWI-EAS443:3:13:1417:355#0/1
CTTTGTTAGTAATCTCGTCAATGGCATTCTGTGTGCTCTT
+HWI-EAS443:3:13:1417:355#0/1
abbbbaaabaab`b`baaaa`aa^aba_ba`a^a]`_a`
@HWI-EAS443:3:13:1434:1013#0/1
GATGGATGGTACGGTATCACCATCAAATGAGCAGGGGT
+HWI-EAS443:3:13:1434:1013#0/1
^_]a`_¥XZwa`_^T]`_TPZZPUHX`a]X]STEV¥Y`YJ
@HWI-EAS443:3:13:1444:1206#0/1
GGTGGACAGGGATGGTAGATGGATGGTACGGTTATCACCA
+HWI-EAS443:3:13:1444:1206#0/1
aa]aa`__`a`__`X__^Y__]X]ZY`]`U^][V[RXX
@HWI-EAS443:3:13:1469:595#0/1
GCTTTACCCCATCTATTTCTTCTCTGTTTAATTTTGCTTC
+HWI-EAS443:3:13:1469:595#0/1
aaaaa_TR[\`_aY`_aaaZaa]a_aa_aa`_a`_a`X`_Z
@HWI-EAS443:3:13:1472:1732#0/1
GCTGGCTGGATCCTGGGAAATCCAGAGTGTGAATCACTCT
+HWI-EAS443:3:13:1472:1732#0/1
aabaaaa¥a_aa^aaaaaaaa^_aa`¥aS^a``V`S`_]`
@HWI-EAS443:3:13:1486:1448#0/1
CAGGGATGGTAGATGGATGGTACGGTATCACCATCAAAA
+HWI-EAS443:3:13:1486:1448#0/1
`Q¥QR¥`¥WW[¥ZGQW¥aaYK_U`_¥¥VZ^PKK¥[Z[_`K
@HWI-EAS443:3:13:1589:1223#0/1
GGGGACATCAAGATACAGCAAGAAGTTCAAGCCGGAAATA
+HWI-EAS443:3:13:1589:1223#0/1
_bbbaaaaaab`ba_bb]aaaa_aV_]b`a[Ra^^^`__
@HWI-EAS443:3:13:1610:641#0/1
ATCGATTATGAGGAGCTAAGAGAGCAATTGAGCTCAGTGT

+HWI-EAS443:3:13:1610:641#0/1
aa`aab^bbaab^`¥¥aaa`_aWa`X]aZ`[S[_aQ]V
@HWI-EAS443:3:13:1620:1117#0/1
ATTTACTTTGTTAGTAATCTCGTCAATGGCATTCTGTGTG
+HWI-EAS443:3:13:1620:1117#0/1
abbaa^aab`aaa`_a^a^a`_`_a`_`_a`_a`_a`_`_`
@HWI-EAS443:3:13:1660:164#0/1
GACTACCAGTACCAATGAACTGGCGACAGTTGAATAGATC
+HWI-EAS443:3:13:1660:164#0/1
ababaabab¥a`_aabaaa`a][`_`^^^`_Z¥^`_`XR
@HWI-EAS443:3:13:1685:825#0/1
CTCCCGGCTCTACTAGTGTCCAGTAATAGTTCATTCTCCC
+HWI-EAS443:3:13:1685:825#0/1
Y`^VI^¥M`_]b_v_¥XU`^S^`[_aZ]¥[^GW¥^MSLGR
@HWI-EAS443:3:13:1693:630#0/1
CACATCCAGAACTGATTGCCCCAGGGAGACTACCAGTA
+HWI-EAS443:3:13:1693:630#0/1
V[_`a_bbabbbbabbaa`_`[[bb`b`_`_`^^^a^ab_a
@HWI-EAS443:3:13:1696:630#0/1
CAGTTAAAAACAATGCCAAGGAAATTGGAAACGGCTGCT
+HWI-EAS443:3:13:1696:630#0/1
[Yababa_aaaaa`aa]_]aba_¥`ba_a`_`^aa[ZXJQ
@HWI-EAS443:3:13:1722:254#0/1
GGGACATCAAGATACAGCAAGAAGTTCAAGCCGGAAATAG
+HWI-EAS443:3:13:1722:254#0/1
]aaUN`_V`[_`_]R_aa`a`a]aX`_`^YaZZ`_ZXX]]^
@HWI-EAS443:3:13:1736:1135#0/1
CCTCTGAGTATTTTGGGTAGTCATAAGTCCCATTTTGTGAC
+HWI-EAS443:3:13:1736:1135#0/1
a_a`[¥a^aab`^a]aaZaa_W]a`_`^¥`_]`_`_aYNTS
@HWI-EAS443:3:13:194:698#0/1
GGGCCATGAACTTGTCTTGGGAATATCTCAAACCTTTCA
+HWI-EAS443:3:13:194:698#0/1
[aKabbbb`b`a`baabbbabaaY_baa_ab^baa]aaab
@HWI-EAS443:3:13:196:153#0/1
GGGAGGCTGGTGTATAGCACCTTGGGTGTCTGACAAG
+HWI-EAS443:3:13:196:153#0/1
aababbbabb]b[a`aa`aaa`_`_`^a`_`[LV^`_`[^¥`_`_`
@HWI-EAS443:3:13:254:503#0/1
GAAGCTTTTTGCTCCAGCATGAGGACATGCTGCCGTTACA
+HWI-EAS443:3:13:254:503#0/1
aa[aaaba`a`¥[]_aaa]_`_`a`_`[^a^`_`_`^`_`¥YWTTQY¥
@HWI-EAS443:3:13:339:1113#0/1
CCCGGCTCTACTAGTGTCCAGTAATAGTTCATTCTCCCTT
+HWI-EAS443:3:13:339:1113#0/1
aaa^aa`[^[XPYNG[]_a`_`R`_]_YU^Z`_`UUU`_`UZ
@HWI-EAS443:3:13:34:1015#0/1
CGGTTTCATTGAAGGGGGTGGACAGGGATGGTAGATGGA
+HWI-EAS443:3:13:34:1015#0/1
abbZaabaab^]aa_aa_¥a`¥`_`_`aaa^`_`_`V`_`^Wa]]

@HWI-EAS443:3:13:371:362#0/1
GGCTGGTGTATAGCACCTTGGGTGTCTGACAAGTTGT
+HWI-EAS443:3:13:371:362#0/1
__bab`Z`^bbbabba]`]baaab_a^_aba]abb¥XaX
@HWI-EAS443:3:13:404:619#0/1
CATATGTTTTGTGGGACATCAAGATACAGCAAGAAGTT
+HWI-EAS443:3:13:404:619#0/1
aa___baaabaa^b`]`aaaaaaaa`aaaa`aba``^TX
@HWI-EAS443:3:13:46:1336#0/1
GCTATGGGCATTACCATCCATCTACTAGTGCTGACCAA
+HWI-EAS443:3:13:46:1336#0/1
a_`¥_V[^^^Y¥^``^a___`]_]`^^_^T_¥^VWZ^^
@HWI-EAS443:3:13:474:1850#0/1
AATTTTGCTTCTCTGAGTATTTTGGGTAGTCATAAGTCC
+HWI-EAS443:3:13:474:1850#0/1
aa`aaa_a`a`[_aaY``]^``^_W`¥Z^_`^`^WZ`
@HWI-EAS443:3:13:483:430#0/1
AGCCAGTTAAAAACAATGCCAAGGAAATTGGAAACGGCT
+HWI-EAS443:3:13:483:430#0/1
aaaabb`abaaaa`aaaa_a^_a_a_aaa___`]a_¥^
@HWI-EAS443:3:13:633:1184#0/1
TCCGGCTTGAACCTTCTGCTGTATCTTGATGTCCCCACAA
+HWI-EAS443:3:13:633:1184#0/1
`Zaaa]]ZY^ZV_WRS[ZP]`V_¥YW]UFQ`VRKV^_]UY
@HWI-EAS443:3:13:667:954#0/1
ATTGCATTTGGGTAAATGTAACATTGCTGGCTGGATCCTG
+HWI-EAS443:3:13:667:954#0/1
aaab_aaa___`_Xbaaa`]_a_`a___`a_]¥`a^_¥¥^
@HWI-EAS443:3:13:675:480#0/1
AAAGAAGTCCTCGTGCTATGGGCATTACCATCCATCTA
+HWI-EAS443:3:13:675:480#0/1
a[Y`¥a`HYQ^^`PYG[XZaUUOT__^__Z[XRYN[_Y]_
@HWI-EAS443:3:13:678:1072#0/1
ATACTCAGAGGAAGCAAAATTAACAGAGAAGAAATAGAT
+HWI-EAS443:3:13:678:1072#0/1
aa¥_^___`aaa^aa`]^`]aa_`a___`^__a_`U_`Za^_
@HWI-EAS443:3:13:682:2044#0/1
GGGACATCAAGATACAGCAAGAAGTTCAAGCCGGAATA
+HWI-EAS443:3:13:682:2044#0/1
aXXa`[aVaa¥aW_aS[^a_]W^]]O¥P`_]YN]_]_^[W
@HWI-EAS443:3:13:695:1166#0/1
TCTTTACCTACTGCTGTGAAGTGTATTTCATCTTTCAA
+HWI-EAS443:3:13:695:1166#0/1
^``__b`]a`a_`^`aY^baaUaaX[]__`_aa]a`a_]`^
@HWI-EAS443:3:13:703:159#0/1
CTGAAGAGCACACAGAATGCCATTGACGAGATTACTAACA
+HWI-EAS443:3:13:703:159#0/1
X`_I^abbabbbb^ba`bbaa]bababaaa_aaaa^a^`
@HWI-EAS443:3:13:765:277#0/1
CAGGTCGGCTGCATATCCTGACCCCTGCTCATTTTGATGG

+HWI-EAS443:3:13:765:277#0/1
aaTHH]XaKZ[UT]_P[aa`_]LLQUJVQGTQZPM[Q[B
@HWI-EAS443:3:13:783:780#0/1
ATTGCTGGCTGGATCCTGGGAAATCCAGAGTGTGAATCAC
+HWI-EAS443:3:13:783:780#0/1
^V_^_Z[___Z]___]_W_X`ZZ^`^^]^X`RZZb`^aX`^
@HWI-EAS443:3:13:785:580#0/1
CTTAGCTCCTCATAATCGATGAAATCTCCTGGGTAACACG
+HWI-EAS443:3:13:785:580#0/1
_bbabaa_bbb``abaabaabaab`aa`a`aa`¥`^_a`_
@HWI-EAS443:3:13:799:666#0/1
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+HWI-EAS443:3:13:799:666#0/1
a`babaaababaaaa_aaaa`a¥`__``¥a```aZ___V^
@HWI-EAS443:3:13:803:547#0/1
GTGGGGACATCAAGATACAGCAAGAAGTTCAAGCCGGAAA
+HWI-EAS443:3:13:803:547#0/1
`W_^a]^`aa^^`a^`a_aaaaa``a]``a_`__a_]_`
@HWI-EAS443:3:13:816:1235#0/1
AATCGATGAAATCTCCTGGGTAACACGTTCCATTGTCTGA
+HWI-EAS443:3:13:816:1235#0/1
YS]a¥a^_UZZVP`ZT[ZUS¥Sa`X]`]IaHX[XTTU^aB
@HWI-EAS443:3:13:864:332#0/1
CTATTTCTTCTCTGTTTAATTTTGCTTCCTCTGAGTATTT
+HWI-EAS443:3:13:864:332#0/1
aa_abbabaa]_P]^a]¥__a``aZa_^_aW_``^W^`¥Z
@HWI-EAS443:3:13:872:575#0/1
ATCCTGACCCCTGCTCATTTTGATGGTGATAACCGTACCA
+HWI-EAS443:3:13:872:575#0/1
aYYPN_Y^_ZWWQ]R]Y^_U¥URYXUIMXRYXTHXXRBBB
@HWI-EAS443:3:13:893:1380#0/1
GGGGACATCAAGATACAGCAAGAAGTTCAAGCCGGAAATA
+HWI-EAS443:3:13:893:1380#0/1
aa```aa`baa`a^a`a`aaaaY^W^aa`_U]Z^``````
@HWI-EAS443:3:13:903:404#0/1
TGCTGTATCTTGATGTCCCCACAAAACATATGCATCTGC
+HWI-EAS443:3:13:903:404#0/1
[WQRUW_SQab^J`a[aa`PZaWYaaa_WS¥¥]`_¥0[YM
@HWI-EAS443:3:14:1006:1871#0/1
TGTGGGGACATCAAGATACAGCAAGAAGTTCAAGCCGGAA
+HWI-EAS443:3:14:1006:1871#0/1
a[a]a^]aaa`aa`^_Y`Y]aba¥W]XZ[a__¥U__^^
@HWI-EAS443:3:14:1090:698#0/1
GGACAGGGATGGTAGATGGATGGTACGGTTATCACCATCA
+HWI-EAS443:3:14:1090:698#0/1
a`X`aaa__abaMV`_^_a`a]U^^`_[^_S¥¥UZZWU
@HWI-EAS443:3:14:1106:1167#0/1
CGATTATGAGGAGCTAAGAGAGCAATTGAGCTCAGTGTCA
+HWI-EAS443:3:14:1106:1167#0/1
ab`aaR`bbb_____ba`aabaa`a_a_^^`¥a_aaYa¥U¥

@HWI-EAS443:3:14:1115:789#0/1
ACATATTCTACTGTAGAGACCCATTAGAGCACATCCAG
+HWI-EAS443:3:14:1115:789#0/1
aaaa_aaabaaaaaa^aa`_^`_^`__`_]`^`__`_^]_a
@HWI-EAS443:3:14:1126:713#0/1
GGGGACATCAAGATACAGCAAGAAGTTCAAGCCGGAAATA
+HWI-EAS443:3:14:1126:713#0/1
aaL[NU]V#a^S[[bY^b]¥[b_Y_____ [aX]]UGXG]a_
@HWI-EAS443:3:14:1162:105#0/1
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+HWI-EAS443:3:14:1162:105#0/1
aabaaaababb__Za`a`^a^¥aV^_`a`¥_ZKRYUVZZX
@HWI-EAS443:3:14:1179:1064#0/1
GTGCTCTTCAGGTCGGCTGCATATCCTGACCCCTGCTCAT
+HWI-EAS443:3:14:1179:1064#0/1
aZT_[T]` `WNTXRVR]P]`X`YKSRRXKPWSRUU[¥WV
@HWI-EAS443:3:14:1202:623#0/1
AATTTACTTTGTTAGTAATCTCGTCAATGGCATTCTGTGT
+HWI-EAS443:3:14:1202:623#0/1
aaabbaabbab`aab`aaa`a`b__aa`aa_aa__`a_a]
@HWI-EAS443:3:14:1334:813#0/1
ATGGCATTCTGTGTGCTCTTCAGGTCGGCTGCATATCCTG
+HWI-EAS443:3:14:1334:813#0/1
^`X¥¥¥¥][UZPWKV` `Z_^_¥^]RU[[^__SUNVZUSUB
@HWI-EAS443:3:14:1336:750#0/1
ACTTCTTGCTGTATCTTGATGTCCCCACAAAAACATATGC
+HWI-EAS443:3:14:1336:750#0/1
aab_X_V¥^abZa^__]_V`a_`[G]a]_` `^a[a__U^Z
@HWI-EAS443:3:14:1343:513#0/1
GCTGGATCCTGGGAAATCCAGAGTGTGAATCACTCTCCAC
+HWI-EAS443:3:14:1343:513#0/1
a` `a_¥_^]^[____^_X`aUZ[_¥a^¥¥S_W¥¥^W¥¥W
@HWI-EAS443:3:14:1370:525#0/1
TGACACTTTCCATGCACGTGTTATCGCATTGTGGTAAAA
+HWI-EAS443:3:14:1370:525#0/1
aY`^`^`a`_]Z]_ZYa]a0`^aaa_aa_aaa^T_]Z_a_]`
@HWI-EAS443:3:14:1419:1376#0/1
GCTATGGGGCATTACCATCCATCTACTAGTGCTGACCAA
+HWI-EAS443:3:14:1419:1376#0/1
^`^WI]_YbYYW[aP¥]__U^Y`_a[H` `YVJYaY`a]TU
@HWI-EAS443:3:14:141:1535#0/1
ATTTTGATGGTGATAACCGTACCATCCATCTACCATCCCT
+HWI-EAS443:3:14:141:1535#0/1
aaa`a` `X[a[[_¥__¥^_¥WQWY¥Y^_¥_¥¥¥XW^_UW^
@HWI-EAS443:3:14:1450:683#0/1
TACTGGACACTAGTAGAGCCGGGAGACAAAATAACATTCG
+HWI-EAS443:3:14:1450:683#0/1
^`X¥`ZZ¥aY^Q`]¥^]T[I¥_ZT^JORLY^` `SW¥V_[b
@HWI-EAS443:3:14:1464:1518#0/1
ACTGTAGAGACCCATTAGAGCACATCCAGAAACTGATTGC

+HWI-EAS443:3:14:1464:1518#0/1
a]`a_a]YZ`_V__`_X_^`QZS_VR^^`¥XU]_^^¥QQ
@HWI-EAS443:3:14:146:2019#0/1
AGACAATGGAACGTGTACCCAGGAGATTTCATCGATTAT
+HWI-EAS443:3:14:146:2019#0/1
aabbaa`a`a__XaW^aa`_a_]``^`^`X^_]X^^^]
@HWI-EAS443:3:14:1475:28#0/1
TCCAGAAACTGATTGCCCCAGGGAGACTACCAGTACCAA
+HWI-EAS443:3:14:1475:28#0/1
`__a`a_a_aa_aaa`SZRX^`__U__W^¥WWW¥`W¥SQ[¥
@HWI-EAS443:3:14:1476:1102#0/1
GGAAACTATGCAAACCTAAGAGGGGTAGCCCCATTGCATTT
+HWI-EAS443:3:14:1476:1102#0/1
¥_[^^aba^`aaa]Zb`aabaaa]`bW]aY¥`aaY[_^`
@HWI-EAS443:3:14:1498:1398#0/1
TGCCGGTTTCATTGAAGGGGGGTGGACAGGGATGGTAGAT
+HWI-EAS443:3:14:1498:1398#0/1
^]bbbbba_^bbbbbabbbb`^]b[ba`baaZ]bbPa`aa
@HWI-EAS443:3:14:1532:864#0/1
CATCATTTGAAAGTTTGAGATATTCCTCAAGACAAGTTC
+HWI-EAS443:3:14:1532:864#0/1
ab[^`aabaaa`b`W`^a`a`a`a`_¥][_`^U^__]]_WO
@HWI-EAS443:3:14:1575:379#0/1
CCGGGAGACAAAATAACATTGCAAGCAACTGGAAATCTAG
+HWI-EAS443:3:14:1575:379#0/1
YR_a`_`aa¥_aba^WY_b`H`_X¥[V]J]`^[[[]_0^`
@HWI-EAS443:3:14:1611:1372#0/1
AATTTTGCTTCTCTGAGTATTTTGGGTAGTCATAAGTCC
+HWI-EAS443:3:14:1611:1372#0/1
a_Za^[a]Y`ZF_L_`Ya[a`a^`_H_^WOLTR_`^^¥RF
@HWI-EAS443:3:14:1629:278#0/1
GGGCATTACCATCCATCTACTAGTGCTGACCAACAAAG
+HWI-EAS443:3:14:1629:278#0/1
Z_bbaababb`^aa`aab_b_a_aa_] [ab__U`aR_aaa
@HWI-EAS443:3:14:1667:110#0/1
TCCGGCTTGAACCTTCTGCTGTATCTTGATGTCCCCACAA
+HWI-EAS443:3:14:1667:110#0/1
`^Y_a[_RXVaR__ZX`QX_aU]¥N¥a¥Y[MXZVXPXRZ^
@HWI-EAS443:3:14:1752:1503#0/1
ATTGCATTTGGGTAAATGTAACATTGCTGGCTGGATCCTG
+HWI-EAS443:3:14:1752:1503#0/1
_bbbaaaaaab`_aba`b_aa[_a`_aa`^aaZZ_X`[_
@HWI-EAS443:3:14:205:1970#0/1
CACGTGTATCGCATTTGTGGTAAAATTCAAAGCAGCCGT
+HWI-EAS443:3:14:205:1970#0/1
Xb^^LZV_Z`SS_b_baa[`VMab[aaaaa^_R`^aUZ[
@HWI-EAS443:3:14:221:657#0/1
ATTTTGCTTCTCTGAGTATTTTGGGTAGTCATAAGTCCC
+HWI-EAS443:3:14:221:657#0/1
`bbaabaabaaaaabab^aaa`_a_aZaa_`_a__a^__`

@HWI-EAS443:3:14:24:637#0/1
GCCAGTTAAAAACAATGCCAAGGAAATTGGAAACGGCTG
+HWI-EAS443:3:14:24:637#0/1
a` `[a` ^^a^]`_^a_a_a^T`Z]]X[^_¥¥____¥_B
@HWI-EAS443:3:14:254:1145#0/1
TCTAGAGGCCTATTTGGGGCCATTGCCGGTTTCATTGAAG
+HWI-EAS443:3:14:254:1145#0/1
abab`^^`aaaaa`a^U^abb^^^`a` [`R_`V` `` `^` `^`
@HWI-EAS443:3:14:266:1581#0/1
CAAGATACAGCAAGAAGTTCAAGCCGAAATAGCAATAAG
+HWI-EAS443:3:14:266:1581#0/1
`RW[TO^`^a_ZX¥YY_SJY^V[]¥`a[U]^U]_a_¥¥[
@HWI-EAS443:3:14:314:1320#0/1
CTGACAAGTTGTATTGCAATCGTGGACTGGTGTATCTGAA
+HWI-EAS443:3:14:314:1320#0/1
aaaa`]]`[aa_aa]`abaa`_[__^^`a[W_^a`^^a_
@HWI-EAS443:3:14:322:1036#0/1
CTGGTGTATCTGAAATGATAATACCAGATCCAGCATTCT
+HWI-EAS443:3:14:322:1036#0/1
abbb[`a_abbbbaabbbbbbabbaabaaa_abb`aaa`ab
@HWI-EAS443:3:14:341:230#0/1
CACCATCCATCTACTAGTGCTGACCAACAAAGTCTCTATC
+HWI-EAS443:3:14:341:230#0/1
abbaaa`abbaabb`_b[`aaaa¥`a`a`U`_W`_¥`_^_
@HWI-EAS443:3:14:359:1783#0/1
ATTCTACACTGTAGAGACCCATTAGAGCACATCCAGAAAC
+HWI-EAS443:3:14:359:1783#0/1
^^¥aaaaaa`aX`aaa`a_a`_Y]T]]aa____`Z^` []
@HWI-EAS443:3:14:359:1810#0/1
GAAGTCCTCGTGCTATGGGGCATTACCATCCATCTACTA
+HWI-EAS443:3:14:359:1810#0/1
[]WZ^b]SabZV`ZTW]aZ`GPT[]a`_U¥SN`¥aXaZ^
@HWI-EAS443:3:14:370:669#0/1
CAATGGAACGTGTTACCCAGGAGATTTTCATCGATTATGAG
+HWI-EAS443:3:14:370:669#0/1
a`_`a]WXYULTWa[_`Z^`^`^`]]`¥¥R`X_^[SY`[U¥
@HWI-EAS443:3:14:399:261#0/1
GTGGGGACATCAAGATACAGCAAGAAGTTCAAGCCGGAAA
+HWI-EAS443:3:14:399:261#0/1
a^`a`a^[¥^ZZ____`_Z` `^^`_¥]`XYY_^_WZ__ZWY
@HWI-EAS443:3:14:436:1679#0/1
GCCGGTTTCATTGAAGGGGGTGGACAGGGATGGTAGATG
+HWI-EAS443:3:14:436:1679#0/1
aaaaaW¥a]SS]QSQVS^`MaSPKZ¥`Z¥VGP¥_MZ`¥BB
@HWI-EAS443:3:14:43:795#0/1
CTCGTCAATGGCATTCTGTGTGCTCTTCAGGTCGGCTGCA
+HWI-EAS443:3:14:43:795#0/1
aabb_aaa`aaaaa`aaa`a¥aaa^a_a`^X[_a`_^a^_
@HWI-EAS443:3:14:445:1368#0/1
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@HWI-EAS443:3:14:874:18#0/1
ATACATCCGATCACAATTGGAAAATGTCCAAAATATGTAA
+HWI-EAS443:3:14:874:18#0/1
]abaaa`aa`_]aa`_`_a^___[[]]^_^_^_[^^
@HWI-EAS443:3:14:897:1084#0/1
TGAAAAGGTAAGAAGCCAGTTAAAAACAATGCCAAGGAA
+HWI-EAS443:3:14:897:1084#0/1
abb_babaIaba_aaaaba_aaaaaaaaa`a^¥a_aa__
@HWI-EAS443:3:14:924:812#0/1
GGTAAATGTAACATTGCTGGCTGGATCCTGGGAAATCCAG
+HWI-EAS443:3:14:924:812#0/1
aaaaabbb^bbb`baaabbaa_a`a_a`_`aVYXa``_aa
@HWI-EAS443:3:14:949:1605#0/1
GGGGACATCAAGATACAGCAAGAAGTTCAAGCCGAAATA
+HWI-EAS443:3:14:949:1605#0/1
`bbaa[X]`_X_Y¥b`[]^ab`Y`]U`_]`UY`_aaa__
@HWI-EAS443:3:15:101:1647#0/1
GCTTCGAATGTTATTTTGTCTCCCGCTCTACTAGTGTCC
+HWI-EAS443:3:15:101:1647#0/1
ab[^abbba^^`abbaba¥`W`ba^]]a^^V`¥`[X]`aa
@HWI-EAS443:3:15:1023:1859#0/1
GGGACATTCCTCAATCCTGTGGCCAGTCTCAATTTTGTGC
+HWI-EAS443:3:15:1023:1859#0/1
`Y]0a_OZ_]R_^[]`¥`Z¥XS^_RRWSY[H^_X^¥SYT
@HWI-EAS443:3:15:1032:461#0/1
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+HWI-EAS443:3:15:1032:461#0/1
a_QOX`[`Z`ba^`a`baa`aa^W`_a]GQ¥FT`_Y[
@HWI-EAS443:3:15:1054:396#0/1
AATTTACTTTGTTAGTAATCTCGTCAATGGCATTCTGTGT
+HWI-EAS443:3:15:1054:396#0/1
aabbbbaa]baa_aaaaaaaaa`b_aaa`_a^aaaa``_]`^
@HWI-EAS443:3:15:1088:479#0/1
GGCTAGTTAAAAAAGGAAATTCATACCCAAAGCTCAGCAA
+HWI-EAS443:3:15:1088:479#0/1
TV^RRWTY^ROUOX^ZTYOYZVPNNKPXRO]`[P]_YUQF
@HWI-EAS443:3:15:1117:1448#0/1
TGGGCCATGAACCTTGTCTTGGGAATATCTCAAACCTTTC
+HWI-EAS443:3:15:1117:1448#0/1
abaa_aaab[aaa`a`_`a_]`XXZ[]aYaa`U`ZT^^`_
@HWI-EAS443:3:15:1142:1865#0/1
TTCCGGCTTGAACCTTCTTGCTGTATCTTGATGTCCCCACA
+HWI-EAS443:3:15:1142:1865#0/1
HP]¥R^^^TYZ]UOV_XVW]Y_SaWVI`[GLP]XXW^VR`
@HWI-EAS443:3:15:1159:1080#0/1
GCATATCCTGACCCCTGCTCATTTTGTGATGGTGATAACCGT
+HWI-EAS443:3:15:1159:1080#0/1
aa[a`QTXP_X_S_]XUL^]NLNRQXZVVXY_ZLTQYTWN
@HWI-EAS443:3:15:1168:1515#0/1
GGGGCCATTGCCGGTTTCATTGAAGGGGGTGGACAGGGA

+HWI-EAS443:3:15:1168:1515#0/1
a`Y[[aa`aaa^`R^a]aXZaX]]`aY`aP][UX^``UO
@HWI-EAS443:3:15:1173:838#0/1
ATTTCCCAGGATCCAGCCAGCAATGTTACATTTACCCAAA
+HWI-EAS443:3:15:1173:838#0/1
]`Y[`Z¥`b]]^Z]_¥Y]`UZ]Pb`]a`_`aa[a`Z¥`TY
@HWI-EAS443:3:15:1386:1705#0/1
GGGGACATCAAGATACAGCAAGAAGTTCAAGCCGGAAATA
+HWI-EAS443:3:15:1386:1705#0/1
^bbabaabaaaaaaa`bbaaaaa`aXaaaaaTR¥__a`aa
@HWI-EAS443:3:15:1421:1406#0/1
AGCATGAGGACATGCTGCCGTTACACCTTTGTTGAGTCA
+HWI-EAS443:3:15:1421:1406#0/1
aabaab`aaZ[aaa`aaa`_]a`__OX__a]`X___^Y^
@HWI-EAS443:3:15:1426:1629#0/1
ATGAAATCTCCTGGGTAACACGTTCCATTGTCTGAACTAG
+HWI-EAS443:3:15:1426:1629#0/1
abbaabbb]a^aba_0__`a^a]__^_I¥WL]a_^`W^X¥
@HWI-EAS443:3:15:1537:1904#0/1
GCTGGCTGGATCCTGGGAAATCCAGAGTGTGAATCACTCT
+HWI-EAS443:3:15:1537:1904#0/1
aaX[___IZ^ab_b]ZT¥QWSQVMMUSaSUP`_`HVBBBBB
@HWI-EAS443:3:15:1594:376#0/1
TCCGGCTTGAACCTTCTTGCTGTATCTTGATGTCCCCACAA
+HWI-EAS443:3:15:1594:376#0/1
]abbb]ab_GZXVZQaa_] [YZ^0^``aYZ[LR]¥^``a
@HWI-EAS443:3:15:1609:518#0/1
ATGCGATAACACGTGCATGGAAAGTGTCAAAAATGGGACT
+HWI-EAS443:3:15:1609:518#0/1
aab`]¥a__STa^Taab_US_Y``GbY_a^Vba]b^Z`]_
@HWI-EAS443:3:15:1617:697#0/1
TGAACCTTTTACCTACTGCTGTGAACCTGTATTTCATCTT
+HWI-EAS443:3:15:1617:697#0/1
abaa_¥V¥`a]G]]YP]a¥[]U]WNFW_QYSZaXTX_Y^_
@HWI-EAS443:3:15:1637:900#0/1
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+HWI-EAS443:3:15:1637:900#0/1
abbbba`bba`ababaaab¥bab¥`_`_`aa_abaaaa_a_
@HWI-EAS443:3:15:1651:1694#0/1
GAGCTTTGGGTATGAATTTCTTTTTTAACTAGCCATATT
+HWI-EAS443:3:15:1651:1694#0/1
¥¥Z`aaba_a¥Zb_b_¥¥QGYba`aaab_[[[W]aaabb`
@HWI-EAS443:3:15:1717:1278#0/1
ACTGTGTATTTCATCTTTTCAATAACAGAATTTACTTTGTT
+HWI-EAS443:3:15:1717:1278#0/1
a_a^aaZ_a`_`_`[`bb`[^`aab_^`a`b`^`_bab`^a
@HWI-EAS443:3:15:1757:287#0/1
CTTCTTGCTGTATCTTGATGTCCCCACAAAAACATATGCA
+HWI-EAS443:3:15:1757:287#0/1
abbbbbb¥bbaXababaaabbbbaWTababaaabab`babSa

@HWI-EAS443:3:15:210:567#0/1
GGGACATCAAGATACAGCAAGAAGTTCAAGCCGGAAATAG
+HWI-EAS443:3:15:210:567#0/1
aabaaaa`Y``a`aaaaaa_aZ__a¥_^_a`^^`_`_
@HWI-EAS443:3:15:231:161#0/1
AAAAACAATGCCAAGGAAATTGGAAACGGCTGCTTTGAA
+HWI-EAS443:3:15:231:161#0/1
aa`aaaaaa_aa`a`a_a_[_[ZaY^X^XV_¥FX¥ZFSR
@HWI-EAS443:3:15:271:429#0/1
CTGGTGTATCTGAAATGATAATACCAGATCCAGCATTTCT
+HWI-EAS443:3:15:271:429#0/1
aaa^^a^a^`a`__`]^_^^`a```_[^]`_^^^`YX_
@HWI-EAS443:3:15:294:69#0/1
AGCAATTGAGCTCAGTGTGCATCATTTGAAAGTTTGAGAT
+HWI-EAS443:3:15:294:69#0/1
[a^aa^¥V]aMSYbbT¥HX¥bYa_a]baK_b^_^¥¥]`LY
@HWI-EAS443:3:15:299:1432#0/1
GCCAGTCTCAATTTTGTGCTTTTTACATATTTTGGACATT
+HWI-EAS443:3:15:299:1432#0/1
_ba]XU`]^_a_]¥¥X¥X`¥a_a`a]aaaaXb_aa`aa`^`
@HWI-EAS443:3:15:341:1546#0/1
CACTCTGTAACTTCTAGAAGACAAGCATAACGGGAAAC
+HWI-EAS443:3:15:341:1546#0/1
abbbb`babbbbaabaabbaaabba^aaabbaaa^a`aa
@HWI-EAS443:3:15:373:369#0/1
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+HWI-EAS443:3:15:373:369#0/1
abba`]abaa`aaa^``aa_baSaa]_Zbaa`a`__a__
@HWI-EAS443:3:15:379:433#0/1
CCCGGCTCTACTAGTGTCCAGTAATAGTTCATTCTCCCTT
+HWI-EAS443:3:15:379:433#0/1
abbbbabbaa_aaa[a`_a_a]aaa^a]a``aa_a]a`_
@HWI-EAS443:3:15:397:1916#0/1
CGCCAGTTCATTGGTACTGGTAGTCTCCCTGGGGGCAATC
+HWI-EAS443:3:15:397:1916#0/1
aaba^bT¥aa]X`XV¥`^`aM]ZNXR[]U[Y¥^Y]G¥[YQ
@HWI-EAS443:3:15:400:374#0/1
TTCAGTCTCGCTGCATATCCTGACCCCTGCTCATTTTGAT
+HWI-EAS443:3:15:400:374#0/1
aaaabbP[__Xa`R¥aa_a^_a_]_a_a`__^Z]_^__[_
@HWI-EAS443:3:15:432:484#0/1
GGGACATCAAGATACAGCAAGAAGTTCAAGCCGGAAATAG
+HWI-EAS443:3:15:432:484#0/1
^¥`]aa_¥V_X_]aaa]]a]]]aX^``[_]_]__^^`_^_
@HWI-EAS443:3:15:437:1892#0/1
GCTAAGAGAGCAATTGAGCTCAGTGTGCATCATTTGAAAGG
+HWI-EAS443:3:15:437:1892#0/1
aaaba]]`[a¥aba`a_a^`aa^`Ua_____aa`a`a`a_
@HWI-EAS443:3:15:486:625#0/1
TTTTGCTTCTCTGAGTATTTTGGGTAGTCATAAGTCCCA

+HWI-EAS443:3:15:486:625#0/1
aabbbaa^baab`baba_`bbb`aaaOS`Xa]``_a%U_X_
@HWI-EAS443:3:15:503:401#0/1
GAGCAATTGAGCTCAGTGCATCATTGAAAGTTTGAGA
+HWI-EAS443:3:15:503:401#0/1
aXa[V]a`_T%_]R`aZTL^aa__Y][a]SS`_Q]``]`_
@HWI-EAS443:3:15:514:852#0/1
TGCATATGTTTTGTGGGGACATCAAGATACAGCAAGAAG
+HWI-EAS443:3:15:514:852#0/1
[aT[Y]T%ZbaaS%[XU^aY^_bbaaaa]_`ba[aa^[]b
@HWI-EAS443:3:15:548:224#0/1
GGGGCATTACCATCCATCTACTAGTGCTGACCAACAAAG
+HWI-EAS443:3:15:548:224#0/1
a`[aa%Z]_Z%a^Q%MT^```_] ^V`[[a_WU%[QWV[a
@HWI-EAS443:3:15:54:647#0/1
CATTACCATCCATCTACTAGTGCTGACCAACAAAGTCTC
+HWI-EAS443:3:15:54:647#0/1
abbbbbbaa``abbbab`bab_aa`a`a^a_¥a`a`[a`a
@HWI-EAS443:3:15:563:1275#0/1
AGAAGTCCTCGTGCTATGGGGCATTACCATCCATCTACT
+HWI-EAS443:3:15:563:1275#0/1
aaZXYFWY]aXKT^W%_`^USPTU%Z_¥_]YLRU%¥VTRV
@HWI-EAS443:3:15:583:758#0/1
ATTTTGTCTCCCGCTCTACTAGTGCCAGTAATAGTTCA
+HWI-EAS443:3:15:583:758#0/1
bbabbab`aa] ^`a`]a```a%¥H^__`U_a_]YS_^_
@HWI-EAS443:3:15:591:1682#0/1
GGGGACATCAAGATACAGCAAGAAGTTCAAGCCGAAATA
+HWI-EAS443:3:15:591:1682#0/1
`abbabbbbbbbabbbababbb`bab_^ab`bbabaabbab
@HWI-EAS443:3:15:614:418#0/1
CTTCTCTGAGTATTTTGGGTAGTCATAAGTCCCATTTTT
+HWI-EAS443:3:15:614:418#0/1
aab`^_aabab_aaa_¥b`^`]a_aaa`aa]`¥_Q]^Zaa
@HWI-EAS443:3:15:661:1246#0/1
TGAGTATTTTGGGTAGTCATAAGTCCCATTTTTGACACTT
+HWI-EAS443:3:15:661:1246#0/1
aaba_aa``aaaa^aa^a`aaa_^`__a`_aaa^_^`a`_
@HWI-EAS443:3:15:759:1908#0/1
CATCTATTTCTTCTCTGTTTAATTTTGCTTCTCTGAGTA
+HWI-EAS443:3:15:759:1908#0/1
abbbabbbbbabbaaab_babaaaaa`_aaa_aaaaa`^a
@HWI-EAS443:3:15:762:506#0/1
GGGGCATTACCATCCATCTACTAGTGCTGACCAACAAAG
+HWI-EAS443:3:15:762:506#0/1
`aPa]^_`Qa%a^a^Tab_ba_aaaaZ`aa%a`_a]_[[]a
@HWI-EAS443:3:15:76:281#0/1
AAAAAGCACAAAATTGAGACTGGCCACAGGATTGAGGAAT
+HWI-EAS443:3:15:76:281#0/1
abba]aaaaa^a`aaaaaaaaaaa_W_^` [W`]R]]W%Y

@HWI-EAS443:3:15:807:189#0/1
GCTGGCTGGATCCTGGGAAATCCAGAGTGTGAATCACTCT
+HWI-EAS443:3:15:807:189#0/1
aaa````_`_`[¥UYPX`ZPTWTS[¥¥VYH[Q¥¥¥STPPSMQ
@HWI-EAS443:3:15:80:1068#0/1
AACCGTACCATCCATCTACCATCCCTGTCCACCCCTTC
+HWI-EAS443:3:15:80:1068#0/1
`ba¥ZZb`¥a`^aa`aaaa^^¥¥¥`¥¥^a^¥ZZ_a_¥_
@HWI-EAS443:3:15:810:465#0/1
GCTGCTTTGAATTTTACCACAAATGCGATAACACGTGCAT
+HWI-EAS443:3:15:810:465#0/1
^_¥aZV_a`UJW``TWTaa`[VYWUa^^^]¥`_aS^[W_
@HWI-EAS443:3:15:835:672#0/1
CAATGGCATTCTGTGTGCTTTCAGGTCGGCTGCATATCC
+HWI-EAS443:3:15:835:672#0/1
abbbbbbbbabbbbabbaabb`bbb]baababababa^`
@HWI-EAS443:3:15:880:1630#0/1
TAAAAAAGGAAATTCATACCCAAAGCTCAGCAAATCCTAC
+HWI-EAS443:3:15:880:1630#0/1
Ya¥Y[QWQ_]T¥¥Y^¥^U^X)`a`W]`_^]PUN¥`W__
@HWI-EAS443:3:15:908:221#0/1
GACCAACAAAGTCTCTATCAGAATGCAGATGCATATGTTT
+HWI-EAS443:3:15:908:221#0/1
¥^`Z]_Y^`¥`[a[aaS^^a``¥Za¥¥Z[P`aa]S]^Z^a
@HWI-EAS443:3:15:939:161#0/1
ATCGATGAAATCCTCCTGGGTAACACGTTCCATTGTCTGAA
+HWI-EAS443:3:15:939:161#0/1
aa`aa`aaaa```]Z^`^[X`_]L[Y¥YTTY]^WUYVTY
@HWI-EAS443:3:15:956:355#0/1
ATTGCATTTGGGTAAATGTAACATTGCTGGCTGGATCCTG
+HWI-EAS443:3:15:956:355#0/1
aaab`bba[aaa^aa```_aaaaa```_a`_`a[_Z]_XW
@HWI-EAS443:3:15:976:1108#0/1
AGGGGTCAGGATATGCAGCCGACCTGAAGAGCACACAGAA
+HWI-EAS443:3:15:976:1108#0/1
````bb^aa`aaaa^^`]^a^aa`aaa`aaaaa\_`¥\_a`\_  
@HWI-EAS443:3:15:989:907#0/1  
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+HWI-EAS443:3:15:989:907#0/1  
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+HWI-EAS443:3:15:993:912#0/1  
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+HWI-EAS443:3:16:1065:678#0/1  
S\_Y^\_a\_[[\_¥ab^¥U\_\_`¥Z`]Z\_S]ba¥`a^`^Y]  
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+HWI-EAS443:3:16:1188:1463#0/1  
Z0^\_V\_aaa^Z[HT`\_S^\_¥UNYaaNQSSRT\_[T[¥¥\_\_B  
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+HWI-EAS443:3:16:1236:1464#0/1  
a\_R`[Waaa[aa^LVF0a`Z\_¥^^\_a`XX`SX\_]aY[  
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+HWI-EAS443:3:16:1289:45#0/1  
\_[^a`]^[\_T^\_a^\_YY\_\_X]\_^)`TYPTY]ZW¥]XYX  
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+HWI-EAS443:3:16:1321:1432#0/1  
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+HWI-EAS443:3:16:1411:1499#0/1  
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+HWI-EAS443:3:16:1620:788#0/1  
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+HWI-EAS443:3:16:1653:1498#0/1  
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+HWI-EAS443:3:16:1690:935#0/1  
a^a¥Y[[[^`[VZZ^YLYZ^XZOMUQRW¥X¥QZYTQUZUQ  
@HWI-EAS443:3:16:1726:330#0/1  
CTGCATATCCTGACCCCTGCTCATTTTGTGGTGATAACC  
+HWI-EAS443:3:16:1726:330#0/1  
a`a`aaaa^aaaa`\_`a^]``\_```a`\_\_aZVaZ\_\_`WN

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aa\_aa`aaaba`ab`aa`a`a`\_aa`\_aV¥]\_]\_]aW]^  
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GCTGGATCCTGGGAAATCCAGAGTGTGAATCACTCTCCAC  
+HWI-EAS443:3:16:1772:1118#0/1  
aa`\_a^\_\_Za\_\_`\_^`¥¥¥\_¥aU`W`W^¥\_¥¥VWWN¥¥  
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+HWI-EAS443:3:16:1784:126#0/1  
aaaa`Za\_aa`b]a`aa\_aa]U^a^Z`^Xa^WZV^`\_^\_  
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+HWI-EAS443:3:16:197:1069#0/1  
^aZShXY\_a\_aaS^^U`YT`\_a\_Z\_]Na¥\_XM^VXT\_^  
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+HWI-EAS443:3:16:223:1566#0/1  
`Yaa``abbba`aa``¥\_]`\_`a`\_`^¥aaa`\_a```\_^\_  
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+HWI-EAS443:3:16:246:466#0/1  
aaaaa`aa\_¥[ ]\_^`][X\_^\_a^^U\_UZS¥¥^¥U\_¥¥^¥  
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[¥`¥a]N^a`]ab\_Z\_abTaaY\_aaaaa\_aa^`aa[aa`\_  
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+HWI-EAS443:3:16:271:1467#0/1  
`a`[aYa`a^^R\_^^`^a`a\_\_\_\_\_]¥\_\_V^\_\_\_\_^\_\_\_\_^¥\_  
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+HWI-EAS443:3:16:309:960#0/1  
a`^`ZU```a`b`W]Y\_Z^T^]`¥a`a\_]\_a`a]N¥¥^ZU  
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+HWI-EAS443:3:16:366:453#0/1  
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+HWI-EAS443:3:16:555:1550#0/1  
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aa^¥¥\_`^aY]]aa^]\_^abbaaabaaba]U]Xaa]a¥^a  
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+HWI-EAS443:3:16:605:1331#0/1  
a\_\_`b`````Z][UW]aaZa[YG\_]¥Ra]Ja[Q`b`PY\_]\_  
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a`b`baab^``aabb¥`a`aa`aaaa`ZXTV¥aaa\_0^a  
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abaaa`a\_ab\_a\_`a`a`aaa`\_`^a`\_\_`\_a\_\_^^¥\_`^  
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ATTGAGCTCAGTGTATCATTTTGAAGGTTTGAGATATTC  
+HWI-EAS443:3:16:72:1724#0/1  
a\_`^¥[a\_a`\_]`\_^\_\_\_\_a¥a```\_`]]`X^`^`^`\_`^W`

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\_Sabab¥¥Vb`bbbabbabbab`bbba`bb\_aXab]`aa  
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+HWI-EAS443:3:16:762:2037#0/1  
¥ba¥VSS¥`a¥X^b^`a¥QSYba`VR`¥aa^Z`a^`\_`aa\_  
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+HWI-EAS443:3:16:831:1641#0/1  
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+HWI-EAS443:3:16:854:1763#0/1  
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abaa`^aaaaaaaa\_aaa^`\_a\_\_`\_`\_aa^\_a\_a`\_]`  
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+HWI-EAS443:3:16:889:319#0/1  
[`bb\_\_Yaba`\_X`M^Z\_\_aX^a¥¥NV\_a`aVa`ba]\_]¥  
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+HWI-EAS443:3:16:907:1218#0/1  
a¥¥a^b`\_aZbaa`Vaaa`\_Va¥R\_[¥`aXRZX^a]]^Q^  
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+HWI-EAS443:3:16:918:1444#0/1  
aa\_ab`bbaabaaa\_bbaa¥a\_aa`\_`ab^aa`\_a\_`a\_X`  
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+HWI-EAS443:3:16:924:1588#0/1  
]b¥]^D¥a^a\_VZ`aaab]]Y¥^RY]\_\_`a`WHTYZO¥]\_  
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+HWI-EAS443:3:16:964:468#0/1  
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+HWI-EAS443:3:17:103:1446#0/1  
a^Y^a\_Z]\_SG[Y[``[^¥WV]\_\_[NXQXTS[YYY[]ZZ¥  
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+HWI-EAS443:3:17:1040:1916#0/1  
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Z\_V^¥\_Y¥¥¥`[[Z^[X[aa]¥Z¥XY^`\_] []XMZVYS¥  
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abaa^\_¥¥\_a\_aaa\_a[N¥aaa[``[\_\_a^`aa\_aa¥\_\_\_\_  
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+HWI-EAS443:3:17:1248:1578#0/1  
W\_\_WZQJ\_\_Q\_a`¥Zbbb\_\_N^`T]\_\_`T^^¥VZZa^JQ^  
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+HWI-EAS443:3:17:1249:1980#0/1  
a^aab`aa]aYJ[X^X\_\_a^¥^\_ZOXX\_\_W]``a^¥ZW\_V

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+HWI-EAS443:3:17:125:1863#0/1  
Z¥bb¥ZZ`b]aaaaaa[¥M^a\_^G^a``\_¥`^OW^H[aTP  
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+HWI-EAS443:3:17:1293:582#0/1  
aa`]Y]aa^a`a^`\_Za\_aaZ`\_^¥\_V[\_¥Z^`\_U]\_W[S  
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+HWI-EAS443:3:17:1317:937#0/1  
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+HWI-EAS443:3:17:1337:166#0/1  
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+HWI-EAS443:3:17:1405:1579#0/1  
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\_```\_abba`a`^X]^aaabUaa^G\_a[\_``aa]aaXR]N  
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¥b`bbb``baaX^^aUaaaaaaa¥aWa]aaaaaa\_W¥¥¥  
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+HWI-EAS443:3:17:1493:2016#0/1  
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+HWI-EAS443:3:17:155:1738#0/1  
ab`aaaaaaa¥aa\_aY¥``a[\_a^][aa\_\_a`^`\_\_\_\_```  
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aba\_]`]aa^a]a```]T^]Q¥¥^¥\_^U]^]a\_`W`]Z^W  
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+HWI-EAS443:3:17:181:809#0/1  
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@HWI-EAS443:3:17:201:1251#0/1  
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+HWI-EAS443:3:17:201:1251#0/1  
aba`baba^abaaa\_aa\_[^`\_aa\_a`aY\_a\_a`W`\_  
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AGAATTTACTTTGTTAGTAATCTCGTCAATGGCATTCTGT  
+HWI-EAS443:3:17:204:1676#0/1  
a\_\_a\_\_`Y`[a\_X\_\_0\_`aa]\_`^a\_[UURZ]UY\_V[Q  
@HWI-EAS443:3:17:207:1693#0/1  
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+HWI-EAS443:3:17:207:1693#0/1  
abaVZbV`W¥^\_\_S]Z`a`¥``aYa^aXa`Q`b^a¥QQYT  
@HWI-EAS443:3:17:210:1336#0/1  
GAAGCCAGTTAAAAACAATGCCAAGGAAATTGGAAACGG  
+HWI-EAS443:3:17:210:1336#0/1  
^Z`a\_abb\_b`bbbaab¥J¥b\_\_X\_]Z``aU]N^aVHYa  
@HWI-EAS443:3:17:212:823#0/1  
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+HWI-EAS443:3:17:212:823#0/1  
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@HWI-EAS443:3:17:266:183#0/1  
CTCCCGCTCTACTAGTGTCCAGTAATAGTTCATTCTCCC  
+HWI-EAS443:3:17:266:183#0/1  
a^\_a[aba\_a`]W\_\_a]^S[ ]`\_N[W]NZ^]VY[ ]]¥TR¥  
@HWI-EAS443:3:17:305:1558#0/1  
TGGGCCATGAACCTTGTCTTGGGGAATATCTCAAACCTTTC  
+HWI-EAS443:3:17:305:1558#0/1  
a]^`aaaa¥ab`]\_aaaa\_a`\_aaa`\_ab`a`a\_a\_a  
@HWI-EAS443:3:17:341:237#0/1  
CACCAGTCCACGATTGCAATACAACCTTGTCCAGACACCCAA  
+HWI-EAS443:3:17:341:237#0/1  
abba]SS)`]`a¥]Z]a^] ^YWa`aa`¥YXY\_YV`UTR]¥  
@HWI-EAS443:3:17:343:1884#0/1  
GAAGTCCTCGTGTATGGGGCATTACCATCCATCTACTA  
+HWI-EAS443:3:17:343:1884#0/1  
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GCTGGCTGGATCCTGGGAAATCCAGAGTGTGAATCACTCT  
+HWI-EAS443:3:17:343:550#0/1  
abbbb`ab\_a`aa\_Za`\_aaa^baaWaS`\_a`aa¥a`\_`\_`





+HWI-EAS443:3:17:611:624#0/1  
aI]\_^[\ [Z¥\_^YYZ`MZ[\_U¥P^XVVXZ\_^]]Z^]XWXX  
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+HWI-EAS443:3:17:634:398#0/1  
aU\_¥WbaaMaaa`\_\_\_\_`a`a^`\_\_^\_^\_¥\_\_`\_]^\_aV  
@HWI-EAS443:3:17:642:343#0/1  
GGGGACATCAAGATACAGCAAGAAGTTCAAGCCGGAAATA  
+HWI-EAS443:3:17:642:343#0/1  
abX\_¥XRU`a`¥aZPL¥]V[\_\_\_]a\_G[\_\_\_WYY``GVQ\_`]  
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TTCCGGCTTGAACCTTGCTGTATCTTGATGTCACCA  
+HWI-EAS443:3:17:654:1497#0/1  
a^^^[^`\_XTL[TYVZV\_]ZVYT¥WUT\_[RQYQOVR]¥WR  
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+HWI-EAS443:3:17:664:1161#0/1  
a`aa¥a`\_]X`aa]Y`]Saa^a\_X\_]`b]Y^^[`X\_ZNUG  
@HWI-EAS443:3:17:71:1248#0/1  
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+HWI-EAS443:3:17:71:1248#0/1  
`\_^a\_`baab`Y`^a\_aaaaa`¥[b`````aaaaa\_OZ``  
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AAAGAACCTTGGACTACCACGATTCAAATGTGAAGAACTT  
+HWI-EAS443:3:17:833:1921#0/1  
a`ba`aaa`a\_¥bbaa`aa`a\_``\_aaa`\_]``a\_\_`Z\_^  
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+HWI-EAS443:3:17:841:345#0/1  
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+HWI-EAS443:3:17:867:497#0/1  
ZY\_0a]\_Y`Uaa¥`PZU\_Y^`]`KTVUU¥RX¥XRW^`X\_  
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AGCCAGTTAAAAACAATGCCAAGGAAATTGGAAACGGCT  
+HWI-EAS443:3:17:871:1351#0/1  
a\_aaa`\_a\_aa`\_`\_\_a`\_]\_^a\_]a`\_]`\_^]\_^]\_^VS  
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+HWI-EAS443:3:17:882:679#0/1  
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@HWI-EAS443:3:17:929:315#0/1  
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+HWI-EAS443:3:17:929:315#0/1  
abbbabbbaba\_a^FWa\_aa[aa\_[`aa^\_Ua`TVaaO\_[  
@HWI-EAS443:3:17:941:1332#0/1  
TGCCGGTTTCATTGAAGGGGGTGGACAGGGATGGTAGAT  
+HWI-EAS443:3:17:941:1332#0/1  
Za`^a¥\_¥aba`a¥aa[^b]GPZY[^[\`\_^`\_U¥WNY

@HWI-EAS443:3:17:951:166#0/1  
GCCGGTTTCATTGAAGGGGGTGGACAGGGATGGTAGATG  
+HWI-EAS443:3:17:951:166#0/1  
^^`W]T\_a\_aaa`a`¥`\_``ZSb]S\_]`^a`RSa\_RQ]HQa  
@HWI-EAS443:3:18:1023:1096#0/1  
ATTGCATTTGGGTAATGTAACATTGCTGGCTGGATCCTG  
+HWI-EAS443:3:18:1023:1096#0/1  
aaaa`[a^`\_a`VaZ\_\_`^a]\_`a[`\_a`\_\_`^ZX¥ZZZZ  
@HWI-EAS443:3:18:1075:157#0/1  
GTCCTCGTGCTATGGGGCATTACCATCCATCTACTAGTG  
+HWI-EAS443:3:18:1075:157#0/1  
aaaaa\_aZ`¥aa`^R`¥``[\_\_\_\_[\_\_\_\_V[V¥\_\_¥¥¥YW[  
@HWI-EAS443:3:18:1109:1477#0/1  
TTCGAATGTTATTTTGTCTCCCGCTCTACTAGTGTCCAG  
+HWI-EAS443:3:18:1109:1477#0/1  
aabb\_aab¥aababaaaaa\_a`a`\_`¥\_T]ZYUJJPZZ^]  
@HWI-EAS443:3:18:1140:1183#0/1  
ATGGGACTTATGACTACCCAAAATACTCAGAGGAAGCAAA  
+HWI-EAS443:3:18:1140:1183#0/1  
aaba\_\_aaaaa`aaa\_`^`\_`\_`a`a^`\_`a^`\_\_`^^`\_]`\_`\_`  
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+HWI-EAS443:3:18:1149:152#0/1  
`^`a`^aaa¥^^[YXRU[^`Y¥P¥^U^V^V[Y^MTXOPOT  
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AGTTGCTTTCGAATGTTATTTTGTCTCCCGCTCTACTAGT  
+HWI-EAS443:3:18:1152:182#0/1  
abaa\_0^aaa^aa`X\_Y]aaaaYWa`a^[^^^^^[UXOZN  
@HWI-EAS443:3:18:1153:595#0/1  
GTTAGTAATCTCGTCAATGGCATTCTGTGTGCTCTTCAGG  
+HWI-EAS443:3:18:1153:595#0/1  
aY`aa\_aaa^a`\_``\_`\_\_^]\_\_\_^`\_]`^^]`^Y^]UZ]V  
@HWI-EAS443:3:18:1174:1511#0/1  
GGGGCATTACCATCCATCTACTAGTGCTGACCAACAAAG  
+HWI-EAS443:3:18:1174:1511#0/1  
^P]a\_a[a]aaYa`]X]^\_\_a`W^[`\_]`^`\_]`W``\_`\_`  
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AAGAAATGCTGGATCTGGTATTATCATTTTCAGATACACCA  
+HWI-EAS443:3:18:1230:2021#0/1  
`b¥`aba`\_```\_aaPY`^Na`\_a¥R¥^^^Y`\_``]`\_SaS^\_  
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GCCGGTTTCATTGAAGGGGGTGGACAGGGATGGTAGATG  
+HWI-EAS443:3:18:1234:989#0/1  
aZW^aZ`\_]`]aaaST¥`\_`\_`\_`^W\_SUTT¥[ZUZ`VJV^SST  
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+HWI-EAS443:3:18:1295:1440#0/1  
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@HWI-EAS443:3:18:1309:799#0/1  
GGAAACCATCATCAACTTTTTTTATTTAAATTCTCTATTCT

+HWI-EAS443:3:18:1309:799#0/1  
`R^[]`^`a\_\_^^\_aa`a\_^^^[]Y^\_]^^]^^]  
@HWI-EAS443:3:18:1321:303#0/1  
GGGACATCAAGATACAGCAAGAAGTTCAAGCCGGAAATAG  
+HWI-EAS443:3:18:1321:303#0/1  
^`a]Taa`¥bbaa\_]aa\_aaZ]^\_Za``] `L[[` []]\_\_a  
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GTTTCATGGCCCAATCATGACTCGAACAAAGGTGTAACGGC  
+HWI-EAS443:3:18:1322:1093#0/1  
aaaa`^`aaaaba` ``ba\_\_\_`\_Y\_Y` `a¥]R\_Y\_\_S[\_W  
@HWI-EAS443:3:18:132:2022#0/1  
TCCTCTGAGTATTTTGGGTAGTCATAAGTCCCATTTTTGA  
+HWI-EAS443:3:18:132:2022#0/1  
a`baaabaar]b^¥a^V`]¥Z\_aaaa`\_Y[ `a^^a\_` `^a  
@HWI-EAS443:3:18:1350:707#0/1  
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+HWI-EAS443:3:18:1350:707#0/1  
abbbabbbabbab`bababaa`bbab\_bbbbaaababaa  
@HWI-EAS443:3:18:1380:1196#0/1  
GCTGGCTGGATCCTGGGAAATCCAGAGTGTGAATCACTCT  
+HWI-EAS443:3:18:1380:1196#0/1  
aaa\_aaaa\_\_`^^^TYX\_aaYYY[^Z\_W\_RS]\_¥W]UWWU  
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+HWI-EAS443:3:18:140:1004#0/1  
ab¥` [a` `baaa`Y` `Yaaa]`aaZaaa]^a\_a` \_\_`a\_\_  
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GAATTTACTTTGTTAGTAATCTCGTCAATGGCATTCTGTG  
+HWI-EAS443:3:18:1420:134#0/1  
][[XY]Z\_T¥a^Y`YV¥`Z^T]Xa^XW[^YTSX\_^XZ]VS  
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CTCCCGGCTCTACTAGTGTCCAGTAATAGTTCATTCTCCC  
+HWI-EAS443:3:18:1450:153#0/1  
aaaa¥a`\_a`a^P\_\_¥^aY\_]\_VY^a\_]\_V¥FT\_`^]LYW  
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+HWI-EAS443:3:18:1500:1176#0/1  
ab\_\_^abbbabb` `ab\_aaa\_a`Y\_R^` `aaaaa[^` []  
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+HWI-EAS443:3:18:1520:938#0/1  
^VN` `\_[aaZa¥\_Sa\_a\_R`a\_\_a\_¥Y]^\_\_a\_`SW]¥\_`^  
@HWI-EAS443:3:18:154:210#0/1  
AGAGCACATCCAGAACTGATTGCCCCCAGGGAGACTACC  
+HWI-EAS443:3:18:154:210#0/1  
a`aaaaab\_`a`¥aa^^`] `a\_`^`\_] `Z^[[X\_\_U  
@HWI-EAS443:3:18:1574:1663#0/1  
GTTGCTTCGAATGTTATTTTGTCTCCCGGCTCTACTAGTG  
+HWI-EAS443:3:18:1574:1663#0/1  
Z^baabbbb`abbababbba` `aa]X`^a\_a` `[G]]XZ[

@HWI-EAS443:3:18:159:400#0/1  
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+HWI-EAS443:3:18:159:400#0/1  
aaaaaaaa`a\_`aaaa\_aa\_aa\_aa\_\_\_\_\_Z^\_VY[^¥^[  
@HWI-EAS443:3:18:1625:606#0/1  
GGGACATCAAGATACAGCAAGAAGTTCAAGCCGGAAATAG  
+HWI-EAS443:3:18:1625:606#0/1  
Z\_¥`aa`a^SW`Z\_bb\_aa\_^ZF^aa\_aY``ZY\_¥Z\_  
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ATTGCTATTTCCGGCTTGAACCTTCTTGCTGTATCTTGATG  
+HWI-EAS443:3:18:1629:513#0/1  
a`aa\_aaaa\_aaa^\_aUV]Wa\_W[]]`\_[]\_W`]¥X^^  
@HWI-EAS443:3:18:1636:440#0/1  
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+HWI-EAS443:3:18:1636:440#0/1  
\_aaa¥[\_SK`S`abbab\_]`\_baa]a\_aa\_¥aba\_SXaa  
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+HWI-EAS443:3:18:1647:293#0/1  
a`]`^`b¥aabaaa\_ab\_aa`aaa^\_\_a`R^a\_^^`\_\_  
@HWI-EAS443:3:18:1738:336#0/1  
GAAAGAAGTCCTCGTGCTATGGGGCATTACCATCCATCT  
+HWI-EAS443:3:18:1738:336#0/1  
^`]`^X^YQ\_H`PVL`V¥RQ`Z[XXDS][QS\_QFRYU]  
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ATTGCTATTTCCGGCTTGAACCTTCTTGCTGTATCTTGATG  
+HWI-EAS443:3:18:1749:654#0/1  
a^^S0]a`]\_[[\_`\_aaa\_\_NW\_P]\_`\_\_a^W\_]\_Z[WZZ  
@HWI-EAS443:3:18:1752:484#0/1  
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+HWI-EAS443:3:18:1752:484#0/1  
``bb]a`aa`aabaaa`a`aa`b^\_\_a`\_]`^aa^\_^]]\_  
@HWI-EAS443:3:18:1778:250#0/1  
GGTGTATTATAGCACCTTGGGTGTCTGACAAGTTGTATTG  
+HWI-EAS443:3:18:1778:250#0/1  
^a¥ba`baa\_]`^a^PUa`\_¥U^a]¥\_`^]`^a^T[ZZ\_[X  
@HWI-EAS443:3:18:19:1658#0/1  
CTGGTATTATCATTTCAGATACACCAGTCCACGATTGCAA  
+HWI-EAS443:3:18:19:1658#0/1  
aa\_ZV^`aaaa`ba`ab`]Ya\_`\_[\_`¥\_\_`a\_`[]^)`\_  
@HWI-EAS443:3:18:213:106#0/1  
GCTCAATTGCTCTTAGCTCCTCATAATCGATGAAATCT  
+HWI-EAS443:3:18:213:106#0/1  
aaaaabbbaa`aaaaaa`a\_\_`\_¥`\_`\_`a\_^\_]¥`^\_^  
@HWI-EAS443:3:18:223:1018#0/1  
GATGAAATCTCCTGGGTAACACGTTCCATTGTCTGAACTA  
+HWI-EAS443:3:18:223:1018#0/1  
]Y\_a`\_W\_baaaaaaaa¥\_Y\_aa]``a\_]`\_aY^aa\_a^`\_  
@HWI-EAS443:3:18:226:1702#0/1  
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+HWI-EAS443:3:18:226:1702#0/1  
a^`^X^]\_`[b`^a^Z¥ZS]]\_a\_`^]a[\_]\_`^T\_`^Z^Y  
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GGGTGGACAGGGATGGTAGATGGATGGTACGGTTATCACC  
+HWI-EAS443:3:18:254:74#0/1  
aab¥ba\_]aaa\_\_a\_U`a^R``¥\_¥]S]W[\_W¥¥VVUUP  
@HWI-EAS443:3:18:258:189#0/1  
CGAGTCATGATTGGGCCATGAACTTGTCTTGGGGAATATC  
+HWI-EAS443:3:18:258:189#0/1  
ab¥`^a\_^baaaaa\_`[^a[`]\_\_a^¥``aZY[¥\_^^\_]`  
@HWI-EAS443:3:18:310:1623#0/1  
AAGCCAGTTAAAAACAATGCCAAGGAAATTGGAAACGGC  
+HWI-EAS443:3:18:310:1623#0/1  
[]L)`[`]aaY`V``\_a`¥¥W]XR¥\_U]YXY]TU¥\_W[[Y  
@HWI-EAS443:3:18:333:727#0/1  
CGGTTTCATTGAAGGGGGTGGACAGGGATGGTAGATGGA  
+HWI-EAS443:3:18:333:727#0/1  
aaaZaa`Waaa]aa][aUNaa^[UaX`V]`XDX\_]Y^^^  
@HWI-EAS443:3:18:398:1801#0/1  
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+HWI-EAS443:3:18:398:1801#0/1  
abaaaaaa¥\_V`a]a^ZW`a`aba`\_]M¥M]a`]]a]Y¥¥  
@HWI-EAS443:3:18:425:785#0/1  
GCTGCTTTGAATTTTACCACAAATGCGATAACACGTGCAT  
+HWI-EAS443:3:18:425:785#0/1  
aaaaaa^aaaaaa\_aa¥a\_`Za`\_aa\_\_^Y`a`aP`]]`  
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+HWI-EAS443:3:18:445:1133#0/1  
^S[^`^`[]VH[a¥TYXQZY\_a¥Z[^]Z`X\_XX¥^]OW^[  
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+HWI-EAS443:3:18:460:1596#0/1  
\_ab`aVb\_Xbab[aabaabaabba\_a\_b]aa`\_`a`aaN\_  
@HWI-EAS443:3:18:462:945#0/1  
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+HWI-EAS443:3:18:462:945#0/1  
a`\_]ab¥aaa`aaVa]`H\_a¥aaYV^¥S`U\_Y]Y\_aVUOU  
@HWI-EAS443:3:18:538:258#0/1  
GTCTCTATCAGAATGCAGATGCATATGTTTTTGTGGGGAC  
+HWI-EAS443:3:18:538:258#0/1  
a[aaaaaaabaaa`aaaa\_\_a]`\_`aa\_\_a`aa]```\_\_]  
@HWI-EAS443:3:18:569:435#0/1  
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+HWI-EAS443:3:18:569:435#0/1  
ab`a\_b``aaaaaY[Z```¥Y]¥\_a]a`\_aaa`\_\_Z`S[\_  
@HWI-EAS443:3:18:629:64#0/1  
CGGGAAACTATGCAAATAAGAGGGGTAGCCCCATTGCAT  
+HWI-EAS443:3:18:629:64#0/1  
abaaaaaa`aaa^```\_aa``\_\_\_^X`a\_]X^^]Y\_WY]

@HWI-EAS443:3:18:636:1318#0/1  
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+HWI-EAS443:3:18:636:1318#0/1  
ab`ba`WU`\_a`UR]a\_^[\_R¥`\_a]a¥`]XRGaTK\_[^^  
@HWI-EAS443:3:18:654:751#0/1  
GGGACATTCTCAATCCTGTGGCCAGTCTCAATTTTGTGC  
+HWI-EAS443:3:18:654:751#0/1  
aab`aabababbabaaaa\_aV`^a`V^¥UW^`\_`\_^][N  
@HWI-EAS443:3:18:69:192#0/1  
GCAGCCGACCTGAAGAGCACACAGAATGCCATTGACGAGA  
+HWI-EAS443:3:18:69:192#0/1  
a\_`X]\_Y\_^a^a0`\_\_¥R]Z]\_[NFY¥^PNMJL¥WT^XXG  
@HWI-EAS443:3:18:709:345#0/1  
GCACGTGTTATCGCATTGTGGTAAAATCAAAGCAGCCG  
+HWI-EAS443:3:18:709:345#0/1  
a`\_a[[b`aa]W^¥0¥aZY]aaWaa]V`UH¥^``¥\_`^Y\_  
@HWI-EAS443:3:18:715:796#0/1  
AGCAAGAAGTTCAAGCCGAAATAGCAATAAGACCCAAAG  
+HWI-EAS443:3:18:715:796#0/1  
aaaabaa\_a]\_`b`aa]aa^Yaa]a^`\_\_a\_`\_^\_^\_¥\_X  
@HWI-EAS443:3:18:783:827#0/1  
AAGAACTTATATGAAAAGGTAAGAAGCCAGTAAAAACA  
+HWI-EAS443:3:18:783:827#0/1  
a\_ba\_bbbab`aa¥]aaZ`^`\_a\_]a``aa`\_]\_Za\_\_``  
@HWI-EAS443:3:18:839:1105#0/1  
GGTGGACAGGGATGGTAGATGGATGGTACGGTTATCACCA  
+HWI-EAS443:3:18:839:1105#0/1  
^aQZa`\_^\_¥T^`Z\_N¥a`\_a[\_L``\_`[[S]`a\_\_S^QX\_  
@HWI-EAS443:3:18:941:204#0/1  
CAGCCGACCTGAAGAGCACACAGAATGCCATTGACGAGAT  
+HWI-EAS443:3:18:941:204#0/1  
abaa`baa\_ab^`b`a^a^`\_aa^\_\_¥\_\_]a`^¥`^\_]\_  
@HWI-EAS443:3:18:942:231#0/1  
GTGGGGACATCAAGATACAGCAAGAAGTTCAAGCCGAAA  
+HWI-EAS443:3:18:942:231#0/1  
\_R[TPUURUSMZV`]\_\_]^X]]\_\_PRU[VYV]RHYQVVV  
@HWI-EAS443:3:18:965:663#0/1  
CTGCTTTGAATTTTACCACAAATGCGATAACACGTGCATG  
+HWI-EAS443:3:18:965:663#0/1  
abbbbbbababbbbbbaabaa\_aaaaabaa^^b\_`\_aaa`a  
@HWI-EAS443:3:18:978:160#0/1  
CAGGATATGCAGCCGACCTGAAGAGCACACAGAATGCCAT  
+HWI-EAS443:3:18:978:160#0/1  
ab`UK``W]bbaa`P¥X`Raaaa^aYa¥a]^`\_]\_\_^RV\_V  
@HWI-EAS443:3:18:996:267#0/1  
GCCCCATTGCATTTGGGTAAATGTAACATTGCTGGCTGGA  
+HWI-EAS443:3:18:996:267#0/1  
aa\_`^]S\_\_\_\_^\_\_¥\_``U^¥\_¥`Y¥¥U¥^Y^W¥^¥T¥¥WT  
@HWI-EAS443:3:19:1014:1426#0/1  
GGAACGTGTTACCCAGGAGATTTTCATCGATTATGAGGAGC

+HWI-EAS443:3:19:1014:1426#0/1  
`ba`abaaa\_baa`aaa]aaaaa\_`\_a``a`a\_`^\_aa\_  
@HWI-EAS443:3:19:1016:72#0/1  
GTTGGTCAGCACTAGTAGATGGATGGTGAATGCCCCATAG  
+HWI-EAS443:3:19:1016:72#0/1  
aZ]a\_Z[[[a[`¥`M^W[a¥]a\_W\_a\_V`\_V¥]SWVVVYV¥  
@HWI-EAS443:3:19:1047:489#0/1  
GATGAAATCTCCTGGGTAACACGTTCCATTGTCTGAACTA  
+HWI-EAS443:3:19:1047:489#0/1  
^Z\_^`YVSX^`¥Rba\_XaaNV¥ZZ\_```a`a][^R]^^^  
@HWI-EAS443:3:19:1066:1704#0/1  
TACTTTGTTAGTAATCTCGTCAATGGCATTCTGTGTGCTC  
+HWI-EAS443:3:19:1066:1704#0/1  
Y^K^Zab`ba[]abbabab[`aa`][baaVaa^[\_`¥aS  
@HWI-EAS443:3:19:1083:387#0/1  
GTGGGGACATCAAGATACAGCAAGAAGTTCAAGCCGGAAA  
+HWI-EAS443:3:19:1083:387#0/1  
a]aa\_\_`^\_\_`a```\_\_^a`\_`a`\_\_aW^]`^^V¥`]]^\_  
@HWI-EAS443:3:19:1094:1245#0/1  
GATAACCGTACCATCCATCTACCATCCCTGTCCACCCCC  
+HWI-EAS443:3:19:1094:1245#0/1  
a]a``ba]aabbbaa`a]aaaS\_\_[a\_¥`\_ZU`[Y\_a\_\_S\_  
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CGGCTGCTTTGAATTTTACCACAAATGCGATAACACGTGC  
+HWI-EAS443:3:19:1139:1152#0/1  
aba`ba]^baVva`abb\_¥`aaVb\_aa]a[bba`a`a^b`  
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GCCAGTTAAAAACAATGCCAAGGAAATTGAAACGGCTG  
+HWI-EAS443:3:19:1246:1134#0/1  
\_abbaabbbb\_abbabbbbbbabbabbbbabbaaaa\_  
@HWI-EAS443:3:19:1247:1474#0/1  
GAAATTGAAACGGCTGCTTTGAATTTTACCACAAATGCG  
+HWI-EAS443:3:19:1247:1474#0/1  
aaX^aaaa¥aa`aa`\_^VZ¥TRL[QTW^TNQJO[\_]BBBB  
@HWI-EAS443:3:19:1250:287#0/1  
CACGATTGCAATACAAC TTGTCAGACACCCAAGGGTGCTA  
+HWI-EAS443:3:19:1250:287#0/1  
abaabbbbbbbbaabbabbbb¥baaaaa\_\_a`baa]`\_a\_  
@HWI-EAS443:3:19:1275:1102#0/1  
CGGCTGCATATCCTGACCCCTGCTCATT TTTGATGGTGATA  
+HWI-EAS443:3:19:1275:1102#0/1  
`b]bab[\_bba\_bab[\_Sb]]]`[\_aa`aa^a\_\_a]aa¥Y  
@HWI-EAS443:3:19:1319:1235#0/1  
TCAAGATACAGCAAGAAGTTCAAGCCGGAAATAGCAATAA  
+HWI-EAS443:3:19:1319:1235#0/1  
aaaabbaaba^abba^b\_`]baa]\_a`\_\_Z\_``]`\_a\_\_  
@HWI-EAS443:3:19:1343:88#0/1  
CCGTTACACCTTTGTTTCGAGTCATGATTGGGCCATGAACT  
+HWI-EAS443:3:19:1343:88#0/1  
YWa\_bbbaaa\_`abWabaaa`¥¥aa]aaa^^`T```U\_]]



@HWI-EAS443:3:19:1406:605#0/1  
CACGTGTTATCGCATTTGTGGTAAAATTCAAAGCAGCCGT  
+HWI-EAS443:3:19:1406:605#0/1  
^Z\_^[\_Z¥`S¥V^baY``\_I`Ya[\_^UYL]]T¥\_ZEYR  
@HWI-EAS443:3:19:1456:1007#0/1  
CTTCCTCTGAGTATTTTGGGTAGTCATAAGTCCCATTTTT  
+HWI-EAS443:3:19:1456:1007#0/1  
[a[]X\_]``a`Z`bb]]`^aW[\_Z\_Ya\_¥[^YYX``[a``  
@HWI-EAS443:3:19:1494:1342#0/1  
CAGCCGTTTCCAATTTCTTGGCATTGTTTTTAACTGGC  
+HWI-EAS443:3:19:1494:1342#0/1  
XV\_`U^PH\_¥`T\_]W\_VT\_aaVSW^`bb]a^^b]HY`UHM  
@HWI-EAS443:3:19:1613:1254#0/1  
AGCCAGTTAAAAACAATGCCAAGGAAATTGGAAACGGCT  
+HWI-EAS443:3:19:1613:1254#0/1  
`a\_aabaaaa\_a``\_aa`a¥¥¥\_a`\_^aa¥YW[\_\_\_]N`V`  
@HWI-EAS443:3:19:1661:1210#0/1  
GCCAGTTAAAAACAATGCCAAGGAAATTGGAAACGGCTG  
+HWI-EAS443:3:19:1661:1210#0/1  
aaaaa```aaaab\_a\_baaa`aba`````a\_\_\_\_\_]a\_X`\_  
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+HWI-EAS443:3:19:1685:557#0/1  
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GCTCCTCATAATCGATGAAATCTCCTGGGTAACACGTTCC  
+HWI-EAS443:3:19:216:284#0/1  
aab`abaaaaaa\_aa`aaaaaa\_aa`a[``^`\_aa`^X\_\_`  
@HWI-EAS443:3:19:230:1025#0/1  
GGGACATCAAGATACAGCAAGAAGTTCAAGCCGAAATAG  
+HWI-EAS443:3:19:230:1025#0/1  
`a[W``aa^a]bTaabaaaa\_\_aaG^^aa`\_a\_a`a]V\_a  
@HWI-EAS443:3:19:287:1910#0/1  
ATGGCATTCTGTGTGCTCTTCAGGTCGGCTGCATATCCTG  
+HWI-EAS443:3:19:287:1910#0/1  
aaXabbT``¥]^]TIYaY[T`\_TOS`^N^¥¥`aX`]G¥¥B  
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GACACCAAGGGTGTATAAACACCAGCCTCCCATTTTCAG  
+HWI-EAS443:3:19:305:1865#0/1  
\_baabbbbb`aaY]abaabaaaaaaaaa\_\_\_^aaa`aa`  
@HWI-EAS443:3:19:305:531#0/1  
AAATTTTTGTAGAAGCTTTTTGCTCCAGCATGAGGACATG  
+HWI-EAS443:3:19:305:531#0/1  
¥\_abbbbbbbabb]0]\_aabaa`Y]aaa````]\_\_aaSVa[[  
@HWI-EAS443:3:19:312:469#0/1  
AGAAGTTCAAGCCGAAATAGCAATAAGACCCAAAGTGAG  
+HWI-EAS443:3:19:312:469#0/1  
`\_QHZ]¥`b\_\_`aa\_^^S`^`X`^\_^UWUVV[X^]UO^Z  
@HWI-EAS443:3:19:314:1606#0/1  
AGCCAGTTAAAAACAATGCCAAGGAAATTGGAAACGGCT



@HWI-EAS443:3:19:506:575#0/1  
GGGACATCAAGATACAGCAAGAAGTTCAAGCCGGAAATAG  
+HWI-EAS443:3:19:506:575#0/1  
aaabaaa`\_`bb^ababa`b`a]b`Zab\_abab\_PU`aa\_  
@HWI-EAS443:3:19:508:86#0/1  
TGTTAGTAATCTCGTCAATGGCATTCTGTGTGCTCTTCAG  
+HWI-EAS443:3:19:508:86#0/1  
ab`aaa\_a`a\_a]b¥[a^¥^\_Z\_\_\_^^\_¥¥W`UY¥^YV¥]  
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GCATATCCTGACCCCTGCTCATTTTTGATGGTGATAACCGT  
+HWI-EAS443:3:19:50:172#0/1  
¥`bbbbbaabaa\_\_Z\_baaa]a```aa^aaSaa^[aa\_VW  
@HWI-EAS443:3:19:524:1119#0/1  
TGGGGACATCAAGATACAGCAAGAAGTTCAAGCCGGAAAT  
+HWI-EAS443:3:19:524:1119#0/1  
aaabaaaaaaaa`]a^aaaaa\_\_aX^`a\_\_`^\_W\_]\_^  
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GCTGGCTGGATCCTGGGAAATCCAGAGTGTGAATCACTCT  
+HWI-EAS443:3:19:532:1935#0/1  
`bbbbbb`aaba\_^a]abb\_\_`b`a^Z\_N^aaa\_ZQ\_¥`  
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GGGACATCAAGATACAGCAAGAAGTTCAAGCCGGAAATAG  
+HWI-EAS443:3:19:562:968#0/1  
]L[\_X¥TV^`a`^^a]`¥`a][YYQX``X¥TN¥UX¥VV``  
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+HWI-EAS443:3:19:577:1338#0/1  
a`a]Naaaa`a\_\_`a`[````ZZX\_\_`^\_\_`^^`\_\_\_\_`\_  
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GCTGCTTTGAATTTTACCACAAATGCGATAACACGTGCAT  
+HWI-EAS443:3:19:611:1569#0/1  
¥]¥WJY[R^X\_Za]a]]Taaaa`\_`\_a^\_]\_]YXL]TaU  
@HWI-EAS443:3:19:642:716#0/1  
GCAGCCGACCTGAAGAGCACACAGAATGCCATTGACGAGA  
+HWI-EAS443:3:19:642:716#0/1  
a\_K`^Y[M\_]ab`¥W¥aTa]`^ba¥``^\_H^XW`¥`a\_a\_  
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TCGAGTCATGATTGGCCATGAACTTGTCTTGGGGAATAT  
+HWI-EAS443:3:19:661:252#0/1  
`\_``a\_b`aZJ^a`aa`¥\_`a\_]\_a]a^`^`a``^U]]^\_  
@HWI-EAS443:3:19:671:1715#0/1  
GGGGCATTACCATCCATCTACTAGTGCTGACCAACAAAG  
+HWI-EAS443:3:19:671:1715#0/1  
\_XZ`^````abbbb¥a]b^a`aa`a`Z`a¥Z`¥\_aa\_aaa\_  
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GCCGGTTTCATTGAAGGGGGTGGACAGGGATGGTAGATG  
+HWI-EAS443:3:19:673:255#0/1  
a\_bab]aZ]RbbZWUbaa`\_WNa¥aY[^a]G\_aaPVM¥P\_  
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TGTCACCAAAAAACATATGCATCTGCATTCTGATAGAGA

+HWI-EAS443:3:19:692:99#0/1  
Xbb\_aaaaaaab\_aa`\_`[a^aaYaa[\_aa\_`a\_\_`[^\_¥  
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ATTTGGGGCCATTGCCGTTTCATTGAAGGGGGTGGACA  
+HWI-EAS443:3:19:696:567#0/1  
\_a\_[Z]``aa`a`a`a\_V\_X`ZHNZ^OD¥^¥`]b\_H]bKDK  
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CATCCATCTACTAGTGCTGACCAACAAAGTCTCTATCAGA  
+HWI-EAS443:3:19:69:999#0/1  
¥QT`]\_\_`a`XTGWZ^OZX\_]a[\_[Z¥RUV¥T[RHSLY  
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+HWI-EAS443:3:19:725:1186#0/1  
abb^a`bbaa`ab]baaa]aaaa`aaaaaa`aa\_aa\_Z  
@HWI-EAS443:3:19:748:550#0/1  
CTGTGTATTCATCTTTTCAATAACAGAATTTACTTTGTTA  
+HWI-EAS443:3:19:748:550#0/1  
abb\_^P`baaaaabbbaab`ba\_\_b`V`abaaaabaa\_aa  
@HWI-EAS443:3:19:762:1095#0/1  
TATCAGAATGCAGATGCATATGTTTTGTGGGGACATCAA  
+HWI-EAS443:3:19:762:1095#0/1  
`b`a]a^W^^^`^`^W]a`^a[`a\_^a]a`a`aV¥\_\_[  
@HWI-EAS443:3:19:774:110#0/1  
AAAGAAGTCCTCGTGCTATGGGGCATTACCATCCATCTA  
+HWI-EAS443:3:19:774:110#0/1  
a`\_]\_]\_YOTWX]UKLZ[^Y¥]¥X^RUUNNK^BBBBBBBB  
@HWI-EAS443:3:19:816:759#0/1  
AATTGGAAACGGCTGCTTTGAATTTTACCACAAATGCGAT  
+HWI-EAS443:3:19:816:759#0/1  
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TAGATTTCCAGTTGCTTCGAATGTTATTTTGTCTCCCGGC  
+HWI-EAS443:3:19:850:834#0/1  
Vb\_L]]S¥aYY^^][^]aa^VaVa\_]\_HW]^]^aa[\_`\_  
@HWI-EAS443:3:19:872:1128#0/1  
AGCCAGTTAAAAACAATGCCAAGGAAATTGGAACGGCT  
+HWI-EAS443:3:19:872:1128#0/1  
¥Ya`][N^WYW¥aa]T[PaX`aZ`\_\_ZPS^P`S[[X]^BB  
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GCCGTTTCATTGAAGGGGGTGGACAGGGATGGTAGATG  
+HWI-EAS443:3:19:879:856#0/1  
abbbba^abaabbaabaaba¥aab\_aaaa^\_aaSa^`]^  
@HWI-EAS443:3:19:891:1095#0/1  
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+HWI-EAS443:3:19:891:1095#0/1  
¥``¥abaabaa^ab`^]`baaaaaa`aaaa`aa\_\_a`a  
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AAATTGGAACGGCTGCTTTGAATTTTACCACAAATGCGA  
+HWI-EAS443:3:19:901:1224#0/1  
`a¥\_[`^]US`\_baaWY^aXP]WN]a]IHS[^`a^BBBB

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+HWI-EAS443:3:19:906:1808#0/1  
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@HWI-EAS443:3:19:961:55#0/1  
CCCCAGGGAGACTACCAATGAAGTGGCGACAGTT  
+HWI-EAS443:3:19:961:55#0/1  
abbbbbbbbab`baa^aaa`aaaaaaaa\_aaa\_a^UTa¥`  
@HWI-EAS443:3:1:1023:702#0/1  
GGGACATCAAGATACAGCAAGAAGTTCAAGCCGGAAATA  
+HWI-EAS443:3:1:1023:702#0/1  
^`[[a`abaa]N¥^Saab`a`Y¥aPGX¥Xb[Y`aU`¥BB  
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GAGCTTGCTGTGGAGAGTGATTCACACTCTGGATTTCCCA  
+HWI-EAS443:3:1:1042:118#0/1  
\_aUba¥`bb[bbUbabababbYa`[`b`bbabab^YaB  
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+HWI-EAS443:3:1:1105:1983#0/1  
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+HWI-EAS443:3:1:1161:1332#0/1  
¥ba`a`baabL\_bXaab\_aa`\_S`bX^aWa\_[a\_Waa¥BB  
@HWI-EAS443:3:1:1217:1093#0/1  
CTGGCTGGATCCTGGGAAATCCAGAGTGTGAATCACTCTC  
+HWI-EAS443:3:1:1217:1093#0/1  
\_bbbab`\_b\_Z`baa`a¥Z\_bbabV`\_aa^R\_V^B  
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+HWI-EAS443:3:1:1244:1015#0/1  
]XY][a]aa`\_ZX^\_Z^[\_¥`a¥H`\_0]^\_\_RV¥^]BBB  
@HWI-EAS443:3:1:1262:1739#0/1  
CACCATCCATCTACTAGTGCTGACCAACAAAGTCTCTATC  
+HWI-EAS443:3:1:1262:1739#0/1  
abUYbb`Xb`QabW`a`\_aGaaaa¥ba[b`aa^YaGaabB  
@HWI-EAS443:3:1:1297:1966#0/1  
GACAATGGAACGTGTTACCCAGGAGATTCATCGATTATG  
+HWI-EAS443:3:1:1297:1966#0/1  
a`a`ba`bbWa\_ba^bRTVabaab`b`]aYb`a`^bB  
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GAATTTACTTTGTTAGTAATCTCGTCAATGGCATTCTGTG  
+HWI-EAS443:3:1:1299:1251#0/1  
`Ya]^aa`Va\_U[aVbTbX[P¥UbZ`\_a`aa^YGYR]`BB  
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+HWI-EAS443:3:1:1314:776#0/1  
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ATCTCGTCAATGGCATTCTGTGTGCTCTCAGGTCGGCTG  
+HWI-EAS443:3:1:1338:1330#0/1  
a``^]b[Xa\_\_`Sa\_\_`\_V^[aT`Y\_]WUT\_WBBBBBB  
@HWI-EAS443:3:1:1394:984#0/1  
GTAACATTGCTGGCTGGATCCTGGGAAATCCAGAGTGTGA  
+HWI-EAS443:3:1:1394:984#0/1  
a``WXaab^GZZXM¥\_`W[UX\_aYY¥ZYS¥VY`^`TBBBB  
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+HWI-EAS443:3:1:1410:289#0/1  
aaaa^aa¥`\_a¥aa^\_a¥a\_\_^aa^\_\_ZX\_Z^^\_\_XZBBB  
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+HWI-EAS443:3:1:1413:454#0/1  
abaababab`babaa]a`^aa\_aa``bba^a¥Z^`\_`a]B  
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+HWI-EAS443:3:1:1440:1361#0/1  
aIVZaba^bbaabWbbaaaabbabaaaab[`aab¥I^\_b`  
@HWI-EAS443:3:1:1443:483#0/1  
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+HWI-EAS443:3:1:1443:483#0/1  
a[QZPY\_a]\_`\_\_`W\_a]¥`a\_\_^MZ^^^VTW`YXZ]BB  
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GAATTTCTTTTTTAACTAGCCATATTAATTTTTGTAGA  
+HWI-EAS443:3:1:1477:1469#0/1  
a\_\_aaa^a`aaba`\_\_`a\_\_]¥`aaa`\_\_^a`\_``\_\_\_\_]B  
@HWI-EAS443:3:1:1491:541#0/1  
TAGATTTCCAGTTGCTTCGAATGTTATTTTGTCTCCCGGC  
+HWI-EAS443:3:1:1491:541#0/1  
^aZP¥`TV¥JUa^SZa]V[Y`\_`UP`YaZ[OTBBBBBBBB  
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+HWI-EAS443:3:1:1724:964#0/1  
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@HWI-EAS443:3:1:1741:652#0/1  
CAACAGACACTGTAGACACAGTACTAGAAAAGAATGTAAC  
+HWI-EAS443:3:1:1741:652#0/1  
`bb\_ba¥I`]^`^`^aaS\_^XY\_\_G\_a[\_aa^[Q¥`PBBBB  
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GCTGCTTTGAATTTTACCACAAATGCGATAACACGTGCAT  
+HWI-EAS443:3:1:203:50#0/1  
a\_aa\_a`\_b`\_`aaa\_]^[`\_\_\_\_a^\_^\_[]^]`Z`BBB  
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+HWI-EAS443:3:1:213:2010#0/1  
aaaaaX\_aaY`aa\_\_TRDZSa`a\_¥^\_aZ[Z^G]aLNBBB

@HWI-EAS443:3:1:221:1025#0/1  
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+HWI-EAS443:3:1:221:1025#0/1  
aaa`a`aa\_a^\_U]a^`\_\_\_^\_^\_\_\_`]^`^\_`Z`\_U`\_`BB  
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TGAATTTCTTTTTTAACTAGCCATATTAATTTTTGTAG  
+HWI-EAS443:3:1:273:372#0/1  
aa\_`aa`[^`aaaaa`^`\_`[P^`\_`\_`a`\_`\_`a`\_`^`B  
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TCACCATCCATCTACTAGTGCTGACCAACAAAGTCTCTAT  
+HWI-EAS443:3:1:313:377#0/1  
a\_a[FY¥T¥a`]Z^]^`XV[X^`^^]LT]Q`^^^GZ[\_BBB  
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GCCAGCAATGTTACATTTACCCAAATGCAATGGGGCTACC  
+HWI-EAS443:3:1:375:478#0/1  
aa]aaa`aa`aV`\_\_\_aa^]a`\_\_\_\_\_`^^]^`\_`[V^BBB  
@HWI-EAS443:3:1:400:623#0/1  
GCCAGTTAAAAACAATGCCAAGGAAATTGGAAACGGCTG  
+HWI-EAS443:3:1:400:623#0/1  
aTL]a`\_a`\_]W^^`\_]a^X¥[^`X`^^`^^]]ZBBBBB  
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GGGGACATCAAGATACAGCAAGAAGTTCAAGCCGAAATA  
+HWI-EAS443:3:1:422:554#0/1  
aa`aa`a`\_aaa`a`\_aaaabba`b¥^`\_`a`^b`a`\_aaB  
@HWI-EAS443:3:1:42:670#0/1  
CTGAAATGGGAGGCTGGTGTATAGCACCCCTGGGTGTC  
+HWI-EAS443:3:1:42:670#0/1  
`bba`aaba¥]b`\_aaN`R`\_`\_ZIVa[\_`^[\_`aBBBB  
@HWI-EAS443:3:1:430:1288#0/1  
ATCAGAATGCAGATGCATATGTTTTGTGGGACATCAAG  
+HWI-EAS443:3:1:430:1288#0/1  
aa`babb`\_`\_¥`aabaab`a`\_ab`aaa`\_aaaQa`a`\_Oa`\_B  
@HWI-EAS443:3:1:463:1328#0/1  
ACTTGTGACACACCAAGGGTGCTATAAACACCAGCCTCC  
+HWI-EAS443:3:1:463:1328#0/1  
aYI^]aYUYQX`\_aaaIaa`0a^^aa`\_]`\_`[a[G[YGG`\_BB  
@HWI-EAS443:3:1:496:392#0/1  
GGGACATCAAGATACAGCAAGAAGTTCAAGCCGAAATAG  
+HWI-EAS443:3:1:496:392#0/1  
aaa`\_`\_Z`\_`\_`\_`]^`a^`a`\_`[¥NOX`\_`\_ZZ`\_`\_`]Z`\_BB  
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+HWI-EAS443:3:1:49:1404#0/1  
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@HWI-EAS443:3:1:562:631#0/1  
GTGGGACATCAAGATACAGCAAGAAGTTCAAGCCGAAA  
+HWI-EAS443:3:1:562:631#0/1  
a`baaa`^`\_`^`\_`\_`\_`\_`a`Uaaa`\_`aW^Ra¥`\_ZV`]]^B  
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GGGGTGGACAGGGATGGTAGATGGATGGTACGGTTATCAC

+HWI-EAS443:3:1:608:888#0/1  
a\_a[aa`\_\_\_\_`\_¥`\_W`\_`^¥^\_^\_Y^W\_VW¥BBBBB  
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TGAGCTCAATTGCTCTCTTAGCTCCTCATAATCGATGAAA  
+HWI-EAS443:3:1:662:432#0/1  
ab\_aaa\_aaa`baa`\_`aa`\_a]aa^aaaa\_Sa\_a\_``B  
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AGCCAGTTAAAAACAATGCCAAGGAAATTGGAAACGGCT  
+HWI-EAS443:3:1:695:369#0/1  
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+HWI-EAS443:3:1:818:1314#0/1  
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AATGGAACGTGTTACCCAGGAGATTTTCATCGATTATGAGG  
+HWI-EAS443:3:1:908:1868#0/1  
aa\_\_`¥a]aG^^a`]OG\_\_^\_]\_¥^\_R¥^0^VZ]]V]BBB  
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CCTCTGAGTATTTTGGGTAGTCATAAGTCCCATTTTTGAC  
+HWI-EAS443:3:1:961:372#0/1  
^^`]bbbb`bbbbbbbb\_bbaabbaaaa\_[`baababbbB  
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+HWI-EAS443:3:1:962:495#0/1  
abbb`b\_aab\_baabaab\_aaY]Vaaba\_`aaaa`a\_^aB  
@HWI-EAS443:3:20:1027:929#0/1  
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+HWI-EAS443:3:20:1027:929#0/1  
aaaaaabQaaaaaabaaaaa\_a`Z^a`a\_a\_a\_a¥a¥`\_`  
@HWI-EAS443:3:20:1064:550#0/1  
GCCATGAACCTGTCTTGGGAATATCTCAAACCTTTCAA  
+HWI-EAS443:3:20:1064:550#0/1  
a\_Z¥\_W]]RU`a¥\_a]Z\_] [ZT¥R^H^Z^^^XY\_]Y] []  
@HWI-EAS443:3:20:1098:1241#0/1  
CAATGTAGGACCATGAGCTTGCTGTGGAGAGTGATTCACA  
+HWI-EAS443:3:20:1098:1241#0/1  
aaaaTJY¥\_aa`baa¥\_aa`\_^a^^aaZ`\_aW`\_\_ZQ\_W]  
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+HWI-EAS443:3:20:1149:1287#0/1  
ab¥Z¥Z[¥^\_¥WT^\_HS[`Y`XUZa``ZZLW]^`¥`X` [0  
@HWI-EAS443:3:20:1208:363#0/1  
ATCCTGGGAAATCCAGAGTGTGAATCACTCTCCACAGCAA  
+HWI-EAS443:3:20:1208:363#0/1  
aa`aaaa`\_\_`aa`\_\_a\_a¥a]aaa\_V\_¥`U[¥¥\_¥¥¥Y¥¥  
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+HWI-EAS443:3:20:1210:607#0/1  
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@HWI-EAS443:3:20:1234:1376#0/1  
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+HWI-EAS443:3:20:1234:1376#0/1  
`^XQXUHR]PWXVOZW^WSQ[NPLYNJVYYZX¥RUSNYST  
@HWI-EAS443:3:20:1235:1084#0/1  
GTGTTACCCAGGAGATTTTCATCGATTATGAGGAGCTAAGA  
+HWI-EAS443:3:20:1235:1084#0/1  
^`QVX`^]Y`[^U\_\_Q]]H¥¥Y]¥\_\_Y¥YNW\_VXR^[UQR  
@HWI-EAS443:3:20:1300:902#0/1  
GGGAGACAAAATAACATTCTGAAGCAACTGGAAATCTAGTG  
+HWI-EAS443:3:20:1300:902#0/1  
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@HWI-EAS443:3:20:1335:1070#0/1  
GCCGGTTTCATTGAAGGGGGTGGACAGGGATGGTAGATG  
+HWI-EAS443:3:20:1335:1070#0/1  
a¥]a]YW¥XZ`^¥NS]\_¥]RYTYYPSSYY[WW[WKR[WS[  
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+HWI-EAS443:3:20:1371:1808#0/1  
\_babVZaZ`V`a`Xb`aaYaZ\_[[^`a\_aaYNW[\_Z\_\_Z  
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+HWI-EAS443:3:20:1403:1432#0/1  
a`aaaa`a]\_ba`a\_aWaaa\_]`\_]\_¥^aaZ`^^^]]\_\_  
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aa\_abb]abababbabbaa`\_aa`\_`\_aa\_a`a`W\_a`\_`  
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AAGAAATAGATGGGGTAAAGCTGGAATCAACAAGGATTTA  
+HWI-EAS443:3:20:1419:581#0/1  
\_¥`ZRP^MSQY`¥YUKVZZWQ^XW]ZRNUSDPPQU[UR]B  
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ACTGTGTATTTCATCTTTTCAATAACAGAATTTACTTTGTT  
+HWI-EAS443:3:20:1467:329#0/1  
T\_`\_]WFO`a`aa`a¥[aSW`aabb]`ZZaa\_V]bba\_``  
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AAGAGAGCAATTGAGCTCAGTGTCATCATTGAAAGGTTT  
+HWI-EAS443:3:20:1510:1492#0/1  
`baa`aa`^aa\_\_aa]`\_aaYa]]`aZa\_\_`a\_\_]a`X\_\_  
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+HWI-EAS443:3:20:1548:556#0/1  
`WO[^]V\_aYaa\_¥¥\_¥`XWGO\_\_]^`^]S¥\_Y]^S¥QQQ  
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TGCTTCCTCTGAGTATTTTGGGTAGTCATAAGTCCCATTT  
+HWI-EAS443:3:20:239:1337#0/1  
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+HWI-EAS443:3:20:243:336#0/1  
aa`aaaaab``aa\_a^Z`\_a`\_\_\_\_^Z\_\_]]Y`^^`^^  
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+HWI-EAS443:3:20:24:155#0/1  
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@HWI-EAS443:3:20:258:1917#0/1  
CTGGTGTATAGCACCTTGGGTGTCTGACAAGTTGTAT  
+HWI-EAS443:3:20:258:1917#0/1  
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+HWI-EAS443:3:20:275:193#0/1  
abaa[¥L\_]aaaaaa\_ab\_aa`¥b`]\_a\_a0Ya`^Z^^\_  
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GGAACGTGTTACCCAGGAGATTTTCATCGATTATGAGGAGC  
+HWI-EAS443:3:20:297:1119#0/1  
aa]]\_aWaQ`a`aaaa^]]`aa\_\_a^`]a^\_\_Z^O  
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GAACTTCTTGCTGTATCTTGATGTCCCCACAAAACATAT  
+HWI-EAS443:3:20:302:1902#0/1  
\_S[¥bUa]abb^b]ba^[aaa]a`aa[MaYWZaaa^a]a¥  
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CATATGCATCTGCATTCTGATAGAGACTTTGTTGGTCAGC  
+HWI-EAS443:3:20:336:1259#0/1  
aaaa`aa`aa^aaaa\_\_a`^`a^`Q]\_\_\_\_`¥\_¥\_ZV\_]¥  
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AGCAACTGGAAATCTAGTGGTACCGAGATATGCATTGCA  
+HWI-EAS443:3:20:341:57#0/1  
`ba^^\_aa]XZ\_aT]a¥S`ZW`¥a\_b`\_Ya\_\_a`ZaU[  
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GAGCAATTGAGCTCAGTGCATCATTGAAAGTTTGAGA  
+HWI-EAS443:3:20:346:1053#0/1  
abaaab\_Z¥abbab\_aTa`aaaa`aaaa`a`a[aaaaa`  
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+HWI-EAS443:3:20:351:1022#0/1  
aa[\_ab]\_U\_\_^`aaaba`aa\_aa`V[]V\_`VHY[aa^a  
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AACAAAGTCTCTATCAGAATGCAGATGCATATGTTTTGT  
+HWI-EAS443:3:20:372:1150#0/1  
aba]YUa\_aaaa^`\_ba\_\_a``````a\_a\_\_^]\_\_`\_V  
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GCTGCTTTGAATTTTACCACAAATGCGATAACACGTGCAT  
+HWI-EAS443:3:20:376:1006#0/1  
a`^aa`^aaa^`]a`¥UZ]QW^\_[XYP UW`¥VYTYOXSTN  
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+HWI-EAS443:3:20:378:1035#0/1  
¥¥b\_`V¥``\_bbaa¥aab¥a`\_] [a\_[LUaa\_Za^\_WJYV

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+HWI-EAS443:3:20:419:1215#0/1  
\_Y\_V\_`WWY\_aab^aZ\_X\_aR\_]`aaY`\_Y`TUQ][OM  
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+HWI-EAS443:3:20:443:1513#0/1  
^\_\_bY`\_]\_\_^\_Y\_]`ZYaYVZ`^]PZYJ\_``a[^``ZYXT  
@HWI-EAS443:3:20:472:588#0/1  
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+HWI-EAS443:3:20:472:588#0/1  
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TGGGGACATCAAGATACAGCAAGAAGTTCAAGCCGAAAT  
+HWI-EAS443:3:20:47:1198#0/1  
aaaaaa`aa\_a`^``aaa`^aa`a\_\_X^aa\_`\_`\_\_\_W^\_  
@HWI-EAS443:3:20:575:1504#0/1  
ATGGTGATAACCGTACCATCCATCTACCATCCCTGTCCAC  
+HWI-EAS443:3:20:575:1504#0/1  
a`]`U^^\_a]\_Y]Saa^]^^``Y`^^YX]Y\$`Y\$TWW^^^S  
@HWI-EAS443:3:20:583:191#0/1  
GGGACATCAAGATACAGCAAGAAGTTCAAGCCGAAATAG  
+HWI-EAS443:3:20:583:191#0/1  
Sa`YKZTT`Y`U[UQYa^`\_aLXULPWaXSJN`ZFNR[P^  
@HWI-EAS443:3:20:596:554#0/1  
ATCTGCATTCTGATAGAGACTTTGTTGGTCAGCACTAGTA  
+HWI-EAS443:3:20:596:554#0/1  
aaa`a`aaa]aa\_a\_a\_a]^`^`a\_a\_\_X\_\_\_\_]\_]`^`\_Y\_  
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+HWI-EAS443:3:20:638:1985#0/1  
ababa\_`]aaa`Xa``ab`\_a^Za\_\_]`[^`\_`^`^^^]  
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+HWI-EAS443:3:20:665:1303#0/1  
aa^`[PXZ¥[\_\_a¥WYWZ¥]Y¥^aY¥T¥VIP]¥¥YTET[O  
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GAATTTCTTTTTTAACTAGCCATATTAATTTTTGTAGA  
+HWI-EAS443:3:20:704:1352#0/1  
]¥a¥\_aaa^`aa\_a\_aaaa\_aa`aab¥`aaa\_aab\_WaaZ  
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+HWI-EAS443:3:20:709:1373#0/1  
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+HWI-EAS443:3:20:714:1357#0/1  
[]`^a¥TQ`V`]^a\_^`^^[a]`[`\_]\_\_¥a¥\_\_X\_`\_Z^  
@HWI-EAS443:3:20:735:100#0/1  
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+HWI-EAS443:3:20:735:100#0/1  
\_N\_a\_¥N¥[a\_W]Y[]¥UVZ`VLNSSYSSQNRJRSSUW  
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+HWI-EAS443:3:20:776:741#0/1  
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+HWI-EAS443:3:20:781:965#0/1  
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+HWI-EAS443:3:20:790:1875#0/1  
a^aa]aa\_`\_`\_\_`^^`^^Z^^¥]YX^Z^UZ^Z¥WWUW]  
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+HWI-EAS443:3:20:80:1644#0/1  
aa\_]`Z`ba\_[U¥NVX¥Y`a^`^]\_a^^`\_`^SZ[S  
@HWI-EAS443:3:20:829:1012#0/1  
GTCAATGGCATTCTGTGTGCTCTTCAGGTCGGCTGCATAT  
+HWI-EAS443:3:20:829:1012#0/1  
a\_\_aaW]^`\_\_V`¥W\_U[Z¥Y\_`¥`W¥V^WTWZ¥V¥¥`V  
@HWI-EAS443:3:20:850:1997#0/1  
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+HWI-EAS443:3:20:850:1997#0/1  
a\_bba\_ab`Zbbba`abab`Xb\_aa\_\_a^^\_U^a]X`aaa  
@HWI-EAS443:3:20:885:85#0/1  
GATGCATATGTTTTTGTGGGACATCAAGATACAGCAAGA  
+HWI-EAS443:3:20:885:85#0/1  
aa]RFJL[¥^)`YZ\_[Qa^^aYYW¥TZX^]`^YT¥YTWZ]]  
@HWI-EAS443:3:20:895:648#0/1  
AGAAGACAAGCATAACGGGAACTATGCAAATAAGAGGG  
+HWI-EAS443:3:20:895:648#0/1  
aaYaa\_aaa`\_`aaa\_a\_\_\_`a\_`\_\_\_\_\_]^U^\_^][\_S]  
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+HWI-EAS443:3:20:897:1109#0/1  
\_bbaaa]babbaaba\_bbba]a¥M\_]a`b^\_\_`^`^`[aaa\_  
@HWI-EAS443:3:20:908:1363#0/1  
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+HWI-EAS443:3:20:908:1363#0/1  
aNabaaQ``]ab^`ba`\_a^\_a¥^^a^^\_]¥Z\_^[XZ\_]`  
@HWI-EAS443:3:20:908:1963#0/1  
ACCTTTTCATATAAGTTCTTCACATTTGAATCGTGGTAGT  
+HWI-EAS443:3:20:908:1963#0/1  
a^\_]`a`Y`\_\_¥¥¥]VY^\_\_`W\_\_\_V[¥\_]\_S`XWWSY

@HWI-EAS443:3:20:909:46#0/1  
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+HWI-EAS443:3:20:909:46#0/1  
abbbababaabbaba`baaa`aab`a`aaaa`^^^`\_] [a\_  
@HWI-EAS443:3:20:930:1191#0/1  
TCCCGTTATGCTTGTCTTCTAGAAGTTAACAGAGTGTGT  
+HWI-EAS443:3:20:930:1191#0/1  
aaaaa\_aa\_]\_a`Y[^`a]`a]^^[W#a]`Xa\_^^X[PSR  
@HWI-EAS443:3:20:931:1020#0/1  
TCAGAATGCAGATGCATATGTTTTTGTGGGGACATCAAGA  
+HWI-EAS443:3:20:931:1020#0/1  
a\_baa#`#a\_RTY\_S\_`#^`#`Xa\_X]W``\_] [^#\_X\_]`  
@HWI-EAS443:3:20:931:1113#0/1  
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+HWI-EAS443:3:20:931:1113#0/1  
abb`bbaabaabbaaa\_aa#] [ `aaa\_a[Taa\_aa\_\_aT\_  
@HWI-EAS443:3:20:947:780#0/1  
GCAAAATTAACAGAGAAGAAATAGATGGGGTAAAGCTGG  
+HWI-EAS443:3:20:947:780#0/1  
a\_\_Z[V`a^abaaa\_a#^`^`a`]a`a]^a\_] [¥XaPZ¥#  
@HWI-EAS443:3:20:978:1527#0/1  
GGGACATCAAGATACAGCAAGAAGTTCAAGCCGGAAATAG  
+HWI-EAS443:3:20:978:1527#0/1  
a#U[WQX[[¥ZX#a]#]\_\_Z\_#PZYZZ`MYFQ]]\_^[XYU  
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GTGTTTATAGCACCTTGGGTGTCTGACAAGTTGTATTGC  
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a#aaa`\_`a\_aa`a\_a`XZ\_V#[^`^`\_#UY]`Y\_V]]Z  
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CAGAGTGTGAATCACTCTCCACAGCAAGCTCATGGTCCTA  
+HWI-EAS443:3:21:1018:1349#0/1  
aabaa\_aaab]a\_b`aaaa`a[aaa\_\_Z\_\_X]^]]^]\_`^  
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+HWI-EAS443:3:21:1052:543#0/1  
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+HWI-EAS443:3:21:1081:637#0/1  
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GTGGGGACATCAAGATACAGCAAGAAGTTCAAGCCGGAAA  
+HWI-EAS443:3:21:1136:404#0/1  
a\_aa]a`\_a`\_`\_a`\_`\_`\_aa`\_`\_`Z]]\_] ^XWa]]^^  
@HWI-EAS443:3:21:1159:767#0/1  
CTTCCTCTGAGTATTTTGGGTAGTCATAAGTCCCATTTTT  
+HWI-EAS443:3:21:1159:767#0/1  
a`aa\_VZaaY[F[]V`WR`\_QZYWWTZ#RQ#^VMY`]\_\_#  
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+HWI-EAS443:3:21:1182:1300#0/1  
aa`]]`^aSabaaYZ`a`aa\_\_[]\_[\_\_Z]`Z^^]\_\_\_\_  
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+HWI-EAS443:3:21:1201:955#0/1  
aYa`a`YaaWa^`N\_aa`^\_aa\_a\_`a[`[WS[WX\_aLRP  
@HWI-EAS443:3:21:1224:251#0/1  
CTCATTGATGGTGATAACCGTACCATCCATCTACCATC  
+HWI-EAS443:3:21:1224:251#0/1  
\_a[^\_\_b[b[¥^¥\_babaaa]a`a¥Xaa\_V`[JT]FJ]aB  
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GCTGGCTGGATCCTGGGAAATCCAGAGTGTGAATCACTCT  
+HWI-EAS443:3:21:1235:203#0/1  
a`a\_]\_¥aaaW¥¥Z¥\_a^^ZVSZ^¥UWVVX¥¥XVS¥UWQW  
@HWI-EAS443:3:21:1272:657#0/1  
TGGAAAGTGTCAAAAATGGGACTTATGACTACCCAAAATA  
+HWI-EAS443:3:21:1272:657#0/1  
abaaba`^b\_\_`aaa`ab`a\_\_a``aaa^aa^Y`a\_a\_`  
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+HWI-EAS443:3:21:1294:340#0/1  
abb]bbbbbb`bbbaaabbaZbaba\_aa^a`abaaaaabV  
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+HWI-EAS443:3:21:1303:186#0/1  
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+HWI-EAS443:3:21:1306:1069#0/1  
\_`baZT¥NN¥a]^`T^]V\_TaaS\_NW`¥^\_QZX¥^^W^Z  
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ATGAAATCTCCTGGGTAACACGTTCCATTGTCTGAACTAG  
+HWI-EAS443:3:21:1397:891#0/1  
abaa\_abaaa¥^aaXW`\_a\_a`¥\_aX\_\_\_\_`]a\_\_\_\_P¥¥]  
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+HWI-EAS443:3:21:1404:1361#0/1  
`a]\_X[[\_YJ]RZW[]Y\_Z]\_]\_^X]S\_ZX\_]WU]\_QKZU  
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+HWI-EAS443:3:21:1414:1258#0/1  
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TGCTGGCTGGATCCTGGGAAATCCAGAGTGTGAATCACTC  
+HWI-EAS443:3:21:1438:1740#0/1  
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GGGATGGTAGATGGATGGTACGGTTATCACCATCAAAAATG  
+HWI-EAS443:3:21:1485:989#0/1  
a```\_a`Yaa````\_``]U`^aZV\_\_\_\_¥¥VQ[^W^\_^^Z[

@HWI-EAS443:3:21:1495:247#0/1  
GCTGGATCCTGGGAAATCCAGAGTGTGAATCACTCTCCAC  
+HWI-EAS443:3:21:1495:247#0/1  
a\_^aa\_a\_\_^¥¥]^\_\_\_\_^X\_\_[\_W^W[Z¥[Q^V[WVRGTW  
@HWI-EAS443:3:21:1518:1593#0/1  
CTTCCTCTGAGTATTTTGGGTAGTCATAAGTCCCATTTTT  
+HWI-EAS443:3:21:1518:1593#0/1  
abbaba`bbbb\_bb`bbabb^ba\_^aaa\_aU`\_^abaaaa  
@HWI-EAS443:3:21:1555:931#0/1  
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+HWI-EAS443:3:21:1555:931#0/1  
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@HWI-EAS443:3:21:159:978#0/1  
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+HWI-EAS443:3:21:159:978#0/1  
]a\_aa`a`\_`S^aa\_a^`¥NR`\_aU[```aW]R^]¥a\_\_[  
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GGACAGGGATGGTAGATGGATGGTACGGTTATCACCATCA  
+HWI-EAS443:3:21:1603:173#0/1  
a¥¥SY¥`^W\_aSWRYUU¥WPLWTVWTUJWWRWPRVSSVWW  
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TATGAATTTCTTTTTTAACTAGCCATATTAATTTTTGT  
+HWI-EAS443:3:21:1715:1401#0/1  
a^\_ZWYa^a\_aa`X¥a\_]\_^Y¥X¥W^\_\_\_\_\_`\_\_`^]XY  
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+HWI-EAS443:3:21:1790:1881#0/1  
aa`\_[YZ^]Wa\_^aZY\_Z^[^W\_¥^[U]^[[a]^]XWZPS  
@HWI-EAS443:3:21:21:1270#0/1  
TCTGAGTATTTTGGGTAGTCATAAGTCCCATTTTTTGACAC  
+HWI-EAS443:3:21:21:1270#0/1  
aa]\_]\_Yaa`a``\_[¥\_aU^^\_a`\_[¥^^^Z`^a¥X[[^^  
@HWI-EAS443:3:21:229:1337#0/1  
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+HWI-EAS443:3:21:229:1337#0/1  
aaa^`\_a\_WDX^``\_¥X\_[WLY^QYYWLSOV\_UNVTVJW[  
@HWI-EAS443:3:21:238:1217#0/1  
CTAGTGCTGACCAACAAAGTCTCTATCAGAATGCAGATGC  
+HWI-EAS443:3:21:238:1217#0/1  
a¥XRJY`Ra`aa¥¥S`Y]\_W`PaYNX¥`\_]YYY¥^\_]Z^\_  
@HWI-EAS443:3:21:248:488#0/1  
GATTGCCCCAGGGAGACTACCAATGAACCTGGCG  
+HWI-EAS443:3:21:248:488#0/1  
\_`a``baabaa^[a`\_¥b`a`aaa[¥a\_]T`aaa[¥Z\_¥`  
@HWI-EAS443:3:21:258:247#0/1  
GCTGCTTTGAATTTTACCACAAATGCGATAACACGTGCAT  
+HWI-EAS443:3:21:258:247#0/1  
\_`aa``aa`a^^]\_a]\_]a`]^`aa\_a]^aa^a\_aXa[`[  
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+HWI-EAS443:3:21:267:1842#0/1  
S\_^bbb\_abbbaabbbaa`bab]M]^\_aaaaaS[\_  
@HWI-EAS443:3:21:269:1771#0/1  
GTTCTATTGGAAAATGAAAGAACTTTGGACTACCACGATT  
+HWI-EAS443:3:21:269:1771#0/1  
a¥\_aaaaa\_aa`a`a`\_]`\_^¥¥]aa\_a`\_^\_a`\_]  
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+HWI-EAS443:3:21:28:1150#0/1  
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+HWI-EAS443:3:21:320:975#0/1  
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+HWI-EAS443:3:21:377:1939#0/1  
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+HWI-EAS443:3:21:380:376#0/1  
]aY\_U\_aa¥PaS]\_a`aXLG`a\_\_[^¥]W[Z`UN]]Y[  
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+HWI-EAS443:3:21:387:495#0/1  
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+HWI-EAS443:3:21:393:1666#0/1  
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+HWI-EAS443:3:21:394:837#0/1  
aaaZab`a`baa^bbbaaaba`aaV\_abXa`\_aa`[a`\_  
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+HWI-EAS443:3:21:455:1038#0/1  
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@HWI-EAS443:3:21:463:1096#0/1  
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+HWI-EAS443:3:21:463:1096#0/1  
a`a`baaaabbb`aa^baabb¥]a`]`a`\_a`Y^YaW\_a  
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+HWI-EAS443:3:21:463:293#0/1  
aab`aXabab[WNX`XVa`\_a\_a]\_a¥`X`\_]\_\_aZ^Y^  
@HWI-EAS443:3:21:495:606#0/1  
CTGGCTGGATCCTGGGAAATCCAGAGTGTGAATCACTCTC  
+HWI-EAS443:3:21:495:606#0/1  
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@HWI-EAS443:3:21:50:1166#0/1  
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+HWI-EAS443:3:21:50:1166#0/1  
aaaaaaaaabaaaa`a`a`aaa`\_`\_`Z`\_`\_`Y`\_`\_`^`  
@HWI-EAS443:3:21:526:1414#0/1  
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+HWI-EAS443:3:21:526:1414#0/1  
a]^H`^WS^T`\_]`\_RL`^`\_]`^Y`^YPTVY[S[Z\_NNX  
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+HWI-EAS443:3:21:572:222#0/1  
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+HWI-EAS443:3:21:58:352#0/1  
aa¥`aTbbb^aababb]^ab^¥aab^^^\_ab\_aaaaa^U¥  
@HWI-EAS443:3:21:622:661#0/1  
AGGAAATTCATACCCAAAGCTCAGCAAATCCTACATTAAT  
+HWI-EAS443:3:21:622:661#0/1  
abaaaababaaa]^aaaaa`\_`aa^aX`^`\_`\_`aa^`\_`¥a  
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GCTCCTCATAATCGATGAAATCTCCTGGGTAACACGTTCC  
+HWI-EAS443:3:21:624:488#0/1  
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GGAGATTTTCATCGATTATGAGGAGCTAAGAGAGCAATTGA  
+HWI-EAS443:3:21:62:1239#0/1  
^^aa]^aaaa\_a`\_]`\_]X`]Za\_U¥TZ¥]U]Z^^¥^`]VPV  
@HWI-EAS443:3:21:644:1070#0/1  
ATGGCATTCTGTGTGCTTTCAGGTCGGCTGCATATCCTG  
+HWI-EAS443:3:21:644:1070#0/1  
[¥]^]aaab¥\_V][]^`\_Y`\_`^]VUaZ`\_`\_`^`[`[^Z^YQ  
@HWI-EAS443:3:21:664:385#0/1  
GAAACTGATTGCCCCAGGGAGACTACCAGTACCAATGAA  
+HWI-EAS443:3:21:664:385#0/1  
a\_aa`aaa`\_`aaaa`\_`aaa^^`a^a`\_`\_`a¥`\_`Z`\_`\_`a`\_`\_`  
@HWI-EAS443:3:21:706:1731#0/1  
AGCCCCATTGCATTTGGGTAATGTAACATTGCTGGCTGG  
+HWI-EAS443:3:21:706:1731#0/1  
`¥¥`\_`\_`a`\_`bT`\_`\_VZ`aVa`]UYWa`\_`^¥[YV`\_]X^[]V  
@HWI-EAS443:3:21:742:1322#0/1  
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+HWI-EAS443:3:21:742:1322#0/1  
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+HWI-EAS443:3:21:761:523#0/1  
a\_P`\_][a`a\_U¥^\_¥N¥ZZHY[UZ^XS[VVBVVVVVVVV  
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+HWI-EAS443:3:21:765:648#0/1  
Z^aXYUKSZ[¥aVbbba]H\_YJ`\_a]]`¥a^WGX^`FJQY  
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ACAAGTTCATGGCCAATCATGACTCGAACAAAGGTGTAA  
+HWI-EAS443:3:21:786:1605#0/1  
a\_\_a\_Va`a[[]\_\_ZZ^^]]^\_YX]¥]XX¥YZU^RXX]B  
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+HWI-EAS443:3:21:793:765#0/1  
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@HWI-EAS443:3:21:813:1171#0/1  
CAGCCGACCTGAAGAGCACACAGAATGCCATTGACGAGAT  
+HWI-EAS443:3:21:813:1171#0/1  
^ZZ`TV¥X]\_b][\_N]RY[]T\_a\_W\_\_a]\_Z```U`X\_\_[  
@HWI-EAS443:3:21:820:1116#0/1  
CTGGTGTATCTGAAATGATAATACCAGATCCAGCATTTCT  
+HWI-EAS443:3:21:820:1116#0/1  
aaaa]aXa` `aa]¥aa`\_aa\_`\_\_^a\_^]]\_a\_\_`\_] ^Z\_  
@HWI-EAS443:3:21:83:1408#0/1  
TGAATTCCTTTTTTAACTAGCCATATTAATTTTTGTAG  
+HWI-EAS443:3:21:83:1408#0/1  
`¥¥aab`aabaaaa`a`^\_\_ab\_`aaaVa\_a`a`a`\_`^a  
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CACGTGTATCGCATTGTGGTAAAATTCAAAGCAGCCGT  
+HWI-EAS443:3:21:858:1059#0/1  
abb\_\_a`aa]`a\_\_`aaa^aaWbaa`b^P^` `a]`]^]\_W  
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GAGAGCAATTGAGCTCAGTGTCATCATTTGAAAGGTTTGA  
+HWI-EAS443:3:21:860:1322#0/1  
a\_OS¥aa\_aaY]^`aa`a^]]]\_`\_]\_XY\_\_P[]0^Va\_  
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+HWI-EAS443:3:21:886:2007#0/1  
¥`a`ab\_`baaaaaa`a]]`aa\_a`^aaaZa^\_^` [[a¥  
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GCTTCCTCTGAGTATTTGGGTAGTCATAAGTCCCATTTT  
+HWI-EAS443:3:21:907:1498#0/1  
\_\_]Z`S\_\_^aa\_[¥Y^\_`a^aW`¥OV[¥[`]WXYZZZ^`

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aaaaa^aaa¥¥[¥^¥a^PZ[\_¥^[\_V\_S[X`¥¥ZV[N[WX  
@HWI-EAS443:3:21:939:404#0/1  
CCATCATCAACTTTTTTATTTAAATTCTCTATTCTTTTTT  
+HWI-EAS443:3:21:939:404#0/1  
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@HWI-EAS443:3:21:940:290#0/1  
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+HWI-EAS443:3:21:940:290#0/1  
W\_bb]b\_bbbbbbaba`\_^abaaSaab`aabT¥[Z``aaa  
@HWI-EAS443:3:21:987:121#0/1  
TGAGCTCAATTGCTCTTTAGCTCCTCATAATCGATGAAA  
+HWI-EAS443:3:21:987:121#0/1  
aaaa`babaaaa`b]a^aa`a`a`]a^```^`^`\_\_\_\_```^  
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ATCCAGAACTGATTGCCCCAGGGAGACTACCAGTACCA  
+HWI-EAS443:3:21:987:1254#0/1  
aaaaa\_a^W`\_aa`^a`\_]`\_`\_^]\_¥`^W^^\_W^WW^  
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+HWI-EAS443:3:22:1023:1044#0/1  
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+HWI-EAS443:3:22:1029:490#0/1  
a`\_a^^Za]abbbbaa]a^a`\_`aYaa`\_`a^YZSZY`a^  
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+HWI-EAS443:3:22:1051:775#0/1  
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+HWI-EAS443:3:22:1063:1081#0/1  
a`a`aa`aaaa\_\_`a\_\_`a`\_\_\_\_\_`^`\_]`^[FSZ[MPW  
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+HWI-EAS443:3:22:1080:1101#0/1  
a\_aNa\_]`TN[[]\_^] []V¥¥]TXOUQVZW]XXRWXXXYX  
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aU]HM`b^Z]a¥]^[\_]a^`^a^`^]]`ab¥YaY[a[`  
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+HWI-EAS443:3:22:1137:1120#0/1  
\_^\_aba`aa\_\_aaZ^Z`aa]Z]a\_```YYYYV\_^aU\_¥¥  
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+HWI-EAS443:3:22:1140:1972#0/1  
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+HWI-EAS443:3:22:116:826#0/1  
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+HWI-EAS443:3:22:1195:66#0/1  
a[P`[]\_`Z\_V`\_\_\_\_`¥¥\_Z]]X^] ^XXZRRRUSXXRSV^  
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+HWI-EAS443:3:22:1289:1897#0/1  
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+HWI-EAS443:3:22:1415:435#0/1  
a`]]^a]]\_aa]`^`aX¥\_a`^a[`[¥]VVSZW^YYTSZR  
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+HWI-EAS443:3:22:1467:685#0/1  
]a^^\_`Z[W\_¥0Zaa\_V^aTZa[W^\_`\_[W¥OPY[YWa\_^  
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+HWI-EAS443:3:22:1483:1431#0/1  
^`aa`\_0\_bbabab\_`]]`\_\_`aa`bb`aaa`V`]a`aa`  
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+HWI-EAS443:3:22:1563:267#0/1  
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+HWI-EAS443:3:22:1571:561#0/1  
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+HWI-EAS443:3:22:1573:1811#0/1  
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+HWI-EAS443:3:22:1652:649#0/1  
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aba¥aabaabb^aa`a\_[a`a]a`[\_`[¥`\_HZ^^¥\_\_ZW  
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+HWI-EAS443:3:22:1686:1720#0/1  
^]ba\_aa[^aaa]SZa`aab^a`Yaaa`\_a^\_Za\_YMU[Z  
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+HWI-EAS443:3:22:170:517#0/1  
aa`\_aaaaa`aa`a\_\_a`\_\_aa`aa`aYa`\_aaZ\_`\_`]  
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a\_[[U`Z^a`bb]abaabbaQ`baababP^]ZMS`b`UQa  
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XU^aV`a`]`¥`a`\_aa]`^`^TRNP\_V[¥^^YYTU¥\_¥]Z  
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+HWI-EAS443:3:22:311:440#0/1  
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+HWI-EAS443:3:22:350:394#0/1  
abbaabbbabaab^ababaaab^aa`aZ``aa¥\_^`\_`aa  
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+HWI-EAS443:3:22:36:578#0/1  
\_abbbb`baaab`a\_¥\_a\_\_\_\_U`\_Z\_]`\_`a```ZQ]\_Y]  
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+HWI-EAS443:3:22:466:602#0/1  
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+HWI-EAS443:3:22:525:769#0/1  
aXaabaaaa^aaS`a````a\_\_aa\_¥]\_S^¥¥`^^\_]`^W

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+HWI-EAS443:3:22:533:1797#0/1  
abaaaa\_a`aaaaaa]aaa`^aa`aa`^``]\_\_[\_  
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+HWI-EAS443:3:22:589:1316#0/1  
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+HWI-EAS443:3:22:734:1654#0/1  
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+HWI-EAS443:3:22:751:374#0/1  
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+HWI-EAS443:3:22:760:1425#0/1  
\_`b\_S\_b\_V^\_\_`^Wa`UY\_¥YYY[`YV]\_S^WZV^a^]  
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GAGCAATTGAGCTCAGTGTCATCATTGAAAGTTTGAGA  
+HWI-EAS443:3:22:769:916#0/1  
a`a`\_`aa`a^aaaaR^\_\_\_a\_\_`a\_a`^`^YZ\_\_aa`\_`  
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@HWI-EAS443:3:23:1047:1980#0/1  
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+HWI-EAS443:3:23:1047:1980#0/1  
Yb\_\_QZbabbVPS[\_\_\_PaaZ¥[^ZZ¥`Q`b[Waa[`] \_a¥  
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+HWI-EAS443:3:23:1123:658#0/1  
ab`a^abab\_b\_b\_\_\_a\_a`^^^\_\_\_\_X\_a``\_aX`Y`]  
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+HWI-EAS443:3:23:1162:1020#0/1  
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+HWI-EAS443:3:23:124:1250#0/1  
aaa\_aa\_aaaYaaa\_¥\_`a^`aX\_``[]`^`^`^]¥\_  
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XI^Q¥Tab`^Z`¥[ZUX\_QU¥^¥a]S^HRRXa\_`]aW[Z]  
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+HWI-EAS443:3:23:1397:202#0/1  
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a`\_`baa`a`aa\_bb`ba\_a¥ba`aba\_abaWaa\_\_a`S\_  
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+HWI-EAS443:3:23:1577:1409#0/1  
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+HWI-EAS443:3:23:1655:35#0/1  
a\_abW)`[^a`Z]]Yaaa\_\_LX]Y`^[RZ[^U¥IX]^ZY[  
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^`^bab^`]^\_a]]ZSV`[Sbaaaa`^a¥]Y`]]aa`[a  
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aaa`bbb]FZZ`aa[Ua`]S`b^`\_`]Q¥``Z^R\_[RR`  
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+HWI-EAS443:3:23:173:1017#0/1  
aaababab^VZ`b\_\_\_`VXa`aa`aU\_XZ`a`\_\_a\_ZR  
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+HWI-EAS443:3:23:176:1491#0/1  
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+HWI-EAS443:3:23:198:1330#0/1  
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abab`a\_``^a^]^^aa`a\_\_^aZ\_`a\_\_\_\_]a]\_\_-\_-]  
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+HWI-EAS443:3:23:226:1950#0/1  
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a`baab]a\_abaaaaa``]aaa`a[`a\_\_a`\_a\_`a\_\_`\_  
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+HWI-EAS443:3:23:237:755#0/1  
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+HWI-EAS443:3:23:247:1617#0/1  
a¥a¥UWSZ]¥\_aa^RV`Uaa¥XaPa]\_Yb\_``Y\_\_\_ZJWU  
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+HWI-EAS443:3:23:259:1656#0/1  
V]U\_\_`S¥\_¥^UQ`\_`a^a\_a]Y]aa^^W¥]Z\_`¥\_\_`H\_  
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+HWI-EAS443:3:23:309:641#0/1  
P¥Y```ab\_Wa\_Yabb^a`\_`Q`bbbb\_`\_\_aab\_aaba  
@HWI-EAS443:3:23:33:1604#0/1  
CGATTGCAATACAACCTGTCAGACACCCAAGGGTGCTATA  
+HWI-EAS443:3:23:33:1604#0/1  
``aaaabb]`[^aaaa`¥aaa\_aa\_aaa]a\_^S^¥^`^Q  
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+HWI-EAS443:3:23:384:156#0/1  
`^`ababbaaa`aaaa\_¥X]aaa\_a\_U][^Z\_\_VZ\_¥[\_\_\_  
@HWI-EAS443:3:23:388:190#0/1  
GACACTTCCATGCACGTGTTATCGCATTGTGGTAAAAT  
+HWI-EAS443:3:23:388:190#0/1  
aaa¥\_aa`aaa`]`aaa\_^W[`a\_aa`a`\_`VaWH[\_\_\_^^  
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+HWI-EAS443:3:23:414:813#0/1  
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@HWI-EAS443:3:23:449:1234#0/1  
ACCGTACCATCCATCTACCATCCCTGTCCACCCCTTCA  
+HWI-EAS443:3:23:449:1234#0/1  
aa`a]`aab``aa`]`]a\_a^\_^\_^]¥\_^^`¥¥^]^^W¥W^  
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+HWI-EAS443:3:23:498:930#0/1  
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+HWI-EAS443:3:23:514:122#0/1  
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+HWI-EAS443:3:23:551:471#0/1  
VX[b\_a¥` `UON`aaa\_XUU]YWJSLZ\_]R^X` `^[\_`\_0  
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TGAACCTTTTACCTACTGCTGTGAACGTGTATTTCATCTT  
+HWI-EAS443:3:23:564:1365#0/1  
^b^abaa¥bbba\_bba^a]b^Xb`a¥aaR`\_¥aa`baaa`  
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CTGGTGTATCTGAAATGATAATACCAGATCCAGCATTCT  
+HWI-EAS443:3:23:580:54#0/1  
aa`]D[¥b^¥a^^^¥[a`¥]WaVaYYZ\_\_UR[ `^` [ `]M]  
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+HWI-EAS443:3:23:589:72#0/1  
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+HWI-EAS443:3:23:594:841#0/1  
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+HWI-EAS443:3:23:639:1982#0/1  
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+HWI-EAS443:3:23:69:399#0/1  
aa`a^`\_`a`^`^`^`\_\_a`\_`\_`^]`^\_]\_\_]Z`Y\_\_^]  
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+HWI-EAS443:3:23:702:1241#0/1  
¥Sabb^0^`^`baa\_]a\_X`a]a`aaaaa` `a`Z`^^Z^  
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AAGCCAGTTAAAAACAATGCCAAGGAAATTGGAAACGGC  
+HWI-EAS443:3:23:734:1164#0/1  
a`aa¥aa]¥`aaaa\_\_a\_\_aUaW`]`^VaW\_N¥`^^`¥[  
@HWI-EAS443:3:23:758:1840#0/1  
TTTGAATTTTACCACAAATGCGATAACACGTGCATGGAAA  
+HWI-EAS443:3:23:758:1840#0/1  
a]aaa^^S]aababaa`] `a`a` `aa`aaa]aR` [ ` \_` \_` \_`  
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CACCATCCATCTACTAGTGCTGACCAACAAAGTCTCTATC  
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ab\_]\_a\_]ba]^b`a[aV^a\_bW[\_aaaaaaaYVSY` \_\_\_\_

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+HWI-EAS443:3:23:836:1225#0/1  
abaaPaZ`baba^]\_a`a\_bWTaaa^aaaa`\_\_\_\_\_X¥]^  
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+HWI-EAS443:3:23:838:984#0/1  
a\_\_bRXb`XaX[\_^LZHRZ]^U`WW[aYa^XW^aWUX][Y  
@HWI-EAS443:3:23:839:1434#0/1  
ACCATCCATCTACTAGTGCTGACCAACAAAGTCTCTATCA  
+HWI-EAS443:3:23:839:1434#0/1  
aa`b\_aba``\_b^`^Z`^`\_\_\_\_\_`^aa^YW\_^`^]U\_  
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+HWI-EAS443:3:23:83:912#0/1  
a\_aS\_\_^`][\_`aaa\_]`aa[`aUaa\_NZS`\_`a\_a`a`\_  
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+HWI-EAS443:3:23:851:154#0/1  
abbbba`abba\_\_aa]a`a]\_a`^a`a`\_[\_]`a^`W]\_  
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+HWI-EAS443:3:23:851:396#0/1  
abbaaab^ba`V`a^aaa```aa`\_a\_aa\_X\_\_`a`]a¥  
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+HWI-EAS443:3:23:863:1531#0/1  
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+HWI-EAS443:3:23:900:422#0/1  
aa\_¥]^`ab\_\_Xb\_¥bb^aaa\_aa^^¥¥b^^`]a¥Y\_\_\_\_  
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+HWI-EAS443:3:23:903:1166#0/1  
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@HWI-EAS443:3:23:962:833#0/1  
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+HWI-EAS443:3:23:962:833#0/1  
aa^[¥`^^a^[\_^^\_[¥^]ZPV^[T^^^Z[\_Y\_ZaWZX  
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GAAACTGATTGCCCCAGGGAGACTACCAGTACCAATGAA  
+HWI-EAS443:3:23:975:824#0/1  
\_¥V0]bb^a`\_U]¥VZ]a``]^`XYJWS]ZZY^WKXY¥¥Z]  
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@HWI-EAS443:3:24:1383:1057#0/1  
GGGGACATCAAGATACAGCAAGAAGTTCAAGCCGGAAATA  
+HWI-EAS443:3:24:1383:1057#0/1  
aY`a\_\_a^a\_]\_[`Z\_]U`a\_]X`UZUV]]WL]\_]R VX  
@HWI-EAS443:3:24:1404:646#0/1  
TGTGGGGACATCAAGATACAGCAAGAAGTTCAAGCCGGAA  
+HWI-EAS443:3:24:1404:646#0/1  
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+HWI-EAS443:3:24:1418:612#0/1  
T``a]\_a\_^bb`^a¥Z^```a]U]^YT¥T[ba^]ba\_`W  
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+HWI-EAS443:3:24:1418:793#0/1  
aba\_^\_\_b^`b`Ybbaa\_V]`a[¥\_\_`a[aaaaTXabaaa  
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+HWI-EAS443:3:24:1488:1524#0/1  
ab¥aaa\_abbaab`^\_aaaaVa`a``aaa\_a^¥\_`\_\_\_\_  
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+HWI-EAS443:3:24:1538:207#0/1  
aa¥YN^^Xaa^^`\_^XS^¥M¥^X\_ZX^^\_Z][X]T\_XXQY  
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CTAGTGCTGACCAACAAAGTCTCTATCAGAATGCAGATGC  
+HWI-EAS443:3:24:1555:1248#0/1  
Y\_`YP^YT`\_T¥T\_U```a^^]L]a\_Z¥[\_\_\_]\_aVa\_X]\_  
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``baababaab`\_a`a^`[aU^aa`aaa¥]``ab\_a`^`^  
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+HWI-EAS443:3:24:1594:1402#0/1  
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+HWI-EAS443:3:24:161:1406#0/1  
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+HWI-EAS443:3:24:1622:1807#0/1  
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+HWI-EAS443:3:24:1675:151#0/1  
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+HWI-EAS443:3:24:1696:1852#0/1  
`^PSaYS\_bbabb\_\_b^U^a^`¥aa`^a\_\_aZa\_`^`\_S`  
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CGGTTTCATTGAAGGGGGTGGACAGGGATGGTAGATGGA  
+HWI-EAS443:3:24:1697:1192#0/1  
a¥\_Wba`abb\_Zabbbba[¥b]a`aaaa[abbTa]` `bX  
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+HWI-EAS443:3:24:1709:1998#0/1  
aaa]X]\_\_T`[[a\_`X¥YX`R¥GYVN]U\_`UP``^`^`\_]`  
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CAGGGAGACTACCAGTACCAATGAACTGGCGACAGTTGAA  
+HWI-EAS443:3:24:195:1181#0/1  
`\_^a\_W\_[M^`^RSYU\_`Y`aY`IU^[bUWZ\_][¥[FX[]U  
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TGCCGGTTTCATTGAAGGGGGTGGACAGGGATGGTAGAT  
+HWI-EAS443:3:24:212:955#0/1  
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CTCCCGGCTCTACTAGTGTCCAGTAATAGTTCATTCTCCC  
+HWI-EAS443:3:24:232:1332#0/1  
\_`bba[ba[`] `Yab`RKS` `XXZX0¥\_YS]]a]¥]] `a`  
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AAATTTTTGTAGAAGCTTTTTGCTCCAGCATGAGGACATG  
+HWI-EAS443:3:24:308:1791#0/1  
^ZaXZ`aaV]aab` `a\_a^[¥\_a[baa` `aPV`]] `a¥]  
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+HWI-EAS443:3:24:540:1453#0/1  
a]TY\_VW¥\_PW]`^`[a`\_NWaX]\_`P¥X[U[`\_¥¥] `S]



@HWI-EAS443:3:24:553:725#0/1  
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GGGGACATCAAGATACAGCAAGAAGTTCAAGCCGGAAATA  
+HWI-EAS443:3:24:592:510#0/1  
`[\_b`aaa^aaab\_a]aa\_aaaa`aX^`^^a]\_\_a¥Z^`  
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GGGGCATTACCATCCATCTACTAGTGCTGACCAACAAAG  
+HWI-EAS443:3:24:623:209#0/1  
abab[FNZaa\_Z[U\_aa]^a```Xa```aa\_¥VW^`¥¥\_a  
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CATTTTGTGGTGATAACCGTACCATCCATCTACCATCCC  
+HWI-EAS443:3:24:629:1236#0/1  
\_U¥aa`\_a\_aaYa`\_aab`a\_a`\_`a\_\_\_`[a\_\_aa]¥\_\_  
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CTTCTCTGAGTATTTTGGGTAGTCATAAGTCCCATTTTT  
+HWI-EAS443:3:24:653:746#0/1  
ab^b^V\_¥a``SX\_\_V[aZ¥F\_]ZU^a^`\_¥^a```aa`a  
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GCCAGTAAAAAACAATGCCAAGGAAATTGGAACGGCTG  
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``^`aW`baaaa¥W\_baaaa`\_`a¥Y`\_a\_\_`a\_a`\_Sa  
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+HWI-EAS443:3:24:731:1310#0/1  
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+HWI-EAS443:3:24:732:892#0/1  
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+HWI-EAS443:3:24:743:567#0/1  
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AAATGCTGGATCTGGTATTATCATTTTCAGATACACCAGTC  
+HWI-EAS443:3:24:760:1947#0/1  
\_ab\_Ua\_`^`a\_a`^S]^`^a^^\_a^\_]\_^`Za\_\_]OZ]W`  
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+HWI-EAS443:3:24:776:1935#0/1  
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+HWI-EAS443:3:24:785:963#0/1  
aaabbb\_b\_b`ba`aaa\_\_`a\_a]J`V^\_\_aaZ\_Z\_  
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+HWI-EAS443:3:24:833:1487#0/1  
`b`Ubbaaaa\_\_R`^Ua`^aa\_a`W`¥`^a`\_`W[\_  
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[`¥Xabbbb[bb[VZ^^Y¥`a^a]baa^`aaab\_babaa  
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+HWI-EAS443:3:24:881:1005#0/1  
ab¥b¥a\_[Z]]ba`aaaa`b\_Y]NN]\_`¥`Q`^¥^`^S^\_  
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+HWI-EAS443:3:24:956:1295#0/1  
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+HWI-EAS443:3:24:960:106#0/1  
a\_baa`^]``[a`a`^^[``V\_a`^]`RXUa]\_VY`]XY]  
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aa`aaaaaaaa`aba^`]a`Y^]\_a^`\_`aUX]`Sa^S]S  
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+HWI-EAS443:3:24:984:1891#0/1  
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@HWI-EAS443:3:25:1032:98#0/1  
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+HWI-EAS443:3:25:1032:98#0/1  
aa]abbaa`abaa\_aa`b\_\_\_\_`ba`\_\_a`a\_\_\_\_\_]\_\_]^  
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+HWI-EAS443:3:25:1050:947#0/1  
a\_\_\_\_abbbbbbb`aa^`bbbaaab`b`bbaa`aa`\_\_\_\_  
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@HWI-EAS443:3:25:1112:1507#0/1  
CTTCTCTGAGTATTTTGGGTAGTCATAAGTCCCATTTTT  
+HWI-EAS443:3:25:1112:1507#0/1  
^¥Z\_WXY`[`aY[Y^ZZ`\_Qa\_UZab¥QUSOTZV¥ZWZa  
@HWI-EAS443:3:25:1140:739#0/1  
TGTTTTTGTGGGACATCAAGATACAGCAAGAAGTTCAAG  
+HWI-EAS443:3:25:1140:739#0/1  
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+HWI-EAS443:3:25:1147:1290#0/1  
abbbb`^]\_^ba`^a`a\_a\_\_\_\_`XaY\_ba``\_a\_U]¥  
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ATTTGGGTAAATGTAACATTGCTGGCTGGATCCTGGGAAA  
+HWI-EAS443:3:25:1148:1752#0/1  
Z\_\_¥\_^WO\_a`aaXa¥^b\_a`^`¥X¥Ya^a¥TXVXaN`\_  
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AAAATATGTAAAAAGCACAAAATTGAGACTGGCCACAGGA  
+HWI-EAS443:3:25:1238:2014#0/1  
Z^¥[aa\_V\_a`baa`[a`aZT[^aba]Vaa`aYa]]\_W  
@HWI-EAS443:3:25:126:977#0/1  
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+HWI-EAS443:3:25:126:977#0/1  
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+HWI-EAS443:3:25:1306:353#0/1  
aaa^b\_a`TZbaaZX\_aa\_aYF^aZS[a\_`T¥[\_QY\_VN\_  
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+HWI-EAS443:3:25:1350:377#0/1  
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+HWI-EAS443:3:25:1408:26#0/1  
\_N`\_Z^]UYQ^\_^`^]WT^\_\_XSVVXQZYYSO]]WZVZWT  
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+HWI-EAS443:3:25:1409:1025#0/1  
V\_`R[\_\_\_VT\_¥¥`¥¥W\_a^H\_a¥U\_aa]Q\_ZUHZZ`]YOR  
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GCACGTGTTATCGCATTGTGGTAAAATTCAAAGCAGCCG  
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+HWI-EAS443:3:25:143:1295#0/1  
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+HWI-EAS443:3:25:1469:633#0/1  
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+HWI-EAS443:3:25:1524:1235#0/1  
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+HWI-EAS443:3:25:1526:2034#0/1  
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+HWI-EAS443:3:25:1571:94#0/1  
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+HWI-EAS443:3:25:1611:251#0/1  
aa^`aaYW\_\_a`\_`\_\_^`\_]\_Y[[\_^`\_^][\_]`^`^`^`  
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@HWI-EAS443:3:25:167:400#0/1  
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+HWI-EAS443:3:25:167:400#0/1  
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+HWI-EAS443:3:25:1699:219#0/1  
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+HWI-EAS443:3:25:1721:1077#0/1  
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@HWI-EAS443:3:25:1740:453#0/1  
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+HWI-EAS443:3:25:1740:453#0/1  
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+HWI-EAS443:3:25:1757:1111#0/1  
a]^]ba`¥`aXX`\_0\_\_Z`\_`\_Yaa]\_R^aa`a\_R\_aaa[^  
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+HWI-EAS443:3:25:1779:1254#0/1  
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@HWI-EAS443:3:25:235:338#0/1  
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+HWI-EAS443:3:25:235:338#0/1  
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+HWI-EAS443:3:25:264:1313#0/1  
¥\_a\_] [a\_`aWV`a]V[a^¥] ]\_Y¥aa\_` `` ` \_XaXa\_]  
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+HWI-EAS443:3:25:270:307#0/1  
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@HWI-EAS443:3:25:368:1629#0/1  
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+HWI-EAS443:3:25:368:1629#0/1  
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+HWI-EAS443:3:25:372:1247#0/1  
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+HWI-EAS443:3:25:440:488#0/1  
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+HWI-EAS443:3:25:474:1894#0/1  
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+HWI-EAS443:3:25:510:1139#0/1  
ababbaaba[ `` `^Wa\_\_aaabYXbX[[^`a`\_\_aZ\_[¥\_  
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+HWI-EAS443:3:25:550:130#0/1  
a`aa`aaaaaba` `` `^a¥`^`\_¥Y^^¥`\_W\_¥[\_W¥¥^¥  
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+HWI-EAS443:3:25:566:1661#0/1  
aaa[aaaaa` `Z` [ `aa`a`b\_`a\_OW`b\_^^[]¥\_` `` `\_\_  
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+HWI-EAS443:3:25:571:1035#0/1  
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+HWI-EAS443:3:25:608:1639#0/1  
a`aaaaaaaa`aa`P^)`a`\_\_`\_\_`[S`¥\_a`\_\_\_\_]\_\_  
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GCACGTGTTATCGCATTTGTGGTAAAATCAAAGCAGCCG  
+HWI-EAS443:3:25:619:1161#0/1  
ab¥`baa\_\_bbba`aabb`\_a^^b`b`aaZaa`¥a\_\_X`  
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+HWI-EAS443:3:25:622:827#0/1  
]`^^\_ZY`baV`aa`bbbb^`b`\_\_Laa\_baaaa]a  
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+HWI-EAS443:3:25:751:615#0/1  
R\_\_V¥[YVPV¥V\_V`\_[\_\_ZX^T^ZUZ\_V]Z^`]Z^¥X  
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+HWI-EAS443:3:25:851:1387#0/1  
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+HWI-EAS443:3:25:852:1269#0/1  
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+HWI-EAS443:3:25:898:935#0/1  
a\_^aa\_\_^\_aWa`\_¥`a^¥Z\_Z^`\_\_Xa`\_`\_]Y`\_\_V`  
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+HWI-EAS443:3:25:961:1652#0/1  
V\_¥\_\_b^`a¥]`b`bbabbabbb^abaaa]^bbbaa\_  
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+HWI-EAS443:3:25:992:125#0/1  
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+HWI-EAS443:3:25:999:602#0/1  
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+HWI-EAS443:3:26:130:1084#0/1  
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a\_v\_WLM^[00\_VROX]W^[MY\_YUDY]`Ta][DRT\_T`  
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+HWI-EAS443:3:26:1364:1029#0/1  
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+HWI-EAS443:3:26:1368:66#0/1  
aaaa\_a`\_a`aa`\_aab¥^X^a`^\_a\_a`W[[Y\_]UZ  
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+HWI-EAS443:3:26:1369:1711#0/1  
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@HWI-EAS443:3:26:1416:84#0/1  
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+HWI-EAS443:3:26:1416:84#0/1  
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+HWI-EAS443:3:26:1452:521#0/1  
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+HWI-EAS443:3:26:146:795#0/1  
]baWZV¥]aXX\_ZVV\_\_V[QOV``]aYRZW¥SXaZZ`]X^  
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+HWI-EAS443:3:26:1489:453#0/1  
aba^[``\_Y^a\_[\_`a]Z[Y^a`\_W^]SY]`Za[^Ta\_V



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+HWI-EAS443:3:26:1502:1285#0/1  
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+HWI-EAS443:3:26:1519:1986#0/1  
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+HWI-EAS443:3:26:1546:779#0/1  
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+HWI-EAS443:3:26:171:1231#0/1  
aa¥ab`a`Z^`V^VPX]Y`a`SX¥T\_]P^^^RFZ]FTXXF  
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+HWI-EAS443:3:26:1757:1787#0/1  
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@HWI-EAS443:3:26:1758:494#0/1  
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+HWI-EAS443:3:26:1758:494#0/1  
\_bb`W`^`\_V]^`^¥Xa`\_`\_`ab`WaM¥Sa]b]V`a``a`  
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+HWI-EAS443:3:26:1762:1366#0/1  
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@HWI-EAS443:3:26:1776:849#0/1  
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+HWI-EAS443:3:26:1776:849#0/1  
[a[\_]DOX[a\_a\_\_a`^`YZZU`^`a0]`PSYSYX\_WY]B  
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+HWI-EAS443:3:26:1782:1508#0/1  
a[\_]\_U`Yb\_\_\_YY[SZ\_JWR`a`a[]\_a0`¥W`\_`RR`V¥  
@HWI-EAS443:3:26:1791:1663#0/1  
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+HWI-EAS443:3:26:1791:1663#0/1  
a\_a`bab\_`^`a`aZa`]`\_^LN\_XaY\_^\_]`\_NN\_]X]B  
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+HWI-EAS443:3:26:181:553#0/1  
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@HWI-EAS443:3:26:186:881#0/1  
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+HWI-EAS443:3:26:186:881#0/1  
^]ba`]bb`UTX^Z^`aZ¥]\_\_¥Y^a]a\_aa\_aa]]^Ra  
@HWI-EAS443:3:26:240:1585#0/1  
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+HWI-EAS443:3:26:240:1585#0/1  
¥`aaba^\_\_bb```¥abba`aaaX¥`a`Y`aaa```Za`a  
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+HWI-EAS443:3:26:256:1612#0/1  
a¥a`¥Y^¥^]¥YY¥SVNWNWYT¥STWGYYTWTBBBBBBB  
@HWI-EAS443:3:26:274:484#0/1  
AAACAATGCCAAGGAAATTGGAAACGGCTGCTTTGAATTT  
+HWI-EAS443:3:26:274:484#0/1  
^\_babaa`ba`aaaV\_a``aa\_``\_aaa\_]UYX¥XP¥U]B  
@HWI-EAS443:3:26:288:280#0/1  
TGGGTCTTATTGCTATTTCCGGCTTGAACCTTCTTGCTGTA  
+HWI-EAS443:3:26:288:280#0/1  
\_bba\_a`aaa`¥¥`aU\_`\_[\_`\_T^ZU\_``¥\_]`^¥[X]W\_  
@HWI-EAS443:3:26:420:1509#0/1  
CGTGTATCGCATTGTTGGTAAAATTCAAAGCAGCCGTTT  
+HWI-EAS443:3:26:420:1509#0/1  
ab^``aaa^^aaaaa^\_]ba`aa`\_aa`\_``]\_\_\_^^^  
@HWI-EAS443:3:26:423:796#0/1  
GGACACTAGTAGAGCCGGGAGACAAAATAACATTCTGAAGC  
+HWI-EAS443:3:26:423:796#0/1  
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@HWI-EAS443:3:26:458:997#0/1  
AGCTCCTCATAATCGATGAAATCTCCTGGGTAACACGTTC  
+HWI-EAS443:3:26:458:997#0/1  
`\_aaaaaaaa\_aa`\_aa`aa`]^a\_^`^`\_[WT\_]`]XR¥\_  
@HWI-EAS443:3:26:464:1487#0/1  
GCCGGGAGACAAAATAACATTCTGAAGCAACTGGAAATCTA  
+HWI-EAS443:3:26:464:1487#0/1  
^^a\_\_VZ\_b\_Z`aaX`abb\_aa^`]X]\_Q¥aaa`¥aaaXZ  
@HWI-EAS443:3:26:464:507#0/1  
TGGCTGGATCCTGGGAAATCCAGAGTGTGAATCACTCTCC  
+HWI-EAS443:3:26:464:507#0/1  
\_ZX\_aaa`[aa`^^`Xaa^^^aa\_aZ\_Z\_]U\_\_a\_Z\_[¥^  
@HWI-EAS443:3:26:47:125#0/1  
GTGTGCTCTTCAGTTCGGCTGCATATCCTGACCCCTGCTC  
+HWI-EAS443:3:26:47:125#0/1  
a\_b`baaaa``aaaWa]X\_`a\_\_\_b^\_aZ[\_^^`^]XVZ

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+HWI-EAS443:3:26:486:1604#0/1  
\_`\_]\_ZVa\_b`\_Z\_\_bbbabbTb]`a\_b^aaZabaaaaab\_  
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GCCGGTTTCATTGAAGGGGGTGGACAGGGATGGTAGATG  
+HWI-EAS443:3:26:517:368#0/1  
a`aa^[aa¥L¥`\_RW`aa`[aU\_aTPZ`X`[Ua[UY`XG`  
@HWI-EAS443:3:26:527:1235#0/1  
GTGTGCTCTTCAGGTCGGCTGCATATCCTGACCCCTGCTC  
+HWI-EAS443:3:26:527:1235#0/1  
Z\_`^\_aa`a`^`PTPZ[\_\_\_a\_\_\_b`¥a`Q`[^RQMUNTB  
@HWI-EAS443:3:26:546:220#0/1  
TACAATTGTCAGACACCCAAGGGTCTATAAACACCAGC  
+HWI-EAS443:3:26:546:220#0/1  
aa`aaaa¥a`W`a`^`¥X¥U]^\_¥a`^`^V]^[[[R  
@HWI-EAS443:3:26:550:644#0/1  
ACTGATTGCCCCAGGGAGACTACCAGTACCAATGAACTG  
+HWI-EAS443:3:26:550:644#0/1  
`YN\_b^a`]W^]T¥XYZG^TZ]^[\_VG¥F\_P]TPT^PR  
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TCTGTGTGCTCTTCAGGTCGGCTGCATATCCTGACCCCTG  
+HWI-EAS443:3:26:600:1222#0/1  
\_bab\_]RU\_aaa¥ZaZ\_Ka`^`^`\_X`\_V¥X]aa`0^P  
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GGACATGCTGCCGTTACACCTTTGTTTCGAGTCATGATTGG  
+HWI-EAS443:3:26:609:1074#0/1  
abbbbaaabababa```]aaa`a`aaa`¥`a`^`^`\_`\_  
@HWI-EAS443:3:26:619:654#0/1  
GGCTAGTTAAAAAAGGAAATTCATACCCAAAGCTCAGCAA  
+HWI-EAS443:3:26:619:654#0/1  
aY`VVaYaZVSS`]Y[WW`VJLW`\_a`\_XOTY`]WW[TXV  
@HWI-EAS443:3:26:651:538#0/1  
CTGTGTGCTCTTCAGGTCGGCTGCATATCCTGACCCCTGC  
+HWI-EAS443:3:26:651:538#0/1  
Q¥[[\_bb¥bb``baa]`bbbbbb]ba`aZ\_X^ba``\_P]\_  
@HWI-EAS443:3:26:69:900#0/1  
GGCTGGTGTATAGCACCCCTGGGTGTCTGACAAGTTGT  
+HWI-EAS443:3:26:69:900#0/1  
aababaTaabb`[\_`bbbbaab\_]\_a\_aa`RYYY`¥^  
@HWI-EAS443:3:26:702:726#0/1  
CCGGCTTGAACCTTCTGCTGTATCTTGATGTCCCCACAAA  
+HWI-EAS443:3:26:702:726#0/1  
\_ab¥\_a\_U\_\_T\_\_^a]G^\_¥¥b`\_a^S]\_`\_\_Z\_\_V\_a[\_  
@HWI-EAS443:3:26:748:518#0/1  
GGGACATCAAGATACAGCAAGAAGTTCAAGCCGAAATAG  
+HWI-EAS443:3:26:748:518#0/1  
]JZYPH\_P]aY[Ra`\_aaW`a[LZSWX^^]Z[]TFROX]^  
@HWI-EAS443:3:26:762:644#0/1  
TGCCGGTTTCATTGAAGGGGGTGGACAGGGATGGTAGAT

+HWI-EAS443:3:26:762:644#0/1  
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@HWI-EAS443:3:26:769:251#0/1  
GGGGCATTACCCATCCATCTACTAGTGCTGACCAACAAAG  
+HWI-EAS443:3:26:769:251#0/1  
ababaabaababba\_`aaa`]`¥`aSaa\_a\_a^¥`0`\_^^  
@HWI-EAS443:3:26:830:1821#0/1  
TTTTGGGTAGTCATAAGTCCCATTTTTGACACTTCCATG  
+HWI-EAS443:3:26:830:1821#0/1  
aaaa`bVb` `aaaaa\_U`baaaaaabaa^a`a\_\_aa`\_\_  
@HWI-EAS443:3:26:837:420#0/1  
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+HWI-EAS443:3:26:837:420#0/1  
¥^VV]Q^YYa¥^ZYS]^¥a\_]M[ `aa¥\_RRGWTV]WYMZ  
@HWI-EAS443:3:26:858:1053#0/1  
GACAATGGAACGTGTTACCCAGGAGATTTTCATCGATTATG  
+HWI-EAS443:3:26:858:1053#0/1  
abbbaaaaaba`b`aa\_\_aa`a` `a\_aa\_\_aaa\_aa]`\_`  
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+HWI-EAS443:3:26:89:594#0/1  
aWX` `¥a^aY^a^Ra^¥\_ZYY`Z¥H[T^\_^\_X¥`XWV`¥  
@HWI-EAS443:3:26:942:1517#0/1  
GGGGACATCAAGATACAGCAAGAAGTTCAAGCCGGAATA  
+HWI-EAS443:3:26:942:1517#0/1  
abaabbbbaab\_aababaabbbbaabV\_baaa\_^a`a\_b\_a  
@HWI-EAS443:3:27:1022:932#0/1  
GACAGGGATGGTAGATGGATGGTACGGTTATCACCATCAA  
+HWI-EAS443:3:27:1022:932#0/1  
ab^\_bba]aba^\_aa`aaa`aYa\_\_aY\_a`Z\_[Y^\_RY\_  
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TTGCTATTTCCGGCTTGAACCTTCTTGCTGTATCTTGATGT  
+HWI-EAS443:3:27:1123:1007#0/1  
abaaabbbbaa`aaaa`aa`\_a`]\_aa\_a`\_`aa`\_^  
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+HWI-EAS443:3:27:1133:1097#0/1  
aaaaabbb^bbba\_S\_\_baaaaaa`aa\_a\_\_`\_aaa`][  
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+HWI-EAS443:3:27:1151:684#0/1  
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GTCATGATTGGCCATGAACTTGTCTTGGGGAATATCTCA  
+HWI-EAS443:3:27:1152:969#0/1  
a\_[a`\_Vaa\_a`a`\_`[\_\_\_a`\_`a`\_]Y`\_`[\_`\_`\_`]  
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AAATTGGAACGGCTGCTTTGAATTTTACCACAAATGCGA  
+HWI-EAS443:3:27:1199:1278#0/1  
aabaabbaaaaaaa`Z\_aaIPXU` `a\_^`\_`\_`aaM^UT¥

@HWI-EAS443:3:27:1208:1789#0/1  
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+HWI-EAS443:3:27:1208:1789#0/1  
ababaaababaaaa`aa\_XaaaaWaaaaaaaaa\_aaaaaa  
@HWI-EAS443:3:27:1226:433#0/1  
GGGTGGACAGGGATGGTAGATGGATGGTACGGTTATCACC  
+HWI-EAS443:3:27:1226:433#0/1  
^bbbaa\_baab`aabbZQbaaaaa\_abaQb\_`[\_aaa\_\_X¥  
@HWI-EAS443:3:27:1242:132#0/1  
GAGTATTTTGGGTAGTCATAAGTCCCATTTTTGACACTTT  
+HWI-EAS443:3:27:1242:132#0/1  
abb\_abbba^`a[`a]\_\_a\_\_`^S^X\_a`aa\_\_\_¥]\_\_]`  
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GAAATTCATACCCAAAGCTCAGCAAATCCTACATTAATGA  
+HWI-EAS443:3:27:124:268#0/1  
aaZ\_\_¥aba`baba`]]\_W]V]]W]¥[X`YOW`¥` `a`a^  
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TGGGCCATGAACCTGTCTTGGGGAATATCTCAAACCTTTC  
+HWI-EAS443:3:27:1284:1318#0/1  
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@HWI-EAS443:3:27:1348:684#0/1  
CAGGGGTCAGGATATGCAGCCGACCTGAAGAGCACACAGA  
+HWI-EAS443:3:27:1348:684#0/1  
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+HWI-EAS443:3:27:1402:552#0/1  
aaaaa`]a`aa\_a`a\_`a`aa^\_]a¥` `a`V¥]^\_V\_\_\_[  
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TTTGCTTCTCTGAGTATTTTGGGTAGTCATAAGTCCCAT  
+HWI-EAS443:3:27:1406:919#0/1  
abba\_b`]aa¥a`^a\_^aaa\_` `VX¥¥Y\_^`Y¥\_^S\_[[`  
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+HWI-EAS443:3:27:141:525#0/1  
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+HWI-EAS443:3:27:1427:1403#0/1  
^\_ab\_aaZ`abaaa`ba\_a\_a\_aa` `Pa`[^`OZOYWV  
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+HWI-EAS443:3:27:1430:1922#0/1  
aa`a`aaa¥a]\_`aaa\_a` `T`a\_a\_a\_U¥¥\_Z`Z]Z]¥]  
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+HWI-EAS443:3:27:1460:370#0/1  
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+HWI-EAS443:3:27:1462:761#0/1  
`S^XV]N\_a[XQ[`a`\_`a`S[¥SOWU^]\_VV]]]\_^^\_  
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GAAAGAACTTTGGACTACCACGATTCAAATGTGAAGAACT  
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aa`\_aaa^aaa^`\_]`^]]`¥aY`¥P\_``a`]\_\_^a¥\_U\_  
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+HWI-EAS443:3:27:1498:613#0/1  
abaaabbabaa`¥a¥`ba\_\_a`\_aXa\_aa`\_Z`\_]S]ZZ  
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+HWI-EAS443:3:27:1506:1107#0/1  
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+HWI-EAS443:3:27:1513:1660#0/1  
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+HWI-EAS443:3:27:1594:1048#0/1  
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+HWI-EAS443:3:27:1610:138#0/1  
W`a\_a\_aa]\_a\_¥a\_a[\_Y¥Y\_YU^\_\_V^WPVVZW^U]]¥  
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+HWI-EAS443:3:27:1613:1787#0/1  
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AAAGAACTTTGGACTACCACGATTCAAATGTGAAGAACTT  
+HWI-EAS443:3:27:162:200#0/1  
a`Z\_Z^a\_a`\_\_aa\_aaa`^a`^^[Y¥X[\_X`]\_`Y¥^^]  
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CGGGGAGACAAAATAACATTCCAAGCAACTGGAAATCTAGT  
+HWI-EAS443:3:27:1634:2027#0/1  
a^^WZabaW^`Z`^W]ZaQN\_\_`WXTYWZ]]^N[]Z^YM  
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ATGCTGGATCTGGTATTATCATTTTCAGATACACCAGTCCA  
+HWI-EAS443:3:27:1659:827#0/1  
¥HL\_TX]¥KJYKa^`aa`a\_`YY]VT\_`Wa[WGL[^]]P[  
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GTGGGGACATCAAGATACAGCAAGAAGTTCAAGCCGGAAA  
+HWI-EAS443:3:27:1789:1585#0/1  
aT``]aaWa^^\_\_`]\_\_``aS\_`a`^aZ^^`]¥¥R^]ZZ^

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+HWI-EAS443:3:27:243:1449#0/1  
a^[\_a]a`baa][aa`WTTU^`Ya]WfY¥VYUY^`\_\_Y  
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+HWI-EAS443:3:27:269:683#0/1  
abbZ\_ba`]b`bbbab`baba\_aaaa][X]]S[`V[]¥¥  
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]`V¥\_\_Vab^RWVbb^\_b00^b^]N¥`a]a]Q¥a[^]`\_¥  
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+HWI-EAS443:3:27:349:22#0/1  
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+HWI-EAS443:3:27:34:1730#0/1  
ab]Ya]^Q¥ZZ`V¥T\_[YZS]\_]\_XZXPX\_^aa`a^`¥  
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+HWI-EAS443:3:27:368:1572#0/1  
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@HWI-EAS443:3:27:404:689#0/1  
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+HWI-EAS443:3:27:404:689#0/1  
abbbaabaaaaaa`Z``aaaa^a\_aaa``a`a`[^a\_S  
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+HWI-EAS443:3:27:404:75#0/1  
abb`PXX\_]aaaaY^aa`Taa`\_\_G]T\_[aRV`\_W^^W[  
@HWI-EAS443:3:27:411:1897#0/1  
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+HWI-EAS443:3:27:411:1897#0/1  
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+HWI-EAS443:3:27:435:1331#0/1  
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@HWI-EAS443:3:27:435:1644#0/1  
GATAACCGTACCATCCATCTACCATCCCTGTCCACCCCC  
+HWI-EAS443:3:27:435:1644#0/1  
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CAATTGAGCTCAGTGTCATCATTTGAAAGTTTGAGATAT  
+HWI-EAS443:3:27:470:91#0/1  
aabbabbbbaaab^baaaa^abaaa`aaaa^aaaaaa`a`  
@HWI-EAS443:3:27:493:984#0/1  
TGTGGGGACATCAAGATACAGCAAGAAGTTCAAGCCGGAA  
+HWI-EAS443:3:27:493:984#0/1  
]ZR[^XTRZ]RZUNZ\_^]¥YZL\_UY`ZN]]^`aXO[XU]  
@HWI-EAS443:3:27:503:385#0/1  
CATTCTGTGTGCTCTTCAGGTCGGCTGCATATCCTGACCC  
+HWI-EAS443:3:27:503:385#0/1  
a¥^^aa\_[a`]aaaa`X^]R]\_a`[^[a^ZY^a\_`^WZ^  
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+HWI-EAS443:3:27:538:1342#0/1  
Z`UWSNP`QW^XZYRSJXV`YXV¥]TQHUIT¥^aTS[[¥Y  
@HWI-EAS443:3:27:552:345#0/1  
GGGGCATTACCATCCATCTACTAGTGCTGACCAACAAAG  
+HWI-EAS443:3:27:552:345#0/1  
aa\_aa\_aaaaa`a\_a\_\_a^aa\_`a]`\_^a\_`^`X\_^Z`  
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GTCATGATTGGGCCATGAACCTGTCTTGGGGAATATCTCA  
+HWI-EAS443:3:27:553:1730#0/1  
a^\_]`^a\_]^[U[\_`WSZ`a\_\_XX^[^^^`^U^^^Z\_U]Y  
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+HWI-EAS443:3:27:556:1028#0/1  
aaaa^a`U`¥abaaa\_\_Z^a`aaaZ\_aa`a\_^\_a]a``\_  
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+HWI-EAS443:3:27:570:1049#0/1  
abb\_`aa`Z]bbbbbaaba`aaaa¥`aa`a`¥a]K¥^`\_`a  
@HWI-EAS443:3:27:620:146#0/1  
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+HWI-EAS443:3:27:620:146#0/1  
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@HWI-EAS443:3:27:632:694#0/1  
CTTCAGGTCGGCTGCATATCCTGACCCCTGCTCATTTTGA  
+HWI-EAS443:3:27:632:694#0/1  
`S]^X\_[V]^a]¥aZVYb^)`[S[^P`¥P^T^a¥PXP]UZ  
@HWI-EAS443:3:27:636:1376#0/1  
CCC GTTATGCTTGTCTTCTAGAAGGTTAACAGAGTGTGTT  
+HWI-EAS443:3:27:636:1376#0/1  
aa``a`^\_\_aa[aaa\_^aXa`]YZ`aaaa\_\_aW\_\_\_^`



@HWI-EAS443:3:27:643:1064#0/1  
TGAAGAACTTATATGAAAAGGTAAGAAGCCAGTTAAAAAA  
+HWI-EAS443:3:27:643:1064#0/1  
\_b`U`W]NY¥T¥¥^ba``\_a¥]U¥`Y`^^bbaa[`a]W]  
@HWI-EAS443:3:27:645:516#0/1  
TACTGCTGTGAAGTGTATTTCATCTTTTCAATAACAGAA  
+HWI-EAS443:3:27:645:516#0/1  
``a`¥^Y`W]\_a\_]bH\_ba\_a\_]^\_¥\_¥`]a`^V][]¥  
@HWI-EAS443:3:27:668:1965#0/1  
GGGAAACTATGCAAATAAGAGGGGTAGCCCCATTGCATT  
+HWI-EAS443:3:27:668:1965#0/1  
^^^W¥abab\_U\_a`\_`¥`^X]LLZNa`ab`\_]UWY]a^X  
@HWI-EAS443:3:27:669:44#0/1  
TCCGGCTTGAAGTCTTGCTGTATCTTGATGTCCCCACAA  
+HWI-EAS443:3:27:669:44#0/1  
abaabaaaba\_]\_^Z^a\_]aY]^\_\_a]^\_`YU]W^Z^\_  
@HWI-EAS443:3:27:673:1180#0/1  
ATGAAATCTCCTGGGTAACACGTTCCATTGTCTGAACTAG  
+HWI-EAS443:3:27:673:1180#0/1  
aaa]]a`a\_aa\_\_[^Yaa`aa\_Z^\_^`\_]\_^\_\_W]]^]]  
@HWI-EAS443:3:27:709:1056#0/1  
AGGGAGACTACCAGTACCAATGAAGTGGCGACAGTTGAAT  
+HWI-EAS443:3:27:709:1056#0/1  
a`\_X^\_b`aaaa¥`\_]`[^]a`^`\_a`\_]\_`P^ZZ^Q  
@HWI-EAS443:3:27:738:1739#0/1  
GGGGACATCAAGATACAGCAAGAAGTTCAAGCCGGAAATA  
+HWI-EAS443:3:27:738:1739#0/1  
a¥babaaabba\_babab``ababaYTU`aba`aa[aba`b  
@HWI-EAS443:3:27:744:440#0/1  
GCTGGATCCTGGGAAATCCAGAGTGTGAATCACTCTCCAC  
+HWI-EAS443:3:27:744:440#0/1  
aa`]a`\_`¥`aa`a`¥]Za\_]\_PXY]aa\_[`KWV^O[[`  
@HWI-EAS443:3:27:745:984#0/1  
GGTCAGGATATGCAGCCGACCTGAAGAGCACACAGAATGC  
+HWI-EAS443:3:27:745:984#0/1  
^¥G\_\_Y`¥`aZ\_]WT]`\_]`¥¥ZVNY``ZPTV[[VZYU  
@HWI-EAS443:3:27:746:1991#0/1  
AATTTTGCTTCTCTGAGTATTTTGGGTAGTCATAAGTCC  
+HWI-EAS443:3:27:746:1991#0/1  
aaa`\_]Xa\_Q]^\_aaa]NG¥^XY^^XZG`\_Y[\_¥\_]PX¥^  
@HWI-EAS443:3:27:770:923#0/1  
AAGTCCTCGTGCTATGGGGCATTCCACATCCATCTACTAG  
+HWI-EAS443:3:27:770:923#0/1  
]Z\_]W¥]UOX``SaXU[[T\_^U`]aa^VU`X¥\_X[[^a`  
@HWI-EAS443:3:27:77:577#0/1  
GGGAAATCCAGAGTGTGAATCACTCTCCACAGCAAGCTCA  
+HWI-EAS443:3:27:77:577#0/1  
aaaabbabbbaab\_aaaabaabaaaaaaaaa`[`]^\_  
@HWI-EAS443:3:27:790:1133#0/1  
TGTGGGGACATCAAGATACAGCAAGAAGTTCAAGCCGGAA

+HWI-EAS443:3:27:790:1133#0/1  
aaY`]^aab]aa`a\_a`a`baVaaa`YPW`a``^``^X^  
@HWI-EAS443:3:27:795:299#0/1  
TCTTTACCTACTGCTGTGAAGTGTATTTCATCTTTTCAA  
+HWI-EAS443:3:27:795:299#0/1  
aabbabbabaaaaaa`a\_a\_aa^a^aaaaa`aaaa\_aa  
@HWI-EAS443:3:27:819:374#0/1  
GTGGGGACATCAAGATACAGCAAGAAGTTCAAGCCGGAAA  
+HWI-EAS443:3:27:819:374#0/1  
a]a¥WYR[`PWPZ¥]\_NX^]P^\_ZWR]MWU[X]SSW]YYY  
@HWI-EAS443:3:27:880:371#0/1  
CGTGTTACCCAGGAGATTTTCATCGATTATGAGGAGCTAAG  
+HWI-EAS443:3:27:880:371#0/1  
abaa`bbbbaabbab`aa``aa`aYaaaa``a`^\_Ya^a\_  
@HWI-EAS443:3:27:951:1184#0/1  
GCTTCCTCTGAGTATTTTGGGTAGTCATAAGTCCCATTTT  
+HWI-EAS443:3:27:951:1184#0/1  
\_baaabbbbabZ¥\_a`aaaaV^]W`aaa]^\_aZaaa``a  
@HWI-EAS443:3:27:96:573#0/1  
ACAGAATTTACTTTGTTAGTAATCTCGTCAATGGCATTCT  
+HWI-EAS443:3:27:96:573#0/1  
^[U]Z^XaaT`[aZ^^a[¥Y¥¥NM[b^U^FLY\_Z]S[`b\_  
@HWI-EAS443:3:27:974:120#0/1  
CGGCTGCTTTGAATTTTACCACAAATGCGATAACACGTGC  
+HWI-EAS443:3:27:974:120#0/1  
a`\_]\_]PYa`^^baaaa^W¥UY`aa]]H^ZQ¥`O¥L\_MQR  
@HWI-EAS443:3:28:1009:1158#0/1  
GGTACGGTTATCACCATCAAAATGAGCAGGGGTCAGGATA  
+HWI-EAS443:3:28:1009:1158#0/1  
abV]abaI]\_ZPZ\_RLQ`aa^TV`]SPW[\_aaUT`ZXRSW  
@HWI-EAS443:3:28:1085:1970#0/1  
ATGGTTTCCTGGACATTTGGACTTACAATGCCGAAGTGT  
+HWI-EAS443:3:28:1085:1970#0/1  
`bbb`bab[`\_`a[aaa\_¥]¥`]aaba[`¥`\_\_a\_^¥Z^  
@HWI-EAS443:3:28:1087:358#0/1  
GAACGTGTTACCCAGGAGATTTTCATCGATTATGAGGAGCT  
+HWI-EAS443:3:28:1087:358#0/1  
aaaaa`\_Saa`\_U^^^\_\_^a\_¥`]]]]`\_¥^]\_^Z]Z¥  
@HWI-EAS443:3:28:1095:1412#0/1  
ATCCTGACCCCTGCTCATTTTGGTGGATAACCGTACCA  
+HWI-EAS443:3:28:1095:1412#0/1  
W\_WZ[^V]Z]^\_RQYRTXNZWSUPDHPTL]\_[JJJVZOB  
@HWI-EAS443:3:28:110:432#0/1  
GCTGCTTTGAATTTTACCACAAATGCGATAACACGTGCAT  
+HWI-EAS443:3:28:110:432#0/1  
aaa^\_]Y^aa^\_X\_¥\_¥\_a^`a]¥]^a]GX\_]U[`¥\_]¥X  
@HWI-EAS443:3:28:1111:414#0/1  
CAGAATGCAGATGCATATGTTTTTGTGGGGACATCAAGAT  
+HWI-EAS443:3:28:1111:414#0/1  
`[UO\_T[]ab`a]TU\_`U¥SY\_a`\_S`\_\_`\_\_\_`Z\_\_`\_Z

@HWI-EAS443:3:28:1116:35#0/1  
GCTGGCTGGATCCTGGGAAATCCAGAGTGTGAATCACTCT  
+HWI-EAS443:3:28:1116:35#0/1  
a\_aaaa`aa\_`Z]NZaZ¥``\_¥\_]\_X\_NXW]¥¥QV[GYRY  
@HWI-EAS443:3:28:1144:657#0/1  
CTTGAACCTTCTTGCTGTATCTTGATGTCCCCACAAAACA  
+HWI-EAS443:3:28:1144:657#0/1  
a`bbbabbbbabbabbabbabbabbabbabbabbabb`b  
@HWI-EAS443:3:28:1151:1116#0/1  
GCATTCTGTGTCTTTCAGGTCGGCTGCATATCCTGACC  
+HWI-EAS443:3:28:1151:1116#0/1  
aaa`][^][`XST`¥X`\_\_`¥P^\_\_[W\_VZ^\_ZP[^[YTQ  
@HWI-EAS443:3:28:1151:277#0/1  
CAATGGCATTCTGTGTGCTTTCAGGTCGGCTGCATATCC  
+HWI-EAS443:3:28:1151:277#0/1  
\_¥ba\_^`aaaabaa\_aXb`aa`a\_a^`aaX`R`V^aY¥  
@HWI-EAS443:3:28:1156:1133#0/1  
TGCCGGTTTCATTGAAGGGGGTGGACAGGGATGGTAGAT  
+HWI-EAS443:3:28:1156:1133#0/1  
abaabbabbaabb`W^bbab`a[aaaXa`aa\_aZ\_Y¥X\_Z  
@HWI-EAS443:3:28:1162:143#0/1  
GATGGTTTCCTGGACATTTGGACTTACAATGCCGAACGT  
+HWI-EAS443:3:28:1162:143#0/1  
abbababbbabbbb`abbbbaabababbbba]]a`a\_a`a  
@HWI-EAS443:3:28:1169:2004#0/1  
GAAGCCAGTTAAAAACAATGCCAAGGAAATTGGAAACGG  
+HWI-EAS443:3:28:1169:2004#0/1  
\_`babbaabbbbbbbbbbb`bbaaabbaaaaaab\_a]  
@HWI-EAS443:3:28:1197:910#0/1  
GGGAGAATGAACTATTACTGGACACTAGTAGAGCCGGGAG  
+HWI-EAS443:3:28:1197:910#0/1  
\_Y[]`X¥]`\_^J^Y¥`¥V`a¥XWaZXW^U[WHXPSZ[[LY  
@HWI-EAS443:3:28:1231:1030#0/1  
CAGAACTGATTGCCCCAGGGAGACTACCAATG  
+HWI-EAS443:3:28:1231:1030#0/1  
a`b`]UaS[X\_X0]ZZ[``XZ\_¥\_YX\_a¥ZY]LV\_Q\_a\_¥  
@HWI-EAS443:3:28:1257:1817#0/1  
CAGAACTGATTGCCCCAGGGAGACTACCAATG  
+HWI-EAS443:3:28:1257:1817#0/1  
abaab\_aabaaaaa^^Z¥baX\_a^¥a[a\_X¥`F¥\_V`\_`^  
@HWI-EAS443:3:28:1301:800#0/1  
GAAGCCAGTTAAAAACAATGCCAAGGAAATTGGAAACGG  
+HWI-EAS443:3:28:1301:800#0/1  
a`¥aYWSWG[`^XUX[RU¥Z`\_\_a\_a^UW\_]Z`X[\_\_\_]\_\_  
@HWI-EAS443:3:28:1316:1857#0/1  
GACAGGGATGGTAGATGGATGGTACGGTTATCACCATCAA  
+HWI-EAS443:3:28:1316:1857#0/1  
^\_bbbb\_SabaV`aa^aaaaaN]]^a]aa`\_¥VV¥]S¥^  
@HWI-EAS443:3:28:1371:2040#0/1  
TGCTGGCTGGATCCTGGGAAATCCAGAGTGTGAATCACTC

+HWI-EAS443:3:28:1371:2040#0/1  
aa`aa[a\_a`^\_¥^R[`aS`\_ZNRUYZ\_SVS]UWVSZR XU  
@HWI-EAS443:3:28:1372:703#0/1  
GAAGTCCTCGTGCTATGGGGCATTACCATCCATCTACTA  
+HWI-EAS443:3:28:1372:703#0/1  
aab`a`aa\_a`b`]X[`aaa^`aXX\_¥[a^RR\_\_\_¥a¥\_`^  
@HWI-EAS443:3:28:1383:12#0/1  
CAACAAAGTCTCTATCAGAATGCAGATGCATATGTTTTTG  
+HWI-EAS443:3:28:1383:12#0/1  
abbabbbabababababb`abb`bbaa\_\_bbbab]bbab\_  
@HWI-EAS443:3:28:1392:1501#0/1  
GTGCTGACCAACAAAGTCTCTATCAGAATGCAGATGCATA  
+HWI-EAS443:3:28:1392:1501#0/1  
aYaX¥V\_WV¥a^\_WY[V[aX^Y[[`a\_]VZU]NY\_VJX]]  
@HWI-EAS443:3:28:1403:1373#0/1  
CATCTTTTCAATAACAGAATTTACTTTGTTAGTAATCTCG  
+HWI-EAS443:3:28:1403:1373#0/1  
abb\_bbbbbababa^ababaa\_b\_`a^a]`a¥R¥a^¥a\_]`  
@HWI-EAS443:3:28:1453:1679#0/1  
ATTCTGTGTCTTTCAGGTCGGCTGCATATCCTGACCCC  
+HWI-EAS443:3:28:1453:1679#0/1  
ab\_aY`bb\_babbb[\_bba¥a`a`a[X`\_b`a`\_a`\_T\_N  
@HWI-EAS443:3:28:147:1498#0/1  
CTCATAATCGATGAAATCTCCTGGGTAACACGTTCCATTG  
+HWI-EAS443:3:28:147:1498#0/1  
abbbb]`baabbabbaababba`a]]aa`\_b]`aba`\_a\_  
@HWI-EAS443:3:28:1504:569#0/1  
GGAAAGTGTCAAAAATGGGACTTATGACTACCCAAAATAC  
+HWI-EAS443:3:28:1504:569#0/1  
abaaba`b\_¥aa[`\_aa^^a^`aa`aa^\_a\_[Z\_`\_`^`Y  
@HWI-EAS443:3:28:150:1216#0/1  
GGGGACATCAAGATACAGCAAGAAGTTCAAGCCGGAAATA  
+HWI-EAS443:3:28:150:1216#0/1  
aaZ`a^Y]baZ\_TXW\_ba`b^]`^`a^`^`^`^`aV`  
@HWI-EAS443:3:28:1531:1734#0/1  
GAAGAAGTTATATGAAAAGGTAAGAAGCCAGTAAAAAAC  
+HWI-EAS443:3:28:1531:1734#0/1  
^`^`a`aabaabaaa^^a`a`Ya`]a^LVT^aXS¥\_¥[``V  
@HWI-EAS443:3:28:1609:1042#0/1  
GAACTCTTTACCTACTGCTGTGAAGTGTATTTCATCTTT  
+HWI-EAS443:3:28:1609:1042#0/1  
``\_]`^^`^aaYFWaYaaSa]]a[`Paa\_a\_\_a\_^aaSaaa  
@HWI-EAS443:3:28:1632:668#0/1  
CCTGACCCCTGCTCATTGATGGTGATAACCGTACCATC  
+HWI-EAS443:3:28:1632:668#0/1  
abbbbbaa`bbbaaX`babbbbaab[b\_aaa\_\_b\_\_Z\_\_aU  
@HWI-EAS443:3:28:1633:723#0/1  
ATGATTGGGCCATGAACTTGTCTTGGGGAATATCTCAAAC  
+HWI-EAS443:3:28:1633:723#0/1  
abbabbbbbb`aab\_a\_baa\_\_\_aaaa`^`\_`aa^a\_a``X

@HWI-EAS443:3:28:1693:1641#0/1  
GTCATGATTGGCCATGAACTTGTCTTGGGGAATATCTCA  
+HWI-EAS443:3:28:1693:1641#0/1  
`aababbab\_\_b`aa[¥a[aa]a\_aa]aaaSZ]aa\_a[a  
@HWI-EAS443:3:28:1736:1447#0/1  
CAGGATATGCAGCCGACCTGAAGAGCACACAGAATGCCAT  
+HWI-EAS443:3:28:1736:1447#0/1  
abbbbbbbabb\_\_^bb\_aa`aaaaaa\_a`aaaaaa`Uaa  
@HWI-EAS443:3:28:1758:764#0/1  
AAGTCCTCGTGCTATGGGGCATTACCATCCATCTACTAG  
+HWI-EAS443:3:28:1758:764#0/1  
a^b^W[]\_^^`Q\_`\_\_`Y[\_aaa¥¥NZ[]Z^]S\_a¥\_[]`  
@HWI-EAS443:3:28:191:448#0/1  
AGAAGCTTTTTGCTCCAGCATGAGGACATGCTGCCGTTAC  
+HWI-EAS443:3:28:191:448#0/1  
a\_`¥W\_\_aa\_`a`a\_aaaYa`a`a¥a\_[a\_YUQ\_`[TRLS]  
@HWI-EAS443:3:28:194:1360#0/1  
ATTCAAATGTGAAGAATTATATGAAAAGTAAGAAGCCA  
+HWI-EAS443:3:28:194:1360#0/1  
aaaba[0¥^Y]¥a^J`\_`Z``\_a`aa\_\_UXUaa)`a\_a]¥  
@HWI-EAS443:3:28:207:1741#0/1  
TTGCCGGTTTCATTGAAGGGGGTGGACAGGGATGGTAGA  
+HWI-EAS443:3:28:207:1741#0/1  
aababbb`abbabb]¥`[ababaZaabbbaT[U`a\_ZaXa  
@HWI-EAS443:3:28:213:326#0/1  
GGATGGTGAATGCCCCATAGCACGAGGACTTCTTCCCTT  
+HWI-EAS443:3:28:213:326#0/1  
abaaaa^aabaaa\_`a`^a\_```a`\_`\_``^^\_\_]\_`^^  
@HWI-EAS443:3:28:266:1878#0/1  
GCTCCTCATAATCGATGAAATCTCCTGGGTAACACGTTCC  
+HWI-EAS443:3:28:266:1878#0/1  
aaY`]V^ZL]a]aa\_WVNN\_W]¥YZLFGaO\_aaa`¥UT\_a  
@HWI-EAS443:3:28:268:282#0/1  
AGTTCAGACAATGGAACGTGTACCAGGAGATTCATCG  
+HWI-EAS443:3:28:268:282#0/1  
¥]GYTRT^b``\_`^YaaaY¥LWU\_V¥^SZa`SL^¥[¥¥\_\_  
@HWI-EAS443:3:28:280:1191#0/1  
ATGCAGCCGACCTGAAGAGCACACAGAATGCCATTGACGA  
+HWI-EAS443:3:28:280:1191#0/1  
¥Z\_^aZ\_`QZbb¥WWZW[Y]\_Z`]V`N]MM¥]P^L^OZV[  
@HWI-EAS443:3:28:323:539#0/1  
TTTCCAATTTCTTGGCATTGTTTTTAAGTGGCTTCTTA  
+HWI-EAS443:3:28:323:539#0/1  
aaabaaa`aab\_aaaaa`\_\_b¥\_a\_a\_^`\_a\_^\_`]`^]  
@HWI-EAS443:3:28:336:470#0/1  
TCCTGGACATTTGGACTTACAATGCCGAAGTGTGGTTCT  
+HWI-EAS443:3:28:336:470#0/1  
a`aaaa]aaaa`aa`a`aaa`\_`a\_`\_¥X\_\_^^a\_V^Y¥  
@HWI-EAS443:3:28:363:1022#0/1  
GTTATCATGCGAACAATTCAACAGACTGTAGACACAGT

+HWI-EAS443:3:28:363:1022#0/1  
a[P\_\_b` ``\_¥b`^baa[¥Va`¥\_RW\_a`SZR]a^aZ\_T  
@HWI-EAS443:3:28:365:109#0/1  
AAACTGATTGCCCCAGGGAGACTACCAGTACCAATGAAC  
+HWI-EAS443:3:28:365:109#0/1  
aaa`ba` ``\_a[a`aa`¥`\_\_a¥^]aT\_¥TZ\_\_^¥W  
@HWI-EAS443:3:28:374:186#0/1  
TTTGGACATTTTCCAATTGTGATCGGATGTATATTCTGAA  
+HWI-EAS443:3:28:374:186#0/1  
a\_a\_^`^0]a` ]`X`aaa]a[[]]^¥¥¥QXPTRVKVPTB  
@HWI-EAS443:3:28:378:1050#0/1  
CATGATTGGCCATGAACTTGTCTTGGGGAATATCTCAAA  
+HWI-EAS443:3:28:378:1050#0/1  
a` ``^aa\_¥¥aaa` [aaa[¥a`a[¥a^\_\_` `aa\_  
@HWI-EAS443:3:28:393:837#0/1  
TGGACAGGGATGGTAGATGGATGGTACGGTTATCACCATC  
+HWI-EAS443:3:28:393:837#0/1  
`aa`\_aa]Za`]Ya¥a`^`\_\_Wa` ¥VW`Z^^¥\_XVQ  
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ATTCACCATCCATCTACTAGTGCTGACCAACAAAGTCTCT  
+HWI-EAS443:3:28:415:1353#0/1  
aaaabaab\_a\_a\_aaba`a\_^a`^^\_\_^a\_\_a[^0` `\_  
@HWI-EAS443:3:28:446:1916#0/1  
CTTTGTTAGTAATCTCGTCAATGGCATTCTGTGTGCTCTT  
+HWI-EAS443:3:28:446:1916#0/1  
a]a]a`[^T`^`]`a]Yaba\_YZ^aaVaa\_\_QZYZa\_YQ  
@HWI-EAS443:3:28:450:468#0/1  
ATTGGAAAATGTCCAAAATATGTAAAAAGCACAAAATTGA  
+HWI-EAS443:3:28:450:468#0/1  
ababa`¥V[aa`ba^a`\_b^aa`a`aYa^a` ``\_a`]\_a  
@HWI-EAS443:3:28:456:628#0/1  
GGGCCATGAACTTGTCTTGGGGAATATCTCAAACCTTCA  
+HWI-EAS443:3:28:456:628#0/1  
\_a^abaababbbb^`aa\_\_aab`aaa`\_¥` `aaa`\_a  
@HWI-EAS443:3:28:502:1210#0/1  
GGTTTCCTGGACATTTGGACTTACAATGCCGAAGTGTGG  
+HWI-EAS443:3:28:502:1210#0/1  
Y`^ZS[a`^]a`[b`X^\_Xaa^[\_\_X¥Z\_^]a` ``NYYZ  
@HWI-EAS443:3:28:658:1566#0/1  
AGTCCTCGTGCTATGGGGCATTACCATCCATCTACTAGT  
+HWI-EAS443:3:28:658:1566#0/1  
a\_Yaa[a`X` ``\_]`\_V^` `\_\_aa\_\_aXa^\_]a\_^\_]X  
@HWI-EAS443:3:28:65:1174#0/1  
GGGACATCAAGATACAGCAAGAAGTTCAAGCCGAAATAG  
+HWI-EAS443:3:28:65:1174#0/1  
aaaa\_S`b`Y^aabaabaa`aaaa\_\_bbaaa` ``^^`a`a`  
@HWI-EAS443:3:28:674:835#0/1  
GCATTCTGTGTGCTCTTCAGGTCCGGCTGCATATCCTGACC  
+HWI-EAS443:3:28:674:835#0/1  
a`K\_Vab`S`S`Uba`a` `bb[^]ba\_\_aOUL\_GHaRHNVG

@HWI-EAS443:3:28:696:1423#0/1  
GTTCTATTGGAAAATGAAAGAAGCTTTGGACTACCACGATT  
+HWI-EAS443:3:28:696:1423#0/1  
aaa\_a¥abaa^abaaa\_aa\_\_]\_`¥Z^aa`a\_aa\_a\_\_^  
@HWI-EAS443:3:28:730:2000#0/1  
AAAGATGAATACACAGTTCACAGCAGTAGGTTAAAGAGTTC  
+HWI-EAS443:3:28:730:2000#0/1  
]¥YLUJb\_¥]ba`Z`L]`aZTY[\_`Sa]\_G][XV^^ZZW  
@HWI-EAS443:3:28:748:1672#0/1  
TAGCTCCTCATAATCGATGAAATCTCCTGGGTAACACGTT  
+HWI-EAS443:3:28:748:1672#0/1  
aYNY¥aa^ba`aa\_``RZ`\_\_RaWWV\_\_^\_V\_``a[¥^^  
@HWI-EAS443:3:28:748:48#0/1  
ATGCGATAACACGTGCATGGAAAGTGCAAAAATGGGACT  
+HWI-EAS443:3:28:748:48#0/1  
a\_aaaabaa\_`\_aX`\_]`a\_[\_\_\_G`Z`^^^Z\_`S[ZZ^  
@HWI-EAS443:3:28:783:1695#0/1  
CAAGATACAGCAAGAAGTTCAAGCCGAAATAGCAATAAG  
+HWI-EAS443:3:28:783:1695#0/1  
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GCTGCTTTGAATTTTACCACAAATGCGATAACACGTGCAT  
+HWI-EAS443:3:28:822:1024#0/1  
a\_abaa`\_aa`a\_]``^`aa`\_\_\_\_\_`^^a^¥¥XaS\_`\_\_  
@HWI-EAS443:3:28:859:275#0/1  
CATCTTTTCAATAACAGAATTTACTTTGTTAGTAATCTCG  
+HWI-EAS443:3:28:859:275#0/1  
abbabbbbbbbbaaaabbbbababbbb`bbbaaaaa\_a  
@HWI-EAS443:3:28:895:1341#0/1  
TCCCAGGATCCAGCCAGCAATGTTACATTTACCCAAATGC  
+HWI-EAS443:3:28:895:1341#0/1  
`abaU``[`aab`aaaab]X`a````aa^`aa`^aXa`]Y  
@HWI-EAS443:3:28:912:1442#0/1  
GGGGTGGACAGGGATGGTAGATGGATGGTACGGTTATCAC  
+HWI-EAS443:3:28:912:1442#0/1  
\_bbaZ``^aaaa``aaa¥a\_a`aaZa`^UaR`a¥\_``[`V  
@HWI-EAS443:3:28:918:1256#0/1  
GTGCTCTCAGGTCGGCTGCATATCCTGACCCCTGCTCAT  
+HWI-EAS443:3:28:918:1256#0/1  
a¥aaa`aa^aa¥¥a]`a]VZ[Va]]`¥¥Z^¥a¥X^^¥^^Y  
@HWI-EAS443:3:28:921:996#0/1  
CTTTGTTAGTAATCTCGTCAATGGCATTCTGTGTGCTCTT  
+HWI-EAS443:3:28:921:996#0/1  
abbbbabba\_bbaaaba\_abaaa\_¥b\_aa`b\_a^a`aa`\_  
@HWI-EAS443:3:28:934:912#0/1  
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+HWI-EAS443:3:28:934:912#0/1  
abaaaaabbabaaaaaaaaaaaaaaaa`aa\_a`a`a^a\_`\_  
@HWI-EAS443:3:28:99:1153#0/1  
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+HWI-EAS443:3:28:99:1153#0/1  
a\_Y\_b`bbaa\_b`bbaa\_ba`b]a\_a[XUZb¥^b`¥SZ`a  
@HWI-EAS443:3:29:1060:1392#0/1  
TTTTGCTCCTCTGAGTATTTTGGGTAGTCATAAGTCCCA  
+HWI-EAS443:3:29:1060:1392#0/1  
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+HWI-EAS443:3:29:107:266#0/1  
aaY`aa\_bba`aR^\_a`aa\_aa`XYZ^[`aaa^\_\_aU`BB  
@HWI-EAS443:3:29:1087:1601#0/1  
ATTTTGGGTAGTCATAAGTCCCATTTTGGACTTTCCAT  
+HWI-EAS443:3:29:1087:1601#0/1  
¥`K^ba^\_]\_\_ba\_Y¥\_WU`[aabY^a\_a\_ba`^\_a[aP  
@HWI-EAS443:3:29:1095:749#0/1  
GGCTGGTGTATAGCACCTTGGGTGTCTGACAAGTTGT  
+HWI-EAS443:3:29:1095:749#0/1  
`aaaab[babbaaaba\_`^`^Ya`a]^¥[\_`[¥\_V^U\_aY  
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CATAATCGATGAAATCTCCTGGGTAACACGTTCCATTGTC  
+HWI-EAS443:3:29:1121:1065#0/1  
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@HWI-EAS443:3:29:1126:1413#0/1  
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+HWI-EAS443:3:29:1126:1413#0/1  
ab`a`\_aabb`Zaaa¥Y\_UUQ¥Z]`]UYaa\_W\_`]\_`a[  
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GCTGGCTGGATCCTGGGAAATCCAGAGTGTGAATCACTCT  
+HWI-EAS443:3:29:1161:1235#0/1  
aaba`^¥aa\_a^]`aa`\_a^a]]^aS]Wa\_\_¥`\_`^¥S¥  
@HWI-EAS443:3:29:1218:1824#0/1  
CATCTGCATTCTGATAGAGACTTTGTTGGTCAGCACTAGT  
+HWI-EAS443:3:29:1218:1824#0/1  
a^`aS^¥¥Z`a\_P]b¥`b`VU`^\_YZLWaY^Z¥b]bVX[  
@HWI-EAS443:3:29:1241:1497#0/1  
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+HWI-EAS443:3:29:1241:1497#0/1  
a\_bbbbaaaa`bababbab]baa`b\_aab\_baa^^a`aa`  
@HWI-EAS443:3:29:1251:1229#0/1  
GAAGTCCTCGTGCTATGGGCATTCACCATCCATCTACTA  
+HWI-EAS443:3:29:1251:1229#0/1  
a`^`a`][¥][aU¥]X^V]^a\_UaWKXU\_Y]\_\_]\_S][  
@HWI-EAS443:3:29:1308:1239#0/1  
AGATTTTCATCGATTATGAGGAGCTAAGAGAGCAATTGAGC  
+HWI-EAS443:3:29:1308:1239#0/1  
abaabaaabbb`ab`aa`a]^a`a`\_`\_a`\_`\_]`^\_Y  
@HWI-EAS443:3:29:1354:64#0/1  
GTCTCAATTTTGTGCTTTTACATATTTTGGACATTTTCC  
+HWI-EAS443:3:29:1354:64#0/1  
aS[`]ZUV`\_Xa[\_S\_[UV^^YZ\_^\_]`^Y\_]ZS\_Y]ZBB



@HWI-EAS443:3:29:1383:1410#0/1  
ATCAGAATGCAGATGCATATGTTTTGTGGGGACATCAAG  
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aa`aaab`aaaa^`a`\_\_`a^aa`^^]¥^a\_`^]\_\_^  
@HWI-EAS443:3:29:1393:302#0/1  
GGACATTTTCCAATTGTGATCGGATGTATATTCTGAAATG  
+HWI-EAS443:3:29:1393:302#0/1  
aaRa[Vaaa^a\_XTGZOUm^NZ\_UZYJPXJSWGYZT[]BB  
@HWI-EAS443:3:29:1400:177#0/1  
ATTTTGTCTCCCGCTCTACTAGTGTCCAGTAATAGTTCA  
+HWI-EAS443:3:29:1400:177#0/1  
aabb]^aaba`\_\_`]ZWOS]SSVW]W]R[\_ZVLVX^]  
@HWI-EAS443:3:29:1445:397#0/1  
TTGCTCTCTTAGCTCCTCATAATCGATGAAATCTCCTGGG  
+HWI-EAS443:3:29:1445:397#0/1  
aa`\_aWb]aaaaY\_\_\_\_\_¥`a`\_]\_^\_\_[\_`\_X^^]\_^]Y  
@HWI-EAS443:3:29:1485:1810#0/1  
ACAGAATTTACTTTGTTAGTAATCTCGTCAATGGCATTCT  
+HWI-EAS443:3:29:1485:1810#0/1  
`\_V\_a^aba`aaaa\_aa^`S``a[\_ZaVZa\_\_`\_\_\_\_`U`  
@HWI-EAS443:3:29:1493:1221#0/1  
AAGTCCTCGTGCTATGGGGCATTACCATCCATCTACTAG  
+HWI-EAS443:3:29:1493:1221#0/1  
a\_]YZ]\_`b`\_`a\_^a][\_^^a\_V\_^]`\_Z^`]V\_a¥`\_`B  
@HWI-EAS443:3:29:1545:539#0/1  
ATGGTTTCTGGACATTTGGACTTACAATGCCGAAGTGT  
+HWI-EAS443:3:29:1545:539#0/1  
abbaaabaabbbaWababba`aaaa^aab]^`a`b\_aa\_\_  
@HWI-EAS443:3:29:1602:883#0/1  
CTTCCTCTGAGTATTTTGGGTAGTCATAAGTCCCATTTTT  
+HWI-EAS443:3:29:1602:883#0/1  
``Y`\_`bbbbaZ`abbaaa`ab```ba\_^a[\_`\_``aba  
@HWI-EAS443:3:29:1636:665#0/1  
GACACTGAGCTCAATTGCTCTCTTAGCTCCTCATAATCGA  
+HWI-EAS443:3:29:1636:665#0/1  
`bababbabab`a`abaab[a`bbaa`a]^`a`aba^aYa`  
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GCTTCCTCTGAGTATTTTGGGTAGTCATAAGTCCCATTTTT  
+HWI-EAS443:3:29:1736:839#0/1  
`¥\_\_XU`^b`\_\_Z`aa`]^[¥PY]R]]\_Y^^XXWWWZZ¥B  
@HWI-EAS443:3:29:1756:610#0/1  
AAAGAAGTTTGGACTACCACGATTCAAATGTGAAGAACTT  
+HWI-EAS443:3:29:1756:610#0/1  
abbbaa`bba`a`\_a\_WUa]a\_`^`\_a`\_\_a]a\_\_a\_\_Ya\_  
@HWI-EAS443:3:29:1782:711#0/1  
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+HWI-EAS443:3:29:1782:711#0/1  
abaIX¥b]^`Rab¥¥S`a\_aaa]a¥aa]a]aTZ`^Z\_`^`BB  
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+HWI-EAS443:3:29:230:723#0/1  
aa[^aaaba^a`aa`aaa`Y`aa^\_a\_`a\_]a^aa`^SZ  
@HWI-EAS443:3:29:231:136#0/1  
GAGAATTTAAATAAAAAAGTTGATGATGGTTTCCTGGACA  
+HWI-EAS443:3:29:231:136#0/1  
abaa`a`aabaaaa\_\_\_¥aZ``\_\_a\_^aSLV^\_¥^\_]^[^W  
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GTCAGCACTAGTAGATGGATGGTGAATGCCCCATAGCACG  
+HWI-EAS443:3:29:270:585#0/1  
a[a`]^[^V]a[`[\_aY\_``¥\_\_\_U\_a`¥\_Z[\_[Z^¥`^\_B  
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ATTCACCATCCATCTACTAGTGCTGACCAACAAAGTCTCT  
+HWI-EAS443:3:29:274:630#0/1  
`aab`a]b```aX\_]a\_`\_aXaa[\_Y`aYa```[^X^^^]  
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TAACCGTACCATCCATCTACCATCCCTGTCCACCCCTT  
+HWI-EAS443:3:29:306:1962#0/1  
U¥\_a^¥¥¥b\_X0\_ZHU[\_YabVWVbUEYH\_[U\_`^`bb`B  
@HWI-EAS443:3:29:313:608#0/1  
TGAGTATTTTGGGTAGTCATAAGTCCCATTTTTGACACTT  
+HWI-EAS443:3:29:313:608#0/1  
`¥^\_X\_`aaabaa]^a\_aZa`b^P``a]aaa\_a`\_\_a\_\_\_  
@HWI-EAS443:3:29:346:721#0/1  
CCGGGAGACAAAATAACATTGAAGCAACTGGAAATCTAG  
+HWI-EAS443:3:29:346:721#0/1  
]X\_^PM¥¥Z`S``X]X\_\_^\_``[Z\_VR\_[\_^^]^ZZZU[\_  
@HWI-EAS443:3:29:372:1924#0/1  
ATCGATGAAATCTCCTGGGTAACACGTTCCATTGTCTGAA  
+HWI-EAS443:3:29:372:1924#0/1  
a\_b\_bX[Z``Va[\_\_\_NT[¥S^\_aa^^WV^aa^YPL]^S^\_  
@HWI-EAS443:3:29:394:663#0/1  
GACAAGTTGTATTGCAATCGTGGACTGGTGTATCTGAAAT  
+HWI-EAS443:3:29:394:663#0/1  
aabb`a`\_ba`b\_bbb]aba`b^[abab¥a`aaaaTaa\_  
@HWI-EAS443:3:29:418:915#0/1  
ATGGCATTCTGTGTGCTCTTCAGGTCGGCTGCATATCCTG  
+HWI-EAS443:3:29:418:915#0/1  
\_U`^`a`aa]QTXZ\_T]`[^X^[Xa^¥]^`aX[`[`YBB  
@HWI-EAS443:3:29:468:116#0/1  
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+HWI-EAS443:3:29:468:116#0/1  
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@HWI-EAS443:3:29:536:262#0/1  
CACTGAGCTCAATTGCTCTCTTAGCTCCTCATAATCGATG  
+HWI-EAS443:3:29:536:262#0/1  
abbababb`ba]abbaaaaXa```a\_\_aaa`\_\_]\_]a\_`\_  
@HWI-EAS443:3:29:558:115#0/1  
ACACTTTCCATGCACGTGTTATCGCATTGTGGTAAAATT  
+HWI-EAS443:3:29:558:115#0/1  
^¥^`\_aaa^`a¥^]`¥`[a\_aa`[]``aa\_b^¥a\_`[\_¥



+HWI-EAS443:3:29:861:1043#0/1  
aba^W^\_aba`aaaaaaaaa^^¥`aa^aaaaa\_a\_a^aY  
@HWI-EAS443:3:29:872:648#0/1  
GTGGGGACATCAAGATACAGCAAGAAGTTCAAGCCGGAAA  
+HWI-EAS443:3:29:872:648#0/1  
aUaaaYV[`aa`a\_\_a`\_a`\_]\_`a\_[aX^^a]\_^`a`[Y\_  
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GCCCCATTGCATTTGGGTAAATGTAACATTGCTGGCTGGA  
+HWI-EAS443:3:29:941:1155#0/1  
\_bb`¥R[^a\_^ab`^Y[¥^\_Q\_[Pa`[aa\_XZ]a^`Y\_`^  
@HWI-EAS443:3:29:948:312#0/1  
GAAGTCCTCGTGCTATGGGGCATTACCATCCATCTACTA  
+HWI-EAS443:3:29:948:312#0/1  
aaba\_a`aab\_a\_`Za[a\_`VW\_`\_`\_ZR`[\_`Q\_`\_ZaW^]  
@HWI-EAS443:3:29:968:1166#0/1  
ATGAGGACATGCTGCCGTTACACCTTTGTTTCGAGTCATGA  
+HWI-EAS443:3:29:968:1166#0/1  
aa`a]aaabaaaa\_\_a]^\_Z\_[[^\_\_UY`[ZZ]¥^\_^VU  
@HWI-EAS443:3:29:973:1250#0/1  
ACTGAGCTCAATTGCTCTTAGCTCCTCATAATCGATGA  
+HWI-EAS443:3:29:973:1250#0/1  
aa^aaaba`aa\_a\_`\_a]\_aaaa\_\_a`\_^^\_\_\_\_^\_^[\_  
@HWI-EAS443:3:2:1002:1985#0/1  
GATCCTGGGAAATCCAGAGTGTGAATCACTCTCCACAGCA  
+HWI-EAS443:3:2:1002:1985#0/1  
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@HWI-EAS443:3:2:1008:248#0/1  
ATTTGTGGTAAAATTCAAAGCAGCCGTTTCCAATTCCTT  
+HWI-EAS443:3:2:1008:248#0/1  
`a`ab\_b\_Laa`^aa`a`^`\_\_\_\_a^^a\_\_\_\_]]\_\_`\_]Z]^  
@HWI-EAS443:3:2:1014:1593#0/1  
AGCTTTTTGCTCCAGCATGAGGACATGCTGCCGTTACACC  
+HWI-EAS443:3:2:1014:1593#0/1  
YYQYV^a]\_R[[IUVK[^aZW]a`aZREW¥QQ]aV`VBBB  
@HWI-EAS443:3:2:1052:1085#0/1  
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+HWI-EAS443:3:2:1052:1085#0/1  
Yaba^Ma\_]abbaa\_`ab¥[bbb`abbaababbaaaa`b  
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ATTCTGATAGAGACTTTGTTGGTCAGCACTAGTAGATGGA  
+HWI-EAS443:3:2:1063:624#0/1  
^aaS\_^F]^`b`¥`b]]V`bb]]`^^Z`X`]`^Y`]`aX  
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GATCGGATGTATATTCTGAAATGGGAGGCTGGTGTTTATA  
+HWI-EAS443:3:2:1069:819#0/1  
a\_\_Za`\_\_^SM^Y¥]RYZZ[U^[aXNVWDKX¥FVBBBBBBB  
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CACGTGCATGGAAAGTGTCAAAAATGGGACTTATGACTAC  
+HWI-EAS443:3:2:1076:1676#0/1  
ab`ba`bbbbbab`a^aa`aababbb`a]baaba`\_`aY



+HWI-EAS443:3:2:1485:1553#0/1  
a`]a][`aX¥Za`\_PV`aV`a]Y]^Y\_V]\_^PR^]UV`BB  
@HWI-EAS443:3:2:1526:130#0/1  
GGGACATCAAGATACAGCAAGAAGTTCAAGCCGAAATAG  
+HWI-EAS443:3:2:1526:130#0/1  
Yab`aab\_\_aa\_a`aaa`aaa^^aU^^a\_\_SU\_\_\_^[^^]  
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CCAGGATCCAGCCAGCAATGTTACATTTACCCAAATGCAA  
+HWI-EAS443:3:2:1535:1085#0/1  
a`bbbbaaaab\_]`aSabbaaa`^ababaW]Xa`aaaY\_a  
@HWI-EAS443:3:2:1536:1429#0/1  
ACGGTTATCACCATCAAATGAGCAGGGTCAGGATATGC  
+HWI-EAS443:3:2:1536:1429#0/1  
Z¥a`[b^\_ZUH``[OZ]aa`Z\_V\_Y\_\_ZPLLruz[BBBB  
@HWI-EAS443:3:2:1756:1053#0/1  
ATGAACTTGTCTTGGGAATATCTCAAACCTTTCAAATGA  
+HWI-EAS443:3:2:1756:1053#0/1  
`ab`b\_bab\_Xaaaaaa\_a`aaZa[aaaXS`\_a`¥\_a``  
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+HWI-EAS443:3:2:1774:1233#0/1  
a\_[[Z^^^STVXTP]LT[[[YYY]GNZZUXOVV]VTFX  
@HWI-EAS443:3:2:177:583#0/1  
TTTCAGAATATACATCCGATCACAATTGGAAAATGTCCAA  
+HWI-EAS443:3:2:177:583#0/1  
^b¥Q`^RVaaZS¥\_a¥F^a`¥]H[^ZVX^RY\_XX\_YS`WB  
@HWI-EAS443:3:2:192:369#0/1  
CCAGTACCAATGAACTGGCGACAGTTGAATAGATCGCCAA  
+HWI-EAS443:3:2:192:369#0/1  
aaaa`a`\_abbaa```a\_\_a^`^a]\_\_W\_\_\_`\_¥Y`^^^^  
@HWI-EAS443:3:2:248:210#0/1  
GATGGTTTCTGGACATTTGGACTTACAATGCCGAACTGT  
+HWI-EAS443:3:2:248:210#0/1  
aaaaa^a]a\_a]¥]^aY`aa\_^a]`]^`\_^Z]Y\_]R^¥Z  
@HWI-EAS443:3:2:287:725#0/1  
AAGAGAGCAATTGAGCTCAGTGTTCATCATTGAAAGGTTT  
+HWI-EAS443:3:2:287:725#0/1  
`[\_]`Y\_bbb^Z[\_a`a[Z\_ab^TW`Y^aa`b\_VN\_ZF\_\_\_  
@HWI-EAS443:3:2:365:114#0/1  
GAGCAATTGAGCTCAGTGTTCATCATTGAAAGGTTTGGAGA  
+HWI-EAS443:3:2:365:114#0/1  
aa]J]ZUN]YW][XZRU\_VM^¥PY]]`]YX\_[U^¥]XBB  
@HWI-EAS443:3:2:398:1474#0/1  
CAGTTCGGCATTGTAAGTCCAAATGTCCAGGAAACCATCA  
+HWI-EAS443:3:2:398:1474#0/1  
^a`b`b^bbbbbabb`aaabbbba]a`baa^aa\_\_a`Wa  
@HWI-EAS443:3:2:400:841#0/1  
CATTCTGTGTGCTCTTCAGGTCGGCTGCATATCCTGACCC  
+HWI-EAS443:3:2:400:841#0/1  
Lab`[\_]Zb]babab`bbbb^Zb`SZba``abZ`aaaSXY

@HWI-EAS443:3:2:412:409#0/1  
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+HWI-EAS443:3:2:412:409#0/1  
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AATGAAACCGCAATGGCCCCAAATAGGCCTCTAGATTGA  
+HWI-EAS443:3:2:444:1033#0/1  
aUX^a\_^^UZ]\_`\_Z\_GQ\_] ^a^]ZVWVSGXWUXZX]OZB  
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+HWI-EAS443:3:2:47:1732#0/1  
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+HWI-EAS443:3:2:490:832#0/1  
`aaa\_aZ\_aR]Y^^^]\_\_YYaa\_\_\_\_\_V\_]\_\_^U^] ^WV  
@HWI-EAS443:3:2:499:1137#0/1  
GGGGACATCAAGATACAGCAAGAAGTTCAAGCCGGAAATA  
+HWI-EAS443:3:2:499:1137#0/1  
aba\_aaaaa`\_a\_aa]abaaaa`\_aZ^`\_`\_Xa`^\_]a\_  
@HWI-EAS443:3:2:556:1056#0/1  
GAGCAATTGAGCTCAGTGTCATCATTTGAAAGGTTTGAGA  
+HWI-EAS443:3:2:556:1056#0/1  
a`\_¥^`\_`aa\_aY`]\_\_\_a]]`\_^\_\_^`a]¥\_\_UW\_^^`\_^  
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AATCGATGAAATCTCCTGGGTAACACGTTCCATTGTCTGA  
+HWI-EAS443:3:2:589:1159#0/1  
aaa`ba`a`]a`a[]`a¥W¥`^W`X^\_XRW^`\_]X^]X  
@HWI-EAS443:3:2:653:621#0/1  
GAGCTCAATTGCTCTCTTAGCTCCTCATAATCGATGAAAT  
+HWI-EAS443:3:2:653:621#0/1  
a\_\_a`\_`aa\_a`a\_a\_aaa\_\_a^\_a```a`a^\_\_\_\_`^`^  
@HWI-EAS443:3:2:666:307#0/1  
AGCCAGTTAAAAACAATGCCAAGGAAATTGGAAACGGCT  
+HWI-EAS443:3:2:666:307#0/1  
^[¥XH\_Z]XaaXX]]\_[\_a]X\_]a]RP]\_Y^YQOS[\_]UY  
@HWI-EAS443:3:2:743:539#0/1  
TCTTTACCTACTGCTGTGAACTGTGTATTCATCTTTTCAA  
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+HWI-EAS443:3:2:769:180#0/1  
aO^`a`]V\_`^]X]]][X¥^^^] ^] ^UV[UYV^Y^OVYOVYY  
@HWI-EAS443:3:2:783:53#0/1  
CCCCCTTCAATGAAACCGCAATGGCCCCAAATAGGCCTC

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^`ZK¥¥XR¥bbaa`TPZa`¥`¥bZLZTQV\_`^V\_`]K SUR  
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+HWI-EAS443:3:2:88:1422#0/1  
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a`^W^]a^[P[Y^][XW[[[aXJVP\_[PVY[¥WUQXY¥XB  
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+HWI-EAS443:3:2:966:364#0/1  
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+HWI-EAS443:3:30:1110:266#0/1  
a^abaaU`a`a`a`b``aaa]```adWaa^aa`aa``¥Za  
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GCTTCCTCTGAGTATTTTGGGTAGTCATAAGTCCCATTTT  
+HWI-EAS443:3:30:1121:1147#0/1  
a`\_[VKW`WT¥^L[]Za\_[]YWY`\_]YQS¥]^]\_a  
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GAGATTTTCATCGATTATGAGGAGCTAAGAGAGCAATTGAG  
+HWI-EAS443:3:30:1146:1865#0/1  
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+HWI-EAS443:3:30:1152:1216#0/1  
a]¥Ya\_\_\_\_a¥\_`\_`aNaa\_Ta`a`]\_\_\_\_]^`X[\_`^\_aP]  
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+HWI-EAS443:3:30:1161:426#0/1  
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+HWI-EAS443:3:30:1217:26#0/1  
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+HWI-EAS443:3:30:1239:1172#0/1  
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+HWI-EAS443:3:30:1276:620#0/1  
Yb]b\_a]¥bab`a]bVbVbXI]\_ZaJ^aNyaaaVSa^\_Ua



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a^bb\_aa`babaab\_`abba`]aaaa`aaaa^a]`aa  
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+HWI-EAS443:3:30:141:670#0/1  
aa\_aabaa]^abbbba^`aaa\_aaa`aZ`a`]`a\_^`]  
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+HWI-EAS443:3:30:1424:1198#0/1  
aa`a\_¥\_]^[a\_^^`]\_\_^[Y¥W^^[U]^T^P[Z¥]  
@HWI-EAS443:3:30:1431:53#0/1  
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+HWI-EAS443:3:30:1431:53#0/1  
aa\_]P¥\_a\_a`[`a`^^`U`^`¥¥WW\_\_TLX`U^]W¥SUW  
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aa[b`aaa`bbbaaa\_a^aXaa^aR]aaa^\_Y`]^\_^\_Z  
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+HWI-EAS443:3:30:1522:198#0/1  
ZW\_ZZ`bXZWWbba¥Z\_a`^^`bab^GaV\_\_aaZHG`ZQ`  
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+HWI-EAS443:3:30:1533:1981#0/1  
]``^a¥TTb[F]Z\_TT`\_]T¥ZXW`ab^QNY¥\_a`a]\_a  
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+HWI-EAS443:3:30:1537:1487#0/1  
aa\_b\_aabba`aaa`aa\_aZZ\_] [aZ\_\_\_\_^`\_`[Y\_]^\_  
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+HWI-EAS443:3:30:156:1743#0/1  
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+HWI-EAS443:3:30:1571:545#0/1  
^bZK\_¥\_\_[[W[aa\_\_I¥U¥ba]bab^``ZS\_aT`^`^]Z  
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+HWI-EAS443:3:30:1599:1979#0/1  
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+HWI-EAS443:3:30:1656:1064#0/1  
a``bb`aaa`]a`aa`aaa]\_aa\_a\_a\_\_`aa]`W^V]S[  
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+HWI-EAS443:3:30:1679:1742#0/1  
a¥S[G^^^YQ^^W]]]\_\_OR]X^ZX^]VZW]Z^RW[Z]  
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+HWI-EAS443:3:30:16:1827#0/1  
aba^Za^a^aZbaXa]a`baZaaa^``UXUY`W`\_``^^W  
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a`XW¥FTSIST\_\_\_¥VZNLTYQ^XOFS]\_W\_YUYSLVSBB  
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+HWI-EAS443:3:30:1743:211#0/1  
aa`^]^\_YbY`a¥aa``aaa\_a\_Z``ZZ]\_T\_SP\_^WW¥¥  
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+HWI-EAS443:3:30:185:1206#0/1  
`\_a`aa`a`abbaaaa`[aaaa¥baaaaa\_]`a`a`[T  
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+HWI-EAS443:3:30:193:1619#0/1  
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+HWI-EAS443:3:30:212:288#0/1  
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+HWI-EAS443:3:30:237:582#0/1  
^R^aa`aaa`a`aa[Xa\_``^aa]\_\_\_X^^\_\_\_^]^\_`ZZ  
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+HWI-EAS443:3:30:245:397#0/1  
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+HWI-EAS443:3:30:256:1711#0/1  
H^baS\_¥]bb`Z^Z\_SX\_¥[P^ba`Yaab¥\_IWX[F^^``  
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+HWI-EAS443:3:30:259:244#0/1  
aa^aaYaa`aaa\_a`]aYaaa^Z¥\_YY]Y]\_`^I\_RS]\_Y  
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+HWI-EAS443:3:30:299:19#0/1  
a``aWZ]\_[¥^[\_[SX¥ZXXTOVX¥YYZUPMWWYUYW  
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+HWI-EAS443:3:30:342:817#0/1  
aY\_aX¥OGU[\_`]`\_aaa\_a````\_^\_a`\_\_^X\_[W]^W]  
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+HWI-EAS443:3:30:372:594#0/1  
a\_\_V``bW^^aa^\_ababa`[XV[`a^`aa]\_¥\_\_a\_X[\_  
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¥aabb[bbbabbabb]bb^aaa]^`^¥`\_]aa^M]^`YY  
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aa\_]b\_Ya^]a`\_]aa]^`b\_a`\_TT[Xa^¥^^]^\_TB  
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+HWI-EAS443:3:30:745:1551#0/1  
a`\_aaaa`a^baaaa`[[^a^\_`\_aZ¥```\_`\_]\_U\_\_  
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+HWI-EAS443:3:30:803:770#0/1  
a`V`VYZ][Y\_\_^MW^^[LZ``YaX[\_]a\_V\_``[RMS^\_  
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+HWI-EAS443:3:30:81:2000#0/1  
aa]\_^b`\_Z\_VQ]^¥]^`¥^X\_]`\_^Y]]R¥^]XQX]UV]V  
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+HWI-EAS443:3:30:843:1994#0/1  
a\_abb`^a`a`a`¥^\_UTT```\_V\_`^ZPU[SXX^V¥W¥[  
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AGCAAATCCTACATTAATGATAAAGGGAAAGAAGTCCTCG  
+HWI-EAS443:3:30:866:39#0/1  
^baa`a`a`¥Y`abaa\_^]]a\_\_```^^¥¥]\_``]VGYP`  
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+HWI-EAS443:3:30:925:1758#0/1  
a`^\_aaba^aaba`\_aaaa`\_N¥aa\_aaa`\_\_aaa``a\_  
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a`b\_[\_a^X[a^```\_`ab\_^aa`\_aaa]\_\_X\_`^aQ`\_^^  
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+HWI-EAS443:3:30:969:1021#0/1  
abaa`^aa`]T)```]`\_a`a`aa`\_\_\_Y`\_\_^\_]YW  
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a¥[a[[aaZ^baaba\_\_a`aaab`\_\_aWZ`aa`\_aX\_]a  
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aa`a`a`a`\_`\_`\_a`^`\_]\_\_WV`¥Q¥U^`¥^¥\_UUWUVW  
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+HWI-EAS443:3:31:1023:938#0/1  
a]]aabbbaaaaaaaaa`\_aa`^`\_a`^`a`\_`^]\_\_``[`Y  
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@HWI-EAS443:3:31:1121:169#0/1  
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+HWI-EAS443:3:31:1121:169#0/1  
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+HWI-EAS443:3:31:1143:1433#0/1  
[``Z\_a\_[\_a\_YJ^Laa`]¥babbabaabbaaaa`Kb\_ba  
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+HWI-EAS443:3:31:1155:494#0/1  
\_R\_aba`aZQOW\_RY]VRW^PMVUN^ZRYQZWYPNUTTZN  
@HWI-EAS443:3:31:116:1680#0/1  
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+HWI-EAS443:3:31:116:1680#0/1  
abbabbbbV`N^aa```]¥`b^ZUaaRY^aY^aa`Xaab^

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^U¥\_\_`\_bb`Y\_[U^X`¥X[^\_`¥]aa^[V[YOYZVYPMN  
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aaaa`a^a^a[a¥aaaa`^`\_\_]^)^\_^^¥]\_¥ZRTTZV  
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+HWI-EAS443:3:31:1210:1251#0/1  
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+HWI-EAS443:3:31:1437:543#0/1  
abaa\_aa\_aaa\_\_a`\_`a`a`¥\_\_WX\_\_\_\_\_`\_¥^^^a\_W  
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+HWI-EAS443:3:31:1681:1573#0/1  
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@HWI-EAS443:3:31:1690:1080#0/1  
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+HWI-EAS443:3:31:1690:1080#0/1  
\_ZG¥]YHYZQR\_[ZIZNaNPZ`]Y]MW¥]WVHDXZYY]\_N  
@HWI-EAS443:3:31:1720:747#0/1  
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+HWI-EAS443:3:31:1720:747#0/1  
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+HWI-EAS443:3:31:1726:1540#0/1  
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+HWI-EAS443:3:31:180:111#0/1  
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+HWI-EAS443:3:31:198:889#0/1  
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+HWI-EAS443:3:31:250:1073#0/1  
^S`][`a^a]`aX`^`¥]^Y]Zba[a\_W¥YQaa\_US^\_QN  
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+HWI-EAS443:3:31:337:172#0/1  
aaaaaaaa\_a`aa``aaa`a`aaZ¥`Y]^a\_\_ZY\_^]^^^  
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+HWI-EAS443:3:31:439:1346#0/1  
aaaaaaaa¥X`aaa]`\_aabaaaa`\_```OT\_`^^¥][\_\_  
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+HWI-EAS443:3:31:492:680#0/1  
`¥\_]``0^^[¥VX\_\_```\_`\_\_\_¥a]¥]a`]V^X¥[^¥Q  
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+HWI-EAS443:3:31:52:1919#0/1  
abba`^``]\_a¥¥ZYaa\_\_a\_^]\_Wa`^¥Z¥Y^^^[\_Y\_YV  
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+HWI-EAS443:3:31:543:692#0/1  
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+HWI-EAS443:3:31:561:1881#0/1  
aY[^`¥]`\_ba¥ZX[W]\_aa`\_]a]ZZXZU¥YY¥\_^]a`  
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+HWI-EAS443:3:31:566:452#0/1  
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+HWI-EAS443:3:31:592:1036#0/1  
aZ^]aaaab`\_`[`aaa`aa`\_\_a`a\_a\_]\_]a\_^`\_`^^  
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GGCCATTGCCGTTTCATTGAAGGGGGTGGACAGGGATG  
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\_abb]abaa`]Mbabab`U\_U]Xab\_ZIT`a^a`\_`W\_a





+HWI-EAS443:3:31:909:1304#0/1  
^Ua[S`bY^R0^\_a\_a`SaW`a`XVUG`]\_]¥]ZVU\_\_\_\_  
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@HWI-EAS443:3:31:939:723#0/1  
TGCTTTGAATTTTACCACAAATGCGATAACACGTGCATGG  
+HWI-EAS443:3:31:939:723#0/1  
¥\_Y[``a```abab\_Z`aZ^a^\_¥ba^\_¥`^^`N\_]¥b`  
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AAAGTGTCAAAAATGGGACTTATGACTACCCAAAATACTC  
+HWI-EAS443:3:31:942:1560#0/1  
aaa¥U]V``a````aa\_a\_\_\_\_\_`aa\_aX¥¥``\_]]]\_¥  
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+HWI-EAS443:3:31:962:245#0/1  
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+HWI-EAS443:3:31:973:1093#0/1  
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GCTATTTCCGGCTTGAACCTTCTTGCTGTATCTTGATGTCC  
+HWI-EAS443:3:32:1025:607#0/1  
aaa\_bbbba]``\_b`[^\_a`¥\_a^Z\_aY\_]¥`a``^^[aa  
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+HWI-EAS443:3:32:1039:449#0/1  
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+HWI-EAS443:3:32:1047:538#0/1  
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+HWI-EAS443:3:32:1050:751#0/1  
\_bbb\_aY^ab^aaIa`\_UZaR]aWZ\_]SYababa¥¥aa`a  
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+HWI-EAS443:3:32:1055:1378#0/1  
aa`\_\_a`^¥b`^[]`aa[\_YY¥¥\_\_\_^a\_[^VLN`^¥\_Y^  
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+HWI-EAS443:3:32:1140:1737#0/1  
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+HWI-EAS443:3:32:1142:1997#0/1  
¥abababba\_\_bbbaba`^ba\_abaa^b`bba\_X`ababa  
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+HWI-EAS443:3:32:1200:1211#0/1  
^baab`baaabbbb`\_aa`a^abaaa`^^`aaa^abaa`\_`  
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TGCTATTTCCGGCTTGAACCTTCTTGCTGTATCTTGATGTC  
+HWI-EAS443:3:32:1204:1074#0/1  
¥T``\_`^`^bb`]^`^\_¥FX0\_`^`[[OYa[^``\_`WWYN¥Q^  
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+HWI-EAS443:3:32:1211:1596#0/1  
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+HWI-EAS443:3:32:1218:1010#0/1  
\_`\_¥]^`b``abaY`¥XZZ\_\_[\_Q`¥¥Y]Z\_N\_]``^^^]  
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+HWI-EAS443:3:32:1362:20#0/1  
ab`aaabbaa`\_`a\_Z`^\_\_]\_^R]X\_VXX^X^ZVU\_]QT  
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^^`aYab\_a¥W\_^\_RZ][[\_RMW]^¥]¥YX\_`X`\_Za¥¥  
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+HWI-EAS443:3:32:1588:1523#0/1  
a`QXWM\_^`R[]\_a``\_]^S\_\_¥NZ]WS^`XOZ^S[]¥W  
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aZS]]aa`\_]\_^¥¥¥]aa¥[UY[UYYM¥^¥U^0ORUUUWS  
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+HWI-EAS443:3:32:226:518#0/1  
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+HWI-EAS443:3:32:365:567#0/1  
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+HWI-EAS443:3:32:410:1174#0/1  
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TCCGGCTTGAAC TTCTTGCTGTATCTTGATGTCCCCACAA  
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`aa`a\_a\_T^ba^^^^\_UZ^[Y\_¥Y^¥M[¥^W\_^]VRSPU

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`a[S\_]^X`\_bbb]aaa\_a\_\_aa\_aa\_a`]``\_a`T]W^  
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GAGCAATTGAGCTCAGTGCATCATTGAAAGGTTTGAGA  
+HWI-EAS443:3:32:450:435#0/1  
aa\_aaaaabaa`aa\_`\_\_\_a``\_`^aa``^^`\_U`^^`^  
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CAATTGCTCTTAGCTCCTCATAATCGATGAAATCTCCT  
+HWI-EAS443:3:32:511:895#0/1  
^T^a\_Z¥a^MS]YZ\_a\_\_b`a¥[^YWaa\_\_]¥^¥TV]``]  
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CATGAGCTTGCTGTGGAGAGTGATTCACACTCTGGATTTC  
+HWI-EAS443:3:32:587:394#0/1  
¥[] [Z\_]Q\_bbb^¥\_YH¥\_L^]a^Z^\_TW``b\_XTVXU]  
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+HWI-EAS443:3:32:600:1407#0/1  
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TGAAGAATTATATGAAAAGGTAAGAAGCCAGTAAAAAA  
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+HWI-EAS443:3:32:633:1542#0/1  
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+HWI-EAS443:3:32:664:1505#0/1  
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+HWI-EAS443:3:32:731:1297#0/1  
^]`a¥[a¥aabb^aa`Z¥\_\_a\_`¥¥^YYZ\_`^^[]`\_YV  
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+HWI-EAS443:3:32:767:1329#0/1  
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+HWI-EAS443:3:32:772:484#0/1  
aba`b\_abaa``aSaaaaa][\_`a^a¥aaaa\_`^`\_aaa[  
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+HWI-EAS443:3:32:823:1316#0/1  
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+HWI-EAS443:3:32:83:1360#0/1  
¥Yab¥RWP¥` `]YS]¥\_Z\_abaa\_V\_ba`a]\_aX`^` `]U  
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^]`` `]a`\_`aa`` `]a`\_`¥\_] `\_^]]^^^a`\_`  
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GCAGGGGTCAGGATATGCAGCCGACCTGAAGAGCACACAG  
+HWI-EAS443:3:32:916:1173#0/1  
aaa^]\_XNa]aa`^a]a`aa^\_`Y^^`YPaYXS]KW[]Z  
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+HWI-EAS443:3:32:916:2002#0/1  
aabaababa][aaaaaa^\_`aa`Zabaaa`YaaW` `` \_  
@HWI-EAS443:3:32:944:459#0/1  
GGGACATCAAGATACAGCAAGAAGTTCAAGCCGGAAATA  
+HWI-EAS443:3:32:944:459#0/1  
abaaaaaaaaaba`a`aaaabb`\_a[^\_a\_a\_aa^^\_a`\_`  
@HWI-EAS443:3:32:957:1929#0/1  
TTCCTCTGAGTATTTTGGGTAGTCATAAGTCCCATTTTTG  
+HWI-EAS443:3:32:957:1929#0/1  
aab`aba`bb¥aaa`aaaaWaa`\_`a`aa^`` `a` ` ` ` \_  
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+HWI-EAS443:3:33:1039:559#0/1  
W]¥\_aa\_[\_HYa` ` ¥`^¥\_\_Z\_¥X^ `[]SuaZa`^^` ` [  
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GCTGCTTTGAATTTTACCACAAATGCGATAACACGTGCAT  
+HWI-EAS443:3:33:1044:1611#0/1  
a¥UX` ` `]a`\_]YR^[a¥JW\_\_^Z^\_XW]^^]U^^X\_Z¥X  
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+HWI-EAS443:3:33:1048:1632#0/1  
\_aaaaZaaa[\_[aa[\_a`\_`]V` \_\_a\_\_\_ZaY\_V\_¥\_YQ  
@HWI-EAS443:3:33:1052:412#0/1  
GGGACATCAAGATACAGCAAGAAGTTCAAGCCGGAAATA  
+HWI-EAS443:3:33:1052:412#0/1  
¥X`a`aa`aa\_a`\_`^]`^`\_` \_\_`VSYH¥SR[[VZ^^^  
@HWI-EAS443:3:33:1059:982#0/1  
CTCTTTACCTACTGCTGTGAAGTGTGATTCATCTTTTCA  
+HWI-EAS443:3:33:1059:982#0/1  
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+HWI-EAS443:3:33:1146:139#0/1  
`¥^aa`aa\_a\_\_Y\_Z^`a`Y\_]Z[U`U[Z\_\_WVUPUWSWV  
@HWI-EAS443:3:33:1174:1036#0/1  
GCTGGCTGGATCCTGGGAAATCCAGAGTGTGAATCACTCT  
+HWI-EAS443:3:33:1174:1036#0/1  
[aa`a\_aaabaaa`\_^\_W`\_`\_]`\_^T¥RWZTYS\_¥^Z[  
@HWI-EAS443:3:33:1208:279#0/1  
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+HWI-EAS443:3:33:1208:279#0/1  
``\_aa\_aVaaaaV^Zaab`\_\_baaaa\_\_\_`\_¥G^SG¥]O\_  
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+HWI-EAS443:3:33:1227:415#0/1  
^a`^`aZ^b`b`a`ab`aXb`a\_X\_`^aaa^XDX]\_a^^^  
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+HWI-EAS443:3:33:1229:347#0/1  
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+HWI-EAS443:3:33:1282:1464#0/1  
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+HWI-EAS443:3:33:1329:1201#0/1  
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+HWI-EAS443:3:33:136:1130#0/1  
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+HWI-EAS443:3:33:1464:1106#0/1  
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+HWI-EAS443:3:33:1563:410#0/1  
^Za`¥Z]aba]aa^ba¥aaaaaY¥aaZ^^`][QQ[YP[\_^  
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+HWI-EAS443:3:33:1616:1413#0/1  
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+HWI-EAS443:3:33:1624:1619#0/1  
a\_\_T`\_`\_`aaa[^¥[aaV\_a\_ZP^bQaZTJJ]S[\_¥ZX\_N  
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+HWI-EAS443:3:33:1708:1667#0/1  
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+HWI-EAS443:3:33:1753:260#0/1  
abaa[¥`\_\_aa\_`^`b^`\_\_]aW^Za^`PTU]OWW^W[  
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+HWI-EAS443:3:33:17:1284#0/1  
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+HWI-EAS443:3:33:192:763#0/1  
ab`abaa`a\_\_aa\_`a`a^`aa`\_a\_^\_]^\_\_\_\_`  
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TCTCTGTTAATTTTGCTTCTGAGTATTTTGGGTAGT  
+HWI-EAS443:3:33:211:995#0/1  
^baa[aLa\_a¥]a¥^a`V\_b\_^^a[^\_ZZ^`]]`¥¥QZVS  
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+HWI-EAS443:3:33:222:1836#0/1  
\_]\_aYaa`bb]bbbbbb`bbb\_T\_`aaaaba\_aaa]b`]  
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GCGATAACACGTGCATGGAAAGTGTCAAAAATGGGACTTA  
+HWI-EAS443:3:33:266:1226#0/1  
Y``\_V\_aaab\_a\_V]`SZabaXa^aabb^^`a]a`a`\_a  
@HWI-EAS443:3:33:291:735#0/1  
CACGTGTATCGCATTGTGGTAAAATTCAAAGCAGCCGT  
+HWI-EAS443:3:33:291:735#0/1  
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+HWI-EAS443:3:33:32:912#0/1  
aa`¥^babaaba[aa`W^]V¥Q¥X\_`^`¥`R\_`^V[^a  
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+HWI-EAS443:3:33:335:823#0/1  
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GAGCTCAATTGCTCTTTAGCTCCTCATAATCGATGAAAT  
+HWI-EAS443:3:33:362:1648#0/1  
ab\_b`ba`ba^b[b\_bba]aaaabaa\_`b`aa\_\_¥``a¥  
@HWI-EAS443:3:33:390:372#0/1  
GAACGTGTTACCCAGGAGATTTTCATCGATTATGAGGAGCT  
+HWI-EAS443:3:33:390:372#0/1  
aaaaa`a^a``\_aaaYaaa\_a`^\_\_\_\_]\_^\_]\_\_[]^X¥



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aa`¥`a^aa\_abaaaa\_J\_a]`a`Y¥\_\_a\_\_^UU\_`\_[\_\_  
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CCTGACCCCTGCTCATTTTGTGGTATAACCGTACCATC  
+HWI-EAS443:3:33:491:627#0/1  
aba¥ba\_\_\_\_\_]a¥]`¥TX¥Q¥UU]UY\_VR¥T\_NLRRT¥UU  
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+HWI-EAS443:3:33:498:898#0/1  
¥`babbbab`aaba`bbabbbab¥b^\_bbbaaG`\_`aa`  
@HWI-EAS443:3:33:506:979#0/1  
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+HWI-EAS443:3:33:506:979#0/1  
aabbabaa[aababaaaaaaaa``aaaa``\_a\_]`\_a`]]  
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+HWI-EAS443:3:33:517:1312#0/1  
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+HWI-EAS443:3:33:539:1312#0/1  
ab\_abbbaa`aa`aba\_\_aa\_`a`Z\_^\_a¥`¥\_W\_`ZY\_]W  
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+HWI-EAS443:3:33:53:783#0/1  
``ab`a\_a^`a`\_\_¥]aaWaa\_a\_\_\_\_\_`a`\_`YJY\_`^`  
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a`WV\_a`bbX`a^Q`aZaab\_a]WTWHN\_¥\_TJINRM^V¥  
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+HWI-EAS443:3:33:617:1690#0/1  
a^aa¥aa`PW[\_a]\_`^\_^`¥\_`^aa\_`^\_]ZUTT]]\_ZZ  
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+HWI-EAS443:3:33:62:158#0/1  
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+HWI-EAS443:3:33:640:591#0/1  
\_V\_aabbbbbaaa\_aaaaab[aaXa`YZ``^XXM^Z\_`^^\_  
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TGAGGAGCTAAGAGAGCAATTGAGCTCAGTGCATCATTT  
+HWI-EAS443:3:33:665:122#0/1  
\_]a¥aaa¥aaaaaa\_aaaa`U`X]][^`]aVDU\_ZW``\_  
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@HWI-EAS443:3:34:1052:68#0/1  
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+HWI-EAS443:3:34:1052:68#0/1  
`\_SS]^ZTaa`aa¥RRRTNVTZ[[¥T^\_RYWPV[BBBBBB  
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CTTCCTCTGAGTATTTTGGGTAGTCATAAGTCCCATTTTT  
+HWI-EAS443:3:34:1069:1549#0/1  
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+HWI-EAS443:3:34:1082:499#0/1  
Z¥Z\_QVUYa\_XaYaUYU\_ZY]XY`^YWZP]YDY[[[`aaa  
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S^``^¥^a\_V¥`a^T]^a`a¥KYM]^\_][Z^ZGMYZMZ  
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+HWI-EAS443:3:34:1126:1231#0/1  
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+HWI-EAS443:3:34:1148:154#0/1  
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a`baZ¥Z`\_`a]^````a^`a`]baXaa¥\_aa`X[`¥^\_^  
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]aa`a\_a^aaaa^^`¥\_\_^^`\_`^\_\_aaba]a[¥a[BB  
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+HWI-EAS443:3:34:1276:916#0/1  
a^`\_aUaaaa\_\_V`\_TT¥^`\_`\_VX`W^ZU¥ORNVS S¥B  
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+HWI-EAS443:3:34:1282:1750#0/1  
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+HWI-EAS443:3:34:1286:938#0/1  
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+HWI-EAS443:3:34:1287:1196#0/1  
a\_a`[¥ZZaa`a`a^`a`^¥```]V`V¥\_a\_^WTLTZ]Z  
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+HWI-EAS443:3:34:129:1287#0/1  
aaabaa^X¥aa```\_Z]\_Va¥]`^`\_S[[^\_] [YRSUU^  
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+HWI-EAS443:3:34:1320:1516#0/1  
ab`[YT`ba¥`\_\_`¥`^`]^`\_`a¥F[U\_aVX[X]¥S\_QY  
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+HWI-EAS443:3:34:1388:34#0/1  
aaaaaab`bb`a`aaaZZP\_¥¥Z¥^ZZ[]a`^¥a[QZ]\_^  
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+HWI-EAS443:3:34:1482:1202#0/1  
ab`b]``¥a¥US¥¥JU`^¥V\_`V\_^YZ¥Z`aa^]\_^`U\_  
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CTAGATTTCCAGTTGCTTCCAATGTTATTTTGTCTCCCGG  
+HWI-EAS443:3:34:148:982#0/1  
aaaa¥aaaa`a^\_\_a``aa\_a\_dW^\_\_a\_^VW`^\_] [SW  
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+HWI-EAS443:3:34:1608:1075#0/1  
a^`\_a`0\_a]`aaa\_b\_`[\_]\_¥`\_`a`a`^ [PU` [PWPZB

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+HWI-EAS443:3:34:1663:1763#0/1  
a`aa\_\_X]aa^Y\_aaaa\_a^^^a`WQ\_\_\_\_\_^¥¥\_OWBBB  
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+HWI-EAS443:3:34:1680:845#0/1  
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+HWI-EAS443:3:34:1707:1954#0/1  
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+HWI-EAS443:3:34:1742:504#0/1  
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+HWI-EAS443:3:34:175:714#0/1  
\_Z\_ba`aaaaa]R\_aa`X\_abaaa]`[^¥^`^``\_\_¥^¥  
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+HWI-EAS443:3:34:177:731#0/1  
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+HWI-EAS443:3:34:201:647#0/1  
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+HWI-EAS443:3:34:214:1562#0/1  
\_Z\_a[^aWb\_aaa^ab\_aa^Za`¥a]Xaa\_[\_\_]\_\_a`¥B  
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+HWI-EAS443:3:34:225:946#0/1  
a\_X\_\_\_VUDYRXH`X]^^`WX`\_\_¥NZRSXJ[GWBBBB  
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+HWI-EAS443:3:34:22:146#0/1  
aa`]¥ZZ]^`^a^\_aa\_\_a^Z`\_^¥^Z[¥Y¥UPUVWXVWVB  
@HWI-EAS443:3:34:279:908#0/1  
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+HWI-EAS443:3:34:279:908#0/1  
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+HWI-EAS443:3:34:296:1515#0/1  
S¥W`b\_R\_\_a^^¥R\_^¥aabbbSI\_UVba¥WZZXVVa]P]  
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aa\_aaaaa`aa`\_`^a`a`a````[[`\_`\_`^^^\_V]]  
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a`aWQ\_\_SZS¥]\_TWQ^¥OVNS]VRQWPX]ZWP¥X`^ULB  
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+HWI-EAS443:3:34:736:1773#0/1  
Q\_a\_\_\_\_\_¥]X¥¥`\_aWQ\_\_\_Z`\_\_^\_^\_b`^]`a]U]BBB  
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aa]b^`aaaaaa¥aaaaa\_a[`[^`a^`]\_`\_^\_V]^^  
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a\_aa^aa\_aaa[a¥aaaa]aaaWa`\_`a\_a\_\_\_\_]\_`^^]  
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a[¥aZa^\_aaa\_\_\_\_a¥`a\_a`[\_¥Y\_¥¥]^U^WYBBBBBB  
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+HWI-EAS443:3:34:826:1329#0/1  
a`b\_\_a]\_aa¥\_\_\_\_\_`aa\_aa\_[^UZ^`a`ZS`Q\_X¥W]  
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\_]aV¥[\_Y\_¥Wa[\_aa^ZXaaT^]ZWXHX`\_[PY]\_^]V^  
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+HWI-EAS443:3:34:892:385#0/1  
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aaZX¥\_\_abbbba\_b`a^[]a^^`\_aa`aa`a`^¥0¥\_]`  
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aa\_baa\_\_aa`aba`aaaa^aXa\_`\_]`\_\_^\_YX`S]YW  
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+HWI-EAS443:3:34:966:1024#0/1  
^`a]`¥^\_Z\_]\_aaa]`¥a`^`a`aa^aa\_`^]YYX]\_]\_  
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+HWI-EAS443:3:35:1275:1124#0/1  
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+HWI-EAS443:3:35:1396:1864#0/1  
aaa]PSXVxb\_b0`Y\_\_\_`a\_G^`XU]^`[R]R¥V]¥]\_Y^  
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+HWI-EAS443:3:35:1411:939#0/1  
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+HWI-EAS443:3:35:1458:1048#0/1  
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+HWI-EAS443:3:35:1494:2042#0/1  
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+HWI-EAS443:3:35:1540:1112#0/1  
¥ab\_Q\_\_\_`aa]aab`^^`\_`UUa`]]`^^Xbbb^`^a`\_  
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+HWI-EAS443:3:35:1714:426#0/1  
]a¥^ZU[Y¥Y`\_\_`[]\_X[YQTYT\_\_N`^`a\_^Q]Y\_  
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+HWI-EAS443:3:35:1715:264#0/1  
a`W]bV\_[^^Z¥¥Z¥`a^\_aaY`\_WW`U^`^\_aaW\_¥\_V`  
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a`]\_\_YZ¥a`¥`VY¥MU[¥T]Y[Y¥Waa\_QL]^M`Y\_  
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+HWI-EAS443:3:35:1788:1265#0/1  
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+HWI-EAS443:3:35:241:903#0/1  
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[b[_ababa`a_`a_a`a¥^]Raa^ba`¥_]aa`aa^a^
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GGGGACATCAAGATACAGCAAGAAGTTCAAGCCGAAATA
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aaaaaa`a_`Y^`_Y`Z_]_`_YZ^[I[^W¥¥^]ZSSQ
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+HWI-EAS443:3:35:432:1363#0/1
ababab]aababaaa`baaaaaaaaaaU¥^``aaZ`S¥]]
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@HWI-EAS443:3:35:496:1755#0/1
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+HWI-EAS443:3:35:496:1755#0/1
aY¥`a¥]¥`^XTXY__^_^__Z[Z_U]NS]Y^_^`X_]]_
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a`aa^a_^a__aa]`_]`Y^]__]Y^_]]^S[ZZ]X]]]Y
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a`ababbbbaaaaaaaaaabaaaaaaaa`__aaaaaa`_`^¥
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+HWI-EAS443:3:35:592:1219#0/1
aaaaaYbabYba`baaaaaaaaa_aa`_`_¥`a]_`[`a_]]
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+HWI-EAS443:3:35:731:874#0/1
^b_aabb`¥abR^`_babaa]b¥]aba_¥`_bb`Z¥`aa`
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GCTGGCTGGATCCTGGGAAATCCAGAGTGTGAATCACTCT
+HWI-EAS443:3:35:743:72#0/1
^bbbbbbba__aaaaaa`aaaaa^a_`T`Z``^^]`Z[U[
@HWI-EAS443:3:35:774:997#0/1
CTTCTCTGTTAATTTTGCTTCTCTGAGTATTTGGGTA
+HWI-EAS443:3:35:774:997#0/1
J_ab^^b]a`a[W`aabbbbb``bbbbab^^`abba`YH`

@HWI-EAS443:3:35:78:1778#0/1
ATTAGAGCACATCCAGAACTGATTGCCCCAGGGAGACT
+HWI-EAS443:3:35:78:1778#0/1
aUU[R`_a`¥M]V[Z_a__^[UP^Z^[VPOMRTUUUU
@HWI-EAS443:3:35:793:309#0/1
TATCCTGACCCCTGCTCATTTTGTGGTGATAACCGTACC
+HWI-EAS443:3:35:793:309#0/1
`b]abaaaa`_a_a_aa`_[__Y_¥^_U__UQ]^Z_0¥Y¥
@HWI-EAS443:3:35:81:426#0/1
CAGCACTAGTAGATGGATGGTGAATGCCCATAGCACGAG
+HWI-EAS443:3:35:81:426#0/1
`K[aabXZ_]Za^]_Z`aaU_aaa`¥Y__Q][XP]^`_
@HWI-EAS443:3:35:885:1999#0/1
GCTGGCTGGATCCTGGGAAATCCAGAGTGTGAATCACTCT
+HWI-EAS443:3:35:885:1999#0/1
`bba`a`¥`_b__¥a_bbb`^^aaZK^[_baZT¥¥^KT
@HWI-EAS443:3:35:891:1977#0/1
GGAAATTGGAAACGGCTGCTTTGAATTTTACCACAAATGC
+HWI-EAS443:3:35:891:1977#0/1
a_baa_a¥aaba[`aTZGL`[LFUZ_¥VMW`]^a_HGY
@HWI-EAS443:3:35:917:426#0/1
CAAGATACAGCAAGAAGTTCAAGCCGAAATAGCAATAAG
+HWI-EAS443:3:35:917:426#0/1
abaa¥Z^`R`baa_0H]XZR¥X_`¥aaXNZ¥¥a¥¥_U_T^
@HWI-EAS443:3:35:942:1104#0/1
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+HWI-EAS443:3:35:942:1104#0/1
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@HWI-EAS443:3:35:950:578#0/1
GCTCAATTGCTCTTAGCTCCTCATAATCGATGAAATCT
+HWI-EAS443:3:35:950:578#0/1
aababbbbaabaaaabb_aa`aabaabaabaa¥^a`a[a
@HWI-EAS443:3:35:993:856#0/1
CCTCGTGCTATGGGGCATTACCATCCATCTACTAGTGCT
+HWI-EAS443:3:35:993:856#0/1
aaaa`X`[```aa`^^`]^Xa^W¥¥[¥]aa[`^¥¥]¥`SW
@HWI-EAS443:3:36:1042:1486#0/1
CTGGCTGGATCCTGGGAAATCCAGAGTGTGAATCACTCTC
+HWI-EAS443:3:36:1042:1486#0/1
[W^[`_¥^`_YZ^^`]_^_[W^Z]P`¥YV^]]^^Va
@HWI-EAS443:3:36:104:2015#0/1
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+HWI-EAS443:3:36:104:2015#0/1
abaa`baaYaa_a`aaab___a_aaaXTP`^___`UX_]a
@HWI-EAS443:3:36:1062:913#0/1
AGCCGGGAGACAAAATAACATTGAAGCAACTGGAAATCT
+HWI-EAS443:3:36:1062:913#0/1
^^`bb`ba]]aaaa]aa]aaa`aa`__`aa`_`_aa```
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+HWI-EAS443:3:36:1117:1301#0/1
abaaabbab_Waa^`¥V_```][[_`_a__Y``````_b^^X
@HWI-EAS443:3:36:111:993#0/1
CTGACAAGTTGTATTGCAATCGTGGACTGGTGTATCTGAA
+HWI-EAS443:3:36:111:993#0/1
aaaaa`[_]``^^`_`^S__a`_]_[^`_]_YQYX^[_`¥^ZW
@HWI-EAS443:3:36:1131:177#0/1
GAACTATTACTGGACACTAGTAGAGCCGGGAGACAAAATA
+HWI-EAS443:3:36:1131:177#0/1
a¥a`abbaa_aaaa`_`a[_]a_^`_¥U^^Z¥VZ^^[_]_
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+HWI-EAS443:3:36:1133:1024#0/1
aabb`_`a¥babbbaaaaaa`¥]¥`a_XVZUOP]W`]^_
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+HWI-EAS443:3:36:1134:555#0/1
aab¥b```aaaaaa`_a`^b`[P]T¥KY¥VQSSUWX[XG
@HWI-EAS443:3:36:1145:140#0/1
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+HWI-EAS443:3:36:1145:140#0/1
a]X_aabaa]X_``ZTYP]_XPY¥¥[^S¥P^UPUY^WJN
@HWI-EAS443:3:36:1155:1426#0/1
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+HWI-EAS443:3:36:1155:1426#0/1
aa__abaaaaa`a`a`_a`_^_[a``aY`^^XZ]_¥YY]^_
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CTTTTCAATAACAGAATTTACTTTGTTAGTAATCTCGTCA
+HWI-EAS443:3:36:1221:1246#0/1
Y¥`^```a`a¥aZ`UY_`aa_a__¥`^ababb^YaZ`TYZ
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+HWI-EAS443:3:36:1221:59#0/1
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+HWI-EAS443:3:36:1290:1951#0/1
aa_`ab__aaa`___Z^X^`_`¥`S^`¥W`_QYW^¥`^WR
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GCTGGATCCTGGGAAATCCAGAGTGTGAATCACTCTCCAC
+HWI-EAS443:3:36:1312:768#0/1
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+HWI-EAS443:3:36:1407:1285#0/1
aa]aZaaab`]aa]QXb[_aaa¥[[DVR_]a]Q_]aW][
@HWI-EAS443:3:36:1424:488#0/1
GTACGGTTATCACCATCAAAATGAGCAGGGGTCAGGATAT
+HWI-EAS443:3:36:1424:488#0/1
a_a_a`¥`a`_`XS¥````_`_`^^^]____`_VWW`_`^¥¥Y

+HWI-EAS443:3:36:195:1895#0/1
aa`a`a`aa_Z^a`_a`^_[QaSa]_Z^YZ___WJY^`
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GTGGGGACATCAAGATACAGCAAGAAGTTCAAGCCGGAAA
+HWI-EAS443:3:36:226:1313#0/1
a^Z]^]La]]a]¥__X^a]U^¥`^¥[ZIV][S]ZWZZYZU
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+HWI-EAS443:3:36:324:318#0/1
abbaaabaaaaaa_aa`___^___X`aaa_]a]
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GCCGGTTTCATTGAAGGGGGTGGACAGGGATGGTAGATG
+HWI-EAS443:3:36:33:1330#0/1
aab`a`¥`ab`aa`HYV^a``_N_[Yaa[^_¥^__V^_VW
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+HWI-EAS443:3:36:350:505#0/1
Y]aaQY]a``a[T¥_[_a_`R^Y_[_]X`WWVP[G[`W
@HWI-EAS443:3:36:384:1139#0/1
AAGTCCTCGTGCTATGGGGCATTCCACATCCATCTACTAG
+HWI-EAS443:3:36:384:1139#0/1
aU`Na`Zb¥X_^_TN_M¥Q`___ZNS[[V_a_¥WTU[]`U
@HWI-EAS443:3:36:428:1719#0/1
GCTGGCTGGATCCTGGGAAATCCAGAGTGTGAATCACTCT
+HWI-EAS443:3:36:428:1719#0/1
abb`_baabb`bb`^^^WabbaabaaaU]Qaa`Sb]b`a¥
@HWI-EAS443:3:36:447:2027#0/1
ATACAACCTGTGACACCCCAAGGGTGCTATAAACACCAG
+HWI-EAS443:3:36:447:2027#0/1
a[¥b_Z`aa]W]]P[aa`aa_a_]RKR```^`_`_a`a__]
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GCCGGTTTCATTGAAGGGGGTGGACAGGGATGGTAGATG
+HWI-EAS443:3:36:509:517#0/1
aab_WYaa_aab^PZaa`a]aR```_a`]aa__aaU^`[T_
@HWI-EAS443:3:36:534:1542#0/1
AAAAACAATGCCAAGGAAATTGGAAACGGCTGCTTTGAA
+HWI-EAS443:3:36:534:1542#0/1
aaa]aaaa¥^aaa`_] ^a]__^^^_Y_]_YYOJ[WISX
@HWI-EAS443:3:36:589:122#0/1
TTTGTAGTAATCTCGTCAATGGCATTCTGTGTGCTCTTC
+HWI-EAS443:3:36:589:122#0/1
aa_b]aab^aa`_a_aXa`_]_^___^Y__Y^Y^]^_X^_
@HWI-EAS443:3:36:589:47#0/1
TGAAGGGGGTGGACAGGGATGGTAGATGGATGGTACGGT
+HWI-EAS443:3:36:589:47#0/1
a`ZUa_`aab_aa^Z^aa[TZa_T`]ZU``ZUY¥R]^`^UW
@HWI-EAS443:3:36:591:824#0/1
CCTCTGAGTATTTTGGGTAGTCATAAGTCCCATTTTGGAC
+HWI-EAS443:3:36:591:824#0/1
aaaaaa``¥aaaa`aaaUW_Xa_aZ``Ya__[_a_]`^¥`

@HWI-EAS443:3:36:595:478#0/1
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+HWI-EAS443:3:36:595:478#0/1
aa¥bb_K^aa`aaa`aa`ZV_``a`b_VZa^aa_]Z]^`^
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AATCGATGAAATCTCCTGGGTAACACGTTCCATTGTCTGA
+HWI-EAS443:3:36:598:483#0/1
abaabaaa_aaaaaaaaaa¥^aaa`__aa_a`_]a____
@HWI-EAS443:3:36:598:869#0/1
ATTCATCTTTTCAATAACAGAATTTACTTTGTTAGTAATC
+HWI-EAS443:3:36:598:869#0/1
]^`[¥Yaa¥^`bZMSbaab_VYZa]¥a`a_a`]_`^]]^a
@HWI-EAS443:3:36:59:1713#0/1
GCTGGCTGGATCCTGGGAAATCCAGAGTGTGAATCACTCT
+HWI-EAS443:3:36:59:1713#0/1
a`aa_`¥`_]T_`WVXR^W^G^a_OXXP_Qa_WU^^]FXN
@HWI-EAS443:3:36:629:1997#0/1
GGGGACATCAAGATACAGCAAGAAGTTCAAGCCGGAAATA
+HWI-EAS443:3:36:629:1997#0/1
^_Z¥ba`_b`Z^`W^_aaa`]T0^Ga]ab`Q^aa```^L
@HWI-EAS443:3:36:62:1475#0/1
GGTGGACAGGGATGGTAGATGGATGGTACGGTTATCACCA
+HWI-EAS443:3:36:62:1475#0/1
a`R```_¥]a`]^a`JVR``_Z]¥_¥L]]_XN[¥^ZT_[0
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GGACATCAAGATACAGCAAGAAGTTCAAGCCGGAAATAGC
+HWI-EAS443:3:36:635:676#0/1
^OX`a_a¥G[Y`[^a]^`a_W[_V^`^^^UX^¥WVSY^X_
@HWI-EAS443:3:36:637:944#0/1
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+HWI-EAS443:3:36:637:944#0/1
aaa`^^Q_`a`]^a_]_T[[aa_]a__^]¥W^^`^^^`
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+HWI-EAS443:3:36:642:552#0/1
a[abbabbbaT_`^aaa__a`b__`_a]___]TZ[_WQ`_a
@HWI-EAS443:3:36:656:799#0/1
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+HWI-EAS443:3:36:656:799#0/1
a_b__bbbaaaaaba_b`bbbbbbbaa_a`aa_aaa]aa_a
@HWI-EAS443:3:36:662:227#0/1
CTGGCTGGATCCTGGGAAATCCAGAGTGTGAATCACTCTC
+HWI-EAS443:3:36:662:227#0/1
a]]J_`_SWT`T`RJUPa[V]VY`¥XS^K]YOXKR]Q[UU
@HWI-EAS443:3:36:693:1633#0/1
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+HWI-EAS443:3:36:693:1633#0/1
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@HWI-EAS443:3:36:748:2029#0/1
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@HWI-EAS443:3:37:1018:1772#0/1
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+HWI-EAS443:3:37:1018:1772#0/1
`a]^W_baaabaYaaaWba_aaba`aaa`W^^aa_[`_]X
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+HWI-EAS443:3:37:1061:1651#0/1
^¥Y¥_[Vabbbbb^Z¥_`aabbaba^^`aLaabba_]^[^`
@HWI-EAS443:3:37:1062:1401#0/1
CTCTTAGCTCCTCATAATCGATGAAATCTCCTGGGTAACA
+HWI-EAS443:3:37:1062:1401#0/1
Ybbb_baba]_`a_aaXab`V^aabb¥X_Wbaaa`_a^`
@HWI-EAS443:3:37:1062:1634#0/1
GGGAAATCCAGAGTGTGAATCACTCTCCACAGCAAGCTCA
+HWI-EAS443:3:37:1062:1634#0/1
aa`abbbbbbaaa```babaabaaa^a][PY¥aaaa_```
@HWI-EAS443:3:37:1066:1960#0/1
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+HWI-EAS443:3:37:1066:1960#0/1
ab`[WH`a_VZ]P]YQP`X`aa^^a_]S]Z][XW[Y[^UU
@HWI-EAS443:3:37:1082:389#0/1
GTGTCTGACAAGTTGTATTGCAATCGTGGACTGGTGTATC
+HWI-EAS443:3:37:1082:389#0/1
``^`a`aa]¥X`_`aaa]``a```^`^Ma`_][`YW_V
@HWI-EAS443:3:37:1104:1148#0/1
CTCCCGGCTCTACTAGTGCCAGTAATAGTTCATTCTCCC
+HWI-EAS443:3:37:1104:1148#0/1
]bb`¥[b`bba__a]WQZaab^aaaa^`G`ZHYa¥aa_a
@HWI-EAS443:3:37:1128:226#0/1
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+HWI-EAS443:3:37:1128:226#0/1
abaaaaaaaaabaab`ba^aaaaab^a`b`Ua_`a^_]a`_
@HWI-EAS443:3:37:1153:218#0/1
TGCCGGTTTCATTGAAGGGGGTGGACAGGGATGGTAGAT
+HWI-EAS443:3:37:1153:218#0/1
`ba`bb^bab^abbaaaaaabWbaa^_ZJ¥``a`¥]a^¥
@HWI-EAS443:3:37:1214:808#0/1
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+HWI-EAS443:3:37:1214:808#0/1
a``aa^SYQba`a¥Waa`[Paa```^`QX_N[Y`X_][^ZQ
@HWI-EAS443:3:37:1234:375#0/1
CAGGGATGGTAGATGGATGGTACGGTTATCACCATCAAAA
+HWI-EAS443:3:37:1234:375#0/1
aba_a^_`a^bbW^`ba_bb`b```^aaa[M[Tbaa¥aZ`¥
@HWI-EAS443:3:37:1237:1263#0/1
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+HWI-EAS443:3:37:1237:1263#0/1
aa_`bb`Z`_]V^aa`_aa]babaaa[aUTaaa__]]_aa
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+HWI-EAS443:3:37:1243:784#0/1
abbabbaaaaa`^^`a`_X]a`¥[[[_YOJQ[`ZZ]S`^U
@HWI-EAS443:3:37:1260:869#0/1
GTCCCATTTTTGACACTTTCATGCACGTGTTATCGCATT
+HWI-EAS443:3:37:1260:869#0/1
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@HWI-EAS443:3:37:1279:1649#0/1
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+HWI-EAS443:3:37:1279:1649#0/1
]aaT_bb`^^]b`bbaa`_aa`^^a^ZYLZ¥]SX]a`¥0
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GGGGGGTGGACAGGGATGGTAGATGGATGGTACGGTTATC
+HWI-EAS443:3:37:127:663#0/1
^`b`baYbaabbaa`S`a`Y`^`a^aa`W[aLW^a`]WZ¥W
@HWI-EAS443:3:37:1325:1807#0/1
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+HWI-EAS443:3:37:1325:1807#0/1
aa^aaab`bbbaaa`^`aaa^`aa`aa^aaVbaa_a^`aa[
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CACGTGTTATCGCATTGTGGTAAAATTCAAAGCAGCCGT
+HWI-EAS443:3:37:1358:384#0/1
J_Y`¥bbbbbbb`aabb`b`_b_b`^`abGbb_`^`aZbbb
@HWI-EAS443:3:37:1369:919#0/1
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+HWI-EAS443:3:37:1369:919#0/1
aaaa_b`a`Z_aaa_`aaaaaaaaab_aa`[a_X^aa`^^`
@HWI-EAS443:3:37:1373:1267#0/1
GCTGGCTGGATCCTGGGAAATCCAGAGTGTGAATCACTCT
+HWI-EAS443:3:37:1373:1267#0/1
`aa]a`_]aa]Z¥WZa`Q`^X^_XW`UYH[SaVZ¥¥¥US
@HWI-EAS443:3:37:1378:600#0/1
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+HWI-EAS443:3:37:1378:600#0/1
ab¥¥]¥`^`OYVVGZY`_ZW]¥Y¥SZ¥XPULa]HTW_LO[S
@HWI-EAS443:3:37:138:243#0/1
CTGCCGTTACACCTTTGTTGAGTCATGATTGGCCATGA
+HWI-EAS443:3:37:138:243#0/1
a^bbb¥X^]a^a`^^`a`_`¥P[Za_]aZVNXVZ`_[ZX¥
@HWI-EAS443:3:37:1426:40#0/1
GGATCCTGGGAAATCCAGAGTGTGAATCACTCTCCACAGC
+HWI-EAS443:3:37:1426:40#0/1
a^^SY]]^`a`__[[[_UZU^V`V`¥[^^ODORUXMZSS[L
@HWI-EAS443:3:37:1467:709#0/1
AACTGATTGCCCCAGGGAGACTACCAGTACCAATGAACT
+HWI-EAS443:3:37:1467:709#0/1
_`^`XZ`U`[^aa`ab`a`^^`_V`_`^][WbX`]a`]]^
@HWI-EAS443:3:37:147:213#0/1
AAAACATATGCATCTGCATTCTGATAGAGACTTTGTTGGT
+HWI-EAS443:3:37:147:213#0/1
UL`bbbbaaaaa`^`aaaaaaba_`[_`a`_`aX`a^`_`_W

@HWI-EAS443:3:37:1534:150#0/1
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+HWI-EAS443:3:37:1534:150#0/1
aaa`a`aaa¥YZ_VVa^Z`_Y[ZP]^V_G¥[^^[SSTV
@HWI-EAS443:3:37:1540:443#0/1
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+HWI-EAS443:3:37:1540:443#0/1
a`aXV`ZWU^0]a¥Zba_^Vab[OZaaW_M]Z]_Y]SZ_P
@HWI-EAS443:3:37:1584:1569#0/1
AAAAGAATAGAGAATTTAAATAAAAAAGTTGATGATGGTT
+HWI-EAS443:3:37:1584:1569#0/1
abaabaabbbbaaabaabb`aaaa_Zbaaba_a_Y_
@HWI-EAS443:3:37:1609:99#0/1
GAAGAGCACACAGAATGCCATTGACGAGATTACTAACAAA
+HWI-EAS443:3:37:1609:99#0/1
a^)]^a^__a]_a`YaaXX[[¥`[R`]YMIx¥][^XUY[X
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+HWI-EAS443:3:37:1687:1097#0/1
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@HWI-EAS443:3:37:1716:1074#0/1
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+HWI-EAS443:3:37:1716:1074#0/1
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@HWI-EAS443:3:37:1747:956#0/1
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+HWI-EAS443:3:37:1747:956#0/1
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+HWI-EAS443:3:37:1750:691#0/1
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@HWI-EAS443:3:37:19:1187#0/1
TCAGAATGCAGATGCATATGTTTTTGTGGGGACATCAAGA
+HWI-EAS443:3:37:19:1187#0/1
ab`¥`^^^ba^aab`b_V_a^`aa_aSY_¥Y]`[`aa`a`
@HWI-EAS443:3:37:204:205#0/1
GGCCAGTCTCAATTTTGTGCTTTTACATATTTTGGACAT
+HWI-EAS443:3:37:204:205#0/1
aaaa^^Va_`P`_a¥a_U]a]_^a¥_`[^VV^[^_Y_¥_
@HWI-EAS443:3:37:215:231#0/1
CTGGGAAATCCAGAGTGTGAATCACTCTCCACAGCAAGCT
+HWI-EAS443:3:37:215:231#0/1
aaa``abbaaa_aaa^a^aa`aab```_aRR__^aaV^a^
@HWI-EAS443:3:37:218:1885#0/1
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+HWI-EAS443:3:37:218:1885#0/1
]bb[Z`ab_baaa`X``bbaa_b_b_ba`_``Ub`a^UWa
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+HWI-EAS443:3:37:287:1171#0/1
[b`_b_bbbbbabbabbbbbbbbaabbaaNabY_baM¥a
@HWI-EAS443:3:37:289:472#0/1
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+HWI-EAS443:3:37:289:472#0/1
aabaaaaaaaa`aaa`aaa[aaaa``_]`^`Y`___`__`
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+HWI-EAS443:3:37:306:104#0/1
^bbbbbbaababaa`aa`aaK__aaa``ZKIV_Z`^XNRK
@HWI-EAS443:3:37:320:116#0/1
CACTCTGTAACTTCTAGAAGACAAGCATAACGGGAAAC
+HWI-EAS443:3:37:320:116#0/1
`a`¥`a`]aaaa_aaa^``]`a`aaT^POVF[_`_aZFTX
@HWI-EAS443:3:37:326:1416#0/1
TGAACCTGTCTGGGAATATCTCAAACCTTCAAATGAT
+HWI-EAS443:3:37:326:1416#0/1
^[]`a]_bYbaa_^`a¥aaaaaa^aa`b¥Uab`¥```a]
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GGGACATCAAGATACAGCAAGAAGTTCAAGCCGAAATAG
+HWI-EAS443:3:37:338:382#0/1
aaa`_a`a`aaa`a`baaaba`[^X^`YHQ__`^X__^__
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ATCCTGACCCCTGCTCATTTTGATGGTGATAACCGTACCA
+HWI-EAS443:3:37:449:151#0/1
]S][[JSZ[X`XSYW[RXTN XRQLQBBBBBBBBBBBBB
@HWI-EAS443:3:37:453:1318#0/1
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+HWI-EAS443:3:37:453:1318#0/1
aa_]_aaaaaaaaaba]_aaa_aZ`W^`]a0¥`T¥[aaaaa
@HWI-EAS443:3:37:504:1159#0/1
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+HWI-EAS443:3:37:504:1159#0/1
aa`]a`a_]`_]_X_]`^X¥a]_Y]R^UKJYV`aU^a^`
@HWI-EAS443:3:37:504:721#0/1
TCTTCAGGTCGGCTGCATATCCTGACCCCTGCTCATTTTG
+HWI-EAS443:3:37:504:721#0/1
_ba`aaYZ¥a``aa`a__a__``^_¥`^^Q¥_WZ__W_
@HWI-EAS443:3:37:520:1008#0/1
CACGTGTTATCGCATTTGTGGTAAAATCAAAGCAGCCGT
+HWI-EAS443:3:37:520:1008#0/1
aaaaY^Z`^`^`a^^__aaUaYXa]^[]^aPDZ]^XY^`^X
@HWI-EAS443:3:37:555:1622#0/1
GGGTCAGGATATGCAGCCGACCTGAAGAGCACACAGAATG
+HWI-EAS443:3:37:555:1622#0/1
`b[_abbabba`bbabb_a_aa]aa]aaGUYU_a`aaa`
@HWI-EAS443:3:37:566:522#0/1
TCGGATGTATATTCTGAAATGGGAGGCTGGTGTATTATAGC
+HWI-EAS443:3:37:566:522#0/1
aaa`_a`__a_aaa`a````¥```]a`_Z_UH_W^_YR]]Z

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+HWI-EAS443:3:37:580:380#0/1
aaRV`aabaaUW]`a_ab]GY`a_^aQaaW`^_a]XR[^Y
@HWI-EAS443:3:37:62:1252#0/1
TTGGAAACGGCTGCTTTGAATTTTACCACAAATGCGATAA
+HWI-EAS443:3:37:62:1252#0/1
``_T_USbaTb_¥UG^XFWXZ^_R`a¥`NHUUHVZTQ]_
@HWI-EAS443:3:37:630:1292#0/1
GGGAGACTACCAGTACCAATGAACTGGCGACAGTTGAATA
+HWI-EAS443:3:37:630:1292#0/1
]aaaaabaaaa_abaaaa[aaa_a`_aXa__Y_]_U[a
@HWI-EAS443:3:37:645:249#0/1
ATGATTGGGCCATGAACTTGTCTTGGGAATATCTCAAAC
+HWI-EAS443:3:37:645:249#0/1
aaaa^Q_Ua^````YQR`aa[^`a¥a_aUMM_U_^^¥H¥V
@HWI-EAS443:3:37:676:1250#0/1
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+HWI-EAS443:3:37:676:1250#0/1
``aaaaW`_]Z_a_aaa`_] ^YZ^[U]ZNSY^XT[X
@HWI-EAS443:3:37:677:1523#0/1
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+HWI-EAS443:3:37:677:1523#0/1
ab[`abbaab][_a`aaaa`_``Y__^baWa^ba__`a`¥
@HWI-EAS443:3:37:688:426#0/1
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+HWI-EAS443:3:37:688:426#0/1
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+HWI-EAS443:3:37:766:141#0/1
aa`__a`^a`_``^¥^a^¥_SW`^¥XWV]^][[]ZZ_
@HWI-EAS443:3:37:843:1705#0/1
TTTTCAATAACAGAATTTACTTTGTTAGTAATCTCGTCAA
+HWI-EAS443:3:37:843:1705#0/1
^_OUS^`YS`a`WS`^0_Za^Z_M0a_SUQ0aVbbIba`
@HWI-EAS443:3:37:869:2041#0/1
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+HWI-EAS443:3:37:869:2041#0/1
aabX_b^aaaa[a_a``aa`aa`[Na`^bNXYL]b[N]PL
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+HWI-EAS443:3:37:882:1448#0/1
a`a_aaababaa`a_baa_[_`_`[a`¥ZY[]_`^`_]_¥
@HWI-EAS443:3:37:884:1245#0/1
CGTCAATGGCATTCTGTGTGCTCTTCAGGTCGGCTGCATA
+HWI-EAS443:3:37:884:1245#0/1
ab]W_LZ`Q[]_Z¥`]`aPTa^bZ]¥SZPGbZT^_V[]T¥
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+HWI-EAS443:3:37:896:1978#0/1
aba_UaaZaa`_`_]`a_]`b^^aaaXLLDG[``a[^_V_
@HWI-EAS443:3:37:911:95#0/1
GGGACATCAAGATACAGCAAGAAGTTCAAGCCGAAATAG
+HWI-EAS443:3:37:911:95#0/1
aaa`a`^`aa`_]a`]_aa`_aP[]^NL`^`_R¥Z^^^
@HWI-EAS443:3:37:914:524#0/1
ACTGATTGCCCCAGGGAGACTACCAGTACCAATGAACTG
+HWI-EAS443:3:37:914:524#0/1
aaa`aaaaaaaa]Z_X`^X]`^]X¥SWSa`Y_]T]¥^
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+HWI-EAS443:3:37:917:87#0/1
aaa^aaaa¥Z¥a__^aaa_]aa]]`a_]aGYWaZ_]^`_]
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+HWI-EAS443:3:37:927:998#0/1
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+HWI-EAS443:3:37:941:1267#0/1
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@HWI-EAS443:3:37:970:741#0/1
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+HWI-EAS443:3:37:970:741#0/1
`Z`_SU`baa`_aa`_`_W___[[_aa[TTW_aZ_VOJS¥
@HWI-EAS443:3:37:990:525#0/1
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+HWI-EAS443:3:37:990:525#0/1
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@HWI-EAS443:3:38:1031:1279#0/1
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+HWI-EAS443:3:38:1031:1279#0/1
a`]aa^aYZ_]aa¥`]`a_M_P]Pa[]^][U`WX¥`^R^W
@HWI-EAS443:3:38:1092:993#0/1
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+HWI-EAS443:3:38:1092:993#0/1
`abaa`^a]^_Y_aa_a`[_`Y`]X]a^¥RYXV]`TNR_^
@HWI-EAS443:3:38:1118:1272#0/1
TGACAAGTTGTATTGCAATCGTGGACTGGTGTATCTGAAA
+HWI-EAS443:3:38:1118:1272#0/1
[`V`a`aTZ_Rb^Y`^Z`^aa¥V^^T`^¥^M[R`Z^a¥_O
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+HWI-EAS443:3:38:1124:1805#0/1
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+HWI-EAS443:3:38:1215:91#0/1
ababab`abaaab`abaaaabbbabababa_]^aa]^`W

@HWI-EAS443:3:38:1239:26#0/1
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+HWI-EAS443:3:38:1239:26#0/1
a_aa`a`^^_¥^`^a^[_`^^`[U^VYTX]VW]]VPR
@HWI-EAS443:3:38:1299:394#0/1
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+HWI-EAS443:3:38:1299:394#0/1
`a`a^abba`R]b^^¥_baa`^Y^¥QT[Y_¥W`UYG
@HWI-EAS443:3:38:12:348#0/1
GGGACATCAAGATACAGCAAGAAGTTCAAGCCGGAAATA
+HWI-EAS443:3:38:12:348#0/1
aa_aaaa`b`aaYaa_aa_aaaZR^[_Y_VS]__Y¥_^^
@HWI-EAS443:3:38:1316:1382#0/1
ACAATGTAGGACCATGAGCTTGCTGTGGAGAGTGATTCAC
+HWI-EAS443:3:38:1316:1382#0/1
]¥`U`SX^X^T¥^`a¥a¥Ta`V]YMQPNRTRVKT[R
@HWI-EAS443:3:38:1325:1312#0/1
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+HWI-EAS443:3:38:1325:1312#0/1
aa_`a``_aYXZ_ab`aaa^a^_X^_Z^_SVX_YQZ^`]
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+HWI-EAS443:3:38:1340:435#0/1
aaaab]ab^ba]¥]_V¥aaX_]^a`aaTS[_a`_`Z¥Y
@HWI-EAS443:3:38:1347:1613#0/1
ATTTTGTCTCCTCTGAGTATTTTGGGTAGTCATAAGTCCC
+HWI-EAS443:3:38:1347:1613#0/1
¥[_][X`^`¥ZZY`^¥a¥_a_ZaX_PV¥FJ[[¥WSONWH
@HWI-EAS443:3:38:1351:107#0/1
TGCAATACTTGTGACACCCAAGGGTGTATAAACA
+HWI-EAS443:3:38:1351:107#0/1
abaaaabaa_`a`__a_V`^`^a^aUXWXY]Y]]VU
@HWI-EAS443:3:38:1389:812#0/1
GATTTCCAGTTGCTTCGAATGTTATTTGTCTCCCGGCTC
+HWI-EAS443:3:38:1389:812#0/1
_Y¥`aa`W¥^^]Z^`_aX]]aZ`````_]UUXT[U[ZTYU
@HWI-EAS443:3:38:142:389#0/1
GCCGGTTTCATTGAAGGGGGTGGACAGGGATGGTAGATG
+HWI-EAS443:3:38:142:389#0/1
ab``Z`a`^]ab]Z__a``W``UQZ[^UVa_S`_^Y[
@HWI-EAS443:3:38:1438:1879#0/1
CAGAACTGATTGCCCCAGGGAGACTACCAGTACCAATG
+HWI-EAS443:3:38:1438:1879#0/1
Q_^`b`U__TZ]XR__`M__I¥U][TWW_NGFFWXXaaVY
@HWI-EAS443:3:38:1488:1437#0/1
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+HWI-EAS443:3:38:1488:1437#0/1
`bbaaaaba^__a`a`a`Va`aa_Ua]`Y^^^U^_X^Y
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+HWI-EAS443:3:38:1488:952#0/1
aa__ba``aba_ababbbb_a`bb`b[ab_Z_]YaabaXT
@HWI-EAS443:3:38:1535:1450#0/1
CTGAAATGGGAGGCTGGTGTATTATAGCACCTTGGGTGTC
+HWI-EAS443:3:38:1535:1450#0/1
a`ba^`b`a¥Vaabb`^[bZbbb_WW_ZKSY^[aa]R`_T
@HWI-EAS443:3:38:1536:1486#0/1
GGGACATCAAGATACAGCAAGAAGTTCAAGCCGGAAATAG
+HWI-EAS443:3:38:1536:1486#0/1
_[_aaa__baa``_aaa]``a`aaYZ_aaYRT¥_]Z¥]_Y
@HWI-EAS443:3:38:1659:692#0/1
CTGGCTGGATCCTGGGAAATCCAGAGTGTGAATCACTCTC
+HWI-EAS443:3:38:1659:692#0/1
ab_]`___ba_K][¥a_a_[Z_a¥U`S^¥¥WV¥V¥U^RUS
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+HWI-EAS443:3:38:1668:640#0/1
^Y`a`aaaab`aXVbbabab`aaaaabaUWROa_````Z
@HWI-EAS443:3:38:1702:65#0/1
GACAAGTTGTATTGCAATCGTGGACTGGTGTATCTGAAAT
+HWI-EAS443:3:38:1702:65#0/1
a`^`a^ab_`___[a_a^X_`_W_]ZZZZXZZZZZ
@HWI-EAS443:3:38:1746:1144#0/1
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+HWI-EAS443:3:38:1746:1144#0/1
a_bbb^^^aab_`^Xbaaaa````]a`a^aUOTYS[UZYXX
@HWI-EAS443:3:38:1774:850#0/1
GCTCTCTTAGCTCCTCATAATCGATGAAATCTCCTGGGTA
+HWI-EAS443:3:38:1774:850#0/1
aaa_a_aaaaZ]VY`¥_a`]`¥a_^ZXZ`WGYWYZW^WZW
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+HWI-EAS443:3:38:192:925#0/1
a[a_[^]`aa^`ZU]_`QaZ_____Z`PXQZ^RTZVSU^_Z
@HWI-EAS443:3:38:204:476#0/1
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+HWI-EAS443:3:38:204:476#0/1
]^VZ_[]`bb]`[aYa^bVUab`^¥TW`VRa¥]_YG`¥[
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CTCCTCATAATCGATGAAATCTCCTGGGTAACACGTTCCA
+HWI-EAS443:3:38:211:617#0/1
a]SH__^YU]`___`UURY`aSZa`a]]X`^Z_]`0aZW`
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@HWI-EAS443:3:38:377:93#0/1
CAGAACTGATTGCCCCAGGGAGACTACCAAGTACCAATG
+HWI-EAS443:3:38:377:93#0/1
a¥X]_VaZ_¥^V_____aaX``[MZZ^^VUWRVSVLNWTYQ

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+HWI-EAS443:3:38:385:54#0/1
aa]_aa]a_UQ¥]X¥Y_NTWS_]UYVZKVUUSYT[YUUUU
@HWI-EAS443:3:38:400:764#0/1
CTCGTCAATGGCATTCTGTGTGCTCTTCAGGTCGGCTGCA
+HWI-EAS443:3:38:400:764#0/1
^b__¥bb]S`b`^_aa]^¥`Vabaa¥0[ZZNWP__aX]^G
@HWI-EAS443:3:38:427:53#0/1
GCTGGCTGGATCCTGGGAAATCCAGAGTGTGAATCACTCT
+HWI-EAS443:3:38:427:53#0/1
aabaaaa_[Y``[¥`_a]Y¥SYVZULXM[URPQTYZZYSS
@HWI-EAS443:3:38:434:306#0/1
CACTAGTAGATGGATGGTGAATGCCCCATAGCACGAGGAC
+HWI-EAS443:3:38:434:306#0/1
_``aab_abaaaa_aa`Yaaa`aa`a`_]Y]_____][S
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TGACACTGAGCTCAATTGCTCTCTTAGCTCCTCATAATCG
+HWI-EAS443:3:38:461:420#0/1
a_aa]aaSY]_``_`^V^a`_a¥`_a_Z_0^U^][0¥]_
@HWI-EAS443:3:38:474:1898#0/1
AAAAAGCACAAAATTGAGACTGGCCACAGGATTGAGGAAT
+HWI-EAS443:3:38:474:1898#0/1
a`a_a_baaaa_a````Z_`_]a]_]UZUWZ[SS]Z_S
@HWI-EAS443:3:38:542:1832#0/1
GGGGACATCAAGATACAGCAAGAAGTTCAAGCCGAAATA
+HWI-EAS443:3:38:542:1832#0/1
UG[Y^P`a`R_a]]`_]aaZU_KSQ]ZFZLURP_YZ¥
@HWI-EAS443:3:38:546:1114#0/1
CAACTTGTGACACCCCAAGGGTGTATAAACACCAGCCT
+HWI-EAS443:3:38:546:1114#0/1
a^^aaaa_aa`_`aaaaa__TY^`¥a_^V_^]ZV
@HWI-EAS443:3:38:550:693#0/1
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+HWI-EAS443:3:38:550:693#0/1
aaa`0]ZU_RMWJOUTOVSLWLW]Y^]WPSLQZMXUUTQ
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+HWI-EAS443:3:38:586:556#0/1
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+HWI-EAS443:3:38:628:1372#0/1
aaa`aaaba[`¥aaaa`_``aa`_¥[]`W[QV_[¥Y_YUS
@HWI-EAS443:3:38:63:1795#0/1
GCCGGTTTCATTGAAGGGGGTGGACAGGGATGGTAGATG
+HWI-EAS443:3:38:63:1795#0/1
a`¥¥]T``[`a_W`_]UQ^VJVYU^¥ZRPV]VLLYL¥ST
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+HWI-EAS443:3:38:681:1298#0/1
aaa_Z_aaa`aa`_Xa`^¥```a_^]_^_W][^X_X^SWZ
@HWI-EAS443:3:38:698:870#0/1
CTTTACTACTGCTGTGAAGTGTATTTCATCTTTTCAAT
+HWI-EAS443:3:38:698:870#0/1
abaab`ba`aaa_a`_a`]¥ab`a]aaaa`]aaa```_`
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+HWI-EAS443:3:38:713:1036#0/1
aa^aab_[`b^aaaaaaaa`aa`_a^aaa]^_`]`^a]_^
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+HWI-EAS443:3:38:781:752#0/1
ab^`]Y¥T]¥¥^Y¥`^aaa`[Z¥`__[_`¥_`¥YQLW]]Y
@HWI-EAS443:3:38:798:1192#0/1
CAGCCGTTTCCAATTTCTTGGCATTGTTTTTAACTGGC
+HWI-EAS443:3:38:798:1192#0/1
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@HWI-EAS443:3:38:799:207#0/1
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+HWI-EAS443:3:38:799:207#0/1
aa`aaaa```^`a_a_¥][^a__^`XVUWVW¥¥^]¥WV
@HWI-EAS443:3:38:818:1697#0/1
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+HWI-EAS443:3:38:818:1697#0/1
^baa`S_aa]a]aWabaa`baaaaa`aaa]X`_]aaYX`]
@HWI-EAS443:3:38:84:582#0/1
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+HWI-EAS443:3:38:84:582#0/1
abab`_`bbbaa```_`[^^^a¥^a]¥`[_`Y]`WXN[_`
@HWI-EAS443:3:38:866:1372#0/1
AAGGGAGAATGAACTATTACTGGACACTAGTAGAGCCGGG
+HWI-EAS443:3:38:866:1372#0/1
¥_¥SV``abb¥``_[b`^^[a¥ZZ`_`^`^SY`WTWR_]`^
@HWI-EAS443:3:38:880:726#0/1
CGATTATGAGGAGCTAAGAGAGCAATTGAGCTCAGTGTCA
+HWI-EAS443:3:38:880:726#0/1
abbb_¥bbbb`U]aababbb`abbaba¥¥aXa`_b_a_^
@HWI-EAS443:3:38:914:812#0/1
AAAGTGTCAAAAATGGGACTTATGACTACCCAAAATACTC
+HWI-EAS443:3:38:914:812#0/1
aaaa_b_abbabaa`[^aaaaaaaa`aaa[U^_Z^_]`^M
@HWI-EAS443:3:38:926:1858#0/1
GAGCAGGGGTCAGGATATGCAGCCGACCTGAAGAGCACAC
+HWI-EAS443:3:38:926:1858#0/1
aababa_aba_a]Xbbbb_b`aaaaSa¥S¥VaVUa¥XT
@HWI-EAS443:3:38:962:1086#0/1
CAGCCGACCTGAAGAGCACACAGAATGCCATTGACGAGAT
+HWI-EAS443:3:38:962:1086#0/1
aaabbaaaba`a`^a`a`aaa`_`a_a^Z_____`^`_^

@HWI-EAS443:3:38:994:214#0/1
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+HWI-EAS443:3:38:994:214#0/1
Xb`]aab`bb`baaaba^bZR`aWMZVW^^OWQOL__]LV
@HWI-EAS443:3:39:1013:968#0/1
GTCATGATTGGCCATGAACTTGTCTTGGGAATATCTCA
+HWI-EAS443:3:39:1013:968#0/1
a`aaa`_aaa_a`[R]_^]_a`^^`_a_]Y]_`a]_`X
@HWI-EAS443:3:39:1024:737#0/1
GGGACATCAAGATACAGCAAGAAGTTCAAGCCGAAATAG
+HWI-EAS443:3:39:1024:737#0/1
^abbbbbbbbab_bbabbbbabab_aab`aa]ba``aa`a
@HWI-EAS443:3:39:1025:954#0/1
CTGCTGTGAAGTGTATTTCATCTTTTCAATAACAGAATT
+HWI-EAS443:3:39:1025:954#0/1
abbabb^b^b`bb^bZaaaaaab_aabaa`_`[a_`aa_
@HWI-EAS443:3:39:1076:707#0/1
CATGAACTTGTCTTGGGAATATCTCAAACCTTCAAATG
+HWI-EAS443:3:39:1076:707#0/1
a¥`bX`bbbaaabba`U_b_b`ababaa`^a_ba```_
@HWI-EAS443:3:39:1130:1288#0/1
GGGGACATCAAGATACAGCAAGAAGTTCAAGCCGAAATA
+HWI-EAS443:3:39:1130:1288#0/1
aa`^a```_]_^]aa`a^[`aa_aUY`_RIMY[¥VX]W^
@HWI-EAS443:3:39:1219:982#0/1
AACGTGTTACCCAGGAGATTTTCATCGATTATGAGGAGCTA
+HWI-EAS443:3:39:1219:982#0/1
`a`_Wa`a]aa^Y][aa¥a_]a_`a`^a`_aW^__Z_U^X
@HWI-EAS443:3:39:1222:1280#0/1
CCAGAACTGATTGCCCCAGGGAGACTACCAGTACCAAT
+HWI-EAS443:3:39:1222:1280#0/1
abbabbbbbbbbbbbabbba`bbaaaa`aaaa^^Za¥```_
@HWI-EAS443:3:39:1222:86#0/1
CCCCCTTCAATGAAACCGCAATGGCCCCAAATAGGCCTC
+HWI-EAS443:3:39:1222:86#0/1
a]ababbbbbbbbaabaaa`a`_a_aQa```_¥_____¥^N
@HWI-EAS443:3:39:1224:655#0/1
GATGAAATCTCCTGGGTAACACGTTCCATTGTCTGAACTA
+HWI-EAS443:3:39:1224:655#0/1
aaaa`^_aaaa`aaaU^`___a_Za^`^^_ZU^ZX]W]X
@HWI-EAS443:3:39:1276:307#0/1
TGATGATGGTTTCTGGACATTTGGACTTACAATGCCGAA
+HWI-EAS443:3:39:1276:307#0/1
`[Y^`a`bb__a`¥`aaTP[_`a_[VXa¥ZYXW]_S¥UUU
@HWI-EAS443:3:39:1330:141#0/1
TCATAAGTCCCATTTTTGACACTTCCATGCACGTGTTAT
+HWI-EAS443:3:39:1330:141#0/1
aaaaaaaa`^`aaaaa^__a```^`X___[[X`Y^_]_^
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@HWI-EAS443:3:39:1645:1028#0/1
TTTACCACAAATGCGATAACACGTGCATGGAAAGTGTC
+HWI-EAS443:3:39:1645:1028#0/1
^Z]bb_baaaYTaXa_Z]]Y]^_]UNJZ¥¥XSWX]^SY]Y
@HWI-EAS443:3:39:1656:1197#0/1
GAGCAATTGAGCTCAGTGCATCATTTGAAAGGTTTGAGA
+HWI-EAS443:3:39:1656:1197#0/1
aa^[^abbbaaaaR^_W¥Ya^¥`^`bbV]_a`M[[a_a`a]
@HWI-EAS443:3:39:1662:190#0/1
TTCATCTTTTCAATAACAGAATTTACTTTGTTAGTAATCT
+HWI-EAS443:3:39:1662:190#0/1
``^Z¥S_a`^W¥`a__`T¥W^a`^Z_`^`aZ[]^]_ZROU
@HWI-EAS443:3:39:1663:526#0/1
GCCGGTTTCATTGAAGGGGGTGGACAGGGATGGTAGATG
+HWI-EAS443:3:39:1663:526#0/1
aaa`^Y]aa`aaaRQ¥aa_a_U`VSZU_`^¥UV^^RUYYVV
@HWI-EAS443:3:39:1710:1656#0/1
GTTGCTTCGAATGTTATTTGTCTCCCGGCTCTACTAGTG
+HWI-EAS443:3:39:1710:1656#0/1
a_aaaaa_a__a`[aaaa`^¥_Y^]_T]Y^YXZSTUPUMT
@HWI-EAS443:3:39:186:1693#0/1
GCCGGTTTCATTGAAGGGGGTGGACAGGGATGGTAGATG
+HWI-EAS443:3:39:186:1693#0/1
Z`R_]J^ab]a¥QaXWRaa]^Na[aa^R]UXV]PKaX[YX
@HWI-EAS443:3:39:232:753#0/1
ACAGTACCAATGAACTGGCGACAGTTGAATAGATCGCCA
+HWI-EAS443:3:39:232:753#0/1
aaa`XY`aa[`aa`aa^^[_`^^]X^]¥WSX]_TXUXXY
@HWI-EAS443:3:39:282:139#0/1
ATGCATATGTTTTGTGGGGACATCAAGATACAGCAAGAA
+HWI-EAS443:3:39:282:139#0/1
aaabaaY`^]aaaaYaa`^`^]¥Y¥__Y^V^____^Z¥
@HWI-EAS443:3:39:289:1530#0/1
TGGGGACATCAAGATACAGCAAGAAGTTCAAGCCGAAAT
+HWI-EAS443:3:39:289:1530#0/1
aaa^QZ_]_[`^`_`a`^Za`b]^Y`^aa_R[_^^Va`]
@HWI-EAS443:3:39:384:176#0/1
GCTGCTTTGAATTTTACCACAAATGCGATAACACGTGCAT
+HWI-EAS443:3:39:384:176#0/1
aa¥[_^_`^¥Y¥_]_]X^ZWZ]ZX^YXY^XSZWZZWSWX
@HWI-EAS443:3:39:390:1217#0/1
TCTCCCGGCTCTACTAGTGTCCAGTAATAGTTCATTCTCC
+HWI-EAS443:3:39:390:1217#0/1
a_H__[aab`a]]0]OTUa[¥_WWLUZZ[UQYZ_YX][YM
@HWI-EAS443:3:39:409:223#0/1
AACAGAATTTACTTTGTTAGTAATCTCGTCAATGGCATT
+HWI-EAS443:3:39:409:223#0/1
a]abb]Xbbb]aabbab_b]a`aaaa`a`Z``_```_`^
@HWI-EAS443:3:39:465:356#0/1
GGCATTACCATCCATCTACTAGTGCTGACCAACAAAGTC

+HWI-EAS443:3:39:465:356#0/1
aaaaa`a`aaaa_a`__aa`aa]`____`__Xa]a^^_VV
@HWI-EAS443:3:39:49:518#0/1
CCAAAGCTCAGCAAATCCTACATTAATGATAAAGGGAAAG
+HWI-EAS443:3:39:49:518#0/1
abbaaabaa^aaba`_aa`La`aa^Q_aa[_`_a]`Y_``
@HWI-EAS443:3:39:507:1598#0/1
GGCTGGTGTATAGCACCTTGGGTGTCTGACAAGTTGT
+HWI-EAS443:3:39:507:1598#0/1
X`bbaX¥WX^aab`b]^a[`_a^Ra^[FRMQV[_T][Z
@HWI-EAS443:3:39:520:1726#0/1
TAGTTCAGACAATGGAACGTGTTACCCAGGAGATTCATC
+HWI-EAS443:3:39:520:1726#0/1
`[ZQab¥XabaaabbaaYbZa``_a`Za[`¥__a`_a``R
@HWI-EAS443:3:39:535:1150#0/1
TCCCATTTTTGACACTTCCATGCACGTGTTATCGCATTT
+HWI-EAS443:3:39:535:1150#0/1
[aba]R__[^PY_`XZ[ZM^Z^UZS`¥TVYQV]Z[^a`a¥
@HWI-EAS443:3:39:567:397#0/1
CTTTTTTATTTAAATTCTCTATTCTTTTTTCCAGGTGGTT
+HWI-EAS443:3:39:567:397#0/1
aaabbaaaaa_^^_aaa_a`aa`a^``a`_W_a]]a`W^
@HWI-EAS443:3:39:573:1661#0/1
ATTGAGCTCAGTGCATCATTTGAAAGTTTGAGATATTC
+HWI-EAS443:3:39:573:1661#0/1
aa````_aaaa_¥`]aa`__`__^__^Y`^]``_a^__^Z
@HWI-EAS443:3:39:596:313#0/1
GCTGGCTGGATCCTGGGAAATCCAGAGTGTGAATCACTCT
+HWI-EAS443:3:39:596:313#0/1
aaaa^a`]¥][^^T[SSVMPV^^VYYUVURS^UPYPV¥V
@HWI-EAS443:3:39:61:977#0/1
CTCCCGGCTCTACTAGTGTCCAGTAATAGTTCATTCTCCC
+HWI-EAS443:3:39:61:977#0/1
aabbaaa`aa__`[_`_¥`¥`_¥``__¥¥^PZ_^Z^__¥
@HWI-EAS443:3:39:629:626#0/1
TGTGTGCTCTTCAGGTCGGCTGCATATCCTGACCCCTGCT
+HWI-EAS443:3:39:629:626#0/1
`__baaabbbabba`_aaaaaaaaabaaa__^_aaaa¥^`
@HWI-EAS443:3:39:62:274#0/1
CCGTTTTATTGAAGGGGGTGGACAGGGATGGTAGATGG
+HWI-EAS443:3:39:62:274#0/1
abbaTaaa`aaa[^aa^^a]T_a¥^T^Y]U^¥^V[_^W^^
@HWI-EAS443:3:39:630:325#0/1
TGCATATCTCGGTACCACTAGATTTCCAGTTGCTTCGAAT
+HWI-EAS443:3:39:630:325#0/1
a````_a^bab_aWY_``````]_¥a`Ya`^`_¥_[W_¥[_`^
@HWI-EAS443:3:39:64:395#0/1
GCCATGAACCTTGTCTTGGGGAATATCTCAAACCTTTCAA
+HWI-EAS443:3:39:64:395#0/1
aaaa^¥Y`][^_L]a^_X[_QLSVX[_YJ][^¥X_^_^^]^

@HWI-EAS443:3:39:655:1228#0/1
GGGACATTCCTCAATCCTGTGGCCAGTCTCAATTTTGTGC
+HWI-EAS443:3:39:655:1228#0/1
a_`Z`a_YT_]`a_`a_`UGU]]P_[POYZUQ_a][[TZL
@HWI-EAS443:3:39:663:1894#0/1
AAGCCAGTTAAAAACAATGCCAAGGAAATTGGAAACGGC
+HWI-EAS443:3:39:663:1894#0/1
a^[\`aaa^a`aa`aaaa^^]__¥^^]]_]]VX]]]]^YU
@HWI-EAS443:3:39:674:1879#0/1
ATATCCTGACCCCTGCTCATTTTGTGGTATAACCGTAC
+HWI-EAS443:3:39:674:1879#0/1
a]baba__`aa`Ya`^ZZ__^a^`^Y`Y_`^]]^0
@HWI-EAS443:3:39:707:1416#0/1
GCCAGTTAAAAACAATGCCAAGGAAATTGGAAACGGCTG
+HWI-EAS443:3:39:707:1416#0/1
abaZ¥ababbb`a¥abbba_Z_aaa]a```_aaaa`a_¥
@HWI-EAS443:3:39:709:1127#0/1
CACGTGTTATCGCATTTGTGGTAAAATCAAAGCAGCCGT
+HWI-EAS443:3:39:709:1127#0/1
aabaV`a`^^aaaa`V`a]a_V[\`_aa`][_`¥^]]
@HWI-EAS443:3:39:72:525#0/1
TTGGGTAGTCATAAGTCCCATTTTGGACACTTCCATGCA
+HWI-EAS443:3:39:72:525#0/1
aabbbVQ`_aabaaa¥aa_Z`aaaa_Waaa`_`aa`aa_
@HWI-EAS443:3:39:739:665#0/1
ATGGTTTCCTGGACATTTGGACTTACAATGCCGAAGTGT
+HWI-EAS443:3:39:739:665#0/1
aaba_aabbabaaaa`aaa_a``aaa_aaaX`TT¥`_^^
@HWI-EAS443:3:39:791:493#0/1
CCGGCTTGAACCTTCTTGCTGTATCTTGATGTCCCCACAAA
+HWI-EAS443:3:39:791:493#0/1
aba`aab_baaaaaaaa`aa_`a`aa`aa_`^`_a``^`_
@HWI-EAS443:3:39:833:54#0/1
TTCAGGTCGGCTGCATATCCTGACCCCTGCTCATTTTGT
+HWI-EAS443:3:39:833:54#0/1
aaba^X^aaXaZa¥¥XaUN¥Sa]NQ`TVUVSU¥^¥QYSPU
@HWI-EAS443:3:39:852:1387#0/1
GTAGTCCAAAGTTCTTTTCATTTTCCAATAGAACCAACAGT
+HWI-EAS443:3:39:852:1387#0/1
^`Ua]bb`¥a`aaabbb]abaababaab`a`a`¥`aa_^
@HWI-EAS443:3:39:852:273#0/1
AGGGAGACTACCAGTACCAATGAACTGGCGACAGTTGAAT
+HWI-EAS443:3:39:852:273#0/1
^a`_U`ba_ba`_`_Y``^`_]]U`XV[\`aa`HTRN_TZ]P
@HWI-EAS443:3:39:954:552#0/1
AGAAGTTTGGACTACCAGATTCAAATGTGAAGAACTTAT
+HWI-EAS443:3:39:954:552#0/1
aaaaaaabaaabaa^b`ab`aaa^[[`a^a`^a^^^a`__
@HWI-EAS443:3:39:962:1336#0/1
TAGTAATCTCGTCAATGGCATTCTGTGTGCTCTTCAGGTC

+HWI-EAS443:3:39:962:1336#0/1
_]aW^]_b`_^Z]a_a__aaaa`¥¥_`a_N_`aaZNSN
@HWI-EAS443:3:39:977:1060#0/1
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+HWI-EAS443:3:39:977:1060#0/1
aa_^`b`_]Za[¥a[SWYRNU_`^`¥X_^UXR¥`¥¥Y^V
@HWI-EAS443:3:39:97:576#0/1
TGCATATGTTTTGTGGGACATCAAGATACAGCAAGAAG
+HWI-EAS443:3:39:97:576#0/1
V[a[UZ__M_`_`_`_YTOW]¥a`]]S_Z]^aa`a_a^]Z_
@HWI-EAS443:3:39:983:703#0/1
GGGACATCAAGATACAGCAAGAAGTTCAAGCCGAAATA
+HWI-EAS443:3:39:983:703#0/1
aaaaa¥^`baa`^ZZaa__a`a^[_Y_aa[_UZ_a]]^V
@HWI-EAS443:3:3:1050:457#0/1
GAAATCCAGAGTGTGAATCACTCTCCACAGCAAGCTCATG
+HWI-EAS443:3:3:1050:457#0/1
aRTPX_a]bab]aYKR_`]__aG]U]WZ__VSU_Y]YQ]¥
@HWI-EAS443:3:3:1084:114#0/1
GCTAGTTAAAAAAGGAAATTCATACCCAAAGCTCAGCAA
+HWI-EAS443:3:3:1084:114#0/1
a_`b_^`a`_aaa^^]`__^[]^_^]`_[Y[]P[WZ
@HWI-EAS443:3:3:1098:1518#0/1
GCTATTTCCGGCTTGAACCTTCTGCTGTATCTTGATGTCC
+HWI-EAS443:3:3:1098:1518#0/1
aaaaaaaa_a[X`a`_^_[__Y]`_Z_^Z^]]`_X¥]XYX
@HWI-EAS443:3:3:1115:1814#0/1
CTTCTCTGAGTATTTTGGGTAGTCATAAGTCCCATTTTT
+HWI-EAS443:3:3:1115:1814#0/1
abbaaababababbaa`aY[^ab_`baaba_`[_aa`a`
@HWI-EAS443:3:3:111:613#0/1
AGAATTTACTTTGTTAGTAATCTCGTCAATGGCATTCTGT
+HWI-EAS443:3:3:111:613#0/1
aaaaaaaa_aaaa^aab_`a`_aab^Za`__^_`^`_aZ
@HWI-EAS443:3:3:1150:173#0/1
TGTTACCCAGGAGATTTTCATCGATTATGAGGAGCTAAGAG
+HWI-EAS443:3:3:1150:173#0/1
`[aba`aabab_b_`a_aaa_a_a`aaa_a^_Z^__^^
@HWI-EAS443:3:3:1158:192#0/1
GTGTGCTCTTCAGGTCGGCTGCATATCCTGACCCCTGCTC
+HWI-EAS443:3:3:1158:192#0/1
aU`]a¥a_a`__a_W¥_`^^^ZU^¥_Z[X¥TWVWV¥^WWU
@HWI-EAS443:3:3:1177:1247#0/1
GTTTAATTTTGCTTCTCTGAGTATTTTGGGTAGTCATAA
+HWI-EAS443:3:3:1177:1247#0/1
a_abaaaaaabaa`¥]`_aaa`Y`aaa`_`Y^a]¥Y`^
@HWI-EAS443:3:3:1230:375#0/1
AGTAATCTCGTCAATGGCATTCTGTGTGCTCTTCAGGTCG
+HWI-EAS443:3:3:1230:375#0/1
aaaba]ab]aY`Ua_a_`^aa^^a¥`X`]`_]__^^^NKO^

@HWI-EAS443:3:3:1280:1790#0/1
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+HWI-EAS443:3:3:1280:1790#0/1
aa[¥^¥b_aaaab`a_P__^VT_a_Y`_aI[]a[X]`I_a
@HWI-EAS443:3:3:1283:412#0/1
GCTGAGCTTTGGGTATGAATTTCTTTTTTAACTAGCCAT
+HWI-EAS443:3:3:1283:412#0/1
]QS]¥ZTYX`a¥QU__]]¥Z^XX¥_X]]ZYS]T_UNVZ
@HWI-EAS443:3:3:1315:464#0/1
GATTGCAATACAACCTGTCAGACACCCAAGGGTGCTATAA
+HWI-EAS443:3:3:1315:464#0/1
aa]]bW_ab¥]]`Na_baaaa_``^ZWaY_]a]`Z__`_]`
@HWI-EAS443:3:3:1364:50#0/1
TTTTGCTTCCTCTGAGTATTTTGGGTAGTCATAAGTCCCA
+HWI-EAS443:3:3:1364:50#0/1
abaaaYa`_Za^aa__Y`a__^`_Z__ZU]`Z]^XUUZ^
@HWI-EAS443:3:3:1392:420#0/1
CTTCTCTGAGTATTTTGGGTAGTCATAAGTCCCATTTTT
+HWI-EAS443:3:3:1392:420#0/1
]`b``aa`b`aba^YaY_b^]¥bb`^bbaa`a]Jb_abBB
@HWI-EAS443:3:3:1408:1925#0/1
GGGCCATGAACCTGTCTTGGGAATATCTCAAACCTTCA
+HWI-EAS443:3:3:1408:1925#0/1
a]a```a¥]_J`^b]0a^^^¥^Z[``]_U_W`[``VLV__^^
@HWI-EAS443:3:3:1424:198#0/1
AGCCAGTTAAAAACAATGCCAAGGAAATTGGAAACGGCT
+HWI-EAS443:3:3:1424:198#0/1
ZG0]aa_b`_^][_`^____¥]_P_^Z[_]UW^¥]]_UBBB
@HWI-EAS443:3:3:1443:1116#0/1
ATTTGTGGTAAAATTCAAAGCAGCCGTTTCCAATTTCTT
+HWI-EAS443:3:3:1443:1116#0/1
`baaa_ba_bbaa`b^aaaa[_a[Ua__`Y¥_`^aa^]Ya`
@HWI-EAS443:3:3:1462:817#0/1
GACACTTTCATGCACGTGTTATCGCATTGTGGTAAAAT
+HWI-EAS443:3:3:1462:817#0/1
^_]VaaZb`Tb¥0S^Ya^`¥V`__a`¥a]_bZb_Sa__¥¥
@HWI-EAS443:3:3:1485:220#0/1
GTCAATGGCATTCTGTGTGCTTTCAGGTCGGCTGCATAT
+HWI-EAS443:3:3:1485:220#0/1
a[P[_S]ZP^X]VNPSZP^S¥TVSVUWSSU¥UWUVSBBBB
@HWI-EAS443:3:3:1491:1414#0/1
CGTGCATGGAAAGTGTCAAAAATGGGACTTATGACTACCC
+HWI-EAS443:3:3:1491:1414#0/1
Y`ba`^bbZb^[[L]aWa`a`^`aa_a^a`Y`a`¥aa[VW
@HWI-EAS443:3:3:1533:525#0/1
TTGAAAATGTCCAAAATATGTAAAAAGCACAAAATTGAG
+HWI-EAS443:3:3:1533:525#0/1
`bbb¥]_^[X`a`aa]]a[]aaaaa]¥U^a`_`a^__
@HWI-EAS443:3:3:1588:150#0/1
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@HWI-EAS443:3:3:325:316#0/1
ACTAGATTTCCAGTTGCTTCGAATGTTATTTTGTCTCCCG
+HWI-EAS443:3:3:325:316#0/1
abbbaabab]^abYaa__a_a__a`Z_`_`aaa]]_X_XB
@HWI-EAS443:3:3:395:1499#0/1
GTCTCCCGGCTCTACTAGTGTCCAGTAATAGTTCATTCTC
+HWI-EAS443:3:3:395:1499#0/1
a]Z[aaaa`STSTVZRY^]WMMXPUVL^[LNR]MUXUX]U
@HWI-EAS443:3:3:400:1118#0/1
TGCATATGTTTTGTGGGACATCAAGATACAGCAAGAAG
+HWI-EAS443:3:3:400:1118#0/1
ab¥I_b_a`_bba__ba^_a¥aabb]^¥`b` `a`bba[aB
@HWI-EAS443:3:3:457:297#0/1
AATCGATGAAATCTCCTGGGTAACACGTTCCATTGTCTGA
+HWI-EAS443:3:3:457:297#0/1
^ababaaab`baaa^S_aa`_a¥_a_a]`[X_a_a]X`a_
@HWI-EAS443:3:3:468:281#0/1
CCGGCTTGAACCTTGCTGTATCTTGATGTCCCCACAAA
+HWI-EAS443:3:3:468:281#0/1
aaba`aaa`a]`aY_a^`aa]aa_aa` `^^UXU_`]____
@HWI-EAS443:3:3:473:1534#0/1
GGGGACATCAAGATACAGCAAGAAGTTCAAGCCGGAAATA
+HWI-EAS443:3:3:473:1534#0/1
` `aWb_VSbaM`_[a]a_^`a_Z]_G_Wa^_[^`]]^I_]`
@HWI-EAS443:3:3:502:225#0/1
TAGATTTCCAGTTGCTTCGAATGTTATTTTGTCTCCCGGC
+HWI-EAS443:3:3:502:225#0/1
aba__aaaaaba_]`a`a__aa`__`a_aX_^`W_Z`X
@HWI-EAS443:3:3:530:1704#0/1
CATCATTTGAAAGTTTGAGATATTTCCCAAGACAAGTTC
+HWI-EAS443:3:3:530:1704#0/1
ab_bbb¥`aabaa`a¥abb`b]ab`aaYP_bb`_`_aZa^
@HWI-EAS443:3:3:553:1723#0/1
GTGGGGACATCAAGATACAGCAAGAAGTTCAAGCCGGAAA
+HWI-EAS443:3:3:553:1723#0/1
a¥__¥[ZVJQT`X__Z_a^^`¥^^¥VPGU]_OZ]OWW^
@HWI-EAS443:3:3:57:1067#0/1
ACAATGCCAAGGAAATTGGAAACGGCTGCTTTGAATTTTA
+HWI-EAS443:3:3:57:1067#0/1
ab^aab`U¥a^Za]^Z__Y_]¥aNW`UMI[^GYXZBBBB
@HWI-EAS443:3:3:61:448#0/1
CACCCAAGGGTGTATAAACACCAGCCTCCCATTTCAGAA
+HWI-EAS443:3:3:61:448#0/1
ab`_`b`^bUG_aaba_^ab_^]a^GXUaVT_ab`bYa`
@HWI-EAS443:3:3:641:729#0/1
ATGAAATCTCCTGGGTAACACGTTCCATTGTCTGAACTAG
+HWI-EAS443:3:3:641:729#0/1
aba¥Xababb_bbbaaaaaaaaa]a^abaaa__aa^`_aaa
@HWI-EAS443:3:3:648:1678#0/1
ACTTGTGACACCCCAAGGGTGTATAAACACCAGCCTCC

+HWI-EAS443:3:3:648:1678#0/1
`aa`U_a[a_ZbX`aZ`Y^]a^a____aHaUW_`aG]]X
@HWI-EAS443:3:3:697:175#0/1
GAAGTCCTCGTGCTATGGGGCATTACCATCCATCTACTA
+HWI-EAS443:3:3:697:175#0/1
abb`^Qb_^b`_]aaaaaaZ]__`¥_¥XTRS_BBBBBBB
@HWI-EAS443:3:3:774:1340#0/1
CATTACCATCCATCTACTAGTGCTGACCAACAAAGTCTC
+HWI-EAS443:3:3:774:1340#0/1
abbbab[bbbaa_bbbaabab`babb`]G^b_bb`aY_aU
@HWI-EAS443:3:3:77:1439#0/1
GCCGGTTTCATTGAAGGGGGTGGACAGGGATGGTAGATG
+HWI-EAS443:3:3:77:1439#0/1
aZFZ¥HRVTW¥V^LVa]W¥^]SxLM¥Y`^]SY^^UBBBBB
@HWI-EAS443:3:3:782:1760#0/1
ACAAGTTGTATTGCAATCGTGGACTGGTGTATCTGAAATG
+HWI-EAS443:3:3:782:1760#0/1
a^`a_W_^]aaaaaaaaaX]a_aaa`]_Xa_W^`_^]a^
@HWI-EAS443:3:3:78:1049#0/1
AGAAGACAAGCATAACGGGAAACTATGCAAACCTAAGAGGG
+HWI-EAS443:3:3:78:1049#0/1
abbV`ab_]ba```YQabWaab[]_aaa_``b[```aaaa_
@HWI-EAS443:3:3:851:848#0/1
GGGGTCAGGATATGCAGCCGACCTGAAGAGCACACAGAAT
+HWI-EAS443:3:3:851:848#0/1
]GY]LUT_Y]]¥V_]_JSSYQWVX^S_[WYKVQ[P^BBBB
@HWI-EAS443:3:3:865:422#0/1
GGGGTCAGGATATGCAGCCGACCTGAAGAGCACACAGAAT
+HWI-EAS443:3:3:865:422#0/1
X^b_ZRa`aa`^T]]]X¥Y_¥[V_aYSa`]N_WUR[_¥¥^
@HWI-EAS443:3:3:868:1218#0/1
TAAATTTTTGTAGAAGCTTTTTGCTCCAGCATGAGGACAT
+HWI-EAS443:3:3:868:1218#0/1
abb^ba]`bbaba]^¥`aaa`a_aa]aaXa`_YaaaX`^
@HWI-EAS443:3:3:887:46#0/1
AATCGATGAAATCTCCTGGGTAACACGTTCCATTGTCTGA
+HWI-EAS443:3:3:887:46#0/1
aabbbaab`¥^`I`_aab^[P`RLa0``¥GW`_ZaSQ`¥]
@HWI-EAS443:3:3:88:1127#0/1
GGGGACATCAAGATACAGCAAGAAGTTCAAGCCGAAATA
+HWI-EAS443:3:3:88:1127#0/1
`a`bab`abba`_baa`ba¥aba`_Z`abaa`abWaa¥X`
@HWI-EAS443:3:3:896:1363#0/1
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+HWI-EAS443:3:3:896:1363#0/1
aWJ_`Z``bab]`^WaT¥YYaZR^a_S[IZ`¥^¥MP_^Ga
@HWI-EAS443:3:3:904:744#0/1
GTGGGGACATCAAGATACAGCAAGAAGTTCAAGCCGGAAA
+HWI-EAS443:3:3:904:744#0/1
a^a`a`a_aa^``a`__^`a¥`aa`^aZ^]]Y_SZ`ZW]Z

@HWI-EAS443:3:3:910:129#0/1
GATAAAGGGAAAGAAGTCCTCGTGCTATGGGGCATTACACC
+HWI-EAS443:3:3:910:129#0/1
Ya`XaX_[aX`¥^ZU_R_V_]¥_¥_¥V[_OX]XVYBB
@HWI-EAS443:3:3:910:500#0/1
GGGTGGACAGGGATGGTAGATGGATGGTACGGTTATCACC
+HWI-EAS443:3:3:910:500#0/1
aa^SaU`_[`__^^WHX^TRR]WX¥NPSUU_N[PBBBBB
@HWI-EAS443:3:3:918:200#0/1
GCTGCTTTGAATTTTACCACAAATGCGATAACACGTGCAT
+HWI-EAS443:3:3:918:200#0/1
a_aa_a`aa`aaa`a_Y_a]`^^^X_]Z]^^^Z]V_Z^]
@HWI-EAS443:3:3:92:1368#0/1
CTGGCTGGATCCTGGGAAATCCAGAGTGTGAATCACTCTC
+HWI-EAS443:3:3:92:1368#0/1
aba_]XY]JZ]aUa`¥PU`````_Y¥Y[TL__`_T_]VUB
@HWI-EAS443:3:40:1017:794#0/1
TGGCATTCTGTGTGCTCTTCAGGTCGGCTGCATATCCTGA
+HWI-EAS443:3:40:1017:794#0/1
__VWbbbabab_bbb^abb_a_aa_a^a_aaa^aa]__
@HWI-EAS443:3:40:1022:67#0/1
GGGGGGTGGACAGGGATGGTAGATGGATGGTACGGTTATC
+HWI-EAS443:3:40:1022:67#0/1
a`WFU`SZa¥MUa¥YMU¥]UPQUW¥¥SSTQSWUWPTTOU
@HWI-EAS443:3:40:1046:414#0/1
ATCATTGAAAGTTTGAGATATCCCCAAGACAAGTTCA
+HWI-EAS443:3:40:1046:414#0/1
a`_aabba`XXab]aabbaaaaa`a_W^aa^`]`^a_
@HWI-EAS443:3:40:1056:615#0/1
CTGACAAGTTGTATTGCAATCGTGGACTGGTGTATCTGAA
+HWI-EAS443:3:40:1056:615#0/1
a¥_TWQV_T]`¥V¥_]`¥^^ZaWaa]_RMYJ]VUY`]`R^
@HWI-EAS443:3:40:1103:1386#0/1
AATTTTTGTAGAAGCTTTTTGCTCCAGCATGAGGACATGC
+HWI-EAS443:3:40:1103:1386#0/1
¥aababbaaaaa`baab_aaaa_b]`_a_]`a`]_a__Y`
@HWI-EAS443:3:40:1136:1008#0/1
AACTGATTGCCCCAGGGAGACTACCAGTACCAATGAACT
+HWI-EAS443:3:40:1136:1008#0/1
aaaaaaaaabaa_ba`aaa[[Z`_a_VH_WaW`^¥``a_`^
@HWI-EAS443:3:40:1171:166#0/1
CATCGATTATGAGGAGCTAAGAGAGCAATTGAGCTCAGTG
+HWI-EAS443:3:40:1171:166#0/1
Y_¥aW^¥YT`_Y``S[a^`Ya`_ZYWGTYWY[^``_RYY_
@HWI-EAS443:3:40:1194:1152#0/1
TCCATCTACTAGTGCTGACCAACAAAGTCTCTATCAGAAT
+HWI-EAS443:3:40:1194:1152#0/1
a`_aaTaaa]a]a```a]a`a_`^^Za_[_]`^_a_Y[V
@HWI-EAS443:3:40:1209:948#0/1
CAGAAACTGATTGCCCCAGGGAGACTACCAGTACCAATG

+HWI-EAS443:3:40:1209:948#0/1
`bababbbaabbb_b_bbbbab_a`abbbab]]_b[ba`
@HWI-EAS443:3:40:1224:1496#0/1
GGGGCATTACCATCCATCTACTAGTGCTGACCAACAAAG
+HWI-EAS443:3:40:1224:1496#0/1
a_]a^abb^baabaa^aa`ab^`aaU^_b`_a[b]abab`
@HWI-EAS443:3:40:1263:657#0/1
AAGCCAGTTAAAAACAATGCCAAGGAAATTGGAAACGGC
+HWI-EAS443:3:40:1263:657#0/1
abaaaab`aaaa`a_aaaaaa`a`XaY`^_aa^aa]X
@HWI-EAS443:3:40:1279:675#0/1
GCTTCCTCTGAGTATTTGGGTAGTCATAAGTCCCATTTT
+HWI-EAS443:3:40:1279:675#0/1
_`aa`a`a`a`LY_____`¥U__XQNWYZYX]]^X¥Y]^
@HWI-EAS443:3:40:1285:1845#0/1
CATATCCTGACCCCTGCTCATTGATGGTGATAACCGTA
+HWI-EAS443:3:40:1285:1845#0/1
Vaa]bbaM¥b_V_baa[a^`a`_]_b[b_0_aZbaabXXa
@HWI-EAS443:3:40:1296:388#0/1
GGGGCATTACCATCCATCTACTAGTGCTGACCAACAAAG
+HWI-EAS443:3:40:1296:388#0/1
_S_a__aUTYZ[¥X`Z`_QZU_[S^RU_YYY[P[^TWPU
@HWI-EAS443:3:40:1387:1338#0/1
AGCAGTAGGTAAAGAGTTCAACCACCTGGAAAAAAGAATA
+HWI-EAS443:3:40:1387:1338#0/1
aX^aa]aba_a`aa`^F^aa`_a__Z_aa__¥_V^`a^`^
@HWI-EAS443:3:40:1444:1642#0/1
TTGCTATTTCCGGCTTGAACCTTCTTGCTGTATCTTGATGT
+HWI-EAS443:3:40:1444:1642#0/1
`_babbbbb`Ya_]Z[¥aa_aaaa_[baaa`^`^_a^a^a[
@HWI-EAS443:3:40:1476:1148#0/1
AAATGTAACATTGCTGGCTGGATCCTGGGAAATCCAGAGT
+HWI-EAS443:3:40:1476:1148#0/1
`ab`bT`[_[_a¥Za]`bab`[_`aST¥ZaX`_aa`U]a_U
@HWI-EAS443:3:40:1569:1607#0/1
CTTATATGAAAAGGTAAGAAGCCAGTTAAAAACAATGCC
+HWI-EAS443:3:40:1569:1607#0/1
abb`bb`a_b`_`bYbbbb`abbb^aUaa__`_T^aa]
@HWI-EAS443:3:40:1598:1161#0/1
CTTCCTCTGAGTATTTGGGTAGTCATAAGTCCCATTTT
+HWI-EAS443:3:40:1598:1161#0/1
a`abbbbbbbaabbbba^`abba`^Z]`¥Vaa`Y_abbb
@HWI-EAS443:3:40:1612:1937#0/1
TGTCCCCACAAAACATATGCATCTGCATTCTGATAGAGA
+HWI-EAS443:3:40:1612:1937#0/1
a`_]`_``aaaa`aa`a^aaZ^^aaa`X_^``¥XaX
@HWI-EAS443:3:40:161:1644#0/1
TGCCGGTTTCATTGAAGGGGGTGGACAGGGATGGTAGAT
+HWI-EAS443:3:40:161:1644#0/1
^[_`a`aabbbabbaaa`a`aa^T[_a]aa`a`_T``_Z

@HWI-EAS443:3:40:1634:503#0/1
GGGGACATCAAGATACAGCAAGAAGTTCAAGCCGGAAATA
+HWI-EAS443:3:40:1634:503#0/1
a^^^]Y_RO_Y^WY]V^^IV]^XYVRRYUVOVYUUUXYY
@HWI-EAS443:3:40:1647:1109#0/1
CGATGAAATCTCCTGGGTAACACGTTCCATTGTCTGAACT
+HWI-EAS443:3:40:1647:1109#0/1
`¥¥__R]^a`aVZ_aYXQ^aa^`^]ab]^a]a_abaa[a_
@HWI-EAS443:3:40:1649:458#0/1
AAAAAAGTTGATGATGGTTTCCTGGACATTTGGACTTACA
+HWI-EAS443:3:40:1649:458#0/1
aabaabVbaababab_`a^`aaa]a`aa`a`^_a``a_
@HWI-EAS443:3:40:1664:120#0/1
CTCCTCATAATCGATGAAATCTCCTGGGTAACACGTTCCA
+HWI-EAS443:3:40:1664:120#0/1
ababbbbbbbbabbbbbbbbbbbbab_baaaaaaaa`a
@HWI-EAS443:3:40:1687:1601#0/1
TGTGTATTCATCTTTTCAATAACAGAATTTACTTTGTTAG
+HWI-EAS443:3:40:1687:1601#0/1
¥Y`^^a^`]_]a``_]_[_]Z]_TV]^YZ]__`¥__Z
@HWI-EAS443:3:40:1717:1265#0/1
ATTTGAAAGTTTGGATATTTCCCAAGACAAGTTCATGG
+HWI-EAS443:3:40:1717:1265#0/1
abbbaba^^_Vaababababaa`a[¥¥_b`aa`_ab`_a]
@HWI-EAS443:3:40:1718:2033#0/1
CCCAAGGGTGTATAAACACCAGCCTCCCATTTCAGAATA
+HWI-EAS443:3:40:1718:2033#0/1
aabb_aa`0_[N[bbbb`babbb`b`b`aa__`aaaa`a_
@HWI-EAS443:3:40:1729:1267#0/1
TCGAATGTTATTTGTCTCCCGGCTCTACTAGTGTCCAGT
+HWI-EAS443:3:40:1729:1267#0/1
`]_MY`a_`]a]^aa_aa`]_ab_^MPX^VNTY]SQSS]V
@HWI-EAS443:3:40:1744:916#0/1
GAATGTTATTTGTCTCCCGGCTCTACTAGTGTCCAGTAA
+HWI-EAS443:3:40:1744:916#0/1
a^^¥[Q_N]^Z]RRPSRRVMUSTHU^UOWOSFS[BBBBB
@HWI-EAS443:3:40:1757:378#0/1
GCTGGCTGGATCCTGGGAAATCCAGAGTGTGAATCACTCT
+HWI-EAS443:3:40:1757:378#0/1
a_^]YT_[aURRQLY¥_SZZTLRUURWU[SV¥ZRWUZRRS
@HWI-EAS443:3:40:1757:570#0/1
GCTGGCTGGATCCTGGGAAATCCAGAGTGTGAATCACTCT
+HWI-EAS443:3:40:1757:570#0/1
aZ^`]^`^`_RXRRU¥_PDWUXYZ[ZPSFZUUTUSRXTTY
@HWI-EAS443:3:40:1765:987#0/1
GCCAGTTAAAAACAATGCCAAGGAAATTGGAAACGGCTG
+HWI-EAS443:3:40:1765:987#0/1
aaaa__a`aa`a__aaa``]Ra`^^¥^_]V_^`]_`XZT
@HWI-EAS443:3:40:243:1596#0/1
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+HWI-EAS443:3:40:243:1596#0/1
aa]a_ba¥Sa[___^Z[]_]_^`___][^Ya^a`^^^_]_W
@HWI-EAS443:3:40:260:848#0/1
GCTTTTTGCTCCAGCATGAGGACATGCTGCCGTTACACCT
+HWI-EAS443:3:40:260:848#0/1
`aa`a`aaa`aaaa___`a¥S^`a`¥YY]¥_ZY[ZFLY¥
@HWI-EAS443:3:40:272:1243#0/1
CGGGAAACTATGCAAATAAGAGGGGTAGCCCCATTGCAT
+HWI-EAS443:3:40:272:1243#0/1
aba`a`aaaV^aaa]a`a`bY^U`YU][_N[_TQ]YZ^^
@HWI-EAS443:3:40:354:696#0/1
GTTGCTTCGAATGTTATTTGTCTCCCGCTCTACTAGTG
+HWI-EAS443:3:40:354:696#0/1
a^`¥___^Z^¥[_`ZWZ`_]__X]_]_ZXRZXXZRVXXYVRM
@HWI-EAS443:3:40:356:1504#0/1
CTCGGTACCACTAGATTTCCAGTTGCTTCGAATGTTATTT
+HWI-EAS443:3:40:356:1504#0/1
``bbb^babbabb`aaabbbba`aYa^aba_aaa^[U^`a
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CTCTTCAGGTCGGCTGCATATCCTGACCCCTGCTCATTTT
+HWI-EAS443:3:40:403:311#0/1
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@HWI-EAS443:3:40:43:628#0/1
CTGCCGTTACACCTTTGTTGAGTCATGATTGGGCCATGA
+HWI-EAS443:3:40:43:628#0/1
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@HWI-EAS443:3:40:468:1282#0/1
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+HWI-EAS443:3:40:468:1282#0/1
aa``¥Z[`^_]_^_ZWa¥^Y`]Z``^TF[`ZY]S_Zaa_HZ
@HWI-EAS443:3:40:468:505#0/1
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+HWI-EAS443:3:40:468:505#0/1
`babababba`aab`aaaa`aa`a`W`aa_a]a`^^^a
@HWI-EAS443:3:40:489:270#0/1
TACATATTCTACACTGTAGAGACCCATTAGAGCACATCCA
+HWI-EAS443:3:40:489:270#0/1
a`_`````aaaa`_`a]`_`¥][T[WSUZZ[V[Z¥VU^WU
@HWI-EAS443:3:40:493:1646#0/1
TGGGGACATCAAGATACAGCAAGAAGTTCAAGCCGAAAT
+HWI-EAS443:3:40:493:1646#0/1
`a`a___aaaa`_]_aaaa]`abaa^WU¥ab_[]b^^`]Z]
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CCTCTGAGTATTTGGGTAGTCATAAGTCCCATTTTGTGAC
+HWI-EAS443:3:40:499:263#0/1
abbbbbb]abbaaab`ab_aaaaa]a`_]`^^^a^_
@HWI-EAS443:3:40:533:59#0/1
GGCTGCTTTGAATTTTACCACAAATGCGATAACACGTGCA
+HWI-EAS443:3:40:533:59#0/1
a_]a[^]_]¥]_`_]^[^]W]]X^Z¥RYXZZZWVZXT

@HWI-EAS443:3:40:575:1622#0/1
ATTTGGACTTACAATGCCGAAGTGGTTCTATTGGAAA
+HWI-EAS443:3:40:575:1622#0/1
_`bbbbbababbaab`bbaaa`bb`^`_a]__aaa`Y`^aa
@HWI-EAS443:3:40:57:612#0/1
TAGATTTCCAGTTGCTTCGAATGTTATTTTGTCTCCCGGC
+HWI-EAS443:3:40:57:612#0/1
a_`a`aaaaa^`_`aaa`a`X]`a_[TTaX_VV`[_`_`[¥[
@HWI-EAS443:3:40:59:1887#0/1
AAAAGGTAAGAAGCCAGTTAAAAACAATGCCAAGGAAAT
+HWI-EAS443:3:40:59:1887#0/1
aaaa^^Ua^YaaX`a`V¥Q_`^I^`ZG¥[_]a_V[[X]W[
@HWI-EAS443:3:40:603:1248#0/1
CAACAAAGTCTCTATCAGAATGCAGATGCATATGTTTTTG
+HWI-EAS443:3:40:603:1248#0/1
abba^a^abbabab`babbbbb¥_a^aaaabb`¥baba`
@HWI-EAS443:3:40:631:366#0/1
ATCGCATTTGTGGTAAAATTCAAAGCAGCCGTTTCCAATT
+HWI-EAS443:3:40:631:366#0/1
ab¥`J¥b^aa^abXb¥Z[]]WW_¥¥RV_`^`]L[]__WNZZ
@HWI-EAS443:3:40:67:171#0/1
GCTTCCTCTGAGTATTTTGGGTAGTCATAAGTCCCATTTT
+HWI-EAS443:3:40:67:171#0/1
a_^[]_^[]^]¥aTZ¥_____SV[SVLVLVWRX[YJQVW¥
@HWI-EAS443:3:40:706:1205#0/1
TGGAAAATGAAAGAAGTGGACTACCACGATTCAAATGT
+HWI-EAS443:3:40:706:1205#0/1
a^¥FV[]_V_a¥^¥ZX[_`a[aY`¥0¥^`¥YYVaYUZa` [
@HWI-EAS443:3:40:706:621#0/1
ATATCCCAAGACAAGTTCATGGCCCAATCATGACTCGA
+HWI-EAS443:3:40:706:621#0/1
^`aaabababaa_`a`[^^a`_`____[LQZ^Z^YQ¥^aZZ
@HWI-EAS443:3:40:719:665#0/1
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+HWI-EAS443:3:40:719:665#0/1
aaabaaaaa^a_`aaa`aa]_UX[¥KNXLZ^^`_WJX_[R
@HWI-EAS443:3:40:761:1657#0/1
GCTGGATCCTGGGAAATCCAGAGTGTGAATCACTCTCCAC
+HWI-EAS443:3:40:761:1657#0/1
bR]PUa``^X[_¥XJ]_[_`aNau¥a_YGXV_a¥aUVR
@HWI-EAS443:3:40:768:1089#0/1
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+HWI-EAS443:3:40:768:1089#0/1
aababbbaabaaaaabaaa_babaaa`a[aab_S_aaa`a
@HWI-EAS443:3:40:768:198#0/1
AATTTACTTTGTTAGTAATCTCGTCAATGGCATTCTGTGT
+HWI-EAS443:3:40:768:198#0/1
a_babaababbabb_`_`abaab_a_S__`T`X¥^a]_V
@HWI-EAS443:3:40:806:1128#0/1
TCCTCGTGCTATGGGGCATTACCATCCATCTACTAGTGC

+HWI-EAS443:3:40:806:1128#0/1
abaaaa_aaa__aa`^¥aa_]_aa_`¥`_Ya_]P]¥__
@HWI-EAS443:3:40:814:1114#0/1
CCCAGGGAGACTACCAGTACCAATGAACTGGCGACAGTTG
+HWI-EAS443:3:40:814:1114#0/1
aba__bb_aa`aaU_aaV`a]J^[_]WZV`_`a__`^]ZV
@HWI-EAS443:3:40:819:1007#0/1
ATCCTGACCCCTGCTCATTGATGGTGATAACCGTACCA
+HWI-EAS443:3:40:819:1007#0/1
aX^`¥ZZ^¥¥¥^WWW¥YYWVWSUVSWRGRVVXWWWQWYY
@HWI-EAS443:3:40:843:1929#0/1
GCTTTTTGCTCCAGCATGAGGACATGCTGCCGTTACACCT
+HWI-EAS443:3:40:843:1929#0/1
`_`aaaaRa__Ya^_a_`_`^¥aZMMa_ZWYVLY_`BBBB
@HWI-EAS443:3:40:882:1650#0/1
TTTGTAGTAATCTCGTCAATGGCATTCTGTGTGCTCTTC
+HWI-EAS443:3:40:882:1650#0/1
ab```ba__aaaa`aa[aaX[____`U`^_]SZ[_[_`¥_
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``ZN]U^`^_YWGUJY`¥MX[QZ__YN¥WQZT¥WYUQSSF
@HWI-EAS443:3:40:98:1858#0/1
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+HWI-EAS443:3:40:98:1858#0/1
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@HWI-EAS443:3:40:996:921#0/1
ATGGTGAATGCCCCATAGCACGAGGACTTCTTCCCTTTA
+HWI-EAS443:3:40:996:921#0/1
`a`^_baaaaaaa^U_```aa_abaa^`^`_`Z^`a_`_W
@HWI-EAS443:3:42:1007:1617#0/1
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+HWI-EAS443:3:42:1007:1617#0/1
aaaaaa`aaaa`aa_`^Z_]a_`__a`^^¥]^YZ`_]`
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+HWI-EAS443:3:42:1008:960#0/1
aaaaaa[X`_abaa_aPa¥``aa[PUY¥_GX`ZM^]_VUa
@HWI-EAS443:3:42:1017:125#0/1
GACACTAGTAGAGCCGGGAGACAAAATAACATTCTGAAGCA
+HWI-EAS443:3:42:1017:125#0/1
aaababaa_ab`b__baa]^`^````_`_]_a_¥a^_a_`^
@HWI-EAS443:3:42:1026:956#0/1
GGGACATCAAGATACAGCAAGAAGTTCAAGCCGGAAATAG
+HWI-EAS443:3:42:1026:956#0/1
`^_PU_^]XZ_`_]`[^a`_`a]ZS][[_TV]XUYT]WZ]
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+HWI-EAS443:3:42:1033:949#0/1
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+HWI-EAS443:3:42:1125:1154#0/1
aa¥`abbbbbaaa`aba__a_¥aa`a`Z]_`a`[]a[a`
@HWI-EAS443:3:42:1174:167#0/1
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+HWI-EAS443:3:42:1174:167#0/1
aabaaba`abaaa`aaaa`aaaaTa¥`__``[BBBBBBB
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CTCTGTTTAAATTTTGCTTCTGAGTATTTTGGGTAGTC
+HWI-EAS443:3:42:1212:554#0/1
abba`^bbbbbaabaab`ababbbaa`]aaaaaba]`_`
@HWI-EAS443:3:42:1221:380#0/1
GGCCATTGCCGGTTTCATTGAAGGGGGTGGACAGGGATG
+HWI-EAS443:3:42:1221:380#0/1
aaaaaaaa`^`^a¥a`_Zaa]YQ`a`_aaMaa^¥¥_a`M[^
@HWI-EAS443:3:42:131:584#0/1
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+HWI-EAS443:3:42:131:584#0/1
a¥M[a`¥][QYYaa`¥X[¥U]XXX[YZQ[VTXQ[QRVNBB
@HWI-EAS443:3:42:1341:395#0/1
GCTTCTGAGTATTTTGGGTAGTCATAAGTCCCATTTT
+HWI-EAS443:3:42:1341:395#0/1
aaab]`]Xba_a__a`Z`a`T_`]X_a__aQ^^^`_a`
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+HWI-EAS443:3:42:1350:745#0/1
PRUY`_`a¥S¥0^`¥T^^aaa`X^aaa_Z`Y¥Z[Yaaaa_
@HWI-EAS443:3:42:1370:1538#0/1
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+HWI-EAS443:3:42:1370:1538#0/1
aaaaaa`a`b`baaaabaaba_aa_a`aaaa]_____`_]
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+HWI-EAS443:3:42:137:913#0/1
`Y`¥aaba_baaa_a`a^`_a_`a`a`_`^]`^RR`^`RKM
@HWI-EAS443:3:42:1384:929#0/1
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+HWI-EAS443:3:42:1384:929#0/1
]N`_a^Z`_¥T^`^`_`^]aXU`]U^`Wa`¥OWSI¥]U¥[
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+HWI-EAS443:3:42:1488:997#0/1
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@HWI-EAS443:3:42:1511:48#0/1
GAAGCCAGTTAAAAACAATGCCAAGGAAATTGGAAACGG
+HWI-EAS443:3:42:1511:48#0/1
abbaaababaaaaaa`aab`_`__aa__a_a_^`_`_a`
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GAAGTCTCGTGTATGGGGCATTACCATCCATCTACTA

+HWI-EAS443:3:42:1518:1189#0/1
]¥_^_aababab`a^`Yaaa_Yaa`aa[D[[_^a_aa[`Y
@HWI-EAS443:3:42:151:131#0/1
AATTTTGCTTCCTCTGAGTATTTGGGTAGTCATAAGTCC
+HWI-EAS443:3:42:151:131#0/1
aaaaaaaa`aaaa`a_aa]a`a_`a__]_a]^^`_`Z_]`
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+HWI-EAS443:3:42:1546:261#0/1
`a___]_]Y]¥`¥[¥¥__Y_]`^¥RX[]]¥TU[YYZ¥[[
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+HWI-EAS443:3:42:1596:831#0/1
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@HWI-EAS443:3:42:1645:1485#0/1
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+HWI-EAS443:3:42:1645:1485#0/1
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@HWI-EAS443:3:42:1679:159#0/1
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+HWI-EAS443:3:42:1679:159#0/1
ababbabaaabbaaabb`ba¥`a`ba_aaXaa_[_a``¥
@HWI-EAS443:3:42:1701:711#0/1
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+HWI-EAS443:3:42:1701:711#0/1
a`X``aa`[]_V_[X^_Z`]UZ`T`^`VYG^^aRZaMDU
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+HWI-EAS443:3:42:1707:1750#0/1
aa`]¥]]OYZQ]aZ[]aXa^_]UQ]_HZ_XUQLW¥^]]S
@HWI-EAS443:3:42:1718:1558#0/1
TTGCTGTATCTTGATGTCCCCACAAAAACATATGCATCTG
+HWI-EAS443:3:42:1718:1558#0/1
aaab_Y_a`X`aa_]_`a]]_aa`aaa_a__^U¥]¥]_^
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CAATAACAGAATTTACTTTGTTAGTAATCTCGTCAATGGC
+HWI-EAS443:3:42:194:1747#0/1
_abb^RY_Y]bbb¥H_aa_b^bb_Y`X¥abbbVZ_ZI]W_
@HWI-EAS443:3:42:194:604#0/1
GCAGGGGTCAGGATATGCAGCCGACCTGAAGAGCACACAG
+HWI-EAS443:3:42:194:604#0/1
¥¥^Ya^^T`Y_W`]`V¥^]]Z`]X`]``aa`aa^`^[a¥
@HWI-EAS443:3:42:19:341#0/1
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+HWI-EAS443:3:42:19:341#0/1
aaa]aa`VX_`a^``Z[R[LYZ^YYY^_ZZ[RY¥TTWWZ_
@HWI-EAS443:3:42:208:405#0/1
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+HWI-EAS443:3:42:208:405#0/1
abbbbbbaaabb`aaaa_aaaYaa_aaaaaa¥_a_aaaaa

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+HWI-EAS443:3:42:283:82#0/1
aabaaUa`aaa]a`aaU¥a_``aaaa]__aa[PU`¥VZ[S
@HWI-EAS443:3:42:299:1034#0/1
GTTGGTCAGCACTAGTAGATGGATGGTGAATGCCCCATAG
+HWI-EAS443:3:42:299:1034#0/1
a_`^^Pa_`aR^a[`[¥VZ_a_ZQ_[V`a_`__^P___¥[
@HWI-EAS443:3:42:311:467#0/1
CTGCCGTTACACCTTTGTTTCGAGTCATGATTGGGCCATGA
+HWI-EAS443:3:42:311:467#0/1
a_`aa__^baaaaaaaaa_aa`aa]aaab_``_a_`a^_a_
@HWI-EAS443:3:42:331:1408#0/1
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+HWI-EAS443:3:42:331:1408#0/1
aabb`baba`bbaaaWb`U`a]a¥]V_^`[`X]_¥ROZQ_^
@HWI-EAS443:3:42:378:913#0/1
GAACTCTTTACCTACTGCTGTGAAGTGTGATTTCATCTTT
+HWI-EAS443:3:42:378:913#0/1
_`[`a``]a``aaa`__`¥Z_LZW)`XRF¥RV]WZ]¥^[_]
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+HWI-EAS443:3:42:389:164#0/1
aabaaaaaaaa``aaaa]aaaa`_ba```_a_`^`a____
@HWI-EAS443:3:42:428:1925#0/1
CAGTTAAAAACAATGCCAAGGAAATTGGAACGGCTGCT
+HWI-EAS443:3:42:428:1925#0/1
¥babbabb`babaaaa`aaaa¥aa`^`aa`]_b¥^QU
@HWI-EAS443:3:42:434:707#0/1
AGACTTTGTTGGTCAGCACTAGTAGATGGATGGTGAATGC
+HWI-EAS443:3:42:434:707#0/1
ab]abaab`abb[^aa``¥aaaU_a`a]^`a_`[`a_¥`_
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+HWI-EAS443:3:42:440:1997#0/1
aba_a`_bab``a`Zaaa_`a^b^`a``aaaa`aRHX^aa
@HWI-EAS443:3:42:442:730#0/1
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+HWI-EAS443:3:42:442:730#0/1
a``Z]abbbbbbb]aabbaabbabaaaabaI]^ababaa]
@HWI-EAS443:3:42:468:682#0/1
GAACTGTGATTTCATCTTTTCAATAACAGAATTTACTTTG
+HWI-EAS443:3:42:468:682#0/1
V_^`bb`b`bbabbabbbbbbbbabbbb_abbabbbabb
@HWI-EAS443:3:42:483:1146#0/1
AGGGAGACTACCAGTACCAATGAACTGGCGACAGTTGAAT
+HWI-EAS443:3:42:483:1146#0/1
^`b`bbbbbbbabZbbbbbbba[Y`aa_bb`aa]^a`aa[
@HWI-EAS443:3:42:494:254#0/1
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+HWI-EAS443:3:42:494:254#0/1
aabb__`aaa_a`_`_]V`_`_a^aZZ`_`^`ZZ^`_`_`BBBBB
@HWI-EAS443:3:42:496:829#0/1
CGAGTCATGATTGGGCCATGAACTTGTCTTGGGGAATATC
+HWI-EAS443:3:42:496:829#0/1
abbbaa]aaaa_aaaabaaaaaaaa_aaaaa`V``aa_
@HWI-EAS443:3:42:55:1613#0/1
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+HWI-EAS443:3:42:55:1613#0/1
]bab]babbb_aaab`^[bbbaa`abb`¥bab_aab_S_S
@HWI-EAS443:3:42:560:1240#0/1
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+HWI-EAS443:3:42:560:1240#0/1
aaaWSZbaaa¥¥X`Y]Z]a_]Y`^_aa¥]aa```¥]`_`^
@HWI-EAS443:3:42:566:897#0/1
GCTTCCTCTGAGTATTTGGGTAGTCATAAGTCCCATTTT
+HWI-EAS443:3:42:566:897#0/1
`]Yaa[^aa`aa^L`^¥_aaaV[[G¥_]`^_]T¥_]_]Z[
@HWI-EAS443:3:42:614:508#0/1
GGGACATCAAGATACAGCAAGAAGTTCAAGCCGAAATAG
+HWI-EAS443:3:42:614:508#0/1
abba_aa`^abaaaab`_aba_^a^`ba`a_a____`````
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+HWI-EAS443:3:42:614:688#0/1
YQJ[Z[]¥VSY`S¥X_aa¥¥bbb_bZOYK]b]aJIYS_TT
@HWI-EAS443:3:42:61:548#0/1
CCTGCTCATTGATGGTGATAACCGTACCATCCATCTAC
+HWI-EAS443:3:42:61:548#0/1
aaaaa``aaaa^`^^``¥_`^¥aa_Z¥SLY^¥YY[¥_`[_^
@HWI-EAS443:3:42:630:56#0/1
GGGGCATTACCATCCATCTACTAGTGCTGACCAACAAAG
+HWI-EAS443:3:42:630:56#0/1
a__UV¥VPT[^_ZR_ROPZRT]WV¥Y]VU]RXXXPWUXX]
@HWI-EAS443:3:42:647:1196#0/1
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+HWI-EAS443:3:42:647:1196#0/1
ab_babbbbbbbaa]babbaaa]aaS`aaaa_a`a_aaaa
@HWI-EAS443:3:42:672:360#0/1
GCTGGATCCTGGGAAATCCAGAGTGTGAATCACTCTCCAC
+HWI-EAS443:3:42:672:360#0/1
ababaa`aa]baa¥aaaa^`aZ`Z`^`_`¥`_`_`_`^`[aa]
@HWI-EAS443:3:42:690:671#0/1
GTGTATTCATCTTTTCAATAACAGAATTTACTTTGTTAGT
+HWI-EAS443:3:42:690:671#0/1
^¥`W¥aa^Z`aa^aaaa`a¥[¥^`aaaa`_`¥_a_a_aa]S
@HWI-EAS443:3:42:721:76#0/1
CTTCAATGAAACCGCAATGGCCCCAAATAGGCCTCTAGA
+HWI-EAS443:3:42:721:76#0/1
a`a`babba_`bb`b`Y[a`a`_aabZa]a_a```aa`

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+HWI-EAS443:3:42:782:391#0/1
]abaSa`a]UFUa^_ab`aba[[Q`aa^aS[¥U[a_R¥
@HWI-EAS443:3:42:80:184#0/1
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+HWI-EAS443:3:42:80:184#0/1
¥SZaa_]_^ZXbaaa]abaaa[aaab`a`W^a_`_X]^`_
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GAGACAAAATAACATTCTGAAGCAACTGGAAATCTAGTGGT
+HWI-EAS443:3:42:814:472#0/1
aaa_a_aaaab__^a`aa__a__a__aa_`__¥a^aZa`Z
@HWI-EAS443:3:42:856:1064#0/1
GCTGGCTGGATCCTGGGAAATCCAGAGTGTGAATCACTCT
+HWI-EAS443:3:42:856:1064#0/1
aab_¥]aa`]^aa__`^aa__a_`_^S_U^_^[Z`^Z_¥
@HWI-EAS443:3:42:882:507#0/1
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+HWI-EAS443:3:42:882:507#0/1
a^RX`b_T_^[\`YYS[] [IZSL[[¥¥]V`WWW¥Z^SZXQU
@HWI-EAS443:3:42:916:544#0/1
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+HWI-EAS443:3:42:916:544#0/1
a]a]aa`aa¥^a__Y_^T_^R]^`Z`^_Y_¥`ZZZV_U^[U
@HWI-EAS443:3:42:98:903#0/1
GTGGGGACATCAAGATACAGCAAGAAGTTCAAGCCGGAAA
+HWI-EAS443:3:42:98:903#0/1
a[\`a^X___a`[\`^__aa`][X]][]Z¥a`¥^¥`¥XI[
@HWI-EAS443:3:42:992:1705#0/1
TGAGCTTGCTGTGGAGAGTGATTCACACTCTGGATTCCC
+HWI-EAS443:3:42:992:1705#0/1
]bb`]bbaabaabb]ZZ`_aaaa_aab`aa¥YZa_``¥
@HWI-EAS443:3:42:993:323#0/1
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+HWI-EAS443:3:42:993:323#0/1
a^a`^^^]_``__a_a_a`__a`__aX]_`^`Y^_^]]
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GGGTAGTCATAAGTCCCATTTTTGACACTTTCCATGCACG
+HWI-EAS443:3:42:997:985#0/1
a``]aaZa_a_``^`]__a`^aaS^`¥^_^]]_^X]_`_
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+HWI-EAS443:3:43:1000:1096#0/1
`Z)`aaa`]a¥_]_^_ZW]_[]`_ [W[]]¥]X[W[Y[]
@HWI-EAS443:3:43:1008:543#0/1
CACTAGTAGATGGATGGTGAATGCCCCATAGCACGAGGAC
+HWI-EAS443:3:43:1008:543#0/1
ab_b`b]abaabb_aab`bbaabaaa^aaaa^aaa_aa_Z
@HWI-EAS443:3:43:1011:596#0/1
ACTAGATTTCCAGTTGCTTCTGAATGTTATTTTGTCTCCCG

+HWI-EAS443:3:43:1011:596#0/1
aab`babbab`abaaa[aZ]^Zabaa¥aaba_[W]W]¥_
@HWI-EAS443:3:43:1015:1328#0/1
GCATATCTCGGTACCACTAGATTTCCAGTTGCTTCAATG
+HWI-EAS443:3:43:1015:1328#0/1
a`Xa_^_]¥[_X`^][YUU`__^^VZ^OV]ZNV¥V_VVX^
@HWI-EAS443:3:43:1053:622#0/1
CACCAGTCCACGATTGCAATACAACCTGTCAGACACCCAA
+HWI-EAS443:3:43:1053:622#0/1
`^_bbba``bab`baabbabbbbabab_bbba`b`^Uaa
@HWI-EAS443:3:43:1061:1034#0/1
CTCTGTTTAATTTTGCTTCCTCTGAGTATTTTGGGTAGTC
+HWI-EAS443:3:43:1061:1034#0/1
aa`^`[^`abaaaaZ¥[^bbbaaY_abb^_¥_PZTbZ
@HWI-EAS443:3:43:1128:450#0/1
GGCATTCTGTGTGCTTTCAGGTCGGCTGCATATCCTGAC
+HWI-EAS443:3:43:1128:450#0/1
ababbbaab[a_aaa`aa`aa[]aaa_aa_`a`Z_`_`S
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+HWI-EAS443:3:43:1130:635#0/1
^bbbaabbbbbbbaabbbbabbbbbbabb
@HWI-EAS443:3:43:1141:1182#0/1
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+HWI-EAS443:3:43:1141:1182#0/1
abaaZa_aY`aa[aa_]^_Y[aa__a_U¥a_[V]V¥^Z[¥
@HWI-EAS443:3:43:1150:1765#0/1
AATTAACAGAGAAGAAATAGATGGGGTAAAGCTGGAATC
+HWI-EAS443:3:43:1150:1765#0/1
Y`ba¥a^Yaa^abba¥YY^ababbZT_^[[PMTa[T_¥XS
@HWI-EAS443:3:43:1183:341#0/1
CCTCATAATCGATGAAATCTCCTGGGTAACACGTTCCATT
+HWI-EAS443:3:43:1183:341#0/1
aabbbbabbbbaabaaabaa`aaaa`_aaaa_a_a_^`a`
@HWI-EAS443:3:43:1186:962#0/1
GGGCCATGAACCTTGTCTTGGGAATATCTCAAACCTTTCA
+HWI-EAS443:3:43:1186:962#0/1
_a_V_¥QYR^T`¥GUYV^¥ZYQ00V[S¥S¥T¥¥T]UY^Z
@HWI-EAS443:3:43:1239:1179#0/1
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+HWI-EAS443:3:43:1239:1179#0/1
`a[_abbababbbab_b`aabaaa_aaaa`aa`^aaaa`
@HWI-EAS443:3:43:1252:2001#0/1
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+HWI-EAS443:3:43:1252:2001#0/1
aaaa^_M^]`__a`a`XUU[`Y`a`¥`_`ZNY[YR[YX
@HWI-EAS443:3:43:1256:1138#0/1
GGGGACATCAAGATACAGCAAGAAGTTCAAGCCGAAATA
+HWI-EAS443:3:43:1256:1138#0/1
`baaa[`PV_`a^aaaa_aaaa_a_`_`[a_U`W^_¥`_`

@HWI-EAS443:3:43:1256:217#0/1
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+HWI-EAS443:3:43:1256:217#0/1
_Za`aaababaaaa]_aa_aa]aaa]a__`^ZMZx¥^^^
@HWI-EAS443:3:43:1282:486#0/1
AGCTCCTCATAATCGATGAAATCTCCTGGGTAACACGTTC
+HWI-EAS443:3:43:1282:486#0/1
`_bbaabaa`aaab`aa_aaa```_`aaa]a`_a_a¥^_
@HWI-EAS443:3:43:1289:265#0/1
GAGACTTTGTTGGTCAGCACTAGTAGATGGATGGTGAATG
+HWI-EAS443:3:43:1289:265#0/1
a_b`_bbbb`aba_a`a__^a_a^_a`aa[_aaU`]X^a
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+HWI-EAS443:3:43:1294:1034#0/1
G[TP[Y`_V_bZa_UYbb`__X_X`¥b_]Z]UbTTXX0`b
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GAAAAGGTAAGAAGCCAGTTAAAAACAATGCCAAGGAAA
+HWI-EAS443:3:43:1297:770#0/1
````\_]`a`\_\_\_\_W]aaX`a¥`¥]`^```a^Z]¥`]ZQX  
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TAACCGTACCATCCATCTACCATCCCTGTCCACCCCTT  
+HWI-EAS443:3:43:1308:1067#0/1  
aaaa\_a¥a\_\_aa^\_a\_aa\_\_a\_\_\_\_`¥\_¥U¥UW^W^W  
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+HWI-EAS443:3:43:1311:564#0/1  
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+HWI-EAS443:3:43:1321:465#0/1  
aa^a\_\_^aaNaU\_] [¥\_¥¥¥¥\_^[^^^`S^Z¥W`TVXW¥Y  
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+HWI-EAS443:3:43:1485:642#0/1  
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+HWI-EAS443:3:43:1547:646#0/1  
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+HWI-EAS443:3:43:171:601#0/1  
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ab^aa`aa`^`a`^^`^[\_a^\_a`X`^a^YU]`[\_`¥a¥\_  
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+HWI-EAS443:3:43:1757:202#0/1  
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+HWI-EAS443:3:43:196:1355#0/1  
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@HWI-EAS443:3:43:213:929#0/1  
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+HWI-EAS443:3:43:213:929#0/1  
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+HWI-EAS443:3:43:230:1441#0/1  
aaaaa`aaba`^`a`^`aba`aa`a\_a`^`aaaaa`^`aa`a`\_`  
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+HWI-EAS443:3:43:247:801#0/1  
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\_bbbb¥¥0]``ab`\_bbbbbb`\_W[^a^aaaV`YH\_`S\_b  
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+HWI-EAS443:3:43:54:1547#0/1  
Z[\_¥X]aaaa````aa\_Y\_^\_\_¥¥¥\_¥`]``¥\_`\_\_^\_\_  
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+HWI-EAS443:3:43:551:497#0/1  
aa`\_a]`b\_aaba^\_aabaUa^^^`aaa^`a`V^¥[V^  
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+HWI-EAS443:3:43:587:203#0/1  
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+HWI-EAS443:3:43:609:45#0/1  
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+HWI-EAS443:3:43:682:738#0/1  
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+HWI-EAS443:3:43:69:1737#0/1  
a¥^Y`aa[\_XZ\_W\_`\_S`[a^]Y\_`W\_`^¥YYY]Z]¥`  
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GCCAGTTAAAAACAATGCCAAGGAAATTGGAAACGGCTG  
+HWI-EAS443:3:43:782:829#0/1  
\_T[aa^aaaa\_\_^\_a`a\_]¥\_a`^`\_`\_`¥\_\_^`]¥^¥  
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+HWI-EAS443:3:43:814:1226#0/1  
`\_]Z]Z`a^\_]VU\_\_`abaaa^a`U`a`a`X\_][\_F  
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+HWI-EAS443:3:43:814:454#0/1  
]a\_\_Zaa`X[`b`bbbaa][`aaaa\_\_a\_\_^`\_\_Z]¥  
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+HWI-EAS443:3:43:843:1706#0/1  
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+HWI-EAS443:3:43:857:1244#0/1  
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+HWI-EAS443:3:43:899:1349#0/1  
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+HWI-EAS443:3:43:963:1007#0/1  
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a\_aaabababba\_`a\_¥aa\_\_`aaaaP`a``\_]PP``\_a  
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+HWI-EAS443:3:44:1012:1002#0/1  
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+HWI-EAS443:3:44:1065:767#0/1  
a]aababaaaaa\_`^`abaa\_a¥]^`a`\_]\_\_^`\_^`  
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+HWI-EAS443:3:44:1066:1535#0/1  
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+HWI-EAS443:3:44:1108:498#0/1  
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+HWI-EAS443:3:44:1180:35#0/1  
aa`a\_^`\_^`\_a`\_\_YHa^^`a]UaY^]`^^]V^]YXXXY  
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R\_[J```abb\_[[bbaababbbbWbaaXa`baa`XabbaRT  
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@HWI-EAS443:3:44:1476:305#0/1  
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+HWI-EAS443:3:44:1476:305#0/1  
a\_aab\_aa`^aba[`aa`a\_`Y``¥¥¥\_\_\_U¥`^V^^¥V¥  
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+HWI-EAS443:3:44:1565:1235#0/1  
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a\_abb\_aba^aab\_abaa`aaWaa¥^\_aaa^\_aaQ\_]V\_  
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+HWI-EAS443:3:44:1683:1444#0/1  
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+HWI-EAS443:3:44:389:1245#0/1  
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+HWI-EAS443:3:44:493:1029#0/1  
Z[\_]\_ab\_¥L]\_a`[^a`[\_^V^^Z\_Y`YL[\_a\_XX]`[  
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aabbaababababbabb\_aa^^aaa[\_a[Z^aaaa]a`X  
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Z]\_`\_¥b\_¥Q``^babbbaZX\_G[b`abZ]Z]]RZ`¥^]]  
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aa\_]\_``Xaa`\_^\_aa`aab`X]^I^[baa]\_a`]a\_\_\_^  
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aaa`][a^aX¥]^`\_\_Y`\_^a]^RY^^\_¥^^\_WZRUX¥[  
@HWI-EAS443:3:44:77:1158#0/1  
AAAGTCTCTATCAGAATGCAGATGCATATGTTTTTGTGGG  
+HWI-EAS443:3:44:77:1158#0/1  
aaa`\_aa`a``aa[^ZY]Z]Y]a\_\_^¥`a^`a\_`¥T\_\_^  
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+HWI-EAS443:3:44:831:389#0/1  
aaaa\_aabaaaa`aa`aaaaa\_aa`a`aa\_aaaaYaaa  
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+HWI-EAS443:3:44:834:1118#0/1  
a^\_]\_Uabb`[a`^a^R\_¥`^`Z]Y]¥UV^`aa¥]aaaa\_  
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+HWI-EAS443:3:44:856:208#0/1  
aaXa`aaa\_a\_a\_a\_\_a[`^`\_a]^`a``]]Y`\_Y\_^\_]`  
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+HWI-EAS443:3:44:938:199#0/1  
]bbb\_b\_ab`a^a`bb^¥b¥`^^`\_`\_`\_\_\_\_\_¥^\_a^]\_  
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GAACTGTGTATTTCATCTTTTCAATAACAGAATTTACTTTG  
+HWI-EAS443:3:44:952:1273#0/1  
¥U^abbbb`bab^[aabbb\_ba``aaabbababa\_abb`b  
@HWI-EAS443:3:44:996:791#0/1  
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+HWI-EAS443:3:44:996:791#0/1  
aaa\_¥]]`a``aaa\_^aaabaa`^¥`[a]\_```a]a\_\_a\_  
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a`b`aa\_baaWaWa]a]\_aaY[¥`\_aa\_]a\_^aaa`\_`^a  
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+HWI-EAS443:3:45:107:708#0/1  
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+HWI-EAS443:3:45:1099:1511#0/1  
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+HWI-EAS443:3:45:1116:1065#0/1  
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ATCCATCTACTAGTGCTGACCAACAAAGTCTCTATCAGAA  
+HWI-EAS443:3:45:117:1504#0/1  
aab\_ab¥\_a`a\_\_`a`a`a`^`\_\_aa]PJ[\_`a\_aS`S\_\_  
@HWI-EAS443:3:45:1184:1260#0/1  
GGAACGTGTTACCCAGGAGATTTTCATCGATTATGAGGAGC  
+HWI-EAS443:3:45:1184:1260#0/1  
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+HWI-EAS443:3:45:1255:194#0/1  
a`aaaaaba\_b`a\_a\_``\_a\_a\_`a^aaX\_]]^]]\_X  
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+HWI-EAS443:3:45:1295:1017#0/1  
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+HWI-EAS443:3:45:1322:132#0/1  
a^`aa`\_aa^\_\_¥¥\_a^a`[\_aa]^`^U\_]`^Y`\_^Y  
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+HWI-EAS443:3:45:1376:713#0/1  
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+HWI-EAS443:3:45:1397:1849#0/1  
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+HWI-EAS443:3:45:1421:1634#0/1  
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+HWI-EAS443:3:45:1510:1845#0/1  
a^aaaaa\_¥aaa\_Za^a^W¥^\_aOMT``\_`\_]Y]X[W^^  
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+HWI-EAS443:3:45:1514:142#0/1  
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@HWI-EAS443:3:45:1544:1291#0/1  
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+HWI-EAS443:3:45:1544:1291#0/1  
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+HWI-EAS443:3:45:1566:981#0/1  
aaaa^aa^aa\_\_aa\_a\_]a\_\_`\_\_\_\_^]¥[``\_`Y\_^\_`^^  
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+HWI-EAS443:3:45:1586:1567#0/1  
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+HWI-EAS443:3:45:1604:387#0/1  
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+HWI-EAS443:3:45:1668:1180#0/1  
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a\_abb`^RU\_^`^\_\_^]`X¥b```\_Z\_Laa^\_SWaaa`\_[  
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+HWI-EAS443:3:45:1689:1403#0/1  
aa`\_aaaaba`\_``\_\_`aaa\_^`^\_]``]`\_`X`^^^`\_\_  
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+HWI-EAS443:3:45:1693:1484#0/1  
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+HWI-EAS443:3:45:1732:877#0/1  
a`abaa`babaa`aa^a\_a\_a\_a]^a````¥^a\_^^\_X]Z  
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+HWI-EAS443:3:45:187:195#0/1  
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+HWI-EAS443:3:45:215:213#0/1  
a`abW`^baaa`aaa^b`a```\_¥a`\_`\_`\_¥U]]^U`UR  
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+HWI-EAS443:3:45:286:1343#0/1  
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+HWI-EAS443:3:45:348:74#0/1  
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+HWI-EAS443:3:45:418:1719#0/1  
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+HWI-EAS443:3:45:449:942#0/1  
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+HWI-EAS443:3:45:474:988#0/1  
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+HWI-EAS443:3:45:491:1970#0/1  
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+HWI-EAS443:3:45:558:420#0/1  
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+HWI-EAS443:3:45:608:1204#0/1  
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abb`aa¥¥ab`bbba]`aaaa\_aa`\_`a`aaa`\_\_`\_a^  
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+HWI-EAS443:3:45:700:1562#0/1  
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+HWI-EAS443:3:45:736:810#0/1  
aa^aaabbb^`aa`a`aa`R^\_\_aa\_\_[^X^\_[YW^^\_V  
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+HWI-EAS443:3:45:740:1044#0/1  
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GAACTTATATGAAAAGGTAAGAAGCCAGTTAAAAACAAT  
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GGGGACATCAAGATACAGCAAGAAGTTCAAGCCGGAAATA  
+HWI-EAS443:3:45:752:712#0/1  
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+HWI-EAS443:3:45:754:1021#0/1  
S^aab`a[^`\_bbba\_```bbbbbbabbbaabbbab`]]  
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GAAATGCTGGATCTGGTATTATCATTTCAGATACACCAGT  
+HWI-EAS443:3:45:756:879#0/1  
Q\_^\_YKY``¥¥\_b^`baaabb\_a`abbbb`\_bb¥b^bbaa  
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T^bba\_Q\_[[`b\_\_ba^^YP]Ya¥]W¥b[^`[^]XNNN¥[  
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+HWI-EAS443:3:45:794:912#0/1  
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+HWI-EAS443:3:45:801:1748#0/1  
a`Wabbaa`ba¥[Yabaa]a^aba`¥^aaaaaaaa\_a`\_[a  
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+HWI-EAS443:3:45:859:1214#0/1  
aaaaa]aaaaaaaaa^`aa`a^^`^`\_\_a`¥a\_a`````\_`  
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+HWI-EAS443:3:45:863:874#0/1  
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aa`aaaa`a`a`a`\_aa¥a^]]`a[a\_]`\_\_`^`\_\_`\_`  
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+HWI-EAS443:3:45:945:1655#0/1  
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+HWI-EAS443:3:45:948:734#0/1  
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+HWI-EAS443:3:46:1106:1156#0/1  
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+HWI-EAS443:3:46:121:1177#0/1  
`Za\_`aa`a¥\_`W[¥`W]]`Z^[]`^WZ\_\_R]¥]WUW[Z\_  
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ATCTCGTCAATGGCATTCTGTGTGCTCTTCAGGTCGGCTG  
+HWI-EAS443:3:46:1256:950#0/1  
]\_\_\_^S`^OZY^[]RTU`\_ZT[ZW\_\_¥ZZ\_ZVTPPa]^X^\_  
@HWI-EAS443:3:46:1272:116#0/1  
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+HWI-EAS443:3:46:1272:116#0/1  
a`¥UZ\_\_L]H]QP]^XQ¥X`]UV]¥MXWS¥\_XXXTZ]SPS  
@HWI-EAS443:3:46:1286:1188#0/1  
GCTGGCTGGATCCTGGGAAATCCAGAGTGTGAATCACTCT  
+HWI-EAS443:3:46:1286:1188#0/1  
aa`a^aa`^\_¥a`¥¥ZU^U`V[X[[V\_T¥UZWWW¥¥¥¥¥¥  
@HWI-EAS443:3:46:1293:874#0/1  
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+HWI-EAS443:3:46:1293:874#0/1  
T\_`\_\_bbabbbbabbb`bbabbb[aabbb\_abb`abbbb  
@HWI-EAS443:3:46:1305:381#0/1  
GGACTTATGACTACCCAAAATACTCAGAGGAAGCAAAATT  
+HWI-EAS443:3:46:1305:381#0/1  
a¥`]aa`a\_\_`[RZ]\_\_^\_^\_Wa¥\_a^`a]]`U]]^^]Z  
@HWI-EAS443:3:46:1321:942#0/1  
ATTCTGTGTGCTCTTCAGGTCGGCTGCATATCCTGACCCC  
+HWI-EAS443:3:46:1321:942#0/1  
`ab`b`]ab\_^b``][a\_¥R`\_¥a`b[^Ua^Q\_`^YV^¥  
@HWI-EAS443:3:46:1359:1293#0/1  
CTGATTGCCCCAGGGAGACTACCAGTACCAATGAACTGG  
+HWI-EAS443:3:46:1359:1293#0/1  
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GGAAAGAAGTCCTCGTGCTATGGGGCATTACCATCCATC  
+HWI-EAS443:3:46:1360:1879#0/1  
\_]NVaaV]a\_[¥`a`]¥[RbaXWb``aQG¥¥aY`R]V\_aW

@HWI-EAS443:3:46:1381:1061#0/1  
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+HWI-EAS443:3:46:1381:1061#0/1  
aa`\_aaaaa\_\_`a]a\_\_\_a\_a`aRa`\_`^[\_V\_\_\_\_]  
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GGGACATCAAGATACAGCAAGAAGTTCAAGCCGAAATAG  
+HWI-EAS443:3:46:1384:960#0/1  
VXWZKa`V`W[^aT`¥¥`ba^[^T`¥UNZ`Z`aZRRX`^  
@HWI-EAS443:3:46:1408:1218#0/1  
ATGACACTGAGCTCAATTGCTCTCTTAGCTCCTCATAATC  
+HWI-EAS443:3:46:1408:1218#0/1  
aaaaaaaaaa`aa\_aaa`a`\_a^aa`\_\_`\_\_a\_\_`\_\_\_\_^  
@HWI-EAS443:3:46:1409:1100#0/1  
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+HWI-EAS443:3:46:1409:1100#0/1  
ababWY^abaaa`a` `[a]ba^`b^a`a` ` \_]` ` `[^  
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+HWI-EAS443:3:46:1441:106#0/1  
a]aaaa`a`a`\_a\_\_\_^\_aZaaa\_Z`Y]¥\_\_\_VU^^Y^Y  
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+HWI-EAS443:3:46:1467:984#0/1  
aaaaaaaaabaa\_\_\_^`Xa`\_a`\_aa`\_`¥¥`\_Z`\_a^\_Z  
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+HWI-EAS443:3:46:1486:859#0/1  
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@HWI-EAS443:3:46:1537:1875#0/1  
TCTCTGTTTAAATTTTGCTTCCTCTGAGTATTTGGGTAGT  
+HWI-EAS443:3:46:1537:1875#0/1  
abbbba`abbabaa`a`b`\_\_b`a`aa^aa`a` ` `^a`^  
@HWI-EAS443:3:46:1558:423#0/1  
CTGGCTGGATCCTGGGAAATCCAGAGTGTGAATCACTCTC  
+HWI-EAS443:3:46:1558:423#0/1  
ab`bbab`\_bb`\_abb]\_^aaaab`\_Y\_\_a` ` `^`\_aXa`  
@HWI-EAS443:3:46:1572:472#0/1  
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+HWI-EAS443:3:46:1572:472#0/1  
aabbbb^`bbaabab`baaababa`b\_aaa`\_a`a\_aaa\_  
@HWI-EAS443:3:46:1579:1562#0/1  
TTTTGCTTCCTCTGAGTATTTGGGTAGTCATAAGTCCCA  
+HWI-EAS443:3:46:1579:1562#0/1  
aa`R]¥`a\_\_a\_aa`\_Wa`[[[]^Z]aZ^U\_^[RR¥]]]  
@HWI-EAS443:3:46:1590:120#0/1  
GCTGGTGTATATAGCACCTTGGGTGTCTGACAAGTTGTA  
+HWI-EAS443:3:46:1590:120#0/1  
a\_a^aV`[[` `P]\_VV¥V^]\_`^0]WUZ]YWSQVWVWV  
@HWI-EAS443:3:46:1604:1584#0/1  
GCTGGCTGGATCCTGGGAAATCCAGAGTGTGAATCACTCT

+HWI-EAS443:3:46:1604:1584#0/1  
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CCGGCTTGAACCTTCTGCTGTATCTTGATGTCCCCACAAA  
+HWI-EAS443:3:46:1659:578#0/1  
YX^\_T]\_RXY^VYJ[^Z¥aWWY[SZ¥T^]WZOZIJUY\_  
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ACAGAATTTACTTTGTTAGTAATCTCGTCAATGGCATTCT  
+HWI-EAS443:3:46:1686:1258#0/1  
a`aa\_a\_baa^¥Yaa`abV\_^]\_Za^^^UU\_X`^¥]Z^  
@HWI-EAS443:3:46:1691:1629#0/1  
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+HWI-EAS443:3:46:1691:1629#0/1  
V]^`a^Xaa^ab\_[\_\_`a\_Z^bbbbba\_abbbbb`\_```\_  
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+HWI-EAS443:3:46:1754:146#0/1  
\_\_a¥XYZU^`[WSY]^aaa]XXWS[]X[V¥WZYZ[YYQSS  
@HWI-EAS443:3:46:1778:341#0/1  
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+HWI-EAS443:3:46:1778:341#0/1  
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+HWI-EAS443:3:46:1780:1837#0/1  
Za¥\_¥b`abb]XT\_a``[aZG¥OYWbR`XQMaX^]a`[\_  
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AGCTCCTCATAATCGATGAAATCTCCTGGGTAACACGTTC  
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a`aa`aa`aY``\_aaaa`aa\_a\_\_a`a`Ua\_]`Xa\_a^  
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+HWI-EAS443:3:46:237:675#0/1  
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@HWI-EAS443:3:46:32:1329#0/1  
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+HWI-EAS443:3:46:32:1329#0/1  
Y\_bU\_\_aab``[[ORabbbb]bbbbaa^J^a\_Z¥a¥]XJ\_  
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+HWI-EAS443:3:46:381:630#0/1  
`babbabbbbbb`babbbbaaaaaaa]aaaaaa`aaaa  
@HWI-EAS443:3:46:395:1663#0/1  
GCTGGCTGGATCCTGGGAAATCCAGAGTGTGAATCACTCT  
+HWI-EAS443:3:46:395:1663#0/1  
^^aK[^`b\_^^`¥S]a^a[^ba`\_[Ra\_S`aQZa`a\_

@HWI-EAS443:3:46:406:1933#0/1  
GAGATTTTCATCGATTATGAGGAGCTAAGAGAGCAATTGAG  
+HWI-EAS443:3:46:406:1933#0/1  
\_a^\_aa\_Vbb\_^¥`Yaa`\_a]\_]\_\_a`S`W^¥^`a]ZW`\_  
@HWI-EAS443:3:46:436:1504#0/1  
TGGCCAGTCTCAATTTTGTGCTTTTTACATATTTTGGACA  
+HWI-EAS443:3:46:436:1504#0/1  
abbaaabZ^aa`\_a`aa\_]\_\_aba``]\_`a`abaa``X\_  
@HWI-EAS443:3:46:449:1986#0/1  
AGTCCTCGTGTATGGGGCATTACCATCCATCTACTAGT  
+HWI-EAS443:3:46:449:1986#0/1  
a]]`^^aa`Z[]aZY¥]]¥\_`[]a\_]a`^^`\_¥`aY\_\_WW  
@HWI-EAS443:3:46:463:248#0/1  
CTTCCTCTGAGTATTTTGGGTAGTCATAAGTCCCATTTTT  
+HWI-EAS443:3:46:463:248#0/1  
abbbabbb`bba¥bababba^abaaaabb\_[aaaabbaaa  
@HWI-EAS443:3:46:505:590#0/1  
GCTTCCTCTGAGTATTTTGGGTAGTCATAAGTCCCATTTT  
+HWI-EAS443:3:46:505:590#0/1  
aaaaa`a```^aY\_a`a`aaaU`aYTY\_^``UXZ\_^\_\_`]  
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AGATGCATATGTTTTGTGGGGACATCAAGATACAGCAAG  
+HWI-EAS443:3:46:509:2039#0/1  
]Z]T]ab`aa`^^`a]Z\_\_\_`Z¥\_\_`^`a[`a^aa^a¥X  
@HWI-EAS443:3:46:553:730#0/1  
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+HWI-EAS443:3:46:553:730#0/1  
aabbabbaabbaaabaabaa^aUX]aaa^aa\_\_U^¥¥^\_^  
@HWI-EAS443:3:46:560:321#0/1  
ATCCCCAAGACAAGTTCATGGCCCAATCATGACTCGAAC  
+HWI-EAS443:3:46:560:321#0/1  
\_\_b¥Z\_\_bbbaab`bYb^^a`b\_\_a\_]\_`aVba[aaa^[S  
@HWI-EAS443:3:46:574:273#0/1  
GTTATTTTGTCTCCCGCTCTACTAGTGTCCAGTAATAGT  
+HWI-EAS443:3:46:574:273#0/1  
aa\_aba`a````aa`a\_\_¥\_\_¥Z^X]Y]QUUUUVVZ^[YSS  
@HWI-EAS443:3:46:632:1846#0/1  
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+HWI-EAS443:3:46:632:1846#0/1  
a`\_\_[UZURa^M^VSVWQ[^[V¥¥¥SQYSW¥¥SVVWNWWW  
@HWI-EAS443:3:46:660:684#0/1  
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+HWI-EAS443:3:46:660:684#0/1  
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@HWI-EAS443:3:46:683:966#0/1  
GCCGGTTTCATTGAAGGGGGTGGACAGGGATGGTAGATG  
+HWI-EAS443:3:46:683:966#0/1  
aabb`Paa^YS^`X`]W]`WUa¥^`[]]\_\_^¥WR¥a^Y[  
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+HWI-EAS443:3:46:684:1156#0/1  
a`b\_aaaa\_^\_\_a`a\_X¥[a^YaZXU`^\_W`U`a¥¥¥¥W  
@HWI-EAS443:3:46:709:1138#0/1  
TGGGGACATCAAGATACAGCAAGAAGTTCAAGCCGGAAAT  
+HWI-EAS443:3:46:709:1138#0/1  
VRX\_aa`\_a`Z``V\_^a`Zaba]¥`]MY\_a`\_\_a`\_a\_¥  
@HWI-EAS443:3:46:70:512#0/1  
AGATTTCCAGTTGCTTCAATGTTATTTTGTCTCCCGGCT  
+HWI-EAS443:3:46:70:512#0/1  
aaaaab``¥^`a`aaa`b``aa`a]aaaa\_\_^`\_^]\_Y¥Z  
@HWI-EAS443:3:46:722:1749#0/1  
TTTTTGTGGGACATCAAGATACAGCAAGAAGTTCAAGCC  
+HWI-EAS443:3:46:722:1749#0/1  
X]]T^Xa]¥U`^`\_][TY¥``a`][N[^b`UNF¥GX`WL  
@HWI-EAS443:3:46:763:981#0/1  
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+HWI-EAS443:3:46:763:981#0/1  
aaaabb[baabaa]`aa\_a^aaa`aW`Z^`]¥Y^\_a^`\_Z  
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GGGACATCAAGATACAGCAAGAAGTTCAAGCCGGAAATAG  
+HWI-EAS443:3:46:784:349#0/1  
]bbaa`^`^aaa`a]`a\_aaa]WaU\_\_a`\_\_Z`aZZ\_\_a  
@HWI-EAS443:3:46:786:124#0/1  
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+HWI-EAS443:3:46:786:124#0/1  
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@HWI-EAS443:3:46:849:1046#0/1  
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+HWI-EAS443:3:46:849:1046#0/1  
`a\_aab\_`baabaaaa\_abaaaWba\_b`\_^`Z`a`\_ZYY`  
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+HWI-EAS443:3:46:879:41#0/1  
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@HWI-EAS443:3:46:904:235#0/1  
GCTGGCTGGATCCTGGGAAATCCAGAGTGTGAATCACTCT  
+HWI-EAS443:3:46:904:235#0/1  
aXaX¥\_X`\_UY¥U[^a`¥^[VQ[¥\_W¥FZS`¥^U¥¥WSQW  
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+HWI-EAS443:3:46:990:1093#0/1  
\_`a`^`aa`bbb]]\_b```abbabaabaabaab`aaaa\_  
@HWI-EAS443:3:46:995:710#0/1  
ATCGATTATGAGGAGCTAAGAGAGCAATTGAGCTCAGTGT  
+HWI-EAS443:3:46:995:710#0/1  
abbbabbYab\_aaU^^aaa`^baa`aYaaaY``\_`\_a^Za]  
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GGGGACATCAAGATACAGCAAGAAGTTCAAGCCGGAAATA  
+HWI-EAS443:3:46:996:1378#0/1  
^abbabbbbbb`baabb`bbba\_b\_aaabb]aba`aaaa

@HWI-EAS443:3:47:1007:1114#0/1  
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+HWI-EAS443:3:47:1007:1114#0/1  
^`bbaabXaXabaababab`aaa`ab`bbWa\_a[b`a\_``  
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+HWI-EAS443:3:47:1009:1870#0/1  
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+HWI-EAS443:3:47:1069:1943#0/1  
aabbbba]`[Iba]\_Zaaa¥`^Y]Qa]L]^`WaZ`R`]\_Y  
@HWI-EAS443:3:47:1084:570#0/1  
GACCCCTGCTCATTTTTGATGGTGATAACCGTACCATCCAT  
+HWI-EAS443:3:47:1084:570#0/1  
\_b`Z\_ababbaababa`a\_baZa`aaUPa^^`R\_`[X`^  
@HWI-EAS443:3:47:1085:1836#0/1  
AGGTGCGCTGCATATCCTGACCCCTGCTCATTTTTGATGGT  
+HWI-EAS443:3:47:1085:1836#0/1  
¥\_^T][^\_`]^Z^`WEU¥T¥^Z¥T]VV]G]¥UXKU\_Q\_^G  
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+HWI-EAS443:3:47:108:241#0/1  
aa`]abaabaa`a\_\_\_Zaa`\_¥ZY\_YUSZ^Y\_^`[U\_^¥\_  
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CTTCTTGCTGTATCTTGATGTCCCCACAAAACATATGCA  
+HWI-EAS443:3:47:1101:292#0/1  
ababbbbabbb`ababbbbaaa\_aa`a`aaaaaa```a]`  
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GATGGTTTCCTGGACATTTGGACTTACAATGCCGAACTGT  
+HWI-EAS443:3:47:1134:1146#0/1  
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@HWI-EAS443:3:47:1166:1422#0/1  
CACAAATGCGATAACACGTGCATGGAAAGTGTCAAAAATG  
+HWI-EAS443:3:47:1166:1422#0/1  
]a¥^Wa``a`¥X\_bba^`Z^X\_^[S^a`¥]\_\_aa\_X\_ZZa  
@HWI-EAS443:3:47:1177:1116#0/1  
CGTCAATGGCATTCTGTGTGCTCTTCAGGTGCGCTGCATA  
+HWI-EAS443:3:47:1177:1116#0/1  
`bab\_[\_bbbbbaabab¥bababaabba``baaab^aab  
@HWI-EAS443:3:47:1212:131#0/1  
AGCATGAGGACATGCTGCCGTTACACCTTTGTTGAGTCA  
+HWI-EAS443:3:47:1212:131#0/1  
abaaaaa`a\_\_aa[]\_`¥[``^`¥GXUZ]\_\_YW\_T^W`UPU  
@HWI-EAS443:3:47:1215:862#0/1  
GTTACCCAGGAGATTTTCATCGATTATGAGGAGCTAAGAGA  
+HWI-EAS443:3:47:1215:862#0/1  
aa`Z`a\_aaa\_\_\_\_a`\_\_`¥a]`\_^\_\_Z`\_]^X¥\_^`]^Z  
@HWI-EAS443:3:47:1247:1403#0/1  
GAAAGAACTTTGGACTACCACGATTCAAATGTGAAGAACT

+HWI-EAS443:3:47:1247:1403#0/1  
aaaaa`a\_aaaaa`a`aa]a^a^`\_`\_^^a\_Pa^`\_]¥Y`  
@HWI-EAS443:3:47:1272:1337#0/1  
GGGGACATCAAGATACAGCAAGAAGTTCAAGCCGGAAATA  
+HWI-EAS443:3:47:1272:1337#0/1  
a]^Y¥aaaaaa\_a[`¥]]Z\_`a\_¥]T^^`X^R[¥\_]¥¥^]  
@HWI-EAS443:3:47:1302:232#0/1  
TGCGAACAAATTCAACAGACACTGTAGACACAGTACTAGAA  
+HWI-EAS443:3:47:1302:232#0/1  
abaabaaaabba` ``a`a¥`¥aa]\_a^^^U]` [TSRPSMU  
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+HWI-EAS443:3:47:1311:149#0/1  
aba`XZ]baa`^¥[`a¥XW]^]¥Y[[\_^][S[ZU¥YRXWS  
@HWI-EAS443:3:47:1312:865#0/1  
TCAAGATACAGCAAGAAGTTCAAGCCGGAAATAGCAATAA  
+HWI-EAS443:3:47:1312:865#0/1  
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GCTAGTTAAAAAAGGAAATTCATACCCAAAGCTCAGCAAA  
+HWI-EAS443:3:47:1315:198#0/1  
a`aaa]b`aa` `a\_a^`\_`a]a\_\_]\_X^X\_T\_U[^]^\_]  
@HWI-EAS443:3:47:1330:1872#0/1  
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+HWI-EAS443:3:47:1330:1872#0/1  
aa]XX`TaWQN\_\_U¥` [ `a]`XT[[]\_\_^\_ZQ\_^U^a^Y^  
@HWI-EAS443:3:47:1349:1614#0/1  
GATCCTGGGAAATCCAGAGTGTGAATCACTCTCCACAGCA  
+HWI-EAS443:3:47:1349:1614#0/1  
\_b\_]b`¥Y\_\_bbaaa`^^b`\_Zb^` `a^b`aaa\_a\_]Z\_  
@HWI-EAS443:3:47:1391:1202#0/1  
ATTTACTTTGTTAGTAATCTCGTCAATGGCATTCTGTGTG  
+HWI-EAS443:3:47:1391:1202#0/1  
abaaa`aaaa`\_a^\_a\_a\_`\_aZ¥\_\_^^¥^^a^^a]]\_Z^  
@HWI-EAS443:3:47:1396:266#0/1  
AGAAACTGATTGCCCCAGGGAGACTACCAGTACCAATGA  
+HWI-EAS443:3:47:1396:266#0/1  
abbaaabababaaa` \_\_\_aaaa\_aaZ`\_¥\_\_\_V`¥W\_\_\_\_\_  
@HWI-EAS443:3:47:1406:1791#0/1  
GAGCAATTGAGCTCAGTGTCATCATTGAAAGTTTGAGA  
+HWI-EAS443:3:47:1406:1791#0/1  
aaa^aa` `aa` [\_¥aaY`^\_\_\_\_]^\_^^]ZZQ[[]WYV]^\_]  
@HWI-EAS443:3:47:142:1249#0/1  
GATTCACACTCTGGATTTCCCAGGATCCAGCCAGCAATGT  
+HWI-EAS443:3:47:142:1249#0/1  
a[Ta]b\_VSGU]a]] [a^V]YWa`]QLT[\_YNYWL]QO^G  
@HWI-EAS443:3:47:1468:291#0/1  
TGGCATTCTGTGTGCTCTTCAGGTCGGCTGCATATCCTGA  
+HWI-EAS443:3:47:1468:291#0/1  
abbbbbbbbababbbbaabab`a¥aa]\_a`V` `a`^` `\_\_



@HWI-EAS443:3:47:1540:153#0/1  
GGGTGGACAGGGATGGTAGATGGATGGTACGGTTATCACC  
+HWI-EAS443:3:47:1540:153#0/1  
^^\_N]aT^V]U[LSXWIP¥WT^^UU^OKTQUUSWTPNRMJ  
@HWI-EAS443:3:47:1586:1152#0/1  
GCCATGAACCTTGCTTGGGGAATATCTCAAACCTTTCAAA  
+HWI-EAS443:3:47:1586:1152#0/1  
aba`a`a`aab^a`¥aa¥[\_`^`a^]`\_]\_a``^\_^^  
@HWI-EAS443:3:47:1634:1963#0/1  
TAGTAATCTCGTCAATGGCATTCTGTGTGCTCTTCAGGTC  
+HWI-EAS443:3:47:1634:1963#0/1  
aa^Xaba\_b\_b\_Y\_`a]V[``X`a¥a]`]XD¥\_Y¥Z¥S¥  
@HWI-EAS443:3:47:1680:1086#0/1  
GAAGGGGGGTGGACAGGGATGGTAGATGGATGGTACGGTT  
+HWI-EAS443:3:47:1680:1086#0/1  
a^`a`a`a`[aa^[``^`aZ\_a\_V\_`\_\_\_\_[Z^]R¥U^[W[  
@HWI-EAS443:3:47:1705:1837#0/1  
GAAAGAAGTCCTCGTGCTATGGGGCATTACCATCCATCT  
+HWI-EAS443:3:47:1705:1837#0/1  
`\_\_`aab`^aXZ\_[M¥]^[\_ULY`Z¥\_VY`¥¥SWVU]  
@HWI-EAS443:3:47:1737:626#0/1  
TGACCAACAAAGTCTCTATCAGAATGCAGATGCATATGTT  
+HWI-EAS443:3:47:1737:626#0/1  
aaa\_ab\_aabab^aaaa\_a\_a`a`aa`aa`a`\_a\_\_a`^\_  
@HWI-EAS443:3:47:1741:1842#0/1  
CAGGGATGGTAGATGGATGGTACGGTTATCACCATCAAAA  
+HWI-EAS443:3:47:1741:1842#0/1  
aa\_aZ]a^b]aa\_Z^]]\_X\_T\_ZXLOLYNTY[RVQTX[¥U  
@HWI-EAS443:3:47:1742:997#0/1  
CAGCACTAGTAGATGGATGGTGAATGCCCCATAGCACGAG  
+HWI-EAS443:3:47:1742:997#0/1  
abaabab`baabaabb`aba^bbaab¥\_]V`\_aa[\_[\_`  
@HWI-EAS443:3:47:1780:177#0/1  
CAGAACTGATTGCCCCAGGGAGACTACCAGTACCAATG  
+HWI-EAS443:3:47:1780:177#0/1  
]bbbababbbbaa\_\_\_\_baa`a\_Z`^¥]\_a¥]¥¥`\_\_\_\_  
@HWI-EAS443:3:47:201:697#0/1  
AGCTTTTTGCTCCAGCATGAGGACATGCTGCCGTTACACC  
+HWI-EAS443:3:47:201:697#0/1  
a\_aaba`^Ma`\_`aZ^aa`a\_ZTa\_Y¥`\_WY¥[\_¥W¥UW  
@HWI-EAS443:3:47:233:1303#0/1  
CACAGTTCACAGCAGTAGGTAAAGAGTTCAACCACCTGGA  
+HWI-EAS443:3:47:233:1303#0/1  
abaabbbabbbbaababba]aabbab`aaa`\_aa^aba`  
@HWI-EAS443:3:47:239:1054#0/1  
CGTTATGCTTGTCTTCTAGAAGGTTAACAGAGTGTGTTAC  
+HWI-EAS443:3:47:239:1054#0/1  
aaba`bbbabaaabb`bbbb`baabbab\_ababababaa  
@HWI-EAS443:3:47:253:222#0/1  
GGGACATCAAGATACAGCAAGAAGTTCAAGCCGAAATAG

+HWI-EAS443:3:47:253:222#0/1  
a`a`baaabbaa\_abba\_bba\_a]`aaaaXaa]\_\_a^T  
@HWI-EAS443:3:47:258:104#0/1  
GTCTTATTGCTATTTCCGGCTTGAACCTTGCTGTATCT  
+HWI-EAS443:3:47:258:104#0/1  
a`a^baSaaYaaaab^`b\_a`YXVP[^Q`^J^aY]\_[U`  
@HWI-EAS443:3:47:26:1561#0/1  
AGGGAGACTACCAGTACCAATGAACTGGCGACAGTTGAAT  
+HWI-EAS443:3:47:26:1561#0/1  
`[aa`\_aaba^[``^[\_```\_¥a`^^^\_0`YG[]SUMP`V  
@HWI-EAS443:3:47:295:856#0/1  
AGAAGTTCAAGCCGAAATAGCAATAAGACCCAAAGTGAG  
+HWI-EAS443:3:47:295:856#0/1  
a\_]`]^\_a``¥]\_]TU]^]\_Z^^^YY]YTYT]XV  
@HWI-EAS443:3:47:298:839#0/1  
CTTGTTGATTCCAGCTTTACCCCATCTATTTCTTCTCTGT  
+HWI-EAS443:3:47:298:839#0/1  
ab^`^b]\_ba\_aa`aba\_¥]^a\_a\_aV`aa`aa¥a`a^  
@HWI-EAS443:3:47:348:755#0/1  
AAAAAAGTTGATGATGGTTTCCTGGACATTTGGACTTACA  
+HWI-EAS443:3:47:348:755#0/1  
aaaa`b]abaab\_a`a\_a`\_¥a`a`\_\_a`aaa`Z`\_]`  
@HWI-EAS443:3:47:354:711#0/1  
AATCGATGAAATCTCCTGGGTAACACGTTCCATTGTCTGA  
+HWI-EAS443:3:47:354:711#0/1  
aa\_aaaaaaaaa`^\_\_^`a``Wa`]`]a]]`W[\_]\_Z]\_`^X  
@HWI-EAS443:3:47:357:1095#0/1  
GACAGGGATGGTAGATGGATGGTACGGTTATCACCATCAA  
+HWI-EAS443:3:47:357:1095#0/1  
aaaa`aa`aaaU[\_\_[aa¥`\_[V`U``T\_\_^T\_UUWURU¥  
@HWI-EAS443:3:47:402:968#0/1  
GAGGAGCTAAGAGAGCAATTGAGCTCAGTGTCATCATTG  
+HWI-EAS443:3:47:402:968#0/1  
a`^`UbaaaaaVa[`aaaa[^\_¥\_a`a[YaTTa`¥\_a^\_a  
@HWI-EAS443:3:47:438:265#0/1  
GAATTTACTTTGTTAGTAATCTCGTCAATGGCATTCTGTG  
+HWI-EAS443:3:47:438:265#0/1  
aaabbba^babb\_aaa^aaa]a`a^]\_\_^\_]`a\_¥\_¥]  
@HWI-EAS443:3:47:480:1146#0/1  
CTGGTGTATATAGCACCCCTTGGGTGTCTGACAAGTTGTAT  
+HWI-EAS443:3:47:480:1146#0/1  
aaba`bbab\_bbaaaaa]bbaba¥b\_¥aaa``]aaaa\_aa  
@HWI-EAS443:3:47:495:1793#0/1  
TGGCTTCTTACCTTTTCATATAAGTTCTTCACATTTGAAT  
+HWI-EAS443:3:47:495:1793#0/1  
a][Z]¥Q¥a`Y^SaYZV[]UX¥YOFZ]`ZGUVZZ[Z\_X^Y  
@HWI-EAS443:3:47:588:1718#0/1  
GCCGTTACACCTTTGTTGAGTCATGATTGGGCCATGAAC  
+HWI-EAS443:3:47:588:1718#0/1  
^`abbab\_aabbbbabbabaa^Z\_bbaZb```]\_a[]aZL

@HWI-EAS443:3:47:617:667#0/1  
GAAGCCAGTTAAAAACAATGCCAAGGAAATTGGAAACGG  
+HWI-EAS443:3:47:617:667#0/1  
aa^baa\_bab`aa¥M^`aa`]`aa¥`aaaa`Y^aa`\_U  
@HWI-EAS443:3:47:618:945#0/1  
GCCTCCCATTTCAGAATATACATCCGATCACAATTGGAAA  
+HWI-EAS443:3:47:618:945#0/1  
``bab\_`bbbaa`aabaaa`a`[aa[W\_\_aa\_a\_\_[a`  
@HWI-EAS443:3:47:644:1174#0/1  
GGGGACATCAAGATACAGCAAGAAGTTCAAGCCGGAAATA  
+HWI-EAS443:3:47:644:1174#0/1  
Za`bbabaZa[¥TSSa\_`ab]N\_aYaabIabbW]`\_^  
@HWI-EAS443:3:47:672:315#0/1  
TGCCGGTTTCATTGAAGGGGGTGGACAGGGATGGTAGAT  
+HWI-EAS443:3:47:672:315#0/1  
ab`X`b\_baa`bab[`bbbabaUaa\_`a\_`¥\_aaQ``\_]  
@HWI-EAS443:3:47:676:813#0/1  
CTTCCTCTGAGTATTTTGGGTAGTCATAAGTCCCATTTTT  
+HWI-EAS443:3:47:676:813#0/1  
abb`bb]bbbaabba^`b``\_aaaa`¥GZ`a`aaaa  
@HWI-EAS443:3:47:690:1178#0/1  
ATCCTGACCCCTGCTCATTTTGGTGGATAACCGTACCA  
+HWI-EAS443:3:47:690:1178#0/1  
a`a`W]^`baaaaa¥a^`a\_`\_[`aW```]R¥SVU`RZ^  
@HWI-EAS443:3:47:70:1538#0/1  
CACTGAGCTCAATTGCTCTCTTAGCTCCTCATAATCGATG  
+HWI-EAS443:3:47:70:1538#0/1  
]aba`Z¥Xbbaa`Y``a`^a^a]N]`[aa¥a^a]`W]]Z`  
@HWI-EAS443:3:47:754:707#0/1  
AATGATGACTGAGCTCAATTGCTCTCTTAGCTCCTCAT  
+HWI-EAS443:3:47:754:707#0/1  
X`bbbbb^aa^`^b¥a`^a^a]a]a\_]VO[`[Ua¥QY  
@HWI-EAS443:3:47:781:315#0/1  
GGGAAATCCAGAGTGTGAATCACTCTCCACAGCAAGCTCA  
+HWI-EAS443:3:47:781:315#0/1  
ab`\_abbabaaab¥a\_abYa^a`\_[aUQ`¥a\_]`\_¥Z]W¥  
@HWI-EAS443:3:47:808:1576#0/1  
AAAACATATGCATCTGCATTCTGATAGAGACTTTGTTGGT  
+HWI-EAS443:3:47:808:1576#0/1  
``^X¥]W¥a`^]`bb`^`\_X\_aXa[ZV]QR[XZ[J¥V\_J  
@HWI-EAS443:3:47:80:1868#0/1  
CTTCTAGAAGACAAGCATAACGGGAACTATGCAAATAA  
+HWI-EAS443:3:47:80:1868#0/1  
`ababb\_b[aabaa^abbabababaababb````\_aa`aaa  
@HWI-EAS443:3:47:81:1767#0/1  
CTTGCTGTATCTTGATGTCCCCACAAAAACATATGCATCT  
+HWI-EAS443:3:47:81:1767#0/1  
`a^a`\_a[a\_Z]aZ\_^a\_¥aZUZ```[QTZLZL]V\_ZL]  
@HWI-EAS443:3:47:901:1976#0/1  
GGGACATCAAGATACAGCAAGAAGTTCAAGCCGGAAATAG

+HWI-EAS443:3:47:901:1976#0/1  
[a¥a[abZbbab\_a`\_baab]aab^aa]aba`ba^aaaa`  
@HWI-EAS443:3:47:910:711#0/1  
CTCTGAGTATTTTGGGTAGTCATAAGTCCCATTTTGGACA  
+HWI-EAS443:3:47:910:711#0/1  
aabbbbbbbbbbbba`aa`babaaa`aaX\_bbbbbbbbaa  
@HWI-EAS443:3:47:935:957#0/1  
GCTGGCTGGATCCTGGGAAATCCAGAGTGTGAATCACTCT  
+HWI-EAS443:3:47:935:957#0/1  
a`aaaaaa`Y^^\_¥\_`][`^^¥¥\_^¥SU^¥^¥\_¥U¥WWU^  
@HWI-EAS443:3:47:96:1288#0/1  
GACAAGTTGTATTGCAATCGTGGACTGGTGTATCTGAAAT  
+HWI-EAS443:3:47:96:1288#0/1  
¥abbbbabbbbbb\_abbaabbbabbaabbbbabbbbbb  
@HWI-EAS443:3:47:96:375#0/1  
GGGGACATCAAGATACAGCAAGAAGTTCAAGCCGGAAATA  
+HWI-EAS443:3:47:96:375#0/1  
ab]aabbaaaaa`aaba`bbba`a`aaba`^aaa\_\_`aa  
@HWI-EAS443:3:48:1042:824#0/1  
AGGAAATTGGAACGGCTGCTTTGAATTTTACCACAAATG  
+HWI-EAS443:3:48:1042:824#0/1  
a\_ba]bbba`aabbbbaa]MX\_\_PTWZaa\_GHSZFU]]PR  
@HWI-EAS443:3:48:1061:662#0/1  
GGGGACATCAAGATACAGCAAGAAGTTCAAGCCGGAAATA  
+HWI-EAS443:3:48:1061:662#0/1  
abab¥\_aa\_a]\_RaaSaa]aaa¥`bW\_^^\_aR]a`Z^^[^  
@HWI-EAS443:3:48:1074:1978#0/1  
ATTTCTTCTCTGTTTAATTTTGCTTCTCTGAGTATTTTG  
+HWI-EAS443:3:48:1074:1978#0/1  
abba]a`SYab`]`\_`babbaa^bb```]abb`b\_bbaaa^  
@HWI-EAS443:3:48:1077:572#0/1  
TGTGGGGACATCAAGATACAGCAAGAAGTTCAAGCCGGAA  
+HWI-EAS443:3:48:1077:572#0/1  
abaaaba\_\_aaa`aaaa\_aaZaaa`\_a]`Za\_a]Xa\_]`^  
@HWI-EAS443:3:48:1081:1817#0/1  
TGCCGGTTTCATTGAAGGGGGTGGACAGGGATGGTAGAT  
+HWI-EAS443:3:48:1081:1817#0/1  
ab^\_aa^a`aabaa\_abaa^a\_U```aa``^¥\_]TNW`]¥  
@HWI-EAS443:3:48:10:761#0/1  
GCCGGTTTCATTGAAGGGGGTGGACAGGGATGGTAGATG  
+HWI-EAS443:3:48:10:761#0/1  
aaaba\_aa\_\_baa``aa\_¥]\_Va`\_^\_aaa¥`\_XW^¥^V\_  
@HWI-EAS443:3:48:1305:1513#0/1  
CCAGTCCACGATTGCAATACAACCTTGTGACACCCCAAGG  
+HWI-EAS443:3:48:1305:1513#0/1  
aa`\_`a`ba`b`ab`bbbabbaaaa``aa`\_ba`Za`\_\_  
@HWI-EAS443:3:48:1310:1083#0/1  
GGACATCAAGATACAGCAAGAAGTTCAAGCCGGAAATAGC  
+HWI-EAS443:3:48:1310:1083#0/1  
aaaZ[ `[T]^R[ `aa\_a`a]^`UZ[a\_`^]][^]ZVW[Q

@HWI-EAS443:3:48:1318:1486#0/1  
TCGAATGTTATTTGTCTCCCGGCTCTACTAGTGCCAGT  
+HWI-EAS443:3:48:1318:1486#0/1  
a`\_\_ab`a]aaaaa`a`[^\_¥\_\_[[W\_Z[U¥R¥UW^Y  
@HWI-EAS443:3:48:1354:27#0/1  
TTTTGCTTCTGAGTATTTGGGTAGTCATAAGTCCCA  
+HWI-EAS443:3:48:1354:27#0/1  
¥¥¥¥^Wa[SU^a^]Zb¥Z`Z¥aaa\_R\_aLSYX]^¥RPYO[  
@HWI-EAS443:3:48:1359:1335#0/1  
GGGACATCAAGATACAGCAAGAAGTTCAAGCCGAAATAG  
+HWI-EAS443:3:48:1359:1335#0/1  
^¥`Z]a\_R^`\_\_YQZ\_T]ZU`RX`aX][aVN\_^RUV\_^\_  
@HWI-EAS443:3:48:1371:318#0/1  
GGCATTACCATCCATCTACTAGTGCTGACCAACAAAGTC  
+HWI-EAS443:3:48:1371:318#0/1  
aaaaa`a`aa\_¥a`\_`a]`\_a^a]\_a^\_\_\_\_X]\_Z\_Z]  
@HWI-EAS443:3:48:1433:203#0/1  
GCTTTTACATATTTGGACATTTCCAATTGTGATCGGA  
+HWI-EAS443:3:48:1433:203#0/1  
`KVQSaWPJXXXVV^\_[VWYNXMY]^VGT[^YR^RXUZ[Z  
@HWI-EAS443:3:48:144:827#0/1  
TGAACCTGTCTGGGAATATCTCAAACCTTCAAATGAT  
+HWI-EAS443:3:48:144:827#0/1  
]UY^`bba]a`aaa`]]^`]]`][a\_^\_Y\_a\_VT\_`aa[[  
@HWI-EAS443:3:48:1452:467#0/1  
CAGTTGCTTCGAATGTTATTTGTCTCCCGGCTCTACTAG  
+HWI-EAS443:3:48:1452:467#0/1  
aba]bbbba\_b]abb\_a`bbabb`aaaa`a]]`\_`Z^\_X[  
@HWI-EAS443:3:48:1567:1041#0/1  
AAAACAATGCCAAGGAAATTGGAAACGGCTGCTTTGAATT  
+HWI-EAS443:3:48:1567:1041#0/1  
abb]\_ba`\_`\_`aaba`aa`aba`aa`aa`aZFV]\_VYV¥Z  
@HWI-EAS443:3:48:1588:1687#0/1  
ACCATCCATCTACTAGTGCTGACCAACAAAGTCTCTATCA  
+HWI-EAS443:3:48:1588:1687#0/1  
a\_\_a\_]aa\_]\_a]a``¥a`\_Z`^X\_]`¥^^]X\_S\_\_\_\_^\_  
@HWI-EAS443:3:48:1616:894#0/1  
TATGCATCTGCATTCTGATAGAGACTTTGTTGGTCAGCAC  
+HWI-EAS443:3:48:1616:894#0/1  
W[[babba`V`aaWX`a]X\_]```a`aaa\_U\_VSQYQUO  
@HWI-EAS443:3:48:161:1218#0/1  
GATCCAGCCAGCAATGTTACATTTACCCAAATGCAATGGG  
+HWI-EAS443:3:48:161:1218#0/1  
aa^ZT¥`[]a]aaaab¥a^T]`a[a\_^`aaa]a^\_¥`\_Y  
@HWI-EAS443:3:48:1627:975#0/1  
GGGACATCAAGATACAGCAAGAAGTTCAAGCCGAAATAG  
+HWI-EAS443:3:48:1627:975#0/1  
a\_\_a¥¥¥`\_aa\_\_\_\_]`a`\_aaRV`YTR\_ZXUR^\_WURVZV  
@HWI-EAS443:3:48:1655:462#0/1  
TGTTTTTGTGGGACATCAAGATACAGCAAGAAGTTCAAG

+HWI-EAS443:3:48:1655:462#0/1  
aa[a`T`b]aaaa^`[¥QZ`\_\_\_\_\_`¥]`\_\_]aZXQ¥^]  
@HWI-EAS443:3:48:1670:1782#0/1  
GGAACGTGTTACCCAGGAGATTTTCATCGATTATGAGGAGC  
+HWI-EAS443:3:48:1670:1782#0/1  
`\_]\_[FORa^\_^Z^]aXZ\_¥R^ZWU]`X^Z^^¥^^Z^]WZZ  
@HWI-EAS443:3:48:1691:497#0/1  
CTTTGTTGGTCAGCACTAGTAGATGGATGGTGAATGCCCC  
+HWI-EAS443:3:48:1691:497#0/1  
`\_ba\_a\_a[a[Q¥\_bab]a`[^^^bbX\_\_aabZRY\_Z]¥T  
@HWI-EAS443:3:48:1737:445#0/1  
CTGGATCCTGGGAAATCCAGAGTGTGAATCACTCTCCACA  
+HWI-EAS443:3:48:1737:445#0/1  
abbaabaaabbbbaabbaabb^a\_aYba``^a^a\_a[\_aZ\_  
@HWI-EAS443:3:48:231:1271#0/1  
AAAATTCAAAGCAGCCGTTTCCAATTTCTTGGCATTGTT  
+HWI-EAS443:3:48:231:1271#0/1  
ab`aa`^`aaa`aaa`]^^QRS]\_] [S^ZZR¥P\_\_^VV  
@HWI-EAS443:3:48:236:880#0/1  
ATAAAGGGAAAGAAGTCCTCGTGCTATGGGGCATTACCA  
+HWI-EAS443:3:48:236:880#0/1  
aabbaba\_abbbbabaaba`aaa`a`a`]ba¥`bb\_\_a[a  
@HWI-EAS443:3:48:251:88#0/1  
GTTTATAGCACCTTGGGTGTCTGACAAGTTGTATTGCAA  
+HWI-EAS443:3:48:251:88#0/1  
a¥aa\_aa`a`a[WWaaa\_]`WY^\_T^WY]]^[Y^^^VPWZ  
@HWI-EAS443:3:48:252:1805#0/1  
GTTGGTTCTATTGGAAAATGAAAGAACTTTGGACTACCAC  
+HWI-EAS443:3:48:252:1805#0/1  
a¥ZU[VTX¥QZNSMUXJJ[ZNU¥`V^ZXRO¥\_]¥]\_YY¥T  
@HWI-EAS443:3:48:372:700#0/1  
GCTGGCTGGATCCTGGGAAATCCAGAGTGTGAATCACTCT  
+HWI-EAS443:3:48:372:700#0/1  
a^`aVPT`a¥U`\_MVR¥TX[SPYG]^TK¥H^QRRUVKQWR  
@HWI-EAS443:3:48:375:34#0/1  
GGAAATTGGAAACGGCTGCTTTGAATTTTACCACAAATGC  
+HWI-EAS443:3:48:375:34#0/1  
`\_]\_[VX^aaVSYY]]X¥\_RQ]XOLTP\_\_^BBBBBBBBBBBB  
@HWI-EAS443:3:48:389:908#0/1  
AAAACAATGCCAAGGAAATTGGAAACGGCTGCTTTGAATT  
+HWI-EAS443:3:48:389:908#0/1  
aaabaa\_aaaab`bbaaaaa`aa\_`^a\_\_a`LX^]GFU\_\_  
@HWI-EAS443:3:48:38:989#0/1  
GGCTGGATCCTGGGAAATCCAGAGTGTGAATCACTCTCCA  
+HWI-EAS443:3:48:38:989#0/1  
a\_`a^`aa`\_aS[^`^a\_aV`\_`WRLZP^\_ZU^\_WZUa¥VQ  
@HWI-EAS443:3:48:406:704#0/1  
GTCCTCGTGCTATGGGGCATTACCATCCATCTACTAGTG  
+HWI-EAS443:3:48:406:704#0/1  
a][\_`^`a\_a]a\_\_a\_\_\_a^a[R^QV\_^^S\_\_\_]\_X\_]\_U¥

@HWI-EAS443:3:48:408:235#0/1  
ATGAAATCTCCTGGGTAACACGTTCCATTGTCTGAACTAG  
+HWI-EAS443:3:48:408:235#0/1  
\_aa\_¥S¥aYXY^b`^ZYZ\_b\_]T`WZ[]a^[^]R^Q^T]  
@HWI-EAS443:3:48:426:314#0/1  
TCACCATCCATCTACTAGTGCTGACCAACAAAGTCTCTAT  
+HWI-EAS443:3:48:426:314#0/1  
a`a]W`baaabaaa\_a`a^Z]a\_`\_`Z`\_`]]\_¥a\_¥  
@HWI-EAS443:3:48:431:1089#0/1  
AAGCCAGTTAAAAACAATGCCAAGGAAATTGGAAACGGC  
+HWI-EAS443:3:48:431:1089#0/1  
\_`^RVY]baaVVS`aaaaba[\_`bab\_a`¥aa\_\_Y]aaW  
@HWI-EAS443:3:48:448:1076#0/1  
GGGGACATCAAGATACAGCAAGAAGTTCAAGCCGAAATA  
+HWI-EAS443:3:48:448:1076#0/1  
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+HWI-EAS443:3:48:467:1921#0/1  
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+HWI-EAS443:3:48:565:1611#0/1  
`ZZZa]]babZ]abaa`]X\_]\_aa\_¥\_T\_\_^ZNZ\_Y^  
@HWI-EAS443:3:48:579:592#0/1  
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+HWI-EAS443:3:48:579:592#0/1  
a]aaaaYa\_a`]S`\_`\_`a`^]`^`a\_`\_^PYY\_^[X  
@HWI-EAS443:3:48:591:526#0/1  
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+HWI-EAS443:3:48:591:526#0/1  
a\_`\_^X`a\_a`aXaa`a^b`YZ\_¥\_\_aa\_\_T^\_\_^\_]0  
@HWI-EAS443:3:48:592:171#0/1  
ACACCTTTGTTGAGTCATGATTGGGCCATGAACTTGTCT  
+HWI-EAS443:3:48:592:171#0/1  
a`aa\_babb`aaaa``abb\_aaa`\_\_¥``a\_^^`^a]]`  
@HWI-EAS443:3:48:658:1908#0/1  
CGATTGCAATACAACCTTGTGACACCCCAAGGGTGCTATA  
+HWI-EAS443:3:48:658:1908#0/1  
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@HWI-EAS443:3:48:716:1485#0/1  
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+HWI-EAS443:3:48:716:1485#0/1  
aba`a``ba\_`baabaabaaaa\_aaba]aaa^aaa\_^^a  
@HWI-EAS443:3:48:716:466#0/1  
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+HWI-EAS443:3:48:716:466#0/1  
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+HWI-EAS443:3:48:717:532#0/1  
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+HWI-EAS443:3:48:760:346#0/1  
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@HWI-EAS443:3:48:768:1954#0/1  
GAATTTACTTTGTTAGTAATCTCGTCAATGGCATTCTGTG  
+HWI-EAS443:3:48:768:1954#0/1  
aa¥a\_aaaaaa` `[a¥abaU\_UaZ\_a^^\_US``^R`]]S  
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ATCGATGAAATCTCCTGGGTAACACGTTCCATTGTCTGAA  
+HWI-EAS443:3:48:794:530#0/1  
\_SZaa`Y\_VLF^a\_^abYTX\_X¥^^T]WQWXNZNJ[WMM  
@HWI-EAS443:3:48:821:1452#0/1  
CCTCTGAGTATTTGGGTAGTCATAAGTCCCATTTTGGAC  
+HWI-EAS443:3:48:821:1452#0/1  
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+HWI-EAS443:3:48:849:1127#0/1  
a```\_[a\_`a``\_`^[\_]WZ^[Y\_UV^^]V]]`YX^V^  
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CGTCAATGGCATTCTGTGTGCTTTCAGGTCGGCTGCATA  
+HWI-EAS443:3:48:84:665#0/1  
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@HWI-EAS443:3:48:858:1458#0/1  
CATCTTTTCAATAACAGAATTTACTTTGTTAGTAATCTCG  
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+HWI-EAS443:3:48:88:148#0/1  
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a`b\_X`bY[^\_Zb^aX\_\_```baabab\_J][a`aa`a\_¥  
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+HWI-EAS443:3:48:981:1321#0/1  
a`aa\_aaa]a`aaaaaa`\_]^^^`\_`a`Z^^^`WY^\_  
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+HWI-EAS443:3:49:1007:1648#0/1  
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+HWI-EAS443:3:49:1018:1495#0/1  
`aab[a`X^a\_aaab]`aa\_\_ZZ¥^]`^`RaaYa\_a\_aS  
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+HWI-EAS443:3:49:1043:1529#0/1  
aba`abbaaaaaaabaab`aaaaabaaa[``ba`]a`a`a  
@HWI-EAS443:3:49:1092:421#0/1  
GTTTAATTTTGCTTCTCTGAGTATTTTGGGTAGTCATAA  
+HWI-EAS443:3:49:1092:421#0/1  
^\_X¥^Z\_b`Y\_W`¥T]LZ`\_`T[``WX`W\_U]a¥¥T`\_Y  
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GACAAGTTGTATTGCAATCGTGGACTGGTGTATCTGAAAT  
+HWI-EAS443:3:49:1156:378#0/1  
a`\_aab`bb`abaa\_baa`a`aa\_aaa`^b\_aa^aa\_\_]a  
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+HWI-EAS443:3:49:1163:230#0/1  
`\_X\_\_RU^\_TZ[Vaaaababb`\_`[R¥\_T\_b\_[aaNW\_] [  
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+HWI-EAS443:3:49:1250:1907#0/1  
aa^LZaaa^`a`a`a`\_`\_]¥W¥\_Z`^]\_`^YUU\_\_  
@HWI-EAS443:3:49:1352:272#0/1  
TTGCTCTCTTAGCTCCTCATAATCGATGAAATCTCCTGGG  
+HWI-EAS443:3:49:1352:272#0/1  
abaaa]a`baaa\_a\_\_a\_aa`\_a]a`\_`\_`a^`]]]\_[¥  
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+HWI-EAS443:3:49:1372:407#0/1  
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+HWI-EAS443:3:49:1373:1694#0/1  
a\_aaabbaaab`aaaaa`aa\_a\_a\_`^\_``aa^`\_`\_`]  
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¥`aabbbba^ba¥a\_Vb[`]Y[N[UWNL]SQLOMU¥QU\_Z  
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GTTGGTTCTATTGGAAAATGAAAGAACTTTGGACTACCAC  
+HWI-EAS443:3:49:1407:1186#0/1  
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+HWI-EAS443:3:49:1464:860#0/1  
S¥¥`W[Wa^^¥a\_UUXU[b\_YI\_``¥XP`N^ZaV]\_OV^^  
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+HWI-EAS443:3:49:1469:1963#0/1  
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+HWI-EAS443:3:49:1618:1798#0/1  
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+HWI-EAS443:3:49:170:1127#0/1  
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+HWI-EAS443:3:49:174:1747#0/1  
ab``a\_[^aa`\_a`aaaa^]\_``X`\_¥a``]``\_`a  
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+HWI-EAS443:3:49:1771:2009#0/1  
aaaa^Xa\_WGX`\_]V[V`]]aa¥a[\_\_\_\_aaaaaZ^]\_[  
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+HWI-EAS443:3:49:19:918#0/1  
abaabbabbbb`bbabaabaabaaaaaaaaaaaa`a\_aa  
@HWI-EAS443:3:49:203:1574#0/1  
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+HWI-EAS443:3:49:203:1574#0/1  
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[``a``^bbba\_]W]`a`^`\_W]`\_¥T`^`\_aa^aa`^Y\_  
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+HWI-EAS443:3:49:351:50#0/1  
`a]Xb`aa]^^\_[^\_S`\_`aaV\_\_W\_UTR`\_`[\_¥\_]\_Z0¥\_Z  
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+HWI-EAS443:3:49:373:842#0/1  
]b`¥ZbbbaUF^`a`b^W^W[^]aZYaXHU\_`]aTYT\_]`  
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+HWI-EAS443:3:49:376:1871#0/1  
abaa`Oa^`]Z¥Z`P]a``]¥`\_Paaa^]NQ¥a\_\_`^`¥V  
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+HWI-EAS443:3:49:429:1233#0/1  
[``a\_a]^\_¥`\_`ZW`\_]`\_¥SX\_UMZX¥ZZOZV]X\_U]^  
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+HWI-EAS443:3:49:580:625#0/1  
a`Yb`^a¥a\_NWJTL^K``X^XU^^PVJYU¥¥`ZP\_SUU[  
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+HWI-EAS443:3:49:590:287#0/1  
^\_a\_^\_]b]\_a^a\_aa`a`aab\_\_`a¥P[`a\_`^`^`^`X  
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+HWI-EAS443:3:49:634:950#0/1  
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+HWI-EAS443:3:49:66:89#0/1  
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@HWI-EAS443:3:49:671:1270#0/1  
GAAGTCCTCGTCTATGGGGCATTACCATCCATCTACTA  
+HWI-EAS443:3:49:671:1270#0/1  
a`a^P[a`aa\_a^`aaa`\_a\_\_ba\_a`\_`\_^P^`^\_a\_a`  
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+HWI-EAS443:3:49:69:1226#0/1  
``QW¥RORTW\_]`XWZWaZ`Z`U]V\_WZ\_Z¥W^X¥^]`XX  
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+HWI-EAS443:3:49:714:1315#0/1  
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+HWI-EAS443:3:49:735:853#0/1  
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@HWI-EAS443:3:49:739:1133#0/1  
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+HWI-EAS443:3:49:739:1133#0/1  
abbbabababbaa^aaaaa`^baa`\_aab]\_a`aYaa]`  
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GCTTCCTCTGAGTATTTGGGTAGTCATAAGTCCCATTTT  
+HWI-EAS443:3:49:782:426#0/1  
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+HWI-EAS443:3:49:799:406#0/1  
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+HWI-EAS443:3:49:806:1539#0/1  
ab^b```aaabaaYabbbb`a\_baaab`[a`aaSa¥¥\_a`

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+HWI-EAS443:3:49:829:270#0/1  
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+HWI-EAS443:3:49:845:398#0/1  
ababbbbbbabbbbbbbaabbaba\_aab`^`a\_aaaaa`N^ab  
@HWI-EAS443:3:49:862:840#0/1  
ATGAACTATTACTGGACACTAGTAGAGCCGGGAGACAAAA  
+HWI-EAS443:3:49:862:840#0/1  
a`¥SYa\_b\_\_\_\_\_]]`^`b^`\_`]^`^`\_Z`^W\_]`^\_  
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+HWI-EAS443:3:49:910:966#0/1  
Vb^a`¥XXXSaK\_ZY¥\_LZa\_0^¥aa\_`a¥`VXT`bb^U[  
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+HWI-EAS443:3:49:963:147#0/1  
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+HWI-EAS443:3:49:972:244#0/1  
]b¥¥W\_`a¥Sa\_`Yaa^bZ\_I\_Ubbab`]^`a^`a\_N^a[  
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+HWI-EAS443:3:49:972:855#0/1  
a\_aaba¥V]a`a\_\_^aaY`a]YXWa¥ZQW]\_`^`\_TWVVZ  
@HWI-EAS443:3:49:990:1460#0/1  
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+HWI-EAS443:3:49:990:1460#0/1  
a¥^`\_a]^a`a\_`¥\_H`\_a`a^a`]a`\_\_\_\_\_]Y^`X[¥V^`\_  
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+HWI-EAS443:3:4:100:376#0/1  
`¥¥a`]^]\_Z[a¥[WY[`]\_¥¥ZX]Y¥^TV\_Z\_^YUW¥BB  
@HWI-EAS443:3:4:1025:1105#0/1  
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+HWI-EAS443:3:4:1025:1105#0/1  
aaaa[baa]^aa^b[[aaa\_a^^a\_a¥a^^`a^\_\_Za^\_¥  
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+HWI-EAS443:3:4:1056:856#0/1  
\_aX`b^¥`aba\_]\_`]a\_aa\_aa]aZ\_]N\_a]`a]XaU^a  
@HWI-EAS443:3:4:1080:206#0/1  
GCACCCTTGGGTGTCTGACAAGTTGTATTGCAATCGTGGA  
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a`a]\_\_aa\_`^W\_¥U\_\_^¥¥V¥¥^^¥¥^^¥V[W\_Y^W^WY  
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+HWI-EAS443:3:4:1194:341#0/1  
aaaa`][^R^^\_¥QYZa]Va\_Z``a¥Qa]TTZOV`¥^BB  
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CAATGTAGGACCATGAGCTTGCTGTGGAGAGTGATTCACA  
+HWI-EAS443:3:4:1198:1815#0/1  
Z\_b`ba]a`]Xab` `b` `[ZUab`ba`a[bWbab\_\_\_H^  
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GGTAGATGGATGGTACGGTTATCACCATCAAATGAGCAG  
+HWI-EAS443:3:4:1224:1640#0/1  
aaYbb\_P¥ba[ba`aa`]a\_a\_[aa`aaa`aaa\_\_`a\_\_\_\_  
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CATCTACCATCCCTGTCCACCCCTTCAATGAAACCGGC  
+HWI-EAS443:3:4:1226:1449#0/1  
abb`a`aa]b][aa]Ybb]¥`abXaa\_aaa]aaa`]^aW  
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+HWI-EAS443:3:4:1357:323#0/1  
`\_\_¥a]a[Z[^`^[]ZXR^a` `a^^` `^Z^Za^^a\_`a^`]  
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CTCGGTACCACTAGATTTCCAGTTGCTTCAATGTTATTT  
+HWI-EAS443:3:4:1377:1052#0/1  
`baaa`b\_a]aa`\_aaaa`^\_a\_ab`a\_\_a]\_aaY^]`a\_  
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GAATTTACTTTGTTAGTAATCTCGTCAATGGCATTCTGTG  
+HWI-EAS443:3:4:1386:1686#0/1  
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TGTCGCCAGTTCATTGGTACTGGTAGTCTCCCTGGGGGCA  
+HWI-EAS443:3:4:1441:1221#0/1  
abaaaa`b[`` ` `aa\_^R`aa^\_\_JUSX^]S]` [ `YFQ  
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+HWI-EAS443:3:4:1459:1708#0/1  
aba\_b\_b`baaabb\_baaaa\_bZa\_a\_a\_Waa¥a\_\_Va]a  
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+HWI-EAS443:3:4:1464:456#0/1  
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ATTCTGTGTGCTCTTCAGGTCGGCTGCATATCCTGACCCC  
+HWI-EAS443:3:4:149:906#0/1  
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+HWI-EAS443:3:4:1510:1077#0/1  
aaba`baaab`ab`aa`baaa\_aa`\_\_`\_`\_`\_a`\_a`\_\_`  
@HWI-EAS443:3:4:1533:889#0/1  
GTGGGGACATCAAGATACAGCAAGAAGTTCAAGCCGGAAA  
+HWI-EAS443:3:4:1533:889#0/1  
aVa\_a\_¥Y¥YSZY]V^\_Y\_\_U[`\_[]^VXV^Y]RRXVUVS  
@HWI-EAS443:3:4:1535:96#0/1  
GAAGTCCTCGTGTATGGGGCATTACCATCCATCTACTA  
+HWI-EAS443:3:4:1535:96#0/1  
aaaa¥`]a`\_\_¥a\_\_\_a`^¥¥a\_W\_WS¥¥QV¥¥WV^U^X  
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+HWI-EAS443:3:4:154:1008#0/1  
a`b\_\_\_\_\_a\_\_aa¥\_a`a^`aa`\_`X\_\_`^\_V\_\_VX^`]  
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`T\_[ba^a`b^Z\_bZZZ]a\_aaaa\_\_[aZ[`¥\_\_^^[a\_`  
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+HWI-EAS443:3:4:164:1482#0/1  
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+HWI-EAS443:3:4:1668:194#0/1  
ab]`¥abXaaba`\_]a\_a\_a`a]a^a`aPT¥`\_^`a\_X  
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TGAATTCCTTTTTTAACTAGCCATATTAATTTTTGTAG  
+HWI-EAS443:3:4:1712:1082#0/1  
aa`\_]^a`^aa\_a`^]]\_\_aUW\_a`a`\_\_^`\_`\_`^]]\_  
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+HWI-EAS443:3:4:184:292#0/1  
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+HWI-EAS443:3:4:193:2041#0/1  
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+HWI-EAS443:3:4:193:750#0/1  
`Gaaa`[¥a]U]a\_[Z\_\_a\_\_a`a]^MVU¥\_`^VZ`\_][  
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GCCGGTTTCATTGAAGGGGGTGGACAGGGATGGTAGATG  
+HWI-EAS443:3:4:204:905#0/1  
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+HWI-EAS443:3:4:234:277#0/1  
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+HWI-EAS443:3:4:266:131#0/1  
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+HWI-EAS443:3:4:361:435#0/1  
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+HWI-EAS443:3:4:374:800#0/1  
aaba\_aa`aaaa\_aa`aaabaabb\_`aaaa¥\_``]\_V]a  
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+HWI-EAS443:3:4:385:248#0/1  
^^^b\_````RQS`UVXY¥`U¥ZX[\_a\_XZaZ\_\_Y]¥aS`¥  
@HWI-EAS443:3:4:402:1100#0/1  
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+HWI-EAS443:3:4:402:1100#0/1  
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+HWI-EAS443:3:4:416:1300#0/1  
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+HWI-EAS443:3:4:45:735#0/1  
abbaaaaaaaaa`aaa]`aaa]\_a]\_a\_a\_a\_`aa]\_`\_\_\_\_  
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@HWI-EAS443:3:4:538:1759#0/1  
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+HWI-EAS443:3:4:538:1759#0/1  
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+HWI-EAS443:3:4:561:899#0/1  
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+HWI-EAS443:3:4:571:1506#0/1  
a`aa\_`T0]SaS^]I]Y`\_a^\_a\_aY\_a¥\_``a\_]\_a`WU  
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+HWI-EAS443:3:4:582:2037#0/1  
a`bba]VRVYaa\_Yaaa`^WXWRYTq]`\_\_`¥M¥`¥`¥UB  
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TGAACCTGTCTTGGGGAATATCTCAAACCTTTCAAATGAT  
+HWI-EAS443:3:4:602:283#0/1  
``a`YU\_`VZ^S\_[PRJYZS¥]Ra`^QW\_XVI[\_`[^aZ  
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+HWI-EAS443:3:4:629:521#0/1  
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+HWI-EAS443:3:4:638:1492#0/1  
¥abaaaab`abaaa\_`aa¥aaaaaaaab`aaU^aaa\_`X\_  
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+HWI-EAS443:3:4:882:132#0/1  
aaaabbaaa\_a^]\_aZP^a\_\_Z`\_b^]¥aZ\_\_`S\_PbV  
@HWI-EAS443:3:4:912:38#0/1  
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+HWI-EAS443:3:4:912:38#0/1  
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aabaaaa`a`aa\_\_aaaaaaaa`\_aX\_]a`\_SV`^^]\_\_  
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+HWI-EAS443:3:4:956:681#0/1  
aaaaa``baaW`aa`a`\_`\_a^]\_¥\_Za^\_`Wb\_`\_a`\_`  
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+HWI-EAS443:3:4:986:1350#0/1  
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+HWI-EAS443:3:50:108:837#0/1  
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@HWI-EAS443:3:50:1139:1337#0/1  
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+HWI-EAS443:3:50:1139:1337#0/1  
`U]RZTYUQ\_`YW[^`V\_\_WPN¥[TN\_ZZOQ]XXT[VYV  
@HWI-EAS443:3:50:1166:230#0/1  
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+HWI-EAS443:3:50:1166:230#0/1  
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+HWI-EAS443:3:50:1191:324#0/1  
]`^\_Va\_^]`¥`¥ba\_\_^`Z^``aaa¥a^a^Paa`X^  
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+HWI-EAS443:3:50:1196:983#0/1  
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+HWI-EAS443:3:50:119:150#0/1  
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+HWI-EAS443:3:50:1249:1270#0/1  
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+HWI-EAS443:3:50:128:1254#0/1  
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+HWI-EAS443:3:50:1294:362#0/1  
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¥bb`abba^`aabaaba\_aaba\_Waaa`bbZ[a`ab¥^aa  
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+HWI-EAS443:3:50:1327:773#0/1  
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+HWI-EAS443:3:50:1348:115#0/1  
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+HWI-EAS443:3:50:1445:1735#0/1  
`^a\_Ua^S``\_XRZa]\_ZP]XWY\_\_T\_¥ZOYZ`\_TR¥OL  
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+HWI-EAS443:3:50:1462:1466#0/1  
aa^a]`WaaaZWWaaa`^¥\_KT\_UX^`^XX[Z[L[a[a\_`  
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+HWI-EAS443:3:50:1469:472#0/1  
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+HWI-EAS443:3:50:1488:1518#0/1  
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+HWI-EAS443:3:50:1546:734#0/1  
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+HWI-EAS443:3:50:1550:830#0/1  
a]`aa`aaaa`aa\_aaaa\_`aa`\_¥`a``\_\_\_\_`^¥`  
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+HWI-EAS443:3:50:1551:1121#0/1  
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+HWI-EAS443:3:50:1611:1472#0/1  
Z`\_`\_\_a`\_b`aaabba]¥ZX^a]`[¥X^TSY¥QZS\_`^W  
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+HWI-EAS443:3:50:1646:642#0/1  
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+HWI-EAS443:3:50:1748:1683#0/1  
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+HWI-EAS443:3:50:1776:1119#0/1  
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M` `ab¥aX`SZb^Rb^^^X[XaSavabY]]H\_\_UKYZ¥R^  
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TH¥b\_QZb¥Q¥`^`a^b`UY`bbb`bba\_YS[]T\_Y`[^  
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+HWI-EAS443:3:50:242:280#0/1  
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+HWI-EAS443:3:50:276:1704#0/1  
a`aaba]aaaaba`\_baW\_aaa`S`a\_[]a`aa`^a\_Va\_  
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+HWI-EAS443:3:50:376:1415#0/1  
aba`bbbababaaabbbba\_aaaa`aabaa`\_aab^`]  
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@HWI-EAS443:3:50:437:1453#0/1  
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+HWI-EAS443:3:50:437:1453#0/1  
aa[^aabbbG\_]baabb\_a[L`^ba¥\_a\_H¥aUa^`aa]a

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+HWI-EAS443:3:50:441:274#0/1  
aaaabbba\_bbab\_^baaaaaba]Zbaa` `¥aa]Z` \_\_a\_  
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CTCGTCAATGGCATTCTGTGTGCTCTTCAGGTCGGCTGCA  
+HWI-EAS443:3:50:47:334#0/1  
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+HWI-EAS443:3:50:502:866#0/1  
`S]]\_bb`¥a`]Xbb`^^]a^^`ba`^ZWZaYa`T]^OY  
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+HWI-EAS443:3:50:56:1365#0/1  
aba]^abaabaaa`abaVaa\_¥\_\_^\_aaZa[^¥U\_\_ [ZZZ  
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+HWI-EAS443:3:50:597:183#0/1  
aabaa` `aa\_bbbabaab\_\_`aa\_aa]¥X^^`^TZ^^[YF  
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GAACTCTTTACCTACTGCTGTGAACCTGTGATTTCATCTTT  
+HWI-EAS443:3:50:649:1405#0/1  
¥Z`^a\_bbb\_abbaaba]] [ ] aaaaab`baaaaU\_aaaba  
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+HWI-EAS443:3:50:706:1459#0/1  
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+HWI-EAS443:3:50:720:134#0/1  
\_bab`b`SZZHY\_] ^SaP`a^b\_YUUbaY]\_]ba¥aY`¥Z  
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+HWI-EAS443:3:50:738:399#0/1  
\_` `b^bbb^a\_Za^ab` `a[aa]a\_a`[^]¥[]]a^][¥Z  
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+HWI-EAS443:3:50:755:1773#0/1  
]^` `^`^ [babaa\_Tb]b^\_a\_`Y]] [ `^^a]\_Saaa`aa  
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+HWI-EAS443:3:50:796:524#0/1  
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+HWI-EAS443:3:50:866:1760#0/1  
Z\_b¥[^Zab\_a```b`T\_¥Y\_\_RV`R`\_YR\_`a¥X^Ra]  
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+HWI-EAS443:3:50:875:1200#0/1  
`\_X¥Ya`T\_`Zaa]\_bba^a```\_TX]¥YQ`¥`V¥OVRX]  
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+HWI-EAS443:3:50:943:384#0/1  
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+HWI-EAS443:3:51:1062:1929#0/1  
^\_\_T¥aa]¥Pa`a][aaaa^`aa[^a]][a`\_TG]\_]S^Z  
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+HWI-EAS443:3:51:1063:1193#0/1  
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+HWI-EAS443:3:51:1068:1412#0/1  
¥`b\_`¥U¥XaUS\_bb^MP¥a\_U¥SWa[b]aa]aZUVPQ\_a  
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+HWI-EAS443:3:51:1185:407#0/1  
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+HWI-EAS443:3:51:1316:1555#0/1  
]S\_W[b]#TZ\_T\_OS\_TR#]bYO^J#^\_YNWaaSZ^aX\_U  
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aa`^`abaaaa\_aa]aaa`[^a^\_`^`a^\_\_`^a\_^]^]  
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+HWI-EAS443:3:51:1393:1912#0/1  
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`ba¥¥¥\_^]a`^a\_]\_aYa^b[]^X\_]``UZ\_]YX¥``  
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Y¥`babb\_abb\_baHaa\_`abab\_S``UVVXbaaa]]Z[  
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+HWI-EAS443:3:51:1738:608#0/1  
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+HWI-EAS443:3:51:178:610#0/1  
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+HWI-EAS443:3:51:20:84#0/1  
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+HWI-EAS443:3:51:218:1391#0/1  
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+HWI-EAS443:3:51:232:1911#0/1  
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+HWI-EAS443:3:51:266:526#0/1  
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+HWI-EAS443:3:51:283:1320#0/1  
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+HWI-EAS443:3:51:322:1231#0/1  
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¥`b\_V]`^a`X`\_¥Z^]aP¥Vb¥`a]Zaaa`baYbaa\_¥]  
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CTAGATTTCCAGTTGCTTCGAATGTTATTTTGTCTCCCGG  
+HWI-EAS443:3:52:629:1674#0/1  
¥[^aW\_\_bWYY^R[``\_]XUXW\_]^]\_a`a`YT\_S[VP^  
@HWI-EAS443:3:52:718:821#0/1  
CATATCCTGACCCCTGCTCATTGTGATGGTGATAACCGTA  
+HWI-EAS443:3:52:718:821#0/1  
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@HWI-EAS443:3:52:794:453#0/1  
CACAAATGCGATAACACGTGCATGGAAAGTGCAAAAATG  
+HWI-EAS443:3:52:794:453#0/1  
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@HWI-EAS443:3:52:809:560#0/1  
GCTCCTCATAATCGATGAAATCTCCTGGGTAACACGTTCC  
+HWI-EAS443:3:52:809:560#0/1  
aaa^aaa]aaa`\_a¥]`a^¥`\_`]\_\_[[`Za\_\_`^a`]]^  
@HWI-EAS443:3:52:812:396#0/1  
GCAGCATGTCCTCATGCTGGAGCAAAAAGCTTCTACAAAA  
+HWI-EAS443:3:52:812:396#0/1  
aa^`Y`ab]W¥a\_aa\_]\_a\_Xa\_aaY[]\_Naa[a`Z``]\_  
@HWI-EAS443:3:52:823:795#0/1  
GCTTCTCTGAGTATTTTGGGTAGTCATAAGTCCCATTTT  
+HWI-EAS443:3:52:823:795#0/1  
aabb\_^a`baab^aaa\_aaa`OU]XTZ\_]¥T^^ZX``\_`  
@HWI-EAS443:3:52:830:842#0/1  
GGGAAATCCAGAGTGTGAATCACTCTCCACAGCAAGCTCA  
+HWI-EAS443:3:52:830:842#0/1  
\_aaaabaaaaaab`b\_aaaaaaaaa`a\_a`aaa``a\_a```

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+HWI-EAS443:3:52:880:715#0/1  
a\_abaab\_baab`abaaaa\_`aa`\_`aa`a[a¥`¥aaaa  
@HWI-EAS443:3:52:896:1691#0/1  
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+HWI-EAS443:3:52:896:1691#0/1  
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@HWI-EAS443:3:52:903:943#0/1  
AGTCCACGATTGCAATACAACCTTGTCAGACACCCAAGGGT  
+HWI-EAS443:3:52:903:943#0/1  
ab]aaaabaabbabaaaa`\_aaa`\_aa`\_`^`[^aaa``V  
@HWI-EAS443:3:52:932:19#0/1  
GACAATGGAACGTGTTACCCAGGAGATTTTCATCGATTATG  
+HWI-EAS443:3:52:932:19#0/1  
aaa`^`\_`\_¥¥Q^¥a]XSNJNS`^U^Pa^Z[U][`SZUT¥`  
@HWI-EAS443:3:52:993:859#0/1  
GTTATTTTGTCTCCCGGCTCTACTAGTGTCCAGTAATAGT  
+HWI-EAS443:3:52:993:859#0/1  
a```a`]^[VR]`SJ[^`^X¥P¥TUL[WVQF¥UYSZSFK  
@HWI-EAS443:3:53:1010:863#0/1  
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+HWI-EAS443:3:53:1010:863#0/1  
SabbKbbbb`babbbbabbbbabbbaabbabb`baab`b  
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+HWI-EAS443:3:53:1011:238#0/1  
abbbbbbbabaabaab`aa`]`a``YRXaaaWaa\_`¥```  
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ATGAAATCTCCTGGGTAACACGTTCCATTGTCTGAACTAG  
+HWI-EAS443:3:53:1017:1628#0/1  
a`ab`[^`ba``\_]\_Z¥¥a\_`^T^a]Zaa`^`\_b\_X]^a^^  
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CTGAGTATTTTGGGTAGTCATAAGTCCCATTTTGGACACT  
+HWI-EAS443:3:53:1036:1992#0/1  
^a^^aabba`aaX\_G¥¥ST`\_\_`]0\_b`[^`b\_]baab\_a  
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TGCATATCCTGACCCCTGCTCATTTTGGATGGTGATAACCG  
+HWI-EAS443:3:53:1056:302#0/1  
aba\_bbba\_]aba`\_aa^Xaaababb`aba^b^`a]YU[  
@HWI-EAS443:3:53:1061:1146#0/1  
GGGGCCATTGCCGTTTCATTGAAGGGGGTGGACAGGGA  
+HWI-EAS443:3:53:1061:1146#0/1  
aaTba^aWZ[^]a`Ya``¥`]YPU^`]aaaPY¥MSW¥^aP  
@HWI-EAS443:3:53:1076:641#0/1  
GCTTCGAATGTTATTTTGTCTCCCGGCTCTACTAGTGTCC  
+HWI-EAS443:3:53:1076:641#0/1  
\_\_^X`b^`a^Z[]^`bbaa``]¥Q\_a``Y^ML[¥`YVRQQ  
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CAGGGGTCAGGATATGCAGCCGACCTGAAGAGCACACAGA

+HWI-EAS443:3:53:107:1068#0/1  
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+HWI-EAS443:3:53:1104:433#0/1  
aaab¥]aabaW\_\_aa¥[Z]\_aX^Y\_`\_`\_aaT\_¥L[a`\_\_  
@HWI-EAS443:3:53:1111:301#0/1  
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+HWI-EAS443:3:53:1111:301#0/1  
Y`aabb\_b^bbab¥I\_aaba^^abbbaaYZ]ZZ¥S¥Y\_^X  
@HWI-EAS443:3:53:1119:1038#0/1  
GCTGGCTGGATCCTGGGAAATCCAGAGTGTGAATCACTCT  
+HWI-EAS443:3:53:1119:1038#0/1  
^]\_`^`\_a`W¥^U^\_L^][X\_RYV\_ZaXaU\_XPXLUIW  
@HWI-EAS443:3:53:1120:194#0/1  
CAATAACAGAATTTACTTTGTTAGTAATCTCGTCAATGGC  
+HWI-EAS443:3:53:1120:194#0/1  
T\_S`¥aabV[]S[Y`^[KP¥bVV`[]aaVaV^aV¥XP[  
@HWI-EAS443:3:53:1209:1241#0/1  
GAACTTGTCTTGGGAATATCTCAAACCTTTCAAATGATG  
+HWI-EAS443:3:53:1209:1241#0/1  
a`\_]aabV`aa`]\_^aa\_a`^a\_`\_`^`aaaZaaaa`]a  
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+HWI-EAS443:3:53:1231:1212#0/1  
`b`b\_aa]VbbXa[a`V]baaabNbb\_aaa]aRYX`  
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ACTTCTTGCTGTATCTTGATGTCCCCACAAAAACATATGC  
+HWI-EAS443:3:53:1244:289#0/1  
abbbababaa`ab`babaab`\_aaa\_ab^`aaaaaa]  
@HWI-EAS443:3:53:1244:620#0/1  
GGGGACATCAAGATACAGCAAGAAGTTCAAGCCGAAAATA  
+HWI-EAS443:3:53:1244:620#0/1  
W\_¥\_aba\_GP[aa`\_WaS\_`b]^a\_a\_babX`b`]]¥aa  
@HWI-EAS443:3:53:1274:1775#0/1  
GCTTCCTCTGAGTATTTGGGTAGTCATAAGTCCCATTT  
+HWI-EAS443:3:53:1274:1775#0/1  
^\_\_`YZ`a`\_Y\_aa`^a¥`Z`a\_X\_^¥aaKHPTX]`\_]  
@HWI-EAS443:3:53:1359:466#0/1  
CTTCCTCTGAGTATTTGGGTAGTCATAAGTCCCATTT  
+HWI-EAS443:3:53:1359:466#0/1  
abbb`abbb`\_`¥bbbb`b^V^Y¥b\_aa]baV^ababbbb  
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GCTGGCTGGATCCTGGGAAATCCAGAGTGTGAATCACTCT  
+HWI-EAS443:3:53:1379:1452#0/1  
a\_`YQYa`[[ZRNU\_a[Z`^UZ`U^W`V¥UaS^^¥\_OUMW

@HWI-EAS443:3:53:137:380#0/1  
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+HWI-EAS443:3:53:137:380#0/1  
aba`babbba\_^abb]abaaab`]ab]a\_`ba\_`[aaaa[a  
@HWI-EAS443:3:53:1396:1663#0/1  
CTGCATTCTGATAGAGACTTTGTTGGTCAGCACTAGTAGA  
+HWI-EAS443:3:53:1396:1663#0/1  
ab]Ybbbabbbbababbababbabab`]aa`^\_aab\_aa\_  
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ACATATTCTACTGTAGAGACCCATTAGAGCACATCCAG  
+HWI-EAS443:3:53:1400:1774#0/1  
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+HWI-EAS443:3:53:1440:504#0/1  
aa[\_`babaaaaa`aab\_a^\_a`\_`\_a`aZ^^^`\_\_^^  
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GCTTCCTCTGAGTATTTTGGGTAGTCATAAGTCCCATTTT  
+HWI-EAS443:3:53:1447:2040#0/1  
a¥`a\_^aa```a]\_`a`\_a`¥U`\_]`]^^^Z^]Z\_]`^`^  
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+HWI-EAS443:3:53:1485:273#0/1  
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@HWI-EAS443:3:53:1531:713#0/1  
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+HWI-EAS443:3:53:1531:713#0/1  
\_abab`bb`]ababbab\_bba^abbba^bababbRb^a`X  
@HWI-EAS443:3:53:1533:1151#0/1  
GACAAGTTGTATTGCAATCGTGGACTGGTGTATCTGAAAT  
+HWI-EAS443:3:53:1533:1151#0/1  
a`\_\_\_\_`baaaaa`]aaa`a\_aa\_\_abaYba``^aa\_^\_`  
@HWI-EAS443:3:53:155:739#0/1  
TTCAGGTCGGCTGCATATCCTGACCCCTGCTCATTTTGAT  
+HWI-EAS443:3:53:155:739#0/1  
]aabaaTaaaa```aaa^aa`a`\_`\_\_[\_]\_[\_a^a\_`]  
@HWI-EAS443:3:53:1716:691#0/1  
CAAGTTGTATTGCAATCGTGGACTGGTGTATCTGAAATGA  
+HWI-EAS443:3:53:1716:691#0/1  
aaaa`a``bb`]¥a`a\_\_¥Pa^]a`U¥\_``]ababaa``  
@HWI-EAS443:3:53:1738:1322#0/1  
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+HWI-EAS443:3:53:1738:1322#0/1  
`ba]aa^baa`aZaa^a\_[V]UZ^`\_\_[Wa]R¥[U]WXQN  
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GTCAGGATATGCAGCCGACCTGAAGAGCACACAGAATGCC  
+HWI-EAS443:3:53:1782:1464#0/1  
a\_]aaaabaaba`a\_\_`\_]Z`¥^^^Z¥NZ]ZRY\_]`SVWS  
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AGATGGATGGTGAATGCCCCATAGCACGAGGACTTCTTTC

+HWI-EAS443:3:53:187:36#0/1  
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+HWI-EAS443:3:53:204:637#0/1  
abaa`babXZaa`baXU[a``\_`aa\_V`\_\_`\_\_aaaa\_^  
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GGCTGCTTTGAATTTTACCACAAATGCGATAACACGTGCA  
+HWI-EAS443:3:53:228:439#0/1  
¥[`^aaaa`a]aaab\_\_ba`U``aa¥\_V^¥]X\_X\_¥a\_¥  
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@HWI-EAS443:3:53:265:81#0/1  
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+HWI-EAS443:3:53:265:81#0/1  
aa`ZX`]X[¥a^a`[``a]`\_\_^XZZ\_X`¥XYS¥a¥X¥  
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+HWI-EAS443:3:53:277:1189#0/1  
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AAGCTTTTTGCTCCAGCATGAGGACATGCTGCCGTTACAC  
+HWI-EAS443:3:53:317:549#0/1  
aab^bbaaabaab`aaaaa^\_aa`aa`\_`T[a¥\_^^^U  
@HWI-EAS443:3:53:397:687#0/1  
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+HWI-EAS443:3:53:397:687#0/1  
a`][\_\_aaaa]aaa\_aaaaaa\_\_aYa^a¥a\_^a`Y^^\_`^`  
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+HWI-EAS443:3:53:399:654#0/1  
aaa`^bbb\_\_a^aabab^¥aV¥[\_P[\_\_]X]¥\_\_a¥^]  
@HWI-EAS443:3:53:440:279#0/1  
ATGCAAATAAGAGGGGTAGCCCCATTGCATTTGGGTAAA  
+HWI-EAS443:3:53:440:279#0/1  
aabaa\_aaaaaaab`\_\_a\_\_Za[\_^ZYU]^\_\_a`]]]]  
@HWI-EAS443:3:53:495:1006#0/1  
TTTTACCACAAATGCGATAACACGTGCATGGAAAGTGTCA  
+HWI-EAS443:3:53:495:1006#0/1  
aaaabaababaaaaaa`aa`^\_]aaa``aa]]\_\_a`  
@HWI-EAS443:3:53:506:1068#0/1  
GAATCACTCTCCACAGCAAGCTCATGGTCCTACATTGTGG  
+HWI-EAS443:3:53:506:1068#0/1  
aa[a\_aaV`a^¥aaZ\_^`aa]^b\_a\_[Tbaa]^`aa`[\_`X  
@HWI-EAS443:3:53:517:759#0/1  
ATTTACTTTGTTAGTAATCTCGTCAATGGCATTCTGTGTG  
+HWI-EAS443:3:53:517:759#0/1  
\_\_abbabbbb`\_\_```^`aabaaa`a\_\_]aaaaa¥`]`

@HWI-EAS443:3:53:550:1386#0/1  
TCGCATTTGTGGTAAAATTCAAAGCAGCCGTTTCCAATTT  
+HWI-EAS443:3:53:550:1386#0/1  
aab[a`ba`\_b\_Ua\_^`]`a`aa[W]¥^a^`]]V\_\_¥\_  
@HWI-EAS443:3:53:550:265#0/1  
CTAGTTCAGACAATGGAACGTGTACCCAGGAGATTTTCAT  
+HWI-EAS443:3:53:550:265#0/1  
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@HWI-EAS443:3:53:559:147#0/1  
CATCTTTTCAATAACAGAATTTACTTTGTTAGTAATCTCG  
+HWI-EAS443:3:53:559:147#0/1  
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+HWI-EAS443:3:53:587:904#0/1  
abb\_Z`a`[a`aWYa^\_Waaaa`Y]\_aa^U`\_`T`a\_aaU  
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+HWI-EAS443:3:53:591:849#0/1  
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+HWI-EAS443:3:53:605:546#0/1  
ababbbba`abbabaabaaa^baaaaaaaaa]aa\_a\_ab\_  
@HWI-EAS443:3:53:614:1217#0/1  
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+HWI-EAS443:3:53:614:1217#0/1  
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+HWI-EAS443:3:53:645:342#0/1  
aaabaab`bbbbbabbbabaa¥baba`aabaaaa^baaaa  
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GAGCAATTGAGCTCAGTGTTCATCATTGAAAGGTTTGAGA  
+HWI-EAS443:3:53:712:112#0/1  
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AAGTCCTCGTGCTATGGGGCATTACCATCCATCTACTAG  
+HWI-EAS443:3:53:726:723#0/1  
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+HWI-EAS443:3:53:733:320#0/1  
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ATCTTTTCAATAACAGAATTTACTTTGTTAGTAATCTCGT

+HWI-EAS443:3:53:742:1141#0/1  
a`^\_bb^T\_b` `]Ra^]a\_^[QQbZW^T]^a[SQb^a\_aN  
@HWI-EAS443:3:53:742:813#0/1  
AGCACATCCAGAACTGATTGCCCCAGGGAGACTACCAG  
+HWI-EAS443:3:53:742:813#0/1  
abaa`bbbaba` `a[bbaaaba`¥^ab\_¥\_`aa`a`W`\_a  
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GGGGACATCAAGATACAGCAAGAAGTTCAAGCCGAAATA  
+HWI-EAS443:3:53:751:2032#0/1  
ab^Z` `a`^^]a\_\_aaaa`ab` ``aW]\_` `aT[aaZ^\_^]  
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+HWI-EAS443:3:53:768:915#0/1  
aba\_]b`\_X` `\_ZX]a[W`\_XZ]ZP\_aaU`U]^S]\_\_VZY  
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AACGTGTTACCCAGGAGATTTTCATCGATTATGAGGAGCTA  
+HWI-EAS443:3:53:783:1075#0/1  
aa] [\_baba` `` `ababa`\_baabab\_baabaaba`\_aa  
@HWI-EAS443:3:53:853:403#0/1  
CAAGATACAGCAAGAAGTTCAAGCCGAAATAGCAATAAG  
+HWI-EAS443:3:53:853:403#0/1  
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+HWI-EAS443:3:53:888:570#0/1  
aab]\_I\_aa¥¥[\_\_\_\_][aa]a\_V\_\_`]^\_\_¥\_\_aa^¥T\_a  
@HWI-EAS443:3:53:922:1906#0/1  
CTTCAGGTGGCTGCATATCCTGACCCCTGCTCATTTTGA  
+HWI-EAS443:3:53:922:1906#0/1  
ab]\_ba`][H` `bbbbbbWbbbbba[ ` `abbaababab^  
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GCTGGCTGGATCCTGGGAAATCCAGAGTGTGAATCACTCT  
+HWI-EAS443:3:53:970:137#0/1  
a^]Z¥SX\_^T]RNVaaYKW^ZTY¥\_V^U^U\_V[[RWSUUU  
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+HWI-EAS443:3:54:102:1354#0/1  
aa`aaaaaN` `aaa\_[`\_Y^` `Q\_¥a\_T^W¥^ZU\_¥N\_¥  
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CAGGGTCAGGATATGCAGCCGACCTGAAGAGCACACAGA  
+HWI-EAS443:3:54:1030:1648#0/1  
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+HWI-EAS443:3:54:1030:487#0/1  
aaaaaa`aaabaaabba^abaaa]aaaa\_aaaaa^a`^a`  
@HWI-EAS443:3:54:1035:366#0/1  
TGGGGACATCAAGATACAGCAAGAAGTTCAAGCCGAAAT  
+HWI-EAS443:3:54:1035:366#0/1  
^^^a^]S\_\_PU[\_] `b` ``XZ¥WQZ]FRYSSaXNVXSX¥R



@HWI-EAS443:3:54:1054:421#0/1  
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+HWI-EAS443:3:54:1078:425#0/1  
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+HWI-EAS443:3:54:107:857#0/1  
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+HWI-EAS443:3:54:1081:1368#0/1  
a\_\_\_a][^J[aa^aa]Z]¥`\_a`Y`^\_\_\_\_]]`\_][^^  
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+HWI-EAS443:3:54:1112:1018#0/1  
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+HWI-EAS443:3:54:1155:635#0/1  
\_Paa]^`\_`RX\_aVab\_aa`\_\_`\_YTXP`R`\_a\_UR¥^R^  
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+HWI-EAS443:3:54:1157:741#0/1  
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+HWI-EAS443:3:54:1167:408#0/1  
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+HWI-EAS443:3:54:1171:1423#0/1  
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+HWI-EAS443:3:54:1179:893#0/1  
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+HWI-EAS443:3:54:1194:282#0/1  
a\_aaZS\_a\_aZL¥X¥`Pa\_Z`YY]\_RU¥Z¥¥WT]ZZVQVS  
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GATGAAATCTCCTGGGTAACACGTTCCATTGTCTGAACTA  
+HWI-EAS443:3:54:1238:1869#0/1  
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+HWI-EAS443:3:54:124:1510#0/1  
`babb¥]^`a`aa`[[`a^`a[¥``[Z^\_]\_\_a`¥W¥\_`  
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+HWI-EAS443:3:54:1252:1526#0/1  
a\_`a\_a\_abaaaba\_`bbaaaa`\_`a^Ja]\_\_a^WS`^`\_]  
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+HWI-EAS443:3:54:1290:1514#0/1  
`\_Z\_^]bb`aZ\_a¥^[Ua\_aaa``aSP`a`^`\_a\_Z\_`L]  
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+HWI-EAS443:3:54:1427:1307#0/1  
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+HWI-EAS443:3:54:1483:783#0/1  
a\_^a^```]a`]babbabaa\_ZXU^`Vb\_`\_`OW^]S]U  
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a^Z^a^)`^^[U`a\_a^aa^H^a\_\_\_\_WS\_\_\_\_][`\_Q\_\_\_\_\_]`  
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+HWI-EAS443:3:54:1542:1393#0/1  
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TGAATTTCTTTTTTAACTAGCCATATTAATTTTTGTAG  
+HWI-EAS443:3:54:1547:860#0/1  
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+HWI-EAS443:3:54:1565:501#0/1  
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+HWI-EAS443:3:54:1569:930#0/1  
ab``a``bbbbabbbababbbbab\_X¥aabbbbbbabb`  
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+HWI-EAS443:3:54:159:1570#0/1  
abaa\_Y`\_^\_a`ba\_\_bb`^Y[aaa^b^`]`````^¥  
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+HWI-EAS443:3:54:1612:956#0/1  
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@HWI-EAS443:3:54:1622:154#0/1  
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+HWI-EAS443:3:54:1622:154#0/1  
ab^]¥\_\_^`\_`Y¥Z]a[`a[aYa`\_^`\_\_^`\_]\_Z[Y`  
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+HWI-EAS443:3:54:1627:1908#0/1  
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+HWI-EAS443:3:54:1662:1106#0/1  
V^¥[\_`ba`^`bbbbbbabbbba^`\_`a\_aa¥\_\_]a¥Z`b  
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+HWI-EAS443:3:54:1716:295#0/1  
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\_N¥\_ZYDP\_]¥P^`aa\_aaa]^aa\_aSaTS[^^\_\_ZQ\_Y  
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+HWI-EAS443:3:54:210:591#0/1  
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+HWI-EAS443:3:54:243:607#0/1  
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+HWI-EAS443:3:54:252:173#0/1  
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+HWI-EAS443:3:54:259:1402#0/1  
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+HWI-EAS443:3:54:262:1366#0/1  
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a`¥[RW\_P\_TZ[YUQQSWMV]¥RVX¥[URYR¥UTR[BBBB  
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a)````\_`aaaa\_]¥OWa`^`X¥[]YY\_Z]¥^ZYP\_[¥Y^  
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+HWI-EAS443:3:54:293:1195#0/1  
[D[\_W\_\_Xa^XZ^Y^a\_¥aaa\_]ZZ`[[Xa^`^¥^^[V]  
@HWI-EAS443:3:54:307:1316#0/1  
GCTCATTTTTGATGGTGATAACCGTACCATCCATCTACCAT  
+HWI-EAS443:3:54:307:1316#0/1  
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+HWI-EAS443:3:54:314:991#0/1  
\_aab`ab`\_abaaab^bbb`bba\_b`\_aaba\_aaa\_``a`  
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GGCATTCTGTGTGCTCTTCAGGTCGGCTGCATATCCTGAC  
+HWI-EAS443:3:54:329:15#0/1  
a`\_^[\_ab`P\_]aabaaaa``\_KZ\_]`^Y¥TT]XVQ^UR  
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+HWI-EAS443:3:54:368:915#0/1  
aa¥a[aa`\_a]\_a\_¥aba`a]aP]S]\_TX`^R\_¥aYY[\_Z

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+HWI-EAS443:3:54:387:115#0/1  
aa`bb\_baa[\U]\T`\a\_a\_]\`Y\_`^]\\_[\X]^W^]  
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+HWI-EAS443:3:54:418:154#0/1  
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+HWI-EAS443:3:54:46:1703#0/1  
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+HWI-EAS443:3:54:471:1592#0/1  
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+HWI-EAS443:3:54:518:1184#0/1  
a`\`ab`\`\_`¥`¥¥]\`abaa`aa^\_]\`¥a`¥a\_]Z`^`\_`\_Z]\`¥  
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a`ab`aaaaaaaaa^a¥¥`\`Z]\_a]a]\`\_\_`\`a\_`]Z  
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+HWI-EAS443:3:54:575:1923#0/1  
YYUT]\`^a^GW`\`a`UW\_`^`^bXU^T¥a]\_`J¥`RNNZP[  
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+HWI-EAS443:3:54:605:264#0/1  
abab¥baZ^\_U^^a]\_a`^Y[a[[bVY]]\_]aUa]`\_\_`]  
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+HWI-EAS443:3:54:649:548#0/1  
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@HWI-EAS443:3:54:683:1107#0/1  
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+HWI-EAS443:3:54:683:1107#0/1  
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+HWI-EAS443:3:54:68:212#0/1  
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+HWI-EAS443:3:54:694:509#0/1  
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+HWI-EAS443:3:54:698:1090#0/1  
aa`baabababababbaabaaaaabaa` `aa`aabaaaa¥  
@HWI-EAS443:3:54:698:854#0/1  
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+HWI-EAS443:3:54:698:854#0/1  
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+HWI-EAS443:3:54:702:21#0/1  
a` `ZZ[^Y]U¥^¥¥UUPU\_\_YT]STRR¥`^Y]^TT¥TZS  
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+HWI-EAS443:3:54:790:489#0/1  
aaabaaaYa\_b`a`a^aa` `a[\_aaaa`\_^X[\_`^`¥  
@HWI-EAS443:3:54:843:1222#0/1  
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+HWI-EAS443:3:54:843:1222#0/1  
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+HWI-EAS443:3:54:84:1175#0/1  
a`¥\_ababb^^Xa^a`W` `aa\_aaa\_a`\_aa`aa][¥Y`

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+HWI-EAS443:3:54:885:959#0/1  
a]¥`]^`b`aa^¥b][G]Z¥¥``]]`R`aa[TV`Z¥XW\_  
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+HWI-EAS443:3:54:98:1057#0/1  
[bba¥\_\_abbT^``abbaabbbba\_\_ZaaaaZZ\_baa]^`  
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+HWI-EAS443:3:55:1003:73#0/1  
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+HWI-EAS443:3:55:1009:1544#0/1  
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GCTCCTCATAATCGATGAAATCTCCTGGGTAACACGTTCC  
+HWI-EAS443:3:55:1032:1522#0/1  
^`Ya^¥`]U\_U¥``\_]¥`¥aXZaYVTaYG¥^WRYV\_^XN  
@HWI-EAS443:3:55:104:935#0/1  
GGGGCTACCCCTTTAGTTTGCATAGTTTCCCGTTATGCT  
+HWI-EAS443:3:55:104:935#0/1  
a\_\_S\_Y`XV\_aYVUYUUS]U`PTTNXU`¥S¥[XVSYMYW[  
@HWI-EAS443:3:55:10:1350#0/1  
GTCCCATTTTTGACACTTTCCATGCACGTGTTATCGCATT  
+HWI-EAS443:3:55:10:1350#0/1  
\_Y¥W¥`^`W[\_TUW]\_^U^Z\_VQ¥]\_Y`W][][UZU^  
@HWI-EAS443:3:55:1103:536#0/1  
GGTAAAATTCAAAGCAGCCGTTTCCAATTTCCCTTGGCATT  
+HWI-EAS443:3:55:1103:536#0/1  
a^Yabb`baaaa[aaaaa`a`a\_]\_\_]a\_a^P`\_b\_Z]\_`  
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+HWI-EAS443:3:55:1110:957#0/1  
aa`]ba]\_aa]``[-^Z`^^`]^aa\_^`[Sa^^¥¥VOVR  
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+HWI-EAS443:3:55:11:194#0/1  
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@HWI-EAS443:3:55:1233:1095#0/1  
AAAAGGTAAGAAGCCAGTTAAAAACAATGCCAAGGAAAT  
+HWI-EAS443:3:55:1233:1095#0/1  
Y¥S¥\_`0`X^bZ`^]XU[Z`b\_]``a¥TWZVP\_Y^UZ\_\_a  
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+HWI-EAS443:3:55:1259:201#0/1  
aaaa]Y```\_aU¥\_¥a¥[^a\_[[Y[a¥\_U¥V¥\_S¥U^V^  
@HWI-EAS443:3:55:1309:1093#0/1  
AAGAAATGCTGGATCTGGTATTATCATTTCAGATACACCA  
+HWI-EAS443:3:55:1309:1093#0/1  
aaaaa`a^`ZY\_SZXY`Zaa`[^TW]^W[```\_aY`^U^  
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+HWI-EAS443:3:55:1332:1787#0/1  
a\_aaaaaa`aa[`aa\_\_aV¥Xa\_`TT\_\_^]`^`\_U\_\_^`\_  
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+HWI-EAS443:3:55:1360:1330#0/1  
aa^\_X```\_`^`\_`a^[V\_a\_[X\_^`a\_\_\_a[[XNU^^  
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ab\_`\_baaab`ba\_aaaaabaa`aSaaa`]aa][^aaVa0  
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+HWI-EAS443:3:55:1447:1283#0/1  
`^aX`aaaaa[a`¥^`¥\_R\_\_aa]^`[X`aa``a`X¥X\_\_  
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+HWI-EAS443:3:55:1524:646#0/1  
\_b]¥Za\_X^`\_]¥NZ^ZaaS]\_^W]XX\_¥^`^aZ][QXZU  
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+HWI-EAS443:3:55:1545:357#0/1  
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+HWI-EAS443:3:55:1572:962#0/1  
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+HWI-EAS443:3:55:1581:215#0/1  
\_`bXW\_[bbb]]b[a]b[b`bbababbZ^WZa^]aaa`S[



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+HWI-EAS443:3:55:1597:1524#0/1  
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+HWI-EAS443:3:55:159:1694#0/1  
aba`aaaabaaaba\_]`\_]`b`aa\_a^^`\_`\_]`a`a`\_  
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+HWI-EAS443:3:55:1731:1272#0/1  
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+HWI-EAS443:3:55:1739:449#0/1  
ab`aaa`\_`aaaaaab^ba\_aa¥^a¥aaaabaaa`a`\_a^  
@HWI-EAS443:3:55:1789:1083#0/1  
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+HWI-EAS443:3:55:1789:1083#0/1  
\_U]Y]X^[[ab\_¥J\_T\_ba^ab]]SZ\_\_ZWH[``^X`ab  
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+HWI-EAS443:3:55:240:889#0/1  
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+HWI-EAS443:3:55:269:405#0/1  
aabaaaa`a`aa`a`aaa`ba`^^Y\_\_^[^^`\_a\_\_^\_^  
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+HWI-EAS443:3:55:281:1456#0/1  
`WYa^UMMW\_^`MW^ZS]PLP\_`YXQLTWXSLR\_`^]`^RZ  
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+HWI-EAS443:3:55:345:525#0/1  
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+HWI-EAS443:3:55:348:1392#0/1  
a[a`a^`^`\_`aaa`[\_a\_aa[V[R¥`^V^[V]^`Y]\_  
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+HWI-EAS443:3:55:400:683#0/1  
aa` `[`ZR^U]\_a]`U]aaa`\_`aaaa^GSa\_aa\_a`aaa\_  
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+HWI-EAS443:3:55:468:1077#0/1  
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+HWI-EAS443:3:55:472:474#0/1  
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@HWI-EAS443:3:55:49:1224#0/1  
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+HWI-EAS443:3:55:49:1224#0/1  
aaaaaa\_a\_aaaaaaaa`aaaa`a^`^a\_[\_\_`[a^^a\_]  
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+HWI-EAS443:3:55:588:1467#0/1  
aaV`^^^\_aaaa]aa]^a[R¥^\_^]`^\_^Z¥a`\_\_a\_\_Y  
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+HWI-EAS443:3:55:604:1810#0/1  
aa]\_a`a`[`aa^a`b`\_a\_Y[``aa[aaa\_\_`\_\_`a`  
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+HWI-EAS443:3:55:69:1193#0/1  
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+HWI-EAS443:3:55:754:170#0/1  
aa¥a``baaa`aa`aa\_aa\_a^aaa`\_\_a\_a`a``Z\_]`  
@HWI-EAS443:3:55:788:1631#0/1  
GTAGGATTTGCTGAGCTTTGGGTATGAATTCCTTTTTTA  
+HWI-EAS443:3:55:788:1631#0/1  
\_X]aaaa^\_\_aaa[ ]`\_a]``Y`a`]U^a\_`¥\_a\_a`\_  
@HWI-EAS443:3:55:857:1037#0/1  
GGCTGGTGTATAGCACCTTGGGTGTCTGACAAGTTGT  
+HWI-EAS443:3:55:857:1037#0/1  
abaabb\_a\_bbaaa`aaa\_\_aaaaa]a`\_]¥^\_]a^`]]  
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GTCAGCACTAGTAGATGGATGGTGAATGCCCCATAGCACG  
+HWI-EAS443:3:55:859:506#0/1  
a`aaaa¥aaaaXaaaa]a`\_aaZa[\_`a`\_^Z¥`\_\_\_\_]`

@HWI-EAS443:3:55:868:1044#0/1  
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+HWI-EAS443:3:55:868:1044#0/1  
aaa\_`a]ab^^^`VZ\_\_a`a\_a\_^^`]XV`^\_a^`a^^^^  
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+HWI-EAS443:3:55:879:1213#0/1  
JQRW[\_SS\_T^Y^aVW¥a^[\`RU¥b\_BBBBBBBBBBBBBB  
@HWI-EAS443:3:55:921:1558#0/1  
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+HWI-EAS443:3:55:921:1558#0/1  
¥S\_^¥W^Y^Q\_XTY`¥TZ\_\_LWa¥\_U]Z[XL¥V]]VLVTZ  
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ACTGATTGCCCCAGGGAGACTACCAAGTACCAATGAACTG  
+HWI-EAS443:3:55:937:590#0/1  
```a`a`a\_a\_\_X¥`\_\_\_\_Z^^`VUY\_]\_WT^]^^]]XVV  
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+HWI-EAS443:3:55:963:483#0/1
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@HWI-EAS443:3:55:964:168#0/1
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+HWI-EAS443:3:55:964:168#0/1
aaba`baab`abb_``abba`_`a_]`^a_]`[]_RQY¥TS]
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+HWI-EAS443:3:56:1008:558#0/1
abba`baabaaabaaabb`ba`a`aa_aaaa]aa_aaa[
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+HWI-EAS443:3:56:1057:1178#0/1
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+HWI-EAS443:3:56:1087:1966#0/1
a`ZP^`_YWUY]YRU¥S_^Z[Z¥W¥^W_WT¥¥RNXW[QTV
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+HWI-EAS443:3:56:1131:1243#0/1
a``a[_`bbb^a`b`a`]]¥_`a`_`Z^a_YV_`Z`aZa_
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+HWI-EAS443:3:56:1151:686#0/1
^QZ¥_bb¥b_`Y¥V]`V^¥P]bab[baa]aaX_baS_[NW
@HWI-EAS443:3:56:1192:336#0/1
TGTTACCCAGGAGATTTTCATCGATTATGAGGAGCTAAGAG
+HWI-EAS443:3:56:1192:336#0/1
aa``a``aaaa`a_`a_```_a]a`_aa^`TZ`Z`_]`^`^
@HWI-EAS443:3:56:11:684#0/1
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+HWI-EAS443:3:56:11:684#0/1
aaaa`aaaba`a[]`_`_]``_`_`aZ^¥W¥_]^X^]Z]_Z
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+HWI-EAS443:3:56:1237:1450#0/1
a`a``a`a`aaaa``_a^_a]``PUYV]_¥`]^`^^UU
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+HWI-EAS443:3:56:1246:742#0/1
^a_aa`ba`b`abbaa`]a[aab^aabaa`_]a`R`aa¥^
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+HWI-EAS443:3:56:1284:1919#0/1
aaaaWW`_`Ya`_`_]_V`a]`YYXW^_ZX^^]X`_^`W_]
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+HWI-EAS443:3:56:1293:345#0/1
_abb`bbb`aaa_a^``abbb_aa]^aa`_aa``a]Y_V_
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+HWI-EAS443:3:56:1306:190#0/1
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+HWI-EAS443:3:56:1377:1850#0/1
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+HWI-EAS443:3:56:1424:158#0/1
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GTTGAACTCTTTACCTACTGCTGTGAAGTGTGATTTCATC
+HWI-EAS443:3:56:1432:212#0/1
a_a]^`__aaaa]^`¥^`_W_a]`_]Vaa]^`^^]__Z
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+HWI-EAS443:3:56:144:1228#0/1
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+HWI-EAS443:3:56:1552:855#0/1
a]``aZa`_a_a`a`_Ya_Yaaa`_`^`^a^aYY^`^^^
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+HWI-EAS443:3:56:1559:957#0/1
a`^`[^`^_aX`_`a`WY]T]¥Z_U[ZSW[^^W¥a¥WP]ZW_
@HWI-EAS443:3:56:156:369#0/1
CATAAGTCCCATTTTTGACACTTTCCATGCACGTGTTATC
+HWI-EAS443:3:56:156:369#0/1
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+HWI-EAS443:3:56:1593:1525#0/1
a`_^ba¥`a_aaZ_[R_aaaa_]`^`_^`_[a__^^
@HWI-EAS443:3:56:1622:662#0/1
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+HWI-EAS443:3:56:1622:662#0/1
_^T^abbbabbbab¥`aabbaabb`aa]bbb`abaabaa`
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+HWI-EAS443:3:56:1676:1464#0/1
]`¥ZY¥b`ab_b^aYY_aaY_YZW^Z[`Ya¥aa`XaP^_
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+HWI-EAS443:3:56:1680:812#0/1
X`aab`^abbbba`Z¥_a¥aa`_Z]aU`_^]S[aaba_]`
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+HWI-EAS443:3:56:168:1765#0/1
a`aaaaaab_YX]`^`a`]WZZ[aa0]OZ^`YPXNR]¥Z
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+HWI-EAS443:3:56:168:477#0/1
aaababaaab]aa`aaaaY_b`_`a`^a^b]__`^a^`
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+HWI-EAS443:3:56:1701:596#0/1
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a`baa`bbaabaa`a`aa_a`_a`a]`^`aa`_[]^a^¥W
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]_a`]baaba`^`baba^`a`¥`aa]^]abab`YH¥b]`b
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+HWI-EAS443:3:56:20:919#0/1
abbbba]ab`aaa`abbaabaaab]`abaa_aa¥_H_``
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CCCCTGCTCATTTTGATGGTGATAACCGTACCATCCATCT
+HWI-EAS443:3:56:255:600#0/1
abbaaabbbabaaabaabaWaaaaa_a^aa_a`_]W_``
@HWI-EAS443:3:56:256:1561#0/1
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+HWI-EAS443:3:56:256:1561#0/1
^__`_^`a`^aaaaaaa]T_W__^]Y[Y]]`^a``¥
@HWI-EAS443:3:56:269:1530#0/1
GGGGACATCAAGATACAGCAAGAAGTTCAAGCCGGAAATA

+HWI-EAS443:3:56:269:1530#0/1
aa`a_aaaaaaba_aaaa`aa___]^_a_a_]___``]`
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+HWI-EAS443:3:56:276:419#0/1
aaaaa`_`aaa]a`_`a^`a0]¥V¥`^_YVY]^]__W_V
@HWI-EAS443:3:56:280:1996#0/1
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+HWI-EAS443:3:56:280:1996#0/1
¥[_^ZIbaaab_Yaab^ZO`Y_V[LX`a`Z`Y[[RW¥ZGT
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+HWI-EAS443:3:56:303:408#0/1
aa`abbaaaa`_[a_aW`_`_`a¥aY`_`¥`__`a_^_[^
@HWI-EAS443:3:56:308:1614#0/1
GGGGACATCAAGATACAGCAAGAAGTTCAAGCCGGAAATA
+HWI-EAS443:3:56:308:1614#0/1
`[a^aaaaaaaaaaa`a_aab_a`a^__``]`_a`0`_a_
@HWI-EAS443:3:56:323:184#0/1
TCCACGATTGCAATACAACCTTGTCCAGACACCCAAGGGTGC
+HWI-EAS443:3:56:323:184#0/1
aba^`T_ababaaaab_a`ab`_aa`_aa`_a`a^U__
@HWI-EAS443:3:56:354:1571#0/1
TGCTGGCTGGATCCTGGGAAATCCAGAGTGTGAATCACTC
+HWI-EAS443:3:56:354:1571#0/1
ab_R_aa_]__¥aa]WVa`_____`¥^W^W`_`^`_`R[X
@HWI-EAS443:3:56:373:274#0/1
AGACTTTGTTGGTCAGCACTAGTAGATGGATGGTGAATGC
+HWI-EAS443:3:56:373:274#0/1
aa_aabab_aaa^_ab`[aa`b^^a__baZaa_Yaaa¥`¥
@HWI-EAS443:3:56:382:792#0/1
TTGGACATTTTCCAATTGTGATCGGATGTATATTCTGAAA
+HWI-EAS443:3:56:382:792#0/1
ababaa`aaaa`¥^`_`_Xa^][`¥[``ZT]P¥`P¥PW¥Y
@HWI-EAS443:3:56:384:170#0/1
TAATCGATGAAATCTCCTGGGTAACACGTTCCATTGTCTG
+HWI-EAS443:3:56:384:170#0/1
aaaaabaaaaaa`a`_U`baaZ`_^^_a_V[W_____^^_`
@HWI-EAS443:3:56:387:791#0/1
GGGGACATCAAGATACAGCAAGAAGTTCAAGCCGGAAATA
+HWI-EAS443:3:56:387:791#0/1
a]]a`a`_`^_W`_¥¥_a`_`a`_`_`^OWV^a`^^[^U
@HWI-EAS443:3:56:402:1699#0/1
GATGAAATCTCCTGGGTAACACGTTCCATTGTCTGAACTA
+HWI-EAS443:3:56:402:1699#0/1
`bbabbbaaaaaaaaaaRaa_aa`_aa`_`a_]`_a`^`_`_`
@HWI-EAS443:3:56:406:2007#0/1
ATGGTTTCTCCTGGACATTTGGACTTACAATGCCGAAGTGT
+HWI-EAS443:3:56:406:2007#0/1
`abaa`baabaa^[aaa]YZa_aR[a_aaaXV`a^P`_`^U

@HWI-EAS443:3:56:417:644#0/1
GCCGGTTTCATTGAAGGGGGTGGACAGGGATGGTAGATG
+HWI-EAS443:3:56:417:644#0/1
`aaa_`a_YX`[a[[`Z`aaV]]U]V]a^U[`VV]^S`
@HWI-EAS443:3:56:424:1316#0/1
GAAATGCTGGATCTGGTATTATCATTTCAGATACACCAGT
+HWI-EAS443:3:56:424:1316#0/1
^`b`[D]aa_`aaabaT`aab`_baaaaaab_X¥aaa`aY
@HWI-EAS443:3:56:435:1275#0/1
GAATCACTCTCCACAGCAAGCTCATGGTCCTACATTGTGG
+HWI-EAS443:3:56:435:1275#0/1
abbbVbbZP]a^`__aa`¥`^`__]]____]]^W¥_Z`^
@HWI-EAS443:3:56:513:1573#0/1
CAAAAACATATGCATCTGCATTCTGATAGAGACTTTGTTG
+HWI-EAS443:3:56:513:1573#0/1
a`_b`bbbaa]aabb`¥ba_aaY¥``aa¥¥^Z[_aI_]`
@HWI-EAS443:3:56:515:1177#0/1
GCTGGCTGGATCCTGGGAAATCCAGAGTGTGAATCACTCT
+HWI-EAS443:3:56:515:1177#0/1
^a¥____`^_QN`]¥W_`^`aaaZWXRVTEMX_]`[_WQVOT
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ATTGAAGGGGGTGGACAGGGATGGTAGATGGATGGTACG
+HWI-EAS443:3:56:615:172#0/1
Vb^`¥ab`b^ab]baXX]VXa`aaa_`^V`aXXaaZ`Xa
@HWI-EAS443:3:56:634:633#0/1
CCGGCTTGAACCTTGCTGTATCTTGATGTCCCCACAAA
+HWI-EAS443:3:56:634:633#0/1
abaab`aX^]`b]_`^^`_aa`a`_]`_]`a`^
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GTATCTTGATGTCCCCACAAAACATATGCATCTGCATTC
+HWI-EAS443:3:56:658:981#0/1
aaabaaaabaaa_a`a`_aaaa`aaaa`_a``_aa_`a`_
@HWI-EAS443:3:56:66:1592#0/1
GCTTCCTCTGAGTATTTGGGTAGTCATAAGTCCCATTTT
+HWI-EAS443:3:56:66:1592#0/1
aaa¥[Xa¥W¥^Ua__a_¥Y_Y[YO¥Y_^^^[]NZa]U_
@HWI-EAS443:3:56:679:188#0/1
TGTGGGACATCAAGATACAGCAAGAAGTTCAAGCCGGAA
+HWI-EAS443:3:56:679:188#0/1
^aTb`Y`a^`]aY_abHZ[¥``¥Y`]P`[¥Waaa^_a^`_
@HWI-EAS443:3:56:680:339#0/1
GGGAAATCCAGAGTGTGAATCACTCTCCACAGCAAGCTCA
+HWI-EAS443:3:56:680:339#0/1
a`^`^Xabab`ab_bZaaaaa``_aa`a_aa^__`^YRV
@HWI-EAS443:3:56:691:1187#0/1
CTAGATTTCCAGTTGCTTGAATGTTATTTTGTCTCCCGG
+HWI-EAS443:3:56:691:1187#0/1
abbbabaab`b¥]bb``b]aaa^X[bbbaa[¥aaaaaa
@HWI-EAS443:3:56:711:1167#0/1
AAATCCTACATTAATGATAAAGGGAAAGAAGTCCCTCGTGC

+HWI-EAS443:3:56:711:1167#0/1
R`¥]Xaa`YR`a¥Q`a`X`¥Z¥_]Paaa]_bYZHWY_]]]
@HWI-EAS443:3:56:722:1499#0/1
ACTTTCCATGCACGTGTTATCGCATTGTGGTAAAATTCA
+HWI-EAS443:3:56:722:1499#0/1
a[^aaabb^¥`_X_X[[V`aZV`^^_]ZXZVF__a_`[T_
@HWI-EAS443:3:56:758:1526#0/1
TTCATCGATTATGAGGAGCTAAGAGAGCAATTGAGCTCAG
+HWI-EAS443:3:56:758:1526#0/1
a`aa`a`XabZa`_¥RW^`aZ[^]¥OWX]X_^a_[T]]]_
@HWI-EAS443:3:56:780:1004#0/1
CGTCAATGGCATTCTGTGTGCTCTTCAGGTCGGCTGCATA
+HWI-EAS443:3:56:780:1004#0/1
`X^_YU¥[F[a`T[`W^¥XTURR]VYRYXYaa_MH¥LORa
@HWI-EAS443:3:56:782:1592#0/1
GATATTCCCAAGACAAGTTCATGGCCCAATCATGACTCG
+HWI-EAS443:3:56:782:1592#0/1
¥¥bY^b¥baab`ba``ab]^¥^VYY]VZaWTV¥¥``][S[
@HWI-EAS443:3:56:801:234#0/1
GACAAGTTGTATTGCAATCGTGGACTGGTGTATCTGAAAT
+HWI-EAS443:3:56:801:234#0/1
a`_`Za`aa^`____]a]a_`_]]]X^`_X`Y¥`]]_YZ]_
@HWI-EAS443:3:56:871:1031#0/1
GCACGTGTTATCGCATTGTGGTAAAATTCAAAGCAGCCG
+HWI-EAS443:3:56:871:1031#0/1
abaaba`]aaabb`abab`[`aZbaaaaaaaaaa¥`aY[`
@HWI-EAS443:3:56:900:237#0/1
GCTGGCTGGATCCTGGGAAATCCAGAGTGTGAATCACTCT
+HWI-EAS443:3:56:900:237#0/1
abaaa_aa_FWaa_]a_[aaa¥[``U`QaUa¥`^U[[[WZ
@HWI-EAS443:3:56:921:245#0/1
CAGGATATGCAGCCGACCTGAAGAGCACACAGAATGCCAT
+HWI-EAS443:3:56:921:245#0/1
aa¥`abbbbaab[abbTab¥`aa_b_a^aaaa_b_a_`aa
@HWI-EAS443:3:56:957:1254#0/1
AAGTCCTCGTGCTATGGGGCATTACCATCCATCTACTAG
+HWI-EAS443:3:56:957:1254#0/1
aba`aaa_b`aaa`aa`aa[aa`a`Ya`_Z]a^aa__`_
@HWI-EAS443:3:56:977:1926#0/1
AGCACATCCAGAACTGATTGCCCCAGGGAGACTACCAG
+HWI-EAS443:3:56:977:1926#0/1
_[_aab``aaaaa`][aa¥¥a]P¥__[ZMP]¥_¥¥__T`_
@HWI-EAS443:3:56:98:1254#0/1
AGCTTTTTGCTCCAGCATGAGGACATGCTGCCGTTACACC
+HWI-EAS443:3:56:98:1254#0/1
Z]¥W_bYbU`Z¥0_OHTR¥M¥SWa]a¥OT`_aUHXGX`¥P
@HWI-EAS443:3:57:1034:128#0/1
GCCAAGGAAATTGGAAACGGCTGCTTTGAATTTTACCACA
+HWI-EAS443:3:57:1034:128#0/1
abaa_bba`b`aaa_aa_aa¥`aPX_aUNNX]aaNNO]OB

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TAACATTGCTGGCTGGATCCTGGGAAATCCAGAGTGTGAA
+HWI-EAS443:3:57:1115:505#0/1
aa^USWb^`abaSbbbV`ZPX^_YZWa_ML[a[_N`LXV]
@HWI-EAS443:3:57:1120:1737#0/1
ATCAGAATGCAGATGCATATGTTTTGTGGGGACATCAAG
+HWI-EAS443:3:57:1120:1737#0/1
^^b^UOXR`Y¥_Y[¥Z_^X[^ [RS^ZVUV^[Y[QZ]VZW[
@HWI-EAS443:3:57:112:1112#0/1
GTGGGGACATCAAGATACAGCAAGAAGTTCAAGCCGGAAA
+HWI-EAS443:3:57:112:1112#0/1
_N¥W¥¥X_V[]YQa[R_a`SP_¥_^¥XXU^aWQQMUW]VQ
@HWI-EAS443:3:57:1140:1089#0/1
AAATACATATTCTACACTGTAGAGACCCATTAGAGCACAT
+HWI-EAS443:3:57:1140:1089#0/1
abbbbbbbbbbbabb`babbabaa`b`_`aaaa`a_`a]aa
@HWI-EAS443:3:57:1152:1072#0/1
GAATGCATATCTCGGTACCACTAGATTTCCAGTTGCTTCG
+HWI-EAS443:3:57:1152:1072#0/1
U`bWV_Vb¥^¥^¥ba____]YP`^a]¥baWY^ab¥`Yab`b
@HWI-EAS443:3:57:1166:1864#0/1
AGCTCCTCATAATCGATGAAATCTCCTGGGTAACACGTTC
+HWI-EAS443:3:57:1166:1864#0/1
a_`VY^aa_baaJ`_^a`^a__`QT__X_G_^Z_0]_`W
@HWI-EAS443:3:57:1173:352#0/1
CTCGTCAATGGCATTCTGTGTGCTCTCAGGTCGGCTGCA
+HWI-EAS443:3:57:1173:352#0/1
`babbbb``bb``bbabbaaab]baaa_babUZbb^[b__
@HWI-EAS443:3:57:118:1971#0/1
TTCTGTGTGCTCTCAGGTCGGCTGCATATCCTGACCCCT
+HWI-EAS443:3:57:118:1971#0/1
aUHVRLUS``¥¥QaYa_^Q_VH¥ZW]^T_PZZUVPiZ¥BB
@HWI-EAS443:3:57:1358:571#0/1
CTCCTCATAATCGATGAAATCTCCTGGGTAACACGTTC
+HWI-EAS443:3:57:1358:571#0/1
aaKZabb]aV_ba[]ZZaa[]]V`ba]Z]UYb_b__KG¥
@HWI-EAS443:3:57:1359:492#0/1
GGCTAGTTAAAAAAGGAAATTCATACCCAAAGCTCAGCAA
+HWI-EAS443:3:57:1359:492#0/1
^_U_baW^a`[¥baaaaba]``a``¥X_aaa]NW¥``^aa
@HWI-EAS443:3:57:1370:748#0/1
AAAAAGCACAAAATTGAGACTGGCCACAGGATTGAGGAAT
+HWI-EAS443:3:57:1370:748#0/1
`aaa__`a_a_^`aaaa``_a`_V¥]ZMW_GVaRTX¥N^Y
@HWI-EAS443:3:57:1488:270#0/1
ATATCCCCAAGACAAGTTCATGGCCCAATCATGACTCGA
+HWI-EAS443:3:57:1488:270#0/1
`babaaaaX`aa`a__Q^]¥YWV[ZZT]]VaaaaGSTaZ
@HWI-EAS443:3:57:1495:192#0/1
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+HWI-EAS443:3:57:1495:192#0/1
Z_^^_ZaR¥b`Pb]]__X^X]]TPV^PR]¥LXYVWVRSW
@HWI-EAS443:3:57:1497:505#0/1
CTCAAACCTTTCAAATGATGACACTGAGCTCAATTGCTCT
+HWI-EAS443:3:57:1497:505#0/1
aaaaaaaa_aa_ab]ba]_aaaa`a`]]`Vaa¥`]Y_]a
@HWI-EAS443:3:57:1507:1582#0/1
ATCTGCATTCTGATAGAGACTTTGTTGGTCAGCACTAGTA
+HWI-EAS443:3:57:1507:1582#0/1
ab_a`aaa^aba_a_a_a^Xa`aaY`YaVZ^_U[]a_]V_
@HWI-EAS443:3:57:1556:144#0/1
AGCCGGGAGACAAAATAACATTCTGAAGCAACTGGAAATCT
+HWI-EAS443:3:57:1556:144#0/1
^^_Q]b_V_XV¥Z¥¥_NUZQ[````_aa^[]YYPX[]ZYB
@HWI-EAS443:3:57:1561:1111#0/1
ATTCTGTGTGCTCTTCAGGTCGGCTGCATATCCTGACCCC
+HWI-EAS443:3:57:1561:1111#0/1
a]_La``bWU_b`a`¥`_`[``a_a]NP]_aa_Wa_]¥]
@HWI-EAS443:3:57:1615:855#0/1
GAGCTCAATTGCTCTCTTAGCTCCTCATAATCGATGAAAT
+HWI-EAS443:3:57:1615:855#0/1
¥V[VRI¥Z[````Y^M[`XW]`OZ_NS¥]]]OQV][SBBB
@HWI-EAS443:3:57:1615:997#0/1
TGCTGAGCTTTGGGTATGAATTCCTTTTTTAACTAGCCA
+HWI-EAS443:3:57:1615:997#0/1
ab_b¥Q_abbabab^abaaabaa__aaaaba`a^a``_¥a
@HWI-EAS443:3:57:1660:111#0/1
GGCTGGATCCTGGGAAATCCAGAGTGTGAATCACTCTCCA
+HWI-EAS443:3:57:1660:111#0/1
`_bbbbbaaaaZ_b_bbb_^aaaa_b`a^ab__^a^``U¥
@HWI-EAS443:3:57:1680:715#0/1
GAAATTCATACCCAAAGCTCAGCAAATCCTACATTAATGA
+HWI-EAS443:3:57:1680:715#0/1
^aZ^aaaba``abaa`〕`_WVbYZVaVZ[^][a`a_]_X_
@HWI-EAS443:3:57:171:582#0/1
CTGGCTGGATCCTGGGAAATCCAGAGTGTGAATCACTCTC
+HWI-EAS443:3:57:171:582#0/1
abaaa`aaa`a`¥_aa_]_____^_W_W`_`_^^^Z¥¥¥
@HWI-EAS443:3:57:1721:1604#0/1
GCTGGCTGGATCCTGGGAAATCCAGAGTGTGAATCACTCT
+HWI-EAS443:3:57:1721:1604#0/1
a`aaaaaa]U[¥_¥a]^X^^`VT]`¥¥NW¥__^VU]W¥UW
@HWI-EAS443:3:57:207:1502#0/1
ATTTTGTCTCCCGCTCTACTAGTGTCCAGTAATAGTTCA
+HWI-EAS443:3:57:207:1502#0/1
^a`]^b`bab^^`Z_a]]WWNLRJWNY¥P]Y[YYYRETBB
@HWI-EAS443:3:57:241:219#0/1
GCCGGTTTCATTGAAGGGGGTGGACAGGGATGGTAGATG
+HWI-EAS443:3:57:241:219#0/1
a]aaa¥a`aW`aaU¥aa`¥`_S_¥¥¥Wa¥^W¥`PLL¥WW^

@HWI-EAS443:3:57:259:1386#0/1
GAATTTACTTTGTTAGTAATCTCGTCAATGGCATTCTGTG
+HWI-EAS443:3:57:259:1386#0/1
R]bbbabbbb`_^b`bbbbbabX`^a`baba_bba_`a
@HWI-EAS443:3:57:266:1700#0/1
TTGGCATTGTTTTTAACTGGCTTCTTACCTTTTCATATA
+HWI-EAS443:3:57:266:1700#0/1
a¥a_V[ZOUT[Y`XT][S^^]LWR¥a¥BBBBBBBBBBBB
@HWI-EAS443:3:57:270:1693#0/1
AAACACCAGCCTCCATTTCAGAATATACATCCGATCACA
+HWI-EAS443:3:57:270:1693#0/1
a``a`aa^`_`___`aa`]``a^`_`^_a_^`__^W_U_
@HWI-EAS443:3:57:299:159#0/1
AATCGATGAAATCTCCTGGGTAACACGTTCCATTGTCTGA
+HWI-EAS443:3:57:299:159#0/1
abaabaaa_a_`aa__^aa_`¥XZ¥^]`^]__¥]__W
@HWI-EAS443:3:57:31:305#0/1
TGCATATCTCGGTACCACTAGATTTCCAGTTGCTTCGAAT
+HWI-EAS443:3:57:31:305#0/1
abbbb]bbabaa_baaaa`aba`aa_]aZaa__`^_`_`
@HWI-EAS443:3:57:328:380#0/1
ATTAGAGCACATCCAGAACTGATTGCCCCAGGGAGACT
+HWI-EAS443:3:57:328:380#0/1
[aaab`a`Uaaaabaaaa`aaaa`_aa[a`a[_a¥V``_¥
@HWI-EAS443:3:57:330:1742#0/1
CTAGTGCTGACCAACAAAGTCTCTATCAGAATGCAGATGC
+HWI-EAS443:3:57:330:1742#0/1
abb]`bbbabbbb`ababbb`bbbbaaZa`_aba
@HWI-EAS443:3:57:39:821#0/1
GCTGGATCTGGTATTATCATTTCAGATACACCAGTCCACG
+HWI-EAS443:3:57:39:821#0/1
abba_V`b`bb`X`aaab_bbaabbababa¥^a`aaa`b
@HWI-EAS443:3:57:415:136#0/1
GGGGTGGACAGGGATGGTAGATGGATGGTACGGTTATCAC
+HWI-EAS443:3:57:415:136#0/1
aabbYaa_Z^``U^¥`G^`¥W][WZaUW¥W[^WZTNBBB
@HWI-EAS443:3:57:444:52#0/1
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+HWI-EAS443:3:57:444:52#0/1
S^]W_____^aUPY¥^Z[_^WOY^00]_NZU^[[Z¥ZYBBB
@HWI-EAS443:3:57:461:168#0/1
CACCATCAAAATGAGCAGGGGTCAGGATATGCAGCCGACC
+HWI-EAS443:3:57:461:168#0/1
^a_abb`_Wabbb_aaabab¥¥`baa]a]`XT¥^¥]Xa^
@HWI-EAS443:3:57:506:1440#0/1
ATCAGAATGCAGATGCATATGTTTTTGTGGGACATCAAG
+HWI-EAS443:3:57:506:1440#0/1
abbbaa``babaaa`aaaab]aaaa]a_]`^a_aa^aaa
@HWI-EAS443:3:57:514:78#0/1
CTTCTCTGAGTATTTTGGGTAGTCATAAGTCCCATTTTT

+HWI-EAS443:3:57:514:78#0/1
abbabbbabbaa¥bbbbbbab_aaaaabaab_b` `abbbab
@HWI-EAS443:3:57:520:1944#0/1
CTTGATGTCCCCACAAAAACATATGCATCTGCATTCTGAT
+HWI-EAS443:3:57:520:1944#0/1
a_a`]YZN]aaaa^^ab[`aaZRZ^][¥` `][Y` a]_
@HWI-EAS443:3:57:520:842#0/1
GGCTGCTTTGAATTTTACCACAAATGCGATAACACGTGCA
+HWI-EAS443:3:57:520:842#0/1
`aabba` ab]aaaba` aaba_]a` Z`]Z^____ `]a]_YX
@HWI-EAS443:3:57:548:813#0/1
GGTGTCTGACAAGTTGTATTGCAATCGTGGACTGGTGTAT
+HWI-EAS443:3:57:548:813#0/1
a_N]S[SOS¥SVYYW]` [[[_] `¥[^J¥OQTS]WGYLW]
@HWI-EAS443:3:57:553:380#0/1
ATTCTGTGTCTTTCAGGTCGGCTGCATATCCTGACCCC
+HWI-EAS443:3:57:553:380#0/1
abbaaa_abaabaaaaa__Z`aa_`a]a^b][Y¥^Z^^__
@HWI-EAS443:3:57:577:627#0/1
CTTTGGGTCTTATTGCTATTTCCGGCTTGAACCTTCTTGCT
+HWI-EAS443:3:57:577:627#0/1
]bbbbbb`_bbbb^`^abbbab` ``aaaba` `a`_]`aaaa
@HWI-EAS443:3:57:600:26#0/1
GCTGGCTGGATCCTGGGAAATCCAGAGTGTGAATCACTCT
+HWI-EAS443:3:57:600:26#0/1
aaaaa^aaaQZU`Y^_`U^¥^[YXZS]U_W^UVVTUUUVU
@HWI-EAS443:3:57:613:582#0/1
CATCTTTTCAATAACAGAATTTACTTTGTTAGTAATCTCG
+HWI-EAS443:3:57:613:582#0/1
a`aaaabaa^aaaa`aa`aaa`a`a` `a`_`aa]` ``^`_a
@HWI-EAS443:3:57:643:1499#0/1
CAGAATTTACTTTGTTAGTAATCTCGTCAATGGCATTCTG
+HWI-EAS443:3:57:643:1499#0/1
`ab_aaaa^_aaa__a` `Y____ ` `^`¥^]_`^`¥^__^]^^
@HWI-EAS443:3:57:702:519#0/1
GCTTCCTCTGAGTATTTTGGGTAGTCATAAGTCCCATTTT
+HWI-EAS443:3:57:702:519#0/1
aaa`] ^a` ababSaaaaaaaaZ_aZ` `]aaaUaZaaaa` a
@HWI-EAS443:3:57:703:876#0/1
GTGAAGAACTTATATGAAAAGTAAGAAGCCAGTTAAAAA
+HWI-EAS443:3:57:703:876#0/1
aWa_ab____ `a_aabaYaa¥a` ^a`_a` `a_aa` ____]Y]
@HWI-EAS443:3:57:759:790#0/1
TAGAGACTTTGTTGGTCAGCACTAGTAGATGGATGGTGAA
+HWI-EAS443:3:57:759:790#0/1
^a_W[SU_¥`_0[V_]SZZ` `U` ¥ZH^_[X_YU_]XX` ^]
@HWI-EAS443:3:57:765:726#0/1
TTGCTATTTCCGGCTTGAACCTTCTTGCTGTATCTTGATGT
+HWI-EAS443:3:57:765:726#0/1
ab`aabbbbabbaaab]GYaY_aa[aaaaa[] ` _aa^[[` _

@HWI-EAS443:3:57:772:674#0/1
AGGAAATTCATACCCAAAGCTCAGCAAATCCTACATTAAT
+HWI-EAS443:3:57:772:674#0/1
aaaa¥aaaaaaaa`baa__`_`a__`a`_`_`_`^`a_^_a
@HWI-EAS443:3:57:797:208#0/1
TGGGGCATTACCATCCATCTACTAGTGCTGACCAACAAA
+HWI-EAS443:3:57:797:208#0/1
aaaaaaaaaaaa`_aa`_`a]aa_a_a^a`_a`^Z`_X__^
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+HWI-EAS443:3:57:820:190#0/1
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TCACCATCCATCTACTAGTGCTGACCAACAAAGTCTCTAT
+HWI-EAS443:3:57:854:201#0/1
abb`¥`Wa]aaa^aZQ]b^a`aa`¥`]`Q^`aaXT¥R_`]
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+HWI-EAS443:3:57:861:1400#0/1
`ba`^aba^aa`Z_a`ab^aaaaaa^aaabaa__aa`_a
@HWI-EAS443:3:57:871:990#0/1
GATCGGATGTATATTCTGAAATGGGAGGCTGGTGTTTATA
+HWI-EAS443:3:57:871:990#0/1
^^bb_WX_aWLW[V^Y_Z]VOZWZZJ¥Y^`__TOR¥_aBB
@HWI-EAS443:3:57:874:1257#0/1
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+HWI-EAS443:3:57:874:1257#0/1
a][W`aaa_aa_a`aaa`_]¥_ZSZ^Ga`U_aXX`_^__
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ATCCCCCAAGACAAGTTCATGGCCCAATCATGACTCGAAC
+HWI-EAS443:3:57:930:568#0/1
N]]SSSS`Wa¥VWa`aa_V¥V_G_Xaa[Y]YGFUW[aBB
@HWI-EAS443:3:57:962:938#0/1
GAAGCCAGTTAAAAACAATGCCAAGGAAATTGGAAACGG
+HWI-EAS443:3:57:962:938#0/1
aba¥`_`aa`a_a^a^^)`aa`_`__aa^][__`]__]]_B
@HWI-EAS443:3:57:966:1389#0/1
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+HWI-EAS443:3:57:966:1389#0/1
]`aaabbbbbaaaa^`aaa`_aa]a^`_a_a`_]`_`a__
@HWI-EAS443:3:57:988:148#0/1
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+HWI-EAS443:3:57:988:148#0/1
a_N¥baaaaa]aaa)`a_aZ¥`_TaT`_^`a_`]_____T_
@HWI-EAS443:3:58:1019:340#0/1
CGGCTCTACTAGTGCCAGTAATAGTTCATTCTCCCTTCT
+HWI-EAS443:3:58:1019:340#0/1
]_¥`_¥ZS[¥`a]aW_¥U_WSWRVaJZ¥^`aaaWZaa`]U
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+HWI-EAS443:3:58:1124:1641#0/1
a_`W`¥R^TJV¥PZ¥[RNY[LLL[YQXW^U^YUSPQRUUQ
@HWI-EAS443:3:58:1154:1070#0/1
ATGACACTGAGCTCAATTGCTCTCTTAGCTCCTCATAATC
+HWI-EAS443:3:58:1154:1070#0/1
`_`^^^Ya`_P¥ZY`^W`_Q]]X`^a_XVLW``¥^^T]R
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CGTGGTAGTCCAAAGTTCTTTTCATTTTCCAATAGAACCAA
+HWI-EAS443:3:58:1173:382#0/1
`b`_¥¥bb`^a`a_a]ba`ab[`bbbaaaaa`aaaa[a`
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+HWI-EAS443:3:58:1203:1225#0/1
W`UKa^a_]bbb`]a_aa]`U`Saaaa^aaa][`^Q`a
@HWI-EAS443:3:58:1222:1623#0/1
GCTGGCTGGATCCTGGGAAATCCAGAGTGTGAATCACTCT
+HWI-EAS443:3:58:1222:1623#0/1
aaa_`_`a`[VW`¥V]`_`_¥U^^^¥_S_W__¥WR[¥¥QV
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+HWI-EAS443:3:58:1274:771#0/1
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+HWI-EAS443:3:58:1279:1759#0/1
aaaaa_ab]Sa`aa_XX_a`_`^_V`a¥^`WVa[]]a¥_
@HWI-EAS443:3:58:132:1026#0/1
GTAGTCATAAGTCCCATTTTTGACACTTTCCATGCACGTG
+HWI-EAS443:3:58:132:1026#0/1
[XaaN_aT[YX]`[Z`S¥aY`SWPTR[¥`WP]__GK¥RGX
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+HWI-EAS443:3:58:1376:615#0/1
Za]b[b¥ZZaaaab`_a]aYb_a^¥aa`Q]`V]aZ_Y```
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+HWI-EAS443:3:58:1402:1758#0/1
^_b`_aaabaaababa]Ua^``aaa[]a`a`_]Va_aTaa
@HWI-EAS443:3:58:1408:666#0/1
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+HWI-EAS443:3:58:1408:666#0/1
`bbbab^bbabbba`b`Q¥aS¥^_a`[^`_a^aZ]Q^aab
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+HWI-EAS443:3:58:1440:1358#0/1
[_`XZa_HWZ_S`_UO_Z]XOTUTT¥_`_]a]`VNXW`SYH

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+HWI-EAS443:3:58:14:890#0/1
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+HWI-EAS443:3:58:1525:294#0/1
a[[Y[Sa[¥NaUaUQ_[[TW[X¥[¥UY]NZQZ[UWWWWQU
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+HWI-EAS443:3:58:1548:1650#0/1
aWba¥]a_YDUYZZQY_TX_¥[^OXVYLTX_Y¥ZTY_YLW
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+HWI-EAS443:3:58:1564:243#0/1
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+HWI-EAS443:3:58:1572:810#0/1
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+HWI-EAS443:3:58:1587:888#0/1
aaaa`baaaaaab_aaaa`aa^a`aaaa__a^__`M^
@HWI-EAS443:3:58:1643:628#0/1
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+HWI-EAS443:3:58:1643:628#0/1
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@HWI-EAS443:3:58:1713:1985#0/1
AGAAGTCCTCGTGCTATGGGGCATTACCATCCATCTACT
+HWI-EAS443:3:58:1713:1985#0/1
aaa_Z¥]Y¥T]_`R^_^_[[]]_`ZX__U`]][_TZ^`Y]
@HWI-EAS443:3:58:171:1137#0/1
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+HWI-EAS443:3:58:171:1137#0/1
^Y_a^[a_X^`Z_Xaaabaaaab`^[_aa`]T^_Y[Z[___
@HWI-EAS443:3:58:1735:347#0/1
GAACGTGTTACCCAGGAGATTTTCATCGATTATGAGGAGCT
+HWI-EAS443:3:58:1735:347#0/1
a¥`Ya¥`¥¥TRVY_S¥]aWZ`_`¥^W[YYZUa_]`][XOV
@HWI-EAS443:3:58:1745:631#0/1
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+HWI-EAS443:3:58:1745:631#0/1
aabbaababbab`aaabaaaa¥_`^_aaaaa]_¥_¥aaa`
@HWI-EAS443:3:58:1750:873#0/1
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+HWI-EAS443:3:58:1750:873#0/1
Y`b]`bbbaba^Ua]SZ¥]`a[X`ZN¥ZYX^a][¥W`_
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+HWI-EAS443:3:58:1757:1882#0/1
`b^bbababaaaaaba`a`aaa__a`a_aa^a^^a]^_^
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+HWI-EAS443:3:58:1771:675#0/1
aa`aaaaa`^aaaaa_[_`_`aa^^___`aaX`^Z_]_^
@HWI-EAS443:3:58:1776:139#0/1
GATTGCCCCAGGGAGACTACCAGTACCAATGAACTGGCG
+HWI-EAS443:3:58:1776:139#0/1
abb`a`_aa[`a`^`a]V¥a^__`_¥YW`_Y`¥¥LY^WZa
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@HWI-EAS443:3:58:189:889#0/1
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+HWI-EAS443:3:58:189:889#0/1
`baaabba_]`^aaababbaabaaab^aabaaa_aa^a``_`
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+HWI-EAS443:3:58:229:413#0/1
aaabb`abV¥```b`_a`_a_]ab`])`a_aa`^`[X`_`X
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+HWI-EAS443:3:58:277:986#0/1
`YZa`aaaba``aaaaa^a`_[W[a__`_`_`_`a^^__`
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+HWI-EAS443:3:58:281:1250#0/1
aabaabbbbab`abaaaaa^aa__aaa`a]`^]aaa`a
@HWI-EAS443:3:58:297:921#0/1
GGAGATTTTCATCGATTATGAGGAGCTAAGAGAGCAATTGA
+HWI-EAS443:3:58:297:921#0/1
^]Y_PZUZ^W^YSOXZRY[QWRW_XZ^SRM[W[]YXWYY¥
@HWI-EAS443:3:58:308:766#0/1
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+HWI-EAS443:3:58:308:766#0/1
abb`abbab`aaa]aaaa_baa_a`_^_adV]Z^^`_a`_`
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GGGAGGCTGGTGTATAGCACCCCTTGGGTGTCTGACAAG
+HWI-EAS443:3:58:318:660#0/1
`ab[bbabaa^bababaa`a`Z¥a^`Y`¥Z```X¥`_[`
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+HWI-EAS443:3:58:326:665#0/1
aabaa`a`aababba``^b``¥``a^a[¥``a¥^````_`_`
@HWI-EAS443:3:58:361:1210#0/1
GCCGGTTTCATTGAAGGGGGGTGGACAGGGATGGTAGATG
+HWI-EAS443:3:58:361:1210#0/1
^]_`aPa]ZY`YY^N_aaa__RV]PO`_[RV¥_[WZZPSN

@HWI-EAS443:3:58:411:1321#0/1
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+HWI-EAS443:3:58:411:1321#0/1
aa¥Z^`a``_ZYVY[W`U¥_ZO^OVWNSLU[JVUOM]_U¥
@HWI-EAS443:3:58:439:171#0/1
GTTTAATTTTCTTCCTCTGAGTATTTTGGGTAGTCATAA
+HWI-EAS443:3:58:439:171#0/1
a]a`__a```_^__¥]`^`a^`Z^]`^`_a__YY_YY[[[]Y
@HWI-EAS443:3:58:468:916#0/1
TCACCATCCATCTACTAGTGCTGACCAACAAAGTCTCTAT
+HWI-EAS443:3:58:468:916#0/1
aba`aa`abaabaaaa^a_a`aaaa¥`a`aa¥^Y_aa`a`
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+HWI-EAS443:3:58:497:736#0/1
aaaaaa_]_]aabaaaaa`]aa`a`_a_b`_a`a``__¥
@HWI-EAS443:3:58:511:942#0/1
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+HWI-EAS443:3:58:511:942#0/1
aaaa``baaabba_abaa```V`_`¥`a^`_aa`Wa___a
@HWI-EAS443:3:58:522:899#0/1
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+HWI-EAS443:3:58:522:899#0/1
aaa_aaY[¥``aX]aa___^V^`^^X^]_]T^]^^][^]Y
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+HWI-EAS443:3:58:52:182#0/1
a`aabba_`^¥a``Y[F[]UVa¥_R[TVURR^VPTWWW[N
@HWI-EAS443:3:58:595:781#0/1
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+HWI-EAS443:3:58:595:781#0/1
^X``aaaa``_a_a]Yaaa¥a_]Y¥[]_a`_`_]`_____`
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+HWI-EAS443:3:58:666:803#0/1
a^aa`^baaa`]__^_aaa`_a`_`_`_`_]_]_^____^_
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GTGGGGACATCAAGATACAGCAAGAAGTTCAAGCCGGAAA
+HWI-EAS443:3:58:706:1103#0/1
a___`aa_aa___aa___aa___a__^a]^_a``Z_a___a
@HWI-EAS443:3:58:717:663#0/1
GACAATGGAACGTGTTACCCAGGAGATTTTCATCGATTATG
+HWI-EAS443:3:58:717:663#0/1
]¥_XZa`aa`Z`_¥S_Y`^^VZNX_]Q]a`¥_VS^ZYX]]
@HWI-EAS443:3:58:740:974#0/1
GCTGTATCTTGATGTCCCCACAAAACATATGCATCTGCA
+HWI-EAS443:3:58:740:974#0/1
a`_bWa[[a`_V^_S]]VWU___Z¥WU]U^^¥^^X_¥¥Y
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+HWI-EAS443:3:58:753:234#0/1
a_]_aa^U]V_`^X¥^W^aW^_`]^V^`[W_``ZV[UMS_
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+HWI-EAS443:3:58:757:1453#0/1
aba_a_ab`aa__aa`aaa_`aa_]_a_^`a_^`a¥aY`¥
@HWI-EAS443:3:58:763:1042#0/1
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+HWI-EAS443:3:58:763:1042#0/1
`¥]^`[^`^a_`_`_a_`_]W]^`^U]^ZV``¥X^WT
@HWI-EAS443:3:58:794:565#0/1
ATTCACACTCTGGATTTCCAGGATCCAGCCAGCAATGTT
+HWI-EAS443:3:58:794:565#0/1
aaaaaa^]aaaaa`a`a_a``aa__`___`Z`_[Z¥]_[W
@HWI-EAS443:3:58:796:1409#0/1
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+HWI-EAS443:3:58:796:1409#0/1
]bbbR¥^a_¥X^Y_Z`ba¥^`__aW_a^^a``¥]]`U[
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+HWI-EAS443:3:58:835:412#0/1
aa`[M^VVaa[`¥`_`_aZ_aaZ^^X_X]_^QGa_OVSZ__
@HWI-EAS443:3:58:887:1041#0/1
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+HWI-EAS443:3:58:887:1041#0/1
aaa`abbaabbabaaaaaa`aaaa`a`a`a`a_a``aaa_
@HWI-EAS443:3:58:8:317#0/1
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+HWI-EAS443:3:58:8:317#0/1
a_aabb`aa_a]aaa_a`aaaaa``aX^Wa`aST``_]_
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+HWI-EAS443:3:58:901:692#0/1
aaaa__`aaSaX``¥a^[_V[ZZVL^`_^]X[U[___^¥
@HWI-EAS443:3:58:906:79#0/1
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+HWI-EAS443:3:58:906:79#0/1
abaaaa`_b_aa^_a_ab^aaa`aZaa`_]_^_X^]_^
@HWI-EAS443:3:58:917:1272#0/1
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+HWI-EAS443:3:58:917:1272#0/1
a_aSa]a`aaa¥aaZ_aaa]_aZ`_a`U`_`^`S__ZWa
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+HWI-EAS443:3:58:91:1000#0/1
aabaaabb`aaba`Z]abb¥`aaa_a`a`a__a[_]a`__
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+HWI-EAS443:3:58:947:1455#0/1
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+HWI-EAS443:3:58:976:1226#0/1
a_¥T[`__¥_]a]]_`^````]_aa`X¥VW_a_ZZT`_]__
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+HWI-EAS443:3:59:1025:423#0/1
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@HWI-EAS443:3:59:1053:1098#0/1
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+HWI-EAS443:3:59:1053:1098#0/1
a^¥SSabaSa]0ZVP_b^P^R_^_TS`aQSQGU^_TT_¥N
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+HWI-EAS443:3:59:1073:768#0/1
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@HWI-EAS443:3:59:1152:1457#0/1
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+HWI-EAS443:3:59:1152:1457#0/1
`aaa_bb`bababaabbbbaabbbbabaaa_a```0_a]
@HWI-EAS443:3:59:1172:946#0/1
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+HWI-EAS443:3:59:1172:946#0/1
^^`Za]aaa`_¥LW``a^aaaZa[X¥_]ZXZUWRRS```]
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+HWI-EAS443:3:59:1187:199#0/1
abbbb`bb`ba_bbaaba`abababZa_abaW^^`NN_^^
@HWI-EAS443:3:59:1210:1240#0/1
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+HWI-EAS443:3:59:1210:1240#0/1
^a__`bbba_aababb_bb^^^aY`]bab^T`_^Ra_a
@HWI-EAS443:3:59:1227:1797#0/1
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+HWI-EAS443:3:59:1227:1797#0/1
aa_aabababb`bb`^b`bbbbbbaabSa`_]Y]PU
@HWI-EAS443:3:59:1384:1716#0/1
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+HWI-EAS443:3:59:1384:1716#0/1
_]`U_a```_¥¥]_a___a``_aab`_aaaW]aVY^aX^
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+HWI-EAS443:3:59:1418:1432#0/1
^bba^bba`aaaba`baaaa^`a_bba_b`¥^`aP^a__
@HWI-EAS443:3:59:1478:989#0/1
GAGTGATTCACACTCTGGATTTCCAGGATCCAGCCAGCA
+HWI-EAS443:3:59:1478:989#0/1
^WMEUGYNR[[VNYT]```SLQQVY[H^_N]_PUYQLTLNQ
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+HWI-EAS443:3:59:1492:1165#0/1
`b¥a_bbb`aXabbaa^_a]aaabaaaa__PQ`]PKK^_U
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AGCACGAGGACTTCTTTCCCTTATCATTAAATGTAGGATT
+HWI-EAS443:3:59:1537:1918#0/1
¥bb¥a_^¥^`ab_aabaXXa`a`aa`b`]a_a^__0__K
@HWI-EAS443:3:59:1553:1110#0/1
GGCATTACCATCCATCTACTAGTGCTGACCAACAAAGTC
+HWI-EAS443:3:59:1553:1110#0/1
a[^```__SXSa`¥a_^Q]_aUa]aaa_VP_WPHV^QS
@HWI-EAS443:3:59:161:993#0/1
ATTTTGATGGTGATAACCGTACCATCCATCTACCATCCCT
+HWI-EAS443:3:59:161:993#0/1
`aaa`aaaaR` `_baaaaOY]`aa__a__Y^__YRM_^Z
@HWI-EAS443:3:59:1651:842#0/1
CTTCAGGTGGCTGCATATCCTGACCCCTGCTCATTTTGA
+HWI-EAS443:3:59:1651:842#0/1
abbab`bbbaabaabbbb`babaa`_abbb_aSbZZb]^
@HWI-EAS443:3:59:1677:1213#0/1
GCTTCCTCTGAGTATTTGGGTAGTCATAAGTCCCATTTT
+HWI-EAS443:3:59:1677:1213#0/1
a`baa_b¥baab`abbbbaa_W`ba`aaa`aZ_^ZXXa_]`
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GCTGGCTGGATCCTGGGAAATCCAGAGTGTGAATCACTCT
+HWI-EAS443:3:59:171:1394#0/1
ab`[P¥`[]a```¥P¥a_a`T¥`^^ZZZ¥Y[^]TSLKSUR
@HWI-EAS443:3:59:1734:344#0/1
CGCCAGTTCATTGGTACTGGTAGTCTCCCTGGGGCAATC
+HWI-EAS443:3:59:1734:344#0/1
abababbbbabbb` `babab`bb¥`^_ab` `HaaaUU¥^R
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+HWI-EAS443:3:59:1748:1417#0/1
a`bb`abb` `^ba`U_b` `a`a`ab¥`bbbaaa^aS]XaT
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GCCTCCCATTTCAGAATATACATCCGATCACAATTGAAAA
+HWI-EAS443:3:59:1752:1205#0/1
a`^`aa[^` `a`_^__a`aa^aa__a][YTXRYUSQQQTS
@HWI-EAS443:3:59:1766:689#0/1
CCCCATTGCATTTGGGTAAATGTAACATTGCTGGCTGGAT
+HWI-EAS443:3:59:1766:689#0/1
aa` `b__babab`_Y^T`_aaaaaaaa^]`__a^`_SWOR
@HWI-EAS443:3:59:1767:959#0/1
CATTCTGTGTGCTCTTCAGGTCGGCTGCATATCCTGACCC
+HWI-EAS443:3:59:1767:959#0/1
abbb]bbaa`bbbbbbbabab`bba`b`bbbbZa[¥FT]__
@HWI-EAS443:3:59:191:1747#0/1
TGAGTATTTGGGTAGTCATAAGTCCCATTTTGGACACTT
+HWI-EAS443:3:59:191:1747#0/1
__a`T^bbb`aSZZ]a]a`aab`WbaabaaaaaaaaWX^`_`

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+HWI-EAS443:3:59:198:16#0/1
abaYab_aaa`aa__`__a_aa_]¥^[^_¥X¥]^URZX_
@HWI-EAS443:3:59:204:683#0/1
TGCCGGTTTCATTGAAGGGGGTGGACAGGGATGGTAGAT
+HWI-EAS443:3:59:204:683#0/1
__a_b_`bbabba_X_babaaaR^`^¥aaaa^^a`UR[^S
@HWI-EAS443:3:59:210:162#0/1
ACCAGTACCAATGAACTGGCGACAGTTGAATAGATCGCCA
+HWI-EAS443:3:59:210:162#0/1
Ua]GYXY^_OW`aS`VaYPZ[OVR¥]X]W]BBBBBBBBBB
@HWI-EAS443:3:59:213:868#0/1
TGACAAGTTGTATTGCAATCGTGGACTGGTGTATCTGAAA
+HWI-EAS443:3:59:213:868#0/1
X_ISRR_UX^X`a¥`_ab¥XaQYUPGYGL¥TYY_YYa]W
@HWI-EAS443:3:59:22:95#0/1
GGTGGACAGGGATGGTAGATGGATGGTACGGTTATCACCA
+HWI-EAS443:3:59:22:95#0/1
aaUaa[`¥aaa¥`aaY_`¥¥^_W¥`¥U¥Y_¥WYWWUYWVW
@HWI-EAS443:3:59:248:1249#0/1
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+HWI-EAS443:3:59:248:1249#0/1
a^[]`aUY`RPU[_[_Z[VS]QV_XX¥NZLQNSNMRRJ
@HWI-EAS443:3:59:268:894#0/1
AAGCCAGTTAAAAACAATGCCAAGGAAATTGGAAACGGC
+HWI-EAS443:3:59:268:894#0/1
aaaaTa_Qaa`¥[[]`U`_]a[`_VPZ]ZPDPZYV__R
@HWI-EAS443:3:59:275:877#0/1
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+HWI-EAS443:3:59:275:877#0/1
¥a`a¥Xaab`bab^baaababb^aba`a`H_aaZ_ZV[
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CTCGTCAATGGCATTCTGTGTGCTCTTCAGGTCGGCTGCA
+HWI-EAS443:3:59:292:989#0/1
ababbbbaa^aababab_aXa`aabaU^XUaa_W^_¥^
@HWI-EAS443:3:59:29:1054#0/1
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+HWI-EAS443:3:59:29:1054#0/1
abaabb`babbaaaabbaaabaaZ_^aa```_a^_Y`_^
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+HWI-EAS443:3:59:326:1629#0/1
ab`abba^bab¥bb[bbbaaZzb]^`¥UZ[Z¥PV[GWWYZ
@HWI-EAS443:3:59:332:1901#0/1
GGGACATCAAGATACAGCAAGAAGTTCAAGCCGAAATAG
+HWI-EAS443:3:59:332:1901#0/1
_XIV^_V_a^ZVP_]aaa]b^`_aW¥^_X¥YDR_XXN_[N
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+HWI-EAS443:3:59:334:642#0/1
a`abb_aaaaaa_`aaaaaaaaa_a`_`U^_aaYWa_^
@HWI-EAS443:3:59:370:1159#0/1
GTATTATCATTTCAGATACACCAGTCCACGATTGCAATAC
+HWI-EAS443:3:59:370:1159#0/1
a[]`_ba`¥]]`aaba_`a¥_`_¥Za`¥`^[S]_¥_W]ZT
@HWI-EAS443:3:59:375:179#0/1
GGCCTATTTGGGGCCATTGCCGGTTTCATTGAAGGGGGGT
+HWI-EAS443:3:59:375:179#0/1
aaa`aa`aaaa`aaaa`aaS]]`¥^_¥¥]^¥W¥¥U
@HWI-EAS443:3:59:394:283#0/1
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+HWI-EAS443:3:59:394:283#0/1
^`babaababaaaa`aaaa_a¥aaaa_aa__`_aVP``Y
@HWI-EAS443:3:59:39:139#0/1
GCTGCTTTGAATTTTACCACAAATGCGATAACACGTGCAT
+HWI-EAS443:3:59:39:139#0/1
aaaa^`aaa_`aa`]a`a_[Y[Y__[`WY^]X]^_N]U]Z
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+HWI-EAS443:3:59:451:2006#0/1
`aaZ[[]WT^ab`b`SKVT`^Y[]TWSUOH_`aYGS_NR
@HWI-EAS443:3:59:48:380#0/1
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+HWI-EAS443:3:59:48:380#0/1
R^[_¥¥_Z[VXZXZ]_^FZY`¥YU¥H¥¥Z]UWLT¥OLXa[
@HWI-EAS443:3:59:501:220#0/1
GTGGGGACATCAAGATACAGCAAGAAGTCAAGCCGAAAA
+HWI-EAS443:3:59:501:220#0/1
aZ^`_a][_^^^WWS^_`^Za^_QaXZ]^ZXRXZZZW
@HWI-EAS443:3:59:526:1112#0/1
TGCTATTTCCGGCTTGAACCTTCTTGCTGTATCTTGATGTC
+HWI-EAS443:3:59:526:1112#0/1
]a[`]bbab^``]abZ`_Xa¥aaaa]aa__XN]^`_VYa[^
@HWI-EAS443:3:59:543:416#0/1
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+HWI-EAS443:3:59:543:416#0/1
abaaaaabaaaaabaaaaaa```[``_aa`^GS¥ZGTXS
@HWI-EAS443:3:59:566:1741#0/1
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+HWI-EAS443:3:59:566:1741#0/1
_baaabaaaabba`aaaa_aaabaababaaa]aaa]^`_Z
@HWI-EAS443:3:59:594:910#0/1
GCCAGTTAAAAACAATGCCAAGGAAATTGGAAACGGCTG
+HWI-EAS443:3:59:594:910#0/1
[`bba[ab`Xbba_ba`a^¥`LRba[a^`aX]bb¥`S_BB
@HWI-EAS443:3:59:651:207#0/1
CTTCCTCTGAGTATTTTGGGTAGTCATAAGTCCCATTTTT
+HWI-EAS443:3:59:651:207#0/1
aa`^`abbbb`¥ababab`b^bbaaaa^ab`T``_¥`aa`

@HWI-EAS443:3:59:729:223#0/1
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+HWI-EAS443:3:59:729:223#0/1
aa`Z]aaaaa^a`[aaa`aa^a```¥a_``aX^^ZUUW][
@HWI-EAS443:3:59:747:282#0/1
AGGGGGGTGGACAGGGATGGTAGATGGATGGTACGGTTAT
+HWI-EAS443:3:59:747:282#0/1
`bbbabbb[ab`bbbababab¥abbabb```aaVa_aQS```¥
@HWI-EAS443:3:59:760:195#0/1
TCTGAGTATTTTGGGTAGTCATAAGTCCCATTTTGGACAC
+HWI-EAS443:3:59:760:195#0/1
a```aa^b^aa`aaa`a[````aaa[X[Z¥W^W^¥XX_^W
@HWI-EAS443:3:59:780:164#0/1
AAACCGGCAATGGCCCCAAATAGGCCTCTAGATTGAATAG
+HWI-EAS443:3:59:780:164#0/1
abba]ababa]^a`aaabba_a_aaa^^^`])`__QV_^[
@HWI-EAS443:3:59:781:908#0/1
CACAAATGCGATAACACGTGCATGGAAAGTGCAAAAATG
+HWI-EAS443:3:59:781:908#0/1
abba^`bbbbbb``bbbbabababa`bba_b^abb_[]]a
@HWI-EAS443:3:59:794:1133#0/1
TTCCGGCTTGAACCTTCTTGCTGTATCTTGATGTCCCCACA
+HWI-EAS443:3:59:794:1133#0/1
aa`a_`aaaY```_aa_a`X¥[`^_a_`][^_U^_XV]WZ
@HWI-EAS443:3:59:794:362#0/1
ATGCATCTGCATTCTGATAGAGACTTTGTTGGTCAGCACT
+HWI-EAS443:3:59:794:362#0/1
`^a```a```_bb`ab`]aabaaZ_aa`¥W_XZQ¥]ZM_UY
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+HWI-EAS443:3:59:805:1266#0/1
abaaab^]aa¥Z_`aab^[]¥XTaa_¥][`Z[_N[TURZQ
@HWI-EAS443:3:59:827:1907#0/1
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+HWI-EAS443:3:59:827:1907#0/1
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+HWI-EAS443:3:59:875:1860#0/1
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@HWI-EAS443:3:59:910:1288#0/1
GCTTCGAATGTTATTTTGTCTCCCGGCTCTACTAGTGTCC
+HWI-EAS443:3:59:910:1288#0/1
abbbbab`bbabbbbbbabaaa`baa^`b^]W^a`VO]_G
@HWI-EAS443:3:59:930:1789#0/1
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+HWI-EAS443:3:59:930:1789#0/1
aa_`X```aaaaaa]a`aaaa`aa`_a_b^`¥PZ^XXZ_WO
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+HWI-EAS443:3:59:986:944#0/1
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@HWI-EAS443:3:59:997:743#0/1
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+HWI-EAS443:3:59:997:743#0/1
aabbab`bbba`aabbba^Ybaababb^aaaU^a`_
@HWI-EAS443:3:5:1037:1036#0/1
CATCTTTTCAATAACAGAATTTACTTTGTTAGTAATCTCG
+HWI-EAS443:3:5:1037:1036#0/1
`bb_bbbbabaaaa_b`_abbaa_abab`abb¥aaa`a¥b
@HWI-EAS443:3:5:1115:136#0/1
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+HWI-EAS443:3:5:1115:136#0/1
aaabbbabbaa[abbaaab`a_aaab]X^aaaaaaaa_
@HWI-EAS443:3:5:111:1159#0/1
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+HWI-EAS443:3:5:111:1159#0/1
_b`Ybaab^abab[Y_b`baa]abb[ba_Z``a_baUb^U
@HWI-EAS443:3:5:1175:798#0/1
CGGCTTGAACTTCTTGCTGTATCTTGATGTCCCCACAAAA
+HWI-EAS443:3:5:1175:798#0/1
`bbabba¥a^bb^bbVab¥`_b_bb`^a][^aaaa__aaa
@HWI-EAS443:3:5:1185:488#0/1
AGAAGACAAGCATAACGGGAACTATGCAAACCTAAGAGGG
+HWI-EAS443:3:5:1185:488#0/1
aa[a`][_`^a]`__^`¥H`aI`a^_a]¥_]___a^BBB
@HWI-EAS443:3:5:1328:1361#0/1
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+HWI-EAS443:3:5:1328:1361#0/1
`aaaaaaaa¥Z`__a_aa_a`aa[___a```_]_]BBB
@HWI-EAS443:3:5:1349:866#0/1
TGGGCCATGAACTTGTCTTGGGGAATATCTCAAACCTTTC
+HWI-EAS443:3:5:1349:866#0/1
`S¥]¥Yb`[¥[`¥^Pab`a¥Z^]`^^``aba`[D[_aB
@HWI-EAS443:3:5:1379:868#0/1
CTCCTCATAATCGATGAAATCTCCTGGGTAACACGTTCCA
+HWI-EAS443:3:5:1379:868#0/1
Yaba_bbb_`¥Xa]bbbaXab^b_bbbabb`bX^aa]J]
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TAAGAAGCCAGTTAAAAACAATGCCAAGGAAATTGGAAA
+HWI-EAS443:3:5:1411:69#0/1
aaaaaaaa]Xa_^a_]____^`Y__¥Y]^a^[YZ_^`^BB
@HWI-EAS443:3:5:1448:155#0/1
ATTGCAATCGTGGACTGGTGTATCTGAAATGATAATACCA
+HWI-EAS443:3:5:1448:155#0/1
a`RY_aZ[RN_¥UZV`ZVVV`a_T`¥H`YaYa`]ZX^BBB
@HWI-EAS443:3:5:1489:475#0/1
CAGCATGAGGACATGCTGCCGTTACACCTTTGTTTCGAGTC
+HWI-EAS443:3:5:1489:475#0/1
Za[Ua`b```_b`bY`baX]b^baa^]U_a^aaba``b`_

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+HWI-EAS443:3:5:1507:749#0/1
`^`abba_abaaba_abbab`_a_aaaa`_`_^`a_`^`_
@HWI-EAS443:3:5:1530:1678#0/1
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+HWI-EAS443:3:5:1530:1678#0/1
abbb[bba]a[bNaZ`a_Yaa`_a`_`^^aVa_Ya__B
@HWI-EAS443:3:5:155:510#0/1
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+HWI-EAS443:3:5:155:510#0/1
aabbbaaaaaaaaaabaaaabaaa`aaa_aaa`ba`BB
@HWI-EAS443:3:5:1617:1123#0/1
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+HWI-EAS443:3:5:1617:1123#0/1
abaS`LSbUaV_aWabbaYaabb_^¥a`a^aaba_aa_B
@HWI-EAS443:3:5:1640:1258#0/1
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+HWI-EAS443:3:5:1640:1258#0/1
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+HWI-EAS443:3:5:1697:1364#0/1
`aU_^_W]a_a]UY¥[[_a`^Q`]]`^^WfNZWWaNPp
@HWI-EAS443:3:5:1768:830#0/1
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+HWI-EAS443:3:5:1768:830#0/1
aZU^aabb`]^[TVZ]__]_`YZYS]__VBBBBBBBBBB
@HWI-EAS443:3:5:192:224#0/1
GGGAAAGAAGTCCTCGTGTATGGGGCATTACCATCCAT
+HWI-EAS443:3:5:192:224#0/1
^bbab_aaaa`aaaa]aa`XY_a^a`_¥X^¥]a_]`B
@HWI-EAS443:3:5:199:387#0/1
CTAGATTTCCAGTTGCTTGAATGTTATTTTGTCTCCCGG
+HWI-EAS443:3:5:199:387#0/1
`a_aabbb_Z_b]aY_ab^bab`^Ya]a_`KQZ]_aBBB
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+HWI-EAS443:3:5:211:1352#0/1
¥^b^[Waaab_^YVbaab^¥aaa`Vba`Y]_aZb¥^^BB
@HWI-EAS443:3:5:229:338#0/1
TTCTTGCTGTATCTTGATGTCCCCACAAAAACATATGCAT
+HWI-EAS443:3:5:229:338#0/1
aa`a]aaa¥Y`_Z`^^^aa_a]`^^]__^^¥`[]_^_W_^
@HWI-EAS443:3:5:240:1263#0/1
GCCGGTTTCATTGAAGGGGGTGGACAGGGATGGTAGATG
+HWI-EAS443:3:5:240:1263#0/1
aZa`]Ga^aVaYV]W`[O]^`GVT[UVV^_XWa¥PYBBBB
@HWI-EAS443:3:5:287:1340#0/1
GAAGTCCTCGTGTATGGGGCATTACCATCCATCTACTA

+HWI-EAS443:3:5:287:1340#0/1
a_X]a`¥a[a_^Z]_aa__`Q`[^_^`_a_`^__T_a`_B
@HWI-EAS443:3:5:299:936#0/1
GCTGGCTGGATCCTGGGAAATCCAGAGTGTGAATCACTCT
+HWI-EAS443:3:5:299:936#0/1
a]baaa`RY^_X`a`^aaaa_^Z^ZY]H`V]aRV¥ZXXBB
@HWI-EAS443:3:5:339:1808#0/1
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+HWI-EAS443:3:5:339:1808#0/1
aa_T¥`[^`abaa`__aa_T`_¥X¥^S^^RM¥`S`W¥_¥B
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CCGTTACACCTTTGTTTCGAGTCATGATTGGGCCATGAACT
+HWI-EAS443:3:5:355:752#0/1
aa`Uaa`a`L^Uaa¥`^]`^VPU]_NHUWG^Z[RV_VRQV
@HWI-EAS443:3:5:367:125#0/1
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+HWI-EAS443:3:5:367:125#0/1
aWFSaXP`]^[_`Y^_W^`UIOX__UUWW^OWZBBBBBBB
@HWI-EAS443:3:5:367:571#0/1
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+HWI-EAS443:3:5:367:571#0/1
^U`bbbaVZfVbY^aXVX^__[_`ab^aaaRFY`IaQa^`B
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AAAATAACATTCGAAGCAACTGGAAATCTAGTGGTACCGA
+HWI-EAS443:3:5:512:571#0/1
_babbba^abaYbaab_a``abaaaaaaaa`_a_^a`]aa
@HWI-EAS443:3:5:516:1121#0/1
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+HWI-EAS443:3:5:516:1121#0/1
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+HWI-EAS443:3:5:519:627#0/1
aabb_ab_b`abb`_aba`aa`_`^a_a_Z_]Z^^_BB
@HWI-EAS443:3:5:533:203#0/1
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+HWI-EAS443:3:5:533:203#0/1
abaa_KZa¥a[TT_]Ta```]aaa[`Z`V`^XKV^[UW_BB
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+HWI-EAS443:3:5:537:1543#0/1
aY^¥```]aaa_U[[`a]LZ`_a`Y`S^¥^aY`IX`Z^_B
@HWI-EAS443:3:5:569:951#0/1
GAGGCTGGTGTATATAGCACCTTGGGTGTCTGACAAGTT
+HWI-EAS443:3:5:569:951#0/1
aaa_aaaa^a_aa`]¥Z`¥aa[_aa__IXGU`_`¥S¥]BB
@HWI-EAS443:3:5:628:591#0/1
GGGGTGGACAGGGATGGTAGATGGATGGTACGGTTATCAC
+HWI-EAS443:3:5:628:591#0/1
a[QWU_a`_`^¥0¥VYaaU_aOR`[N`_SR^¥`¥V^BBBBB

@HWI-EAS443:3:5:645:1998#0/1
TTGAATTTTACCACAAATGCGATAACACGTGCATGGAAAG
+HWI-EAS443:3:5:645:1998#0/1
a¥bVV`ba¥JUbb[abbb`aaaaaa[V_aG_IZ_aa^a`^
@HWI-EAS443:3:5:658:737#0/1
GCTGGATCTGGTATTATCATTTCAGATACACCAGTCCACG
+HWI-EAS443:3:5:658:737#0/1
ab_bba_bbab]abbaabbbbab`babbaba_ab`aaaab
@HWI-EAS443:3:5:671:1181#0/1
CGATTCAAATGTGAAGAACTTATATGAAAAGGTAAGAAGC
+HWI-EAS443:3:5:671:1181#0/1
¥abbbba^babbb_bbbaababbbbaa`bbabb]aaaabaa
@HWI-EAS443:3:5:675:731#0/1
GTGGAGAGTGATTACACTCTGGATTTCCCAGGATCCACG
+HWI-EAS443:3:5:675:731#0/1
aabb`bab``aaa¥aabaaaaab`a¥ZZZa___`_V___`B
@HWI-EAS443:3:5:685:944#0/1
GCTAGTTAAAAAGGAAATTCATACCCAAAGCTCAGCAAA
+HWI-EAS443:3:5:685:944#0/1
aababaaaaba```_aaaa_aa_a___aa`___]a`_``_`
@HWI-EAS443:3:5:722:19#0/1
GAGTATTTTGGGTAGTCATAAGTCCCATTTTGGACTTT
+HWI-EAS443:3:5:722:19#0/1
aab`a`baabab^ab`ab`^aX^]UZba``aa]__Z`a^
@HWI-EAS443:3:5:805:800#0/1
GAGTATTTTGGGTAGTCATAAGTCCCATTTTGGACTTT
+HWI-EAS443:3:5:805:800#0/1
aaa^abaa`^^][T]`[^aW[^[Yaa]`aaUQ]ZU`_
@HWI-EAS443:3:5:855:1118#0/1
GGGGCATTACCATCCATCTACTAGTGCTGACCAACAAAG
+HWI-EAS443:3:5:855:1118#0/1
]W`WT]`aT`PY___^ZRY[a]_M]M[_`_Y^`YLN`]]
@HWI-EAS443:3:5:879:120#0/1
ATCCTGGGAAATCCAGAGTGTGAATCACTCTCCACAGCAA
+HWI-EAS443:3:5:879:120#0/1
^bZQ]aaa¥_aa^_X_Ya_____`_`V`Y^^[WGZR]BBBB
@HWI-EAS443:3:5:907:457#0/1
CACGTGTATCGCATTGTGGTAAAATTCAAAGCAGCCGT
+HWI-EAS443:3:5:907:457#0/1
`b`b¥babbabbUQ^^`M`X`aabbZ`_a`_a^Yb]baW
@HWI-EAS443:3:5:909:1352#0/1
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+HWI-EAS443:3:5:909:1352#0/1
`abaa_aba^ZZ`Y^a^aaaa_a__aaa_a_a_[Y`_`a
@HWI-EAS443:3:5:921:250#0/1
AGAAGTTCAAGCCGAAATAGCAATAAGACCCAAAGTGAG
+HWI-EAS443:3:5:921:250#0/1
ab`aaYa`aa_QQ[ZUU_`¥_S¥_`__a^^RV[]]`Y_aB
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@HWI-EAS443:3:60:1136:27#0/1
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+HWI-EAS443:3:60:1136:27#0/1
ababbbbbb]_aaaaaa_¥a`aa]¥aa`__a_V^XV^WWWU
@HWI-EAS443:3:60:1141:762#0/1
GGGGACATCAAGATACAGCAAGAAGTTCAAGCCGAAATA
+HWI-EAS443:3:60:1141:762#0/1
a`aa^¥`Y]Y`a^^[_`Zaaa¥UaU^^`[^]S^`^]¥ZY
@HWI-EAS443:3:60:1158:1080#0/1
TGCCGGTTTCATTGAAGGGGGTGGACAGGGATGGTAGAT
+HWI-EAS443:3:60:1158:1080#0/1
`bbaba`abbbbbb^`bbbaa^aaa```aa`aaa[aaa_
@HWI-EAS443:3:60:1161:73#0/1
CACCTGGAAAAAGAATAGAGAATTTAAATAAAAAAGTTG
+HWI-EAS443:3:60:1161:73#0/1
^aababbbbaaa^bbabbbbaabbbbaabaaa`__a^ab
@HWI-EAS443:3:60:1163:1731#0/1
ATATGCATCTGCATTCTGATAGAGACTTTGTTGGTCAGCA
+HWI-EAS443:3:60:1163:1731#0/1
aa`a_aaaa`a__aaa`a]_`^`__a`Z`]RR]^]¥^
@HWI-EAS443:3:60:1165:609#0/1
AGACTTTGTTGGTCAGCACTAGTAGATGGATGGTGAATGC
+HWI-EAS443:3:60:1165:609#0/1
]b[b`]_aababaa_b`aaabb__a^bb`¥aba_bb_aaa
@HWI-EAS443:3:60:1208:1997#0/1
CTGGCTGGATCCTGGGAAATCCAGAGTGTGAATCACTCTC
+HWI-EAS443:3:60:1208:1997#0/1
ab`]``¥aa¥X_Z_a`V_ab[TT[``I_Ib`_a^_N¥__[
@HWI-EAS443:3:60:1208:430#0/1
GCTGGCTGGATCCTGGGAAATCCAGAGTGTGAATCACTCT
+HWI-EAS443:3:60:1208:430#0/1
abab__aa```aaXaab`a____a]a```a_¥_]_¥a^`
@HWI-EAS443:3:60:125:239#0/1
GGGGACATCAAGATACAGCAAGAAGTTCAAGCCGAAATA
+HWI-EAS443:3:60:125:239#0/1
abaa_]¥``__```a_aaa]S`]_`_Z^X]_YWXX]^
@HWI-EAS443:3:60:1294:895#0/1
GCTGGCTGGATCCTGGGAAATCCAGAGTGTGAATCACTCT
+HWI-EAS443:3:60:1294:895#0/1
abb__bZb¥Y`a_b^a`Zba_aaa`ZYDYaaZVRZ]R[`_
@HWI-EAS443:3:60:1295:1514#0/1
GACCCCTGCTCATTTTGTGATGGTGATAACCGTACCATCCAT
+HWI-EAS443:3:60:1295:1514#0/1
`baabZ`ab`aaaa]a^a`]a`a`a`QSU_UM`_SU`^
@HWI-EAS443:3:60:1325:282#0/1
ATCTACTAGTGCTGACCAACAAAGTCTCTATCAGAATGCA
+HWI-EAS443:3:60:1325:282#0/1
aaZ]aa`a_aW¥__]_]`Y]¥`_YY_Z_]W^_]Y^^X]
@HWI-EAS443:3:60:1371:1238#0/1
TTCCAATTGTGATCGGATGTATATTCTGAAATGGGAGGCT

+HWI-EAS443:3:60:1371:1238#0/1
aaaa_aaab_a_`_aa_adW^_R]_]__V^ZZ[^T^][JS
@HWI-EAS443:3:60:1406:2013#0/1
TGTGGGGACATCAAGATACAGCAAGAAGTTCAAGCCGGAA
+HWI-EAS443:3:60:1406:2013#0/1
aa[]aaa_a`¥`^`^`^]__a_[^^`S]¥`]WU[]]^]
@HWI-EAS443:3:60:1475:1304#0/1
CGTCAATGGCATTCTGTGTGCTCTTCAGGTCGGCTGCATA
+HWI-EAS443:3:60:1475:1304#0/1
]b]a`_]Q]aaab_abb`aP`¥^a`^]ZVa¥^aXKT]LV`_
@HWI-EAS443:3:60:1481:1386#0/1
AAGAAGTCCTCGTGCTATGGGGCATTACCATCCATCTAC
+HWI-EAS443:3:60:1481:1386#0/1
aaaaa^[\`^`^`_¥^`_a]_]_[UaZ¥`¥N__¥U^¥WW_W
@HWI-EAS443:3:60:1485:629#0/1
GGGGACATCAAGATACAGCAAGAAGTTCAAGCCGGAAATA
+HWI-EAS443:3:60:1485:629#0/1
aa_a`^`aa^aaa`aa_aaZaaa__aZ__a^_]Y____]_`_
@HWI-EAS443:3:60:1487:541#0/1
GCTGGCTGGATCCTGGGAAATCCAGAGTGTGAATCACTCT
+HWI-EAS443:3:60:1487:541#0/1
a`bbaabba`^`^`^`aaa_aa]VZ^`^a_a^]Y]^ZaW`^_
@HWI-EAS443:3:60:1491:275#0/1
ATGACACTGAGCTCAATTGCTCTCTTAGCTCCTCATAATC
+HWI-EAS443:3:60:1491:275#0/1
aaba_b`aaaa`a_aaaaa_a^`Za_`]__^¥^Z^`^^_X
@HWI-EAS443:3:60:1548:1353#0/1
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+HWI-EAS443:3:60:1548:1353#0/1
ab`^`aaaababbbbabbaab^_aa_`a`a`^`Zaa__aaa
@HWI-EAS443:3:60:1559:1086#0/1
GCTGGCTGGATCCTGGGAAATCCAGAGTGTGAATCACTCT
+HWI-EAS443:3:60:1559:1086#0/1
aaaaa`aaYJ[Q__`Y^[Z`^]¥^_[aW¥Y__¥UX^T^SV
@HWI-EAS443:3:60:1576:1321#0/1
CGTGGTAGTCCAAAGTTCTTTTCAATTTTCCAATAGAACCAA
+HWI-EAS443:3:60:1576:1321#0/1
aaY_[]aaaaa^¥Y^Z`[aa^Y`]aaa]R]Y]]ZY`WZ_`
@HWI-EAS443:3:60:1592:1588#0/1
CCCGGCTCTACTAGTGTCCAGTAATAGTTCATTCTCCCTT
+HWI-EAS443:3:60:1592:1588#0/1
a`^`^`aa¥INaYX[Y^Z`XXUO^[`S[U^]PQa_L]VTY][
@HWI-EAS443:3:60:1606:630#0/1
GTGCTCTAATGGGTCTCTACAGTGTAGAATATGTATTTAA
+HWI-EAS443:3:60:1606:630#0/1
`_b_a`b_^ab¥[S^a`aaW[b[Y__aa_a^a`Z¥a__][Z
@HWI-EAS443:3:60:1661:1760#0/1
CTGAGCTCAATTGCTCTCTTAGCTCCTCATAATCGATGAA
+HWI-EAS443:3:60:1661:1760#0/1
abb`aabaabbbba^bababba_aa__a`aaaaaZ_`__`^`

@HWI-EAS443:3:60:1666:227#0/1
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+HWI-EAS443:3:60:1666:227#0/1
abbaaaba`aaaaaabaaba`b¥`_a`X_a`_^a__
@HWI-EAS443:3:60:1688:587#0/1
GTGGACAGGGATGGTAGATGGATGGTACGGTTATCACCAT
+HWI-EAS443:3:60:1688:587#0/1
a_a`_¥`_aaZ`_aY_a^U[_V[___W]WY`W^UMMVPRRR
@HWI-EAS443:3:60:168:1010#0/1
CAAGATACAGCAAGAAGTTCAAGCCGGAAATAGCAATAAG
+HWI-EAS443:3:60:168:1010#0/1
a`bbaabbbbababaab_aabaaa`aba`a``a`_a_a`_`
@HWI-EAS443:3:60:1697:638#0/1
GAAAGAAGTCCTCGTGCTATGGGGCATTACCATCCATCT
+HWI-EAS443:3:60:1697:638#0/1
aa``aa_a_aXa_a`a_a^aa`Z^Z`a]a`__^Y]]_]`^
@HWI-EAS443:3:60:175:1045#0/1
AGTAGATGGATGGTGAATGCCCCATAGCACGAGGACTTCT
+HWI-EAS443:3:60:175:1045#0/1
abWabaaa_aaaaYa`a`a_aa`^^`^^`^_`[S¥Z]]^_`
@HWI-EAS443:3:60:1771:1389#0/1
CAGGTCGGCTGCATATCCTGACCCCTGCTCATTTTGATGG
+HWI-EAS443:3:60:1771:1389#0/1
`_]`^`]^`aaaaab`aa_a`[^^^a¥Z[]```_`_`[P¥
@HWI-EAS443:3:60:1771:427#0/1
GCCGGTTTCATTGAAGGGGGTGGACAGGGATGGTAGATG
+HWI-EAS443:3:60:1771:427#0/1
WT]ba`aa]U]a]M[]^a`[]KWLJ0`Z]Z¥_`^P]UPWT
@HWI-EAS443:3:60:1788:353#0/1
CAAGATACAGCAAGAAGTTCAAGCCGGAAATAGCAATAAG
+HWI-EAS443:3:60:1788:353#0/1
abbbb`bbbbbbbaaaa^aabbaZaaa`]^`a``Yaa_aa`
@HWI-EAS443:3:60:181:1303#0/1
GCTGGCTGGATCCTGGGAAATCCAGAGTGTGAATCACTCT
+HWI-EAS443:3:60:181:1303#0/1
abbb_b`]^`X]aa]U]]aba]^`^aa_aHXWS¥]]U`XP¥^
@HWI-EAS443:3:60:211:1235#0/1
GAAGTCCTCGTGCTATGGGGCATTACCATCCATCTACTA
+HWI-EAS443:3:60:211:1235#0/1
aaaaa``___`a`````_`_`^`^`____]]]^]V^^`]__
@HWI-EAS443:3:60:211:835#0/1
TGCCGGTTTCATTGAAGGGGGTGGACAGGGATGGTAGAT
+HWI-EAS443:3:60:211:835#0/1
XR`_¥`_Z`_ab`¥b_Y]abXLT¥`_bb]^`¥a_UQ_ZYMO_UY
@HWI-EAS443:3:60:256:476#0/1
CTTGAACCTCTTGCTGTATCTTGATGTCCCCACAAAAACA
+HWI-EAS443:3:60:256:476#0/1
U_]__¥`^abZ`aaaY¥aa`aaa_aaa`_a`_¥R¥`a`
@HWI-EAS443:3:60:262:509#0/1
GGGACATCAAGATACAGCAAGAAGTTCAAGCCGGAAATAG

+HWI-EAS443:3:60:262:509#0/1
XabbZbaa_]V_```abaaT[H[b_^Z^¥`a`aVJ][T]
@HWI-EAS443:3:60:299:820#0/1
GCTGGCTGGATCCTGGGAAATCCAGAGTGTGAATCACTCT
+HWI-EAS443:3:60:299:820#0/1
aQ[X^b`]VMM^a^`[^R^aa`aaYQJLYXY¥PYV]G¥TU
@HWI-EAS443:3:60:309:1511#0/1
GTTTCCAATTTTCCTTGGCATTGTTTTTTAACTGGCTTCTT
+HWI-EAS443:3:60:309:1511#0/1
^P]¥`a`_a^`¥a_]__ZZ^`¥`_`_]^^`_VQZ_^]W
@HWI-EAS443:3:60:331:530#0/1
ATTCATCTAGAGGCCTATTTGGGGCCATTGCCGTTTCA
+HWI-EAS443:3:60:331:530#0/1
a][_`Z^`]ZX^aaa¥a`^aa_aZY```V^][JQ]VL
@HWI-EAS443:3:60:334:1295#0/1
TTGAACTCTTTACCTACTGCTGTGAAGTGTATTTCATCT
+HWI-EAS443:3:60:334:1295#0/1
aa``aaaa`b`a`_`_`a`_]`^Z^``[^`[^]____^]
@HWI-EAS443:3:60:336:1064#0/1
GCCATGAAGTGTCTTGGGGAATATCTCAAACCTTTCAA
+HWI-EAS443:3:60:336:1064#0/1
a`a^a````_aab¥```aaa__Y_```_````[^`]^__]`_^`
@HWI-EAS443:3:60:387:1152#0/1
GCTGGCTGGATCCTGGGAAATCCAGAGTGTGAATCACTCT
+HWI-EAS443:3:60:387:1152#0/1
a__aZ^R[VRSa[YG^_¥_][¥__¥^Q[WUS^_¥¥WVNUXV
@HWI-EAS443:3:60:442:1481#0/1
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+HWI-EAS443:3:60:442:1481#0/1
^MZUTaWZV]T```[P`]TR^_XNZL¥TYNTXa^XVOQT^Y
@HWI-EAS443:3:60:450:470#0/1
GGGACATCAAGATACAGCAAGAAGTTCAAGCCGGAAATA
+HWI-EAS443:3:60:450:470#0/1
ab_a^a^`a`_`^_aa_`a`__`Y^X`^_^¥_`Y]X^¥
@HWI-EAS443:3:60:459:527#0/1
ACCTTTCAAATGATGACTGAGCTCAATTGCTCTCTTAG
+HWI-EAS443:3:60:459:527#0/1
a``aaaaa_a`a`_`a`aa^`^`^`____^]^^¥_`^`
@HWI-EAS443:3:60:46:978#0/1
GATGCATATGTTTTTGTGGGACATCAAGATACAGCAAGA
+HWI-EAS443:3:60:46:978#0/1
_Yabbb¥¥`babab`b_b^ay]X^`a_Wa`^a^`_¥`aa]
@HWI-EAS443:3:60:55:461#0/1
CACAAATGCGATAACACGTGCATGGAAAGTGTCAAAAATG
+HWI-EAS443:3:60:55:461#0/1
aaabaaabababaabaa``a_aaaaaa`Za^_`aa^]^a
@HWI-EAS443:3:60:617:436#0/1
AATTTTGCTTCTCTGAGTATTTTGGGTAGTCATAAGTCC
+HWI-EAS443:3:60:617:436#0/1
a`aaabb_a`_`_a_baaa]_a`_`_`a`Saa^_X_]_`^Y_]`

@HWI-EAS443:3:60:62:706#0/1
GTTGCTTCGAATGTTATTTTGTCTCCCGGCTCTACTAGTG
+HWI-EAS443:3:60:62:706#0/1
aYYQ^VV_TWXXZMLP]__]UH][^Z^ZWBBBBBBBBBBB
@HWI-EAS443:3:60:632:1979#0/1
GGAGGCTGGTGTATAGCACCTTGGGTGTCTGACAAGT
+HWI-EAS443:3:60:632:1979#0/1
a`Xaa`^_XWZ[````^X]^PZ^X]]WP`LUZ]LJVY[P
@HWI-EAS443:3:60:638:393#0/1
TTTTGCTTCTCTGAGTATTTTGGGTAGTCATAAGTCCCA
+HWI-EAS443:3:60:638:393#0/1
abab`aaba`babaaa]aaaaa`a^_a_`aa`^`]^_^^
@HWI-EAS443:3:60:664:1186#0/1
GGGGACATCAAGATACAGCAAGAAGTTCAAGCCGAAATA
+HWI-EAS443:3:60:664:1186#0/1
`a_[_aP_aa_aaa`aaa`a`_]`X`_aaZ]YX]]]__^
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CCCATTTTTGACACTTCCATGCACGTGTATCGCATTTG
+HWI-EAS443:3:60:671:726#0/1
aaabbbbbbbbaaaabaaaaaaaaa_b_aaa`^Yaaaaa
@HWI-EAS443:3:60:73:434#0/1
GACTACCAGTACCAATGAAGTGGCGACAGTTGAATAGATC
+HWI-EAS443:3:60:73:434#0/1
^b`bb`^aa¥abbabaZ¥a^Z]aaa¥^YF[YY__^V[Z[
@HWI-EAS443:3:60:741:1838#0/1
CTTATATGAAAAGGTAAGAAGCCAGTTAAAAACAATGCC
+HWI-EAS443:3:60:741:1838#0/1
^`_`abbabbaabbbWbaabbaabbaabbaabb`baaba_
@HWI-EAS443:3:60:746:659#0/1
GGGGACATCAAGATACAGCAAGAAGTTCAAGCCGAAATA
+HWI-EAS443:3:60:746:659#0/1
abaaa`aa_aba_`a`a````aa[`]¥^`[aXZ_`]^``_
@HWI-EAS443:3:60:778:1726#0/1
GAGACAAAATAACATTGAAGCAACTGGAAATCTAGTGGT
+HWI-EAS443:3:60:778:1726#0/1
a`Z`T^YZ^``[aa`Z]`a`^aaaa`aa_Y_XOY``Y[J[
@HWI-EAS443:3:60:794:1135#0/1
GGGCATTACCATCCATCTACTAGTGCTGACCAACAAAGT
+HWI-EAS443:3:60:794:1135#0/1
abbbbbbbbaabbbabbabbabaaabaab`aaa_aaaa^
@HWI-EAS443:3:60:806:610#0/1
CACTAGTAGATGGATGGTGAATGCCCATAGCACGAGGAC
+HWI-EAS443:3:60:806:610#0/1
``aab_aaabba_aba_abaaaaaa`a`aaaa_aa`_a`
@HWI-EAS443:3:60:815:1770#0/1
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+HWI-EAS443:3:60:815:1770#0/1
aa_RW]YP_¥`¥L¥Y`_Y]]NZY¥^V][_TTRP]¥^V[WS
@HWI-EAS443:3:60:828:495#0/1
TTGGAAACGGCTGCTTTGAATTTTACCACAAATGCGATAA

+HWI-EAS443:3:60:828:495#0/1
abbb`bbabbaaZST``RS]Xab_UNZ¥XX`ZGU][OJW^
@HWI-EAS443:3:60:831:466#0/1
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+HWI-EAS443:3:60:831:466#0/1
abbbbab`abbbba`baa`aab`aaaa`aa[a_a`_aZ^
@HWI-EAS443:3:60:847:424#0/1
AAACAATGCCAAGGAAATTGGAAACGGCTGCTTTGAATTT
+HWI-EAS443:3:60:847:424#0/1
aaa_abab`aaaaaaa`aaa`aa_aaaaabJLX^SSTL[]
@HWI-EAS443:3:60:856:205#0/1
AATGGAACGTGTTACCCAGGAGATTTTCATCGATTATGAGG
+HWI-EAS443:3:60:856:205#0/1
a`a`a`a`_aZ`^]____^Z`^]]Z`^_W]^Z`ZZ]X
@HWI-EAS443:3:60:888:985#0/1
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+HWI-EAS443:3:60:888:985#0/1
abababb```I``]a_aa`W¥`_`]]][Q[_WT]_^_JGY
@HWI-EAS443:3:60:895:713#0/1
AATTGGAACGGCTGCTTTGAATTTTACCACAAATGCGAT
+HWI-EAS443:3:60:895:713#0/1
U¥`^¥a`b`b`baa^_Y]^ZU[[Y`^RU^YZWZYN[ZLLT
@HWI-EAS443:3:60:896:203#0/1
CTCTGAGTATTTTGGGTAGTCATAAGTCCCATTTTTGACA
+HWI-EAS443:3:60:896:203#0/1
abbbbbbbabbbbbabb^bbaaab````aa`aaabaaaaa
@HWI-EAS443:3:60:89:1567#0/1
AAGCTTTTTGCTCCAGCATGAGGACATGCTGCCGTTACAC
+HWI-EAS443:3:60:89:1567#0/1
a^`b`^¥aa^aaaa`W`ba_a`Ia`_^`_¥T^¥`^^]]S
@HWI-EAS443:3:60:910:1189#0/1
GACAAGTTGTATTGCAATCGTGGACTGGTGTATCTGAAAT
+HWI-EAS443:3:60:910:1189#0/1
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@HWI-EAS443:3:60:932:1214#0/1
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+HWI-EAS443:3:60:932:1214#0/1
_aaa`a^aab_aaa`_`aaa][F[____a`^`S¥`_]ZZ
@HWI-EAS443:3:60:978:1522#0/1
CATCTATTTCTTCTCTGTTTAAATTTTGCTTCTCTGAGTA
+HWI-EAS443:3:60:978:1522#0/1
a`^]`_a^aab`R`aa_Vba_Z]]`a^`a^_[Uaa``UU
@HWI-EAS443:3:60:996:943#0/1
ATCTCGTCAATGGCATTCTGTGTGCTCTTCAGGTCGGCTG
+HWI-EAS443:3:60:996:943#0/1
aUba`baXb^¥]ZZ)`aY)`[YYaS`S`[Za^XGT_¥¥BB
@HWI-EAS443:3:61:1026:515#0/1
CAATGGAACGTGTTACCCAGGAGATTTTCATCGATTATGAG
+HWI-EAS443:3:61:1026:515#0/1
T_bbbb^__abb_aa`¥[_[X_R`__`aa`_V_aaaa^a

@HWI-EAS443:3:61:1058:532#0/1
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+HWI-EAS443:3:61:1058:532#0/1
abbbbabababbbbbbbabbbbababbbbabbba_aaa_
@HWI-EAS443:3:61:1111:1092#0/1
CTGCTGTGAAGTGTATTTCATCTTTTCAATAACAGAATT
+HWI-EAS443:3:61:1111:1092#0/1
[a_^\V\^V[ZS_ab]UU`¥b`Y[\`^_aa`XX_^[^`^Z__^
@HWI-EAS443:3:61:1115:620#0/1
TCCAGCTTTACCCCATCTATTTCTTCTCTGTTTAATTTTG
+HWI-EAS443:3:61:1115:620#0/1
aaaaaaaba`__^`aaaa_aaaab`aaaab^a`^]```a_
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+HWI-EAS443:3:61:1119:2011#0/1
aaaa^aa`a_aaZ_aaaaaa`b``_aa¥¥¥`_¥WY¥Y_WW
@HWI-EAS443:3:61:1144:473#0/1
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+HWI-EAS443:3:61:1144:473#0/1
a^Y[¥NPLQVUUWQ[]][YZ^]^[_]TUZYVZSLWVXPRVV
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+HWI-EAS443:3:61:1167:1073#0/1
abaaaaaaaaaaaaa_aaaaaa_baU__^__^^[W[[^]Z[
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+HWI-EAS443:3:61:1182:1667#0/1
¥_¥¥__QQVZXIXVV^``¥ZZUaa``ZW^XLVWHTLVIP
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+HWI-EAS443:3:61:119:1684#0/1
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@HWI-EAS443:3:61:1222:100#0/1
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+HWI-EAS443:3:61:1222:100#0/1
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+HWI-EAS443:3:61:1252:590#0/1
aa_`_a^_aa^_Z`_`aa^`_`a`_`__^^WWYQUWWZXZ
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+HWI-EAS443:3:61:125:1562#0/1
ab_abbabbbbab`aabbbaababbbabaaa¥]]W_NV
@HWI-EAS443:3:61:1272:1168#0/1
CCTCTGAGTATTTGGGTAGTCATAAGTCCCATTTTGGAC
+HWI-EAS443:3:61:1272:1168#0/1
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+HWI-EAS443:3:61:1295:101#0/1
aabababbbaaaaaabaa_aa_ba_a_`a_a^^^[_]]Z
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ATCCGATCACAATTGGAAAATGTCCAAAATATGTAAAAAG
+HWI-EAS443:3:61:1305:31#0/1
^b`^ba_YZUY^U[`a[OZa``[a^[TW_a_`¥YaX^`WX
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+HWI-EAS443:3:61:1361:1479#0/1
a`a`ab`aaaaaaaaabaaa`aaa````a_]^^V`[YU
@HWI-EAS443:3:61:1389:1912#0/1
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+HWI-EAS443:3:61:1389:1912#0/1
Z_^XV`aa_`aa`Zb_`¥_bbbb````babbaaaaaZPW^
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+HWI-EAS443:3:61:1400:1440#0/1
``baaabaaaa]_`V¥aaZRQT_a_XOXUH[[]YFTDPJU
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+HWI-EAS443:3:61:1409:2041#0/1
aaaa^]a_aaaa_`aabaa_baaaa]`XLQ]]]ZSWV
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+HWI-EAS443:3:61:1424:935#0/1
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+HWI-EAS443:3:61:1437:915#0/1
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+HWI-EAS443:3:61:1446:1681#0/1
a`bbab_aaaa]a`]aa_aaaaa^a`^`aa____ZXY
@HWI-EAS443:3:61:1478:151#0/1
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+HWI-EAS443:3:61:1478:151#0/1
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@HWI-EAS443:3:61:1504:297#0/1
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+HWI-EAS443:3:61:1504:297#0/1
aa``aa`a`¥a`a`_aaa_aaaVaaa`aW^__¥U_VWWM
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+HWI-EAS443:3:61:1539:1180#0/1
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@HWI-EAS443:3:61:155:710#0/1
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+HWI-EAS443:3:61:155:710#0/1
ab¥aa__`[_`____U`^_W]Z]^_YUU]]]]ZZZZXXUZ

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+HWI-EAS443:3:61:1574:487#0/1
b¥XR]]a^a]Iaa`[^[aX_¥NVV__¥PGWN¥KXGV
@HWI-EAS443:3:61:1623:1893#0/1
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+HWI-EAS443:3:61:1623:1893#0/1
abbabbbabbba`baabbbaaa^aaaaaaaa`¥[__OFS
@HWI-EAS443:3:61:1637:2034#0/1
CTGACCCCTGCTCATTTTGATGGTGATAACCGTACCATCC
+HWI-EAS443:3:61:1637:2034#0/1
]baabb`_]Z`_aa_aa`[a]_Zaaaaa[VRJVURY[LD
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+HWI-EAS443:3:61:1644:1506#0/1
_a0_a^^¥`__`^Y^`a`[a]__^IT`_[XY_]V00^XVY
@HWI-EAS443:3:61:1662:388#0/1
TGGTAGTCCAAAGTTCTTTTCATTTTCCAATAGAACCAACA
+HWI-EAS443:3:61:1662:388#0/1
aaaZ]^a``Z][__aaa^Z^aaaaa____`_¥XX¥_YS
@HWI-EAS443:3:61:1715:1126#0/1
ATTTTGGGTAGTCATAAGTCCCATTTTGGACTTTCCAT
+HWI-EAS443:3:61:1715:1126#0/1
__a¥a`_^`^[[[MvVaba]_aZaabbaa¥UvL]]]NNX^
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+HWI-EAS443:3:61:1747:264#0/1
a`a`abZb`a`_`aa_aaaa¥aa`^W`a^^^YV]^X
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+HWI-EAS443:3:61:1749:1563#0/1
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@HWI-EAS443:3:61:185:152#0/1
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+HWI-EAS443:3:61:185:152#0/1
a_aa`S^^ZPW^`UU_^_^`_N¥[SUUW^WWUYRQRWTQV
@HWI-EAS443:3:61:189:739#0/1
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+HWI-EAS443:3:61:189:739#0/1
abbabbbbabababb¥baa^`]^`abba`^]^`¥^^_]`
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+HWI-EAS443:3:61:190:987#0/1
a`ZV[aaW^a`_`Z`¥Z[TT]HRNHTXZ^^^R_]_X[VU
@HWI-EAS443:3:61:205:75#0/1
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+HWI-EAS443:3:61:205:75#0/1
a__aZ`X_S^V¥Q^]^Z^X_^XXYRHVKOR_W¥RHZXZWX
@HWI-EAS443:3:61:207:674#0/1
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+HWI-EAS443:3:61:207:674#0/1
`aaaa`a`ababb_aaa`aaa`VY¥¥aa``_`Z_]_____

@HWI-EAS443:3:61:246:992#0/1
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+HWI-EAS443:3:61:246:992#0/1
abbbbbbbbabbbbbbbbaab`a_a]^aY^aaa]``a

@HWI-EAS443:3:61:277:1022#0/1
TGTGGGACATCAAGATACAGCAAGAAGTTCAAGCCGGAA

+HWI-EAS443:3:61:277:1022#0/1
^a_¥^¥¥b`¥¥¥aZ^_a`a``[Q¥R[_aUZ^a]IZW^[U[

@HWI-EAS443:3:61:282:1288#0/1
ATGTTTTTGTGGGACATCAAGATACAGCAAGAAGTTCAA

+HWI-EAS443:3:61:282:1288#0/1
ab_abbb`^P^`¥]`[^aaa`_U¥Z¥baa``¥`T`UWZ^]

@HWI-EAS443:3:61:297:1624#0/1
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+HWI-EAS443:3:61:297:1624#0/1
``¥^¥ZbaaL__``YY_a]PZ[`[ZX`SLYYP_aBBBB

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+HWI-EAS443:3:61:327:1594#0/1
aa_VYaaaa]aa][`aaaa`¥¥a_aa_]`[_[Z^YY]S

@HWI-EAS443:3:61:37:79#0/1
CTAGATTTCCAGTTGCTTCAATGTTATTTTGTCTCCCGG

+HWI-EAS443:3:61:37:79#0/1
abbb`bbbab]b^aba[_abZ0^aWZX]aaaa^_^_]_]_

@HWI-EAS443:3:61:392:1459#0/1
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+HWI-EAS443:3:61:392:1459#0/1
abaaaa`aa`aaaaaaaa¥b¥_a__aa_b_`S¥¥^UZ¥¥

@HWI-EAS443:3:61:424:32#0/1
ACTTCTTGCTGTATCTTGATGTCCCCACAAAAACATATGC

+HWI-EAS443:3:61:424:32#0/1
]VY¥a_X`_a¥Jabb_L``[b^aaa¥^`¥^ZHVS0]^¥VH

@HWI-EAS443:3:61:447:748#0/1
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+HWI-EAS443:3:61:447:748#0/1
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@HWI-EAS443:3:61:476:137#0/1
ACAGAATTTACTTTGTTAGTAATCTCGTCAATGGCATTCT

+HWI-EAS443:3:61:476:137#0/1
ababaabba]`aaaa_baa¥_[]a]aa````^_Z¥Y_]X^

@HWI-EAS443:3:61:516:719#0/1
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+HWI-EAS443:3:61:516:719#0/1
aaa^^aaa_¥a_^U¥^`^`QHVY^_W_`^W¥^PW^^YYW

@HWI-EAS443:3:61:538:736#0/1
TGCTTCTCTGAGTATTTTGGGTAGTCATAAGTCCCATTT

+HWI-EAS443:3:61:538:736#0/1
a`aaaaaa_aaaa^_aa`_aaaW]^]a`_a]_^_^^^_

@HWI-EAS443:3:61:571:1980#0/1
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+HWI-EAS443:3:61:571:1980#0/1
`a`aaa`Z``aaa^`^^a]WL¥a[Z[XYLTL[UZTNRQRS
@HWI-EAS443:3:61:695:1025#0/1
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+HWI-EAS443:3:61:695:1025#0/1
aZaY^VYLQ_Z]^_PX_]_]aYYX[]^Z¥^ZZWRWRZ
@HWI-EAS443:3:61:742:764#0/1
GAATTTCTTTTTTAACTAGCCATATTAATTTTTGTAGA
+HWI-EAS443:3:61:742:764#0/1
a]]aaaa`aaaaaa]¥]_^aaaY`_a``__a____^][^]
@HWI-EAS443:3:61:770:467#0/1
GGGGACATCAAGATACAGCAAGAAGTTCAAGCCGAAATA
+HWI-EAS443:3:61:770:467#0/1
]X]^a^`__[Z`¥X^__`[X[¥KPVVY[¥]]VU]XPQVVV
@HWI-EAS443:3:61:779:559#0/1
GATGAAATCTCCTGGGTAACACGTTCCATTGTCTGAACTA
+HWI-EAS443:3:61:779:559#0/1
aaa`aaa_a^a___¥^¥Wa```_^]___^]_YZ__Z^ZZZ
@HWI-EAS443:3:61:786:523#0/1
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+HWI-EAS443:3:61:786:523#0/1
aaaa]]a```_`_`a^aa`a^aZJ`0¥a`a_^^_a¥_W]^
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+HWI-EAS443:3:61:791:791#0/1
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@HWI-EAS443:3:61:804:956#0/1
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+HWI-EAS443:3:61:804:956#0/1
abaab``baaabaa`aaaaaaa¥a```_aaa^¥__W¥[¥S
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+HWI-EAS443:3:61:807:698#0/1
aa_aaaaaa_a`_]^[____]OHX¥¥XTZY¥VYTTW]WXTT
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+HWI-EAS443:3:61:848:463#0/1
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@HWI-EAS443:3:61:857:879#0/1
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+HWI-EAS443:3:61:857:879#0/1
a`^a`a¥`a^Z^_¥V`[____][^`Q[Z^S^S[^VVV[XWWW
@HWI-EAS443:3:61:864:1221#0/1
AGTTCAAGCCGAAATAGCAATAAGACCCAAAGTGAGGGA
+HWI-EAS443:3:61:864:1221#0/1
¥_^_b`bb^^_^^aaba`_VZS¥`aaa`a^^aW`_`^YN
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+HWI-EAS443:3:61:883:1101#0/1
aa`aZ¥_R_R[a`P[`_W^Z¥SVX^_ZW_a_WX]UQ]`^P
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+HWI-EAS443:3:61:902:346#0/1
abbbba^`_bbbbbbb`W_`[bb_RQ_]aa`aaaaa`^^
@HWI-EAS443:3:61:926:2034#0/1
GAAATCCAGAGTGTGAATCACTCTCCACAGCAAGCTCATG
+HWI-EAS443:3:61:926:2034#0/1
a[^]UIX_][aY_]¥[`a^_a]a_`Y[^_^]`UVUNRXVV
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@HWI-EAS443:3:61:957:1777#0/1
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+HWI-EAS443:3:61:957:1777#0/1
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+HWI-EAS443:3:61:988:661#0/1
aa_`a`aaZX¥[_`^]_[[]aY[]_]a_`¥YSRZZXXUXY
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GGGGCATTACCATCCATCTACTAGTGCTGACCAACAAAG
+HWI-EAS443:3:62:1006:40#0/1
aba]__a[^b¥¥b_^a^`Z`aY^`a]a]K¥`V_^_ZX[LW
@HWI-EAS443:3:62:1057:413#0/1
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@HWI-EAS443:3:62:1064:998#0/1
CTGGTGTATCTGAAATGATAATACCAGATCCAGCATTCT
+HWI-EAS443:3:62:1064:998#0/1
a`^`_]a¥`aa_]S`baaba`[]]`a^`_`a]UZ_¥^_^
@HWI-EAS443:3:62:1075:71#0/1
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+HWI-EAS443:3:62:1075:71#0/1
aa¥`a^Ya`]aTJ_]T^S[b¥`N_XaUa`S[`Za^U_H_U
@HWI-EAS443:3:62:1098:1108#0/1
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+HWI-EAS443:3:62:1098:1108#0/1
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CGTCAATGGCATTCTGTGTGCTCTTCAGGTCGGCTGCATA
+HWI-EAS443:3:62:1098:1186#0/1
^[I^UTa^Qb¥YX_]Za__aS`L]U_N^H`XUU^aS[SHS]
@HWI-EAS443:3:62:109:391#0/1
GGGACATCAAGATACAGCAAGAAGTTCAAGCCGAAATAG
+HWI-EAS443:3:62:109:391#0/1
``babaab_bbbba¥`bbba``aZ^^]a_Q[``]`]a__¥[

@HWI-EAS443:3:62:1106:74#0/1
GAGCAATTGAGCTCAGTGCATCATTTGAAAGGTTTGAGA
+HWI-EAS443:3:62:1106:74#0/1
a`a`aa`[a`__a_a``]a¥[_aaa¥[[``]``__a]
@HWI-EAS443:3:62:1156:106#0/1
GCTGGTGTATTATAGCACCTTGGGTGTCTGACAAGTTGTA
+HWI-EAS443:3:62:1156:106#0/1
a`aaUaZ[_]`^WWV[_]___X]UXQ[NRSPSU]]VR
@HWI-EAS443:3:62:1182:1362#0/1
CTGGCTGGATCCTGGGAAATCCAGAGTGTGAATCACTCTC
+HWI-EAS443:3:62:1182:1362#0/1
aaaaaab_aaaa^`_`ba`^^^`¥_S___a`]¥aZ_`]
@HWI-EAS443:3:62:1222:1742#0/1
ACTTCTTGCTGTATCTTGATGTCCCCACAAAAACATATGC
+HWI-EAS443:3:62:1222:1742#0/1
a]aa]aaaa`__`_aaaa`a^[_]`_a_a`X`^`__^
@HWI-EAS443:3:62:1267:1990#0/1
CTTCCTCTGAGTATTTTGGGTAGTCATAAGTCCCATTTTT
+HWI-EAS443:3:62:1267:1990#0/1
¥abbaabbabbbbbbbaabb]bb_Saabbba`a]b`bbbb
@HWI-EAS443:3:62:1290:204#0/1
TAGATTTCCAGTTGCTTCGAATGTTATTTTGTCTCCCGGC
+HWI-EAS443:3:62:1290:204#0/1
`ba__bababbaaabaab`aab`a_aaaaa`a`_¥aaa
@HWI-EAS443:3:62:1334:1255#0/1
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+HWI-EAS443:3:62:1334:1255#0/1
aa]a`]V`_V_MQTZU^T]TZ^_aa`_a]`baTYU]Ta
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TGCTGGCTGGATCCTGGGAAATCCAGAGTGTGAATCACTC
+HWI-EAS443:3:62:1343:476#0/1
¥Za_WY[aa___]Z^_^`aa]X]¥a^^_aaa^Z`]]`
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+HWI-EAS443:3:62:1377:1339#0/1
¥b^]Raa^aaaYa]_a_a__a__^_^YR¥__a__OS]_^
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GAAGTCCTCGTGTATGGGGCATTACCATCCATCTACTA
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X`[bH]_ab_aa_aabbbab`V`U[aaab^b`_]U`_a_T
@HWI-EAS443:3:62:1411:1442#0/1
AGTAATCTCGTCAATGGCATTCTGTGTGCTCTCAGGTCG
+HWI-EAS443:3:62:1411:1442#0/1
a`YbbU`^R^U`Y[Xba[ZaaIab[¥[]¥¥^XUN]_L[a`
@HWI-EAS443:3:62:1414:1613#0/1
CATTCTGTGTGCTCTTCAGGTCGGCTGCATATCCTGACCC
+HWI-EAS443:3:62:1414:1613#0/1
aabbabbaa__]aabb`a`]]_`[aaa`aaba[Y`^aa]a
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CTTCTTGCTGTATCTTGATGTCCCCACAAAAACATATGCA

@HWI-EAS443:3:62:198:264#0/1
GGGCCATGAACCTTGTCTTGGGGAATATCTCAAACCTTTCA
+HWI-EAS443:3:62:198:264#0/1
aaZ_a]YRH^aY^a`GWY^a[[]]¥`NS[WP_[]][RHT]TYUT`W
@HWI-EAS443:3:62:227:1457#0/1
CAAGAAGTTCAAGCCGAAATAGCAATAAGACCCAAAGTG
+HWI-EAS443:3:62:227:1457#0/1
abbabb__bbbb`b`^^]baa_aaaaabaaaa`a_`Y`
@HWI-EAS443:3:62:247:1541#0/1
ATGTTTTTGTGGGACATCAAGATACAGCAAGAAGTTCAA
+HWI-EAS443:3:62:247:1541#0/1
[[^S_aa_aab`aaaaa_aaaa`baa`aa`^a`aW¥a_a
@HWI-EAS443:3:62:328:374#0/1
CACCATCCATCTACTAGTGCTGACCAACAAAGTCTCTATC
+HWI-EAS443:3:62:328:374#0/1
abbaaaaabaabaa`a]a`_aaa`aba_a_`^a`_`_`_`
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+HWI-EAS443:3:62:329:1398#0/1
ab_]S]¥a]SN[a`[XaWaa`_aX`[PY_`^`[`]Z_`¥[^
@HWI-EAS443:3:62:330:916#0/1
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+HWI-EAS443:3:62:330:916#0/1
aaaba^a`a]aa`[^aZ`^`_W`^`^¥¥_`¥W¥^U[XYNY
@HWI-EAS443:3:62:334:407#0/1
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+HWI-EAS443:3:62:334:407#0/1
aaaT_a`^`ab`]_a`YVa]PX^¥^Va]`a^`ZXU¥`_`_`
@HWI-EAS443:3:62:365:327#0/1
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+HWI-EAS443:3:62:365:327#0/1
ab`_a[ab_baabb`bbaab_aabaaaa`aa_aa]a[a_]`
@HWI-EAS443:3:62:378:1063#0/1
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+HWI-EAS443:3:62:378:1063#0/1
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@HWI-EAS443:3:62:390:1843#0/1
ATGGGACTTATGACTACCCAAAATACTCAGAGGAAGCAAA
+HWI-EAS443:3:62:390:1843#0/1
a`¥a`````a`^aa`````aa^`]^`¥^`a`_`W[YUR]`^
@HWI-EAS443:3:62:469:1193#0/1
TCATAATCGATGAAATCTCCTGGGTAACACGTTCCATTGT
+HWI-EAS443:3:62:469:1193#0/1
`_`[`[]]a_VPbaSSUY[aVP¥^S]HGFH¥^]X][BBBBB
@HWI-EAS443:3:62:495:1141#0/1
CACTTCCATGCACGTGTTATCGCATTGTGGTAAAATTC
+HWI-EAS443:3:62:495:1141#0/1
]PO`_¥`a`¥Y[]`^]a`Z_[XNY_`aY[X`¥L][^XZ]¥
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@HWI-EAS443:3:62:869:824#0/1
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+HWI-EAS443:3:62:869:824#0/1
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+HWI-EAS443:3:62:899:1683#0/1
`b^a[^a^aaa]a`^aaaaa[VYQ`_`a`aaa`_Sa__a¥`
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+HWI-EAS443:3:62:941:91#0/1
a_a_aRYR^a]WY`W¥]X_`Y__`]QYUXR]V^RO_]XXX
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+HWI-EAS443:3:62:944:538#0/1
aa_a`X^VWQ_Q_aZP]ZaU¥a_____^`]U¥^XXBBBBB
@HWI-EAS443:3:62:945:685#0/1
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+HWI-EAS443:3:62:945:685#0/1
a_[a__ZXVJT[P[Z^__X^Za[^Z_YXWOQV VX]]W[WV
@HWI-EAS443:3:63:1018:809#0/1
GAAGCTTTTTGCTCCAGCATGAGGACATGCTGCCGTTACA
+HWI-EAS443:3:63:1018:809#0/1
¥_X¥V_[aUQU^SZ¥ZZ]HYab]UUO_W`RZ¥[OXN`XTU
@HWI-EAS443:3:63:1038:1550#0/1
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+HWI-EAS443:3:63:1038:1550#0/1
aaaaa`a`aaa`_aaaa_a_a`a`aa`^_Z`_a¥]``_]_
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+HWI-EAS443:3:63:1050:1165#0/1
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@HWI-EAS443:3:63:1066:936#0/1
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+HWI-EAS443:3:63:1066:936#0/1
a^aaabaaaaa``aaa]^aaa``aa``aa]`a``_a`a
@HWI-EAS443:3:63:1081:352#0/1
TGGCATTCTGTGTGCTCTTCAGGTCGGCTGCATATCCTGA
+HWI-EAS443:3:63:1081:352#0/1
`ba__¥__a^Za_aabab]ZaaaU[]``]_JWY`US¥VR]
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+HWI-EAS443:3:63:1083:1145#0/1
^``bbbabbbb`bbaababba`]aa`aaaa]aa`a_`aa
@HWI-EAS443:3:63:1142:1218#0/1
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+HWI-EAS443:3:63:1142:1218#0/1
abb`bbbab]_a]`X]aaa_]``^¥`Za][a`^`````]a
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+HWI-EAS443:3:63:1149:574#0/1
^Zab¥ba_U_bW[`¥a^Z_aW`]a_b`XV¥_[]`a`¥¥[]
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GCTTTTTGCTCCAGCATGAGGACATGCTGCCGTTACACCT
+HWI-EAS443:3:63:1180:1045#0/1
a`a`aa`U[`_UZ]]FL[_X¥`_W_[XXY[ZKRYNRHVS
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TGAGGACATGCTGCCGTTACACCTTTGTTTCGAGTCATGAT
+HWI-EAS443:3:63:1192:365#0/1
abbb_]aa_Z^a]aaXY]Ya]a]]_][]X]YSQ]_`_[]
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+HWI-EAS443:3:63:1231:1508#0/1
a`ba`_`aabaaa_aaa^a`aa]_]^a`_Z__`¥W`^`_
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GGGAAATCCAGAGTGTGAATCACTCTCCACAGCAAGCTCA
+HWI-EAS443:3:63:1233:578#0/1
^¥`[bbaa`_T^_Sb_aaa`aa_abaa_____aa] []a^^`
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+HWI-EAS443:3:63:1234:1736#0/1
aaSWV_aa[L`bUaaa¥aaY`_¥]^`[ZGaVURW]_YN¥¥
@HWI-EAS443:3:63:1292:1088#0/1
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+HWI-EAS443:3:63:1292:1088#0/1
`baa`aa`UW__Yba^`X`b`^¥`_W^aa_]YW_aV__
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+HWI-EAS443:3:63:1294:276#0/1
a_aa`aaaa`aaa_aaaaa`]]_baa_^_a^aa^a_]^`
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+HWI-EAS443:3:63:1349:1400#0/1
aaa_^Vbabbaba_bbbaabaaabababba`a`aaaa_a[
@HWI-EAS443:3:63:1394:1784#0/1
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+HWI-EAS443:3:63:1394:1784#0/1
`Y]a`Ta¥]a¥H¥¥aa^[a_]Y¥a___Z___`WLZPU[`a
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+HWI-EAS443:3:63:142:624#0/1
aaaa`aaaab`aa`a`a__¥[_[_Za`_`^¥^^¥__TW_WV
@HWI-EAS443:3:63:1430:901#0/1
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+HWI-EAS443:3:63:1430:901#0/1
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@HWI-EAS443:3:63:1441:102#0/1
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+HWI-EAS443:3:63:1441:102#0/1
abab_]aa`_a_abab`abaaba^NVa^]_``_a[][_`

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+HWI-EAS443:3:63:1460:1924#0/1
a^H¥ZU`a[_X^]TP_aa]ZYM_a^YUJX`ZSSPYZ]P¥a
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CCGGCTTGAACCTTCTTGCTGTATCTTGATGTCCCCACAAA
+HWI-EAS443:3:63:1489:140#0/1
a^_``_Z¥]__`_Y_aaa]ZZ][X[^¥YYZPRVZWA`_]_Y
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+HWI-EAS443:3:63:1544:305#0/1
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@HWI-EAS443:3:63:1590:1555#0/1
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+HWI-EAS443:3:63:1590:1555#0/1
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@HWI-EAS443:3:63:1590:322#0/1
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+HWI-EAS443:3:63:1590:322#0/1
aPOUZ¥P_[`U]_V]^aaaa^[U[_UP¥_]WU¥U`^RYBB
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+HWI-EAS443:3:63:1596:98#0/1
aaaaa_abba_a__b_ab^aaaa`_]¥W^`Y^`_Y_YZY
@HWI-EAS443:3:63:1616:1079#0/1
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+HWI-EAS443:3:63:1616:1079#0/1
aaa_aaaa_b_``_a^bbaaabba`]a`[X_`aaaa[T`^
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+HWI-EAS443:3:63:163:1131#0/1
a`a`V¥aaa]ab`aa^Wa`a`_]`V_`^`_`_`[_`_
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+HWI-EAS443:3:63:1711:384#0/1
aa`Vaaaba`abaa`abbaa_aaY`¥_`_`^aaaa^Z_``
@HWI-EAS443:3:63:1730:890#0/1
CGTCAATGGCATTCTGTGTGCTCTTCAGGTCGGCTGCATA
+HWI-EAS443:3:63:1730:890#0/1
[`aW]ZY]U]`[a_``[]0]_]`^]a`ZZS[]^Za_TTV
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+HWI-EAS443:3:63:1767:1613#0/1
aaaa`aa_abba[`a_aa_`a_`a_W^X`aaa¥__`^
@HWI-EAS443:3:63:198:109#0/1
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+HWI-EAS443:3:63:198:109#0/1
a^aaaaaba¥``][`__Ya_S__`^W¥_WW¥WW¥U¥VWSZ
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+HWI-EAS443:3:63:23:1374#0/1
_`bbbbbbba^abbZ]a`^Taabb`aaa_bY`a^`a]]`Z
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+HWI-EAS443:3:63:363:882#0/1
aabb¥`ZWaaaa`aa_ba`_LY`_Z[`_¥¥^`_W`ZXY
@HWI-EAS443:3:63:369:147#0/1
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+HWI-EAS443:3:63:369:147#0/1
abb^YZabaaaaaaaa_aaaaa_a`^^^`_¥W¥¥^Y[W]
@HWI-EAS443:3:63:384:1885#0/1
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+HWI-EAS443:3:63:384:1885#0/1
a¥a`a]`¥`^`a`Z_a`_a__a__¥`_^]]P[YP_¥XX
@HWI-EAS443:3:63:443:1344#0/1
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+HWI-EAS443:3:63:443:1344#0/1
Z]G]Y[_b`baa`aa]`aba]`]ab_a_ba_aZaaaY`_]_
@HWI-EAS443:3:63:491:427#0/1
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+HWI-EAS443:3:63:491:427#0/1
ab`]^KabUb¥¥aW[`aabbaYT_QNP__UTPaWUa`a[V
@HWI-EAS443:3:63:49:642#0/1
CATCTACCATCCCTGTCCACCCCTTCAATGAAACCGGC
+HWI-EAS443:3:63:49:642#0/1
^FV_]R]_Z_`a¥T_HZ]_¥Z_a]]TVYTX¥MBBBBBBBB
@HWI-EAS443:3:63:529:1030#0/1
TGGTGAATGCCCCATAGCACGAGGACTTCTTCCCTTAT
+HWI-EAS443:3:63:529:1030#0/1
a^`_abbabba`_aaa_aaaaaaZaaa^__`_aaa_a```
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+HWI-EAS443:3:63:53:1552#0/1
a_R`]^aYZF`U[[a_`XXa]`_]_`a_Y]a_¥[V_`R[]
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+HWI-EAS443:3:63:545:1647#0/1
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@HWI-EAS443:3:63:586:849#0/1
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+HWI-EAS443:3:63:586:849#0/1
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@HWI-EAS443:3:63:592:234#0/1
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+HWI-EAS443:3:63:592:234#0/1
ab^aaaaa`aa`a`aa`a`___^]_^]`^`^V[]TTWWZ
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+HWI-EAS443:3:63:608:779#0/1
[V]UX]]`¥YMN_Z_JVVLQVZWTZaa¥ZFVO]^BBBBBB

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+HWI-EAS443:3:63:60:1253#0/1
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+HWI-EAS443:3:63:610:1601#0/1
_U[Q]IJaaL]_Z_ZU]]a_]_YZ[^`S]^]SY_BBBBBB
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`a[abba]Z`]`baa`a`Y]]b`a^aba_V`aa]_`^aa
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+HWI-EAS443:3:63:643:1940#0/1
`_b¥^Zab`X`_`¥b¥]ab`_[Y`a^^a`aa`a^_X]a
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+HWI-EAS443:3:63:644:569#0/1
aa`aaa`aaaa`a`_`aaa_a^aaaa`_^¥X^`_`]`^`¥Z
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+HWI-EAS443:3:63:702:1059#0/1
aaaaaaaa`a_Va^_a^`aa`aaa`a_]¥^__Z^]]_[Y[
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+HWI-EAS443:3:63:721:1322#0/1
S]U_R]Z¥¥UWPY^^^[QR]^ZXY¥OW`XSTNYN_TOXTZ
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+HWI-EAS443:3:63:722:46#0/1
a`aa`¥`abb`b^`aaaabaaZaa^aaa__aZ`T¥_aaa^
@HWI-EAS443:3:63:763:502#0/1
AAATGCGATAACACGTGCATGGAAAGTGTCAAAAATGGGA
+HWI-EAS443:3:63:763:502#0/1
¥_]ZPY¥Ya^`_`a[[`aa¥XW_Y[_Z¥]^]a¥WT]]`Z
@HWI-EAS443:3:63:767:397#0/1
CTTGAACCTTCTTGCTGTATCTTGATGTCCCCACAAAACA
+HWI-EAS443:3:63:767:397#0/1
]^abb`b`a^^`bbbb`bbabbba^aa`_]¥`YZ_aba
@HWI-EAS443:3:63:784:2027#0/1
GCTGGCTGGATCCTGGGAAATCCAGAGTGTGAATCACTCT
+HWI-EAS443:3:63:784:2027#0/1
ab`_`aa`_`¥aaZ¥_a]_^]]`^^S]Z`Y``]]__Z`^
@HWI-EAS443:3:63:835:227#0/1
GAAGCCAGTTAAAAACAATGCCAAGGAAATTGGAAACGG
+HWI-EAS443:3:63:835:227#0/1
abaa]aba`aaaa`_aaaa`a__aa__`^`_]_[Wa_
@HWI-EAS443:3:63:86:2034#0/1
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+HWI-EAS443:3:63:86:2034#0/1
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+HWI-EAS443:3:63:878:1740#0/1
^_HYbZW_bbY`aYY^`bbWP¥_` [Z`__P_J¥TaP_¥F]
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+HWI-EAS443:3:63:890:620#0/1
`¥abb`bba`_^Qa]XS¥a_]aW[]`KW¥a^`U]`_^BB
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+HWI-EAS443:3:63:947:434#0/1
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+HWI-EAS443:3:63:966:1849#0/1
^][[_W^_aaa`_^aa¥a^`_a_aa^W`_^____]_XVZ__
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TGCCGGTTTCATTGAAGGGGGGTGGACAGGGATGGTAGAT
+HWI-EAS443:3:63:999:1175#0/1
Y^abb_Xaa_Y_^XZ__^^^D¥]_¥]`aa[]a]TZ__^
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+HWI-EAS443:3:64:1014:1456#0/1
a`^¥]`_`baaYY[_¥b`a^]ab`a__^`^[[aaa`]____
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CAGAATGCAGATGCATATGTTTTTGTGGGACATCAAGAT
+HWI-EAS443:3:64:1064:1116#0/1
abaabaabaaaabababaa`aaaa_aa__a^a``a`aa_
@HWI-EAS443:3:64:1082:1033#0/1
GCTGGTGTTTATAGCACCCCTTGGGTGTCTGACAAGTTGTA
+HWI-EAS443:3:64:1082:1033#0/1
a`_¥_¥ba^`^^aa[`]__a]aaVaT]TZ[Y`_a]`¥Y`
@HWI-EAS443:3:64:1083:890#0/1
CTGGGAAATCCAGAGTGTGAATCACTCTCCACAGCAAGCT
+HWI-EAS443:3:64:1083:890#0/1
aaa^]`aaaa^aa`a]a_a_aaaa_`_`_`a_a_`____]
@HWI-EAS443:3:64:1091:1006#0/1
CGATTGCAATACAACCTTGTGACACCCAAAGGGTGTCTATA
+HWI-EAS443:3:64:1091:1006#0/1
abbbbbbbbbbbabaabbaab` `_baaabaaaa]aaaaaa
@HWI-EAS443:3:64:113:106#0/1
ATCTCGGTACCACTAGATTTCCAGTTGCTTGAATGTTAT
+HWI-EAS443:3:64:113:106#0/1
aa``aaa¥]_a__a¥a¥_a_^__aZ^__^^]_R]__Z]Z_

@HWI-EAS443:3:64:1140:1358#0/1
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+HWI-EAS443:3:64:1140:1358#0/1
aaaaaa`aaa`a__[____[Y_^_UUZ]^ZU^_]VX]Y]
@HWI-EAS443:3:64:1158:232#0/1
GAACTGTGTATTTCATCTTTTCAATAACAGAATTTACTTTG
+HWI-EAS443:3:64:1158:232#0/1
aaa`ab_b`abb_aa`baaaaa`aaa^aa``aaa`]aaaa
@HWI-EAS443:3:64:1166:1397#0/1
CTGGTGTATAGCACCTTGGGTGTCTGACAAGTTGTAT
+HWI-EAS443:3:64:1166:1397#0/1
abbbababbabbabaaa`ba^ba¥b_a_a`__]a_`a^`a
@HWI-EAS443:3:64:1196:936#0/1
AAAACAATGCCAAGGAAATTGGAAACGGCTGCTTTGAATT
+HWI-EAS443:3:64:1196:936#0/1
¥bb¥_ba_b`U`[]¥[a_aaa_¥aaaa_ZIZ`^a¥JRLW¥
@HWI-EAS443:3:64:1240:842#0/1
ATTCATCTTTTCAATAACAGAATTTACTTTGTTAGTAATC
+HWI-EAS443:3:64:1240:842#0/1
^`_abb^bbbab`ab¥b`b^baab_W^`_bb]bbbbaaa]
@HWI-EAS443:3:64:1253:1929#0/1
GCAGCCGACCTGAAGAGCACACAGAATGCCATTGACGAGA
+HWI-EAS443:3:64:1253:1929#0/1
_X¥_ZYT00X]Z]a[[X0THVL[V]]]RVY^]XNVPFSNO
@HWI-EAS443:3:64:1262:128#0/1
GGAACGTGTTACCCAGGAGATTTTCATCGATTATGAGGAGC
+HWI-EAS443:3:64:1262:128#0/1
abaaab`babaa`aabaab^aaa``a_b_a``ba`a`]`^
@HWI-EAS443:3:64:1307:1146#0/1
TCCTCGTGCTATGGGGCATTACCATCCATCTACTAGTGC
+HWI-EAS443:3:64:1307:1146#0/1
aaaa```¥Q_`X^a_YQRa¥__aP`PPX_TX[_XaSSXVW
@HWI-EAS443:3:64:1312:1408#0/1
ATCGATGAAATCTCCTGGGTAACACGTTCCATTGTCTGAA
+HWI-EAS443:3:64:1312:1408#0/1
¥VO_SY`ZR¥Z¥]`¥`a[`M¥J]^`VZ^_PTVaa[]¥^WY
@HWI-EAS443:3:64:1321:1614#0/1
GTGGGGACATCAAGATACAGCAAGAAGTTCAAGCCGGAAA
+HWI-EAS443:3:64:1321:1614#0/1
aT_^]aVYY_[]a_ZZY]a_SJ`_PS]VPP_^^WO]^]R]
@HWI-EAS443:3:64:1344:672#0/1
AAGTCCTCGTGCTATGGGGCATTACCATCCATCTACTAG
+HWI-EAS443:3:64:1344:672#0/1
a¥GZ`aaaa_`]aa``Z`aX^`^`_X__]^`X^a]____
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+HWI-EAS443:3:64:1364:1696#0/1
aa_S^_abaa_b_aYW_`JX^]`U``T^aaaUK^¥TYRT¥
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@HWI-EAS443:3:64:1745:957#0/1
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+HWI-EAS443:3:64:1745:957#0/1
a`aa`aaaa`aaa`ZY^`Z`^aa`__`^`_]¥X_X[¥^X^_
@HWI-EAS443:3:64:1756:843#0/1
ACTTCTTGCTGTATCTTGATGTCCCCACAAAACATATGC
+HWI-EAS443:3:64:1756:843#0/1
aabb_bababa`a`abaa^`^^`_]`a^a^`a`__`_
@HWI-EAS443:3:64:1766:901#0/1
GCTGGCTGGATCCTGGGAAATCCAGAGTGTGAATCACTCT
+HWI-EAS443:3:64:1766:901#0/1
a`^baaa]a]X`¥]W_^]`^^`¥YNWU`P][`YTWYYV[
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ATTTCTTTTTTAACTAGCCATATTAATTTTTGTAGAAG
+HWI-EAS443:3:64:197:1682#0/1
abbaba_aaaaaaaaa`a`aaa`aa]_aa_aa^`aY`_¥
@HWI-EAS443:3:64:222:464#0/1
GGGCATTACCATCCATCTACTAGTGCTGACCAACAAAG
+HWI-EAS443:3:64:222:464#0/1
aZ_aa`]`a]a¥a_`]_Q__`U¥V[TaYY¥WY`VYV_^Z
@HWI-EAS443:3:64:272:73#0/1
CTCCCGGCTCTACTAGTGCCAGTAATAGTTCATTCTCCC
+HWI-EAS443:3:64:272:73#0/1
aaaaba`a`a]¥Z`¥^V¥[_`[aZ`^`__][SX^¥[¥]V[
@HWI-EAS443:3:64:292:2011#0/1
GAAGTCCTCGTGCTATGGGCATTACCATCCATCTACTA
+HWI-EAS443:3:64:292:2011#0/1
a__]bbaa`^^`¥_XYYSW¥]_^`^Z`V^[]]W`WWY
@HWI-EAS443:3:64:333:1381#0/1
CTGGTGTATCTGAAATGATAATACCAGATCCAGCATTCT
+HWI-EAS443:3:64:333:1381#0/1
aa_PX¥^[]`aaa``_aaaa_aa__a`a_a_a_^]`__a
@HWI-EAS443:3:64:350:1099#0/1
CGATGAAATCTCCTGGGTAACACGTTCCATTGTCTGAACT
+HWI-EAS443:3:64:350:1099#0/1
a`^`^_]`VXZ_a_[¥[QQYY_[YQQZYPSWWYWXVSZVYW
@HWI-EAS443:3:64:361:227#0/1
GAAATTGAAACGGCTGCTTTGAATTTTACCACAAATGCG
+HWI-EAS443:3:64:361:227#0/1
YYYYbaaY¥^^`aaaa^00[_FKS[_`_STWG[`BBBBBB
@HWI-EAS443:3:64:368:1086#0/1
CTTTGGGTCTTATTGCTATTTCCGGCTTGAACCTTCTGCT
+HWI-EAS443:3:64:368:1086#0/1
aRS`VaUTa]RIYMPNLPQTWZ`ZRPNYOOSWBBBBBBBB
@HWI-EAS443:3:64:372:980#0/1
AAAGAGTTCAACCACCTGGAAAAAGAATAGAGAATTTAA
+HWI-EAS443:3:64:372:980#0/1
a__V_ZZ_a^a__ba_]aa¥SWU]a¥SZ`_Y`R[OTXW]]
@HWI-EAS443:3:64:379:528#0/1
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+HWI-EAS443:3:64:379:528#0/1
aba`Y[[abaaaaaaaa_a^a`^aW_[U^`_XX_^¥____^¥
@HWI-EAS443:3:64:383:1695#0/1
CTGGTGTATTATAGCACCTTGGGTGTCTGACAAGTTGTAT
+HWI-EAS443:3:64:383:1695#0/1
a^aaRa_bbba`_aaaa`a`__]_^^^a`_¥]`¥]_¥
@HWI-EAS443:3:64:386:443#0/1
AGCCGACCTGAAGAGCACACAGAATGCCATTGACGAGATT
+HWI-EAS443:3:64:386:443#0/1
aabbbabbbb`aaaabbaa]^^`aaa_aaaa`aaa_a^
@HWI-EAS443:3:64:392:319#0/1
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+HWI-EAS443:3:64:392:319#0/1
a]WZMWOZ]U]UWZ¥Q[WSSV]XNYOVTVSY[VLV]YYWZ
@HWI-EAS443:3:64:407:206#0/1
GCTCAATTGCTCTTAGCTCCTCATAATCGATGAAATCT
+HWI-EAS443:3:64:407:206#0/1
aaaaaaaaa_a__`__`^_^_^^^__¥XV]^VZ¥
@HWI-EAS443:3:64:417:1904#0/1
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+HWI-EAS443:3:64:417:1904#0/1
_aab`Za`bbabb``^`abaabbaaaaa_aaabbaa`
@HWI-EAS443:3:64:439:144#0/1
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+HWI-EAS443:3:64:439:144#0/1
aaaaaaaa`]Z`__`¥_YYXTTQ[UYPYZYUUYUUS
@HWI-EAS443:3:64:43:225#0/1
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+HWI-EAS443:3:64:43:225#0/1
a`^a`aa_a`]aa__T]¥`X¥¥Z^a^VVQZVSY[TSTS
@HWI-EAS443:3:64:440:2036#0/1
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+HWI-EAS443:3:64:440:2036#0/1
_b`bababbbababbaaab]IY`a`Ma_babab_b[
@HWI-EAS443:3:64:474:1392#0/1
TGCATATGTTTTTGTGGGACATCAAGATACAGCAAGAAG
+HWI-EAS443:3:64:474:1392#0/1
a^baa^aaZ`_bbaTa`_ZXaa_aa`aZ^aaba_aa¥a_a
@HWI-EAS443:3:64:49:1015#0/1
ATGTTTTTGTGGGACATCAAGATACAGCAAGAAGTTCAA
+HWI-EAS443:3:64:49:1015#0/1
¥^`Z^Y_]V^b`ZQa____]^WF[R_Z`_¥_[SXN^WVUW[
@HWI-EAS443:3:64:509:1113#0/1
ATCCGATCACAATTGGAAAATGTCCAAAATATGTAAAAAG
+HWI-EAS443:3:64:509:1113#0/1
]P]]`]^VYX[TYW^]YPYQZ`YZPFIYJUWYWDUZZBBB
@HWI-EAS443:3:64:549:795#0/1
GTCCCCACAAAACATATGCATCTGCATTCTGATAGAGAC
+HWI-EAS443:3:64:549:795#0/1
¥U¥^`_`_a_¥S__a[] [Y[X[`_aX¥^a_]a]R`Z]__Z

@HWI-EAS443:3:64:583:424#0/1
CCCCAGGGAGACTACCAGTACCAATGAACTGGCGACAGTT
+HWI-EAS443:3:64:583:424#0/1
abbb_]ba]a`aa_aa^_Y`Xa][][]^X]^[]aaXZ[`YU
@HWI-EAS443:3:64:605:708#0/1
AAAAAGTTGATGATGGTTTCCTGGACATTTGGACTTACAA
+HWI-EAS443:3:64:605:708#0/1
¥U_HP_TW__¥`Y`^_TYZX_X_XZ[_a^¥VWRZ]]VYV]
@HWI-EAS443:3:64:60:1013#0/1
GGGGTGGACAGGGATGGTAGATGGATGGTACGGTTATCAC
+HWI-EAS443:3:64:60:1013#0/1
a[Za[ba__R_aa`]aa¥aV^[XZ^Z__W_[W_S__[Y^Y
@HWI-EAS443:3:64:680:623#0/1
TGCTGGCTGGATCCTGGGAAATCCAGAGTGTGAATCACTC
+HWI-EAS443:3:64:680:623#0/1
aba`baa`aaa__b)``Z_aaaaaa`a`¥a[aaaa`a¥¥Z
@HWI-EAS443:3:64:729:1059#0/1
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+HWI-EAS443:3:64:729:1059#0/1
WWb````¥bbbb`^aa__a`^`a__b`a_bY^^a`a^aV`
@HWI-EAS443:3:64:734:1847#0/1
GGGGACATCAAGATACAGCAAGAAGTTCAAGCCGGAAATA
+HWI-EAS443:3:64:734:1847#0/1
a_a]aaa]aaa`_`aa_`a_a]_V^_a_]`^_^_`_`
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GGCATTCTGTGTGCTCTTCAGGTCCGGCTGCATATCCTGAC
+HWI-EAS443:3:64:769:732#0/1
a_bbbb`b`aa_a_a`bbaaba¥a)`aaaaaab````_`
@HWI-EAS443:3:64:776:603#0/1
CAACAAAGTCTCTATCAGAATGCAGATGCATATGTTTTTG
+HWI-EAS443:3:64:776:603#0/1
a_a_aaaa]aa`a_^_aa_`]X```XTa^)]_`Y^^`a_^
@HWI-EAS443:3:64:828:1806#0/1
CGGTACCCTAGATTTCCAGTTGCTTCCGAATGTTATTTTG
+HWI-EAS443:3:64:828:1806#0/1
aba_baabaaa`aaaaaa^_a`b`_`a_`aa]^__a`a_
@HWI-EAS443:3:64:832:1563#0/1
GGTAAATGTAACATTGCTGGCTGGATCCTGGGAAATCCAG
+HWI-EAS443:3:64:832:1563#0/1
^aR^a¥^babbbbaabba]Xaaa_```^^]a_^_a[U_aa
@HWI-EAS443:3:64:880:1809#0/1
GCCAGTTAAAAACAATGCCAAGGAAATTGGAAACGGCTG
+HWI-EAS443:3:64:880:1809#0/1
aabb]bbabbb``¥a^Z`]a`]W`b`ba_^`a`[a^]_
@HWI-EAS443:3:64:896:79#0/1
GAAGACAAGCATAACGGGAACTATGCCAACTAAGAGGGG
+HWI-EAS443:3:64:896:79#0/1
a[^_WG][aZM¥W`^a^_UY]Z^]YUQSQXX¥UZ¥UY^ZZ
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+HWI-EAS443:3:64:898:1820#0/1
aab`_UX_abVXH_[_aa¥X_¥U^`aa^H[`]_T`_0]U
@HWI-EAS443:3:64:899:357#0/1
GCCGGTTTCATTGAAGGGGGTGGACAGGGATGGTAGATG
+HWI-EAS443:3:64:899:357#0/1
aabbb_baa_baaa`aa]aUa`___`¥^^_a^U```Ua
@HWI-EAS443:3:64:906:767#0/1
CATCATTTGAAAGTTTGAGATATCCCCAAGACAAGTTC
+HWI-EAS443:3:64:906:767#0/1
`[a`ab`aaaa`YG_^`Y]`_`_a`[¥aaaa`^Y__`
@HWI-EAS443:3:64:90:1543#0/1
GGCTGCTTTGAATTTTACCACAAATGCGATAACACGTGCA
+HWI-EAS443:3:64:90:1543#0/1
abb_Z¥^a¥Z_]aaaaa``^_[R[___¥Y_]a][YU_]`
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+HWI-EAS443:3:64:959:304#0/1
YV`aba¥ab_b_abbYYaW^b`ba[^`_]_^Z¥_]_Z_
@HWI-EAS443:3:64:985:722#0/1
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+HWI-EAS443:3:64:985:722#0/1
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@HWI-EAS443:3:64:993:339#0/1
TGGGAGGCTGGTGTATAGCACCCCTGGGTGTCTGACAA
+HWI-EAS443:3:64:993:339#0/1
abbbbaabba_baabbbb_baa``_aaa`]a__a``_a_
@HWI-EAS443:3:64:995:1409#0/1
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+HWI-EAS443:3:64:995:1409#0/1
`bbbb_b_¥ab`a_bbb¥abba`Q^ZabaaY_U_aaa_`
@HWI-EAS443:3:65:1051:373#0/1
GGAAATTGAAAACGGCTGCTTTGAATTTTACCACAAATGC
+HWI-EAS443:3:65:1051:373#0/1
aa_aaaaa`__Za^_a_KY_a[X_S`_`WTHYQ]BBBBB
@HWI-EAS443:3:65:1075:979#0/1
GAACTGTGTATTCATCTTTTCAATAACAGAATTTACTTTG
+HWI-EAS443:3:65:1075:979#0/1
_SV^_YP^`baaaaa`a`¥]UVZa_¥XY_a[a`]S][^]
@HWI-EAS443:3:65:1083:1605#0/1
GAAAGAAGTCCTCGTGCTATGGGGCATTACCATCCATCT
+HWI-EAS443:3:65:1083:1605#0/1
aaaaa]`W`baaaa`aaa`_a]_aa`aaa`_b___a_]`
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+HWI-EAS443:3:65:1095:866#0/1
aaaaaT]a`W^bab`Z`aaa_aXP_VZ`]aa`]`a¥ZYaa
@HWI-EAS443:3:65:110:1274#0/1
GGAGATTTTCATCGATTATGAGGAGCTAAGAGAGCAATTGA
+HWI-EAS443:3:65:110:1274#0/1
``a^R_aabaaaaaaabaaaaa`aa]_a__`X`]][^

@HWI-EAS443:3:65:1114:700#0/1
TGCTGGCTGGATCCTGGGAAATCCAGAGTGTGAATCACTC
+HWI-EAS443:3:65:1114:700#0/1
`_____Z¥¥b]W_^__Z^YWY¥a`]^Y[]YYQX]_¥]_XZT
@HWI-EAS443:3:65:1138:821#0/1
CCGTTACACCTTTGTTTCGAGTCATGATTGGGCCATGAACT
+HWI-EAS443:3:65:1138:821#0/1
abbabbaba_a`aa_aaaa]_aaaaaa`_``Z^` [[ZV¥
@HWI-EAS443:3:65:126:719#0/1
GTGGGGACATCAAGATACAGCAAGAAGTTCAAGCCGGAAA
+HWI-EAS443:3:65:126:719#0/1
a`` [WRZZPZaYZ`aYaaaa^baZ¥U[NZ]a``]]_¥Q[^
@HWI-EAS443:3:65:1372:857#0/1
TTCCTCTGAGTATTTTGGGTAGTCATAAGTCCCATTTTGT
+HWI-EAS443:3:65:1372:857#0/1
a`a`X^aa]a_a[___aa`TZ` `W__Z]R_U_a^Ya` __^a
@HWI-EAS443:3:65:1373:588#0/1
GATAACCGTACCATCCATCTACCATCCCTGTCCACCCCC
+HWI-EAS443:3:65:1373:588#0/1
aWP`aa__VR[P^TYJ[_^_a_^_[[_`YX^RMV___¥B
@HWI-EAS443:3:65:1454:572#0/1
GCTGGCTGGATCCTGGGAAATCCAGAGTGTGAATCACTCT
+HWI-EAS443:3:65:1454:572#0/1
K_aaabbbb[bbba_abbbaab`b_^a[[Ubbbaababab
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+HWI-EAS443:3:65:1458:1216#0/1
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@HWI-EAS443:3:65:146:2027#0/1
AAGAAATAGATGGGGTAAAGCTGGAATCAACAAGGATTTA
+HWI-EAS443:3:65:146:2027#0/1
a^] ^V¥¥YX_a`SYa^aYZY¥PKT_Y¥^_^ [^[XXYYWS^
@HWI-EAS443:3:65:1480:599#0/1
TACACCTTTGTTTCGAGTCATGATTGGGCCATGAACTTGTC
+HWI-EAS443:3:65:1480:599#0/1
abbbaababbaaba_b`_aa_]aaaaa` ``a`_^aaa^^
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+HWI-EAS443:3:65:1561:1256#0/1
abaaabbab`aab_a_aaaaa`aa`aaa¥a`aWa]_a[a]
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+HWI-EAS443:3:65:1612:170#0/1
¥bbbbbaYY¥a]b`Vbbaabbbb`¥_[UQZZ_`]a]a`aa
@HWI-EAS443:3:65:1688:1138#0/1
GTGGTTGAACTCTTTACCTACTGCTGTGAACTGTGTATTC
+HWI-EAS443:3:65:1688:1138#0/1
a_baZabaa_a[^aaaa`a__a^Z^^Zb^]]aaW]^[a`X
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AATTTTTGTAGAAGCTTTTTGCTCCAGCATGAGGACATGC

+HWI-EAS443:3:65:1713:85#0/1
^abaaaX_b[][_bVa`baab`]a^`a^^XWJ_¥PRW_aU
@HWI-EAS443:3:65:1770:93#0/1
ATGAAATCTCCTGGGTAACACGTTCCATTGTCTGAACTAG
+HWI-EAS443:3:65:1770:93#0/1
_¥`YY^abaV]X_b_RXUVZW]I¥¥YVYYa^YZ[WVXUTL
@HWI-EAS443:3:65:177:258#0/1
GCTCTTCAGGTCGGCTGCATATCCTGACCCCTGCTCATTT
+HWI-EAS443:3:65:177:258#0/1
ab¥`a`aVTZUY[``XN[a_a^WWQQU`¥^_SSWZRUSNS
@HWI-EAS443:3:65:229:1668#0/1
GACAAGTTGTATTGCAATCGTGGACTGGTGTATCTGAAAT
+HWI-EAS443:3:65:229:1668#0/1
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@HWI-EAS443:3:65:240:1041#0/1
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+HWI-EAS443:3:65:240:1041#0/1
abb^a`aa¥__`a_]]_¥^Y]`aYX]¥W^^]Z]^¥Z^_
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+HWI-EAS443:3:65:26:239#0/1
aaaaab^b`aaa^aa`_``aaaZ_^][¥_a`_¥^WWZUW
@HWI-EAS443:3:65:277:1143#0/1
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+HWI-EAS443:3:65:277:1143#0/1
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@HWI-EAS443:3:65:303:625#0/1
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+HWI-EAS443:3:65:303:625#0/1
aaaaWJYX`_] [^`V¥`]SZW¥Y¥ZRU¥^[__XT0¥ZLRQ
@HWI-EAS443:3:65:316:560#0/1
GCTGGCTGGATCCTGGGAAATCCAGAGTGTGAATCACTCT
+HWI-EAS443:3:65:316:560#0/1
aaa``aZbaa¥^a¥abaZ_]YYaaXT^QaUa¥¥U^_H[[T
@HWI-EAS443:3:65:320:701#0/1
ATATGTTTTTGTGGGACATCAAGATACAGCAAGAAGTTC
+HWI-EAS443:3:65:320:701#0/1
aaaab_aaaaa_a`^]a`__aa`a_aaaa`aba`_aZ__
@HWI-EAS443:3:65:34:23#0/1
CTAGATTTCCAGTTGCTTCAATGTTATTTTGTCTCCCGG
+HWI-EAS443:3:65:34:23#0/1
a]0¥``aa`¥`a_```_a_a^¥_` [¥Y^____]]^¥¥¥^X
@HWI-EAS443:3:65:384:178#0/1
GACATCAAGATACAGCAAGAAGTTCAAGCCGGAAATAGCA
+HWI-EAS443:3:65:384:178#0/1
ababaaaabaaaabaaba`aa]_`aaa^`a____`_`^^`
@HWI-EAS443:3:65:402:40#0/1
TTGCTTCTCTGAGTATTTTGGGTAGTCATAAGTCCCATT
+HWI-EAS443:3:65:402:40#0/1
^a¥¥`baaaZ_`_aZ¥^aaa`a`TY` [____^Z[R`^`¥_`

@HWI-EAS443:3:65:462:1319#0/1
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+HWI-EAS443:3:65:462:1319#0/1
`a^^`babbb_``_baa`aaabaaaa_aaa`aaaa¥aa`^
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GAAGCCAGTTAAAAACAATGCCAAGGAAATTGGAAACGG
+HWI-EAS443:3:65:465:357#0/1
abb`b`ba`aba`aaaaaaa`_aaa`_]_``_`a_`_
@HWI-EAS443:3:65:557:985#0/1
CTTCTTGCTGTATCTTGATGTCCCCACAAAAACATATGCA
+HWI-EAS443:3:65:557:985#0/1
a`]aa]__a^[_`^`^`^`])[]``^JY[[R^Q¥a^^^¥]`
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GATGGTGAATGCCCCATAGCACGAGGACTTCTTCCCTTT
+HWI-EAS443:3:65:566:1034#0/1
`¥QTWH``^`__abbZ]a``J[`]P[PQX[ZV¥NXYaaZV
@HWI-EAS443:3:65:594:146#0/1
GGGGACATCAAGATACAGCAAGAAGTTCAAGCCGGAAATA
+HWI-EAS443:3:65:594:146#0/1
a`_b`aaa__aa`a``aaaaaa^aY^_a__^_``^]_]]
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+HWI-EAS443:3:65:598:222#0/1
aaaaaaaaaaaa`aaaaa`_]aZ[_X^a`_b[_`¥^^X^^
@HWI-EAS443:3:65:705:183#0/1
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+HWI-EAS443:3:65:705:183#0/1
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+HWI-EAS443:3:65:705:864#0/1
aaaa_W`aa[`ab__aaa__`U`a`_aaaa]_a`U_a¥¥_
@HWI-EAS443:3:65:715:1336#0/1
GCTTCCTCTGAGTATTTGGGTAGTCATAAGTCCCATTTT
+HWI-EAS443:3:65:715:1336#0/1
__V_`aZ```a`XPYZV__X[R]PVZ_] [PRM]VWV_Y^¥
@HWI-EAS443:3:65:733:1702#0/1
GCTATTTCCGGCTTGAACCTTCTTGCTGTATCTTGATGTCC
+HWI-EAS443:3:65:733:1702#0/1
a`¥__UP_^[_Wa`¥Y_S^a¥]YY^``[a[Y]`ZYaaYa]
@HWI-EAS443:3:65:737:915#0/1
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+HWI-EAS443:3:65:737:915#0/1
`_]Y^_]`¥W]_Z^V^_]WY¥_]_WZ_V¥[HYWZTMUQYO
@HWI-EAS443:3:65:75:1325#0/1
CCTCTGAGTATTTGGGTAGTCATAAGTCCCATTTTTGAC
+HWI-EAS443:3:65:75:1325#0/1
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+HWI-EAS443:3:65:771:1101#0/1
a`a`¥a`Y`¥aa`aaa`a^[¥`_`_a^[^``__¥__¥WZZ
@HWI-EAS443:3:65:776:142#0/1
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+HWI-EAS443:3:65:776:142#0/1
`abb`aaaa¥_]ba_X`^`¥a`^]_¥a¥a```]_Q_[-
@HWI-EAS443:3:65:813:772#0/1
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+HWI-EAS443:3:65:813:772#0/1
aabab[b^abaaba`aaabbaabaaaV^`^]a_ab`a_a
@HWI-EAS443:3:65:823:77#0/1
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+HWI-EAS443:3:65:823:77#0/1
ab`ababaaaaa````a`aaaa``aaa`a_aa__a[_a_
@HWI-EAS443:3:65:824:392#0/1
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+HWI-EAS443:3:65:824:392#0/1
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+HWI-EAS443:3:65:828:1672#0/1
ab[N^`a[U_T¥^T_R`_]ZRX]a`aaa^]a``_^a^¥Y
@HWI-EAS443:3:65:834:2013#0/1
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+HWI-EAS443:3:65:834:2013#0/1
W_TVOSW[aaa[[TZ]P_H`[[_HR]UaaT^]¥PO^a¥_¥
@HWI-EAS443:3:65:843:83#0/1
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+HWI-EAS443:3:65:843:83#0/1
aaaba_aaab``aaaa^aaaa_]`_``aa_`a^``Z`````
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+HWI-EAS443:3:65:860:977#0/1
abaa]¥`aaa`aaa`aa]^a`a`aaa_a`aaaaa``aa
@HWI-EAS443:3:65:903:1519#0/1
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+HWI-EAS443:3:65:903:1519#0/1
aa_aaaaa`aaaab`abaa^^a`a`aa_W`a^``_``a^_
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+HWI-EAS443:3:65:976:82#0/1
`a`aa````_[`a`aa^^`a__]a`_]__]^_Z_^_^__
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+HWI-EAS443:3:65:978:1170#0/1
aaaaaaaa`a`^a¥_`^`aabaaa`_`aa^aaaaaaaaaaa_
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+HWI-EAS443:3:65:986:219#0/1
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+HWI-EAS443:3:66:130:1112#0/1
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+HWI-EAS443:3:66:1395:1480#0/1
¥T[[T`ZZ`aa[L]aZ`]]YY^`_]_a^]aYQZa`^P`Q
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+HWI-EAS443:3:66:1397:182#0/1
a^a`a`bbbb]aab_aba`a_aa__ab^a_`aa`a`^`_`
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+HWI-EAS443:3:66:139:1209#0/1
W`Z¥¥a`¥^aaaZI__`Taaa¥ZQ_a]a^^a`]¥U¥^M
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+HWI-EAS443:3:66:1463:811#0/1
aaaaWa` `¥`a`^`a`U_`^Z_`¥___W_¥` [W^SWM[[
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+HWI-EAS443:3:66:1497:448#0/1
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+HWI-EAS443:3:66:1516:1620#0/1
a`abbaa^a`aaaaaaa`b_0abaaab_` ` `a_Z0aZVX_
@HWI-EAS443:3:66:1518:1844#0/1
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+HWI-EAS443:3:66:1518:1844#0/1
a^aa¥`__aaa_aa`aXQa¥ZUX_[[ZW`^]_`Z^MUX`_
@HWI-EAS443:3:66:1528:1017#0/1
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+HWI-EAS443:3:66:1528:1017#0/1
aa_a`^a^P`^a¥X` `]]_]X[^_[_]W_`_U¥XY[V¥
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+HWI-EAS443:3:66:1528:258#0/1
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@HWI-EAS443:3:66:1532:1444#0/1
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+HWI-EAS443:3:66:1532:1444#0/1
a_`aaaa¥bV]ab]Sbb]a]]ORHXaa^]W^¥URVTX]GF
@HWI-EAS443:3:66:1553:1216#0/1
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+HWI-EAS443:3:66:1553:1216#0/1
aaa`a`a`_]Z[[Z]¥Z_] [¥`^ZQ^W]W] []¥Q¥S¥W¥

@HWI-EAS443:3:66:157:1179#0/1
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+HWI-EAS443:3:66:157:1179#0/1
a]abaaaa^aa]Z_aa`aa``a[``¥`a`^]a`X]_`a`
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AGGGGAGACTACCAGTACCAATGAACTGGCGACAGTTGAAT
+HWI-EAS443:3:66:1615:310#0/1
abbaaba`aa^`aa^a_]``aa`_Z`a]``^^^]`^WY]Z
@HWI-EAS443:3:66:1624:845#0/1
GAACTCTTTACTACTGCTGTGAACTGTGTATTCATCTTT
+HWI-EAS443:3:66:1624:845#0/1
a]a^a`aaaa_`a`]aa_`a^`__^`a]a[_`^`_]`^V_`_
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+HWI-EAS443:3:66:1647:1399#0/1
ab`aaaaaa`aa`_bb_ba]a`a¥````a^```_`¥`_`W
@HWI-EAS443:3:66:1652:705#0/1
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+HWI-EAS443:3:66:1652:705#0/1
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@HWI-EAS443:3:66:1654:325#0/1
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+HWI-EAS443:3:66:1654:325#0/1
aba^a`a`V[a]^`^`_`^`[X_¥]``aaaa_`^`Z`_]`[^`_`
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+HWI-EAS443:3:66:1658:727#0/1
aaab`aa`a`_`aaa^`_`a`a^`_`^`^`[_`_`_]YS[_`Y¥V
@HWI-EAS443:3:66:1681:860#0/1
CCCAAGGGTGTATAAACACCAGCCTCCCATTTCAGAATA
+HWI-EAS443:3:66:1681:860#0/1
abba_`a`Wa`aaa```_`_]¥`_`ZaX¥ZZaaa__`_`_`_
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GAACGTGTTACCCAGGAGATTTTCATCGATTATGAGGAGCT
+HWI-EAS443:3:66:1788:93#0/1
aaa_b_a`aa`^`_`aaaaXaa_]`^`_`a[_`^`a_]`_`X]V]
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+HWI-EAS443:3:66:181:1559#0/1
ab]Wa`aa`aa`a`_`_`_`a[]a`^`a¥`]Z^aa_`[^`_`a_
@HWI-EAS443:3:66:183:705#0/1
ATTTTGTCTCCCGCTCTACTAGTGTCCAGTAATAGTTCA
+HWI-EAS443:3:66:183:705#0/1
_`aa__Va_```_`a¥`^`LTSP¥ZWZUV[GZTNMYTUR]WW
@HWI-EAS443:3:66:218:1545#0/1
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+HWI-EAS443:3:66:218:1545#0/1
a_aa__ba`_`_aaZ]^`¥aa_a_X_X^W_¥^¥_U_`VSU
@HWI-EAS443:3:66:239:52#0/1
AGCACATCCAGAAACTGATTGCCCCAGGGAGACTACCAG
+HWI-EAS443:3:66:239:52#0/1
V`Z¥a`_`¥¥Z¥_^__a^XR¥Z¥F[VT`XXM[[XSTUYPY
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CGTCAATGGCATTCTGTGTGCTCTTCAGGTCGGCTGCATA
+HWI-EAS443:3:66:271:330#0/1
ababbbaaa_abaaaa__[aba`a`aa]`S``````a¥]``
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+HWI-EAS443:3:66:305:621#0/1
abbbbaaaaaaaaaaaaaa^aa`aa_aa`^`_`_a_^]_[Z
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+HWI-EAS443:3:66:373:1804#0/1
_U`Y`]`aa^T[[_aa__aaXU^_Y¥PP___¥WYa[QS[
@HWI-EAS443:3:66:401:922#0/1
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+HWI-EAS443:3:66:401:922#0/1
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+HWI-EAS443:3:66:406:169#0/1
ZQ^UNGWQ^OQ_QT_S`a`ZZWRZYVUZP¥[N]_R^[TU
@HWI-EAS443:3:66:410:773#0/1
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+HWI-EAS443:3:66:410:773#0/1
¥R`^a__¥¥`_V]X]_`¥¥_]`aSZ_SH]^`¥YX[X]^a
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+HWI-EAS443:3:66:433:266#0/1
aa_aa[bba`_`^[]abaa`ba`W`P]¥a`Z^`¥^¥Y^`¥
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+HWI-EAS443:3:66:475:631#0/1
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aabab__^_X^`a`^]Z^aaa__^_Z_^]Y]^_X^[]Y[
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+HWI-EAS443:3:66:536:1427#0/1
a`Z^bbabba^baabbaaba`a^^Yabbaaa_a````a_`a

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+HWI-EAS443:3:66:567:524#0/1
a]`_aaaa`^aa^_aa¥a]a`a]__a``___`_a^_]_Y
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+HWI-EAS443:3:66:587:147#0/1
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+HWI-EAS443:3:66:629:2001#0/1
ZY¥aabb_W`ba`a_aaX]a^_a``aaa¥a]aa`_Z__`
@HWI-EAS443:3:66:645:142#0/1
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+HWI-EAS443:3:66:645:142#0/1
aaaaaa`a`aaa`aa`^a_]`^a^[_^`^_^^^VRV]]
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+HWI-EAS443:3:66:690:1789#0/1
Y`_aa]NZ¥Xa`a`_aa__SaRN[[SXZ]a[`_QUYYRX^
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+HWI-EAS443:3:66:739:1950#0/1
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+HWI-EAS443:3:66:76:872#0/1
]¥ZTaVWa`^aaba`_ba¥abab``aS]a]a[[ba¥aaY]
@HWI-EAS443:3:66:774:570#0/1
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+HWI-EAS443:3:66:774:570#0/1
ababa`bbbabbb`abab`aa^`ba`aaa`^aaa]```_a
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+HWI-EAS443:3:66:806:993#0/1
aa_]VaZaa]Va_aa`V¥_aW[_____[_____]`^]][_Z
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+HWI-EAS443:3:66:848:269#0/1
`]aYaaa]a^bb`aaaa¥Zaa]]]X`[_____[_____]`^`^_
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+HWI-EAS443:3:66:860:1533#0/1
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+HWI-EAS443:3:66:865:1070#0/1
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+HWI-EAS443:3:66:883:633#0/1
aQaa_¥aS]^V^Ua`¥¥[YUZ[YXXXP[_VS^¥[ZU¥[T[
@HWI-EAS443:3:66:911:381#0/1
AGAAGACAAGCATAACGGGAAACTATGCAAATAAGAGGG
+HWI-EAS443:3:66:911:381#0/1
`Y]aaaaaaaa¥Z^`_a`_`__^a^`_`[_^_`_`^`^`]
@HWI-EAS443:3:66:935:1986#0/1
AACGTGTTACCCAGGAGATTTTCATCGATTATGAGGAGCTA
+HWI-EAS443:3:66:935:1986#0/1
^`_TY¥__¥`^^a_N`a`^`N[`S__`WZZ`S¥`_ZSV0a
@HWI-EAS443:3:66:943:420#0/1
GTTACCCAGGAGATTTTCATCGATTATGAGGAGCTAAGAGA
+HWI-EAS443:3:66:943:420#0/1
aaabaaaaaaaa`aaaaa`b`a`aaa_aa^_`_aa_```
@HWI-EAS443:3:66:962:1373#0/1
ATTTTGTCTCCCGCTCTACTAGTGTCCAGTAATAGTTCA
+HWI-EAS443:3:66:962:1373#0/1
^abbbaabbbaa_^_____V[W^NQT¥[O^¥¥`R^`V¥[V
@HWI-EAS443:3:66:983:1389#0/1
GGCTAGTTAAAAAAGGAAATTCATACCCAAAGCTCAGCAA
+HWI-EAS443:3:66:983:1389#0/1
^b_T]^J`^_a` `[a^a^[R^TbX`¥T¥`baUW__WOX`^
@HWI-EAS443:3:66:985:100#0/1
ATGAAATCTCCTGGTAACACGTTCCATTGTCTGAACTAG
+HWI-EAS443:3:66:985:100#0/1
aaaa_^baa`abaa¥aa^a^`a]` `a`a__a_^Y_^`
@HWI-EAS443:3:66:992:1734#0/1
GGACCATGAGCTTGCTGTGGAGAGTGATTCCACTCTGGA
+HWI-EAS443:3:66:992:1734#0/1
aaa`PT__abb]a^]aa`ZXZ_TWF[^ZZJZ`_N_VUERP

+HWI-EAS443:3:67:1186:1722#0/1
abaaaaa^bbabbY¥`aaaaa]`b_`ba`ab]¥`_[aV[S
@HWI-EAS443:3:67:1237:929#0/1
AAGCCAGTTAAAAACAATGCCAAGGAAATTGGAAACGGC
+HWI-EAS443:3:67:1237:929#0/1
aa``aaaaa_]aa_aa_aaa^_[a`_[``_a_____^_^^
@HWI-EAS443:3:67:1298:906#0/1
AGATTTCCAGTTGCTTCCAATGTTATTTTGTCTCCCGGCT
+HWI-EAS443:3:67:1298:906#0/1
ab^`bbaaaa]aa_abaa__aa`a_aaaaa^`a^`]____]
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TGCTGGCTGGATCCTGGGAAATCCAGAGTGTGAATCACTC
+HWI-EAS443:3:67:1436:1055#0/1
^¥]_ba`]aaR[aU^_aW¥¥¥__X`¥`]W_¥`_YSNWZ_V
@HWI-EAS443:3:67:1439:734#0/1
GGAACGTGTTACCCAGGAGATTTTCATCGATTATGAGGAGC
+HWI-EAS443:3:67:1439:734#0/1
aaaa_b_a_aa````a_`a]aa`^_`^_]aa^a`^a_]^W
@HWI-EAS443:3:67:1442:1445#0/1
CTGGCTTCTTACCTTTTCATATAAGTTCTTCCATTTGAA
+HWI-EAS443:3:67:1442:1445#0/1
abbaaaa`bbbabbbba_ab```baaaaabaa`aaabaa_a
@HWI-EAS443:3:67:1445:1443#0/1
GGTAGATGGATGGTACGGTTATCACCATCAAAATGAGCAG
+HWI-EAS443:3:67:1445:1443#0/1
¥WUaa¥SUZ]X]^GZ¥_VPTWN¥YX`]]^_YZ_`X^[[_
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+HWI-EAS443:3:67:1504:64#0/1
aa_`Xb_U`aaabbXXab¥¥b_a[YabbaaabGabaaab
@HWI-EAS443:3:67:1504:806#0/1
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+HWI-EAS443:3:67:1504:806#0/1
^ababbbbababbb`abbbbabab`babbbbaabaaabb
@HWI-EAS443:3:67:1523:1803#0/1
AAAACATATGCATCTGCATTCTGATAGAGACTTTGTTGGT
+HWI-EAS443:3:67:1523:1803#0/1
¥[X[XY```a¥]a]_b_b`^Y_]N]a`a_PL^aW]SM^XG
@HWI-EAS443:3:67:15:402#0/1
GGGGACATCAAGATACAGCAAGAAGTTCAAGCCGAAATA
+HWI-EAS443:3:67:15:402#0/1
[aab_¥W¥]^¥X]^`aabab_`b_aaZQaaT_`^¥¥`Y`_a]
@HWI-EAS443:3:67:1672:1561#0/1
GCTGGATCCTGGGAAATCCAGAGTGTGAATCACTCTCCAC
+HWI-EAS443:3:67:1672:1561#0/1
ab]PPVaa_^^a__`aa[``_YUaU_W_a__¥`_`^V[^V`^
@HWI-EAS443:3:67:1691:1104#0/1
TCCGGCTTGAACCTTCTTGCTGTATCTTGATGTCCCCACAA
+HWI-EAS443:3:67:1691:1104#0/1
a^`a^abba```[aa[aaa[``]]aa_ba_aa^`____^W`_`

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+HWI-EAS443:3:67:1692:1595#0/1
ab`bbbbabbbbbbbbaabbbb`bbaabaaaa`abb
@HWI-EAS443:3:67:1703:725#0/1
GCTCCTCATAATCGATGAAATCTCCTGGGTAACACGTTCC
+HWI-EAS443:3:67:1703:725#0/1
a^`a]¥]a`[]`_a`X[^`_¥__^_VY_Y_^]V]U]ZV
@HWI-EAS443:3:67:1721:1844#0/1
ATCTCGTCAATGGCATTCTGTGTGCTCTTCAGGTCGGCTG
+HWI-EAS443:3:67:1721:1844#0/1
`aaaabX`aa`aa`_]a``[Z___Z````_`[SS__Y¥__
@HWI-EAS443:3:67:1723:1371#0/1
GGGGACATCAAGATACAGCAAGAAGTTCAAGCCGAAATA
+HWI-EAS443:3:67:1723:1371#0/1
aaaa]aba`baaaaaaaaa_abaa`b^a_a^`Z^aa_``a_
@HWI-EAS443:3:67:1772:1373#0/1
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+HWI-EAS443:3:67:1772:1373#0/1
`baa[ab_aaaa`aaa_Q[_`a_`aaaa`aa_____^]
@HWI-EAS443:3:67:183:848#0/1
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+HWI-EAS443:3:67:183:848#0/1
ab_aaRTa`^`aa`a[`_^`_`¥__ZZ¥__RUZ_W[¥a
@HWI-EAS443:3:67:202:893#0/1
CGATGAAATCTCCTGGGTAACACGTTCCATTGTCTGAACT
+HWI-EAS443:3:67:202:893#0/1
aaaaaaaa`aaaa`QX]`Z__`_a`_a_`¥_____^T
@HWI-EAS443:3:67:22:586#0/1
GAGTGATTCACACTCTGGATTTCCCAGGATCCAGCCAGCA
+HWI-EAS443:3:67:22:586#0/1
¥U`[`0`a`[¥a`_Waaa_Ta`_aYaX[]_`___a_OJT^
@HWI-EAS443:3:67:230:888#0/1
CGGCTCTACTAGTGTCCAGTAATAGTTCATTCTCCCTTCT
+HWI-EAS443:3:67:230:888#0/1
aaaaa`X[`___SXS0^`aYZ^^YYT``Y^_____]
@HWI-EAS443:3:67:329:265#0/1
GATTTCCAGTTGCTTCGAATGTTATTTTGTCTCCCGGCTC
+HWI-EAS443:3:67:329:265#0/1
a`baabb``]a`baa`a[Taa^_`aa`¥Z^[]`_`_`[]`[]`
@HWI-EAS443:3:67:394:1043#0/1
CAATTGCTCTTAGCTCCTCATAATCGATGAAATCTCCT
+HWI-EAS443:3:67:394:1043#0/1
a]_VXW_^`] []G¥KWRW]NVQWTN¥UKNTOGUX__ZSXQ
@HWI-EAS443:3:67:395:1756#0/1
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+HWI-EAS443:3:67:395:1756#0/1
aa``_N_a`¥^`aaa_[X¥Z`aaU]¥G¥_K¥¥SVNMNVWZ
@HWI-EAS443:3:67:397:499#0/1
GACAAGTTGTATTGCAATCGTGGACTGGTGTATCTGAAAT

+HWI-EAS443:3:67:397:499#0/1
]abbabab`bb`W¥aab`_]aaaaa_X^aaaaa`^a
@HWI-EAS443:3:67:407:1705#0/1
TCCGGCTTGAACCTTCTTGCTGTATCTTGATGTCCCCACAA
+HWI-EAS443:3:67:407:1705#0/1
`aaXZ^`]Uab_abb]S^baVY`^`aZ^`[_baa`TU]`
@HWI-EAS443:3:67:415:1616#0/1
CTGATTGCCCCAGGGAGACTACCAGTACCAATGAACTGG
+HWI-EAS443:3:67:415:1616#0/1
a¥VY`_W_aaa_a]ZWaX¥aZV`_¥YR_ZXXVUZZ[^S[Q
@HWI-EAS443:3:67:420:298#0/1
ATTCTGTGTGCTCTTCAGGTCGGCTGCATATCCTGACCCC
+HWI-EAS443:3:67:420:298#0/1
[__`¥¥__¥_YX^^aa]aYQ]W`[W]¥`][^^^]SNX[
@HWI-EAS443:3:67:422:412#0/1
GGCTGGATCCTGGGAAATCCAGAGTGTGAATCACTCTCCA
+HWI-EAS443:3:67:422:412#0/1
aaa__`aYaa_aa`Y]a`^^`_¥_Ua^`__a_¥_^^BB
@HWI-EAS443:3:67:444:1682#0/1
GAAGCCAGTTAAAAACAATGCCAAGGAAATTGGAAACGG
+HWI-EAS443:3:67:444:1682#0/1
^a`K`ab^K¥ab`¥baba_a`bbUW`I_^M`V`[aaaba]
@HWI-EAS443:3:67:497:1560#0/1
GTCCTCGTGCTATGGGGCATTACCATCCATCTACTAGTG
+HWI-EAS443:3:67:497:1560#0/1
[abb`aN]]bbbbV]aZb__`b`baaJaM_^Xaaa[`]a`
@HWI-EAS443:3:67:516:785#0/1
GTGTTACCCAGGAGATTTTCATCGATTATGAGGAGCTAAGA
+HWI-EAS443:3:67:516:785#0/1
UWa]YX^b^W`^^`ZU_]¥_a`V_]aZ]aaa^[S^a`_[Y_
@HWI-EAS443:3:67:51:43#0/1
CATGGAAAGTGTCAAAAATGGGACTTATGACTACCCAAAA
+HWI-EAS443:3:67:51:43#0/1
aaaab`_^a^a_aa`^`a`aa`[`a`^^`____`^¥^__^_
@HWI-EAS443:3:67:52:1814#0/1
CAAAGTCTCTATCAGAATGCAGATGCATATGTTTTTGTGG
+HWI-EAS443:3:67:52:1814#0/1
Y`bY¥Y`_bbbb`X`a`a`_YZ_[`Z¥MZV[_^aYQF¥M
@HWI-EAS443:3:67:540:231#0/1
ACCCCATCTATTTCTTCTGTTTAATTTTGCTTCCTCTG
+HWI-EAS443:3:67:540:231#0/1
`aaaaabababbbbbbababbbbabbbbaabaabbabb
@HWI-EAS443:3:67:573:1327#0/1
GAGCTTTGGGTATGAATTCCTTTTTTAAGTAGCCATATT
+HWI-EAS443:3:67:573:1327#0/1
^ZX`_^aZK¥RV_SQ^]aa`^^`]_b_^_XZ_L^_Z`_baW
@HWI-EAS443:3:67:593:1609#0/1
ATTCTGTGTGCTCTTCAGGTCGGCTGCATATCCTGACCCC
+HWI-EAS443:3:67:593:1609#0/1
ababb^__¥S`aa`_`^^`^Ta`__¥U`_ZUFZ¥¥`]^__

+HWI-EAS443:3:67:986:1983#0/1
aa[FW^^¥0]`^aZ¥PWP^__SSL]aZGXTJWFF¥YBBBB
@HWI-EAS443:3:67:998:227#0/1
CTCGTGCTATGGGGCATTACCATCCATCTACTAGTGCTG
+HWI-EAS443:3:67:998:227#0/1
abbbba_a_aba`^^aaaaba_baaabaaaa_a_a`a]`a
@HWI-EAS443:3:68:1045:1444#0/1
AATTTACTTTGTTAGTAATCTCGTCAATGGCATTCTGTGT
+HWI-EAS443:3:68:1045:1444#0/1
a`baaabaaba^a`_]a_a`aaa]aa^_____a`_]_X
@HWI-EAS443:3:68:1080:1255#0/1
GCTGCTTTGAATTTTACCACAAATGCGATAACACGTGCAT
+HWI-EAS443:3:68:1080:1255#0/1
aaa^`_a]b¥T`baaaaaaaaaaaaaa__aaaa_a_a`a_
@HWI-EAS443:3:68:1151:27#0/1
GTCTTATTGCTATTTCCGGCTTGAACCTTGCTGTATCT
+HWI-EAS443:3:68:1151:27#0/1
aa`bb`aab`aaaa__a_X``a__¥``__a_]`^^^_]_
@HWI-EAS443:3:68:1152:1267#0/1
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+HWI-EAS443:3:68:1152:1267#0/1
_[Za____^[W[]]a_¥RQ¥_00YH^X^00¥^¥Y]_OPOFR
@HWI-EAS443:3:68:1168:958#0/1
GTTCAGACAATGGAACGTGTTACCCAGGAGATTTTCATCGA
+HWI-EAS443:3:68:1168:958#0/1
a_aa_aa`a`a`_]_X]]`__^¥_____^a^]]]]`X
@HWI-EAS443:3:68:1202:801#0/1
TCACCATCCATCTACTAGTGCTGACCAACAAAGTCTCTAT
+HWI-EAS443:3:68:1202:801#0/1
aaaaaa`aa``_`a_b`a]^`^`W]____Z_]R]]]_¥_`^`
@HWI-EAS443:3:68:1248:1683#0/1
ATTAGAGCACATCCAGAACTGATTGCCCCAGGGAGACT
+HWI-EAS443:3:68:1248:1683#0/1
aaaaab`^aaaa¥aa¥a_a_aa``_aa``_¥`__^^a`^]
@HWI-EAS443:3:68:1261:26#0/1
CAAGATACAGCAAGAAGTTCAAGCCGAAATAGCAATAAG
+HWI-EAS443:3:68:1261:26#0/1
abaa`aa`abaabb`ab____`^a¥_bb^_a^a¥`_`^a`a
@HWI-EAS443:3:68:1333:1632#0/1
GACATCAAGATACAGCAAGAAGTTCAAGCCGAAATAGCA
+HWI-EAS443:3:68:1333:1632#0/1
ababbabbbbbbaabbbbaab_a^baa__a__`aa`a`a`
@HWI-EAS443:3:68:1333:1902#0/1
CTGATTGCCCCAGGGAGACTACCAGTACCAATGAACTGG
+HWI-EAS443:3:68:1333:1902#0/1
T_]¥WXab____W`a_¥_Z`Z¥_^^_b____V`a^T]^`a`^`
@HWI-EAS443:3:68:1382:1963#0/1
CTTTGTTAGTAATCTCGTCAATGGCATTCTGTGTGCTCTT
+HWI-EAS443:3:68:1382:1963#0/1
abbbbbbbbabbbbabab_abaababbaaba_a_aaaZaa

@HWI-EAS443:3:68:143:376#0/1
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+HWI-EAS443:3:68:143:376#0/1
abXV__aaNT_bX[aab_`ba¥aaa_b[_]LY]]Y_^_X
@HWI-EAS443:3:68:1456:1164#0/1
GAACTCTTTACCTACTGCTGTGAAGTGTATTTCATCTTT
+HWI-EAS443:3:68:1456:1164#0/1
aXT`_]aa_Y`X^Z__a__a[aXX]_T¥aW^_]^_VX^_
@HWI-EAS443:3:68:1477:1782#0/1
AAAGGTTTGAGATATTCCCAAGACAAGTTCATGGCCCAA
+HWI-EAS443:3:68:1477:1782#0/1
ab^Y`_b_baaab`aa_P_aaaa]aa]][``_]`S¥`^
@HWI-EAS443:3:68:1540:1090#0/1
AAAGGTAAGAAGCCAGTTAAAAACAATGCCAAGGAAATT
+HWI-EAS443:3:68:1540:1090#0/1
^^`^aabX`bb`_`bbaaabab^ababb_aa^bb[baba
@HWI-EAS443:3:68:1560:875#0/1
GTGGGGACATCAAGATACAGCAAGAAGTTCAAGCCGGAAA
+HWI-EAS443:3:68:1560:875#0/1
_L__NW^^`_]_^ZWS^_P`_Z^`_ZH^Y[VVWWWU[VYX[
@HWI-EAS443:3:68:1642:262#0/1
GTTTGAGATATTCCCAAGACAAGTTCATGGCCCAATCAT
+HWI-EAS443:3:68:1642:262#0/1
a`¥`X`a`]W`ZJIR_____]T]^VSSLKKT000SOVUXS
@HWI-EAS443:3:68:169:1065#0/1
TGAACCTGTCTTGGGAATATCTCAAACCTTTCAAATGAT
+HWI-EAS443:3:68:169:1065#0/1
ab^a]_RYaaa`baa[Y¥babb`babb`aaaabaYa`¥¥`
@HWI-EAS443:3:68:1700:322#0/1
TGCTGGCTGGATCCTGGGAAATCCAGAGTGTGAATCACTC
+HWI-EAS443:3:68:1700:322#0/1
ZaUU`a^_¥```^a]H_a^a¥OV]Y^^]S_P`HM]]YT_]`
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GCTGGCTGGATCCTGGGAAATCCAGAGTGTGAATCACTCT
+HWI-EAS443:3:68:1727:1432#0/1
abbaabbb^]a`a_`b^aaa]aabaa¥aZa`a`__M`^`
@HWI-EAS443:3:68:1791:264#0/1
GTTCTATTGAAAATGAAAGAACTTTGGACTACCACGATT
+HWI-EAS443:3:68:1791:264#0/1
`aababba^babbababb``aaaaaa`aa[a``a__`a`
@HWI-EAS443:3:68:225:709#0/1
ATAAGTCCCATTTTTGACACTTTCCATGCACGTGTTATCG
+HWI-EAS443:3:68:225:709#0/1
aaaY^_aa_Q]b`aaa__a]aa^_`[]a__IX[a^`__`]
@HWI-EAS443:3:68:241:1994#0/1
GCTTCCTCTGAGTATTTGGGTAGTCATAAGTCCCATTTT
+HWI-EAS443:3:68:241:1994#0/1
]a]Xbaaab^]RM_]^aa_]_]a]R^`aaaaYbbbbaaa`]
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GCCCAATCATGACTCGAACAAAGGTGTAACGGCAGCATGT

+HWI-EAS443:3:68:263:964#0/1
aabaaaaaaaa`^`a`a`_Z`^`U`U`Z`V¥Z^BBBBBB
@HWI-EAS443:3:68:278:131#0/1
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+HWI-EAS443:3:68:278:131#0/1
abbbb`abaaaaab_baaa[]_aaaaaaaa`^aa]_[_a
@HWI-EAS443:3:68:286:101#0/1
GATCCAGCCAGCAATGTTACATTTACCCAAATGCAATGGG
+HWI-EAS443:3:68:286:101#0/1
aab^Z¥aaa^JT¥¥`Yaa__`__a]_`V¥_UX[][[S
@HWI-EAS443:3:68:322:1531#0/1
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+HWI-EAS443:3:68:322:1531#0/1
`bbabbbbbbbbabbb`b`bbbaa`baaabbaabaa
@HWI-EAS443:3:68:325:1338#0/1
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+HWI-EAS443:3:68:325:1338#0/1
aTaaa_aaa`_`b`aaaa__a]U][^_]^[^aZU`^T[[V
@HWI-EAS443:3:68:327:1021#0/1
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+HWI-EAS443:3:68:327:1021#0/1
V^`_]_aaaTaba`a]_]_`^¥`a`a_[T]_aaa`_[a
@HWI-EAS443:3:68:330:58#0/1
GGGAAAGAAGTCCTCGTGCTATGGGGCATTACCATCCAT
+HWI-EAS443:3:68:330:58#0/1
ab`]aa`Y`[a_aaa_`X`^^_a_]Y[____¥W[_WWY^
@HWI-EAS443:3:68:380:75#0/1
GGAAAGAAGTCCTCGTGCTATGGGGCATTACCATCCATC
+HWI-EAS443:3:68:380:75#0/1
aa¥a_`_`¥_[_¥aW_Z_¥¥]_¥^_]`^WU¥WU¥YWWYWU
@HWI-EAS443:3:68:387:1002#0/1
CTCCTCATAATCGATGAAATCTCCTGGGTAACACGTTCCA
+HWI-EAS443:3:68:387:1002#0/1
a^aa`b^bb`b_¥¥baa]`aab¥`^^]X_`aaaa_]Z]a
@HWI-EAS443:3:68:467:1532#0/1
TTACCCAGGAGATTTTCATCGATTATGAGGAGCTAAGAGAG
+HWI-EAS443:3:68:467:1532#0/1
a_abba`]¥W]a`^a`a`_`^`_`_____^_]`^
@HWI-EAS443:3:68:46:108#0/1
CTCCTCATAATCGATGAAATCTCCTGGGTAACACGTTCCA
+HWI-EAS443:3:68:46:108#0/1
a¥bab_a`aaa`]YZYW^`_aaaa`a]LUZ_``_W`]]
@HWI-EAS443:3:68:51:869#0/1
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+HWI-EAS443:3:68:51:869#0/1
aa]U`ab`a`Zaa`_¥XP^^`__`VX[U`^`__`____[V_X
@HWI-EAS443:3:68:530:19#0/1
GGACAGGGATGGTAGATGGATGGTACGGTTATCACCATCA
+HWI-EAS443:3:68:530:19#0/1
abaaabaa`aaa[aa`_aa^]aaZ__a^U[_XYY¥_ZV¥Z

+HWI-EAS443:3:68:796:1030#0/1
ab_V_]__aab^baba[ba]aaaaaa`a_VZNZaa`_a
@HWI-EAS443:3:68:799:101#0/1
GAACTTCTTGCTGTATCTTGATGTCCCCACAAAAACATAT
+HWI-EAS443:3:68:799:101#0/1
¥bXS_baa`Yaa[a`a_^_adW`__a^^ZaZ[XX]_
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+HWI-EAS443:3:68:801:767#0/1
aba`bb`a`abbV_bHb¥a_[aaaa_aabbaaa__b_
@HWI-EAS443:3:68:823:41#0/1
TCCCAGGATCCAGCCAGCAATGTTACATTTACCCAAATGC
+HWI-EAS443:3:68:823:41#0/1
aaaaabaaaa`a__`^`a`^^`__`^`^^aZ^__^
@HWI-EAS443:3:68:82:1974#0/1
GGGGACATCAAGATACAGCAAGAAGTTCAAGCCGGAAATA
+HWI-EAS443:3:68:82:1974#0/1
aaa¥aab_aaa]aabab^bab]]a_X__ba_^`_¥W`U`
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CTCGTCAATGGCATTCTGTGTGCTCTTCAGGTCGGCTGCA
+HWI-EAS443:3:68:840:928#0/1
^YtQb`T`]^X¥bb]b`X¥_UaZ`a`X^ba¥[b]Z[Z^]^
@HWI-EAS443:3:68:865:317#0/1
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+HWI-EAS443:3:68:865:317#0/1
aaaaabbbb`baaaaaaaaa`a`V^`a`_`Ya__`_a
@HWI-EAS443:3:68:887:259#0/1
CAAGTTGTATTGCAATCGTGGACTGGTGTATCTGAAATGA
+HWI-EAS443:3:68:887:259#0/1
`bababbJ_aaaa`aa_a¥a`^aa]Za^_a`_Z]]`_`
@HWI-EAS443:3:68:916:1810#0/1
GAGCAATTGAGCTCAGTGCATCATTGAAAGTTTGAGA
+HWI-EAS443:3:68:916:1810#0/1
ab_bb`^`TZ_aaa`_JaW^`aaa`_a`^`_]a]`aaa
@HWI-EAS443:3:68:936:1357#0/1
TTTTGCTTCTCTGAGTATTTTGGGTAGTCATAAGTCCCA
+HWI-EAS443:3:68:936:1357#0/1
a`a^]aaY][__][ZaYM[`_]aNP0`a____`^Z]]^Z[]
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ATGGCATTCTGTGTGCTCTTCAGGTCGGCTGCATATCCTG
+HWI-EAS443:3:68:953:1472#0/1
`_ZOVb`bb]LX`aa]abaab^WUa_]RXX¥]]aZY^[L
@HWI-EAS443:3:68:959:1064#0/1
ATTGGTACTGGTAGTCTCCCTGGGGCAATCAGTTTCTGG
+HWI-EAS443:3:68:959:1064#0/1
Z_bb`U_bba_Q_[Q[`aba^Y^^W¥Z[LU]OYQ_[OZT¥
@HWI-EAS443:3:68:973:971#0/1
GTCATGATTGGCCATGAACTTGTCTTGGGAATATCTCA
+HWI-EAS443:3:68:973:971#0/1
a¥_R¥a`aaa`aaaaaa`a_aZ`aa_a^^^]_____]a

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@HWI-EAS443:3:69:1003:516#0/1
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+HWI-EAS443:3:69:1003:516#0/1
`babaaZa^a_^`_abaab]a`a`]_aTJ]`a_`a_¥a
@HWI-EAS443:3:69:1065:1205#0/1
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+HWI-EAS443:3:69:1065:1205#0/1
]¥U¥¥b`b`bQX_V¥¥`¥b]]YSOSS^]YHYQ]S]R^R]^
@HWI-EAS443:3:69:1069:1816#0/1
GGGGGGTGGACAGGGATGGTAGATGGATGGTACGGTTATC
+HWI-EAS443:3:69:1069:1816#0/1
aba`abUaaaa`a`abZL¥aa^a`aZNY]_XNZa^^
@HWI-EAS443:3:69:1071:1432#0/1
CAATTGGAAAATGTCCAAAATATGTAAAAAGCACAAAATT
+HWI-EAS443:3:69:1071:1432#0/1
a¥UYV_] [W_ZYZ¥^`aa_Y__T`Z^]`Y^`^`XZ[
@HWI-EAS443:3:69:1084:137#0/1
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+HWI-EAS443:3:69:1084:137#0/1
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@HWI-EAS443:3:69:1109:272#0/1
GGGACATCAAGATACAGCAAGAAGTTCAAGCCGAAATAG
+HWI-EAS443:3:69:1109:272#0/1
aabaaa_baaaaaaa`abaa`a¥¥a`_aZ¥aa`__`
@HWI-EAS443:3:69:1139:416#0/1
CAGTTGCTTCGAATGTTATTTTGTCTCCCGGCTCTACTAG
+HWI-EAS443:3:69:1139:416#0/1
aba`bbbbbababba_bbbbbbaaba_]a`a`aZW_^Y
@HWI-EAS443:3:69:1153:1128#0/1
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+HWI-EAS443:3:69:1153:1128#0/1
¥bbaaaa_bba`babaaa`aabaaaaa^aa`ba`aa
@HWI-EAS443:3:69:1249:693#0/1
TTTTTGTGGGACATCAAGATACAGCAAGAAGTTCAAGCC
+HWI-EAS443:3:69:1249:693#0/1
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+HWI-EAS443:3:69:1264:18#0/1
aa`Z^abbb`^Y¥aa_YZ][GS¥W_ZVYU_`aT[ZWT]]a
@HWI-EAS443:3:69:1285:1083#0/1
CAAAGTCTCTATCAGAATGCAGATGCATATGTTTTTGTGG
+HWI-EAS443:3:69:1285:1083#0/1
a^_Z^Ra]]aX`aa`aaPSIR_`Ya__a_a[X__TRYN¥U
@HWI-EAS443:3:69:1305:625#0/1
TGCTGGCTGGATCCTGGGAAATCCAGAGTGTGAATCACTC

+HWI-EAS443:3:69:1305:625#0/1
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@HWI-EAS443:3:69:1332:1680#0/1
AGGATATGCAGCCGACCTGAAGAGCACACAGAATGCCATT
+HWI-EAS443:3:69:1332:1680#0/1
^`aabaaaa^``]aaaa``^```a`_`^^_a`^^Za`_
@HWI-EAS443:3:69:1353:1038#0/1
ATGCAATGGGGCTACCCCTCTTAGTTTGCATAGTTTCCCG
+HWI-EAS443:3:69:1353:1038#0/1
aaaaaa`_`_^aaa^^a^`^a`_`Z^``¥````Z_^]]^
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TGGCATTCTGTGTGCTCTTCAGGTCGGCTGCATATCCTGA
+HWI-EAS443:3:69:1496:1010#0/1
¥]_[`[Ub]b_¥`_X^X_``_]`[`YY_Y_V]Zaa_PW¥X^
@HWI-EAS443:3:69:1508:1783#0/1
CTGGCTTCTTACCTTTTCATATAAGTTCTTCACATTTGAA
+HWI-EAS443:3:69:1508:1783#0/1
abaaaababaaa`abaa``aaaa_a^a_```````a``a__
@HWI-EAS443:3:69:1523:1839#0/1
ACAAGTTGTATTGCAATCGTGGACTGGTGTATCTGAAATG
+HWI-EAS443:3:69:1523:1839#0/1
a^`¥^abb_aa`a^baaaa[¥````aa^[a]aa_aa_``aa
@HWI-EAS443:3:69:1640:248#0/1
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+HWI-EAS443:3:69:1640:248#0/1
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GCTGCTTTGAATTTTACCACAAATGCGATAACACGTGCAT
+HWI-EAS443:3:69:1723:1050#0/1
aa`^OOP_`aaaU]]`UNVY[`aT`[a`X[HR[Z_SXWW`
@HWI-EAS443:3:69:1729:127#0/1
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+HWI-EAS443:3:69:1729:127#0/1
aaaaZ`aaaa`]aaaa`[W__Z^^LU^O`^Z_]_R^^YZ
@HWI-EAS443:3:69:173:1256#0/1
GCTGCTTTGAATTTTACCACAAATGCGATAACACGTGCAT
+HWI-EAS443:3:69:173:1256#0/1
abba``aZ]Zaaaaabaaa`Za`aaaa^aaa``¥^^`_
@HWI-EAS443:3:69:190:1197#0/1
GCTGTATCTTGATGTCCCCACAAAACATATGCATCTGCA
+HWI-EAS443:3:69:190:1197#0/1
¥bb^O`_^_¥^`[_`Wa`¥ZWY`_^_[V¥aOX¥Z[]][aS`_^]
@HWI-EAS443:3:69:212:528#0/1
CATTCTGTGTGCTCTTCAGGTCGGCTGCATATCCTGACCC
+HWI-EAS443:3:69:212:528#0/1
abaR[^OR`ZZa_^O¥aa]RN``a`[_`PS]_YU^[YKY¥^
@HWI-EAS443:3:69:246:641#0/1
AGAAGTCCTCGTGCTATGGGGCATTCCACATCCATCTACT
+HWI-EAS443:3:69:246:641#0/1
aa]¥^]aa`a¥¥____[¥_[]__`__`_XV¥]__¥Z¥`^W

@HWI-EAS443:3:69:258:206#0/1
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+HWI-EAS443:3:69:258:206#0/1
a^a_aa`aaab^aa^_aT^__¥_¥`W_W¥]_¥¥^¥_^YTW
@HWI-EAS443:3:69:267:113#0/1
GAAGTCCTCGTGTATGGGGCATTACCATCCATCTACTA
+HWI-EAS443:3:69:267:113#0/1
a_¥ZUWaa]_[Z^^P¥aXTY`^^`[^GNW_¥F¥a¥UU]]
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GCTGCTTTGAATTTTACCACAAATGCGATAACACGTGCAT
+HWI-EAS443:3:69:296:711#0/1
a[^[\`__abYP]aaZ`]_[¥RJXVZa]U_YZa`¥[`PQP
@HWI-EAS443:3:69:366:792#0/1
TCCGGCTTGAACTTCTTGCTGTATCTTGATGTCCCCACAA
+HWI-EAS443:3:69:366:792#0/1
aaba^``_TU`Y``X`X¥]^Sa_a_`]__[]__aa[`XX
@HWI-EAS443:3:69:431:1549#0/1
CAGAAACTGATTGCCCCAGGGAGACTACCAGTACCAATG
+HWI-EAS443:3:69:431:1549#0/1
a^YZ`aa`^U[^[^a_a¥[V¥RSV^¥____ZLY¥[MZZW
@HWI-EAS443:3:69:442:1069#0/1
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+HWI-EAS443:3:69:442:1069#0/1
a^R^^b¥¥¥a`aaaa_aa¥_`a^a]a_XT[^`a¥]_¥_
@HWI-EAS443:3:69:527:549#0/1
ATGGCTAGTTAAAAAAGGAAATTCATACCCAAAGCTCAGC
+HWI-EAS443:3:69:527:549#0/1
aa`aba^^Y¥TWaaa^Z]T_ZDWW_XQG^^[a^PPYLVMO
@HWI-EAS443:3:69:530:1242#0/1
TCTACACTGTAGAGACCCATTAGAGCACATCCAGAACTG
+HWI-EAS443:3:69:530:1242#0/1
ababaaaa_aa`__aa`^``Z__`a_a_]¥]`a__a_
@HWI-EAS443:3:69:538:347#0/1
CAGAATTTACTTTGTTAGTAATCTCGTCAATGGCATTCTG
+HWI-EAS443:3:69:538:347#0/1
abbabaaabaaaab`aba_baaaabba_aa_a_aaa_aaa
@HWI-EAS443:3:69:542:224#0/1
GCTTCCTCTGAGTATTTTGGGTAGTCATAAGTCCCATTTT
+HWI-EAS443:3:69:542:224#0/1
]a`aba^``¥]^X``aaa_T¥^``ZYT]¥R]WSQ^`]^`_^
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GAACTCTTTACCTACTGCTGTGAAGTGTATTTCATCTTT
+HWI-EAS443:3:69:553:1630#0/1
Y[^a¥aa`_V_b_]baaa^^¥Z^[ab^R`Zaa]ba`aa`a
@HWI-EAS443:3:69:566:1276#0/1
CAGACACCCAAGGGTGTATAAACACCAGCCTCCCATTTC
+HWI-EAS443:3:69:566:1276#0/1
aaaabaabaaa^UTX____aaaaYaaa_____`]NU``_
@HWI-EAS443:3:69:58:840#0/1
CCTCTGAGTATTTTGGGTAGTCATAAGTCCCATTTTGGAC

+HWI-EAS443:3:6:1495:372#0/1
[_`bba[a^]a_aaba__[aa]`[_Za_aXaa_aa]R)`
@HWI-EAS443:3:6:1532:1050#0/1
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+HWI-EAS443:3:6:1532:1050#0/1
`a^bab`aX]¥bTYO]WWYazWXa^`a`]P`_TKTX__BB
@HWI-EAS443:3:6:1596:348#0/1
GAAGTCCTCGTGCTATGGGGCATTACCATCCATCTACTA
+HWI-EAS443:3:6:1596:348#0/1
a]a_^ZST_a__^a`[_UZ`TX_VRZQMY_ZTZ^U¥a^¥B
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ATCATTGAAAGTTTGAGATATCCCCAAGACAAGTTCA
+HWI-EAS443:3:6:1597:443#0/1
aaY_aaaba__ba`aaaaa```XWU[W`a`Za__V^BB
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CGGCTCTACTAGTGTCCAGTAATAGTTCATTCTCCCTTCT
+HWI-EAS443:3:6:1631:1617#0/1
`aba_^^[a`_^b`[_a_aaa[H_`^YX]babaQXZaWB
@HWI-EAS443:3:6:1721:659#0/1
GCTTCCTCTGAGTATTTGGGTAGTCATAAGTCCCATTTT
+HWI-EAS443:3:6:1721:659#0/1
aabaa_aYba_b_a_a`W[_a^`a]^_`^`^[_YY_a``^
@HWI-EAS443:3:6:172:766#0/1
GAACTCTTACCTACTGCTGTGAAGTGTGATTTCATCTTT
+HWI-EAS443:3:6:172:766#0/1
a`[V`]aa`bV``]_a`Xab[aT[[_b[a_^_WL¥`W`_T
@HWI-EAS443:3:6:183:2036#0/1
TTTGCTTCTCTGAGTATTTGGGTAGTCATAAGTCCCAT
+HWI-EAS443:3:6:183:2036#0/1
`a^Z`aaaaaYaaa`]_a`___Z^X_^Z`a`a__S_^]`B
@HWI-EAS443:3:6:211:1413#0/1
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+HWI-EAS443:3:6:211:1413#0/1
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@HWI-EAS443:3:6:225:970#0/1
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+HWI-EAS443:3:6:225:970#0/1
H_babbbb_bbaba_a¥aaab_^S]a_ab`ba`V^a`_^a
@HWI-EAS443:3:6:27:401#0/1
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+HWI-EAS443:3:6:27:401#0/1
a_aaa]a¥`a__`_Y``__a`_a¥[Y_QaZ^^Z_XXW¥Q_
@HWI-EAS443:3:6:299:1967#0/1
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+HWI-EAS443:3:6:299:1967#0/1
ab[[a]R`WUKa]]VYW^`_TR`Z_U¥_]ba[_PYP`_]B
@HWI-EAS443:3:6:304:1297#0/1
ACAATGGAACGTGTTACCCAGGAGATTTTCATCGATTATGA
+HWI-EAS443:3:6:304:1297#0/1
aaa_aaaT`[a^a___¥_Z_]^[_^^^`^Y_^_V_^^^^[

@HWI-EAS443:3:6:349:1040#0/1
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+HWI-EAS443:3:6:349:1040#0/1
a`aa_aaaaaaaaa_a_a`Ua_^`Ua[a`_`____^`_]_
@HWI-EAS443:3:6:364:1049#0/1
GCTTCCTCTGAGTATTTGGGTAGTCATAAGTCCCATTTT
+HWI-EAS443:3:6:364:1049#0/1
aa¥a[a¥^`Z`a^_aa__`a`X`aXZ`a``_X_]W_`^__
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ATCGATTATGAGGAGCTAAGAGAGCAATTGAGCTCAGTGT
+HWI-EAS443:3:6:372:1602#0/1
abababbabaaXWRYbaaa^¥aaa_aaa^`a]^`_a`_[^
@HWI-EAS443:3:6:402:232#0/1
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+HWI-EAS443:3:6:402:232#0/1
U^ba`bab]baba¥Vaab_`VaW_`_Ra_a[Y]]QXa^__
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+HWI-EAS443:3:6:403:1297#0/1
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+HWI-EAS443:3:6:411:341#0/1
a`RU]Q¥Z]_]¥¥`X][X]^XP_`^^TTNVX`V]YYBBBB
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+HWI-EAS443:3:6:414:391#0/1
abbbb]a^`bYXR^__Y¥`aaZ]^abb¥`ZaaabYa^a`
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+HWI-EAS443:3:6:426:1336#0/1
`La`aa`TaX`a_V^^SYS^Q_]UY^a_¥V_Q[Q`H`GV
@HWI-EAS443:3:6:439:837#0/1
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+HWI-EAS443:3:6:439:837#0/1
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@HWI-EAS443:3:6:471:644#0/1
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+HWI-EAS443:3:6:471:644#0/1
aa^aX` `[Zbaaa[VabQ`^Y¥a`Kta¥Q`Xaa]ZaZX__
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+HWI-EAS443:3:6:502:1752#0/1
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@HWI-EAS443:3:6:595:1760#0/1
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+HWI-EAS443:3:6:595:1760#0/1
aS`Xaa` `aaa`aZa_aXa_aa`¥X` `a[¥]Z__bHZBBB
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+HWI-EAS443:3:6:609:1936#0/1
_a¥`b¥`X_a`U`TUS^¥_SZ]_Z¥¥a]a`VX_`aa_[_a
@HWI-EAS443:3:6:625:645#0/1
ATGACACTGAGCTCAATTGCTCTCTTAGCTCCTCATAATC
+HWI-EAS443:3:6:625:645#0/1
aaaaabaabaaYYPaab`_`aaa_aaaa[aa`a]`aa__0
@HWI-EAS443:3:6:62:336#0/1
GAGGAGCTAAGAGAGCAATTGAGCTCAGTGTCATCATTG
+HWI-EAS443:3:6:62:336#0/1
Z_a```R¥bba`^¥a`¥`Ybb_abaa^a]a¥`bab]b[_b
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ATGAACTTGTCTTGGGAATATCTCAAACCTTCAAATGA
+HWI-EAS443:3:6:640:1599#0/1
aa`^V]a`bY_a`baa_]aa`aaa^`^`a`^a`¥aVa`_^
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+HWI-EAS443:3:6:663:308#0/1
abaa]aa_aaaab`_a`^¥a[^Z^WWY_]U[¥MZGW^]B
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+HWI-EAS443:3:6:669:1397#0/1
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+HWI-EAS443:3:6:717:528#0/1
`bbaaab`aabb^bb_aa_a_aa_a`a``_^`_¥a__[^
@HWI-EAS443:3:6:796:823#0/1
TTTTGCTTCTGAGTATTTGGGTAGTCATAAGTCCCA
+HWI-EAS443:3:6:796:823#0/1
_baa`[_b]aaabbaa_abaa`a_aU^^[]`____`U[PV_
@HWI-EAS443:3:6:896:2014#0/1
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+HWI-EAS443:3:6:896:2014#0/1
aa]_Z_¥aa]aa^a`a__aa`_[`VSF]__VP¥_[_[[_^
@HWI-EAS443:3:6:919:880#0/1
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+HWI-EAS443:3:6:919:880#0/1
¥aa¥[___`baaab`^`aa]aXaaaab`^`^`baa_b`b¥`
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+HWI-EAS443:3:6:920:1373#0/1
^HXa_U`__RY¥^S`_Z_0[_[V^X`^X^Z^¥_ZZZBBB
@HWI-EAS443:3:6:935:1117#0/1
CATGAACTTGTCTTGGGAATATCTCAAACCTTCAAATG
+HWI-EAS443:3:6:935:1117#0/1
aa_baabbbbaab`baab`abaa_a_bba¥^aaa^a_aaa
@HWI-EAS443:3:6:941:1021#0/1
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+HWI-EAS443:3:6:941:1021#0/1
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@HWI-EAS443:3:6:990:1443#0/1
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+HWI-EAS443:3:6:990:1443#0/1
a][YV^`¥_SWa_YP]`aYRY`WX`[T][a`Xa_W_XWa
@HWI-EAS443:3:6:999:452#0/1
GGGGACATCAAGATACAGCAAGAAGTTCAAGCCGGAAATA
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`S__SN]T¥Raa_a^_UWWa__]WYP^G_Z¥UG¥VN¥]__
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¥[bWUY`Yaababbaaa^a_W¥aW`XY_H_`a^VUPWT[Y
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abaaaa_`aaaaaaaaaba_a`aa`]a]LS`_MMSZ]``
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aaa_a_b_a`_ZU_¥`]a¥[PS[_SGYUU^^]ZLYZUZG
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+HWI-EAS443:3:70:1273:136#0/1
a`_`a`abPabaa^^aaa`]aa`Y_a`_`a`]^[X]^V]
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+HWI-EAS443:3:70:30:1470#0/1
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_]U`¥ZUZV[a_WZRTX`_a]_aaa_a^¥_¥`_YQ[[U[`
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+HWI-EAS443:3:70:673:204#0/1
a``a^aV`aa`aX`]Y¥][____`ZZ_¥_Y_¥¥¥_Y¥^TZ
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ab_]a_aaaa]_aWOX]¥^_a^¥a_aaaYK]_`ZL]U]`
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+HWI-EAS443:3:70:911:1098#0/1
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+HWI-EAS443:3:71:1136:769#0/1
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+HWI-EAS443:3:71:1139:1814#0/1
a_¥a]aX_aaZa[Raaaaaaa`^]S]X`aa``aa_`¥_H
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`bba^a`aaa`abb_abb_I_b__`_a_b`aa`]_`aa__
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aa¥a[^bbSWaaY¥_]a^a]a^]__^`^`S^``_X¥_0]^

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+HWI-EAS443:3:71:1289:1443#0/1
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+HWI-EAS443:3:71:1406:443#0/1  
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+HWI-EAS443:3:71:1441:1859#0/1  
`bb`\_`^¥]\_`\_`^aVa[aa[a\_\_\_\_a]`a]aa`a\_`\_`\_]]]  
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aabaa\_¥¥X[`aa]^`\_]YSaaZ]^U`^X\_aab```a]]U  
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aaa`a\_a`a\_a\_¥^`\_`\_¥X`X^W\_\_\_\_\_^]X\_ZZ]]ZW  
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aaaaab`bbaa\_``aaaa`\_``]\_^`^`\_`^`^`V]^  
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+HWI-EAS443:3:71:1728:1820#0/1  
`^a\_aaaaa`¥^X[\_`]^a\_]a^QVS`]^`^\_\_a\_\_QZ¥

@HWI-EAS443:3:71:1773:487#0/1  
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+HWI-EAS443:3:71:1773:487#0/1  
abbbbbbbbbbbabbbbbbbbabababab]b^¥\_  
@HWI-EAS443:3:71:199:145#0/1  
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+HWI-EAS443:3:71:199:145#0/1  
aaa^`a[`a\_\_\_[a\_]`\_`a`\_\_^\_\_\_]]¥KOY^OLPV  
@HWI-EAS443:3:71:223:1522#0/1  
CTTATATGAAAAGGTAAGAAGCCAGTTAAAAACAATGCC  
+HWI-EAS443:3:71:223:1522#0/1  
\_a`W^a]a¥^a^XW]VS`a\_a\_b^\_\_a`aa\_\_\_a^Z\_^X  
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CAGACAATGGAACGTGTACCCAGGAGATTCATCGATTA  
+HWI-EAS443:3:71:270:87#0/1  
ababbbabaabb¥aabaaaaaaaaaaaaaaaaa\_`a``]a\_  
@HWI-EAS443:3:71:343:1312#0/1  
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+HWI-EAS443:3:71:343:1312#0/1  
^a`¥Ha\_Q^^a\_\_a]aYW\_^a]¥^b`[¥b^aZX]\_\_ab\_  
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ATCTCGGTACCACTAGATTTCCAGTTGCTTGAATGTTAT  
+HWI-EAS443:3:71:354:106#0/1  
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+HWI-EAS443:3:71:399:1588#0/1  
^^¥X^a\_[Va]VPVX[`Y[Y^^YY]YV¥QOUGXWP¥F[SZ  
@HWI-EAS443:3:71:413:739#0/1  
AGCTTTTTGCTCCAGCATGAGGACATGCTGCCGTTACACC  
+HWI-EAS443:3:71:413:739#0/1  
H\_¥`W\_abb^TQ[¥\_]¥^^a\_[[`bYP]a)`¥\_[¥OHWMY  
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+HWI-EAS443:3:71:440:132#0/1  
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+HWI-EAS443:3:71:456:1832#0/1  
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+HWI-EAS443:3:71:467:500#0/1  
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TGTTATTTTGTCTCCCGCTCTACTAGTGTCCAGTAATAG  
+HWI-EAS443:3:71:517:197#0/1  
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+HWI-EAS443:3:71:629:695#0/1  
¥ba```aababbaaaa`^aa\_abb^¥```baaW^abaa^\_a  
@HWI-EAS443:3:71:656:1822#0/1  
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+HWI-EAS443:3:71:656:1822#0/1  
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+HWI-EAS443:3:71:677:705#0/1  
abb```a\_ba`b\_`a¥a`a`a`a```aaaa^]`aaa\_\_\_\_\_  
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+HWI-EAS443:3:71:726:77#0/1  
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GGGGGGTGGACAGGGATGGTAGATGGATGGTACGGTTATC  
+HWI-EAS443:3:71:728:1881#0/1  
aaa]aaVa^`bb`Zaaa^aSaaaV]a```\_Qa`\_Z¥]aMV  
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+HWI-EAS443:3:71:763:1466#0/1  
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]S]T^TMWUaY\_aa]aZ[U[Qaa\_[QW`XV¥¥[LY``V¥^  
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GGAAAGTGTCAAAAATGGGACTTATGACTACCCAAAATAC  
+HWI-EAS443:3:71:793:195#0/1  
a^aaaa^b\_a```aaaab\_a^```a`a```\_aYT\_\_^```\_U  
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CACGTGTTATCGCATTTGTGGTAAAATTCAAAGCAGCCGT  
+HWI-EAS443:3:71:859:1661#0/1  
abaa]\_\_aaaa]^aaaa\_a¥¥baaaa`a```[^]W`^[Z  
@HWI-EAS443:3:71:899:1693#0/1  
ATGTTTTTGTGGGACATCAAGATACAGCAAGAAGTTCAA  
+HWI-EAS443:3:71:899:1693#0/1  
^aa`aabaa\_aaa^```aa\_aa\_]aaaaabb\_a`X^¥b`

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ab`IOaab`aaX^`aabbabb`\_a`0\_aaa\_ba`S`aa\_  
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TACCAGTACCAATGAACTGGCGACAGTTGAATAGATCGCC  
+HWI-EAS443:3:71:972:114#0/1  
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AATTTACTTTGTTAGTAATCTCGTCAATGGCATTCTGTGT  
+HWI-EAS443:3:71:976:1919#0/1  
abaaabbabb\_\_aa``baaaaaa]\_aa``[¥`a`a`\_\_\_Z  
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GTGTATTCATCTTTTCAATAACAGAATTTACTTTGTTAGT  
+HWI-EAS443:3:71:980:954#0/1  
a¥Q¥OZW\_UYaWW)`aXQXWSUZ\_^[¥[RPY]]aaW¥\_\_T  
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GCTTGAACCTTCTTGCTGTATCTTGATGTCCCCACAAAAAC  
+HWI-EAS443:3:71:995:1740#0/1  
\_bZaV`¥\_aab[Ya``b[a\_aa^\_R]a^b`\_aa]L^`S^`  
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+HWI-EAS443:3:72:1020:578#0/1  
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+HWI-EAS443:3:72:1020:804#0/1  
ab`aabaa\_abaaTb`bb```aabbba`baaaa`a\_aaa[  
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+HWI-EAS443:3:72:1023:1380#0/1  
aaaa\_``\_\_`a`\_``\_\_aY^\_\_\_Y¥^X¥Y^`]\_\_^Z^^^\_  
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+HWI-EAS443:3:72:1066:340#0/1  
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GACAAGTTGTATTGCAATCGTGGACTGGTGTATCTGAAAT  
+HWI-EAS443:3:72:1075:492#0/1  
`S`[U\_Z]][]ZTZZ`aa^a[Z¥YY]YNNaY`WS]`YYW¥  
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+HWI-EAS443:3:72:1123:278#0/1  
abbbaba¥[baabb`abbbaba`b``\_a]`a^]b^`a^`  
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CAGAATTTACTTTGTTAGTAATCTCGTCAATGGCATTCTG  
+HWI-EAS443:3:72:1127:910#0/1  
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+HWI-EAS443:3:72:1141:1283#0/1  
a[\_````¥¥¥¥\_`]]`\_]]a`^TW\_LX]^Z\_¥^]¥\_^^  
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CTCGTGCTATGGGCATTACCATCCATCTACTAGTGCTG  
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CAACAAAGTCTCTATCAGAATGCAGATGCATATGTTTTTG  
+HWI-EAS443:3:72:118:1698#0/1  
a^`^`SMTF\_Z¥W¥¥¥¥^SO\_VY^\_XTW\_`^XTS[SZSRLT  
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GCCATGAACCTGTCTTGGGAATATCTCAAACCTTTCAA  
+HWI-EAS443:3:72:1194:937#0/1  
aa\_aaaa\_aa`\_`aaaa\_a^\_a`a^a\_`^a\_`\_^`^\_`a  
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+HWI-EAS443:3:72:1203:348#0/1  
aa`a`abaaba`^`a`bb¥^]`a`Z]]aaaaa^`]]`  
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+HWI-EAS443:3:72:1235:507#0/1  
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+HWI-EAS443:3:72:1238:1947#0/1  
a\_a`a`bba\_abaaaaa[baaaaa`a\_\_aaaa```aa`a  
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AATCGATGAAATCTCCTGGTAACACGTTCCATTGTCTGA  
+HWI-EAS443:3:72:1242:1128#0/1  
`ab^aab¥abaaa`[\_ba\_a¥a\_Sa^a¥`a]\_\_`a]^`a^`



@HWI-EAS443:3:72:1299:1060#0/1  
GTCTTATTGCTATTTCCGGCTTGAACCTTCTTGCTGTATCT  
+HWI-EAS443:3:72:1299:1060#0/1  
a\_a\_aaaaaa`aaa`a\_\_\_a`\_``\_^^^`\_^^^`X[\_\_\_\_  
@HWI-EAS443:3:72:1377:1366#0/1  
GCAGTAGGTAAGAGTTCAACCACCTGGAAAAAGAATAG  
+HWI-EAS443:3:72:1377:1366#0/1  
abaaY`aa`a`a\_^a]^`¥\_\_[X\_]\_^aa]]\_\_\_\_]WY\_\_^\_  
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+HWI-EAS443:3:72:1385:1367#0/1  
aaaaa]^`ab]^`\_`\_a]^`\_\_`\_`\_a\_\_\_`\_^`]\_\_\_\_\_]  
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+HWI-EAS443:3:72:1393:724#0/1  
`a]^`\_][V\_¥V¥b^aa\_b]I`^b]^`\_aa][aaaa\_a`\_  
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aa`aa`U^ba^[\_][\_]a`\_Na\_^\_a]^`\_]a^X]a]X\_\_  
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+HWI-EAS443:3:72:1490:254#0/1  
`RY`aa`a\_a\_\_`\_a\_aaa\_\_\_`a\_^aY]V\_\_`R[^]]]]  
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CGGTACCACTAGATTTCCAGTTGCTTCCAATGTTATTTTG  
+HWI-EAS443:3:72:1538:1891#0/1  
aba]a`abVaba¥`aaaa`\_`\_`aaa^a^aaa^\_`a]a]^`  
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+HWI-EAS443:3:72:1548:206#0/1  
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+HWI-EAS443:3:72:1562:825#0/1  
]^`\_`]HPa\_]`YUY]G]^`SSaS\_\_`\_^OXQ]Y]Z\_VU\_W^  
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+HWI-EAS443:3:72:1596:1367#0/1  
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TGCTGGCTGGATCCTGGGAAATCCAGAGTGTGAATCACTC  
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CAACAAAGTCTCTATCAGAATGCAGATGCATATGTTTTTG  
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aV^U¥^\_`Z`aYb\_`K`\_NWbb¥VaYN¥HYaY`R^WG^[G  
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+HWI-EAS443:3:72:1665:1365#0/1  
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a\_a\_¥X`\_`aa\_]W[a[T^\_]\_¥XP\_V\_R`UVV]\_Y^XR  
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GACAATGGAACGTGTTACCCAGGAGATTTTCATCGATTATG  
+HWI-EAS443:3:72:1749:262#0/1  
ab`baaaaa[a^a\_`aa]^\_a\_``\_`^^\_`^^V\_^]\_\_  
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GGGGTCAGGATATGCAGCCGACCTGAAGAGCACACAGAAT  
+HWI-EAS443:3:72:189:196#0/1  
aX^aHaaaa]\_a\_``\_`\_`¥\_^¥\_\_WV`¥\_T^¥^¥^\_`^¥Y  
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TGCTTCCTCTGAGTATTTTGGGTAGTCATAAGTCCCATTT  
+HWI-EAS443:3:72:224:756#0/1  
aabaaaaaaaa`b]aaaaa`\_]aa\_``\_`[`a[\_Y]\_`a`  
@HWI-EAS443:3:72:225:267#0/1  
CACTAGTAGATGGATGGTGAATGCCCATAGCACGAGGAC  
+HWI-EAS443:3:72:225:267#0/1  
\_]\_bab\_baaab`]bb^^aaba``^`\_`\_a``[^`\_a\_``  
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AGCCAGTTAAAAACAATGCCAAGGAAATTGGAAACGGCT  
+HWI-EAS443:3:72:233:1604#0/1  
a^aa^Z]``aa^\_]a^]a^\_``\_`\_`^]¥^^]]]Y]]\_`^ZY[[  
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+HWI-EAS443:3:72:268:896#0/1  
[`]b[aaW¥baI^WVaaababaab\_W\_ba`]]`b`b`b¥^aa  
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CAACTTGTGACACACCCCAAGGGTGCTATAAACACCAGCCT  
+HWI-EAS443:3:72:282:1392#0/1  
`]]````YS\_Y\_]a^`\_`\_`][[[]T¥^U^Y¥^^¥^U¥RUYQV  
@HWI-EAS443:3:72:287:646#0/1  
CGTGTATCGCATTTGTGGTAAAATTCAAAGCAGCCGTTT  
+HWI-EAS443:3:72:287:646#0/1  
a\_T\_a\_]]]]]X`a^]W`]Q^[XV]^`\_`a[SOZWX[UMQT  
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+HWI-EAS443:3:72:294:1219#0/1  
TYVba\_¥GW^YSSQ¥aaaWaba`PVQQT]a[aZVZOLXY\_  
@HWI-EAS443:3:72:294:783#0/1  
CAAAGTCTCTATCAGAATGCAGATGCATATGTTTTTGTGG  
+HWI-EAS443:3:72:294:783#0/1  
`aa\_aZabbbbaaX\_a[P``abaab\_aabab¥aaaaa^ab  
@HWI-EAS443:3:72:399:463#0/1  
GGGGACATCAAGATACAGCAAGAAGTTCAAGCCGGAATA  
+HWI-EAS443:3:72:399:463#0/1  
]b``aaaabb\_aaaaabbaaba`W^]\_`aaa¥`aaa`X\_\_

@HWI-EAS443:3:72:403:43#0/1  
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+HWI-EAS443:3:72:403:43#0/1  
aaaYaaa¥[\_V]^`Za\_`a]^`^^`[]YRZ\_\_¥S^X[[¥  
@HWI-EAS443:3:72:441:1145#0/1  
GTGGGGACATCAAGATACAGCAAGAAGTTCAAGCCGGAAA  
+HWI-EAS443:3:72:441:1145#0/1  
aW]aa^\_ab`][aaa\_\_aaa`\_a\_ZRWY]a^P^\_PZVU[]  
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+HWI-EAS443:3:72:477:40#0/1  
aaS]TWa\_W]YZPT^\_\_\_\_\_¥Z^]ZYPYRRNP[TTSSUUU  
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+HWI-EAS443:3:72:49:978#0/1  
[[a¥a\_aba¥Z\_a`a`\_¥XVLUT\_a\_bYZ]T`TXQSZ\_\_  
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GGTAAATGTAACATTGCTGGCTGGATCCTGGGAAATCCAG  
+HWI-EAS443:3:72:503:360#0/1  
aaU`a^abZa]aa```a\_X]^`\_¥ZZ\_\_^`Ya[^^\_W^`U  
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+HWI-EAS443:3:72:511:1349#0/1  
`aaaaa[\_`[Y^¥^`\_`\_¥LL]]¥[\_\_^`]^`\_X^RZ\_¥¥V  
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+HWI-EAS443:3:72:518:1477#0/1  
`bbbbabbbaab`]¥^aabaa^]aa`aa`aaaa`¥b`a\_[  
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CGATTATGAGGAGCTAAGAGAGCAATTGAGCTCAGTGTCA  
+HWI-EAS443:3:72:579:1314#0/1  
a``aaaaa^\_a`\_aaaa\_a\_aa`\_aa\_\_a¥a``\_\_^\_^[Z  
@HWI-EAS443:3:72:580:514#0/1  
CAATGGCATTCTGTGTGCTCTTCAGGTCGGCTGCATATCC  
+HWI-EAS443:3:72:580:514#0/1  
abb]]\_ZZb\_0\_bababbbaaa`]]bUab]^`^R[]``¥]  
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TATATTCTGAAATGGGAGGCTGGTGTATATAGCACCCCTTG  
+HWI-EAS443:3:72:590:1392#0/1  
^`\_\_aaba`\_a`ba[a^`\_\_\_^\_Za\_aaa`````aa`¥W[a  
@HWI-EAS443:3:72:608:2023#0/1  
GCTGGCTGGATCCTGGGAAATCCAGAGTGTGAATCACTCT  
+HWI-EAS443:3:72:608:2023#0/1  
abb]aaaa``¥]a\_^`a^`\_S]aSX¥]W[UP``NSZW¥¥U  
@HWI-EAS443:3:72:617:1783#0/1  
CATAAGTCCCATTTTTGACACTTCCATGCACGTGTTATC  
+HWI-EAS443:3:72:617:1783#0/1  
``]``XU[¥^`]^`^PWJS¥`^aR[]ZY0^^^ZSSOW¥ZN  
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+HWI-EAS443:3:72:623:2014#0/1  
`aa]aa``\_aa¥]\_Ya`aa`\_Xa`aa`````\_`^`^^\_\_  
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+HWI-EAS443:3:72:636:1489#0/1  
a\_]W]a]U^^aa`\_]¥^¥\_aaaa^T[P\_T`a]¥]a`\_a¥a  
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+HWI-EAS443:3:72:64:1868#0/1  
aba¥b^a]\_babbbaS^VZ^aa[ZYa`\_b^`baY^a]\_\_  
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+HWI-EAS443:3:72:654:883#0/1  
`^^a\_¥^^V^a\_aaa¥YZ]a^aaaaa\_W]\_`\_]`¥]a0a  
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+HWI-EAS443:3:72:668:1372#0/1  
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+HWI-EAS443:3:72:66:1540#0/1  
aab`bb^U\_```b¥baaaa\_abaababaabaa]a]aaa\_a  
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+HWI-EAS443:3:72:671:1827#0/1  
abaaa`a\_W`aaa`aaaaaaaa`\_`a\_a`a`aaa\_^\_``^  
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a`baabb\_baX`ba`a^\_ba\_Wa^aaa\_baa`\_Y\_\_a`aa  
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+HWI-EAS443:3:72:71:1545#0/1  
a\_V``b`a`b\_[Q`abZ^a`^`ba[Z¥\_TYa`aa^PXYW]  
@HWI-EAS443:3:72:729:1852#0/1  
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+HWI-EAS443:3:72:729:1852#0/1  
\_OP]^\_aaY^`Ya\_Z[P[Z^^^\_WU[Y\_]XLNQX^\_\_[U  
@HWI-EAS443:3:72:73:1518#0/1  
AGGGAAAGAAGTCCTCGTGCTATGGGGCATTACCATCCA  
+HWI-EAS443:3:72:73:1518#0/1  
aaX]X`\_¥`¥][aa`\_Z^\_`^`¥[WY^]Y`\_a^U^Z`Z`  
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+HWI-EAS443:3:72:748:306#0/1  
\_Zbbbbbaa\_\_\_^]\_]b\_ZX]]\_aa\_\_\_aa`[\_`^`P^[^  
@HWI-EAS443:3:72:787:1227#0/1  
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+HWI-EAS443:3:72:787:1227#0/1  
aaabaaaaaaaaXa\_\_G¥\_`^a\_\_\_]\_`^\_\_\_`\_]\_¥]Z^



+HWI-EAS443:3:73:1018:412#0/1  
aaabaabbaabbbbbbabbbaabbbbbbabbaabaabbbba  
@HWI-EAS443:3:73:1067:620#0/1  
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+HWI-EAS443:3:73:1067:620#0/1  
\_\_a\_]\_a^`a^` `]`a^aa]\_¥` `a` ^^\_\_W]W0¥]^¥a^  
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+HWI-EAS443:3:73:1071:1424#0/1  
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+HWI-EAS443:3:73:1102:1920#0/1  
aabbababaaabbaababaa`aaaa\_aaaaa\_¥aVa`¥¥a`  
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GCATTCACCATCCATCTACTAGTGCTGACCAACAAAGTCT  
+HWI-EAS443:3:73:112:303#0/1  
`aaaaaa` `aW` `a`a\_ba\_\_\_U` ^^\_]\_\_\_]` \_\_T^^W^]  
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+HWI-EAS443:3:73:1130:1356#0/1  
aaaab^bbbaaaabb`ab\_a`aaaa`a`aa\_a`X` ^` `a^  
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+HWI-EAS443:3:73:1197:1381#0/1  
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@HWI-EAS443:3:73:1203:1952#0/1  
AATGGAACGTGTTACCCAGGAGATTTTCATCGATTATGAGG  
+HWI-EAS443:3:73:1203:1952#0/1  
a^¥aX[ ` \_b[b]¥SX]X[^[WaY]^Z]I]X][[^]a\_]Y]  
@HWI-EAS443:3:73:1239:774#0/1  
CACGATTGCAATACAACCTGTCAGACACCCAAGGGTGCTA  
+HWI-EAS443:3:73:1239:774#0/1  
RT[ \_`U` ^^\_Z` Zab¥Ua\_XSWZX\_aabb\_¥W\_ababI¥R  
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+HWI-EAS443:3:73:126:1963#0/1  
aT[b\_\_ [a\_[NPH][[Q\_¥`TZaN`Z`RXX¥¥\_GTZ\_\_URU  
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GTCCTCGTGCTATGGGCATTACCATCCATCTACTAGTG  
+HWI-EAS443:3:73:1284:1540#0/1  
aabbbbbbaaaaaabaaaaaa¥¥ba^aaaa`a[a  
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GAATTTCTTTTTTAACTAGCCATATTAATTTTTGTAGA  
+HWI-EAS443:3:73:1299:1250#0/1  
aZ^NZ\_V[QM^X^]ZTS[T\_OPW]\_\_\_TTT` ]Z][XS]\_^  
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+HWI-EAS443:3:73:134:2009#0/1  
Tabb\_[^`¥VQ¥` \_W]\_`UZ]b\_¥^abbbbaP` `b]Xa^H

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GCTCATTTTTGATGGTGATAACCGTACCATCCATCTACCAT  
+HWI-EAS443:3:73:1369:1308#0/1  
a^]a`a``]bXX``\_``X[\_R¥[FULUXU]UX^J[SFM^^  
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CTTCCTCTGAGTATTTTTGGGTAGTCATAAGTCCCATTTTT  
+HWI-EAS443:3:73:1378:346#0/1  
a`b`^`abbbb\_abaab^a^^ab`¥`ba\_a^^^[]bbaaa  
@HWI-EAS443:3:73:1393:23#0/1  
CATTTGAGATACACCAGTCCACGATTGCAATACAACCTTGT  
+HWI-EAS443:3:73:1393:23#0/1  
a^[\_a[b\_aaX`WV^]Y`STY`P¥VU\_a`T¥^¥¥0a[[X  
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+HWI-EAS443:3:73:1411:1502#0/1  
a^¥a`aaaaa^aaaaa^a\_`\_\_`V[\_]\_\_\_\_`\_a`^`aa^  
@HWI-EAS443:3:73:1421:1467#0/1  
CAGAATGCAGATGCATATGTTTTTGTGGGGACATCAAGAT  
+HWI-EAS443:3:73:1421:1467#0/1  
Z\_\_Y\_``¥V\_`^a]¥]]^\_`^\_X``b`U¥\_Q¥X¥\_Z^a`  
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TCCGGCTTGAACCTTCTTGCTGTATCTTGATGTCCCCACAA  
+HWI-EAS443:3:73:1436:1321#0/1  
```^W`\_¥[]^X\_W^a`N¥`L^[S^`WSSL)`\_SKZaaR  
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GCTAAGAGAGCAATTGAGCTCAGTGCATCATTTGAAAGG
+HWI-EAS443:3:73:1453:1320#0/1
X`bbabbb¥aabaa`aba`a]b_a_aa`b_abbb]Y[a]a
@HWI-EAS443:3:73:1463:436#0/1
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+HWI-EAS443:3:73:1463:436#0/1
aa_U_`_]_aa`QW`aZ`^[WQa`_`^__aU_`PTT)`^__
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+HWI-EAS443:3:73:1466:1768#0/1
a`bbba`_R^aaabaaaaaba_``ZZaa`aa`baaa¥a
@HWI-EAS443:3:73:148:734#0/1
AAAATGGGACTTATGACTACCCAAAATACTCAGAGGAAGC
+HWI-EAS443:3:73:148:734#0/1
a`a`a]¥S¥a]a_``a_`^_]U]`____^¥^^U¥¥T^_]
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+HWI-EAS443:3:73:1605:1249#0/1
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GCTGTATCTTGATGTCCCCACAAAAACATATGCATCTGCA
+HWI-EAS443:3:73:168:1381#0/1
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+HWI-EAS443:3:73:1705:1603#0/1
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+HWI-EAS443:3:73:1706:1309#0/1
a_aa[abaaaa^`aa`_^`_]`X____^`_]_[Z^`_`_
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+HWI-EAS443:3:73:1718:2019#0/1
`babb_¥abbaaaa_aaaa^_a_aa]`_X`^W``[Y^a
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+HWI-EAS443:3:73:173:1850#0/1
aa`^^^0[b_`Xa`_`^^QYYWT`[OV¥^][[^`_¥`¥YW
@HWI-EAS443:3:73:1743:734#0/1
CGGATGTATATTCTGAAATGGGAGGCTGGTGTATAGCA
+HWI-EAS443:3:73:1743:734#0/1
abbab`[`b]___a`aa_¥_U`_]PY[`Ya_a__^Z`
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+HWI-EAS443:3:73:1755:882#0/1
¥aaN¥U_Z¥`a`V_U`^T`XWSS^QSSQ¥_]`[Z^VRKJ
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+HWI-EAS443:3:73:175:115#0/1
aabbbbbWQ¥a_a[`aaYaaaa^a[___`^S`W^]VZ[U]
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ACTTTGGGTCTTATTGCTATTTCCGGCTTGAACCTCTTGC
+HWI-EAS443:3:73:193:1772#0/1
aaaaba`[SY]`a___a`a`_a_X`]__W^a¥¥____]X^
@HWI-EAS443:3:73:213:638#0/1
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+HWI-EAS443:3:73:213:638#0/1
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@HWI-EAS443:3:73:225:76#0/1
TGCCGTTTTCATTGAAGGGGGGTGGACAGGGATGGTAGAT
+HWI-EAS443:3:73:225:76#0/1
WX^bbbaabaab^Xaaaa`aYa`]^^[aS¥a¥U¥^P
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+HWI-EAS443:3:73:267:1680#0/1
aaa`babbbbbbbaUabaa`abbaa^a_a__a_[X_[_XX
@HWI-EAS443:3:73:268:511#0/1
GCTGCTTTGAATTTTACCACAAATGCGATAACACGTGCAT
+HWI-EAS443:3:73:268:511#0/1
aaaaaaabaa^aaaaaa_a_aaa`a`a__`__`X`_`__
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GCTGAGCTTTGGGTATGAATTTCTTTTTTAACTAGCCAT
+HWI-EAS443:3:73:289:493#0/1
aa`a_aa`aaaZ`P`a`Y`_`a`_`__^`]a`_`_`^U]__

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+HWI-EAS443:3:73:291:1739#0/1
ab^b_b^¥Zaaba`[`]Ya`aabaa_aa_^baa[`aaa___
@HWI-EAS443:3:73:292:669#0/1
GGCTGGTGTATAGCACCTTGGGTGTCTGACAAGTTGT
+HWI-EAS443:3:73:292:669#0/1
`_a^aZVa¥]aaaaa^_]_`a]¥_R]V___]R_¥¥aV^ZW
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+HWI-EAS443:3:73:311:279#0/1
abaa_a^`¥_aaa`aa`^aaa``a]ZXY[^_`^]_^`
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aba`ba]b_aabaaaa]YV[W__Z[PYP^XT_Q]____a_
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+HWI-EAS443:3:73:362:815#0/1
`_V¥]]`W`^X`_`^T[a_X[]_]_a`¥0[L]_¥_`]
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+HWI-EAS443:3:73:377:442#0/1
`Z]]a` `[`_Yaaa`]a`^]_aa__YaX_]a___]]`_]]^
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+HWI-EAS443:3:73:385:487#0/1
abbaaaaa`¥aaa`_aa_aaaa¥¥a]S^a]^`^`^`^`^`^`U^¥
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GCCGGTTTCATTGAAGGGGGTGGACAGGGATGGTAGATG
+HWI-EAS443:3:73:426:260#0/1
abbbbUab_abb`^ba]aab¥bb[X]aaaV_a`RZ`_Za
@HWI-EAS443:3:73:430:411#0/1
CCCCCTTCAATGAAACCGCAATGGCCCCAAATAGGCCTC
+HWI-EAS443:3:73:430:411#0/1
Yaa]`Tabb__aab^^[0[bZ`QU¥QOZ^^__RV_]a¥Z
@HWI-EAS443:3:73:478:737#0/1
CGGCTCTACTAGTGTCCAGTAATAGTTCATTCTCCCTTCT
+HWI-EAS443:3:73:478:737#0/1
aabbab`baa``_a[_a[___`aZ[R_^__a^¥Ya[[____
@HWI-EAS443:3:73:501:993#0/1
ATGAGGACATGCTGCCGTTACACCTTGTTCGAGTCATGA
+HWI-EAS443:3:73:501:993#0/1
`_]```aaaaa_a``a^WJRV_a¥__^Z```Z^Q[___[U
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GGGAAATCCAGAGTGTGAATCACTCTCCACAGCAAGCTCA
+HWI-EAS443:3:73:511:101#0/1
ababbbbaaabab_a`baaa`a^a_a_]a]`a_^_]_Y_
@HWI-EAS443:3:73:559:1966#0/1
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+HWI-EAS443:3:73:559:1966#0/1
abaa[``T__aa`[_aW^)`_]Y^_^]a^`_V_^_Y___V
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+HWI-EAS443:3:73:560:207#0/1
`a^aa`_W^aY`Z¥`][`]Y¥Z^`^]¥W¥¥Z]YZ]BBBBB
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TTAGAGCACATCCAGAACTGATTGCCCCAGGGAGACTA
+HWI-EAS443:3:73:58:1277#0/1
aaaab¥bbabaaaa_]a^a`_aa``aaaa`_`^`___`ZV
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+HWI-EAS443:3:73:622:1974#0/1
a`abb`abbbbaabbbbaabbaaaaa]^bba`a__aaa`_`_`
@HWI-EAS443:3:73:636:1147#0/1
CTCGTGCTATGGGGCATTACCATCCATCTACTAGTGCTG
+HWI-EAS443:3:73:636:1147#0/1
__¥M[ba]_]_]_]`a^Z`a`]`_]`a^aaa_¥]]Xa]]_`
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+HWI-EAS443:3:73:697:825#0/1
a`aaaaaaaaaaaa_aa`_a`X¥Z_a]_^`a^`__`^a`^]
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AGCCAGTTAAAAACAATGCCAAGGAAATTGGAAACGGCT
+HWI-EAS443:3:73:805:1240#0/1
]Zab^^_abaa```aaaa_aa``Z^`aa`a_aaa]_^`_`
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GGGGTCAGGATATGCAGCCGACCTGAAGAGCACACAGAAT
+HWI-EAS443:3:73:826:205#0/1
```¥Z]aaX`\_]H^^`\_\_S`^RU\_]R[X[\_TX¥¥^VZWTW  
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+HWI-EAS443:3:73:844:1195#0/1  
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@HWI-EAS443:3:73:853:2031#0/1  
AGCCAGTTAAAAACAATGCCAAGGAAATTGGAAACGGCT  
+HWI-EAS443:3:73:853:2031#0/1  
aZ^^aa]`a`\_`¥a`\_\_^[aX^Z\_^\_^]]]X^Y^^]Z\_V  
@HWI-EAS443:3:73:857:370#0/1  
GAACGTGTTACCCAGGAGATTTTCATCGATTATGAGGAGCT  
+HWI-EAS443:3:73:857:370#0/1  
aaa`b`aaaaaaaaabaaa\_aaaa\_b`a`aaaab\_a``\_¥a  
@HWI-EAS443:3:73:85:44#0/1  
GGGCCATGAACTTGTCTTGGGAATATCTCAAACCTTTCA  
+HWI-EAS443:3:73:85:44#0/1  
a^a`^^^`^\_Y\_\_\_Y^\_^\_^\_YYX^]X\_]X]Z]ZZ]  
@HWI-EAS443:3:73:866:1485#0/1  
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+HWI-EAS443:3:73:866:1485#0/1  
I\_[RTa^\_baabbaabbb\_bba^`aab^baabb\_\_bbbaa

@HWI-EAS443:3:73:903:626#0/1  
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aaaa\_aba`aaa\_]`][Z^Taa\_`^X``[\_`¥ER`X¥\_  
@HWI-EAS443:3:73:921:203#0/1  
CAAAGTCTCTATCAGAATGCAGATGCATATGTTTTTGTGG  
+HWI-EAS443:3:73:921:203#0/1  
abbaaaaaabaa`baaaa\_\_\_a`aaa\_aaaa``aaaa\_a`  
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+HWI-EAS443:3:73:960:1654#0/1  
aU^`^Xb]¥]¥Sbba\_a\_X`ba`]baa^Za`]`\_ZIYQU^  
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+HWI-EAS443:3:73:97:50#0/1  
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+HWI-EAS443:3:73:99:758#0/1  
YP]^`¥aa^`\_]a\_\_\_]K`a^]b[^S¥`aa]\_aaa]]¥]U  
@HWI-EAS443:3:74:1109:704#0/1  
TTTGTTAGTAATCTCGTCAATGGCATTCTGTGTGCTCTTC  
+HWI-EAS443:3:74:1109:704#0/1  
abb¥OUPR^\_b]`^Y`[^`aXa\_aabaX]aTY`\_QVY]UF  
@HWI-EAS443:3:74:1111:236#0/1  
CTGGCTGGATCCTGGGAAATCCAGAGTGTGAATCACTCTC  
+HWI-EAS443:3:74:1111:236#0/1  
I\_bbbbb``a`\_`\_Z\_]bb\_W¥[aa\_aaabb]ab]bbab]  
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GCCGGTTTCATTGAAGGGGGTGGACAGGGATGGTAGATG  
+HWI-EAS443:3:74:1127:1083#0/1  
M^\_¥Z¥\_Y^\_a`aT¥¥ba\_^\_U`\_YWZW¥XZ¥\_WRZ\_ZU]  
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GGGGCATTACCATCCATCTACTAGTGCTGACCAACAAAG  
+HWI-EAS443:3:74:1144:1690#0/1  
`^ [YTWY]]a[T` [V\_a]`X[¥¥¥VHR[V[XM`^YZ[T¥Z  
@HWI-EAS443:3:74:1180:770#0/1  
AAATGCGATAACACGTGCATGGAAAGTGTCAAAAATGGGA  
+HWI-EAS443:3:74:1180:770#0/1  
aa¥aa\_\_V\_^M]aa`X¥[aa\_Y\_a`ZX]]aa^[^^aaa\_`  
@HWI-EAS443:3:74:1214:1481#0/1  
GATTCACACTCTGGATTTCCAGGATCCAGCCAGCAATGT  
+HWI-EAS443:3:74:1214:1481#0/1  
`VbZ^^^bY`^a\_a[aaaXaVYbb¥X\_O\_QU\_RXH]S]Va  
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CTGTGTATTTCATCTTTTCAATAACAGAATTTACTTTGTTA  
+HWI-EAS443:3:74:1251:210#0/1  
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@HWI-EAS443:3:74:1283:1016#0/1  
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+HWI-EAS443:3:74:1283:1016#0/1  
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+HWI-EAS443:3:74:1284:273#0/1  
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CTCTGAGTATTTTGGGTAGTCATAAGTCCCATTTTGGACA  
+HWI-EAS443:3:74:1360:1588#0/1  
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GGCTGCATATCCTGACCCCTGCTCATTTTGATGGTGATAA  
+HWI-EAS443:3:74:1393:953#0/1  
V]b]baZ]bab[bVbaW\_[\_]VKaU`Yaa[``bX[Wb[b`\_  
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+HWI-EAS443:3:74:1402:745#0/1  
aa^a`S]ab]`ba`aab`aaa]`a`a`]a]W\_``]aaN\_  
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GAAGTCCTCGTCTATGGGGCATTACCATCCATCTACTA  
+HWI-EAS443:3:74:1436:214#0/1  
`^\_\_Q\_a\_OVbaT\_ba`^Z`a[aaIaa[a^LS^aUV]T` [  
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+HWI-EAS443:3:74:1446:183#0/1  
a`T\_a[^SWW`XYaZVa\_ROY\_a`[R`QFPIa`aX]`aW^  
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+HWI-EAS443:3:74:147:1550#0/1  
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+HWI-EAS443:3:74:153:17#0/1  
aaa`\_a\_aa`\_\_a`¥Z\_\_\_\_``]^]\_[ZW[GTZ^MPWSY  
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AGTTCTTTCACATTTGAATCGTGGTAGTCCAAAGTTCTTTC  
+HWI-EAS443:3:74:1544:377#0/1  
aaababbababbabbaaaababb¥ab[ZVa``[[a\_aaa]  
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+HWI-EAS443:3:74:1607:147#0/1  
aV`a^`a`\_aa]a\_\_X`\_a\_a\_\_\_¥\_aY`aa^]X`[ZZYY  
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+HWI-EAS443:3:74:1628:1021#0/1  
a¥`^^bba\_ab¥aaaabZZ^ba`^Yaaaab``\_a``\_^YS  
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AATCTCGTCAATGGCATTCTGTGTGCTCTTCAGGTCGGCT  
+HWI-EAS443:3:74:1674:237#0/1  
aab\_a\_WZa]X`R`\_Z]a\_[R¥a^\_Ub[Z]S\_\_`P¥WBBB

@HWI-EAS443:3:74:232:1704#0/1  
ATGCAGATGCATATGTTTTGTGGGGACATCAAGATACAG  
+HWI-EAS443:3:74:232:1704#0/1  
X^`bVOZV]`b]VYaTaa\_`^LZFYJX\_Y]`aV¥a^^Z^^  
@HWI-EAS443:3:74:234:23#0/1  
GTGGGGACATCAAGATACAGCAAGAAGTTCAAGCCGGAAA  
+HWI-EAS443:3:74:234:23#0/1  
aaaaa\_\_Z^X¥`^a^[\_`a^\_aa^]aU]]Y]^ [Ya]ZZ^  
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CAATGCCAAGGAAATTGGAAACGGCTGCTTTGAATTTTAC  
+HWI-EAS443:3:74:235:1160#0/1  
aba` ``b^a^¥^a\_aa`a\_aa`\_^\_\_GQXWGSLLW][LL  
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+HWI-EAS443:3:74:248:535#0/1  
aba` ``\_ba\_KXY\_aa\_\_^\_\_Z[\_[]a¥\_\_aZ\_\_¥` ]Z]  
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+HWI-EAS443:3:74:264:743#0/1  
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+HWI-EAS443:3:74:292:345#0/1  
`a\_¥¥b\_ZWa`aaa`^^ba^\_\_NNZ\_]Y\_Y^a[QF[\_P[  
@HWI-EAS443:3:74:304:192#0/1  
CTGGCTGGATCCTGGGAAATCCAGAGTGTGAATCACTCTC  
+HWI-EAS443:3:74:304:192#0/1  
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TGGGGCTACCCCTCTTAGTTTGCATAGTTTCCCGTTATGC  
+HWI-EAS443:3:74:30:591#0/1  
aab`]aaa]`baaaaa]WYa` ``a`\_`^`]]]`\_]`\_^¥[  
@HWI-EAS443:3:74:367:1421#0/1  
ATTTTGGACATTTTCCAATTGTGATCGGATGTATATTCTG  
+HWI-EAS443:3:74:367:1421#0/1  
aaaaaaaaa`aaa\_a^a\_aaXR[ `[ `a¥[¥aWWU^USS[S  
@HWI-EAS443:3:74:36:1399#0/1  
GGACATTTGGACTTACAATGCCGAAGTGTGGTTCTATTG  
+HWI-EAS443:3:74:36:1399#0/1  
SXR^¥\_`^\_J¥¥P]b^[V[¥` `Z` [Z¥SX¥\_TPP[YGG[ `  
@HWI-EAS443:3:74:371:644#0/1  
GCTGGCTGGATCCTGGGAAATCCAGAGTGTGAATCACTCT  
+HWI-EAS443:3:74:371:644#0/1  
aa`X`a^Z\_`[\_a[¥^W`aaZ`\_ [UZ]V¥U`\_`¥VMWUW  
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GCTGCTTTGAATTTTACCACAAATGCGATAACACGTGCAT  
+HWI-EAS443:3:74:402:1103#0/1  
abaaa`\_aZ\_aabaabababba]`a`a^¥a`\_aa`W` ``^  
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+HWI-EAS443:3:74:41:2006#0/1  
Za`]'`a`aU]Z[V[a\_\_\_\_\_][^`Z\_Y\_]H#Z``\_X`\_[]  
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+HWI-EAS443:3:74:448:36#0/1  
a`a^aaa]`````aaaab^`\_#``#\_][Wa\_X^[]  
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TGGCTGGATCCTGGGAAATCCAGAGTGTGAATCACTCTCC  
+HWI-EAS443:3:74:467:696#0/1  
a\_\_]a]\_\_^\_\_^[]Z[\_`\_Z^^^SZW\_W[ZZ#U^ZVW#T  
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+HWI-EAS443:3:74:478:800#0/1  
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CATTTGAAAGGTTTGAGATATCCCCAAGACAAGTTCATG  
+HWI-EAS443:3:74:504:1009#0/1  
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+HWI-EAS443:3:74:570:93#0/1  
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+HWI-EAS443:3:74:573:1038#0/1  
#`b^`#a#aY`b]aa`]\_aZY`^\_[````]V]`^^``aYM  
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+HWI-EAS443:3:74:621:1691#0/1  
a\_abba`\_aa]aa`aaaab\_\_aaaaaaaaaaaaaaaa\_a`  
@HWI-EAS443:3:74:626:507#0/1  
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+HWI-EAS443:3:74:626:507#0/1  
a`baaabbaaa`abb`aaa`aab\_\_a]`aaa`aa`a`\_\_^  
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GCAGGGGTCAGGATATGCAGCCGACCTGAAGAGCACACAG  
+HWI-EAS443:3:74:626:594#0/1  
ZZ\_W]X^H]b\_\_a[^X```Z`^`^\_Z`^^`aaa`\_aa]]aa  
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GCTGGCTGGATCCTGGGAAATCCAGAGTGTGAATCACTCT  
+HWI-EAS443:3:74:659:220#0/1  
ab]]`b`a]P[X\_[^R]\_aa^ZX[^`^#GYY`#Y]UYPQRW  
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+HWI-EAS443:3:74:666:1924#0/1  
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+HWI-EAS443:3:74:677:300#0/1  
aba]`ab\_aaaaaa`aa`aa`\_\_``¥¥T\_\_\_^`\_\_][Z¥  
@HWI-EAS443:3:74:701:238#0/1  
CCGGCTTGAACCTTCTTGCTGTATCTTGATGTCCCCACAAA  
+HWI-EAS443:3:74:701:238#0/1  
abababbbbababababba`baaaaa`abba^aa\_a`a\_a  
@HWI-EAS443:3:74:713:372#0/1  
GGCCAGTCTCAATTTTGTGCTTTTTACATATTTTGGACAT  
+HWI-EAS443:3:74:713:372#0/1  
a¥bba¥F\_]`[``aaa`Uaaaaaaaabaaaaaba^\_\_``  
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+HWI-EAS443:3:74:728:567#0/1  
a`bababbbbbbabb`bbb[bb\_bbbbaabba\_a  
@HWI-EAS443:3:74:769:484#0/1  
GCCGGTTTCATTGAAGGGGGTGGACAGGGATGGTAGATG  
+HWI-EAS443:3:74:769:484#0/1  
aaabb^bbb]bbbaaba\_baa0baaaaaaaba]aa^^^  
@HWI-EAS443:3:74:791:1329#0/1  
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+HWI-EAS443:3:74:791:1329#0/1  
]aaaaaaa]b`\_`]baaaaaaaa\_aa``aaab```  
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CTTGAACCTTCTTGCTGTATCTTGATGTCCCCACAAAAACA  
+HWI-EAS443:3:74:816:203#0/1  
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@HWI-EAS443:3:74:839:1539#0/1  
CTTATATGAAAAGGTAAGAAGCCAGTTAAAAACAATGCC  
+HWI-EAS443:3:74:839:1539#0/1  
``b`^`ba`a`UY[L\_b[¥\_`aa^[SK`a\_a]abaa]`\_X  
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+HWI-EAS443:3:74:840:1034#0/1  
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+HWI-EAS443:3:74:844:628#0/1  
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@HWI-EAS443:3:74:857:585#0/1  
GCTGTATCTTGATGTCCCCACAAAAACATATGCATCTGCA  
+HWI-EAS443:3:74:857:585#0/1  
aabaabaabb`aaaa`a^aaaa\_aaaa`aaa\_aa``\_]`  
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GCTGGCTGGATCCTGGGAAATCCAGAGTGTGAATCACTCT  
+HWI-EAS443:3:74:894:1425#0/1  
¥\_b`\_`\_b`[\_b\_J\_a]X\_``¥`\_^¥PX\_]W\_`[\_][YX]  
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GGGGACATCAAGATACAGCAAGAAGTTCAAGCCGAAATA

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@HWI-EAS443:3:75:101:501#0/1  
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+HWI-EAS443:3:75:101:501#0/1  
aaa]¥aaaa¥aaaaaa]^`\_aaa\_aaa`a`\_a\_`a```^  
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+HWI-EAS443:3:75:1041:1832#0/1  
U¥b¥bY¥`bUb`a^aZ\_a`\_aaab`aV`\_aabbaXaba\_b  
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CATCATTTGAAAGTTTGAGATATCCCCAAGACAAGTTC  
+HWI-EAS443:3:75:1046:541#0/1  
[b\_bb\_bb``¥¥`V\_bbbbbbb\_ab¥¥Y¥b`b\_a^^`]a`  
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+HWI-EAS443:3:75:1080:2030#0/1  
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@HWI-EAS443:3:75:1083:1708#0/1  
ATTTACTTTGTTAGTAATCTCGTCAATGGCATTCTGTGTG  
+HWI-EAS443:3:75:1083:1708#0/1  
aba`^W^aa```a`^aaa```a\_aaa`\_``^a`\_`a]aZ\_  
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+HWI-EAS443:3:75:1093:1907#0/1  
aa`V¥]ZaaWUO\_\_Y\_`Y``\_a¥W\_\_aaYaTa]¥[aV\_`\_  
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+HWI-EAS443:3:75:1094:1164#0/1  
aa^Tbbaaabab]a\_]`^`a\_a\_[PY^a`abaaa\_\_a^a`\_  
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+HWI-EAS443:3:75:1146:317#0/1  
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+HWI-EAS443:3:75:1159:1317#0/1  
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TGAGGACATGCTGCCGTTACACCTTTGTTTCGAGTCATGAT  
+HWI-EAS443:3:75:115:1732#0/1  
aaba\_bbbaaa\_[b`a`X`\_b`a`\_]T[\_[V[UU]a\_\_`]  
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CATGAACCTTGTCTTGGGAATATCTCAAACCTTTCAAATG  
+HWI-EAS443:3:75:1161:1946#0/1  
abbbbbbbbaaaabaaabaaaaaaaa\_bbaa\_aaaaa`a`\_  
@HWI-EAS443:3:75:1168:1872#0/1  
ATGGCATTCTGTGTGCTCTTCAGGTCGGCTGCATATCCTG  
+HWI-EAS443:3:75:1168:1872#0/1  
^Za\_U\_]ab\_]UbaaaaX``ba[Y]U`\_aZ^[]b`]GNP  
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+HWI-EAS443:3:75:1272:1212#0/1  
\_]`^X`¥aTZ`^V``\_U]^YT¥\_]¥]Z\_WZ¥UO^`^`^a  
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GGAAATCCAGAGTGTGAATCACTCTCCACAGCAAGCTCAT  
+HWI-EAS443:3:75:1307:1834#0/1  
a`]a\_ZT\_bb`aZ`P`aa[¥a\_aaV¥\_aZa¥aaaaZRY\_]`  
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GACTACCCAAAATACTCAGAGGAAGCAAAATTAACAGAG  
+HWI-EAS443:3:75:130:1508#0/1  
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+HWI-EAS443:3:75:1335:632#0/1  
a[a\_a¥a\_aaa]aa`aaa\_[[`a^\_a]W\_aa``\_`^a¥^¥`  
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+HWI-EAS443:3:75:1416:840#0/1  
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+HWI-EAS443:3:75:1422:504#0/1  
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+HWI-EAS443:3:75:1710:1469#0/1  
a¥Y\_b`¥Z^a`R`a[^aa^\_V\_`b^abaXa[]][Z`W¥]\_a  
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+HWI-EAS443:3:75:1720:1462#0/1  
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+HWI-EAS443:3:75:1731:1420#0/1  
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¥W[a\_Z[\_a`\_`aZZVTab^aba\_WaWQ\_\_[\_`Z`^a^V`a`  
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+HWI-EAS443:3:75:1746:195#0/1  
^`Z`\_aa\_a\_\_¥a`\_baabaa¥¥[H^` `RXb`\_a\_]\_¥a  
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+HWI-EAS443:3:75:194:720#0/1  
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+HWI-EAS443:3:75:282:515#0/1  
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+HWI-EAS443:3:75:291:124#0/1  
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+HWI-EAS443:3:75:298:1734#0/1  
^a^[[` `babab`a`\_`aaaa`aa]\_]\_a\_`]Waa\_\_a\_U

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+HWI-EAS443:3:75:313:1958#0/1  
[`baaaaZ][aab\_`aaaYaY]^¥a^\_aa`a¥¥]``]\_\_[  
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+HWI-EAS443:3:75:420:1340#0/1  
a`\_`a`\_```aa\_`aa`Y^a\_``\_a`\_Y]\_\_\_\_^^]\_\_`  
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+HWI-EAS443:3:75:432:827#0/1  
abab`ba¥aa\_\_b^`a`ab`a`a`a\_\_a^`ba`XZ¥a\_  
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aaaa\_Y[¥a[a\_TR\_ZX[\_`^a^\_¥^¥W]^a`aaYY[Y`b  
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+HWI-EAS443:3:75:489:1342#0/1  
aba```^\_Zaa`]]`X`a¥¥XYZXQ]Q````YZ[]a[¥  
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a\_aaaa`Y¥\_a`Yaaa\_aaa\_\_aa^`\_^`\_`W]\_^][¥]^  
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+HWI-EAS443:3:75:559:1795#0/1  
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+HWI-EAS443:3:75:623:1370#0/1  
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+HWI-EAS443:3:75:701:1480#0/1  
YTabbba^^a` `` `aab^U[bbabaaaabaab`ba^aa  
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+HWI-EAS443:3:75:710:138#0/1  
aabb` `` `aaa^ab\_`aaaaa¥\_aa` `a` `[`a\_`\_` `^  
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+HWI-EAS443:3:75:728:144#0/1  
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+HWI-EAS443:3:75:767:792#0/1  
`I^U¥\_`a^TVUZRZ\_X]\_Q^ [`Z\_YOZ¥`R]a¥S\_` `X  
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+HWI-EAS443:3:75:781:129#0/1  
^¥Z\_Z]ab\_` [`a^^b]Vb`^b^aa`bQ`]a]^][R\_V\_L  
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+HWI-EAS443:3:75:787:523#0/1  
Y¥` [ [`¥Y\_a` ` `b\_]\_aa¥R\_a`V`b¥\_bb\_b\_K\_a¥V\_  
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aab]R\_X¥`¥TFUaaa\_`aaV^`\_[]\_ [`\_`0`\_` `¥\_¥\_ZZ  
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+HWI-EAS443:3:76:1441:206#0/1  
R`babb\_\_S¥bVbb\_a\_^¥`U\_]`^b]abab¥`ba[baaa^  
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+HWI-EAS443:3:76:148:1073#0/1  
aa\_XaYaZaa`aaaaa\_aaa`P[\_\_aaZ]UV¥^]\_\_]V]  
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+HWI-EAS443:3:76:1521:1373#0/1  
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`¥\_\_¥aaYa`X][^^`a\_aY`]^X\_\_[\_X0[U\_\_aV[U]  
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+HWI-EAS443:3:76:467:916#0/1  
aaaba[a]]]\_aa`aa`a\_\_`^^^^`^a¥^¥\_\_``\_\_\_^\_  
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+HWI-EAS443:3:76:562:1037#0/1  
\_^\_¥¥[\_¥¥a`a\_aabaV\_WU^^^`bH\_V\_\_Z¥]U][  
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+HWI-EAS443:3:76:619:1329#0/1  
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+HWI-EAS443:3:76:629:1333#0/1  
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]¥Y\_ZZ` ]`T\_a`aa` ]^]V\_a¥H]YaZX`WU`a\_YV]\_¥  
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+HWI-EAS443:3:76:871:1163#0/1  
aa\_a`a^`baa^^aaaa¥` ` [ `aa`U^] ` \_ `a` `W\_[Q]  
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aa^`a\_aaaaaa`^\_a\_a\_a`\_^\_[TW^¥^Q]ZZ^]]X^^  
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aW^Z] ` [¥WYR¥]]^X^^W\_\_ [VV]X^^X¥VY]WU[XUTU  
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a[¥¥Z[\_a\_a^`UUW\_Y\_\_\_¥FR[YTXYWY]WTXXX]]]]  
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+HWI-EAS443:3:76:987:1457#0/1  
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+HWI-EAS443:3:77:1004:234#0/1  
abba` `bbbbba\_\_ba\_\_b\_bb\_\_a] `^`^X`a`¥`\_^`a  
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+HWI-EAS443:3:77:1070:791#0/1  
ab^`aabbbaaaa`bbaab`bbaabSaaaaa``abab`a\_  
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aa¥^b`b`a`]]U]a`bZWX^[`aa``¥[aa¥¥a``a\_`a  
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`QV¥Y¥aa[^`a^`\_\_aa`]X^\_a\_^]^^\_]^\_\_]\_T¥]  
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a\_a`\_\_\_\_a^^Y\_]`¥`^a]^`\_]`[]`\_^]\_]Z]^^\_\_  
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a`a`a`b\_aab`a`aaa\_a^¥`\_J\_\_`]\_ZU[H\_^\_XUSO  
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+HWI-EAS443:3:77:1323:479#0/1  
[``^Za`T^YZ\_\_JS¥a\_a^P¥```YS\_aa[\_a^U\_Z\_^\_  
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+HWI-EAS443:3:77:136:2001#0/1  
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+HWI-EAS443:3:77:1462:374#0/1  
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¥b[Y]`aa_X`^`b```ab¥a`^`[OZ_Raaaa`VUMZ`
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+HWI-EAS443:3:77:1627:1262#0/1
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[^__S_¥`[`b`bb¥baa^S^a`a¥¥`bVb[M_`a`ab^^
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+HWI-EAS443:3:77:190:1099#0/1
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+HWI-EAS443:3:77:19:1641#0/1
`ba¥VZZ_abY`abYY`¥Y^^R`^aVZ^_U`ZU``^aa[^
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+HWI-EAS443:3:77:426:949#0/1
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+HWI-EAS443:3:77:555:1682#0/1
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+HWI-EAS443:3:77:565:64#0/1
abb`b_^_bbbbabbbbbbbbaa^[aabaWb_a`a]a]]
@HWI-EAS443:3:77:568:112#0/1
ACCAGTACCAATGAACTGGCGACAGTTGAATAGATCGCCA
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aa_aa]]__a`aaaa___aaa¥Z_X^_¥[Y_^_^^_YX¥
@HWI-EAS443:3:77:568:1778#0/1
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+HWI-EAS443:3:77:568:1778#0/1
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@HWI-EAS443:3:77:572:1325#0/1
ATTTTGGGTAGTCATAAGTCCCATTTTTGACACTTTCCAT
+HWI-EAS443:3:77:572:1325#0/1
aaK^`a^LXMY]aa`^L¥aa^Z`V`_a¥VW]a__UMWZ]
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GGAACGTGTTACCCAGGAGATTTTCATCGATTATGAGGAGC
+HWI-EAS443:3:77:57:321#0/1
a`_a^aS`^`^W]_`_]`V^]_^[_^^^]XY]_^]
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TAAGAAGCCAGTTAAAAACAATGCCAAGGAAATTGGAAA
+HWI-EAS443:3:77:589:949#0/1
`¥Z¥aY`__¥¥Yab__[X__]_^`^^YZ¥]_aY]_a^`]
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TGGGGACATCAAGATACAGCAAGAAGTTCAAGCCGAAAT
+HWI-EAS443:3:77:601:186#0/1
abaaaaabaaa`aaaaa`aa^aa`__a^^_a^___a]__``
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+HWI-EAS443:3:77:602:753#0/1
abbababba¥]__b`_^`¥Y`_`W`a`^][`]Y]`_a
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+HWI-EAS443:3:77:611:146#0/1
Sa`a_¥¥`¥X`Zab^]_[ZOR]N][K[a^¥¥RLV¥LZYSZ
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+HWI-EAS443:3:77:686:358#0/1
abbbbaaab`aaaaaaaaa`a`aa^¥`a_b_aa`aa___^
@HWI-EAS443:3:77:69:1626#0/1
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+HWI-EAS443:3:77:69:1626#0/1
a]__aa`a`a`_ab_aaaa`_`¥]a¥]]^a_____ZXYY
@HWI-EAS443:3:77:708:230#0/1
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+HWI-EAS443:3:77:708:230#0/1
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@HWI-EAS443:3:77:714:1765#0/1
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+HWI-EAS443:3:77:714:1765#0/1
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@HWI-EAS443:3:77:727:1618#0/1
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+HWI-EAS443:3:77:727:1618#0/1
a`¥babbabbaabaaaa`abaa_^_aa`_^_`¥GK¥_GV
@HWI-EAS443:3:77:748:1214#0/1
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+HWI-EAS443:3:77:748:1214#0/1
ab`^bbbbbZ`[a^a`a`a___aaa`aaaa^¥aaaa`a`
@HWI-EAS443:3:77:765:48#0/1
GCATATCCTGACCCCTGCTCATTTTGATGGTGATAACCGT
+HWI-EAS443:3:77:765:48#0/1
a_¥YY]¥_`a_UYZ]___¥YYWU_XRXY]]V]]^]SFVV
@HWI-EAS443:3:77:790:1470#0/1
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+HWI-EAS443:3:77:790:1470#0/1
abbaaab¥ba`aaaaaaaaaaaa`^_aa^aa^a^a`^`a___
@HWI-EAS443:3:77:813:569#0/1
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+HWI-EAS443:3:77:813:569#0/1
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@HWI-EAS443:3:77:831:982#0/1
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+HWI-EAS443:3:77:831:982#0/1
ZZ)`aaaa¥Y^`^`a[`aaa]aW¥]^`^Xa_V^^`_`
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+HWI-EAS443:3:77:856:841#0/1
aa`^Uba¥aaZ0]ZV]aaa`]a_aab^[`^`^`^`¥aa]a___
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+HWI-EAS443:3:77:866:789#0/1
`a`_a_^X_b^^^b_a`^^`^`a]X_V[^`_`aaa_b_^¥^
@HWI-EAS443:3:77:874:657#0/1
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+HWI-EAS443:3:77:874:657#0/1
`abbbabaZ^_abbbabbaabaa`a`^bbaaba_babaab
@HWI-EAS443:3:77:920:1315#0/1
GGGGACATCAAGATACAGCAAGAAGTTCAAGCCGAAATA
+HWI-EAS443:3:77:920:1315#0/1
_^aa`¥S__Za`¥X_a__W_aX^Z]IW)`[YY^ZXNY`^_
@HWI-EAS443:3:77:939:1435#0/1
GCTGGCTGGATCCTGGGAAATCCAGAGTGTGAATCACTCT
+HWI-EAS443:3:77:939:1435#0/1
aaabaa[Z]_aaa`^aa^aa][X`_]¥V_Z`Z`¥¥^^^`_`
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+HWI-EAS443:3:77:949:1442#0/1
a`_Z_]G]aX]¥L`¥_]`aZ]]aa`¥¥Q[^WWT]LU]
@HWI-EAS443:3:77:952:1711#0/1
ATTCCCCAAGACAAGTTCATGGCCCAATCATGACTCGAAC
+HWI-EAS443:3:77:952:1711#0/1
Z`^^¥a_]W`_]ORZX`W`]JZ¥ZX`aYT[VV][[TT
@HWI-EAS443:3:77:957:305#0/1
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+HWI-EAS443:3:77:957:305#0/1
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@HWI-EAS443:3:78:100:759#0/1
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+HWI-EAS443:3:78:100:759#0/1
¥V`_`^^a^_^]LPSY¥^aZ0Q¥Z`X[HR^__TV]SYXSY
@HWI-EAS443:3:78:102:1170#0/1
CACTCTGTAACTTCTAGAAGACAAGCATAACGGGAAAC
+HWI-EAS443:3:78:102:1170#0/1
a]bbaaa[aaaaaa`baaaaaa[`a`aa`aXaa_`^``_`
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GAAAGAAGTCCTCGTGTATGGGGCATTACCATCCATCT
+HWI-EAS443:3:78:1033:424#0/1
aaaaa`a^__`[a_`_`]aa[___]`___]``^`_]X_^U]
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+HWI-EAS443:3:78:1052:1211#0/1
aaaa`aba`]FY_`a`_aa¥`]___]`WZa`____`^`¥
@HWI-EAS443:3:78:106:643#0/1
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+HWI-EAS443:3:78:106:643#0/1
a`a`aaa`babbaa___a`__[_^`_]¥Z`Y[Z^U¥¥W
@HWI-EAS443:3:78:1108:400#0/1
GCTATTTCCGGCTTGAACCTTCTGCTGTATCTTGATGTCC
+HWI-EAS443:3:78:1108:400#0/1
^JX[`QL^WR¥QNOVJU_RUPNS^JV]_^]^UW¥LG¥KMF
@HWI-EAS443:3:78:1112:1870#0/1
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+HWI-EAS443:3:78:1112:1870#0/1
`^^a`aaaa`Waa`Z`a[`a`_¥a`]X`_]__a^`_Y`_
@HWI-EAS443:3:78:1211:37#0/1
TTGGCCCATGAACTTGTCTTGGGGAATATCTCAAACCTTT
+HWI-EAS443:3:78:1211:37#0/1
^^_aa_TW`b[¥``SX]aa`a`P[a][N¥V][WSO[^X
@HWI-EAS443:3:78:1249:1291#0/1
GAAGCCAGTTAAAAACAATGCCAAGGAAATTGGAAACGG
+HWI-EAS443:3:78:1249:1291#0/1
PR^¥`V_b`bbab[X[a^[¥b_YZ]aa`a^U¥__^]]Waa
@HWI-EAS443:3:78:1326:1840#0/1
GGGGACATCAAGATACAGCAAGAAGTTCAAGCCGGAAATA
+HWI-EAS443:3:78:1326:1840#0/1
a`[`a]aV`aa`_]ZP`^aa`]¥`T_Va]_]a¥]]^^_`

@HWI-EAS443:3:78:1342:650#0/1
GGCCAGTCTCAATTTTGTGCTTTTACATATTTTGGACAT
+HWI-EAS443:3:78:1342:650#0/1
`ba]aa#` ` _]_^`^`a]_a_a_a`aY]___a`a` `^[_]
@HWI-EAS443:3:78:1369:429#0/1
GGGACATCAAGATACAGCAAGAAGTTCAAGCCGGAAATAG
+HWI-EAS443:3:78:1369:429#0/1
_aa__a_aaaba^a^aa^abaa`a^_]a_^_a^`^`_a^_
@HWI-EAS443:3:78:1370:911#0/1
ATCCTTGTTGATTCCAGCTTACCCTATCTATTTCTTCTC
+HWI-EAS443:3:78:1370:911#0/1
aaY`a^aabbaa`ZN_baY^a[QXYSXZN_aaaaS_`[a]
@HWI-EAS443:3:78:1459:227#0/1
TGTTACCCAGGAGATTTTCATCGATTATGAGGAGCTAAGAG
+HWI-EAS443:3:78:1459:227#0/1
`baa`_Waaaa_a^__a_aG_Z^_aa]_`Z_Y_^`^`]
@HWI-EAS443:3:78:1499:120#0/1
ATCAAGATACAGCAAGAAGTTCAAGCCGGAAATAGCAATA
+HWI-EAS443:3:78:1499:120#0/1
a_`_[a#_]]SM_`_Y_]OZV[X]Z]_RZ]_Z]OZX]X
@HWI-EAS443:3:78:1529:1214#0/1
ATGAACCTGTCCTGGGAATATCTCAAACCTTTCAAATGA
+HWI-EAS443:3:78:1529:1214#0/1
^aa`_a^a`aaabbaa]Pa]aRa^a`_]Uaa_`^_`_`
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+HWI-EAS443:3:78:1591:814#0/1
_a_0_abababba_aabbabb^bbb#b`bbbabb#`b_`b
@HWI-EAS443:3:78:1595:473#0/1
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+HWI-EAS443:3:78:1595:473#0/1
ab`aabaa^aaa^aa`aa^aa#`aa_`aU`_a_aWZa_^_
@HWI-EAS443:3:78:1726:1010#0/1
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+HWI-EAS443:3:78:1726:1010#0/1
^R]TI^bb`_]aZ__a`Raa^[Ua_V]FTK_____^XWNV
@HWI-EAS443:3:78:1754:1126#0/1
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+HWI-EAS443:3:78:1754:1126#0/1
^PVWN_` `^_[XOR^a]_a#`__^#_Y]]`_]RR#^]]
@HWI-EAS443:3:78:1765:1487#0/1
GCCAGTTAAAAACAATGCCAAGGAAATTGGAAACGGCTG
+HWI-EAS443:3:78:1765:1487#0/1
H]`#a_aa^_R_#a` `Va[aZaba_`bba_]_`^a_X[a^
@HWI-EAS443:3:78:186:1422#0/1
GGAGATTTTCATCGATTATGAGGAGCTAAGAGAGCAATTGA
+HWI-EAS443:3:78:186:1422#0/1
ZZ#`_abab_#b`Z`a#]Z_]_`a`^#^aa`_T`_]_]`
@HWI-EAS443:3:78:193:331#0/1
ACCCAAGGGTGCTATAAACACCAGCCTCCCATTTCAGAAT

+HWI-EAS443:3:78:193:331#0/1
a`aa`aaaV``__aX_]_]_Z[^X]]]]]]]YVSZ]
@HWI-EAS443:3:78:269:177#0/1
CTGTGTATTCATCTTTTCAATAACAGAATTTACTTTGTTA
+HWI-EAS443:3:78:269:177#0/1
aab_a_a`a_a[Y¥aa`__L````aa__`__[[``]-]]]
@HWI-EAS443:3:78:325:553#0/1
TGAATTTTACCACAAATGCGATAACACGTGCATGGAAAAGT
+HWI-EAS443:3:78:325:553#0/1
a`Yaaa`aaa]_aa`aaa`aa`a`aZ`__aa^`__W
@HWI-EAS443:3:78:331:188#0/1
CTTTGTTAGTAATCTCGTCAATGGCATTCTGTGTGCTCTT
+HWI-EAS443:3:78:331:188#0/1
aa`a`a`__X`_]`bV[Y^^_]_^]_^_W_W_^]X]X
@HWI-EAS443:3:78:335:1875#0/1
GCTGGTGTATATAGCACCCCTTGGGTGTCTGACAAGTTGTA
+HWI-EAS443:3:78:335:1875#0/1
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@HWI-EAS443:3:78:355:1615#0/1
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+HWI-EAS443:3:78:355:1615#0/1
VZ¥Z[S_bbaabb^[[`_V¥aa]`abZ]aa`YJ_UZ_[^a
@HWI-EAS443:3:78:415:192#0/1
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+HWI-EAS443:3:78:415:192#0/1
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@HWI-EAS443:3:78:425:279#0/1
GGGGACATCAAGATACAGCAAGAAGTTCAAGCCGAAATA
+HWI-EAS443:3:78:425:279#0/1
abaa`Xaa_aaa`a`aaaaa`_aX]^a__¥¥[``^^^_^
@HWI-EAS443:3:78:438:188#0/1
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+HWI-EAS443:3:78:438:188#0/1
a`aaa```^`__[[__]]]]]]^^[[]^]^]^`^]Z^][Y]
@HWI-EAS443:3:78:463:399#0/1
TTTGTAGTAATCTCGTCAATGGCATTCTGTGTGCTCTTC
+HWI-EAS443:3:78:463:399#0/1
ab`_``[`abaaT]aa_aa`a`a`a¥¥]ULT`^[_]
@HWI-EAS443:3:78:488:1995#0/1
AAACCTTTCAAATGATGACTGAGCTCAATTGCTCTCTT
+HWI-EAS443:3:78:488:1995#0/1
aa__`__S_aaaaP`ZY^a_[^Z[¥¥X__UZ`^¥]^_Y
@HWI-EAS443:3:78:50:688#0/1
CGGCTTGAACCTTCTGCTGTATCTTGATGTCCCCACAAAA
+HWI-EAS443:3:78:50:688#0/1
aaZZZ]UMP¥LVZ¥¥SYV]QNWVZZMOPXRZX[XPZYU
@HWI-EAS443:3:78:571:1256#0/1
CTTTGTTAGTAATCTCGTCAATGGCATTCTGTGTGCTCTT
+HWI-EAS443:3:78:571:1256#0/1
aba_¥Na¥WPZ¥aa`a`FW¥^Y^`Y]a`_`[_]_[a_^_^^

@HWI-EAS443:3:78:591:631#0/1
GGGACATCAAGATACAGCAAGAAGTTCAAGCCGGAAATAG
+HWI-EAS443:3:78:591:631#0/1
`¥_a¥aaa__`_^]`aaa^a`^a]Y`a`^]`a_Y]_``
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TTGTGCTTTTTACATATTTTGGACATTTTCCAATTGTGAT
+HWI-EAS443:3:78:615:1506#0/1
aaa__abaaaaba`aaaaaa_`_`a`aaaa^a^aY____
@HWI-EAS443:3:78:615:1693#0/1
CAGGTCGGCTGCATATCCTGACCCCTGCTCATTTTGATGG
+HWI-EAS443:3:78:615:1693#0/1
ab`a^ba^aa_aa`baaba^ab_`^a_a`aaa¥¥`_a^__
@HWI-EAS443:3:78:631:1885#0/1
GTTATTTTGTCTCCCGGCTCTACTAGTGTCCAGTAATAGT
+HWI-EAS443:3:78:631:1885#0/1
^V_a`a_aPb`a¥a____`_[^QPXVLXWTWZ^N[¥LZ_0
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CTGGTATTATCATTTTCAGATACACCAGTCCACGATTGCAA
+HWI-EAS443:3:78:63:472#0/1
__bXbbaa`bbaaa_aa`b_aaaa`]`_a`aY^_a_b_
@HWI-EAS443:3:78:667:1184#0/1
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+HWI-EAS443:3:78:667:1184#0/1
ab_S`baba`W_`^a]aaaa```aa]a]_`aaaa`]^
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+HWI-EAS443:3:78:751:647#0/1
aaaaWa`a`aa`[a````aaaaa`__a^]`_aa`a`^`^
@HWI-EAS443:3:78:786:186#0/1
CTGGCTTCTTACCTTTTTCATATAAGTTCTTCCACATTTGAA
+HWI-EAS443:3:78:786:186#0/1
_Za_0¥bbV^baT0_a_0__R¥`_]IILP¥a^TSV¥T]WI
@HWI-EAS443:3:78:795:1984#0/1
ATTTCTTCTCTGTTAATTTTGCTTCTCTGAGTATTTTG
+HWI-EAS443:3:78:795:1984#0/1
^[baba`aaa[aYaaba^]a^S^]aY`]^[aa____`^[W[
@HWI-EAS443:3:78:832:1522#0/1
TTTTGCTTCTCTGAGTATTTTGGGTAGTCATAAGTCCCA
+HWI-EAS443:3:78:832:1522#0/1
__]X^]_^[¥Y^a`aXJX`^]TOY_]_[VPZUXWZT^[TT
@HWI-EAS443:3:78:850:1193#0/1
CGGCTCTACTAGTGTCCAGTAATAGTTCATTCTCCCTTCT
+HWI-EAS443:3:78:850:1193#0/1
aa_aaaX^Z]QQHP^¥`VSQS_]RZVZQTZYU[RR`_]UX
@HWI-EAS443:3:78:855:755#0/1
GGGACATCAAGATACAGCAAGAAGTTCAAGCCGGAAATA
+HWI-EAS443:3:78:855:755#0/1
aabaaaaaaaaaaaaaaba`abbaaa_aaa``a[a`^^`a`
@HWI-EAS443:3:78:862:1290#0/1
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+HWI-EAS443:3:78:862:1290#0/1
^ab` [¥baaaaa`]aa]a`aaaa]aa^¥`aaa`__^Za_
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+HWI-EAS443:3:78:867:408#0/1
a]bbaaaaa_a_aa_aaU]]_`]a_¥¥a``a``a^`^`_`_
@HWI-EAS443:3:78:884:216#0/1
ATCTCGGTACCACTAGATTTCCAGTTGCTTCAATGTTAT
+HWI-EAS443:3:78:884:216#0/1
aa^`W_^¥aZWZaaaa```a¥^^`____Y__W_^`^`U[[^
@HWI-EAS443:3:78:904:1706#0/1
TCGAATGTTATTTGTCTCCCGCTCTACTAGTGTCCAGT
+HWI-EAS443:3:78:904:1706#0/1
abaaaaa_abaaaa`aa`b`a]`_[G¥X____Y_X¥_`^¥X
@HWI-EAS443:3:78:909:520#0/1
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+HWI-EAS443:3:78:909:520#0/1
``bbabbbbabbaaaabbaab_aababbaaaaaa_aa
@HWI-EAS443:3:78:923:57#0/1
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+HWI-EAS443:3:78:923:57#0/1
a`a_abWabaUa¥__`a]_T[¥`^¥aaa`^`TLX¥_`^WZ`
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+HWI-EAS443:3:79:1021:1025#0/1
abbbbaaabb````Uaa``¥_^_Y]_aaY_Z`a^``^¥^^
@HWI-EAS443:3:79:1032:793#0/1
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+HWI-EAS443:3:79:1032:793#0/1
ab_¥_ba_Yabba]¥a``^`a`aa^WTR_^_]ZX_VR[V]
@HWI-EAS443:3:79:1032:799#0/1
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+HWI-EAS443:3:79:1032:799#0/1
aV_VZX^[bMT^XX_a¥P`PPYaa¥PGTQSQ^a`V`R]W
@HWI-EAS443:3:79:1089:489#0/1
TGCTCTTCAGGTCCGCTGCATATCCTGACCCCTGCTCATT
+HWI-EAS443:3:79:1089:489#0/1
aaab^_a`_`a`_^`aaa`_`ab_]¥`__^[]_a^^^YP``
@HWI-EAS443:3:79:1110:465#0/1
GAAAGAAGTCCTCGTGCTATGGGGCATTACCATCCATCT
+HWI-EAS443:3:79:1110:465#0/1
¥¥_^]b]b¥^a^`baaabaab`]``a`aab]R_¥^¥`aPa
@HWI-EAS443:3:79:1116:59#0/1
CAGACAATGGAACGTGTTACCCAGGAGATTTTCATCGATTA
+HWI-EAS443:3:79:1116:59#0/1
`abb`bbababb_bbb^]bTa`a_¥Yb_a_^_baY_Xaa`
@HWI-EAS443:3:79:1122:1837#0/1
GGTTTCTGACATTTGGACTTACAATGCCGAACGTGTTGG
+HWI-EAS443:3:79:1122:1837#0/1
¥Z`bbba```abY``b^V¥b`b]bbb`_``_Sbab`]Zaa

@HWI-EAS443:3:79:1143:111#0/1
CATTCTGTGTGCTCTTCAGGTCGGCTGCATATCCTGACCC
+HWI-EAS443:3:79:1143:111#0/1
``bbaabbbaaa`bbbabbbabababb`^bbbaYYaa[^a
@HWI-EAS443:3:79:1217:559#0/1
CTTGATGTCCCCACAAAACATATGCATCTGCATTCTGAT
+HWI-EAS443:3:79:1217:559#0/1
H]X`b`¥S[aabbbb`bZbbabb_Kabab`a__¥abbb
@HWI-EAS443:3:79:1225:396#0/1
GGGACATCAAGATACAGCAAGAAGTTCAAGCCGAAATAG
+HWI-EAS443:3:79:1225:396#0/1
abaaaabaaaa`aaYab`aaa^Xa[aaa_aVZ`a_^__aa
@HWI-EAS443:3:79:1273:1244#0/1
CTCCTCATAATCGATGAAATCTCCTGGGTAACACGTTCCA
+HWI-EAS443:3:79:1273:1244#0/1
SVW¥`b`¥__Z`aa¥ZGYaYa`a`__¥X_WR_[`ZZQP]
@HWI-EAS443:3:79:1296:651#0/1
CTTTGGGTCTTATTGCTATTTCCGGCTTGAACCTCTTGCT
+HWI-EAS443:3:79:1296:651#0/1
aaaabb]Vabaaaab[abbbba_`aaa`Sa_Xa`¥aaUZa
@HWI-EAS443:3:79:1319:1648#0/1
ATTTTGGGTAGTCATAAGTCCCATTTTTGACACTTTCCAT
+HWI-EAS443:3:79:1319:1648#0/1
ab_____¥Naba`baabaM]a`ababbaaaaa`¥_Sa]
@HWI-EAS443:3:79:1339:961#0/1
TGCTCATTTTGATGGTGATAACCGTACCATCCATCTACCA
+HWI-EAS443:3:79:1339:961#0/1
abb_[Z`¥`WYZT__¥_aaaaXQ^U_YLYaXN_^XNRSY_
@HWI-EAS443:3:79:1351:27#0/1
CGATTGCAATACAACCTTGTCAGACACCCAAGGGTGCTATA
+HWI-EAS443:3:79:1351:27#0/1
`bbbabbabbbbbb^bb`aa`baab^`abbbb_bSa]aa
@HWI-EAS443:3:79:1382:364#0/1
GGACATTTGGACTTACAATGCCGAAGTGTGGTTCTATTG
+HWI-EAS443:3:79:1382:364#0/1
Taabb_bbaa[V`ba`baa`aWa[aPabba^Z_aYa_abb
@HWI-EAS443:3:79:1382:570#0/1
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+HWI-EAS443:3:79:1382:570#0/1
abb_``ab`a^_b¥_aa_a^abaaaa^Ua`a_`S`_``
@HWI-EAS443:3:79:1434:623#0/1
GCTGGCTGGATCCTGGGAAATCCAGAGTGTGAATCACTCT
+HWI-EAS443:3:79:1434:623#0/1
abbbabbbbbb`_`b^abbbabaaaa_`]_a`b`¥K[]a
@HWI-EAS443:3:79:147:151#0/1
CCGGTTTCATTGAAGGGGGTGGACAGGGATGGTAGATGG
+HWI-EAS443:3:79:147:151#0/1
ab]bXbb`Vabb]]a^Z¥__F]a_TT__^J[[[G_YVGR`
@HWI-EAS443:3:79:1483:1183#0/1
ATCAGAATGCAGATGCATATGTTTTTGTGGGGACATCAAG

+HWI-EAS443:3:79:1483:1183#0/1
]bb`^bbaabb_bababb`b¥`bbbbbabb`a`b`a`b
@HWI-EAS443:3:79:1514:641#0/1
CATACCCAAAGCTCAGCAAATCCTACATTAATGATAAAGG
+HWI-EAS443:3:79:1514:641#0/1
aabbbbbbbbaabbaababaa`bbbbbbbabbbabaa_bb
@HWI-EAS443:3:79:1520:529#0/1
GCTTGAACCTTCTGCTGTATCTTGATGTCCCCACAAAAAC
+HWI-EAS443:3:79:1520:529#0/1
aabbbab_bbabab^bbaababbaaaaa`[Z¥a]a_`a`
@HWI-EAS443:3:79:1520:798#0/1
CTTCTAGAAGACAAGCATAACGGGAACTATGCAAATAA
+HWI-EAS443:3:79:1520:798#0/1
abbbbbbbbaababbbb`ababbbababba_bbabab
@HWI-EAS443:3:79:1537:602#0/1
GGACATCAAGATACAGCAAGAAGTTCAAGCCGAAATAGC
+HWI-EAS443:3:79:1537:602#0/1
aba_aaaabbaaa`ab_bbaaab_a`aaaZ]aa]a^a_a]
@HWI-EAS443:3:79:1550:1175#0/1
CATGAACCTGTCTTGGGGAATATCTCAAACCTTTCAAATG
+HWI-EAS443:3:79:1550:1175#0/1
]a`aT`bbbbbbbbbb`bbbbaa`a__^[ababbbabb
@HWI-EAS443:3:79:1556:499#0/1
GAGCACATCCAGAACTGATTGCCCCAGGGAGACTACCA
+HWI-EAS443:3:79:1556:499#0/1
RT_RU`Z_^`¥¥`_T]__Z]_RW[D^Z^^U¥b`[ORKX¥
@HWI-EAS443:3:79:1647:976#0/1
ATTCATCTTTTCAATAACAGAATTTACTTTGTTAGTAATC
+HWI-EAS443:3:79:1647:976#0/1
ab`_a^aa`b^TZb`b_a`aaababa`abba`b`b`a_ba
@HWI-EAS443:3:79:1666:1738#0/1
CTAGATTTCCAGTTGCTTGAATGTTATTTTGTCTCCCGG
+HWI-EAS443:3:79:1666:1738#0/1
abb^]bbbababa`a`aaaaababb`bbba_a`a^`a`a
@HWI-EAS443:3:79:1706:1240#0/1
AAACAATGCCAAGGAAATTGGAAACGGCTGCTTTGAATTT
+HWI-EAS443:3:79:1706:1240#0/1
`baaa`a_b`])^`aabaaaa`^aa`b]DMa]YP^_aa
@HWI-EAS443:3:79:1723:366#0/1
GTTGCTTCGAATGTTATTTTGTCTCCCGGCTCTACTAGTG
+HWI-EAS443:3:79:1723:366#0/1
_[aaaab`b¥`aaaa`aaa]__X[NH[Z]XUF^MVYVQQJ
@HWI-EAS443:3:79:17:1408#0/1
CCTCTGAGTATTTGGGTAGTCATAAGTCCCATTTTGGAC
+HWI-EAS443:3:79:17:1408#0/1
ab`aaa`W[aa`^aa]W^YN`_[XGWHZ^_Y¥^`_VR_
@HWI-EAS443:3:79:186:506#0/1
GGGGTGGACAGGGATGGTAGATGGATGGTACGGTTATCAC
+HWI-EAS443:3:79:186:506#0/1
abaaUb^aaa`_a]_a_W`_¥¥_¥¥_]V`¥_]V__ZR[¥

@HWI-EAS443:3:79:191:1872#0/1
CAATTGGAAAATGTCCAAAATATGTAAAAAGCACAAAATT
+HWI-EAS443:3:79:191:1872#0/1
aaY`a`¥[`a`aZZbb_X^a`aaa_aaaa```aaaa]]__
@HWI-EAS443:3:79:218:714#0/1
GCCGGTTTCATTGAAGGGGGTGGACAGGGATGGTAGATG
+HWI-EAS443:3:79:218:714#0/1
`^`__Taa`baZFNyZ¥^a`^]]_YTY[ZU]^WN_]VQ[
@HWI-EAS443:3:79:21:1014#0/1
CTCACTTTGGGTCTTATTGCTATTTCCGGCTTGAACCTCT
+HWI-EAS443:3:79:21:1014#0/1
^T`R_[ba¥ZZ`b]a^^]]^aa`¥_Y_]a``ZRW¥X¥]¥
@HWI-EAS443:3:79:234:588#0/1
GGGGACATCAAGATACAGCAAGAAGTTCAAGCCGAAAATA
+HWI-EAS443:3:79:234:588#0/1
aaaa_a`aa]aaa^aaaaaa^^`_Y_aa`___a_aa^Z]
@HWI-EAS443:3:79:251:1352#0/1
ATCTCGGTACCACTAGATTTCCAGTTGCTTCAATGTTAT
+HWI-EAS443:3:79:251:1352#0/1
aaa_a[`Yaaaa__a]^`_aa`_Z_]a___ZZ^^_Y]_^
@HWI-EAS443:3:79:388:1188#0/1
CACATCCAGAACTGATTGCCCCAGGGAGACTACCAGTA
+HWI-EAS443:3:79:388:1188#0/1
`XZ`S]UWXZVU]]U`Y]_`¥`Z[]V`YR¥]W_YVLXWUZ
@HWI-EAS443:3:79:484:214#0/1
ATTTTGTCTCCCGCTCTACTAGTGTCCAGTAATAGTTCA
+HWI-EAS443:3:79:484:214#0/1
ababaa_aaa_aaa``^ZU]_^R][[]_ZZ¥_]VT]Y]
@HWI-EAS443:3:79:527:670#0/1
GTCCTCGTGTATGGGGCATTACCATCCATCTACTAGTG
+HWI-EAS443:3:79:527:670#0/1
a¥_aYaa_aa^___`Z`a``a_a_aa_]¥_`¥aa_] [TZ
@HWI-EAS443:3:79:528:890#0/1
AGAGCACATCCAGAACTGATTGCCCCAGGGAGACTACC
+HWI-EAS443:3:79:528:890#0/1
aaa¥a_a]aba`a`_aaaaaaa`aaa`X`__^^`_`^`a^
@HWI-EAS443:3:79:538:643#0/1
ATTAAATTTTTGTAGAAGCTTTTTGCTCCAGCATGAGGAC
+HWI-EAS443:3:79:538:643#0/1
Y_ZZ`]S^SVY^¥¥bZUUaOQ]S_S]Z¥a_]_[X`OQWNY
@HWI-EAS443:3:79:551:958#0/1
TGCGATAACACGTGCATGGAAAGTGTCAAAAATGGGACTT
+HWI-EAS443:3:79:551:958#0/1
ab`b`bbba``abb``baaba[b`bbbaYaaaaaaaa
@HWI-EAS443:3:79:558:793#0/1
AAGCCAGTTAAAAACAATGCCAAGGAAATTGGAAACGGC
+HWI-EAS443:3:79:558:793#0/1
aaabb¥`a^a`aaaaY_aaa^`_____a^`_____]_¥¥
@HWI-EAS443:3:79:572:676#0/1
GAATGCAGATGCATATGTTTTTGTGGGGACATCAAGATAC

+HWI-EAS443:3:79:572:676#0/1
aY`_]^^¥X¥aU]a_``[_^^`aX`X¥^_Z^^^Z¥a`^V_
@HWI-EAS443:3:79:589:1001#0/1
ATGAAATCTCCTGGGTAACACGTTCCATTGTCTGAACTAG
+HWI-EAS443:3:79:589:1001#0/1
aa`bab`aaaa]baTS¥aa`a`^`^`a____[`a^[_^_^W
@HWI-EAS443:3:79:593:93#0/1
ATCCTGACCCCTGCTCATTTTTGATGGTGATAACCGTACCA
+HWI-EAS443:3:79:593:93#0/1
a`UWU^V_VVV^YY_[YVW^T[TLLWWXPS_XLN]BBBBB
@HWI-EAS443:3:79:597:1888#0/1
CTAGTTAAAAAAGGAAATTCATACCCAAAGCTCAGCAAAT
+HWI-EAS443:3:79:597:1888#0/1
`W_¥S`a_]_SZ]N¥][¥RU`X^^^`_`¥TMZ^XXYTTUU
@HWI-EAS443:3:79:636:1589#0/1
CCTGACCCCTGCTCATTTTTGATGGTGATAACCGTACCATC
+HWI-EAS443:3:79:636:1589#0/1
aba^bbbababbbabbaaba¥¥¥bbaabaa`_aaaaaa
@HWI-EAS443:3:79:637:916#0/1
ATCCTGACCCCTGCTCATTTTTGATGGTGATAACCGTACCA
+HWI-EAS443:3:79:637:916#0/1
`V]a`__¥Y¥[X^`[_`[^¥¥^^^_[Y_Z[^¥^U^WZ]T^
@HWI-EAS443:3:79:652:15#0/1
ACTTCTTGCTGTATCTTGATGTCCCCACAAAAACATATGC
+HWI-EAS443:3:79:652:15#0/1
]Y^```ba`]`WT^TP]XW0_^`a`]`P[]aa^Y^a`[YS
@HWI-EAS443:3:79:668:1267#0/1
GCTGGCTGGATCCTGGGAAATCCAGAGTGTGAATCACTCT
+HWI-EAS443:3:79:668:1267#0/1
aaaa`aaaa`_`a_`aYL¥a_`a`_`¥V_PS]¥U`¥XW[¥
@HWI-EAS443:3:79:711:1950#0/1
TTCCGGCTTGAACCTTCTTGCTGTATCTTGATGTCCCCACA
+HWI-EAS443:3:79:711:1950#0/1
`U¥a`¥baXHW_XU]^¥¥U¥Y[N``Y`]ZaZ[PV_`V¥`X
@HWI-EAS443:3:79:722:1001#0/1
GTGGGGACATCAAGATACAGCAAGAAGTTCAAGCCGAAAA
+HWI-EAS443:3:79:722:1001#0/1
]Ya]`WS_a`ZaY`^^^aa]`ab^_Z`SZZa]]^¥a^U]`
@HWI-EAS443:3:79:799:786#0/1
GGAAAATGAAAGAACCTTGGACTACCACGATTCAAATGTG
+HWI-EAS443:3:79:799:786#0/1
ab_ababbab¥_aa_bbaa^aaa`a``abaaaa^Y^aa_a
@HWI-EAS443:3:79:810:832#0/1
CCGGCTTGAACCTTCTTGCTGTATCTTGATGTCCCCACAAA
+HWI-EAS443:3:79:810:832#0/1
aa`aaaaaaaaaba`aa`aaa_aa`aa_`a]aa`a`a`aa
@HWI-EAS443:3:79:820:62#0/1
GGGACATCAAGATACAGCAAGAAGTTCAAGCCGAAATAG
+HWI-EAS443:3:79:820:62#0/1
¥`_`ZW__`^_a`^]_aZO¥b`ab_VZ]V`VV`a^V]a¥`

@HWI-EAS443:3:79:86:293#0/1
GGTGTTTATAGCACCTTGGGTGTCTGACAAGTTGTATTG
+HWI-EAS443:3:79:86:293#0/1
abJaUZ_bZH_b`Ub]¥¥a^b`a[[Ua_V_Y[Q`a]¥
@HWI-EAS443:3:79:86:431#0/1
AAGCCAGTTAAAAACAATGCCAAGGAAATTGGAAACGGC
+HWI-EAS443:3:79:86:431#0/1
ObbbaZ^T]aa`abaa`a[aaTa`a^X¥__^`Z]aYS]
@HWI-EAS443:3:79:896:435#0/1
CGTCAATGGCATTCTGTGTGCTCTTCAGGTCGGCTGCATA
+HWI-EAS443:3:79:896:435#0/1
`babbbababa`]`bb`a_bababaaba_Y_aa_a¥W`ab
@HWI-EAS443:3:79:908:487#0/1
AAAAACAATGCCAAGGAAATTGGAAACGGCTGCTTTGAA
+HWI-EAS443:3:79:908:487#0/1
a[aa`_aaa_a__a_a_[¥^a[a^`__aa___aQOPMSKX
@HWI-EAS443:3:79:939:179#0/1
CCTCTGAGTATTTTGGGTAGTCATAAGTCCCATTTTGGAC
+HWI-EAS443:3:79:939:179#0/1
aaba`¥`a¥^a`aaaba^a[_Xa_]`^]]]_baa`aa¥_
@HWI-EAS443:3:79:940:128#0/1
GACCAACAAAGTCTCTATCAGAATGCAGATGCATATGTTT
+HWI-EAS443:3:79:940:128#0/1
aa`_aa_aaaa^_a^a`^aa``a^_a___Z__`^aX``
@HWI-EAS443:3:79:944:642#0/1
GTTTCAGACAATGGAACGTGTTACCCAGGAGATTTTCATCGA
+HWI-EAS443:3:79:944:642#0/1
a]_WSZWR]TT_G[VZ¥R¥TONXY]_WfV_¥X¥WVGX0^]
@HWI-EAS443:3:79:954:891#0/1
GCCGGTTTCATTGAAGGGGGGTGGACAGGGATGGTAGATG
+HWI-EAS443:3:79:954:891#0/1
ab_¥X^ab]__ba`ab`aa^Nab]^`aa^abTJY^a`^
@HWI-EAS443:3:79:955:1854#0/1
CATCCATCTACTAGTGTGACCAACAAAGTCTCTATCAGA
+HWI-EAS443:3:79:955:1854#0/1
abaabbbaabaaaa^a_Ya_aaaa_aaa_____a`XT_¥a
@HWI-EAS443:3:79:974:143#0/1
TAGATTTCCAGTTGCTTTCGAATGTTATTTTGTCTCCCGGC
+HWI-EAS443:3:79:974:143#0/1
a_b`ZVa_^YaW^^`b¥S¥]]]b^Yaaa`^Y]^XZ]]]T
@HWI-EAS443:3:79:977:1667#0/1
AGAAACTGATTGCCCCAGGGAGACTACCAGTACCAATGA
+HWI-EAS443:3:79:977:1667#0/1
aabaaaaa^a_a`a_aYaaa`^a``aa`aa`WaU__`_`_
@HWI-EAS443:3:79:977:449#0/1
TGGGGACATCAAGATACAGCAAGAAGTTCAAGCCGAAAT
+HWI-EAS443:3:79:977:449#0/1
abbaaaaaabaaabbababb_bbb`aaZ`abaa`^ba``aa
@HWI-EAS443:3:7:1044:479#0/1
ATCTCGGTACCACTAGATTTCCAGTTGCTTCCAATGTTAT

+HWI-EAS443:3:7:1044:479#0/1
`a`__a`Wa^__]a`aaa_`¥^]a`_a^a_0a^^^_]Z^_
@HWI-EAS443:3:7:1054:2045#0/1
ACAATGGAACGTGTTACCCAGGAGATTTTCATCGATTATGA
+HWI-EAS443:3:7:1054:2045#0/1
a]a¥^__¥`Xa]`U¥_]_]^^]]^ZXXX]]XXYZZZ]BB
@HWI-EAS443:3:7:1055:656#0/1
ATTTACTTTGTTAGTAATCTCGTCAATGGCATTCTGTGTG
+HWI-EAS443:3:7:1055:656#0/1
abb`_`babbaaaa`a_a`a_b`aa`aa`_aaa_aa_a]a
@HWI-EAS443:3:7:1099:538#0/1
GCTTCCTCTGAGTATTTTGGGTAGTCATAAGTCCCATTTT
+HWI-EAS443:3:7:1099:538#0/1
aabba^aabaaa^ab`aaa`a]a__^`a_`aZ^]X`_aaa
@HWI-EAS443:3:7:1114:1467#0/1
GATGACACTGAGCTCAATTGCTCTCTTAGCTCCTCATAAT
+HWI-EAS443:3:7:1114:1467#0/1
]Zbbbabbb¥abbbbabbbabab`baaa_`S^b_abaaa
@HWI-EAS443:3:7:1143:1155#0/1
GAGGAAGCAAATTAACAGAGAAGAAATAGATGGGGTAA
+HWI-EAS443:3:7:1143:1155#0/1
aY`Ra`aa]VZa_[]a[_a]bSZaSHNaUa]aaZX`]a_
@HWI-EAS443:3:7:1184:782#0/1
GGGGACATCAAGATACAGCAAGAAGTTCAAGCCGGAAATA
+HWI-EAS443:3:7:1184:782#0/1
aba`a^aa_aaaaa`_aa_aaa_^a]__a``[]`_^__`]
@HWI-EAS443:3:7:1190:66#0/1
ATGACACTGAGCTCAATTGCTCTCTTAGCTCCTCATAATC
+HWI-EAS443:3:7:1190:66#0/1
^abaaaabb¥aa¥`Y`a][¥_¥_Waa`a^_OS_Z^`_^_O
@HWI-EAS443:3:7:1208:1845#0/1
CTAGATTTCCAGTTGCTTCGAATGTTATTTTGTCTCCCGG
+HWI-EAS443:3:7:1208:1845#0/1
a_¥^YXaaa`^^[Z`]^S^a^Uaa[XR[a]YHJMYLPBBB
@HWI-EAS443:3:7:1220:1022#0/1
TGTGGGGACATCAAGATACAGCAAGAAGTTCAAGCCGGAA
+HWI-EAS443:3:7:1220:1022#0/1
]¥0Z`___YbbabVb^aa[bbababa_^Z`aa]`UXbaaa
@HWI-EAS443:3:7:1231:149#0/1
CAAATGTGAAGAACTTATATGAAAAGGTAAGAAGCCAGTT
+HWI-EAS443:3:7:1231:149#0/1
abbabbabbbbbbabbabbbbaaabbbabaaaa`¥abaa
@HWI-EAS443:3:7:1245:863#0/1
TTTGTAGTAATCTCGTCAATGGCATTCTGTGTGCTCTTC
+HWI-EAS443:3:7:1245:863#0/1
aaaa__aa^_a`Y``aUWZ¥]XDR[_]H[_¥[T¥Y]XWUV
@HWI-EAS443:3:7:1257:512#0/1
GGAACGTGTTACCCAGGAGATTTTCATCGATTATGAGGAGC
+HWI-EAS443:3:7:1257:512#0/1
a`aaaaUa_Z`a`_`aa`a][`_^_a¥a_``__a^_a^aW

@HWI-EAS443:3:7:1267:301#0/1
GGGGACATCAAGATACAGCAAGAAGTTCAAGCCGGAAATA
+HWI-EAS443:3:7:1267:301#0/1
abaa`_aa_a`aa_`ab`_aa__aZ^_a_`]Z`^]]^_`
@HWI-EAS443:3:7:1279:1354#0/1
GAATTTCTTTTTTAACTAGCCATATTAATTTTTGTAGA
+HWI-EAS443:3:7:1279:1354#0/1
]Wb]b]`W]b__bbaabba_ab_aabbb`abbbbaaaaba
@HWI-EAS443:3:7:1292:537#0/1
GTAGTCCAAAGTTCTTTTCATTTTCCAATAGAACCAACAGT
+HWI-EAS443:3:7:1292:537#0/1
a¥T`WQVMVXZP_¥SWaZNXU_`PNWPWO]XVVLTSY_BB
@HWI-EAS443:3:7:1310:1343#0/1
AAGGTAAGAAGCCAGTTAAAAACAATGCCAAGGAAATTG
+HWI-EAS443:3:7:1310:1343#0/1
aaaaVa`¥a`YYUZbYbbaab`_]b`aa¥_`_a_Y[[[Y`
@HWI-EAS443:3:7:1382:377#0/1
TCATCTTTTCAATAACAGAATTTACTTTGTTAGTAATCTC
+HWI-EAS443:3:7:1382:377#0/1
¥a_aa^Wb[YWaa`__bb_`aaa^__abb`aYUW_¥aY`^
@HWI-EAS443:3:7:1391:223#0/1
GGGACATCAAGATACAGCAAGAAGTTCAAGCCGGAAATAG
+HWI-EAS443:3:7:1391:223#0/1
aa`a`aa_`aa`a_S_a¥_aa_U`ZWY_]YT]]]Y_^]_
@HWI-EAS443:3:7:1409:757#0/1
TTCGAATGTTATTTTGTCTCCCGCTCTACTAGTGCCAG
+HWI-EAS443:3:7:1409:757#0/1
aa^a__ab`a_aa_____^a] [[]¥¥]]^XZ]RTYSZ]UZ^
@HWI-EAS443:3:7:1422:775#0/1
CAAATAACATTGAAGCAACTGGAAATCTAGTGGTACCG
+HWI-EAS443:3:7:1422:775#0/1
a¥`b¥^b_W`XbVbaVba]¥]aabaa`V`bb]¥RZa`Q`
@HWI-EAS443:3:7:1470:260#0/1
CAGATGCATATGTTTTGTGGGACATCAAGATACAGCAA
+HWI-EAS443:3:7:1470:260#0/1
¥Ra¥aYR]^^[`bbaaa]^ab^YabaaS^baX¥^`XVb
@HWI-EAS443:3:7:1471:104#0/1
CAATGTAGGACCATGAGCTTGCTGTGGAGAGTGATTCACA
+HWI-EAS443:3:7:1471:104#0/1
ab`bbbabababbbbbbbbbb`bbbb`abaa_b^aaa^Za
@HWI-EAS443:3:7:1489:787#0/1
GGAAAGAAGTCCTCGTGCTATGGGGCATTACCATCCATC
+HWI-EAS443:3:7:1489:787#0/1
a`_`aa`_a]__a_a¥_¥`¥_`_¥W¥`^¥¥¥T¥WQY¥¥U
@HWI-EAS443:3:7:1537:435#0/1
GGGAAAGAAGTCCTCGTGCTATGGGGCATTACCATCCAT
+HWI-EAS443:3:7:1537:435#0/1
abaaa`aa`aX__`[a_a¥__VPV_^S_`¥Q^WV¥WNU_V
@HWI-EAS443:3:7:1555:1065#0/1
ATTGCTATTTCCGGCTTGAACCTTCTTGCTGTATCTTGATG

+HWI-EAS443:3:7:1555:1065#0/1
`aaaabbabb_aaa_aa`_`Q`a_a`a¥aa_`aRa_¥X]`
@HWI-EAS443:3:7:1560:1280#0/1
ATCAAGATACAGCAAGAAGTTCAAGCCGAAATAGCAATA
+HWI-EAS443:3:7:1560:1280#0/1
^ZO]^aTS[aSJ_[ZL_]a]^Pb_OLMO`^__K][[_NLB
@HWI-EAS443:3:7:1565:1055#0/1
GCAGGGGTCAGGATATGCAGCCGACCTGAAGAGCACACAG
+HWI-EAS443:3:7:1565:1055#0/1
_a^W_aaP]_a[``_a`_]¥¥¥¥UU__SS^MXU¥W¥U^B
@HWI-EAS443:3:7:1600:1731#0/1
ATTTACTTTGTTAGTAATCTCGTCAATGGCATTCTGTGTG
+HWI-EAS443:3:7:1600:1731#0/1
a`^]aGa^ba^b`a¥`a^GaYaZ]_XZYFMVX0¥V`O_XZ
@HWI-EAS443:3:7:1606:1237#0/1
TGGTAGTCCAAAGTTCTTTTCATTTTCCAATAGAACCAACA
+HWI-EAS443:3:7:1606:1237#0/1
]a_Q^^X¥a_aW¥¥a`aaaZ¥a`aa^U`aa]a¥]FTY_X[
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GAAGAACTTATATGAAAAGGTAAGAAGCCAGTTAAAAAAC
+HWI-EAS443:3:7:161:1146#0/1
_aaa¥Z^`a_aaaaYG^`a^[a^aaa`_`aa`a___a_a_
@HWI-EAS443:3:7:1713:724#0/1
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+HWI-EAS443:3:7:1713:724#0/1
`_ZU[Z^XR]X^aWXXU^^^BBBBBBBBBBBBBBBBBB
@HWI-EAS443:3:7:207:1320#0/1
GCAGCCGACCTGAAGAGCACACAGAATGCCATTGACGAGA
+HWI-EAS443:3:7:207:1320#0/1
aab`^`^ZRYaa^^_¥T^`]]X`VU¥_X^_XURNO`Z_]YL
@HWI-EAS443:3:7:231:1166#0/1
CATCCATCTACTAGTGCTGACCAACAAAGTCTCTATCAGA
+HWI-EAS443:3:7:231:1166#0/1
abbabbbabbab`a_aabbabaabbbbbb¥ab`aaa`baa
@HWI-EAS443:3:7:246:638#0/1
AAAAACAATGCCAAGGAAATTGGAAACGGCTGCTTTGAA
+HWI-EAS443:3:7:246:638#0/1
a_bbbb_^`_`a_abab¥b_]aaa^`a__ba_aZDTP`QP]
@HWI-EAS443:3:7:272:942#0/1
ATTTACTTTGTTAGTAATCTCGTCAATGGCATTCTGTGTG
+HWI-EAS443:3:7:272:942#0/1
¥_b_aa¥_L¥[b]]`abaZW^a``¥]]`aaYXSYPSU¥[
@HWI-EAS443:3:7:278:1469#0/1
GGGAGACAAAATAACATTCGAAGCAACTGGAAATCTAGTG
+HWI-EAS443:3:7:278:1469#0/1
aaa`b_a__aaa]a_aaa_a``Z[_`X`_]`_`^``Z`
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CCCGGCTCTACTAGTGTCAGTAATAGTTCATTCTCCCTT
+HWI-EAS443:3:7:366:1879#0/1
^^[babba`b]bbaabT][a`T`bWba]]aaaa^a[__a[

@HWI-EAS443:3:7:393:837#0/1
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+HWI-EAS443:3:7:393:837#0/1
aY¥a`_¥^_aaaa_S`_____a^]]U^^RT]U_]`][][
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+HWI-EAS443:3:7:403:477#0/1
_bba`_X_aa^aZ`aaa`]¥aaa`¥Z]`[a][X[V]¥LS¥
@HWI-EAS443:3:7:404:24#0/1
GCTGGCTGGATCCTGGGAAATCCAGAGTGTGAATCACTCT
+HWI-EAS443:3:7:404:24#0/1
a__aaTV[¥GY¥YTNZ]¥_`[TQU`¥^T¥FV¥^PRTTBBB
@HWI-EAS443:3:7:442:158#0/1
CTGGTGTATAGCACCTTGGGTGTCTGACAAGTTGTAT
+HWI-EAS443:3:7:442:158#0/1
abb`[_^bbaba`¥aaYa`_aaXUa_[`a``¥^aX_a^__
@HWI-EAS443:3:7:483:121#0/1
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+HWI-EAS443:3:7:483:121#0/1
a_a`_a`a`baa`bIaaa[b_`aa`]¥a_Z_Ua_YaR`aK
@HWI-EAS443:3:7:52:373#0/1
AGAAATGCTGGATCTGGTATTATCATTTTCAGATACACCAG
+HWI-EAS443:3:7:52:373#0/1
a^¥_V^K_^[Q^[U_a[LW_W[¥][¥¥¥¥¥UY_[^`R^B
@HWI-EAS443:3:7:569:144#0/1
AAAAAAGTTGATGATGTTTCTGGACATTTGGACTTACA
+HWI-EAS443:3:7:569:144#0/1
YV`I^¥Y^¥Za`[SaYHP]SW__aT[P]]]_aYJWZ¥NZ
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GCTGCTTTGAATTTTACCACAAATGCGATAACACGTGCAT
+HWI-EAS443:3:7:572:1454#0/1
`_^Xa]`ba`aa`][a_aaaa_a_`]]`W_a^a^`]a¥_a^
@HWI-EAS443:3:7:727:1159#0/1
AACAAAGTCTCTATCAGAATGCAGATGCATATGTTTTTGT
+HWI-EAS443:3:7:727:1159#0/1
aaaaaab^aaa`a`_aaa_aa`_a^_a^`ab]`_`_`]
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+HWI-EAS443:3:7:802:1896#0/1
ab^ba`_b___bb___`S^aa^Wa_abS_b^aa`aba¥a`
@HWI-EAS443:3:7:869:390#0/1
CCGGGAGACAAAATAACATTGAAGCAACTGGAAATCTAG
+HWI-EAS443:3:7:869:390#0/1
^¥[ZaV^TZ]OMWLW][`WJZa_TRNUVYVY^O]QVVBBB
@HWI-EAS443:3:7:882:333#0/1
CTCGTCAATGGCATTCTGTGTGCTCTTCAGGTCGGCTGCA
+HWI-EAS443:3:7:882:333#0/1
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TGGCATTCTGTGTGCTCTTCAGGTCGGCTGCATATCCTGA

+HWI-EAS443:3:7:903:1067#0/1
a^a`_Z_aa_a_XaaZ¥a`aa_X_]a^_U_]a]PMU¥¥
@HWI-EAS443:3:7:903:175#0/1
TGCTCTTCAGGTCGGCTGCATATCCTGACCCCTGCTCATT
+HWI-EAS443:3:7:903:175#0/1
ababababbaaGaaa_bb^aaa`SYP]_VX[G]ZV¥¥¥^B
@HWI-EAS443:3:7:910:113#0/1
AGAAGTTCAAGCCGAAATAGCAATAAGACCCAAAGTGAG
+HWI-EAS443:3:7:910:113#0/1
ab_^a0`_aX__Z`X[]ZZ^XXZ^]XX^ZVWZXWBBBB
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+HWI-EAS443:3:7:932:551#0/1
aa__a_a`a[a]a__^___[`_`_]`^a^`[aa_^__Y_
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+HWI-EAS443:3:7:949:1332#0/1
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+HWI-EAS443:3:7:992:585#0/1
a__a_]`^aaa__`a`a`aa^^_¥a^`a^`a^a_YaV^_
@HWI-EAS443:3:80:1060:1912#0/1
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+HWI-EAS443:3:80:1060:1912#0/1
^b`¥FW^RURVW[_I¥[S¥QP¥YY[]OTRZWRSa_VP^_X
@HWI-EAS443:3:80:1069:649#0/1
CATGAGCTTGCTGTGGAGAGTGATTCACACTCTGGATTTC
+HWI-EAS443:3:80:1069:649#0/1
aZZTU```[____[W¥Z[N]T`aa`Z_aXaX]H^Y]¥N¥OF
@HWI-EAS443:3:80:1100:85#0/1
AGGAAATTGGAAACGGCTGCTTTGAATTTTACCACAAATG
+HWI-EAS443:3:80:1100:85#0/1
_bb`[`bbbb_b^_b¥`aH_]¥SX_OUYVPKRVSa`a_F
@HWI-EAS443:3:80:1105:1038#0/1
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+HWI-EAS443:3:80:1105:1038#0/1
^^aa`baabbba_abbba_b`baaaaaaa`aa`aaa
@HWI-EAS443:3:80:1169:1473#0/1
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+HWI-EAS443:3:80:1169:1473#0/1
aa[a`aa]_`baaa_a_aaa_a__`a`a_a`Saa`aZa
@HWI-EAS443:3:80:1169:972#0/1
CTTCTCTGAGTATTTTGGGTAGTCATAAGTCCCATTTTT
+HWI-EAS443:3:80:1169:972#0/1
abb]abbb```bbb`a^aaa`bbaabb_bYaav`baaaa
@HWI-EAS443:3:80:1217:1018#0/1
GGGGCATTACCATCCATCTACTAGTGCTGACCAACAAAG
+HWI-EAS443:3:80:1217:1018#0/1
abbbabbbbbbabb_abbabbabaa`aaaa¥P_b`aa`a

@HWI-EAS443:3:80:1231:1078#0/1
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+HWI-EAS443:3:80:1231:1078#0/1
aaYaa^aaYa^aV]YYaVUa`R^]_`¥VW`VSW[]aa]Y
@HWI-EAS443:3:80:1241:1925#0/1
TTTCCAGTTGCTTCGAATGTTATTTTGTCTCCCGGCTCTA
+HWI-EAS443:3:80:1241:1925#0/1
`aaaaa`aa]aa[aaa_a]^a_a_Y___^_]_^Z^]^]
@HWI-EAS443:3:80:1263:1473#0/1
ATTCTGTGTGCTCTTCAGGTCGGCTGCATATCCTGACCCC
+HWI-EAS443:3:80:1263:1473#0/1
aa`][`Y]_a^Wbabaa¥`ZY]_[Y¥aVb`U]_Z¥F¥NN
@HWI-EAS443:3:80:1271:1760#0/1
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+HWI-EAS443:3:80:1271:1760#0/1
]LO^^][`SZ]X]`¥NUQV]H¥¥RZU[OVQ_U_QQUSY¥W
@HWI-EAS443:3:80:1290:188#0/1
GTTACCCAGGAGATTTTCATCGATTATGAGGAGCTAAGAGA
+HWI-EAS443:3:80:1290:188#0/1
a`aa`a_a_a`aaa_a`a¥``_`_]a^^_Y_^^^_]]
@HWI-EAS443:3:80:1293:216#0/1
TGCCGGTTTCATTGAAGGGGGTGGACAGGGATGGTAGAT
+HWI-EAS443:3:80:1293:216#0/1
`U]Y^^aba`XbZ_GJbbX`bb``Y_QI[``a`Q``UW
@HWI-EAS443:3:80:1306:1639#0/1
CACTAGATTTCCAGTTGCTTCGAATGTTATTTTGTCTCCC
+HWI-EAS443:3:80:1306:1639#0/1
a`¥U]ZQ[RM[aa_Q[YMOYQ_[WOXG¥`a`_¥ZZ[^[LR
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GGCATTACCATCCATCTACTAGTGCTGACCAACAAAGTC
+HWI-EAS443:3:80:1329:964#0/1
a_`abbabba`aa¥a`_a``aaaSa__`a`^`a_a[aaVS
@HWI-EAS443:3:80:1355:349#0/1
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+HWI-EAS443:3:80:1355:349#0/1
[YZ`aa`^`^^`baab`bX¥`]ba_aba^`a`a`]
@HWI-EAS443:3:80:1373:657#0/1
TTTTGCTTCTCTGAGTATTTTGGGTAGTCATAAGTCCCA
+HWI-EAS443:3:80:1373:657#0/1
Z^`^UX_`][][0^[`_P]aa`Z[ET`_ZY[``[Y¥VQGT
@HWI-EAS443:3:80:1403:1684#0/1
TGTGGGGACATCAAGATACAGCAAGAAGTTCAAGCCGGAA
+HWI-EAS443:3:80:1403:1684#0/1
ab^a¥b`a_¥b][`a_a`Yb`_`a__`XOZ_`_¥]_]`^
@HWI-EAS443:3:80:1410:298#0/1
GGCTAGTTAAAAAAGGAAATTCATACCCAAAGCTCAGCAA
+HWI-EAS443:3:80:1410:298#0/1
abbbabaabbaab_ba`a`aa_aaa[P_a`_aZ`W_a]`_
@HWI-EAS443:3:80:143:1566#0/1
GCATATCCTGACCCCTGCTCATTTTGGTGGTATAACCGT

+HWI-EAS443:3:80:143:1566#0/1
`bb`_P¥aa_Yaaaa__a`^a`_a]a[Y__[a__]U[[[
@HWI-EAS443:3:80:1487:88#0/1
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+HWI-EAS443:3:80:1487:88#0/1
]bbbabbbbbbabbbbbabbbbbbaY``_aaabaaa_a
@HWI-EAS443:3:80:151:1075#0/1
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+HWI-EAS443:3:80:151:1075#0/1
a[FV^ZXVUZ_[R^NZXV^Z[V[^ZZ_OFMXSVXKM[Z
@HWI-EAS443:3:80:1536:1507#0/1
GACAAGCATAACGGGAACTATGCAAATAAGAGGGGTAG
+HWI-EAS443:3:80:1536:1507#0/1
a[aa_]`Y_a`aa¥`_]V`[W]GVUTL¥_V__^G¥¥_]
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GATGGTTTCTGGACATTTGGACTTACAATGCCGAAGTGT
+HWI-EAS443:3:80:1648:597#0/1
VZbbb`_aZ¥^^VSR¥b_bb¥¥U_[_G_baaN[aa¥Ma[_
@HWI-EAS443:3:80:1674:463#0/1
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+HWI-EAS443:3:80:1674:463#0/1
abb¥baa]a`Xaa^aa`_Y__`TX_¥aa]a_a_]V^]Y
@HWI-EAS443:3:80:1719:1139#0/1
CTTGGGTGTCTGACAAGTTGTATTGCAATCGTGGACTGGT
+HWI-EAS443:3:80:1719:1139#0/1
`bbbbbabbbaaaa`bbbbbbb_abbbaabbaaab^Y`
@HWI-EAS443:3:80:1776:483#0/1
GATCGGATGTATATTCTGAAATGGGAGGCTGGTGTATA
+HWI-EAS443:3:80:1776:483#0/1
¥a`^Xb`¥_IZaPZ_]aa[]_`¥Z[LX¥S¥`]HZL_a¥SL
@HWI-EAS443:3:80:1782:1648#0/1
CCCATCTATTTCTTCTCTGTTAATTTTGCTTCCTCTGAG
+HWI-EAS443:3:80:1782:1648#0/1
_N_Q¥W¥[]^G[`^`]]`]¥YXT``aWX]WYPSX`[]P`
@HWI-EAS443:3:80:232:1253#0/1
CACTAGTAGATGGATGGTGAATGCCCATAGCACGAGGAC
+HWI-EAS443:3:80:232:1253#0/1
abb`a`abbabbaabb__bbb``]^aba^ba`aa`aaa
@HWI-EAS443:3:80:240:272#0/1
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+HWI-EAS443:3:80:240:272#0/1
a¥JOPUNWZ]V]Y¥RX¥VS¥LRTZTYZZYNXBBBBBBBBB
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+HWI-EAS443:3:80:241:430#0/1
aba]`abba`baaabaaaaaaa^aa`aa`aaaaa]`a^_
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CTAGATTTCCAGTTGCTTCGAATGTTATTTTGTCTCCCGG
+HWI-EAS443:3:80:252:740#0/1
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@HWI-EAS443:3:80:285:642#0/1
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+HWI-EAS443:3:80:285:642#0/1
a]W^`_a_a[a]___Z^¥^¥`_[^^X]]¥XXS]]]]X]Y
@HWI-EAS443:3:80:304:183#0/1
CCGGCTTGAACCTTCTTGCTGTATCTTGATGTCCCCACAAA
+HWI-EAS443:3:80:304:183#0/1
aST_V]T]^¥¥^0`W[XW]]ZZ^U^XTTZXQUVZXPYUW
@HWI-EAS443:3:80:307:1913#0/1
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+HWI-EAS443:3:80:307:1913#0/1
U¥aWbba_a_[`]__[SSWZ^Z^aa]OZWa^^[`¥[``^0
@HWI-EAS443:3:80:308:195#0/1
GAACTCTTTACCTACTGCTGTGAACGTGTATTTCATCTTT
+HWI-EAS443:3:80:308:195#0/1
aaa`aaaaaaa````a`a`a_a__^aa]`^_``^^`]]``_
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GTAGTCATAAGTCCCATTTTTGACACTTTCCATGCACGTG
+HWI-EAS443:3:80:319:252#0/1
aYU`__V_^``^`_¥`aaa`aa`^_[a`[``]`_Y^¥`Y`
@HWI-EAS443:3:80:330:1279#0/1
CTTGCTGTATCTTGATGTCCCCACAAAACATATGCATCT
+HWI-EAS443:3:80:330:1279#0/1
abbbbb``abbaab_a`aa`a``a`]aa^a_aa_^a_
@HWI-EAS443:3:80:347:881#0/1
GCTGGCTGGATCCTGGGAAATCCAGAGTGTGAATCACTCT
+HWI-EAS443:3:80:347:881#0/1
`b¥ab`H]^R`a`VYXXW[a^^`^XU^GaWYUXX]Q¥S^¥
@HWI-EAS443:3:80:355:1957#0/1
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+HWI-EAS443:3:80:355:1957#0/1
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@HWI-EAS443:3:80:35:1965#0/1
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+HWI-EAS443:3:80:35:1965#0/1
¥X[``SV_R]_U`^^J0[aa_NPPS^_]W`X`_^¥_UWZL
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+HWI-EAS443:3:80:378:767#0/1
a¥``b`abab¥b`bbbb__b¥aaaa^`aabaaaaa_ba
@HWI-EAS443:3:80:399:72#0/1
GTGGGGACATCAAGATACAGCAAGAAGTTCAAGCCGGAAA
+HWI-EAS443:3:80:399:72#0/1
a_aaa^_[_____a_]_Z_`^`_]`X[W^W_VY]^T^SW
@HWI-EAS443:3:80:416:425#0/1
CCCCATTGCATTTGGGTAAATGTAACATTGCTGGCTGGAT
+HWI-EAS443:3:80:416:425#0/1
abbbabbba[aaabab^bbabb`baabaaaa`a``_]V
@HWI-EAS443:3:80:430:1674#0/1
GGGACATCAAGATACAGCAAGAAGTTCAAGCCGGAAATAG

+HWI-EAS443:3:80:430:1674#0/1
aa_abbbaa_ababb`abb`ba`^`aba_a_a`````_`^
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CACATCCAGAACTGATTGCCCCAGGGAGACTACCAGTA
+HWI-EAS443:3:80:453:666#0/1
aaa_baaba`aaaaaa^b__a`a```_`aV_aa`_`a¥`
@HWI-EAS443:3:80:471:327#0/1
CTTTTCAATAACAGAATTTACTTTGTTAGTAATCTCGTCA
+HWI-EAS443:3:80:471:327#0/1
abbabbbbbbbaabbaabaaa`aab_aab`a`aaab`_`a
@HWI-EAS443:3:80:488:901#0/1
GGGACATCAAGATACAGCAAGAAGTTCAAGCCGAAATAG
+HWI-EAS443:3:80:488:901#0/1
aaaa`Yaabaaaa`abaaaaaa^`ab`a```a¥`____^
@HWI-EAS443:3:80:501:1325#0/1
CTGGTGTATAGCACCTTGGGTGTCTGACAAGTTGTAT
+HWI-EAS443:3:80:501:1325#0/1
aba]Za_aaaaa]aa`__`__`N_U`_`_`[^`¥X^^U_^
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+HWI-EAS443:3:80:567:525#0/1
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@HWI-EAS443:3:80:579:546#0/1
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+HWI-EAS443:3:80:579:546#0/1
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@HWI-EAS443:3:80:584:1253#0/1
GAAGTCCTCGTGCTATGGGGCATTACCATCCATCTACTA
+HWI-EAS443:3:80:584:1253#0/1
a_ZUO_XR¥_QZ^]^^XV]]`_]_RURX¥`[]YZV]Q¥PX]
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+HWI-EAS443:3:80:592:1733#0/1
]]H]^a__`[WaY__^[`_`a¥[TXT^__¥_U[_]^W_B
@HWI-EAS443:3:80:604:1735#0/1
CAGGATATGCAGCCGACCTGAAGAGCACACAGAATGCCAT
+HWI-EAS443:3:80:604:1735#0/1
aa]]aa]a`aa]ba`a_aaaaa^aaa_aaaa`a_a`_] [
@HWI-EAS443:3:80:650:1116#0/1
CAATGGCATTCTGTGTGCTCTTCAGGTCGGCTGCATATCC
+HWI-EAS443:3:80:650:1116#0/1
^WZJ[aab]_ab^]UZa[]ba]_ba`V]aab[a_]aa`aa
@HWI-EAS443:3:80:663:1104#0/1
AGCCAGTTAAAAACAATGCCAAGGAAATTGGAAACGGCT
+HWI-EAS443:3:80:663:1104#0/1
a¥a_aa_a]G^a_`a`_`^__`^`^^¥a`]¥]_^_W_S^^
@HWI-EAS443:3:80:667:1717#0/1
TAGATTTCCAGTTGCTTCGAATGTTATTTTGTCTCCCGGC
+HWI-EAS443:3:80:667:1717#0/1
aa`P_babaaa_aaaaaba`_aa^aaa]aa_]a__]_]_]

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+HWI-EAS443:3:80:66:136#0/1
¥ab_aaT__][a]`a^W`aa[^¥T¥a`^^`_]R_VUYSV_
@HWI-EAS443:3:80:677:1236#0/1
GGCCCAATCATGACTCGAACAAAGGTGTAACGGCAGCATG
+HWI-EAS443:3:80:677:1236#0/1
`abbbbaabbbbaababababababba¥a¥aa`aa_a`GTPK
@HWI-EAS443:3:80:755:567#0/1
GCTTTTTGCTCCAGCATGAGGACATGCTGCCGTTACACCT
+HWI-EAS443:3:80:755:567#0/1
_aaaa__baaaaaaabbaaa_a_aa_``a__U_YY__`_
@HWI-EAS443:3:80:764:649#0/1
ATTCCCAAGACAAGTTCATGGCCCAATCATGACTCGAAC
+HWI-EAS443:3:80:764:649#0/1
```a_aaaaaa^aV_^^^a]_____¥]``aa_^_``XZQ
@HWI-EAS443:3:80:849:1510#0/1
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+HWI-EAS443:3:80:849:1510#0/1
^_]ba__a_RW[]a_LUZ]U_b_bUa_bb`aaaa¥a^GX
@HWI-EAS443:3:80:857:1481#0/1
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+HWI-EAS443:3:80:857:1481#0/1
Z_b]b`^^^[_`__`aaaaa`^^_W[]`a`Y_a]``^X
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GGAGGCTGGTGTATAGCACCCCTTGGGTGTCTGACAAGT
+HWI-EAS443:3:80:866:52#0/1
aa_bb_aab¥b_aa__`a¥`__¥¥``__TaVW`_¥W¥¥¥U
@HWI-EAS443:3:80:870:131#0/1
GCTGGTGTATAGCACCCCTTGGGTGTCTGACAAGTTGTA
+HWI-EAS443:3:80:870:131#0/1
`Z^XXN`¥]`Za_a_T¥NWZ¥Q_^S_WUWUSWYGYNQVUH
@HWI-EAS443:3:80:879:318#0/1
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+HWI-EAS443:3:80:879:318#0/1
aa`a`^`a_aaaaa`^`a`^a____^]Z]^]Y]W]YQ^X^
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GAAATTCATACCCAAAGCTCAGCAAATCCTACATTAATGA
+HWI-EAS443:3:80:909:1040#0/1
`¥¥]ZZZ^aaaa`YO_`^a`a__a]W[^]^][^_^]_`_^
@HWI-EAS443:3:80:954:1302#0/1
AATTTACTTTGTTAGTAATCTCGTCAATGGCATTCTGTGT
+HWI-EAS443:3:80:954:1302#0/1
aa`]]`_`[]aZQWa¥aa^¥aaaZY¥a_^aW[a]``_¥_[]
@HWI-EAS443:3:80:962:89#0/1
GCTTCCTCTGAGTATTTTGGGTAGTCATAAGTCCCATTTT
+HWI-EAS443:3:80:962:89#0/1
a`aa__a_bb`a``aaaaaa]^a]^¥`_Y`^]X¥^____`
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+HWI-EAS443:3:81:1016:585#0/1
aa_bb`a_aa`_`bab]aa_]b`a_a]X`Xb_a_¥`[_`
@HWI-EAS443:3:81:1053:509#0/1
CAATTGCTCTTAGCTCCTCATAATCGATGAAATCTCCT
+HWI-EAS443:3:81:1053:509#0/1
abVQN`ba^STY]`b^ZPW_[`[^__`aYF¥UX_`_^^^_
@HWI-EAS443:3:81:1063:448#0/1
CTCGTGCTATGGGGCATTACCATCCATCTACTAGTGCTG
+HWI-EAS443:3:81:1063:448#0/1
HTbb^bTT^Tb```Zbb```aY^a`R[bbb_¥`aaaba_`
@HWI-EAS443:3:81:1087:367#0/1
TGGTAGATGGATGGTACGGTTATCACCATCAAAATGAGCA
+HWI-EAS443:3:81:1087:367#0/1
aaa)`a`a`^Wa_]_aa_Z_a^Z^]]][YR]__]_^Z^]
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+HWI-EAS443:3:81:1096:233#0/1
aXaaaa`WW^_aZQ¥U[`a_Y_[Y]_VFOYUSY^[]YY[S
@HWI-EAS443:3:81:1154:1153#0/1
GCTTCCTCTGAGTATTTTGGGTAGTCATAAGTCCCATTTT
+HWI-EAS443:3:81:1154:1153#0/1
a`ab^^`]aba```abbbbb`_ba`¥`a`]a`a^```baba
@HWI-EAS443:3:81:1156:96#0/1
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+HWI-EAS443:3:81:1156:96#0/1
[`baaabbbab_[b]ba^^[_aaaa`¥`]_]_^a_¥]_
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+HWI-EAS443:3:81:1186:1898#0/1
ab__^aa`aaa_a_a``_a_W[``_TU^`a^a_a_Z¥R¥_W
@HWI-EAS443:3:81:1265:1408#0/1
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+HWI-EAS443:3:81:1265:1408#0/1
`babb`[_¥a]a`^`a`baa`a`aa_aaaa_a_aa^^_
@HWI-EAS443:3:81:1283:139#0/1
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+HWI-EAS443:3:81:1283:139#0/1
`S]XYV]^`^YPSYSY[EVYVKQXYUVSYUQNTTSTMWUU
@HWI-EAS443:3:81:1305:829#0/1
GAAGTCCTCGTGCTATGGGGCATTACCATCCATCTACTA
+HWI-EAS443:3:81:1305:829#0/1
Z[[¥_a_[^]``_]`_]`¥a[OZ`_R¥a^aaS]]
@HWI-EAS443:3:81:1330:100#0/1
TAAGAAGCCAGTTAAAAACAATGCCAAGGAAATTGGAAA
+HWI-EAS443:3:81:1330:100#0/1
aa`a`aaa`_a_a`_aa`^Sa¥_a]H]Ya__[]`¥`]]][
@HWI-EAS443:3:81:1453:135#0/1
ATGACACTGAGCTCAATTGCTCTCTTAGCTCCTCATAATC
+HWI-EAS443:3:81:1453:135#0/1
I^`_S_`_Z¥[^]W]``b[``^Z_¥a`a`Y`L[a¥aaWY`V

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+HWI-EAS443:3:81:1498:1162#0/1
^`_^_SX]babb¥abbbT`¥[ababbaabb` `aab`0aI
@HWI-EAS443:3:81:1511:119#0/1
TTTTGCTTCCTCTGAGTATTTGGGTAGTCATAAGTCCCA
+HWI-EAS443:3:81:1511:119#0/1
ababaaab_]a^aba`]aa_aaa` `[_^¥_a`]aX_SW^
@HWI-EAS443:3:81:1534:1116#0/1
AGCAAATCCTACATTAATGATAAAGGGAAAGAAGTCCTCG
+HWI-EAS443:3:81:1534:1116#0/1
aaRb`ab_aaaa`_a_aaZ^`_aZ_a`_Z_a`_`¥_W__`
@HWI-EAS443:3:81:153:1788#0/1
CAGAAACTGATTGCCCCAGGGAGACTACCAAGTACCAATG
+HWI-EAS443:3:81:153:1788#0/1
`b¥ab]aaa`a[[^aa_a`_`_____[Z`a_N__¥__X
@HWI-EAS443:3:81:1543:963#0/1
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+HWI-EAS443:3:81:1543:963#0/1
`aa_Sb¥bab^bbW]abbabaaba]aba`aa`aa[a`aa
@HWI-EAS443:3:81:1567:1459#0/1
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+HWI-EAS443:3:81:1567:1459#0/1
_a`_H[a`Zb`b` `Pbaab¥R_aYaabb_a^b¥a¥_ab`
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+HWI-EAS443:3:81:1604:512#0/1
ab`bbbabbbb`baabb[bbabbaababbabbbb_ba
@HWI-EAS443:3:81:1606:509#0/1
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+HWI-EAS443:3:81:1606:509#0/1
_a`^KbbY`Y`bbb_bbb[abb`b^a¥_]_aa_IXYb^bb
@HWI-EAS443:3:81:215:1236#0/1
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+HWI-EAS443:3:81:215:1236#0/1
¥Z^b`aabb`a`ba_aa`__a¥[`aaa` `a` `__aZ_a^a
@HWI-EAS443:3:81:250:439#0/1
GAGAGCAATTGAGCTCAGTGTCATCATTGAAAGGTTTGA
+HWI-EAS443:3:81:250:439#0/1
aaZ]`bYb`baaaba`a`[a^aaa]S` `a`Y¥[`aU_]a`
@HWI-EAS443:3:81:262:1211#0/1
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+HWI-EAS443:3:81:262:1211#0/1
a`a_U_b_b`aabb_aaX`aaa_Za¥` `aaaabaV`G¥Za
@HWI-EAS443:3:81:263:1824#0/1
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+HWI-EAS443:3:81:263:1824#0/1
]]¥UYV[MX^aa]^_aaaaaaaZa]aZZ^]`XY^`VIY_
@HWI-EAS443:3:81:265:1063#0/1
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+HWI-EAS443:3:81:265:1063#0/1
abbb`^aaa_aaa__aaaaaNaa``_____^_a_V__^S`
@HWI-EAS443:3:81:357:836#0/1
AAAATATGTAAAAAGCACAAAATTGAGACTGGCCACAGGA
+HWI-EAS443:3:81:357:836#0/1
]P¥baS`[RZ_¥^`aa¥UZ]b_] [YV_Wa^YFGQQVH
@HWI-EAS443:3:81:365:982#0/1
CAGCAAGAAGTTCAAGCCGAAATAGCAATAAGACCCAAA
+HWI-EAS443:3:81:365:982#0/1
a]baab__Y^LX_a`_¥`baLX¥`[aaX`^^T`a_Z[HN
@HWI-EAS443:3:81:379:1705#0/1
CAGAAACTGATTGCCCCAGGGAGACTACCAGTACCAATG
+HWI-EAS443:3:81:379:1705#0/1
``[b```a`a`_aa`aaa`[XR¥^X¥__^¥ZYU_`SX^^Z
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+HWI-EAS443:3:81:438:949#0/1
`[^ZZaaY`^ZPS[¥`bWaqYPR^`aaa_a]RU```a
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CACAAAAACATATGCATCTGCATTCTGATAGAGACTTTGT
+HWI-EAS443:3:81:451:692#0/1
aaabaaZaaaaaaaaaaaaaaaa```aa``__a`a___a]
@HWI-EAS443:3:81:469:514#0/1
TTTTGCTTCTCTGAGTATTTTGGGTAGTCATAAGTCCCA
+HWI-EAS443:3:81:469:514#0/1
ab_U_`bb`XYbba]bP``_aa`W¥W_aaaaaaaa`__]
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TGCCGGTTTCATTGAAGGGGGTGGACAGGGATGGTAGAT
+HWI-EAS443:3:81:47:415#0/1
abbbbbbaab`babaaaabaaWaaQa]aa_KZ]`YY¥^]
@HWI-EAS443:3:81:480:632#0/1
TCACCATCCATCTACTAGTGCTGACCAACAAAGTCTCTAT
+HWI-EAS443:3:81:480:632#0/1
aaaaabaaaaa`baaaa_a``_a`aa`_aa_`W____a_
@HWI-EAS443:3:81:506:448#0/1
ATCAGAATGCAGATGCATATGTTTTTGTGGGACATCAAG
+HWI-EAS443:3:81:506:448#0/1
a`^a`^`_``a_NP^V`a__ba_aX^bXa`a__^`a`_]_a
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+HWI-EAS443:3:81:537:2011#0/1
]GV`^_a`ab_`a¥`YYM0[_a_XW_RPW^[``H¥PWG_Q
@HWI-EAS443:3:81:566:811#0/1
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+HWI-EAS443:3:81:566:811#0/1
a_TYaaa_a`¥_a¥^`Y^a_aMIYV_aaW^[ZTXTFU_^]
@HWI-EAS443:3:81:589:1505#0/1
GGCCATTGCCGTTTCATTGAAGGGGGTGGACAGGGATG
+HWI-EAS443:3:81:589:1505#0/1
aabb]X]]`aa`U_`a`]a_^^`^a^aUa[V^a_`__^_

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+HWI-EAS443:3:81:629:1859#0/1
`^baab¥¥]_^`aaZab¥T`aa[ZaT`_aYR`R`Wa][Y
@HWI-EAS443:3:81:643:331#0/1
GCTTCTTACCTTTTCATATAAGTTCTTCACATTTGAATCG
+HWI-EAS443:3:81:643:331#0/1
aa][Z_]R__`¥^ab[X`^_[XZ[^_¥_Y_]_]S_[Z_PS
@HWI-EAS443:3:81:656:663#0/1
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+HWI-EAS443:3:81:656:663#0/1
a`[_aabbaba^XXbaa`aaIaaaa_a``Raa^Q^_`Naa
@HWI-EAS443:3:81:658:1168#0/1
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+HWI-EAS443:3:81:658:1168#0/1
aa_aaaaa_a`a`_a`___aaa`_^`a``_]`^Y__^_^
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GCTGCCGTTACACCTTTGTTTCGAGTCATGATTGGGCCATG
+HWI-EAS443:3:81:668:1631#0/1
¥_]Q_TX_a^]RZ]_`XXZZTQZLZa^[Ta`]]`aa^SZU
@HWI-EAS443:3:81:690:425#0/1
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+HWI-EAS443:3:81:690:425#0/1
a^ba]aaa`aa`VL]a_Ta`[X`_a```]a]LZ`a^`Z^`
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+HWI-EAS443:3:81:701:454#0/1
aZ`aYJ[WZaYTW[W]aU``_¥`V_]][_`M]YZTUTSYQ
@HWI-EAS443:3:81:711:175#0/1
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+HWI-EAS443:3:81:711:175#0/1
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@HWI-EAS443:3:81:733:77#0/1
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+HWI-EAS443:3:81:733:77#0/1
a^ba`b_Yaa`aJaaa_^a^_aaZaa_a`R_¥aU`]R`W[
@HWI-EAS443:3:81:735:512#0/1
CAGGTCGGCTGCATATCCTGACCCCTGCTCATTTTGATGG
+HWI-EAS443:3:81:735:512#0/1
aaQIRWY_Z^ZVLOX`[PVWYIX^S¥XKY^U^__VJRSZ_
@HWI-EAS443:3:81:745:1053#0/1
GCCGTTACACCTTTGTTTCGAGTCATGATTGGGCCATGAAC
+HWI-EAS443:3:81:745:1053#0/1
aaa][aaabaaaaa`aaa`a]aaa````a]a_a`]]`_V_^
@HWI-EAS443:3:81:785:818#0/1
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+HWI-EAS443:3:81:798:1125#0/1
`aa_aa_aa_a_aa^^[`a`a_R]aaaa`¥X`_]a`Q
@HWI-EAS443:3:81:804:185#0/1
GTGGGGACATCAAGATACAGCAAGAAGTTCAAGCCGGAAA
+HWI-EAS443:3:81:804:185#0/1
aU]]W_VPZ]WXX]^Y^Z]¥]^_Z]^WXY]UYXX^XUXU
@HWI-EAS443:3:81:811:1006#0/1
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+HWI-EAS443:3:81:811:1006#0/1
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@HWI-EAS443:3:81:815:591#0/1
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+HWI-EAS443:3:81:815:591#0/1
a`a^_a_a_]_a^]aaa`_`^`^`Za`Wa`^`^`X^^[
@HWI-EAS443:3:81:817:1424#0/1
AGCCAGTTAAAAACAATGCCAAGGAAATGGAAACGGCT
+HWI-EAS443:3:81:817:1424#0/1
a^a_`^X^a`¥]Z^_a]]`__`_`^__X^^`_]_Z_]X
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CCCCGCTCTACTAGTGTCCAGTAATAGTTCATTCTCCCTT
+HWI-EAS443:3:81:831:139#0/1
a^Y^aa`X`W]Z`Z`[¥]X^S¥_____]_Z_a[U¥^[V_Y
@HWI-EAS443:3:81:869:853#0/1
GCTGGCTGGATCCTGGGAAATCCAGAGTGTGAATCACTCT
+HWI-EAS443:3:81:869:853#0/1
a^WTT^`0_¥Q_a¥QRV[a_WZYZYL]Q¥LOQSUZ`_KNG
@HWI-EAS443:3:81:896:840#0/1
ACAGAATTTACTTTGTTAGTAATCTCGTCAATGGCATTCT
+HWI-EAS443:3:81:896:840#0/1
a`__YY_aaa_aa`aYZ]`Z`]`_`_`aX^`¥^`a_`a]`
@HWI-EAS443:3:81:906:1453#0/1
ATGAAATCTCCTGGGTAACACGTTCCATTGTCTGAACTAG
+HWI-EAS443:3:81:906:1453#0/1
^[a¥_Y¥ba__Z_Z¥[ZYY^b¥VT_S_SZaZ^Z`] ^PT]¥
@HWI-EAS443:3:81:922:682#0/1
GCATATCCTGACCCCTGCTCATTTTGTGATGGTGATAACCGT
+HWI-EAS443:3:81:922:682#0/1
aa`_aaaa_aa_a^__aa`^aa__Y__`_Xa^``]WV`^
@HWI-EAS443:3:81:922:930#0/1
GCTGGCTGGATCCTGGGAAATCCAGAGTGTGAATCACTCT
+HWI-EAS443:3:81:922:930#0/1
ab`]Z__a¥T_aaTQ^a_aaaaa`a^aX¥0`__`^]`^_¥
@HWI-EAS443:3:82:1031:1928#0/1
GGGGACATCAAGATACAGCAAGAAGTTCAAGCCGGAAATA
+HWI-EAS443:3:82:1031:1928#0/1
^`[R]U_U_`¥__Wa¥aaaa[a_U¥Y¥]a`aX]Za__a_Z
@HWI-EAS443:3:82:1043:507#0/1
AACGTGTTACCCAGGAGATTTTCATCGATTATGAGGAGCTA
+HWI-EAS443:3:82:1043:507#0/1
abab_babaaa_baaaa`aaaaaab`aaabaaa`_a^a_

@HWI-EAS443:3:82:1047:618#0/1
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+HWI-EAS443:3:82:1047:618#0/1
[``bbbabb`babb` ``b`ababbaababb`b[abaaa`
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+HWI-EAS443:3:82:1059:735#0/1
aaaa_abbab`abbb` `aabab__abaa_baaI^ab[baa
@HWI-EAS443:3:82:105:194#0/1
GGTGATAACCGTACCATCCATCTACCATCCCTGTCCACCC
+HWI-EAS443:3:82:105:194#0/1
`^E¥aabb`aaaaa`^aaa`a_`^`^`¥¥` [[¥\$^¥Ua
@HWI-EAS443:3:82:1071:1937#0/1
CACTGAGCTCAATTGCTCTTAGCTCCTCATAATCGATG
+HWI-EAS443:3:82:1071:1937#0/1
UY_R_]b¥`¥]bbbbbabU[`aaUb[_¥bbbb_a_^]`¥
@HWI-EAS443:3:82:1088:58#0/1
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+HWI-EAS443:3:82:1088:58#0/1
aaaa_Y]aab]^RNV^a`a[``a^`_`_a`____][^X[
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+HWI-EAS443:3:82:1157:1999#0/1
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@HWI-EAS443:3:82:1158:1309#0/1
AAGTCCTCGTGCTATGGGGCATTACCATCCATCTACTAG
+HWI-EAS443:3:82:1158:1309#0/1
_`Z`baab`V`^`^aa`]]aaba`a]`b_a_b`_a```aa
@HWI-EAS443:3:82:1165:1295#0/1
TGGTACGGTTATCACCATCAAAATGAGCAGGGGTCAGGAT
+HWI-EAS443:3:82:1165:1295#0/1
aabTa¥YWXOX]_PTY]¥__¥Q[YVaXWJV^G[S][^Z
@HWI-EAS443:3:82:1169:510#0/1
CATCAAGATACAGCAAGAAGTTCAAGCCGGAAATAGCAAT
+HWI-EAS443:3:82:1169:510#0/1
`ZTJbbb^^Zabb`Vbb]bb```¥abb`^b`b``YbJbb¥
@HWI-EAS443:3:82:1203:698#0/1
ATATGTTTTTGTGGGGACATCAAGATACAGCAAGAAGTTC
+HWI-EAS443:3:82:1203:698#0/1
aa¥aba_bb^aSbbaba`aa]bb_aaa[a__ab`b` `aa^
@HWI-EAS443:3:82:1281:253#0/1
GATGACTGAGCTCAATTGCTCTTAGCTCCTCATAAT
+HWI-EAS443:3:82:1281:253#0/1
]bbabaab_babbaabbbbaabb`bbb` `b^aa_aaaaa
@HWI-EAS443:3:82:1302:1197#0/1
GCTTCCTCTGAGTATTTTGGGTAGTCATAAGTCCCATTTT
+HWI-EAS443:3:82:1302:1197#0/1
a[¥aY^a_` `Z_L^`PW`ZXM__PU`_¥W¥Y^¥WUX_]]
@HWI-EAS443:3:82:1324:1616#0/1
ATTTCCAGTTGCTTCGAATGTTATTTTGTCTCCCGCTCT

+HWI-EAS443:3:82:1324:1616#0/1
abba]`¥_V¥aJabbbTbba^Vab`b`_OR¥baa]a]aaa
@HWI-EAS443:3:82:132:125#0/1
ATCTCGTCAATGGCATTCTGTGTGCTCTTCAGGTCGGCTG
+HWI-EAS443:3:82:132:125#0/1
a)`Wab^ZU^^^V¥]aaa]a^]^^^]_^]Z`_S`O[YU^
@HWI-EAS443:3:82:1343:803#0/1
TCTACTAGTGCTGACCAACAAAGTCTCTATCAGAATGCAG
+HWI-EAS443:3:82:1343:803#0/1
a`¥baba_^`_]ba_Zabab_____]bababa_b_^a^Yaa
@HWI-EAS443:3:82:1371:639#0/1
TTCAGGTCGGCTGCATATCCTGACCCCTGCTCATTTTGAT
+HWI-EAS443:3:82:1371:639#0/1
ab_b_a_ba`^`a`aba`_`aa_¥_Y``¥a¥``a_^____
@HWI-EAS443:3:82:1394:1762#0/1
TGGGGACATCAAGATACAGCAAGAAGTTCAAGCCGGAAAT
+HWI-EAS443:3:82:1394:1762#0/1
abaaaa_ba_a[aa^b_ba^aa`a_a¥`_aa``_aa_`a`
@HWI-EAS443:3:82:1398:947#0/1
GCTTCCTCTGAGTATTTGGGTAGTCATAAGTCCCATTTT
+HWI-EAS443:3:82:1398:947#0/1
``bba_b`bbb`_aababbb^`ab_Y`]aabaaaX`abaa
@HWI-EAS443:3:82:1446:1901#0/1
ACCTTTTCATATAAGTTCTTCACATTTGAATCGTGGTAGT
+HWI-EAS443:3:82:1446:1901#0/1
aaaaba_aaabbbbaaa_baa__aa`a`a_a_aVb_Ya`Y
@HWI-EAS443:3:82:1480:175#0/1
GCCGGTTTCATTGAAGGGGGTGGACAGGGATGGTAGATG
+HWI-EAS443:3:82:1480:175#0/1
]UO`¥T¥a]¥a¥_a_a[aaa^Y``UY_[`a[_a_VZTZQ_
@HWI-EAS443:3:82:1571:839#0/1
ATTAATGTAGGATTTGCTGAGCTTTGGGTATGAATTCCT
+HWI-EAS443:3:82:1571:839#0/1
Y``__bb^[¥_^`¥a¥a^SYZb`^_a¥VWaba__]L[¥
@HWI-EAS443:3:82:1579:1481#0/1
AGCACATCCAGAACTGATTGCCCCAGGGAGACTACCAG
+HWI-EAS443:3:82:1579:1481#0/1
aa^a_aba`abaaaaaaaaa``____```aa]a_¥a`
@HWI-EAS443:3:82:1607:1006#0/1
GTGCTCTTCAGGTCGGCTGCATATCCTGACCCCTGCTCAT
+HWI-EAS443:3:82:1607:1006#0/1
T`]T_b^bZbbJ`_ababa_^b]aTQ__^X`abbaaaHX]
@HWI-EAS443:3:82:1651:802#0/1
ACCCCATCTATTTCTTCTCTGTTTAATTTTGCTTCCTCTG
+HWI-EAS443:3:82:1651:802#0/1
aaUabab`bbbbb_bbabbaabbabbbbbbba`bb`_babb
@HWI-EAS443:3:82:1689:225#0/1
ATTAGAGCACATCCAGAACTGATTGCCCCAGGGAGACT
+HWI-EAS443:3:82:1689:225#0/1
VRFYbb]_bab`aT`bbaU__a[a`a`N][_``^_UZ_YY

@HWI-EAS443:3:82:1713:847#0/1
GACCAACAAAGTCTCTATCAGAATGCAGATGCATATGTTT
+HWI-EAS443:3:82:1713:847#0/1
aaT`b_¥bbab^aa]a_baa^aa^`¥`¥_a_U_a_aa`aa
@HWI-EAS443:3:82:1758:1152#0/1
GAATCACTCTCCACAGCAAGCTCATGGTCCTACATTGTGG
+HWI-EAS443:3:82:1758:1152#0/1
`babab_baba_baaaaaabUa[aa]a_]_aa^``a^[`Z
@HWI-EAS443:3:82:187:1744#0/1
TGTGTATTCATCTTTTCAATAACAGAATTTACTTTGTTAG
+HWI-EAS443:3:82:187:1744#0/1
ab__Ia¥¥ZW¥`_aaaaY`aa_aa_a]aa`aa_`aa`]a`
@HWI-EAS443:3:82:201:212#0/1
CCAGCCAGCAATGTTACATTTACCCAAATGCAATGGGGCT
+HWI-EAS443:3:82:201:212#0/1
abaaaaaaaa_R]][[[^[Y`__]____`[U^`_¥VS^]`^_]`
@HWI-EAS443:3:82:208:1493#0/1
ATTTGCTGAGCTTTGGGTATGAATTTCCTTTTTAACTAG
+HWI-EAS443:3:82:208:1493#0/1
aaaa`a^G]aaaaa[Xaaaaa`a`aa`____`^__]
@HWI-EAS443:3:82:227:488#0/1
GGGGACATCAAGATACAGCAAGAAGTTCAAGCCGAAATA
+HWI-EAS443:3:82:227:488#0/1
abbb_^^a`_b`aaa_babab_aa_^baaXT`a_K_`a
@HWI-EAS443:3:82:243:1106#0/1
GCTGCATATCCTGACCCCTGCTCATTGATGGTGATAAC
+HWI-EAS443:3:82:243:1106#0/1
a]_a`_H¥Ub`^_XV`V]U¥`a¥`_RRGU_WZRZ¥¥__SG
@HWI-EAS443:3:82:281:1164#0/1
TTGGGTAAATGTAACATTGCTGGCTGGATCCTGGGAAATC
+HWI-EAS443:3:82:281:1164#0/1
Y`_Z][X¥¥`a]_a^^a_¥_^T^a`_VX`_^`X^]ZQ`TZ
@HWI-EAS443:3:82:300:1816#0/1
GGGACATCAAGATACAGCAAGAAGTTCAAGCCGAAATAG
+HWI-EAS443:3:82:300:1816#0/1
a`SS¥¥X¥Y¥¥aa`ababbb_RYX[Z`b]```][X]^]a_
@HWI-EAS443:3:82:313:867#0/1
AAAAGGTAAGAAGCCAGTTAAAAACAATGCCAAGGAAAT
+HWI-EAS443:3:82:313:867#0/1
_Z``^Z`R¥Z¥baa`bZ_K_a_aa_¥_aaa`aaa[a``_
@HWI-EAS443:3:82:343:112#0/1
GCTTCCTCTGAGTATTTGGGTAGTCATAAGTCCCATTTT
+HWI-EAS443:3:82:343:112#0/1
aaba__aaabaa^_aaa`a`aZaa^]``__a^`_^_``_a
@HWI-EAS443:3:82:371:1857#0/1
GAGCAATTGAGCTCAGTGCATCATTGAAAGTTTGAGA
+HWI-EAS443:3:82:371:1857#0/1
X```aaJ```aabb`bVbVbbabba]bab`UaaSaaabab
@HWI-EAS443:3:82:412:829#0/1
ATGTTTTTGTGGGGACATCAAGATACAGCAAGAAGTTCAA

+HWI-EAS443:3:82:412:829#0/1
Xa`a_aaaabab`_aaaaaaaaaab]^^`Z^`^¥_b[
@HWI-EAS443:3:82:415:88#0/1
CTGGTGTATCTGAAATGATAATACCAGATCCAGCATTCT
+HWI-EAS443:3:82:415:88#0/1
abbb[`Xaabbbb`abba]aaaa`_a`_¥aaba`a`^a
@HWI-EAS443:3:82:432:1639#0/1
GCTGGCTGGATCCTGGGAAATCCAGAGTGTGAATCACTCT
+HWI-EAS443:3:82:432:1639#0/1
ab_¥^aZQ^¥aa¥WX[]Za_]W¥^^N_SS`]Z_[KVYT
@HWI-EAS443:3:82:455:1128#0/1
ATTGCTATTTCCGGCTTGAACCTTCTTGCTGTATCTTGATG
+HWI-EAS443:3:82:455:1128#0/1
aaaaa`aaaa_]a`_][OU_a__`^^`^^`__`^^`_]_
@HWI-EAS443:3:82:499:1915#0/1
CAATTGCTCTTAGCTCCTCATAATCGATGAAATCTCCT
+HWI-EAS443:3:82:499:1915#0/1
_K_ba_`Z]Xb]aaP[N¥]a_b_aa_a]_`PS¥]`¥Y^__
@HWI-EAS443:3:82:508:490#0/1
CAGTGTATCATTTGAAAGTTTGAGATATCCCCAAGAC
+HWI-EAS443:3:82:508:490#0/1
aba_aa`^^`bbabbb`_aa[bbaaababbaaaa`aaaa
@HWI-EAS443:3:82:50:1218#0/1
ACCACGATTCAAATGTGAAGAACTTATATGAAAAGGTAAG
+HWI-EAS443:3:82:50:1218#0/1
aaba^`Z_aaaa][_W`a`]`a__Z`__`_Z[Y][S¥`_
@HWI-EAS443:3:82:535:934#0/1
TGGGGCATTACCATCCATCTACTAGTGTGACCAACAAA
+HWI-EAS443:3:82:535:934#0/1
abb`aabbbba`abbabbaaaaaaaaa_a`a`a`aaa_aaa
@HWI-EAS443:3:82:565:1101#0/1
GGTAGTCATAAGTCCCATTTTTGACACTTTCCATGCACGT
+HWI-EAS443:3:82:565:1101#0/1
a]TX¥Yaa`aa^¥aa`]aaa`^`_a`_aX^a^_VU``_]`
@HWI-EAS443:3:82:565:1403#0/1
TCAGAATGCAGATGCATATGTTTTGTGGGGACATCAAGA
+HWI-EAS443:3:82:565:1403#0/1
_`_a___`a^_Z^aa`]Y`][`_a_Y¥_¥Y¥^aa`a^R^]
@HWI-EAS443:3:82:588:1883#0/1
AAACGGCTGCTTTGAATTTTACCACAAATGCGATAACACG
+HWI-EAS443:3:82:588:1883#0/1
`Z_a]ZZaZ[Q`]WZ_V]^`^_ZQY`¥X[[[]R¥]H[¥_
@HWI-EAS443:3:82:604:1602#0/1
GCACTAGTAGATGGATGGTGAATGCCCCATAGCACGAGGA
+HWI-EAS443:3:82:604:1602#0/1
a`Y_W^00]Y_YXRW[a]VT]Y¥¥BBBBBBBBBBBBBBBB
@HWI-EAS443:3:82:604:1812#0/1
ATGGTTTCTGACATTTGGACTTACAATGCCGAACGTGT
+HWI-EAS443:3:82:604:1812#0/1
a_W`ZZQaaV`T¥b_]a[N_a`Vaa^LS^Yb[_`a^`aYa

@HWI-EAS443:3:82:605:473#0/1
GTCCCATTTTTGACACTTCCATGCACGTGTTATCGCATT
+HWI-EAS443:3:82:605:473#0/1
^Zaaa_aba¥[__a^W^baba_aa_]]^a__V]a]¥Xa]
@HWI-EAS443:3:82:614:838#0/1
GGAAACGGCTGCTTTGAATTTTACCACAAATGCGATAACA
+HWI-EAS443:3:82:614:838#0/1
aa]b`aaabbbT_`bY^`]aa`XOYV^^abW`a_WY]aSa
@HWI-EAS443:3:82:623:1541#0/1
ATTTACTTTGTTAGTAATCTCGTCAATGGCATTCTGTGTG
+HWI-EAS443:3:82:623:1541#0/1
a```a[a_ZZaa^U_Va`b`a`_a^ZVXRaaa[``a]_^_
@HWI-EAS443:3:82:664:793#0/1
GGGACATCAAGATACAGCAAGAAGTTCAAGCCGAAATAG
+HWI-EAS443:3:82:664:793#0/1
aaa^^a_``a`^X`aaa_aaa_[a[``aa]__aa_`____
@HWI-EAS443:3:82:698:20#0/1
GATGCATATGTTTTGTGGGACATCAAGATACAGCAAGA
+HWI-EAS443:3:82:698:20#0/1
aaab`aaaab`aaa`a^ba^a_``^``_a`_`_a____aa[
@HWI-EAS443:3:82:703:885#0/1
AATTTACTTTGTTAGTAATCTCGTCAATGGCATTCTGTGT
+HWI-EAS443:3:82:703:885#0/1
]]¥X¥XXV^a]OUR¥WL^ZV`aWQY^]VWV[```aY]W
@HWI-EAS443:3:82:717:754#0/1
GATCCTGGGAAATCCAGAGTGTGAATCACTCTCCACAGCA
+HWI-EAS443:3:82:717:754#0/1
^¥Za`a_aaaaa``````aUb`ba]aaa¥]Y`]^`^aa`]
@HWI-EAS443:3:82:746:111#0/1
GCTGCTTTGAATTTTACCACAAATGCGATAACACGTGCAT
+HWI-EAS443:3:82:746:111#0/1
ab`b`aaba`^baaba[``````aa_a]`_a]^__Y_X_a
@HWI-EAS443:3:82:751:1088#0/1
AGAATATACATCCGATCACAATTGGAAAATGTCCAAAATA
+HWI-EAS443:3:82:751:1088#0/1
ab]``_ab_`b`baaa`_aa_aa`Y]V`_aa_aaa`_`_a
@HWI-EAS443:3:82:765:1943#0/1
CAAGATACAGCAAGAAGTTCAAGCCGAAATAGCAATAAG
+HWI-EAS443:3:82:765:1943#0/1
ababbabbbbabba`b]abbbaaaaaba`babbaaba`
@HWI-EAS443:3:82:787:971#0/1
ATGAAATCTCCTGGTAACACGTTCCATTGTCTGAACTAG
+HWI-EAS443:3:82:787:971#0/1
abbbbbbbbaaaabaW`_aa_aaaaaaaaaaaa_aaa____a`a
@HWI-EAS443:3:82:804:807#0/1
CAAAGTCTCTATCAGAATGCAGATGCATATGTTTTGTGG
+HWI-EAS443:3:82:804:807#0/1
`bbU`^`a`aaaabbbbaaaaaaaaaaaa`VD^aaaa`a]aa
@HWI-EAS443:3:82:840:1518#0/1
GGCTGCTTTGAATTTTACCACAAATGCGATAACACGTGCA

+HWI-EAS443:3:82:840:1518#0/1
^Xab]X_]YS[S`¥`^_W_W[a[XY^_Z]aZ`¥YUP]_U
@HWI-EAS443:3:82:853:912#0/1
GGGGCCATTGCCGGTTTCATTGAAGGGGGGTGGACAGGGA
+HWI-EAS443:3:82:853:912#0/1
abbaabaaaXaaba_baaabba^aaabbaaZaa`¥_a`_`
@HWI-EAS443:3:82:871:1561#0/1
GGGGACATCAAGATACAGCAAGAAGTTCAAGCCGGAAATA
+HWI-EAS443:3:82:871:1561#0/1
ab_aa`¥Va]¥]HJ[^aaWb]^XVXL¥W_aU`W____[^_`
@HWI-EAS443:3:82:891:500#0/1
GTGTGCTCTTCAGGTCGGCTGCATATCCTGACCCCTGCTC
+HWI-EAS443:3:82:891:500#0/1
`X¥WT]baT]^bUQ^]S]aa^X_a¥Y^`aa`_aa`Za`_]
@HWI-EAS443:3:82:956:849#0/1
CCCTGTCCACCCCTTCAATGAAACCGGCAATGGCCCCA
+HWI-EAS443:3:82:956:849#0/1
ab_NFT``]a¥X_babbb_TV`aa_aa`a^YFWa¥`]XZQ
@HWI-EAS443:3:82:96:733#0/1
CTCGTCAATGGCATTCTGTGTGCTCTTCAGGTCGGCTGCA
+HWI-EAS443:3:82:96:733#0/1
aZ`_X_XRF¥]abaabaa_b`aaaa`T^L^NX]XZa^a]]
@HWI-EAS443:3:82:97:1938#0/1
GCCAGTTAAAAACAATGCCAAGGAAATTGGAAACGGCTG
+HWI-EAS443:3:82:97:1938#0/1
ab_R¥Z_Yaa^a`bbbaabbb``aaba_a]^a``aZV__^
@HWI-EAS443:3:83:1030:822#0/1
CTCTTTACTACTGCTGTGAAGTGTGTATTTCATCTTTTCA
+HWI-EAS443:3:83:1030:822#0/1
``aaba^`ba_aa`_`_]_^P`WL]^][Z_a[_W_^¥`
@HWI-EAS443:3:83:1031:596#0/1
CTCTGAGTATTTTGGGTAGTCATAAGTCCCATTTTGGACA
+HWI-EAS443:3:83:1031:596#0/1
abbabbb`bbbbabbabbbabbbba`abbaabbbbbbbbaa
@HWI-EAS443:3:83:1035:1293#0/1
AGCCGGGAGACAAAATAACATTGCAAGCAACTGGAAATCT
+HWI-EAS443:3:83:1035:1293#0/1
a¥`a`a`_`V`a`aaa`_a`a`_`a`^`_`[_``a^^`_`¥`
@HWI-EAS443:3:83:1040:300#0/1
CAATGTAGGACCATGAGCTTGCTGTGGAGAGTGATTCACA
+HWI-EAS443:3:83:1040:300#0/1
aa^`ZU`_¥X[W[R]X_U_]`YU^^aaa_a_G]HSSR]M]
@HWI-EAS443:3:83:1069:429#0/1
CTTGAACCTTCTTGCTGTATCTTGATGTCCCCACAAAAACA
+HWI-EAS443:3:83:1069:429#0/1
abb`bbbbabaaabbbbbabbaababbaabaabaabab
@HWI-EAS443:3:83:1070:71#0/1
ATATCCCCCAAGACAAGTTCATGGCCCAATCATGACTCGA
+HWI-EAS443:3:83:1070:71#0/1
a`bbbaa`abbb[_a`aaa__a][ZUQa``__aa`RZO^V

@HWI-EAS443:3:83:1102:1052#0/1
AATTTACTTTGTTAGTAATCTCGTCAATGGCATTCTGTGT
+HWI-EAS443:3:83:1102:1052#0/1
aaabbabaH_baba`b`b`a`b_aa`_a`X_a`^`_^_]
@HWI-EAS443:3:83:1150:464#0/1
GCTTTGAATTTTACCACAAATGCGATAACACGTGCATGGA
+HWI-EAS443:3:83:1150:464#0/1
a^SY^X`_aa`[aaaa_a`_`a^_____a`¥`¥]__Q¥
@HWI-EAS443:3:83:1162:1050#0/1
CTGGGAAATCCAGAGTGTGAATCACTCTCCACAGCAAGCT
+HWI-EAS443:3:83:1162:1050#0/1
a[^_U__bbaba]_bYaUba[b`_ba]`__aaa`aaaaUW
@HWI-EAS443:3:83:1164:752#0/1
GTGGTAGTCCAAAGTTCTTTTCATTTTCCAATAGAACCAAC
+HWI-EAS443:3:83:1164:752#0/1
a^aa]bb]^`¥a__UaU¥a`_]`aa^__`__`]a0`__V
@HWI-EAS443:3:83:1278:1505#0/1
GAACTTATATGAAAAGGTAAGAAGCCAGTTAAAAACAAT
+HWI-EAS443:3:83:1278:1505#0/1
a_aT`¥T¥ab[¥]QZa]_aaa^Za]Y]a`_]¥Y`XLS_Q
@HWI-EAS443:3:83:1301:1085#0/1
GTTATTTTGTCTCCCGGCTCTACTAGTGTCCAGTAATAGT
+HWI-EAS443:3:83:1301:1085#0/1
aab_bbba[aaaZVS^_^_]^^GX^_Y_PW[R[V¥Y^ORO
@HWI-EAS443:3:83:1340:1005#0/1
CTGGTGTATCTGAAATGATAATACCAGATCCAGCATTCT
+HWI-EAS443:3:83:1340:1005#0/1
`aa`_a_abbbb`^`bbbbbb`a`bbbb`ab¥bbbaaa
@HWI-EAS443:3:83:1382:311#0/1
AAGCCAGTTAAAAACAATGCCAAGGAAATTGGAAACGGC
+HWI-EAS443:3:83:1382:311#0/1
`aa^aaa¥aaaa_a`_`ZY¥_W]a[[`S_R`_]`]^`^PZ
@HWI-EAS443:3:83:1416:183#0/1
AACAAAGTCTCTATCAGAATGCAGATGCATATGTTTTTGT
+HWI-EAS443:3:83:1416:183#0/1
Xa]aaab][^X`a`Ybba]```_^ZQYaaaa^b]aa¥P
@HWI-EAS443:3:83:1442:855#0/1
GGGACATCAAGATACAGCAAGAAGTTCAAGCCGAAATAG
+HWI-EAS443:3:83:1442:855#0/1
aab[abb_abbaaa_bb_aba`aa^`b`a_^b`__`a_^
@HWI-EAS443:3:83:144:1369#0/1
ATTGAAGGGGGTGGACAGGGATGGTAGATGGATGGTACG
+HWI-EAS443:3:83:144:1369#0/1
¥aZa[^^[XZVPXUY]a¥ZW_`^UYKU]]TMR[`XLDX`]
@HWI-EAS443:3:83:1452:1046#0/1
AACAAAGTCTCTATCAGAATGCAGATGCATATGTTTTTGT
+HWI-EAS443:3:83:1452:1046#0/1
V_aYaabbba¥aXbbVabbb^b`_YU¥]Ja]_`]^ba^WG
@HWI-EAS443:3:83:145:991#0/1
CTCGTGCTATGGGGCATTACCATCCATCTACTAGTGCTG

+HWI-EAS443:3:83:145:991#0/1
aaba^aaa]`a¥_`]a`_]aaa_a]¥Y____[_^W^_Z[
@HWI-EAS443:3:83:1478:1150#0/1
TACCCAGGAGATTTTCATCGATTATGAGGAGCTAAGAGAGC
+HWI-EAS443:3:83:1478:1150#0/1
aaa`_`baabaaaa`aa`^aa]aa____]_U``__^^^`U
@HWI-EAS443:3:83:1480:1403#0/1
CATTTTTGACACTTTCCATGCACGTGTATCGCATTGTG
+HWI-EAS443:3:83:1480:1403#0/1
a`Y_a_bba`a_a`^_[TWUU_S__bXaX_Xa]^a`aaXa
@HWI-EAS443:3:83:1509:980#0/1
TTGCTGAGCTTTGGGTATGAATTTCTTTTTTAACTAGCC
+HWI-EAS443:3:83:1509:980#0/1
aaa_a`¥aaabaaa`[aa`_^aa`^^aaa`^^`^]_`_YY
@HWI-EAS443:3:83:1523:1106#0/1
GCTTTTTGCTCCAGCATGAGGACATGCTGCCGTTACACCT
+HWI-EAS443:3:83:1523:1106#0/1
a_baabbb_¥aa_aa_b^b`a_`]`aaUaaZU^[_R`XXY
@HWI-EAS443:3:83:161:1987#0/1
TTGGAAACGGCTGCTTTGAATTTTACCACAAATGCGATAA
+HWI-EAS443:3:83:161:1987#0/1
ab`^^^`b`aa`ZV`^Z]¥LXaZXX_X^]WUF¥[YYZ_a
@HWI-EAS443:3:83:205:1552#0/1
ATGGTTTCTGACATTTGGACTTACAATGCCGAAGTGT
+HWI-EAS443:3:83:205:1552#0/1
ZZ`Xaabb`^aX^`^`a_aaba_aaaW_]_`[^`_`]]
@HWI-EAS443:3:83:247:1234#0/1
GGGGACATCAAGATACAGCAAGAAGTTCAAGCCGAAATA
+HWI-EAS443:3:83:247:1234#0/1
_bb_ab]abaY¥aabbbaaab^a^`X`a`aaaaaaaa`a
@HWI-EAS443:3:83:255:1106#0/1
GATAACCGTACCATCCATCTACCATCCCTGTCCACCCCC
+HWI-EAS443:3:83:255:1106#0/1
]XZT^ZaT^Y^`V_a``]H]]`]aaa_]_a`aba`^Uaa_
@HWI-EAS443:3:83:285:1704#0/1
CACTCTCCACAGCAAGCTCATGGTCCTACATTGTGGAAAC
+HWI-EAS443:3:83:285:1704#0/1
a]a_Y`b[aYaYU[YU`____U¥V^a_] ^JT^W]R[S_^]
@HWI-EAS443:3:83:324:1478#0/1
GCTCCTCATAATCGATGAAATCTCCTGGGTAACACGTTCC
+HWI-EAS443:3:83:324:1478#0/1
aa_aa_aV`__^aa`_R_a`]_^a¥^¥YXX`^a_X]a^
@HWI-EAS443:3:83:338:1311#0/1
AAAAGTTGATGATGGTTTCTGGACATTTGGACTTACAAT
+HWI-EAS443:3:83:338:1311#0/1
a`^_]`a`a__Y_]_^]__`^W]]_^]_^]]_`Z]]^Z^
@HWI-EAS443:3:83:362:1841#0/1
GGGGACATCAAGATACAGCAAGAAGTTCAAGCCGAAATA
+HWI-EAS443:3:83:362:1841#0/1
abaaabbabbbbaaabbaabbaaaaa¥_aba`ab__a_a`a

@HWI-EAS443:3:83:385:160#0/1
TTCGAATGTTATTTTGTCTCCCGCTCTACTAGTGCCAG
+HWI-EAS443:3:83:385:160#0/1
aaabaabb``_bbaa_aa``^[_`_¥¥NY[ZUYPWUNV
@HWI-EAS443:3:83:431:1624#0/1
TGGCTTCTTACCTTTTCATATAAGTTCTTCACATTTGAAT
+HWI-EAS443:3:83:431:1624#0/1
VH_a`U`_^^`aaaaaa`YUY`XY_aa`aZ¥[_U]``a_
@HWI-EAS443:3:83:459:1894#0/1
TGGCTGGATCCTGGGAAATCCAGAGTGTGAATCACTCTCC
+HWI-EAS443:3:83:459:1894#0/1
a``a``a`baa_a_aa¥^__a``_V_] [aa¥_____Z`_
@HWI-EAS443:3:83:471:1910#0/1
CTCTATTCTTTTTTCCAGGTGGTTGAACTCTTTACCTACT
+HWI-EAS443:3:83:471:1910#0/1
aab]aaaaaaaa`aa`a_]a_Z`VY^^¥T_`__`UYZ]^
@HWI-EAS443:3:83:493:699#0/1
GAAGCTTTTTGCTCCAGCATGAGGACATGCTGCCGTTACA
+HWI-EAS443:3:83:493:699#0/1
a`_`a_a[[]_]Y`_a`^X^YR_] [__^[_^]¥U^PGVXX
@HWI-EAS443:3:83:523:1162#0/1
GGGACATCAAGATACAGCAAGAAGTTCAAGCCGGAAATAG
+HWI-EAS443:3:83:523:1162#0/1
aa_P__``_ZX`_Q¥aaa`^^U`aT¥Y[¥V`_[U[Y]T^]
@HWI-EAS443:3:83:529:688#0/1
GCTTCCTCTGAGTATTTTGGGTAGTCATAAGTCCCATTTT
+HWI-EAS443:3:83:529:688#0/1
aaaa`_aaaaaa_aa]_aaaaWaa^a`a`a_]`^YTa__`
@HWI-EAS443:3:83:542:1380#0/1
AGAGAGCAATTGAGCTCAGTGCATCATTTGAAAGTTTG
+HWI-EAS443:3:83:542:1380#0/1
a[ba¥_b`baa^[a_Ya_YM¥X__`_aaaa_a_[]YZ`_`^
@HWI-EAS443:3:83:611:782#0/1
CAAAGTCTCTATCAGAATGCAGATGCATATGTTTTTGTGG
+HWI-EAS443:3:83:611:782#0/1
aX_XH_b`bb¥b¥Z`_U]¥b^babbaX¥bbbSbaabbSaa
@HWI-EAS443:3:83:618:1540#0/1
GGGACATCAAGATACAGCAAGAAGTTCAAGCCGGAAATA
+HWI-EAS443:3:83:618:1540#0/1
]aa^_a``bbb`aaabbabbbbaZa_abbaabaaaaaaaa
@HWI-EAS443:3:83:668:1377#0/1
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+HWI-EAS443:3:83:668:1377#0/1
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@HWI-EAS443:3:83:670:1106#0/1
ATTTTTGTAGAAGCTTTTTGCTCCAGCATGAGGACATGCT
+HWI-EAS443:3:83:670:1106#0/1
abbbbabaaa_`¥aaaaaba^`_]`aaa`a`a_]Z¥`_`__
@HWI-EAS443:3:83:671:908#0/1
ATCGATTATGAGGAGCTAAGAGAGCAATTGAGCTCAGTGT

+HWI-EAS443:3:83:671:908#0/1
abba^bbaabaaa¥ab`aaa^aaaaa^_aaa`a¥_a^a^
@HWI-EAS443:3:83:700:71#0/1
TGGCTGGATCCTGGGAAATCCAGAGTGTGAATCACTCTCC
+HWI-EAS443:3:83:700:71#0/1
aab__a_Z_[^__`^_¥W¥¥_¥_W`V_¥]ZSZUVV[US
@HWI-EAS443:3:83:757:1207#0/1
ATTTTACCACAAATGCGATAACACGTGCATGGAAAGTGTC
+HWI-EAS443:3:83:757:1207#0/1
^aabaabbb`a^aabbbaaaaaaab_baabaaaa`b]aZH
@HWI-EAS443:3:83:778:1035#0/1
AGGTGGTTGAACTCTTACCTACTGCTGTGAACTGTGTAT
+HWI-EAS443:3:83:778:1035#0/1
ab`Rab]aaaa^a[aaab]aaaaaaaa_a_a_aa_a]aa
@HWI-EAS443:3:83:804:392#0/1
CAATTGAGCTCAGTGTGCATCATTTGAAAGTTTGAGATAT
+HWI-EAS443:3:83:804:392#0/1
`_a_]_]Z^baZ[]bVY`^UX`aa``]abb^a^aa^a`a]
@HWI-EAS443:3:83:897:1694#0/1
CCGGCTCTACTAGTGTCCAGTAATAGTTCATTCTCCCTTC
+HWI-EAS443:3:83:897:1694#0/1
abaa``_RUZa_]R]Xa``¥^Y]X¥UV^V^^__a]Z_^]
@HWI-EAS443:3:83:909:395#0/1
GCTGGCTGGATCCTGGGAAATCCAGAGTGTGAATCACTCT
+HWI-EAS443:3:83:909:395#0/1
aaaZZ__^]VYV¥U0^R]a`_]^SQ^SZ`T¥^`VNZZZ_Z
@HWI-EAS443:3:83:914:1444#0/1
GTTGGTCTATTGGAAAATGAAAGAACTTTGGACTACCAC
+HWI-EAS443:3:83:914:1444#0/1
a`aa^aaaaaaa`b]```__a[a^__`__^```__]
@HWI-EAS443:3:83:921:1262#0/1
GAACTTATATGAAAAGGTAAGAAGCCAGTAAAAAACAAT
+HWI-EAS443:3:83:921:1262#0/1
a`a^aaaa`bbaa`aaa_aaaaa`a`aa`a```a__a``
@HWI-EAS443:3:83:92:528#0/1
CGGGAAACTATGCAAATAAGAGGGGTAGCCCCATTGCAT
+HWI-EAS443:3:83:92:528#0/1
a`aa_``¥]]Za]WfU__¥b`W`b`PL¥YZ_]PHRIY^[T
@HWI-EAS443:3:83:979:841#0/1
GCTGGCTGGATCCTGGGAAATCCAGAGTGTGAATCACTCT
+HWI-EAS443:3:83:979:841#0/1
aa`a``]__YVIa_ZaX`U_`^SXVYZ`aX¥¥^¥¥M__W¥
@HWI-EAS443:3:83:98:1263#0/1
GGCCCAATCATGACTCGAACAAAGGTGTAACGGCAGCATG
+HWI-EAS443:3:83:98:1263#0/1
]Sbba¥`a`]¥]]a_a`Ja_^P_]YPPZ^¥^[[`^BBBBB
@HWI-EAS443:3:84:1019:1367#0/1
GATCTATTCAACTGTCGCCAGTTCATTGGTACTGGTAGTC
+HWI-EAS443:3:84:1019:1367#0/1
aaaaa`bababaaa]aaa_`^a`a_a`a^a^__Va_S]

@HWI-EAS443:3:84:1042:159#0/1
GACAAGTTGTATTGCAATCGTGGACTGGTGTATCTGAAAT
+HWI-EAS443:3:84:1042:159#0/1
a``abaaaaaaaaaaa_aaa`a_aa`_`aa]b_a`^aa_^__
@HWI-EAS443:3:84:1057:636#0/1
GAACGTGTTACCCAGGAGATTTTCATCGATTATGAGGAGCT
+HWI-EAS443:3:84:1057:636#0/1
aab¥`^b_YY`aa[aaaa`[^_ZR[`aZZ¥`Z__`^YT¥
@HWI-EAS443:3:84:1075:880#0/1
TTACCCCATCTATTTCTTCTCTGTTTAATTTTGCTTCCTC
+HWI-EAS443:3:84:1075:880#0/1
ab`X^_``aaaabaaaaababa`aaa`aaaa`_`a]^a_
@HWI-EAS443:3:84:1079:1381#0/1
GAACTCTTTACCTACTGCTGTGAAGTGTATTTCATCTTT
+HWI-EAS443:3:84:1079:1381#0/1
XW`b``ab`b]a`bab`abbb`]a_ababVabbX_aabaa
@HWI-EAS443:3:84:1080:955#0/1
ATTTTACCACAAATGCGATAACACGTGCATGGAAAGTGTC
+HWI-EAS443:3:84:1080:955#0/1
`ab`aab`b`a__a^aaa_¥`a_a[aa`Ya^`a_] [aP_
@HWI-EAS443:3:84:1087:655#0/1
CTCTATCAGAATGCAGATGCATATGTTTTTGTGGGGACAT
+HWI-EAS443:3:84:1087:655#0/1
abb^U^a`b`¥bbba`a`aa_baab`aa`bbababba`aa
@HWI-EAS443:3:84:1103:1192#0/1
TACAGCAAGAAGTTCAAGCCGAAATAGCAATAAGACCCA
+HWI-EAS443:3:84:1103:1192#0/1
_ZaW_a^baQQ_¥`V_[Z[W``aa`aaaVaa^S_`Ya[¥Y
@HWI-EAS443:3:84:1118:1058#0/1
CAAAAACATATGCATCTGCATTCTGATAGAGACTTTGTTG
+HWI-EAS443:3:84:1118:1058#0/1
abbbbaabba`aaaaaabab^aaaaabb`aa`baaa^a]
@HWI-EAS443:3:84:1124:492#0/1
GTAAAATTCAAAGCAGCCGTTTCCAATTTCCCTTGGCATTG
+HWI-EAS443:3:84:1124:492#0/1
aabbbabaabaaaXaa`_aaaa_``aa`]Sa`a`^_``a
@HWI-EAS443:3:84:1127:1682#0/1
CTTTGGGTCTTATTGCTATTTCCGGCTTGAACCTTCTTGCT
+HWI-EAS443:3:84:1127:1682#0/1
__b_`¥¥_aa_baaa_aa``_]Z]Y````^aQ]_] [[^¥^
@HWI-EAS443:3:84:114:453#0/1
GCTGGCTGGATCCTGGGAAATCCAGAGTGTGAATCACTCT
+HWI-EAS443:3:84:114:453#0/1
aaaaaa_a¥]^a`¥``a]Wa^a`Y_^aU_¥Z¥V¥S^¥VUV
@HWI-EAS443:3:84:1175:1863#0/1
GACAAGTTGTATTGCAATCGTGGACTGGTGTATCTGAAAT
+HWI-EAS443:3:84:1175:1863#0/1
aabZRa`aa`Y]Wb`a_a]^R_V¥W`U[Q`Ya]_S`____
@HWI-EAS443:3:84:123:179#0/1
GACCAACAAAGTCTCTATCAGAATGCAGATGCATATGTTT

+HWI-EAS443:3:84:123:179#0/1
a_bb_bb`Zab`abab`bbbb^Ta`abaa`a`aaaab`aa
@HWI-EAS443:3:84:1273:1985#0/1
AATGGAACGTGTTACCCAGGAGATTTTCATCGATTATGAGG
+HWI-EAS443:3:84:1273:1985#0/1
aaa_aaa[_]^`aZaa`__a^`a_W¥_`^`^a__`_^
@HWI-EAS443:3:84:1293:426#0/1
AGCCAGTTAAAAACAATGCCAAGGAAATTGGAAACGGCT
+HWI-EAS443:3:84:1293:426#0/1
a__¥^aT__[[`V``_]a¥¥`W^a]]__]_]¥^]`^[^
@HWI-EAS443:3:84:1318:1004#0/1
TGTAGAGACCCATTAGAGCACATCCAGAAACTGATTGCCC
+HWI-EAS443:3:84:1318:1004#0/1
a`[^`aaaa`_a`Z]aa__a]aa)`aaaa^^`_a_a^WZ
@HWI-EAS443:3:84:131:427#0/1
GAAGTCCTCGTGCTATGGGGCATTACCATCCATCTACTA
+HWI-EAS443:3:84:131:427#0/1
a¥a`_aaaba_aa]ORaY`aa_aaa¥a`_[aa^[`VSZ_[
@HWI-EAS443:3:84:1339:1010#0/1
TTTTTGTGGGACATCAAGATACAGCAAGAAGTTCAAGCC
+HWI-EAS443:3:84:1339:1010#0/1
a_aaa`¥a`_`_^`_`¥^_]aa_a`_`__^_W_]_]_X^
@HWI-EAS443:3:84:1375:485#0/1
ACGATTCAAATGTGAAGAACTTATATGAAAAGGTAAGAAG
+HWI-EAS443:3:84:1375:485#0/1
`_b]aa^R[aab^_aW`a``aaaab`_a_b`Wa¥a``^
@HWI-EAS443:3:84:1404:146#0/1
CTCCCATTTCAGAATATACATCCGATCACAATTGGAAAAT
+HWI-EAS443:3:84:1404:146#0/1
aW`Ua_baaR_baab[b`^aa`_a_aPa^a_aaa_^_]`_
@HWI-EAS443:3:84:1549:1197#0/1
GGTTTCATTGAAGGGGGTGGACAGGGATGGTAGATGGAT
+HWI-EAS443:3:84:1549:1197#0/1
aaa`a`ab]a¥_ba¥a_]Yaaa_]a`a`aaY`_`__aW_
@HWI-EAS443:3:84:1600:1939#0/1
GAAATTGGAAACGGCTGCTTTGAATTTTACCACAAATGCG
+HWI-EAS443:3:84:1600:1939#0/1
a`aa`ba^`b`ba`a`[[_]T`XaaaWNW]Sa`aNZYW
@HWI-EAS443:3:84:164:649#0/1
TATTTGGGGCCATTGCCGTTTCATTGAAGGGGGTGGAC
+HWI-EAS443:3:84:164:649#0/1
a_a^aaaaaa^a`aaaa^aU]a_PW`^Ya`a^`_Ua^RU
@HWI-EAS443:3:84:190:267#0/1
CCGGCTTGAACCTTCTTGCTGTATCTTGATGTCCCCACAAA
+HWI-EAS443:3:84:190:267#0/1
abbaa`a]¥a_a`a^`a__a`_`__a__^_]`]^`^^S
@HWI-EAS443:3:84:198:367#0/1
CAATGTAGGACCATGAGCTTGCTGTGGAGAGTGATTCA
+HWI-EAS443:3:84:198:367#0/1
aabb[[[_ZX_a`]¥_]¥aa`a_a`UaY]Y_____`]¥¥

+HWI-EAS443:3:84:444:338#0/1
aabb]`aaa_aaa`__a]^_a^^`_`¥`^`_`_][Y]_]
@HWI-EAS443:3:84:467:1690#0/1
GTCATGATTGGCCATGAACTTGTCTTGGGAATATCTCA
+HWI-EAS443:3:84:467:1690#0/1
`aaVWZ``_bZ¥aaa^^a`aaWaba`bb^V¥^[``aa
@HWI-EAS443:3:84:514:1987#0/1
GTGAAGTGTATTTCATCTTTTCAATAACAGAATTTACTT
+HWI-EAS443:3:84:514:1987#0/1
a[^^`_`S¥_a¥^]X]^`^]]`^]_`a_a_^`^[_¥`_`^
@HWI-EAS443:3:84:535:229#0/1
CAATGAAACCGCAATGGCCCCAAATAGGCCTCTAGATTG
+HWI-EAS443:3:84:535:229#0/1
a`bab`bbaaa`bbb_baa_^aa]````a`_a^¥S_^W_
@HWI-EAS443:3:84:536:1157#0/1
CTACATTAATGATAAAGGGAAAGAAGTCCTCGTGCTATGG
+HWI-EAS443:3:84:536:1157#0/1
aaab`]^[`^WK^`Y_¥^RV`aa_^WZa`_a_Z¥¥[____[
@HWI-EAS443:3:84:541:1741#0/1
GGGACATCAAGATACAGCAAGAAGTTCAAGCCGAAATAG
+HWI-EAS443:3:84:541:1741#0/1
_W^bb`abbbababbbabbb`baZ]abaaaaa`a`baa]
@HWI-EAS443:3:84:584:1867#0/1
AAATCCTTGTGATTCCAGCTTTACCCCATCTATTTCTTC
+HWI-EAS443:3:84:584:1867#0/1
a¥aaaaaa`__a`aaa^[SR`a`a]X`a^__a_aa¥_a__
@HWI-EAS443:3:84:601:1105#0/1
GAACTCTTTACCTACTGCTGTGAAGTGTATTTCATCTTT
+HWI-EAS443:3:84:601:1105#0/1
aaa`aaa`aaaaa`aa__a^`____`]a]a__`^`^`_`
@HWI-EAS443:3:84:603:1620#0/1
CAATGCCAAGGAAATTGGAAACGGCTGCTTTGAATTTTAC
+HWI-EAS443:3:84:603:1620#0/1
a`^aaaba¥a`Va`aa`aa_Y_a```_LO]]HU]W__aMJ
@HWI-EAS443:3:84:638:1273#0/1
AAGAACTTATATGAAAAGGTAAGAAGCCAGTTAAAAACA
+HWI-EAS443:3:84:638:1273#0/1
¥baaaaabbaaba`_¥aaa]aaaaaaaaa^aaaa`¥a`a
@HWI-EAS443:3:84:63:1633#0/1
GGCTGGTGTATAGCACCCCTGGGTGTCTGACAAGTTGT
+HWI-EAS443:3:84:63:1633#0/1
a`baa_[``a`V]_aaabaa¥a`_ZR¥[`a]a`[¥`Z__W
@HWI-EAS443:3:84:64:1758#0/1
ATTTTACCACAAATGCGATAACACGTGCATGGAAAGTGC
+HWI-EAS443:3:84:64:1758#0/1
`] ^T^ba`^`[_YUZ^[_¥Y^aZ_QVW`_VOY[`WZ]WX
@HWI-EAS443:3:84:676:1147#0/1
CTGGTGTATAGCACCCCTGGGTGTCTGACAAGTTGTAT
+HWI-EAS443:3:84:676:1147#0/1
abbaSa^abbaa`]a]baaa`_SUAWaaa`^]aaZ_]Y_W

@HWI-EAS443:3:84:704:1042#0/1
ATTTGCTGAGCTTTGGGTATGAATTTCTTTTTTAACTAG
+HWI-EAS443:3:84:704:1042#0/1
abbaabab_`[\`aaaaVa^a_U`aaa_aaaaaaWW]¥^
@HWI-EAS443:3:84:731:1490#0/1
GGATATGCAGCCGACCTGAAGAGCACACAGAATGCCATTG
+HWI-EAS443:3:84:731:1490#0/1
aZQub_]a`SY]YVSXVN]VTRYPHQVYYRHNX¥aJUQ]^
@HWI-EAS443:3:84:76:453#0/1
GTGGGGACATCAAGATACAGCAAGAAGTTCAAGCCGGAAA
+HWI-EAS443:3:84:76:453#0/1
a^aa_`X¥Ya_a[a__a_`a`aa`S]`ZUaa]`_^_^]X_
@HWI-EAS443:3:84:803:631#0/1
TAGATTTCCAGTTGCTTCGAATGTTATTTTGTCTCCCGGC
+HWI-EAS443:3:84:803:631#0/1
aa_R¥^`a¥Z_Z`VZ]Y_¥Z]`^^ZSZa_TRZ¥_k]¥VP
@HWI-EAS443:3:84:804:1714#0/1
GCCGGGAGACAAAATAACATTCGAAGCAACTGGAAATCTA
+HWI-EAS443:3:84:804:1714#0/1
]Z`_H¥```baba```_SaababZ]b`babbbba¥^bbb`
@HWI-EAS443:3:84:809:342#0/1
ATGAAAGAACTTTGGACTACCACGATTCAAATGTGAAGAA
+HWI-EAS443:3:84:809:342#0/1
_`ba`aaa^]^^```aaab_Z`abaaaa`a`aa^ba`a^`
@HWI-EAS443:3:84:813:646#0/1
GATGAAATCTCCTGGGTAACACGTTCCATTGTCTGAACTA
+HWI-EAS443:3:84:813:646#0/1
`RU[ZW]a`a`^WDS]S[U` `_`[_a][XXUDOYWKX^WX
@HWI-EAS443:3:84:857:356#0/1
ATCTACTAGTGCTGACCAACAAAGTCTCTATCAGAATGCA
+HWI-EAS443:3:84:857:356#0/1
SYV^^U` `YH^ZP_^Ya_Z]`¥_`Yaab^aaba¥PX¥_a
@HWI-EAS443:3:84:860:1316#0/1
AGCCTCCCATTTCAGAATATACATCCGATCACAATTGGAA
+HWI-EAS443:3:84:860:1316#0/1
aabaabbbab`aba^aaaaaab`aaaa` `aaaa_]Z`]
@HWI-EAS443:3:84:864:1784#0/1
AGCCAGTTAAAAACAATGCCAAGGAAATTGGAAACGGCT
+HWI-EAS443:3:84:864:1784#0/1
]]`a`IG¥^a^aaXR^aP`R0` `Z¥_[][[`Y_]``[V^U
@HWI-EAS443:3:84:864:39#0/1
CACGTGTATCGCATTGTGGTAAAATTCAAAGCAGCCGT
+HWI-EAS443:3:84:864:39#0/1
`]abTbRba_¥` `aa` `¥baUaa`]a__¥^`__` `]¥_X
@HWI-EAS443:3:84:864:601#0/1
ATTGCCGTTTCATTGAAGGGGGTGGACAGGGATGGTAG
+HWI-EAS443:3:84:864:601#0/1
`_aa_bb_U_b_J¥a[WJVab_`bV]_[a`^a]Q]aUTZ¥
@HWI-EAS443:3:84:870:1618#0/1
CTTCGAATGTTATTTTGTCTCCCGGCTCTACTAGTGCCA

+HWI-EAS443:3:84:870:1618#0/1
aaaaaaaa_aaaaaa^aa`aa^_____]^ZXZV__]
@HWI-EAS443:3:84:875:1633#0/1
GCCGGTTTCATTGAAGGGGGTGGACAGGGATGGTAGATG
+HWI-EAS443:3:84:875:1633#0/1
ZZ_¥]YT_¥]`_WW_¥TUKXYL^VV_UZWRTONHRV^BBB
@HWI-EAS443:3:84:897:47#0/1
GGCTGGTGTTTATAGCACCTTGGGTGTCTGACAAGTTGT
+HWI-EAS443:3:84:897:47#0/1
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@HWI-EAS443:3:84:898:434#0/1
GCCAGTTAAAAACAATGCCAAGGAAATTGGAACGGCTG
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a`abbabaaaaa`aabaa`aaaaa`aa``a`a^[a]
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+HWI-EAS443:3:84:936:89#0/1
aa`aT_a_`_^a_]`ba__]_]¥_^_a]aa_^]_aa^T]_
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a\_aaa\_aaaa\_aa^aaab````aa\_\_\_`\_``\_\_\_^]`^Z` [  
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a`\_`aa\_a\_^a`^`\_\_ [a`a\_[a^\_]^^Wa\_a\_`\_\_^^  
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+HWI-EAS443:3:85:400:1175#0/1  
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^\_\_¥aaaaaaaa`aaa¥aaa`a\_a[ `a` `a` `a` `^` ` `Y`  
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+HWI-EAS443:3:85:775:930#0/1  
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aa`\_^aa`aaY¥a\_a\_a`\_a\_aaaa`\_a^a`a\_a` `` `^`

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+HWI-EAS443:3:86:1196:1269#0/1  
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+HWI-EAS443:3:86:1382:1364#0/1
abaa_`abb`]`a`aaa[X¥Z_T_aab__baa_¥]T[_
@HWI-EAS443:3:86:1487:1455#0/1
CCTCATAATCGATGAAATCTCCTGGGTAACACGTTCCATT
+HWI-EAS443:3:86:1487:1455#0/1
U_b`bbbbbabbababbbbababb^Y^`ababbba`bbb
@HWI-EAS443:3:86:1490:594#0/1
CATGAGGACATGCTGCCGTTACACCTTTGTTGAGTCATG
+HWI-EAS443:3:86:1490:594#0/1
H_baaabaabbb^ba`YaZa]]b_a_]bb`[SaabU`bbV

@HWI-EAS443:3:86:1518:1532#0/1
GACAAAATAACATTCTGAAGCAACTGGAAATCTAGTGGTAC
+HWI-EAS443:3:86:1518:1532#0/1
``^]aaa_``]a`]¥`a_W]a_aaa_]aY`aWa_Ya]
@HWI-EAS443:3:86:1556:823#0/1
AAGCCAGTTAAAAACAATGCCAAGGAAATTGGAAACGGC
+HWI-EAS443:3:86:1556:823#0/1
aab¥¥bba`Y__`a¥`b`aa^`a_aa]¥Ua`¥__^_^_[U
@HWI-EAS443:3:86:1588:607#0/1
AGTCCTCGTCTATGGGGCATTACCATCCATCTACTAGT
+HWI-EAS443:3:86:1588:607#0/1
`baa`a`ba]_b`ab[bbV`baaaYG^`VX^`^aa_`a_W
@HWI-EAS443:3:86:1611:1096#0/1
ACAGAATTTACTTTGTTAGTAATCTCGTCAATGGCATTCT
+HWI-EAS443:3:86:1611:1096#0/1
a_baaababa^ababbbba`aabab¥ba^a^`a¥K[`aS_
@HWI-EAS443:3:86:1666:74#0/1
GTTGCTTCGAATGTTATTTGTCTCCCGCTCTACTAGTG
+HWI-EAS443:3:86:1666:74#0/1
`RZa_`bPaWx^W_X```YOXR_^JOS_VXYYRXRTWY
@HWI-EAS443:3:86:1716:1056#0/1
ATGAGGACATGCTGCCGTTACACCTTTGTTTCGAGTCATGA
+HWI-EAS443:3:86:1716:1056#0/1
aaabbababb`baa]baaaXaU[_a`a^a]`_`UU^`a_
@HWI-EAS443:3:86:1717:519#0/1
GAACTCTTACCTACTGCTGTGAACTGTGTATTCATCTTT
+HWI-EAS443:3:86:1717:519#0/1
V[abbb¥`b_L`a_aaY¥```]aP`bab`¥bb_a¥G_ab
@HWI-EAS443:3:86:1744:1851#0/1
TAAAAAGCACAAAATTGAGACTGGCCACAGGATTGAGGAA
+HWI-EAS443:3:86:1744:1851#0/1
abababa`a`aa]aaaa_a¥`a¥__aU]`a¥^`¥[^X^X^
@HWI-EAS443:3:86:1760:284#0/1
GCACGTGTTATCGCATTTGTGGTAAAATTCAAAGCAGCCG
+HWI-EAS443:3:86:1760:284#0/1
``b`aaa^bbb^ba_bb`X]bba`bbbbbabaa]H¥]TQa
@HWI-EAS443:3:86:1785:109#0/1
AAGCCAGTTAAAAACAATGCCAAGGAAATTGGAAACGGC
+HWI-EAS443:3:86:1785:109#0/1
ab^a`a`bbba^aa¥aaba`a`a^Y__a__X_]`NPZV
@HWI-EAS443:3:86:232:1550#0/1
CAGGTCGGCTGCATATCCTGACCCCTGCTCATTTTGATGG
+HWI-EAS443:3:86:232:1550#0/1
]NOQV_aaaaaa_]`T^]NXVU_¥ZHTYQ^T¥[_¥[ZLTU
@HWI-EAS443:3:86:235:1033#0/1
GCTGCTTTGAATTTTACCACAAATGCGATAACACGTGCAT
+HWI-EAS443:3:86:235:1033#0/1
¥V¥NY`aZS_P_WY^_U^a__YVR]_Y_¥_]`[^]X_W]L
@HWI-EAS443:3:86:29:479#0/1
GCTGACCAACAAAGTCTCTATCAGAATGCAGATGCATATG

+HWI-EAS443:3:86:29:479#0/1
aba]a]ab^aaa`a¥]a`aaS^a_T[L_UU`UV]LU^ZY_
@HWI-EAS443:3:86:300:1646#0/1
TTCATCGATTATGAGGAGCTAAGAGAGCAATTGAGCTCAG
+HWI-EAS443:3:86:300:1646#0/1
aa_a__a```_____^]]`ZZ]X^^_¥_ZZ¥]¥]ZZ]^
@HWI-EAS443:3:86:323:432#0/1
CTCTTTACTACTGCTGTGAAGTGTATTTCATCTTTTCA
+HWI-EAS443:3:86:323:432#0/1
abbbbbbbbb`ababb_a`a`ab^``aaaaaaaaaaaaa
@HWI-EAS443:3:86:328:1515#0/1
ATGGCATTCTGTGTGCTCTTCAGGTCGGCTGCATATCCTG
+HWI-EAS443:3:86:328:1515#0/1
a_]_aaaa`__Yaaaa`__a`^W_a]a[_[_Z[W[WU¥
@HWI-EAS443:3:86:338:582#0/1
GGGGACATCAAGATACAGCAAGAAGTTCAAGCCGAAATA
+HWI-EAS443:3:86:338:582#0/1
abba`a`a`[a`a`ba_aba`]]`[b_b__a_^_]__
@HWI-EAS443:3:86:37:1668#0/1
AACAGAATTTACTTTGTTAGTAATCTCGTCAATGGCATTCT
+HWI-EAS443:3:86:37:1668#0/1
`aa`_aaa`aaaa`_a_a] []aa```_aX`^]]V`^]_
@HWI-EAS443:3:86:405:176#0/1
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+HWI-EAS443:3:86:405:176#0/1
aa`bab_a]`babaaaa¥a]_aa`_]`_a¥^a_a^^]^X
@HWI-EAS443:3:86:431:622#0/1
CAAAGCTCAGCAAATCCTACATTAATGATAAAGGGAAAGA
+HWI-EAS443:3:86:431:622#0/1
a`XQ^aaaba_¥a_Y`a]`YT`XYa_[aa__W`LL¥a`
@HWI-EAS443:3:86:456:570#0/1
CTTGTCTTGGGAATATCTCAAACCTTTCAAATGATGACA
+HWI-EAS443:3:86:456:570#0/1
aaaa^aaaabaa_a`_`a`aaaa_a`^`a`_a`_`^`
@HWI-EAS443:3:86:461:825#0/1
GAGCACATCCAGAACTGATTGCCCCAGGGAGACTACCA
+HWI-EAS443:3:86:461:825#0/1
a`bbb`bbbbaaa`ab`b`^bb`a`a`ba`_aa^Za_V^
@HWI-EAS443:3:86:494:1058#0/1
TGCCCCCAGGGAGACTACCAAGTACCAATGAACTGGCGACA
+HWI-EAS443:3:86:494:1058#0/1
¥`b`[]XX_W`b^a]T_]¥TMX0`¥F^URZRU¥[U]ZX¥
@HWI-EAS443:3:86:535:369#0/1
ATGTTTTTGTGGGACATCAAGATACAGCAAGAAGTTCAA
+HWI-EAS443:3:86:535:369#0/1
abbaabbbb]bbaa`baaaaaaa`aa`_aa`b¥`_a_
@HWI-EAS443:3:86:542:1545#0/1
GAATTTACTTTGTTAGTAATCTCGTCAATGGCATTCTGTG
+HWI-EAS443:3:86:542:1545#0/1
`RX_XaSZ¥¥_¥^_a`]^_¥ab¥_W`^`^a]a``¥^TQY

@HWI-EAS443:3:86:551:982#0/1
CTTTTTCCAGGTGGTTGAACTCTTTACCTACTGCTGTGA
+HWI-EAS443:3:86:551:982#0/1
ZWbbbb`ab`^`_ab]H]¥Q¥]`aab`MaM^]¥¥_[aaZ_S
@HWI-EAS443:3:86:590:20#0/1
GATCCTGGGAAATCCAGAGTGTGAATCACTCTCCACAGCA
+HWI-EAS443:3:86:590:20#0/1
aa_a^_]_a`_a`Z`a`V_^`Za_`¥X_[_[^XRVU[`WT
@HWI-EAS443:3:86:599:1975#0/1
ATTCCTCAATCCTGTGGCCAGTCTCAATTTTGTGCTTTTT
+HWI-EAS443:3:86:599:1975#0/1
aba``aaab`a]`¥¥`_a`SXZaZ_a```a^]X^^aa`a
@HWI-EAS443:3:86:603:480#0/1
ACTAGATTTCCAGTTGCTTCGAATGTTATTTTGTCTCCCG
+HWI-EAS443:3:86:603:480#0/1
abbabaabbaaab]aabbaaaaa`_`aaabaaa_``_]Xa
@HWI-EAS443:3:86:640:1184#0/1
GTTAAAAACAATGCCAAGGAAATTGGAAACGGCTGCTTT
+HWI-EAS443:3:86:640:1184#0/1
a^bbbabbabbabababbaaaa`_a_[ab`_`__`G¥_a
@HWI-EAS443:3:86:645:170#0/1
CTCGTCAATGGCATTCTGTGTGCTCTTCAGGTCGGCTGCA
+HWI-EAS443:3:86:645:170#0/1
a¥___[___]T¥I``aa_TM_TR¥`P¥ZLO``XFT]ZR^HX
@HWI-EAS443:3:86:676:1264#0/1
AGAAGACAAGCATAACGGGAACTATGCAAATAAGAGGG
+HWI-EAS443:3:86:676:1264#0/1
aaaaa`^WS¥___^a^_aZ[R_[^`MWZKMXV^UWRZVNT
@HWI-EAS443:3:86:698:670#0/1
TTCGAATGTTATTTTGTCTCCCGCTCTACTAGTGTCCAG
+HWI-EAS443:3:86:698:670#0/1
^abb`abb_^[^aab````a^¥b]T`a_VX]^aP¥]RZ_a
@HWI-EAS443:3:86:710:260#0/1
AGCCAGTTAAAAACAATGCCAAGGAAATTGGAAACGGCT
+HWI-EAS443:3:86:710:260#0/1
aaa``````aaaa_][][^_[Xa__`]¥``a_`__`[SVU`
@HWI-EAS443:3:86:715:147#0/1
GTGGGGACATCAAGATACAGCAAGAAGTTCAAGCCGGAAA
+HWI-EAS443:3:86:715:147#0/1
]Sa_a`_]`^M`ab`]a]^a`V]`a]¥TQa`aaW[`_Z[U
@HWI-EAS443:3:86:716:2040#0/1
GTTGCTTCGAATGTTATTTTGTCTCCCGCTCTACTAGTG
+HWI-EAS443:3:86:716:2040#0/1
a___`aa`a`^aaa_```aa`^___`_`__^Z_Z^^¥_QUTV
@HWI-EAS443:3:86:72:1291#0/1
GAGCTTGCTGTGGAGAGTGATTCACACTCTGGATTTCCCA
+HWI-EAS443:3:86:72:1291#0/1
^Zbbbbbb`_]a`aa_a_aaaa_bba^ab`_____aaa_
@HWI-EAS443:3:86:81:532#0/1
ACGGTTATCACCATCAAATGAGCAGGGGTCAGGATATGC

+HWI-EAS443:3:86:81:532#0/1
aa_¥_`a`_a`[¥_¥S`¥Z^^`][XJMRP_¥¥^FQ¥
@HWI-EAS443:3:86:820:1870#0/1
AGCAAATCCTACATTAATGATAAAGGGAAAGAAGTCCTCG
+HWI-EAS443:3:86:820:1870#0/1
a`bbaaabaaaaaaa]`aaa`a`_aab`aa_^_____
@HWI-EAS443:3:86:843:1199#0/1
CCCAATCATGACTCGAACAAAGGTGTAACGGCAGCATGTC
+HWI-EAS443:3:86:843:1199#0/1
`b`^^baa_a`^[abbbb]`¥S^^aaaa_a^X_¥VBB
@HWI-EAS443:3:86:846:735#0/1
GCTGGCTGGATCCTGGGAAATCCAGAGTGTGAATCACTCT
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@HWI-EAS443:3:86:876:654#0/1
GGGGACATCAAGATACAGCAAGAAGTTCAAGCCGGAAATA
+HWI-EAS443:3:86:876:654#0/1
Yabbbabb]bb`aa``]Xab^]Ja_aaa_^aXab`[^aa
@HWI-EAS443:3:86:928:1328#0/1
GGGCCATGAACCTTGTCTTGGGGAATATCTCAAACCTTTCA
+HWI-EAS443:3:86:928:1328#0/1
abaaaa[baU^`^a¥b]_X_aU]baa^`aaYaMK]`V^
@HWI-EAS443:3:86:949:1209#0/1
GTTACCCAGGAGATTTTCATCGATTATGAGGAGCTAAGAGA
+HWI-EAS443:3:86:949:1209#0/1
TZZ¥`a_^]I]]`bb^XTZ^]S_¥]X^VWVQXMHW[]]aS
@HWI-EAS443:3:86:968:279#0/1
GTTGGTCAGCACTAGTAGATGGATGGTGAATGCCCCATAG
+HWI-EAS443:3:86:968:279#0/1
^_``_T`b[Uvb^babb^a`^XabaWa[``^MFZ]aa]¥
@HWI-EAS443:3:87:1073:1216#0/1
AAGTCCTCGTGCTATGGGGCATTACCATCCATCTACTAG
+HWI-EAS443:3:87:1073:1216#0/1
aaaaaaa_a`aZa`aa¥[]aaaa`__a_a_____a_`a
@HWI-EAS443:3:87:1088:332#0/1
ACTAGATTTCCAGTTGCTTCGAATGTTATTTTGTCTCCCG
+HWI-EAS443:3:87:1088:332#0/1
aaaabaabb`_aa^aaaa_]¥_aa^`a`a`_____]_X^
@HWI-EAS443:3:87:108:908#0/1
GATCTATTCAACTGTCGCCAGTTCATTGGTACTGGTAGTC
+HWI-EAS443:3:87:108:908#0/1
aa]¥^aa``a_U^`_]_NK`VZVYa^W[S__][Y]U¥POK
@HWI-EAS443:3:87:1116:715#0/1
CTCATAATCGATGAAATCTCCTGGGTAACACGTTCCATTG
+HWI-EAS443:3:87:1116:715#0/1
abaabbbbabababaabaaaa`a`aaaa`a`¥aa`a
@HWI-EAS443:3:87:1164:261#0/1
GTCAGCACTAGTAGATGGATGGTGAATGCCCCATAGCACG
+HWI-EAS443:3:87:1164:261#0/1
aa]aa`a^a`a_`b_aaa^aaa^aaaaaY]X]a^_a]_Wa

@HWI-EAS443:3:87:1187:1681#0/1
GACAAAATAACATTCTGAAGCAACTGGAAATCTAGTGGTAC
+HWI-EAS443:3:87:1187:1681#0/1
aa_bbbbbbbbaaaabbaaaaaaab_aaab`aaa]a`]aa
@HWI-EAS443:3:87:1191:906#0/1
AAATAACATTCTGAAGCAACTGGAAATCTAGTGGTACCGAG
+HWI-EAS443:3:87:1191:906#0/1
aaabba_bab¥a_```a`Zaa`_aaaXa`a^`Y[a^¥a`a
@HWI-EAS443:3:87:1197:1095#0/1
ATCAAGATACAGCAAGAAGTTCAAGCCGAAATAGCAATA
+HWI-EAS443:3:87:1197:1095#0/1
`baa`^aaa_b`abbaaaa`_baaT]aa`_^a`_^aa_a
@HWI-EAS443:3:87:1258:1845#0/1
AAGCTCAGCAAATCCTACATTAATGATAAAGGAAAGAAG
+HWI-EAS443:3:87:1258:1845#0/1
aa_aa¥]a`a_^_^]_¥``aaa_X_[__Z`S^[_^^^N
@HWI-EAS443:3:87:1259:637#0/1
TCTTGCTGTATCTTGATGTCCCCACAAAAACATATGCATC
+HWI-EAS443:3:87:1259:637#0/1
aaaa_ab_ba_aa`aaa_a_^]`_`a`_a]_a`_____`_`
@HWI-EAS443:3:87:126:73#0/1
GGGGGGTGGACAGGGATGGTAGATGGATGGTACGGTTATC
+HWI-EAS443:3:87:126:73#0/1
aa^¥a`S¥YWST¥__QZU^RV_WVW^WVZXWVUWSVSKB
@HWI-EAS443:3:87:1337:1267#0/1
AACAAAGTCTCTATCAGAATGCAGATGCATATGTTTTTGT
+HWI-EAS443:3:87:1337:1267#0/1
aaaWXaTabVa``abbaaa]^]a`Sa_a_aab`aa_[aU
@HWI-EAS443:3:87:1348:548#0/1
GGGACATCAAGATACAGCAAGAAGTTCAAGCCGAAATAG
+HWI-EAS443:3:87:1348:548#0/1
abaaabaaaa^`aabb`abaa_b]aaa`bU`a`_a`aaa
@HWI-EAS443:3:87:1361:1552#0/1
AGACAAAATAACATTCTGAAGCAACTGGAAATCTAGTGGTA
+HWI-EAS443:3:87:1361:1552#0/1
ab_`babbbba``ba`ba```a`abba`aaa]ba[XYa_b
@HWI-EAS443:3:87:1363:163#0/1
ATCGATTATGAGGAGCTAAGAGAGCAATTGAGCTCAGTGT
+HWI-EAS443:3:87:1363:163#0/1
a^W¥abbbba`V`[Z`^abaaa`Y`Ya^__`_XLZ¥Y`U`Z
@HWI-EAS443:3:87:1397:475#0/1
CTGCCGTTACACCTTTGTTGAGTCATGATTGGCCATGA
+HWI-EAS443:3:87:1397:475#0/1
abaUG_bbabb`ababbbbaabaa`bbb`ba[bb_aabba
@HWI-EAS443:3:87:1397:821#0/1
GGGTGTCTGACAAGTTGTATTGCAATCGTGGACTGGTGTA
+HWI-EAS443:3:87:1397:821#0/1
a`¥G`b[`bbY]Ub`abaab^ba`bbUbTb^WSa]a^]Wb
@HWI-EAS443:3:87:1437:1393#0/1
TAGAGACCCATTAGAGCACATCCAGAAACTGATTGCCCCC

+HWI-EAS443:3:87:1437:1393#0/1
abb`a_`a_aaa]aaaaa`b_]aaaaa¥aa_`_aTYTV^
@HWI-EAS443:3:87:1458:398#0/1
GCTGGATCCTGGGAAATCCAGAGTGTGAATCACTCTCCAC
+HWI-EAS443:3:87:1458:398#0/1
a`aa`SaVV^_a_W`¥^TF[_]aW_W^^V`¥¥¥SZQS¥W
@HWI-EAS443:3:87:1463:702#0/1
AGCCAGTTAAAAACAATGCCAAGGAAATTGGAAACGGCT
+HWI-EAS443:3:87:1463:702#0/1
_]SMSZXa`¥W^`X[`a[^UFUZaX[UX¥^QL[``Wa_Ga
@HWI-EAS443:3:87:151:1644#0/1
AATCGATGAAATCTCCTGGGTAACACGTTCCATTGTCTGA
+HWI-EAS443:3:87:151:1644#0/1
Y_`aa^aa_a^aaaa^¥a¥¥Y`__a^[[[a____]_]^_¥[
@HWI-EAS443:3:87:1527:1506#0/1
GAACGTGTTACCCAGGAGATTTTCATCGATTATGAGGAGCT
+HWI-EAS443:3:87:1527:1506#0/1
aba`a`aa[baaaa`]baaabaYaa``aababa`ab`a]a
@HWI-EAS443:3:87:1527:175#0/1
TCTTCAGGTCGGCTGCATATCCTGACCCCTGCTCATTTTG
+HWI-EAS443:3:87:1527:175#0/1
a`aa_`_]^aa¥_`¥U^`a¥^`[^YQVR[[T_W^¥^¥[Q
@HWI-EAS443:3:87:1536:208#0/1
TGCCGGTTTCATTGAAGGGGGTGGACAGGGATGGTAGAT
+HWI-EAS443:3:87:1536:208#0/1
H¥UFZVVbb^bbbbVTa[a¥SaZ_X¥FV_bb^a`a¥_`^¥
@HWI-EAS443:3:87:1548:607#0/1
TGGACATTTGGACTTACAATGCCGAAGTTGGTTCTATT
+HWI-EAS443:3:87:1548:607#0/1
`b`VG¥abb^PPaaaaaWWba`]a_XUb^`]UaU_^_^`
@HWI-EAS443:3:87:1616:1632#0/1
GGTGTTTATAGCACCCCTGGGTGTCTGACAAGTTGTATTG
+HWI-EAS443:3:87:1616:1632#0/1
aa[a`bbaaa`]a_`]aa`_aYa__a`^Xa]__`]a]`
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CCTCTGAGTATTTTGGGTAGTCATAAGTCCCATTTTGGAC
+HWI-EAS443:3:87:1666:1469#0/1
Y¥_X`b`abb`K_baba_X``baab_aaba_bbbababbbb
@HWI-EAS443:3:87:1686:800#0/1
GCTGGATCCTGGGAAATCCAGAGTGTGAATCACTCTCCAC
+HWI-EAS443:3:87:1686:800#0/1
aa]RW`a¥^aX^¥a`a]N^a^b¥_`aa`aT]^_¥^XU_¥
@HWI-EAS443:3:87:1703:220#0/1
TCCGGCTTGAACCTTCTTGCTGTATCTTGATGTCCCCACAA
+HWI-EAS443:3:87:1703:220#0/1
a`[a_W`a¥`aP`Zaa`U`a__aTa`[]`¥UZTSP]W¥_
@HWI-EAS443:3:87:1771:1618#0/1
GTCAGGATATGCAGCCGACCTGAAGAGCACACAGAATGCC
+HWI-EAS443:3:87:1771:1618#0/1
aZH_a__a^`a¥Y`^^_WHI^_XV¥U`V]R^VXYX^VXX

@HWI-EAS443:3:87:197:987#0/1
GCTGGCTGGATCCTGGGAAATCCAGAGTGTGAATCACTCT
+HWI-EAS443:3:87:197:987#0/1
aba`aa`^ba`]aY`aa`a^_a¥[[^U_U^^X^^_¥¥^U
@HWI-EAS443:3:87:206:1525#0/1
GTCTGACAAGTTGTATTGCAATCGTGGACTGGTGTATCTG
+HWI-EAS443:3:87:206:1525#0/1
^I¥b[Z`Y`_R____`a]aaaV¥aaY[¥¥_[__YaNXV_]`
@HWI-EAS443:3:87:211:1318#0/1
CCTCTGAGTATTTTGGGTAGTCATAAGTCCCATTTTGTGAC
+HWI-EAS443:3:87:211:1318#0/1
_aSaa__a`¥]_Y`__^L_¥Wq]X^`^0^^_P¥X`X`^]`
@HWI-EAS443:3:87:252:1636#0/1
GAGCTTGCTGTGGAGAGTGATTCACACTCTGGATTTCCCA
+HWI-EAS443:3:87:252:1636#0/1
ab_bab^aaa`aaaZ]UZVW``aa_a_`a^[_]`^_`^a
@HWI-EAS443:3:87:267:1048#0/1
CCGTTACACCTTTGTTTCGAGTCATGATTGGCCATGAACT
+HWI-EAS443:3:87:267:1048#0/1
aab_aaaaaaaaa^`a`R`aaa^`_`¥`YWP_`^^X_
@HWI-EAS443:3:87:281:556#0/1
GAACTTTGGACTACCACGATTCAAATGTGAAGAACTTATA
+HWI-EAS443:3:87:281:556#0/1
`aaabaa`aaabaaaaabaa`aa^aaa[b_a_a_aaaaa
@HWI-EAS443:3:87:309:905#0/1
AGAAGTCCTCGTGCTATGGGGCATTACCATCCATCTACT
+HWI-EAS443:3:87:309:905#0/1
aaaaa¥`aaaaZ^`a`_`[Z_^`a`¥`_Za_____^_]`W_
@HWI-EAS443:3:87:338:1133#0/1
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+HWI-EAS443:3:87:338:1133#0/1
a`aaa]_aaaa`_]^__a`_ZYS`[¥_^__`_^Z]Z_^]`^
@HWI-EAS443:3:87:396:1916#0/1
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aaYY^`_[a[aa___Q_¥YOKH¥a]aa]`b`_`¥XaY_`[`
@HWI-EAS443:3:87:404:212#0/1
ATCAGAATGCAGATGCATATGTTTTTGTGGGGACATCAAG
+HWI-EAS443:3:87:404:212#0/1
¥¥baX`aabWbbbU_a¥aab`bbbb_[]ab__`]_^a_`^`
@HWI-EAS443:3:87:438:1119#0/1
GGAGCTAAGAGAGCAATTGAGCTCAGTGCATCATTGAA
+HWI-EAS443:3:87:438:1119#0/1
abaaaabbbaaa_aaaba`aaaa`aa_]a]_```aaaaa`_
@HWI-EAS443:3:87:439:1886#0/1
GCTGCTTTGAATTTTACCACAAATGCGATAACACGTGCAT
+HWI-EAS443:3:87:439:1886#0/1
a¥XZFTX]]_]Y_X`_`a]¥YV¥^¥a]¥SFYR]YWQX[[¥
@HWI-EAS443:3:87:440:1542#0/1
CACGTGTTATCGCATTTGTGGTAAAATTCAAAGCAGCCGT

+HWI-EAS443:3:87:440:1542#0/1
aaaa]a_aba`aa_abab^`Z¥bbaaa`aba` `aa[aaa]
@HWI-EAS443:3:87:449:1597#0/1
CTTCCTCTGAGTATTTTGGGTAGTCATAAGTCCCATTTTT
+HWI-EAS443:3:87:449:1597#0/1
abaaab_b`b_]ababaY__Ta`^aaaaa` [`aY`aaa`a
@HWI-EAS443:3:87:44:507#0/1
TGTGGGGACATCAAGATACAGCAAGAAGTTCAAGCCGGAA
+HWI-EAS443:3:87:44:507#0/1
¥[R[YH^`_`_`_¥¥W`bbab¥Wab]`_SW_`Xa^Z`¥T]
@HWI-EAS443:3:87:511:1336#0/1
GCTTCCTCTGAGTATTTTGGGTAGTCATAAGTCCCATTTTT
+HWI-EAS443:3:87:511:1336#0/1
aa`^^_¥¥aa]]S` `^)`aVQV]RW¥`^_R¥P_a[^a^a_X
@HWI-EAS443:3:87:538:1223#0/1
CTGGTGTATAGCACCTTGGGTGTCTGACAAGTTGTAT
+HWI-EAS443:3:87:538:1223#0/1
aab_[[ZaXaaa` `aa]aa_^XZV` `a`]J_`_`_`^a[a`
@HWI-EAS443:3:87:594:1165#0/1
TGGGGACATCAAGATACAGCAAGAAGTTCAAGCCGGAAAT
+HWI-EAS443:3:87:594:1165#0/1
a]aabbababbabaaa`baaabbaYaZ^aa[_a_a`_` `a
@HWI-EAS443:3:87:625:921#0/1
GTCCTCGTGCTATGGGGCATTACCATCCATCTACTAGTG
+HWI-EAS443:3:87:625:921#0/1
a^¥^`_`_`_W`_`_`_`[Z`Z`_`¥]_Za`W¥^¥¥¥_ZU^YW^Y`W_
@HWI-EAS443:3:87:639:1957#0/1
TGGGGACATCAAGATACAGCAAGAAGTTCAAGCCGGAAAT
+HWI-EAS443:3:87:639:1957#0/1
aa`^` `aaaabbabaaabaaabbaaa[^a^aaa` ` `a` `]
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+HWI-EAS443:3:87:662:1358#0/1
aaa]abaa]a[ZZ^a`]aaaabba_aaaaaaaa¥`_`_`_`aa
@HWI-EAS443:3:87:691:1710#0/1
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+HWI-EAS443:3:87:691:1710#0/1
`ba^UaU`a^Q_b[``Z^L`][aaaaaT_S_`_`_`_`ZP[
@HWI-EAS443:3:87:714:419#0/1
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aaabaaabaabaaaaabbaabba]b_aaaaaX_aa_`aaa
@HWI-EAS443:3:87:723:1793#0/1
CTTCTCTGTTTAATTTTGGTTCCTCTGAGTATTTTGGGTA
+HWI-EAS443:3:87:723:1793#0/1
abbbabba_bbb`aabbbbbbbbbbaaa_baaaaaaa]b
@HWI-EAS443:3:87:731:178#0/1
CAAGATACAGCAAGAAGTTCAAGCCGGAAATAGCAATAAG
+HWI-EAS443:3:87:731:178#0/1
ababaababaaabbbbaa_aaa`b_aaa_aa_a`aaa`a]`

@HWI-EAS443:3:87:743:182#0/1
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+HWI-EAS443:3:87:743:182#0/1
UY¥aV¥`Z`aaa_Zaaaaa]V¥`aaZ_Q¥``]UN]P^__
@HWI-EAS443:3:87:768:843#0/1
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+HWI-EAS443:3:87:768:843#0/1
¥abbbb]bb[bb]]ba`V`bba[]abbbbbba^R¥_a_a
@HWI-EAS443:3:87:807:306#0/1
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+HWI-EAS443:3:87:807:306#0/1
]a[YUT`bb`b_¥¥aV`b]X¥X`YR[Q[SXG[X_a[[[[U
@HWI-EAS443:3:87:863:273#0/1
CATCATTTGAAAGTTTGAGATATCCCCAAGACAAGTTC
+HWI-EAS443:3:87:863:273#0/1
_aa_a[Zbbb`bb[`abaaaa`a^`aaaaaa`[]_`__
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+HWI-EAS443:3:87:881:1066#0/1
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@HWI-EAS443:3:87:90:975#0/1
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+HWI-EAS443:3:87:90:975#0/1
]LZYaab^a¥aaa^a`a¥`]_^Z^]a_`_aa]^`YWS]^
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CCACGATTCAAATGTGAAGAACTTATATGAAAAGGTAAGA
+HWI-EAS443:3:87:912:373#0/1
abbab_b]b^`abb^ba`baa_babbbbb`a`^^`^a`ab
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+HWI-EAS443:3:87:916:318#0/1
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@HWI-EAS443:3:87:995:606#0/1
GGGACATCAAGATACAGCAAGAAGTTCAAGCCGAAATAG
+HWI-EAS443:3:87:995:606#0/1
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@HWI-EAS443:3:88:1007:1281#0/1
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+HWI-EAS443:3:88:1007:1281#0/1
`bbaa^__aaa¥^ZaababbUa`abaaa_aRUaa`__`a]
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GTGGGACATCAAGATACAGCAAGAAGTTCAAGCCGAAA
+HWI-EAS443:3:88:1016:1027#0/1
a¥^`]`[[[aaR`_____a`aQ`_aaY`aV[____a[W^a`]a
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+HWI-EAS443:3:88:1052:406#0/1
abaab`abbaaaaa`bb]a^aaaaabaaaa`aaaZaaaa
@HWI-EAS443:3:88:1065:1454#0/1
GGGCCATGAACCTTGTCTTGGGAATATCTCAAACCTTCA

+HWI-EAS443:3:88:1065:1454#0/1
ab]_IaUa_UaaaaU_^[\^__a^^a¥^¥__`__]V_^__`
@HWI-EAS443:3:88:1103:271#0/1
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+HWI-EAS443:3:88:1103:271#0/1
a`a¥`¥]^`^`^`_aa^`X_]^b^U^YZ_X^U`ZaZ`^a[`
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+HWI-EAS443:3:88:1111:1206#0/1
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@HWI-EAS443:3:88:1124:1948#0/1
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+HWI-EAS443:3:88:1124:1948#0/1
^bbbaa_bbb^bbbababbbabbabb`babab_bba[aab
@HWI-EAS443:3:88:112:1277#0/1
CACTTTCCATGCACGTGTTATCGCATTGTGGTAAAATTC
+HWI-EAS443:3:88:112:1277#0/1
_]`^a_Z¥`^`_Z_aa_aRVaa`Yaa`[a___¥^T_]__X
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GCAACTGGAAATCTAGTGGTACCGAGATATGCATTTCGCAA
+HWI-EAS443:3:88:1171:843#0/1
aH^aW_baa^R_Y[a_X¥SLa`]]aa___a_]aa`^a^_^
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+HWI-EAS443:3:88:1196:59#0/1
aa`bbbbbb`abaaab^b`b`ab_a_[baa[a¥`a^aa`aa
@HWI-EAS443:3:88:1203:320#0/1
GACCAACAAAGTCTCTATCAGAATGCAGATGCATATGTTT
+HWI-EAS443:3:88:1203:320#0/1
aa[^bb^bbab_^b^`aaYbbbaaab_aa`_b_aaaab]aa
@HWI-EAS443:3:88:1257:900#0/1
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+HWI-EAS443:3:88:1257:900#0/1
ab¥Wa)`^b`_]_a][aaa___a__aWa`^`_]W]WaR_Z_
@HWI-EAS443:3:88:1305:1395#0/1
GCTGCTTTGAATTTTACCACAAATGCGATAACACGTGCAT
+HWI-EAS443:3:88:1305:1395#0/1
abaa`aaaaaaabaa_aa`aa`aa^aa`^`^aaa]a`^`_
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+HWI-EAS443:3:88:1314:861#0/1
aabbbbbbbbab`b^aabbaaab`aaaaaa`baaaaa[a
@HWI-EAS443:3:88:1350:267#0/1
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+HWI-EAS443:3:88:1350:267#0/1
a`ba_abbabbaab^abbaaa`_`a`a`aaa_a_a`aaaa
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+HWI-EAS443:3:88:1372:1843#0/1
`bab`_`bbbaababab`aa¥N`_babbKbbabKb_a[_]

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+HWI-EAS443:3:88:1417:1491#0/1
aaa_``abaaZaa`a_a`R`aaSa^Q_a^Zaa^aa¥aa_
@HWI-EAS443:3:88:1433:338#0/1
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+HWI-EAS443:3:88:1433:338#0/1
aabaYaa`_aaa__a^aaaa[`a_`S¥[¥aXR`[_a^_X
@HWI-EAS443:3:88:145:495#0/1
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+HWI-EAS443:3:88:145:495#0/1
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+HWI-EAS443:3:88:1496:174#0/1
aa]aUa`abbaaab_ab]abaaaaYa[aaW_a`W`]¥a
@HWI-EAS443:3:88:1550:452#0/1
GGGACATCAAGATACAGCAAGAAGTTCAAGCCGAAATAG
+HWI-EAS443:3:88:1550:452#0/1
a`]^_`a_aaaa_a^`a^aaaa_`_`0a^a^^a__^_]`a
@HWI-EAS443:3:88:1629:1303#0/1
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+HWI-EAS443:3:88:1629:1303#0/1
`a[aY`Yb``][``_`^aaa]`^^a_[US`____`S[[U^`
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AGGAAATTGGAAACGGCTGCTTTGAATTTTACCACAAATG
+HWI-EAS443:3:88:168:789#0/1
^^^Saba`_¥[_]_aaa`^TTY]QJP[X_[[WZVPYQYKP
@HWI-EAS443:3:88:1732:824#0/1
ATATGTTTTTGTGGGACATCAAGATACAGCAAGAAGTTC
+HWI-EAS443:3:88:1732:824#0/1
abbbbbbb`aaabbaaa[abbababb^aa`````a^
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+HWI-EAS443:3:88:1756:57#0/1
ababaab^b_a`aa`]aa_¥_a`aa`^`^a^a_]`__a_
@HWI-EAS443:3:88:1772:167#0/1
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+HWI-EAS443:3:88:1772:167#0/1
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+HWI-EAS443:3:88:190:888#0/1
aHa_abW_R¥a`a`V]]a^]]_VTT]^WF^Y¥¥XZUYP^L
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+HWI-EAS443:3:88:24:1177#0/1
aaaaaaa]]aaaa_a`¥]`aab`^`_`[SM_`a_aaZYZ
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+HWI-EAS443:3:88:250:1335#0/1
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@HWI-EAS443:3:88:276:138#0/1
TAGATTTCCAGTTGCTTCGAATGTTATTTTGTCTCCCGGC
+HWI-EAS443:3:88:276:138#0/1
aaa¥aaa`a`a_aaaaaa__`a^a____`_^Z]^^X_^^^
@HWI-EAS443:3:88:315:1860#0/1
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+HWI-EAS443:3:88:315:1860#0/1
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@HWI-EAS443:3:88:319:1538#0/1
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+HWI-EAS443:3:88:319:1538#0/1
_abWbbba`X`[b¥`Yabb^bb`¥[R¥aa]aaaa^TL]b
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+HWI-EAS443:3:88:358:1299#0/1
aa¥_bbab_]ba]_aba¥a^]OH`N`ZRU[a[a_Vaa_`
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+HWI-EAS443:3:88:361:1085#0/1
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GGGACATCAAGATACAGCAAGAAGTTCAAGCCGGAAATA
+HWI-EAS443:3:88:428:866#0/1
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@HWI-EAS443:3:88:42:249#0/1
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+HWI-EAS443:3:88:42:249#0/1
aSG]¥`_`[[a[____`Z^`¥ZW^^Z¥¥RUT[¥BBBBBBBBB
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+HWI-EAS443:3:88:522:1587#0/1
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+HWI-EAS443:3:88:529:847#0/1
^XQ_XUZZ^T¥YZ_WZUY_a_ZZa`_`X][[W[W[O[R[Y
@HWI-EAS443:3:88:551:1677#0/1
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+HWI-EAS443:3:88:551:1677#0/1
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+HWI-EAS443:3:88:561:288#0/1
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+HWI-EAS443:3:88:661:1435#0/1
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+HWI-EAS443:3:88:69:1805#0/1
aaaa`¥a__`_W]`¥`W¥Y¥S_Z_¥`a`X`YQ¥^¥UW_^T
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GAAGTCCTCGTGCTATGGGGCATTACCATCCATCTACTA
+HWI-EAS443:3:88:716:1363#0/1
aa`^¥_baba¥_^aa[ZXUDYabbaaa^ba`a___bb`a`
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@HWI-EAS443:3:88:71:340#0/1
CTCCCATTTTCAGAATATACATCCGATCACAATTGGAAAAT
+HWI-EAS443:3:88:71:340#0/1
Q_a`_]`_a`^a`^a`_T_Zba`aZ^a`^aW]`_]¥`¥
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@HWI-EAS443:3:88:849:388#0/1
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+HWI-EAS443:3:88:849:388#0/1
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@HWI-EAS443:3:88:850:253#0/1
TGACAAGTTGTATTGCAATCGTGGACTGGTGTATCTGAAA
+HWI-EAS443:3:88:850:253#0/1
aba¥abbaabaa_abaaab`b]_aa_aaX_aYaaaaaa]`
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+HWI-EAS443:3:88:853:1823#0/1
_¥]bT`a_QWK_]aaZa`_XU[]Y`P[GSQO^^X[`]UZ
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CTTCCTCTGAGTATTTTGGGTAGTCATAAGTCCCATTTTT
+HWI-EAS443:3:88:865:1194#0/1
abbaa`^b`S_J_^¥`]abbZb`^^`b`b`]RY^`b]ZY[
@HWI-EAS443:3:88:878:202#0/1
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+HWI-EAS443:3:88:878:202#0/1
``bbb]a^bbbaWZ_]Zbbba_Z^a`aaa`[]Z]a`]YVa
@HWI-EAS443:3:88:930:55#0/1
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+HWI-EAS443:3:88:930:55#0/1
[]a^ZXa^H¥`ba^^aQ]^`aYJ]G_¥V¥OY^¥X^UP
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+HWI-EAS443:3:88:940:641#0/1
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@HWI-EAS443:3:88:971:1232#0/1
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+HWI-EAS443:3:88:971:1232#0/1
`b`a`b`a`aaa]``ab]ab_^a_aa_aaaba]^a¥aa`a
@HWI-EAS443:3:88:972:265#0/1
CTCTTTACTACTGCTGTGAAGTGTATTTCATCTTTTCA
+HWI-EAS443:3:88:972:265#0/1
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@HWI-EAS443:3:88:979:1398#0/1
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+HWI-EAS443:3:88:979:1398#0/1
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@HWI-EAS443:3:88:987:76#0/1
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+HWI-EAS443:3:88:987:76#0/1
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+HWI-EAS443:3:88:98:1450#0/1
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+HWI-EAS443:3:89:1024:1010#0/1
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@HWI-EAS443:3:89:1060:1834#0/1
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+HWI-EAS443:3:89:1060:1834#0/1
aaa`_bb_aa`a` `[MZaaaab_[L`aZ¥ZaaaYT__U_]`
@HWI-EAS443:3:89:1065:566#0/1
GAAGCCAGTTAAAAACAATGCCAAGGAAATTGGAAACGG
+HWI-EAS443:3:89:1065:566#0/1
a`aaaabbaba`aaaa`aaaa`_aaa`````_a_`^a```
@HWI-EAS443:3:89:1124:823#0/1
CGGCTTGAACCTTCTTGCTGTATCTTGATGTCCCCACAAAA
+HWI-EAS443:3:89:1124:823#0/1
¥`aa`_Q¥¥[__a_¥T]_¥Q_^[[`[_Y¥V]_V¥`aa`b
@HWI-EAS443:3:89:1125:951#0/1
AGCTTTTTGCTCCAGCATGAGGACATGCTGCCGTTACACC
+HWI-EAS443:3:89:1125:951#0/1
aababbabaabaabbbbbbbabba_baaaaa``a`^``_]`
@HWI-EAS443:3:89:1142:1367#0/1
GCTAGTTAAAAAAGGAAATTCATACCCAAAGCTCAGCAAA
+HWI-EAS443:3:89:1142:1367#0/1
]aa^_¥T^^a`_bb`¥XZ`b_``a`U^_abaa^]aaa`a
@HWI-EAS443:3:89:1151:522#0/1
AAAACAATGCCAAGGAAATTGGAAACGGCTGCTTTGAATT
+HWI-EAS443:3:89:1151:522#0/1
abaa_ababb¥`bbabaaab^]_a`a`]_]FOVYMDMV^

@HWI-EAS443:3:89:1165:822#0/1
CCGGCTCTACTAGTGTCCAGTAATAGTTCATTCTCCCTTC
+HWI-EAS443:3:89:1165:822#0/1
``^`bbba¥`b___a_`aabaabaa^ababb`a``aaab`
@HWI-EAS443:3:89:1186:98#0/1
TGCATTCTGATAGAGACTTTGTTGGTCAGCACTAGTAGAT
+HWI-EAS443:3:89:1186:98#0/1
abYaaaaabaaTa`aa]aaaa]a_`ZU^]QUL[_Y^aW_
@HWI-EAS443:3:89:1216:394#0/1
CAGAATTTACTTTGTTAGTAATCTCGTCAATGGCATTCTG
+HWI-EAS443:3:89:1216:394#0/1
Z¥` `b_¥abb_`bbbbabZZbbabbbab`[]` `aaa_bb
@HWI-EAS443:3:89:122:1359#0/1
ATTTTCAGAATATACATCCGATCACAATTGGAAAATGTCCA
+HWI-EAS443:3:89:122:1359#0/1
aaaa`a_`^a`a_]_`a` `aa^_`¥Z___]_`^W[`][][_`
@HWI-EAS443:3:89:1283:926#0/1
ATTTTGGGTAGTCATAAGTCCCATTTTTGACACTTTCCAT
+HWI-EAS443:3:89:1283:926#0/1
^bbbab¥bUbaX¥]a¥_`¥Y^aWababba_`[a^aaa_`^`_
@HWI-EAS443:3:89:1304:1298#0/1
CGGCTCTACTAGTGTCCAGTAATAGTTCATTCTCCCTTCT
+HWI-EAS443:3:89:1304:1298#0/1
a_aaba` `^a_]` `aaa_aYaaa`_]_a`a`a^aZ_`^_a]_
@HWI-EAS443:3:89:1342:1178#0/1
GCTGGCTGGATCCTGGGAAATCCAGAGTGTGAATCACTCT
+HWI-EAS443:3:89:1342:1178#0/1
_aaa`aaaaaa`aa¥aaa_a]Xa` ` `a[_[]Va¥Z` [¥U^
@HWI-EAS443:3:89:1390:205#0/1
GCTGCTTTGAATTTTACCACAAATGCGATAACACGTGCAT
+HWI-EAS443:3:89:1390:205#0/1
a`_a]_a` `__`^` `a`]^`^_Y^_]aV[^`^ZW_V_Z_U]]
@HWI-EAS443:3:89:1408:833#0/1
AAATTTTTGTAGAAGCTTTTTGCTCCAGCATGAGGACATG
+HWI-EAS443:3:89:1408:833#0/1
¥L¥a]a_b¥Y]UZXPaa]_aa[[LR]^USW`]aaXI]YX
@HWI-EAS443:3:89:1444:1568#0/1
ATTTTGGGTAGTCATAAGTCCCATTTTTGACACTTTCCAT
+HWI-EAS443:3:89:1444:1568#0/1
¥Xa¥ab`YM^bbX^ba` ` `]^`_baba_a_`^_bbaa_`_]_Z
@HWI-EAS443:3:89:1510:1729#0/1
CGTGTATCGCATTGTGGTAAAATTCAAAGCAGCCGTTT
+HWI-EAS443:3:89:1510:1729#0/1
^b`aabbaaa_a^¥aaab`_baVabaQ`bba_a_Y]a_`^`
@HWI-EAS443:3:89:153:1023#0/1
GCTGGCTGGATCCTGGGAAATCCAGAGTGTGAATCACTCT
+HWI-EAS443:3:89:153:1023#0/1
aa^`_aa`_VXN[TV`]V_a¥_a_`^Y^S]S^^^TT¥¥T[V
@HWI-EAS443:3:89:1555:1675#0/1
CATTCTGTGTGCTCTTCAGGTCGGCTGCATATCCTGACCC

+HWI-EAS443:3:89:1555:1675#0/1
`bbabaaabaaSaababbbaaababb`bbb`]a_ab__Z
@HWI-EAS443:3:89:1608:1040#0/1
TTTGCTTCCTCTGAGTATTTTGGGTAGTCATAAGTCCCAT
+HWI-EAS443:3:89:1608:1040#0/1
aba`a_b]`b^bbaa`abaaaabaW`_`¥`a^``¥[WY_`
@HWI-EAS443:3:89:160:167#0/1
AACTTGTCAGACACCCAAGGGTGCTATAAACACCAGCCTC
+HWI-EAS443:3:89:160:167#0/1
L[abab`abababaaa^aaaaTaa`]`aa`^_a^V`^^^_
@HWI-EAS443:3:89:1632:1959#0/1
CTCTTCAGGTCGGCTGCATATCCTGACCCCTGCTCATTTT
+HWI-EAS443:3:89:1632:1959#0/1
[a__bbbbbaVabb`bbbbbaabb]]]_aaaa]`baaa
@HWI-EAS443:3:89:1656:242#0/1
GGGGCATTACCATCCATCTACTAGTGCTGACCAACAAAG
+HWI-EAS443:3:89:1656:242#0/1
`baa^][aY]^^`^]_b0_`__^aV^U``_YYY]X^^Z_
@HWI-EAS443:3:89:1665:570#0/1
AAAATATGTAAAAAGCACAAAATTGAGACTGGCCACAGGA
+HWI-EAS443:3:89:1665:570#0/1
`bZa`baaR^bbaab`baba`ababaaa__aaZZ_0¥_`[
@HWI-EAS443:3:89:1666:123#0/1
TGAAGGGGGGTGGACAGGGATGGTAGATGGATGGTACGGT
+HWI-EAS443:3:89:1666:123#0/1
[^`_^aa`aa_`X`_HMZF0ba[R]Y[_`aX_a¥N_BBBB
@HWI-EAS443:3:89:1671:377#0/1
GCAGGGGTCAGGATATGCAGCCGACCTGAAGAGCACACAG
+HWI-EAS443:3:89:1671:377#0/1
a_abbba^abaaaaabaa`aa`^ba_Waa_ab^bZa``¥`_
@HWI-EAS443:3:89:182:1250#0/1
CTGGTGTATCTGAAATGATAATACCAGATCCAGCATTCT
+HWI-EAS443:3:89:182:1250#0/1
aaa`K`aaZ`abb`¥bbba`bb`babaabaab`^bbaa
@HWI-EAS443:3:89:210:881#0/1
ATTTGCTGAGCTTTGGGTATGAATTTCTTTTTTAACTAG
+HWI-EAS443:3:89:210:881#0/1
aaaaaaab_aabaaaa]`aa``aaaa`aaaa`_`_a^_
@HWI-EAS443:3:89:211:255#0/1
TGAAAAGGTAAGAAGCCAGTTAAAAACAATGCCAAGGAA
+HWI-EAS443:3:89:211:255#0/1
abaaaaaSSbaabaaa^aaaa]aaaaa_``]__Ya¥^_
@HWI-EAS443:3:89:255:621#0/1
CACGTGTTATCGCATTTGTGGTAAAATTCAAAGCAGCCGT
+HWI-EAS443:3:89:255:621#0/1
abbb_bbabbab_abbbb_ab_bbb`a``aa`a`aa]`a`
@HWI-EAS443:3:89:339:351#0/1
CTGGCTGGATCCTGGGAAATCCAGAGTGTGAATCACTCTC
+HWI-EAS443:3:89:339:351#0/1
a_[_`_b_bZaaZ_aR_Tab_^aaaUaV_Ra¥]XV`__aa_

@HWI-EAS443:3:89:373:807#0/1
ATAACATTCGAAGCAACTGGAAATCTAGTGGTACCGAGAT
+HWI-EAS443:3:89:373:807#0/1
a_a`a]`_baa_aa_`aab_a`aaaaaa]a^^aa_a`a`
@HWI-EAS443:3:89:374:175#0/1
TACGGTTATCACCATCAAAATGAGCAGGGGTCAGGATATG
+HWI-EAS443:3:89:374:175#0/1
aaaab^aa`aa[[`^¥_a`_a^_XX` `a_V]W_Y[¥`¥X
@HWI-EAS443:3:89:40:324#0/1
CAACTGGAAATCTAGTGGTACCGAGATATGCATTGCAAT
+HWI-EAS443:3:89:40:324#0/1
a_`aaaa_a_a` ``aZa`W`_`a`a`_`^a_a_^__^_Y_
@HWI-EAS443:3:89:512:1884#0/1
ATCGATGAAATCTCCTGGGTAACACGTTCCATTGTCTGAA
+HWI-EAS443:3:89:512:1884#0/1
WY]_R][^Q¥U]¥a^TH]]S_W¥ZWW^_] ^]J[_¥_¥HVZ
@HWI-EAS443:3:89:533:334#0/1
GGACTGGTGTATCTGAAATGATAATACCAGATCCAGCATT
+HWI-EAS443:3:89:533:334#0/1
`J]` `]ZKY`a` `aVU`^`^`__XW¥`a_Y[^Y[]_`_¥
@HWI-EAS443:3:89:559:369#0/1
GATGACACTGAGCTCAATTGCTCTCTTAGCTCCTCATAAT
+HWI-EAS443:3:89:559:369#0/1
W¥V`¥^]ab`Mabba[^a`__aababbab[[` `aa`ba`b
@HWI-EAS443:3:89:560:137#0/1
TTCTTGCTGTATCTTGATGTCCCCACAAAACATATGCAT
+HWI-EAS443:3:89:560:137#0/1
aaaaaaaaab`a` `aaa`_a_`a`]a` `¥^` `]`^`__W`_
@HWI-EAS443:3:89:563:1850#0/1
GCTGGCTGGATCCTGGGAAATCCAGAGTGTGAATCACTCT
+HWI-EAS443:3:89:563:1850#0/1
abbYQ_bb_VVYY_]_` `a`¥¥` `RWaZVQ^a]LZ^¥` ¥^
@HWI-EAS443:3:89:571:1228#0/1
TGCCGGTTTCATTGAAGGGGGTGGACAGGGATGGTAGAT
+HWI-EAS443:3:89:571:1228#0/1
a^abbaa`abb`a_¥__`aa`b^a`Y¥` `^`_aa`¥_aa^
@HWI-EAS443:3:89:578:319#0/1
GGGGGGTGGACAGGGATGGTAGATGGATGGTACGGTTATC
+HWI-EAS443:3:89:578:319#0/1
aaaa` `Vaa`a`aa`[^aaW]aY[a[___`ZK[___[V¥[NL
@HWI-EAS443:3:89:589:602#0/1
GCTGGATCCTGGGAAATCCAGAGTGTGAATCACTCTCCAC
+HWI-EAS443:3:89:589:602#0/1
`aaba`bbba_a`^aaa`aabaa_a¥aa`__a`a` `]_a_
@HWI-EAS443:3:89:597:808#0/1
TAAGAAGCCAGTTAAAAACAATGCCAAGGAAATTGGAAA
+HWI-EAS443:3:89:597:808#0/1
aaa` `aa`a_a`__`__a` `a`__^a`_`^^`_`^Z^_
@HWI-EAS443:3:89:612:732#0/1
ATCATTGAAAGGTTTGGAGATATTCCCCAAGACAAGTTCA

+HWI-EAS443:3:89:612:732#0/1
_`a[Za^aSWQWUIXP¥a_WII^ba¥_`UR_`^_UZZ¥SY
@HWI-EAS443:3:89:625:1985#0/1
AAATGAGCAGGGGTCAGGATATGCAGCCGACCTGAAGAGC
+HWI-EAS443:3:89:625:1985#0/1
a_`aabbbabab`_bbaaaaa`aaa_aa`aaaaaa_aa
@HWI-EAS443:3:89:688:448#0/1
TGCCGGTTTCATTGAAGGGGGGTGGACAGGGATGGTAGAT
+HWI-EAS443:3:89:688:448#0/1
abababaabaabba_ab`bbaa`aaaaaaaaabb_Waaaa
@HWI-EAS443:3:89:762:164#0/1
CAGGGAGACTACAGTACCAATGAACTGGCGACAGTTGAA
+HWI-EAS443:3:89:762:164#0/1
aaa¥W_`aa[aQNN_Q^__``[baaabaRa_H]_[[QO]
@HWI-EAS443:3:89:769:627#0/1
GATGAAATCTCCTGGGTAACACGTTCCATTGTCTGAACTA
+HWI-EAS443:3:89:769:627#0/1
a`aR_]a`a``_a¥[TZ`X`X__[_^^_`^PZZ^Y^]]
@HWI-EAS443:3:89:797:1249#0/1
GGAGATTTTCATCGATTATGAGGAGCTAAGAGAGCAATTGA
+HWI-EAS443:3:89:797:1249#0/1
ab`YW_baS_aa_YZ`baaaa_]Z¥ZK^[]a`]WZ^^Tb[
@HWI-EAS443:3:89:896:1664#0/1
GCCGGTTTCATTGAAGGGGGGTGGACAGGGATGGTAGATG
+HWI-EAS443:3:89:896:1664#0/1
abb`¥X``[^`^ZJW[`_`]]`_]a^0_X¥a__NWa^^^`
@HWI-EAS443:3:89:898:686#0/1
CGGGAAACTATGCAAACAACTAAGAGGGGTAGCCCCATTGCAT
+HWI-EAS443:3:89:898:686#0/1
a`¥`X]_`bbb]a]aaaa¥aa_¥_¥a`Z`^]b_bTab
@HWI-EAS443:3:89:948:978#0/1
TGATGTCCCCACAAAAACATATGCATCTGCATTCTGATAG
+HWI-EAS443:3:89:948:978#0/1
`[aab_aaaaaaa^aaaa`aa_aa`a`_aaa]aaaa_
@HWI-EAS443:3:89:955:695#0/1
CGGGAAACTATGCAAACAACTAAGAGGGGTAGCCCCATTGCAT
+HWI-EAS443:3:89:955:695#0/1
`ba`bababb`aababab`b`abbaaa_b¥^_aa_bb_ab
@HWI-EAS443:3:89:973:1725#0/1
GCACGTGTTATCGCATTGTGGTAAAATTCAAAGCAGCCG
+HWI-EAS443:3:89:973:1725#0/1
abbbbaabbaababbbb_bbabbbabababab`aa_aa
@HWI-EAS443:3:8:1005:188#0/1
GTGGGACATCAAGATACAGCAAGAAGTTCAAGCCGGAAA
+HWI-EAS443:3:8:1005:188#0/1
a_aa¥X¥`X_WYN[YZYJT¥FV[RYFSX¥X^WQNQUBBBB
@HWI-EAS443:3:8:1015:440#0/1
CCCATTTTGGACACTTCCATGCACGTGTTATCGCATTG
+HWI-EAS443:3:8:1015:440#0/1
X^bbbbbbbabababbbababba_b`abbaab^a^`bbb]

@HWI-EAS443:3:8:1034:764#0/1
GTCTTATTGCTATTTCCGGCTTGAACCTTCTTGCTGTATCT
+HWI-EAS443:3:8:1034:764#0/1
aa¥a]b_`a]b___a^UaaSa[_]VUVPV__X]_V^UM[
@HWI-EAS443:3:8:1056:476#0/1
GCTGCTTTGAATTTTACCACAAATGCGATAACACGTGCAT
+HWI-EAS443:3:8:1056:476#0/1
aaa`¥`^¥XYV^a`WXZZ^W[^YT¥T[WY^XMVV]N_R]]
@HWI-EAS443:3:8:1059:583#0/1
ATCAGAATGCAGATGCATATGTTTTGTGGGGACATCAAG
+HWI-EAS443:3:8:1059:583#0/1
ab`baaaa``aaaaba^aaab__aa`a_b`_]_^___]____
@HWI-EAS443:3:8:1090:109#0/1
TTATATGAAAAGGTAAGAAGCCAGTTAAAAACAATGCCA
+HWI-EAS443:3:8:1090:109#0/1
S^`_¥^aa`¥a_aJaa]bbba¥bb`aababaa_a`aaTQZ
@HWI-EAS443:3:8:1101:476#0/1
ATCGATTATGAGGAGCTAAGAGAGCAATTGAGCTCAGTGT
+HWI-EAS443:3:8:1101:476#0/1
aaY`aab]bbabaabaaaa_a`_`__`ba]a`Z^]``Iaa
@HWI-EAS443:3:8:1108:692#0/1
GATGGTTTCCTGGACATTTGGACTTACAATGCCGAAGTGT
+HWI-EAS443:3:8:1108:692#0/1
a[^^^U```_a`^]]Z`a___¥^^^Z^]_^_YZX]Z^^Z
@HWI-EAS443:3:8:1126:1046#0/1
GCCGGTTTCATTGAAGGGGGTGGACAGGGATGGTAGATG
+HWI-EAS443:3:8:1126:1046#0/1
aabb`¥ba]`bab^_a`a^aaMa`^¥XaY[¥__^Z[[[P_
@HWI-EAS443:3:8:118:1863#0/1
CATCATTTGAAAGTTTGAGATATCCCCAAGACAAGTTC
+HWI-EAS443:3:8:118:1863#0/1
a`]`X`]ZP_a[_SZSSRaSaYaRHMW]_^X^^U_]YX¥[
@HWI-EAS443:3:8:1197:732#0/1
TTCTTGCTGTATCTTGATGTCCCCACAAAACATATGCAT
+HWI-EAS443:3:8:1197:732#0/1
Z[¥XX_^Y`U^P^^¥]¥Y_Sa^^`a_aa_X_V][[]S]L]_
@HWI-EAS443:3:8:1199:836#0/1
GGAAATTGAAACGGCTGCTTTGAATTTTACCACAAATGC
+HWI-EAS443:3:8:1199:836#0/1
`[^`_^_[[Z`¥RL[[VX]RJVUKHTLQZXNJPOBBBBBBB
@HWI-EAS443:3:8:1235:1326#0/1
CAATTGAAAATGTCCAAAATATGTA AAAAGCACAAAATT
+HWI-EAS443:3:8:1235:1326#0/1
a_aUV_```aaYa¥a`¥[__aabb```_`aaaY`¥_`[_a¥
@HWI-EAS443:3:8:1248:1308#0/1
ATTTTGCTTCTCTGAGTATTTTGGGTAGTCATAAGTCCC
+HWI-EAS443:3:8:1248:1308#0/1
aabbaa^aa]aa`ab`_¥abaaaa]`^aa`]aa`___N__
@HWI-EAS443:3:8:1277:1528#0/1
GGAGATTTTCATCGATTATGAGGAGCTAAGAGAGCAATTGA

+HWI-EAS443:3:8:1277:1528#0/1
YR¥aV_b[_`Y[baa¥aba__aaa]_]Yaaaaa]__W¥_^
@HWI-EAS443:3:8:1388:1893#0/1
AAAACATATGCATCTGCATTCTGATAGAGACTTTGTTGGT
+HWI-EAS443:3:8:1388:1893#0/1
ab`_a^^baaTa`W^a_`a]a__`a^`aSa```_aY_]`
@HWI-EAS443:3:8:1412:128#0/1
CTTCCTCTGAGTATTTTGGGTAGTCATAAGTCCCATTTTT
+HWI-EAS443:3:8:1412:128#0/1
a_^[a`Ybb`aZZ¥aZaaa_]__WXW[^`_`Y]W¥W]]]a^`
@HWI-EAS443:3:8:1415:961#0/1
CGGTACCACTAGATTTCCAGTTGCTTCCAATGTTATTTTG
+HWI-EAS443:3:8:1415:961#0/1
abbUabbbbabbbabba]`ababbVba_aa`aa_b^abbbb
@HWI-EAS443:3:8:1493:1065#0/1
ATTTTTGACACTTTCCATGCACGTGTTATCGCATTTGTGG
+HWI-EAS443:3:8:1493:1065#0/1
Y¥[YW_^¥W`YYVY_IQK_YQO_L_¥[X¥0]DMWOPa^a]
@HWI-EAS443:3:8:149:647#0/1
AGAAGACAAGCATAACGGGAAACTATGCAAATAAGAGGG
+HWI-EAS443:3:8:149:647#0/1
aa`a_`aaaa`aaaa^^^a`a`_aaa`]____]_`a__^Wa
@HWI-EAS443:3:8:1607:92#0/1
CTTTTTTATTTAAATTCTCTATTCTTTTTTCCAGGTGGTT
+HWI-EAS443:3:8:1607:92#0/1
abbbbbbbbbbb`a`bbbbbbbbbbabbbbbbba`aba_ba`^`
@HWI-EAS443:3:8:1680:192#0/1
TGGCTGGATCCTGGGAAATCCAGAGTGTGAATCACTCTCC
+HWI-EAS443:3:8:1680:192#0/1
aaa]aaa__¥¥¥¥^`^^^_SS¥¥W_V_W¥WWWUWQUWSU
@HWI-EAS443:3:8:1716:1882#0/1
ATTCAAAGCAGCCGTTTCCAATTTCTTGGCATTGTTTTT
+HWI-EAS443:3:8:1716:1882#0/1
a`_a``____^^¥a^__^Z_Z`__ZVZ_^^ZZZZ_X^]]B
@HWI-EAS443:3:8:217:1960#0/1
AAGTCCTCGTGCTATGGGGCATTACCATCCATCTACTAG
+HWI-EAS443:3:8:217:1960#0/1
a`a¥aa`a_[Q____^V^_^____^_W¥_^^_a^Z¥a_]_S
@HWI-EAS443:3:8:256:143#0/1
GGAACGTGTTACCCAGGAGATTTTCATCGATTATGAGGAGC
+HWI-EAS443:3:8:256:143#0/1
`baaabYa_`aa`Yaa_]a¥_`_]¥Va]]_`^_`^Y_V
@HWI-EAS443:3:8:266:952#0/1
GGCCATTGCCGTTTTCATTGAAGGGGGGTGGACAGGGATG
+HWI-EAS443:3:8:266:952#0/1
aba_aaaaa^b`¥aa]aaaa^Zaaba^b¥Z`]¥^]``^_`
@HWI-EAS443:3:8:288:1972#0/1
GGGGCATTACCATCCATCTACTAGTGCTGACCAACAAAG
+HWI-EAS443:3:8:288:1972#0/1
abaababbbbaabaaaaaabaY]YX`a`ba^aaWa[a`

@HWI-EAS443:3:8:304:446#0/1
GGGGACATCAAGATACAGCAAGAAGTTCAAGCCGGAAATA
+HWI-EAS443:3:8:304:446#0/1
aa][[YYY[aQa_`]^`^`]^`a^^_VVU_]^NU[_]^P^^
@HWI-EAS443:3:8:358:1957#0/1
AGCAAATCCTACATTAATGATAAAGGGAAAGAAGTCCTCG
+HWI-EAS443:3:8:358:1957#0/1
a[b`^a`bb_b_¥^¥aaaaa^b`aa____`aa`^aZ_aS`a
@HWI-EAS443:3:8:384:1120#0/1
GCACGTGTTATCGCATTTGTGGTAAAATTCAAAGCAGCCG
+HWI-EAS443:3:8:384:1120#0/1
aabab_``¥bWba^aaaaZ[aaRaaa`_a_^_Y¥]__¥W_
@HWI-EAS443:3:8:420:150#0/1
CGTGTACCAGGAGATTTTCATCGATTATGAGGAGCTAAG
+HWI-EAS443:3:8:420:150#0/1
`bYbb`[[`YX_XS_R]aXW_VV`^K^UZaaa_Q_G[]`a
@HWI-EAS443:3:8:426:123#0/1
CTCTTCAGGTCGGCTGCATATCCTGACCCCTGCTCATTTT
+HWI-EAS443:3:8:426:123#0/1
a_OY`ZabbY_a`_`a¥UZa`_^[^__ZQZ_^W_¥¥`U¥¥
@HWI-EAS443:3:8:459:1417#0/1
CTGGCTTCTTACCTTTTCATATAAGTTCTTCACATTTGAA
+HWI-EAS443:3:8:459:1417#0/1
X`a`aabbbababbbbbbbbbb`aaaababbb`aa```ba
@HWI-EAS443:3:8:460:1426#0/1
TGAATTTCTTTTTTAACTAGCCATATTAATTTTTGTAG
+HWI-EAS443:3:8:460:1426#0/1
aaaaaa]a[a_a`__^a_aUS`U`a^a_a_a`_¥_aa[a^
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ATCCCTGTCCACCCCTTCAATGAAACCGCAATGGCCC
+HWI-EAS443:3:8:46:863#0/1
`abaa`a^[\`a`X_¥aa`_a__`[\`aaaa¥_]¥¥¥¥U^
@HWI-EAS443:3:8:576:537#0/1
GGGGACATCAAGATACAGCAAGAAGTTCAAGCCGGAAATA
+HWI-EAS443:3:8:576:537#0/1
abaaa`Ya^_ab_a`abaaaaa_a^]_a_a^]`_`URVa
@HWI-EAS443:3:8:586:119#0/1
TGAACTTCTTGCTGTATCTTGATGTCCCCACAAAACATA
+HWI-EAS443:3:8:586:119#0/1
aaaa`aaa`aba_a_aaaa`_`a___W__Z^^_^_]__
@HWI-EAS443:3:8:600:1150#0/1
GCTTGAACTTCTTGCTGTATCTTGATGTCCCCACAAAAC
+HWI-EAS443:3:8:600:1150#0/1
ababb`babb_aabaab`ba_aaaaabaa`a^a`_`P__`
@HWI-EAS443:3:8:600:483#0/1
GAAGTCCTCGTGTATGGGGCATTACCATCCATCTACTA
+HWI-EAS443:3:8:600:483#0/1
aaaa_aaaab`a_aaaa_a`_```_`_Qa¥_Z__^Z_U][
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GACAATGGAACGTGTACCAGGAGATTTTCATCGATTATG

+HWI-EAS443:3:8:605:429#0/1
a_aa]]a`_a`aJa_[`_a¥R`aX` `[_XFU^__^[^^]a
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+HWI-EAS443:3:8:633:434#0/1
abaabbaaa_bbaabaaaa`aa_]a___`aY^_`¥]a]_
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+HWI-EAS443:3:8:652:219#0/1
`abaabbba`_aaaaaa`aa`a_a¥_____U`WaU]S¥_[U
@HWI-EAS443:3:8:705:736#0/1
GTTTCCTGGACATTTGGACTTACAATGCCGAAGTGTGGT
+HWI-EAS443:3:8:705:736#0/1
a]¥Y`_]`^`¥^`[a`aa_a_]aZ][¥]¥[___`]`_`YG[¥B
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+HWI-EAS443:3:8:719:947#0/1
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+HWI-EAS443:3:8:76:1397#0/1
aaaaabXaaaaaaaa_bbaa`a^`aXa`_`_a_aa]`_`aaa
@HWI-EAS443:3:8:794:107#0/1
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+HWI-EAS443:3:8:794:107#0/1
¥a`a`_`b[XP^_aaVRbbaaaaT^aYbSb^aS]_aZ^__¥
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+HWI-EAS443:3:8:835:122#0/1
aabaaaaaa`_`_`__a___^_X^WW]_ZXZ^`ZW[XXXZ
@HWI-EAS443:3:8:84:504#0/1
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+HWI-EAS443:3:8:84:504#0/1
aaa]][^W_bYGYQZT_Ubba¥_b]_aaa`Q]`TY_[Za_
@HWI-EAS443:3:8:852:446#0/1
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+HWI-EAS443:3:8:852:446#0/1
¥`_`b¥a¥^`b^a`a_aaaaaabbabZ]a_]`aSbaU_Yba
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+HWI-EAS443:3:8:853:975#0/1
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+HWI-EAS443:3:8:865:1440#0/1
a__aba`ba¥`aU`a`_aa_¥aS]a^`_`a[_¥¥_WZa_^
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+HWI-EAS443:3:8:870:448#0/1
_bababbbbbbbbbbb`abbabb_aaaaa`aaaV`¥`aa^

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+HWI-EAS443:3:8:881:963#0/1
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@HWI-EAS443:3:8:905:828#0/1
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+HWI-EAS443:3:8:905:828#0/1
`¥bbbaabb_bbbZaababa_b]aa¥aa__a__`aUaaa`
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+HWI-EAS443:3:8:939:378#0/1
¥bTaaaa`W]]aYab_¥`RY^aTYRQ_aZZ]`W^Z[]^¥[
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+HWI-EAS443:3:8:998:318#0/1
aa`a_baaaa_b`_`aaabba`^`_baaa]^_aH`_H]S`
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+HWI-EAS443:3:90:1000:1252#0/1
a^_aaaa`_`a_a_a`_aZa^aa`__`___`a]a^``¥a
@HWI-EAS443:3:90:1027:25#0/1
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+HWI-EAS443:3:90:1027:25#0/1
¥a_]TWS^`H_YS¥b`^J[¥aaaa^]U`YQ[_`_ZZ¥_`^N
@HWI-EAS443:3:90:1032:1247#0/1
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+HWI-EAS443:3:90:1032:1247#0/1
aaa^abaaab_^abaaa`ba_babaa`aaba`a`aaXaa`
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GGCTGGATCCTGGGAAATCCAGAGTGTGAATCACTCTCCA
+HWI-EAS443:3:90:1059:1193#0/1
aa¥T¥¥XX]W`^a]OZ]`XXb`¥`^]P`[^ZV¥IV[]`^]
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+HWI-EAS443:3:90:1061:480#0/1
ab`b_abaa^babbaa_aaab]aaa_a`aa``a_aa``_`
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+HWI-EAS443:3:90:1072:1713#0/1
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AGTCCTCGTGCTATGGGGCATTACCATCCATCTACTAGT
+HWI-EAS443:3:90:1082:1306#0/1
`a`aaaa]]`___a`_]_Z^_a`_V[___]_a]¥`_`^a_Z
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+HWI-EAS443:3:90:1087:204#0/1
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+HWI-EAS443:3:90:1103:1184#0/1
abab`aababbaaaaaaab[aba`aa`b_aaabaaaaa`
@HWI-EAS443:3:90:1113:145#0/1
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+HWI-EAS443:3:90:1113:145#0/1
aab]aabaaaa]aa]_`aaa^Q]Z_a`aaa^^`^`]
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+HWI-EAS443:3:90:1121:827#0/1
abaa`a^abbabaaabaaaa_aaa`a`_aa__a`^aa_a`
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+HWI-EAS443:3:90:1136:1387#0/1
`bbaa`a_R¥`_aaa0a]`_^U]`aRR``____]^^_V`a^
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+HWI-EAS443:3:90:1143:328#0/1
aaab``Z`aa¥`a^a`]`_`ZX`_W^_a_[Xa^UVS]U[S
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+HWI-EAS443:3:90:1162:371#0/1
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+HWI-EAS443:3:90:119:1975#0/1
aaa`aa`a`a`_aaaaa^`_aa_aaa_____^_W^]Z^]
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+HWI-EAS443:3:90:1210:1323#0/1
abab`aba^`X^aa^aa`aba[S[^aa_aa`_`^aa`W]a
@HWI-EAS443:3:90:1215:406#0/1
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+HWI-EAS443:3:90:1215:406#0/1
aa_aa`bbY^aXab^aa`^a¥Z]a]aa`_a``aXW]]]a¥
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+HWI-EAS443:3:90:1229:734#0/1
``_`abaaa`ab_]aaaaaaaaa`^a^_a^`a``_aa^`
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+HWI-EAS443:3:90:1233:1367#0/1
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@HWI-EAS443:3:90:1255:1974#0/1
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+HWI-EAS443:3:90:1255:1974#0/1
^b[¥I_a`bZ^a`bba[bbYab_a^ZH]X[JK`G`[]_T
@HWI-EAS443:3:90:1291:1444#0/1
GCTGGCTGGATCCTGGGAAATCCAGAGTGTGAATCACTCT
+HWI-EAS443:3:90:1291:1444#0/1
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+HWI-EAS443:3:90:1332:498#0/1
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@HWI-EAS443:3:90:1340:512#0/1
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+HWI-EAS443:3:90:1340:512#0/1
`]X^XV]X^`_YRaa¥ZW`Z^_W[¥¥]]P]`L_NNU`__a
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+HWI-EAS443:3:90:1358:1847#0/1
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@HWI-EAS443:3:90:1375:2027#0/1
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+HWI-EAS443:3:90:1375:2027#0/1
[`¥aaa]Zb_VX`_K0a[UUba^V]b]VIa¥`_VKPR`b^
@HWI-EAS443:3:90:1392:1031#0/1
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+HWI-EAS443:3:90:1392:1031#0/1
`babR]ab`_JX`_Z[_a_]a`Ta`_R_¥W__BBBBBBB
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+HWI-EAS443:3:90:1393:1315#0/1
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CAATGGCATTCTGTGTGCTCTTCAGGTCGGCTGCATATCC
+HWI-EAS443:3:90:1402:944#0/1
[_`___^X`ab_b[_`_`¥ba___ba^W]b_GY`H`bbaS`
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ATAACGGGAAACTATGCAAATAAGAGGGGTAGCCCCATT
+HWI-EAS443:3:90:1405:311#0/1
abb_[a_^aa`G``aa``_a_a_`aSaa``_X`TW^[WX^
@HWI-EAS443:3:90:1416:767#0/1
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+HWI-EAS443:3:90:1416:767#0/1
abbaa`abba`aba_b`aaaa^_a_a`aaaa^aaa``]
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+HWI-EAS443:3:90:1439:990#0/1
ab`aabaaba`aaaa`_]W_aaaS__^aa_]_^a_^`
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CAATGGAACGTGTACCCAGGAGATTTTCATCGATTATGAG
+HWI-EAS443:3:90:144:838#0/1
a_ww]__^RQW_Z[KZ^V[_WYaXWJ]UQZ]_V¥^T]a__
@HWI-EAS443:3:90:146:1119#0/1
AGCAACTGGAAATCTAGTGGTACCGAGATATGCATTCGCA
+HWI-EAS443:3:90:146:1119#0/1
aababaababaa`aaaa^a_^bba`aaa``aaaa`_a^`a
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@HWI-EAS443:3:90:30:1608#0/1
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+HWI-EAS443:3:90:30:1608#0/1
ab`b`^aaaaaaa`a`aa`aaaaa``aaa``a___aY``
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+HWI-EAS443:3:90:318:1700#0/1
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@HWI-EAS443:3:90:324:1213#0/1
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+HWI-EAS443:3:90:324:1213#0/1
a_]Z¥P[VVUUVR[]]PVO[L[^]]Y¥]VPYRaZ^[XP
@HWI-EAS443:3:90:335:1572#0/1
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+HWI-EAS443:3:90:335:1572#0/1
aaa`^TSa_]aa^V[[aP¥0¥_`¥]W_ZZ^^Z^¥TT^¥SZ
@HWI-EAS443:3:90:384:1148#0/1
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+HWI-EAS443:3:90:384:1148#0/1
]bZV¥¥^baba`_]^^[YZV__NZVWXXJ_ZZ`a``_[aY
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GGTTTCCTGGACATTTGGACTTACAATGCCGAAGTGTGG
+HWI-EAS443:3:90:423:383#0/1
ab_¥b_[`bbYLS``]baS¥QaVaa__^aaa^^_[a¥¥a]
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+HWI-EAS443:3:90:445:2015#0/1
W`Wa[`a`^baX[baS^`^Ubaaa`a`[`a`[]SS`_^aa
@HWI-EAS443:3:90:483:106#0/1
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+HWI-EAS443:3:90:483:106#0/1
a`Z[_[X_YYWRM`^_`_]`_`_`Z^aOSW`NZWZ^_W^^
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+HWI-EAS443:3:90:488:1601#0/1
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@HWI-EAS443:3:90:501:411#0/1
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@HWI-EAS443:3:90:538:239#0/1
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+HWI-EAS443:3:90:538:239#0/1
aV`a[0[[abX]`aQV`[Z_a_W[¥W^_aZ¥]Xa_U_[QT
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+HWI-EAS443:3:90:660:521#0/1
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@HWI-EAS443:3:90:684:470#0/1
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+HWI-EAS443:3:90:684:470#0/1
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+HWI-EAS443:3:90:685:1112#0/1
a`¥bTH¥_LV^`_]ba_a`_]a]a__b[baZPW`_aa0a
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+HWI-EAS443:3:90:711:1299#0/1
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+HWI-EAS443:3:90:772:216#0/1
_H_aaZZTSSZ[Z`_ZVU_^____VM^Y¥YZYLNT^VXGR
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+HWI-EAS443:3:90:800:2031#0/1
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+HWI-EAS443:3:90:830:1351#0/1
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@HWI-EAS443:3:90:858:1874#0/1
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+HWI-EAS443:3:90:858:1874#0/1
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+HWI-EAS443:3:90:910:1940#0/1
K_RXa``aX`a`a`a`_aa`bb```_YXaWWa``¥¥[¥Xab
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+HWI-EAS443:3:90:919:1573#0/1
ab`b^a`^]a`[_aaa_a_aba_[^_`a^Za[``__UI
@HWI-EAS443:3:90:938:926#0/1
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+HWI-EAS443:3:90:938:926#0/1
^]b`baaaaUa_aa]Z`aa`aa`____]_`a`^[_T[[_
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+HWI-EAS443:3:90:942:862#0/1
a_a`a]NJ__`VXPU]XZ¥`^`]P]¥LN[Q[ZU^WZQU
@HWI-EAS443:3:90:948:1988#0/1
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+HWI-EAS443:3:90:948:1988#0/1
abbbaaa`_aa]]a__aaa`aQ`][`a`a`^_aU__`Xa`
@HWI-EAS443:3:90:94:1187#0/1
GCTGCTTTGAATTTTACCACAAATGCGATAACACGTGCAT
+HWI-EAS443:3:90:94:1187#0/1
aa[^Z^¥[¥Q``____`TZ_]V[_Z^SXU¥UX¥_XZ[¥T

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`__aa_____]bbbab_W__bbbbba_`abbababaa
@HWI-EAS443:3:91:1027:1392#0/1
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+HWI-EAS443:3:91:1027:1392#0/1
abbaaaabaaaaa`baaabaa^aaaa`a_aZ¥`__]^
@HWI-EAS443:3:91:1066:1226#0/1
ATCGATGAAATCTCCTGGGTAACACGTTCCATTGTCTGAA
+HWI-EAS443:3:91:1066:1226#0/1
^Xab]ba`aXaaaa_aaa`W_ZKU_a`[_^_[_]^^_Y]
@HWI-EAS443:3:91:1088:68#0/1
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+HWI-EAS443:3:91:1088:68#0/1
`ba`b`baaaaababbabbba_bbb_bbbabbabbabb¥^
@HWI-EAS443:3:91:1099:1349#0/1
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+HWI-EAS443:3:91:1099:1349#0/1
a__a__a^a`a^a`aa_^aa^a`a_^`^S`¥¥¥_W¥Y
@HWI-EAS443:3:91:1152:127#0/1
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+HWI-EAS443:3:91:1152:127#0/1
_baaaab[aab_b`babababba`ab_a`a_aIaaVaaa
@HWI-EAS443:3:91:1177:881#0/1
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+HWI-EAS443:3:91:1177:881#0/1
aa`bbbab_bababbabaaab`aab_a`abba__aa_aa
@HWI-EAS443:3:91:1229:824#0/1
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+HWI-EAS443:3:91:1229:824#0/1
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+HWI-EAS443:3:91:1254:1089#0/1
]bbabbbabababbbbabab]bababbba_bababbaa
@HWI-EAS443:3:91:1266:284#0/1
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+HWI-EAS443:3:91:1266:284#0/1
`aa_a]]_aa`_a`_`a`_`_`[``U``a_V``WV_Y[0]
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+HWI-EAS443:3:91:1271:1941#0/1
aba`aaaaabbaaa`b`^`b`a_aY`^a`Y]a__a_]`
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+HWI-EAS443:3:91:1284:168#0/1
abbbbbbbaaabbbaa`abbabbabbbaabbbaV`
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+HWI-EAS443:3:91:1346:1672#0/1
a^H^a_`_`^¥]a`a_a[X]^Z`_`_____¥Z[aXMWWW
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+HWI-EAS443:3:91:1351:294#0/1
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@HWI-EAS443:3:91:1373:1159#0/1
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+HWI-EAS443:3:91:1373:1159#0/1
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@HWI-EAS443:3:91:1379:1134#0/1
GACAATGGAACGTGTTACCCAGGAGATTCATCGATTATG
+HWI-EAS443:3:91:1379:1134#0/1
aa¥_`^aab_`IaW^¥`_`_WZY^`_`]___ZR^]¥Z_VLOZ
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+HWI-EAS443:3:91:1423:1319#0/1
aaaaaaaa`a_aa]aaa_Zaaa_a__a_^aa`¥a_`^a
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+HWI-EAS443:3:91:1439:1359#0/1
_a_abaaababa_b_a_`ab`a`aaa_`^`aPZa_baaab
@HWI-EAS443:3:91:1470:1593#0/1
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+HWI-EAS443:3:91:1470:1593#0/1
ab_aaY_a`¥Z^^]YaaaV`a`__`ZZa¥`S_^_S]W_S
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+HWI-EAS443:3:91:1496:963#0/1
`__`aaaXK¥]¥U]0__bINaZT^_XUV_[_WaX^¥]UU]
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+HWI-EAS443:3:91:1535:145#0/1
_a^aa`aa`][_a_a¥``_abX`[_aaaZZa^][a¥U^
@HWI-EAS443:3:91:1590:288#0/1
TTCTTGCTGTATCTTGATGTCCCCACAAAACATATGCAT
+HWI-EAS443:3:91:1590:288#0/1
aaZ]^_`^`a_aaa``[]WQ¥RU^`X]_`_`^`_`Z_`^
@HWI-EAS443:3:91:1591:837#0/1
CAACTTTTTTATTTAAATTCTCTATTCTTTTTTCCAGGTG
+HWI-EAS443:3:91:1591:837#0/1
aba_bbbba`bb_ba`^b^abbbabb^b`aab`[^aa_U`
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+HWI-EAS443:3:91:159:409#0/1
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@HWI-EAS443:3:91:1688:64#0/1
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+HWI-EAS443:3:91:1688:64#0/1
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+HWI-EAS443:3:91:1710:1475#0/1
[aZSU`^^¥bZS^b`bbb¥aL_¥`bb[X`^]FY[ZI_QY]
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+HWI-EAS443:3:91:1749:767#0/1
a_ab_]baabba^aaaa_aaa`a¥Ya_Y`^]a__`XW`]
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+HWI-EAS443:3:91:195:1145#0/1
a_b`a[]U_a_`a`¥¥____`ZY^`¥^`^QLU[V]GW^Y
@HWI-EAS443:3:91:268:1648#0/1
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+HWI-EAS443:3:91:268:1648#0/1
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@HWI-EAS443:3:91:270:1094#0/1
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+HWI-EAS443:3:91:270:1094#0/1
aa`ba^aaa_aaa]`a`aaa`Waa]^`a`¥^_]W]^W
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+HWI-EAS443:3:91:279:502#0/1
ab``abaa_Ya`a_aZ_aZaX_a`Za¥`__`¥_¥¥__^
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+HWI-EAS443:3:91:322:1126#0/1
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@HWI-EAS443:3:91:354:1215#0/1
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+HWI-EAS443:3:91:354:1215#0/1
`_aZ_a`^`aaa`¥`a`[¥Z[_`^`[^[¥a_S¥_[^`[UP
@HWI-EAS443:3:91:355:372#0/1
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+HWI-EAS443:3:91:355:372#0/1
_ZZ`SQ]ZUNXFRRWZVJFOHOTTUQYPPUVUWUY¥¥UYU
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+HWI-EAS443:3:91:357:202#0/1
abbaaa`a`a_aaa_`aaaa_`Z```_`_a]`Y^^_W
@HWI-EAS443:3:91:373:1226#0/1
TGTGTGCTCTTCAGGTCCGCTGCATATCCTGACCCCTGCT
+HWI-EAS443:3:91:373:1226#0/1
``_a[`b_``_abbaXZa_a`__Z^V``_Z__a]a`QY_
@HWI-EAS443:3:91:39:1387#0/1
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+HWI-EAS443:3:91:39:1387#0/1
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+HWI-EAS443:3:91:405:1875#0/1
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TCGTGGTAGTCCAAAGTTCTTTTCATTTTCCAATAGAACCA
+HWI-EAS443:3:91:40:374#0/1
aabaaa]a^Y]`aa`X`Y`_]W¥```¥_Z^^^[[PO^V
@HWI-EAS443:3:91:429:1928#0/1
CTGGCTGGATCCTGGGAAATCCAGAGTGTGAATCACTCTC
+HWI-EAS443:3:91:429:1928#0/1
abaabbb`b`aaaa`aabbRb`baaa^`_`aa__ba_`^^
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+HWI-EAS443:3:91:439:1353#0/1
aaa`a`a]]bba``aaa][a¥a_aa__a__Za_[]`b``aZ
@HWI-EAS443:3:91:496:863#0/1
GACACTAGTAGAGCCGGGAGACAAAATAACATTTCGAAGCA
+HWI-EAS443:3:91:496:863#0/1
a```_a`aW]a^`_]`__Z_¥]^Z_]]]^W^WW]ZZ]Z]
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+HWI-EAS443:3:91:520:1401#0/1
Q_``¥T[b¥V_aU`[ab_babbabaYabb`bab]ab]bX]
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+HWI-EAS443:3:91:537:1091#0/1
a`^^aZ`aabbba_baa``^b¥bab`bb_baaaaa_aaa
@HWI-EAS443:3:91:539:931#0/1
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+HWI-EAS443:3:91:539:931#0/1
ZV[[a_^Ya`^TSS_`^¥`a```b`ba`a¥`ZZ¥]a¥WZ^
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+HWI-EAS443:3:91:555:164#0/1
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@HWI-EAS443:3:91:665:276#0/1
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+HWI-EAS443:3:91:665:276#0/1
aaaZSU_a^_aW__`aV^a_^Z`RZ^]^`U]X^ZX^W¥
@HWI-EAS443:3:91:666:211#0/1
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+HWI-EAS443:3:91:666:211#0/1
`bYaS¥aa^¥_H¥SU_UbIa_[T^a_TX¥X`ba_UGV]aX
@HWI-EAS443:3:91:677:187#0/1
AGCCAGTTAAAAACAATGCCAAGGAAATTGGAAACGGCT
+HWI-EAS443:3:91:677:187#0/1
ab_]`b¥aaaaaaa`a`a^Y``_aa__`_]_]`[_W¥V¥
@HWI-EAS443:3:91:730:973#0/1
GTGCTGACCAACAAAGTCTCTATCAGAATGCAGATGCATA
+HWI-EAS443:3:91:730:973#0/1
aQ[_^aZ_^`_]`__^W]]^`Y__`]Y]]_NX[]W]^Z^Z

@HWI-EAS443:3:91:732:1684#0/1
CCCCGCTCTACTAGTGTCCAGTAATAGTTCATTCTCCCTT
+HWI-EAS443:3:91:732:1684#0/1
abb_bbaaa``ba_Ka^HY]^baa`¥`_Ya`bYa``_a_
@HWI-EAS443:3:91:756:569#0/1
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+HWI-EAS443:3:91:756:569#0/1
]a^^`abbbIaa[QaT^a`^Qba_YZ^`Z`]T¥`a``_aa
@HWI-EAS443:3:91:771:1101#0/1
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+HWI-EAS443:3:91:771:1101#0/1
a[_ababb_¥a_Z_bbbabb^`abbabba]a`aaaaaaaa
@HWI-EAS443:3:91:827:2042#0/1
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+HWI-EAS443:3:91:827:2042#0/1
¥aba_b¥^XaaV__`aaaa`Gbab`[WQG]aaa[_]^a¥
@HWI-EAS443:3:91:845:72#0/1
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+HWI-EAS443:3:91:845:72#0/1
]VOX`¥aU`P¥aaaa[a`aa¥VSaUSYRYXQ[`BBBBBBB
@HWI-EAS443:3:91:861:839#0/1
GGATCCTGGGAAATCCAGAGTGTGAATCACTCTCCACAGC
+HWI-EAS443:3:91:861:839#0/1
a^][aa_a^^a¥`a`a]^SaT`]a_`]N_]`__]]__`aU
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+HWI-EAS443:3:91:900:430#0/1
[I_b`Xba[P[¥a`ZZ¥^T_¥MV_aUa`a_P¥]JJ`X[Y`
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+HWI-EAS443:3:91:911:640#0/1
U]]a_XW_aGb`ab`aYa_a^XVTR`_]PXaaa__Y_^aa
@HWI-EAS443:3:91:938:1037#0/1
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+HWI-EAS443:3:91:938:1037#0/1
aabb`babaaa]NZab`__`¥baaa`_`aa_aa_aa_[aa
@HWI-EAS443:3:91:966:763#0/1
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+HWI-EAS443:3:91:966:763#0/1
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@HWI-EAS443:3:91:971:522#0/1
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+HWI-EAS443:3:91:971:522#0/1
abaaab_bbabbaa^baaaaaaba``abbbaaaaaaaaaaa
@HWI-EAS443:3:91:979:1765#0/1
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+HWI-EAS443:3:91:979:1765#0/1
¥_bbb`]_]Z¥VX``¥_¥`ZM[T]_ONQa¥^b`b[`^a]
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+HWI-EAS443:3:92:1009:793#0/1
aabbbbbabbbbaababbababab_baaaa`aaaaaa`
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+HWI-EAS443:3:92:1014:919#0/1
aaaab`aa`aaa`a___a__Y`^a]^a_aa_^`_Q]aZ
@HWI-EAS443:3:92:1016:1533#0/1
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+HWI-EAS443:3:92:1016:1533#0/1
ababbabV_a[baaaaa`abb_bb``___ab_aabaaba
@HWI-EAS443:3:92:1110:1414#0/1
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+HWI-EAS443:3:92:1110:1414#0/1
aaa`aaa[¥_`a]aa^`W`]`^`aa¥_a^`^_X[_
@HWI-EAS443:3:92:1126:705#0/1
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+HWI-EAS443:3:92:1126:705#0/1
a_ababaa]aaaa`b]Yaa`a_Z_aa]aaaa`a`_]V__
@HWI-EAS443:3:92:1128:1711#0/1
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+HWI-EAS443:3:92:1128:1711#0/1
aaa¥V`ZYX`VDRY[a[¥a`a[^a`S¥YLT`_^`_]`^]
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+HWI-EAS443:3:92:1171:298#0/1
ababaaaa`_ab`abaaaS_b_`]_a]__`^`^`^`_Z_
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+HWI-EAS443:3:92:1217:66#0/1
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@HWI-EAS443:3:92:1252:1110#0/1
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+HWI-EAS443:3:92:1252:1110#0/1
]`ba_abba_`aba¥`aYa]]a¥b_[Ybbb`a`aadW]^
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+HWI-EAS443:3:92:1308:817#0/1
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+HWI-EAS443:3:92:1358:15#0/1
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@HWI-EAS443:3:92:1393:1292#0/1
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+HWI-EAS443:3:92:1393:1292#0/1
`_bbabb¥baab_V`aa_b`aaaa`aa^bb__aa`b^a
@HWI-EAS443:3:92:1443:752#0/1
CTTCTTGCTGTATCTTGATGTCCCCACAAAAACATATGCA
+HWI-EAS443:3:92:1443:752#0/1
abaab`bIbb]bb`bbba¥bb`¥_``]aa¥]^aaaaZFZ

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+HWI-EAS443:3:92:1499:183#0/1
abbabbabbbZaab^bbb^baZaa]abbabb_b`a^a¥` `@
@HWI-EAS443:3:92:1539:585#0/1
CACGATTCAAATGTGAAGAACTTATATGAAAAGGTAAGAA
+HWI-EAS443:3:92:1539:585#0/1
aa]_Z^b^ab^`aY`Z¥b`b_bb]babbaaa`bb`aaaaa
@HWI-EAS443:3:92:1603:1729#0/1
TTCAGGTCGGCTGCATATCCTGACCCCTGCTCATTTTGAT
+HWI-EAS443:3:92:1603:1729#0/1
aa` `aa__a_`aaS_aa`_a__a^`W__R^¥_a`_^X¥`
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AATATACATCCGATCACAATTGGAAAATGTCCAAAATATG
+HWI-EAS443:3:92:165:1444#0/1
Wb^Z]¥` `RX^aa]W_X]`W¥¥TY]`WDSXaXV`R[a_XL
@HWI-EAS443:3:92:1671:1273#0/1
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+HWI-EAS443:3:92:1671:1273#0/1
abb`aab_aTbbbaaa_abb`aaaaa`_b`]M_a_a``_b
@HWI-EAS443:3:92:1703:1302#0/1
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+HWI-EAS443:3:92:1703:1302#0/1
a]_^baabRa[`YZa`Ua]aY[Za_a_]X`[^_a`Z_`]
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ATTTAAATAAAAAAGTTGATGATGGTTTCCTGGACATTTG
+HWI-EAS443:3:92:1712:1320#0/1
¥U^[b`aab]_baaWSaa_aaa^`V¥_SV_a]a^____aS
@HWI-EAS443:3:92:1735:921#0/1
GGGACATCAAGATACAGCAAGAAGTTCAAGCCGAAATAG
+HWI-EAS443:3:92:1735:921#0/1
abaaaa` `a^Y_aaaa`^`bbaab^`F_aa]]a_``_a`_
@HWI-EAS443:3:92:1776:1535#0/1
CACACTCTGTAACTTCTAGAAGACAAGCATAACGGGAA
+HWI-EAS443:3:92:1776:1535#0/1
ab__Ua^[`__^aXS_a¥ZZRZ_[P¥^]]_S]¥XU]]¥XX
@HWI-EAS443:3:92:208:566#0/1
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+HWI-EAS443:3:92:208:566#0/1
abbba`a^aa_aab`aaaaaba`a`a_aaa[aaaba`_¥a
@HWI-EAS443:3:92:224:1928#0/1
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+HWI-EAS443:3:92:224:1928#0/1
ab`[_`]Ob`abaa`aa_aa_]^[^Xaa^[W[^[]` `WUJ
@HWI-EAS443:3:92:226:306#0/1
TTTTCATATAAGTTCTTCACATTTGAATCGTGGTAGTCCA
+HWI-EAS443:3:92:226:306#0/1
aba^^ab``_Z^^`aaa`_a_a`a`__` `a]``WZZQV]^
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+HWI-EAS443:3:92:286:580#0/1
a[_XXZWa^VZTM[`W^YX]^T[^GZFQ[___ZZT]QOQ^Y
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+HWI-EAS443:3:92:335:434#0/1
^a_aba^``baa_V`Y¥^`X¥¥_`aa_]__[]aZY¥[_¥
@HWI-EAS443:3:92:395:1025#0/1
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+HWI-EAS443:3:92:395:1025#0/1
abb`Z_abbaaaaaaaaaaaaa`aba`aa````_`a_^````
@HWI-EAS443:3:92:397:1805#0/1
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+HWI-EAS443:3:92:397:1805#0/1
abaaaaa`_aaaaabaa[T`_S^¥UYaaUSY_W^`aUBB
@HWI-EAS443:3:92:409:930#0/1
CGTGTTACCCAGGAGATTTTCATCGATTATGAGGAGCTAAG
+HWI-EAS443:3:92:409:930#0/1
aaX]aa_aaZTY¥_]H`a`¥Y^_a`_¥```]a___^^^[\`
@HWI-EAS443:3:92:434:995#0/1
GAAGGGAGAATGAACTATTACTGGACACTAGTAGAGCCGG
+HWI-EAS443:3:92:434:995#0/1
`babaa_]`aaa_aaaaaaaa`a`a`aaa]a]aa^a[¥_a
@HWI-EAS443:3:92:440:420#0/1
GGTCAGGATATGCAGCCGACCTGAAGAGCACACAGAATGC
+HWI-EAS443:3:92:440:420#0/1
a`¥abaaaaaaaaaaaa`a`a`__aWaa_a`_`a___a¥
@HWI-EAS443:3:92:530:515#0/1
GCCGTTACACCTTTGTTGAGTCATGATTGGGCCATGAAC
+HWI-EAS443:3:92:530:515#0/1
aa``_b`a__Y^]aa`babbaa`a`a^^ab]a`^]a_a_
@HWI-EAS443:3:92:605:415#0/1
CATCATTTGAAAGTTTGGAGATATTTCCCAAGACAAGTTC
+HWI-EAS443:3:92:605:415#0/1
aaaaabbbbaaabb`abbbbbbbaaa`ab`ab`a_a_^a
@HWI-EAS443:3:92:635:1063#0/1
ATTTCCAGTTGCTTCGAATGTTATTTTGTCTCCCGCTCT
+HWI-EAS443:3:92:635:1063#0/1
V`baa¥ab[Z_]aaabaab[^Za_]a`_^Y^_S`b_a^N
@HWI-EAS443:3:92:647:775#0/1
AACAAAGTCTCTATCAGAATGCAGATGCATATGTTTTTGT
+HWI-EAS443:3:92:647:775#0/1
_`b^Z[a`_a^_aaaa_¥aab_ZXaaa`Y_a``^a```a[
@HWI-EAS443:3:92:657:979#0/1
GTTACCCAGGAGATTTTCATCGATTATGAGGAGCTAAGAGA
+HWI-EAS443:3:92:657:979#0/1
aabbbbbbbaaaabbbb`abbabaaaaabb]a_ab`_```a
@HWI-EAS443:3:92:705:1303#0/1
ATTGAGCTCAGTGTTCATCATTTGAAAGTTTGGAGATATTC
+HWI-EAS443:3:92:705:1303#0/1
a^_baaaaaa¥R¥^^]aaa`a`Ya^V^Z`_a_^`_`_`_]

@HWI-EAS443:3:92:714:583#0/1
GCTGGCTGGATCCTGGGAAATCCAGAGTGTGAATCACTCT
+HWI-EAS443:3:92:714:583#0/1
aaTa`a__YVSLYV[]RKX_STVKVY¥PYS¥¥^VZ^UU[S
@HWI-EAS443:3:92:715:1948#0/1
ATGGTTTCCTGGACATTTGGACTTACAATGCCGAAGTGT
+HWI-EAS443:3:92:715:1948#0/1
a_baXV_]a`aaX]^aaa^`NX`__a]Ra_]a^YZ]RWX
@HWI-EAS443:3:92:778:1113#0/1
AGTCCTCGTGCTATGGGGCATTACCATCCATCTACTAGT
+HWI-EAS443:3:92:778:1113#0/1
aa]¥`abUa`_aaa`__aa`a`_`a`__aa_^`¥
@HWI-EAS443:3:92:891:226#0/1
ATTTCTTCTCTGTTTAAATTTTGCTTCTCTGAGTATTTTG
+HWI-EAS443:3:92:891:226#0/1
abb`bbab`bb`abbbbbbbbabba`babbbb`bb`bab
@HWI-EAS443:3:92:912:829#0/1
GAATGCCCCATAGCACGAGGACTTCTTCCCTTATCATT
+HWI-EAS443:3:92:912:829#0/1
¥Z[Z`a[]S^Z]¥^b^XZLIN¥]Y]b¥`¥QGXY`^^[W`a
@HWI-EAS443:3:92:914:537#0/1
TAGATTTCCAGTTGCTTCCAATGTTATTTTGTCTCCCGGC
+HWI-EAS443:3:92:914:537#0/1
aaa_aa`^a`a`_aa^`_`a_a^a`a`^[_^Z]]`X
@HWI-EAS443:3:92:975:1274#0/1
AACAAAGTCTCTATCAGAATGCAGATGCATATGTTTTGT
+HWI-EAS443:3:92:975:1274#0/1
a`_aa`_aZH`_`]]`_`_a__a^`_]]`_`_a_aa^a]^
@HWI-EAS443:3:92:976:1304#0/1
TTTTGCTTCTCTGAGTATTTTGGGTAGTCATAAGTCCCA
+HWI-EAS443:3:92:976:1304#0/1
]_b^V_Z_NHYb`a[aNZa]S`XaaY]a_____PZ]ZLV`
@HWI-EAS443:3:93:1091:311#0/1
GACAATGGAACGTGTTACCCAGGAGATTTTCATCGATTATG
+HWI-EAS443:3:93:1091:311#0/1
a¥[`]^`][Q]Y`Y`_UZ[_X[WWV]]¥ZX]Y]X]]X^]
@HWI-EAS443:3:93:1101:548#0/1
GCTGGCTGGATCCTGGGAAATCCAGAGTGTGAATCACTCT
+HWI-EAS443:3:93:1101:548#0/1
a`baaaaa`]a¥a^`a_Ra`a`aa`[`[^Q]`a`U^S_¥^
@HWI-EAS443:3:93:1144:1331#0/1
GCTGGCTGGATCCTGGGAAATCCAGAGTGTGAATCACTCT
+HWI-EAS443:3:93:1144:1331#0/1
a¥`a]]XUX]¥Z¥Y`YUZ^TXVZ]S¥S]S`U[PM¥UNSB
@HWI-EAS443:3:93:1147:696#0/1
TCATAATCGATGAAATCTCCTGGGTAACACGTTCCATTGT
+HWI-EAS443:3:93:1147:696#0/1
Ybaaa`Z`a`]]`aaaa^aa`]]`a]a]`_ZSS`_]`^]
@HWI-EAS443:3:93:1152:2008#0/1
GCTGGCTGGATCCTGGGAAATCCAGAGTGTGAATCACTCT

+HWI-EAS443:3:93:1152:2008#0/1
a\$aaaa`_QP][YY]a`aZ^_]¥¥]P^Z^¥¥]^¥T^
@HWI-EAS443:3:93:1152:841#0/1
CAAGGAAATTGGAAACGGCTGCTTTGAATTTTACCACAAA
+HWI-EAS443:3:93:1152:841#0/1
aaaaQ^`X`abb¥aaaab`YaFTVUPKK^_]UGXVP[`
@HWI-EAS443:3:93:1155:434#0/1
GAAAGAAGTCCTCGTGCTATGGGGCATTACCATCCATCT
+HWI-EAS443:3:93:1155:434#0/1
a\$aa^`aa]U]^UZ^`__`aa_^PZ_[TZ]^`]ZSSXQZ
@HWI-EAS443:3:93:119:2023#0/1
CAGAATTTACTTTGTTAGTAATCTCGTCAATGGCATTCTG
+HWI-EAS443:3:93:119:2023#0/1
¥^aaaab`]baU¥[ab_`a`a]_aaaVPYa^^X^aB
@HWI-EAS443:3:93:1222:1104#0/1
GCCAGTTAAAAACAATGCCAAGGAAATTGGAAACGGCTG
+HWI-EAS443:3:93:1222:1104#0/1
a\$aaa`a_aa]Y[Xa_`a^]`]a`Y^^`^]`_^`_0¥_
@HWI-EAS443:3:93:129:235#0/1
CTGGCTGGATCCTGGGAAATCCAGAGTGTGAATCACTCTC
+HWI-EAS443:3:93:129:235#0/1
aab`Za`]Z_]^]^`a_aa_`a`a\$WaW`_¥`^ZUYWWU
@HWI-EAS443:3:93:1355:1095#0/1
CACGATTCAAATGTGAAGAACTTATATGAAAAGGTAAGAA
+HWI-EAS443:3:93:1355:1095#0/1
¥a`ba¥b¥bb¥bbab`aba`abb¥b_bbb_abb¥abbba
@HWI-EAS443:3:93:1371:1232#0/1
TTTTTACATATTTTGGACATTTTCCAATTGTGATCGGATG
+HWI-EAS443:3:93:1371:1232#0/1
abaaPS^aaX^]a]]][a^`aa_XS]_`¥^Wa_¥V_^_]B
@HWI-EAS443:3:93:1408:213#0/1
CAGAATTTACTTTGTTAGTAATCTCGTCAATGGCATTCTG
+HWI-EAS443:3:93:1408:213#0/1
aaaZ^`aZ]R_`ba]_aa[aaaYZF[¥T¥]H]_¥a_VLT`
@HWI-EAS443:3:93:144:443#0/1
GTTAGTAATCTCGTCAATGGCATTCTGTGTGCTCTTCAGG
+HWI-EAS443:3:93:144:443#0/1
a_aa`__aa_aab]aaaa_`a`_]_^]`_`W_¥^^X[_`
@HWI-EAS443:3:93:1460:1390#0/1
GATACAGCAAGAAGTTCAAGCCGAAATAGCAATAAGACC
+HWI-EAS443:3:93:1460:1390#0/1
aaU[Ubbaaa`a_a__][a`_X__a`^___0`_aa^]¥I[
@HWI-EAS443:3:93:149:1202#0/1
GCACTAGTAGATGGATGGTGAATGCCCCATAGCACGAGGA
+HWI-EAS443:3:93:149:1202#0/1
a`Y`a[_Vb]Y^bbb[aaG`bb¥aaaaab`a^]baaZ`__
@HWI-EAS443:3:93:1528:973#0/1
AATTTTTGTAGAAGCTTTTTGCTCCAGCATGAGGACATGC
+HWI-EAS443:3:93:1528:973#0/1
__bbabaVV`baa_X]a`aa`U]SS``¥_W_^]X_Y

@HWI-EAS443:3:93:1548:1065#0/1
AAGCCAGTTAAAAACAATGCCAAGGAAATTGGAAACGGC
+HWI-EAS443:3:93:1548:1065#0/1
a^a`Y`b`__a^^_a_a_aaa`_]`^¥[[]]`Z^YT[^
@HWI-EAS443:3:93:1550:1226#0/1
CATAAGTCCCATTTTTGACACTTTCCATGCACGTGTTATC
+HWI-EAS443:3:93:1550:1226#0/1
`_bbbbab¥abbbbbbbba^babba`_aba_aab`a_aaaa
@HWI-EAS443:3:93:1566:1835#0/1
AGAAGTCCTCGTGCTATGGGGCATTACCATCCATCTACT
+HWI-EAS443:3:93:1566:1835#0/1
`baTWaWX¥[a]a[Zaaaa`a`a_]`^aS`a^WZXUN`W`
@HWI-EAS443:3:93:1606:871#0/1
CTTAGCTCCTCATAATCGATGAAATCTCCTGGGTAACACG
+HWI-EAS443:3:93:1606:871#0/1
a¥]`_¥`bb`baaYaa`a^a^Yaa]aXOPV`b__[¥XTS_
@HWI-EAS443:3:93:1733:1233#0/1
ATTCAAAGCAGCCGTTTCCAATTTCTTGCCATTGTTTTT
+HWI-EAS443:3:93:1733:1233#0/1
abbaaaaa_baY`a¥ba`_^`a`a^Ua]_]_Za]`_aa_a
@HWI-EAS443:3:93:1741:392#0/1
TGCTATTTCCGGCTTGAACCTTGCTGTATCTTGATGTC
+HWI-EAS443:3:93:1741:392#0/1
[]`aaab`aaba`_bb__[_aaaaR^`a^`_aa`__LZYX
@HWI-EAS443:3:93:1749:735#0/1
AGATGCATATGTTTTTGTGGGGACATCAAGATACAGCAAG
+HWI-EAS443:3:93:1749:735#0/1
a`a`X_baaab_aabaa^aa`¥`_]`_^_]`]`a]a_R_aa
@HWI-EAS443:3:93:1776:949#0/1
AACAAAGTCTCTATCAGAATGCAGATGCATATGTTTTTGT
+HWI-EAS443:3:93:1776:949#0/1
aaabaaa`aaaaaa_baaa_a_aa_^a]a`_ab_a^`_^`
@HWI-EAS443:3:93:180:1029#0/1
CAAGATACAGCAAGAAGTTCAAGCCGAAATAGCAATAAG
+HWI-EAS443:3:93:180:1029#0/1
]`_^bbZbb_baab`^^`_^__b_aaaaa`_a`][aa__a_
@HWI-EAS443:3:93:208:1063#0/1
CAATGGAACGTGTTACCCAGGAGATTTTCATCGATTATGAG
+HWI-EAS443:3:93:208:1063#0/1
aaaaaa]a^a^a`aaa`¥_aa[`]____`_]a^][^]_]_
@HWI-EAS443:3:93:242:1666#0/1
AAGTTGTATTGCAATCGTGGACTGGTGTATCTGAAATGAT
+HWI-EAS443:3:93:242:1666#0/1
XR`TZW]a¥ababb_a]XP]ab^_S[^^`abbaa_b^]`
@HWI-EAS443:3:93:269:891#0/1
AAGCCAGTTAAAAACAATGCCAAGGAAATTGGAAACGGC
+HWI-EAS443:3:93:269:891#0/1
aaabaa`R^aaX`aaa_aaa`a`_a`^¥__a`^`[]`^^
@HWI-EAS443:3:93:272:869#0/1
TTTGTTAGTAATCTCGTCAATGGCATTCTGTGTGCTCTTC

+HWI-EAS443:3:93:272:869#0/1
Wa_`ba[`abb_aa^`0¥`Z_XU`aWP_a`TSU^]TLZXV
@HWI-EAS443:3:93:291:806#0/1
GCAGGGGTCAGGATATGCAGCCGACCTGAAGAGCACACAG
+HWI-EAS443:3:93:291:806#0/1
^^aabb`0``]b_]aabSa`aba]^aaa_aaa^``_¥aa
@HWI-EAS443:3:93:301:305#0/1
ATCATTGAAAGGTTTGAGATATCCCCAAGACAAGTTCA
+HWI-EAS443:3:93:301:305#0/1
Ya_^_aaaa_Z^¥T`¥]`a__`_`_]`_____W^]X]YB
@HWI-EAS443:3:93:304:602#0/1
GGGACATCAAGATACAGCAAGAAGTTCAAGCCGAAATAG
+HWI-EAS443:3:93:304:602#0/1
aaaa_aa`a`a`_`_aa`aaa`_a^`_b_a`^a`X^^`_`
@HWI-EAS443:3:93:333:100#0/1
GTTATTTGTCTCCCGCTCTACTAGTGTCCAGTAATAGT
+HWI-EAS443:3:93:333:100#0/1
a`a]a``aa__`_`W__^^]`¥R]XVYRYXYX]YYZWZZZ
@HWI-EAS443:3:93:373:1003#0/1
ATCAAGATACAGCAAGAAGTTCAAGCCGAAATAGCAATA
+HWI-EAS443:3:93:373:1003#0/1
a`a¥^`baa_aaaaba^aa]``baa_^_a]`[]_a^X``a
@HWI-EAS443:3:93:399:211#0/1
GATTTCCAGTTGCTTCGAATGTTATTTTGTCTCCCGGCTC
+HWI-EAS443:3:93:399:211#0/1
aabbbaab_a^aaaab[_ab^a`aa`aa`_``][_`]]^
@HWI-EAS443:3:93:413:576#0/1
GTCATCATTTGAAAGTTTGAGATATCCCCAAGACAAGT
+HWI-EAS443:3:93:413:576#0/1
aa_^`¥`aaaaU__a`X``_`Y[^¥_U[[Q`T`V]`[]_Z
@HWI-EAS443:3:93:423:1878#0/1
GGGCATTCACCATCCATCTACTAGTGTGCTGACCAACAAAGT
+HWI-EAS443:3:93:423:1878#0/1
`[R]YNZZ^¥TWX^abYaT^T[XWP_XYT]`ZFY¥NZ]JO
@HWI-EAS443:3:93:448:144#0/1
GATGGTAGATGGATGGTACGGTTATCACCATCAAAATGAG
+HWI-EAS443:3:93:448:144#0/1
a`aZM[aZO[a]Z`a_Z`¥`_¥^V¥Y[LLSYV[^[^R^BB
@HWI-EAS443:3:93:49:448#0/1
TTTGCTTCTCTGAGTATTTTGGGTAGTCATAAGTCCCAT
+HWI-EAS443:3:93:49:448#0/1
aaZXWaaa`a_a`aa^aaa_``aa]^a^`W__T_YXX¥^_
@HWI-EAS443:3:93:503:521#0/1
GCCGGGAGACAAAATAACATTCGAAGCAACTGGAAATCTA
+HWI-EAS443:3:93:503:521#0/1
a_a`aa_aa_a`_a`]Z^``_`a_^a`_`]_a_^_^^Z__
@HWI-EAS443:3:93:535:300#0/1
GAACTATTACTGGACTAGTAGAGCCGGGAGACAAAATA
+HWI-EAS443:3:93:535:300#0/1
aaaaa_`aa`a`^`_`a`[Zaa_]`^_a[U^Z]]]Z¥]¥

@HWI-EAS443:3:93:542:1216#0/1
ATTTCCAGTTGCTTCGAATGTTATTTTGTCTCCCGGCTCT
+HWI-EAS443:3:93:542:1216#0/1
`aaa_`^a^_aaa_a_¥aa_a_abaa[ZNa_Wa_W[`^Z
@HWI-EAS443:3:93:55:1833#0/1
GTGTCTGACAAGTTGTATTGCAATCGTGGACTGGTGTATC
+HWI-EAS443:3:93:55:1833#0/1
a_aaaaaabbbbabaabba_bbbaa`a`a`_a]`]aa_
@HWI-EAS443:3:93:575:1379#0/1
TGCTCTTCAGGTCGGCTGCATATCCTGACCCCTGCTCATT
+HWI-EAS443:3:93:575:1379#0/1
`^b[F[[X^^YSW¥R_¥]`]ZaZ¥VSV_]¥Y`XTP]NYXB
@HWI-EAS443:3:93:577:906#0/1
GAGTGATTCACTCTGGATTTCCCAGGATCCAGCCAGCA
+HWI-EAS443:3:93:577:906#0/1
XaU_a¥Vba_a^aba[b`KU^I_a`aZU_a`aaa_J¥Z_a
@HWI-EAS443:3:93:579:179#0/1
GCTTGAACTTCTTGCTGTATCTTGATGTCCCCACAAAAAC
+HWI-EAS443:3:93:579:179#0/1
Zabb]]aJbaabb^V`^[ab]bbb]`]a]IQY[abUXa^`
@HWI-EAS443:3:93:596:17#0/1
GGAAATTGGAAACGGCTGCTTTGAATTTTACCACAAATGC
+HWI-EAS443:3:93:596:17#0/1
a`_`_`_`a`_Z`^_aLO^^FOWXX_[JFXUHVVYVBB
@HWI-EAS443:3:93:601:883#0/1
CACCTTTGTTTCGAGTCATGATTGGGCCATGAACTTGCTT
+HWI-EAS443:3:93:601:883#0/1
aaa_aaab_aaab^b`ab`aaa`a`_`_]_`^`_`]¥aa
@HWI-EAS443:3:93:608:831#0/1
GTCCTCGTCTATGGGCATTACCATCCATCTACTAGTG
+HWI-EAS443:3:93:608:831#0/1
]R¥_aSTOTN`VTF[]WJS__[_UZ¥__I^__^][[ZGRX
@HWI-EAS443:3:93:624:1821#0/1
GCCGGTTTCATTGAAGGGGGTGGACAGGGATGGTAGATG
+HWI-EAS443:3:93:624:1821#0/1
a`aaaY`_`_`_`adWaa`]aa]T_]¥¥_Z¥YQX^^W¥^^BB
@HWI-EAS443:3:93:632:1502#0/1
GGTAAATGTAACATTGCTGGCTGGATCCTGGGAAATCCAG
+HWI-EAS443:3:93:632:1502#0/1
^^E¥a]`_`_Z]`]]_aT[_`Pa[]YV]QXX¥][UXQBBB
@HWI-EAS443:3:93:676:1363#0/1
GGTGGACAGGGATGGTAGATGGATGGTACGGTTATCACCA
+HWI-EAS443:3:93:676:1363#0/1
`_`a`_`_`aaa_a`aW`_`_]a___^¥Na]Y^¥_¥LV_¥U¥
@HWI-EAS443:3:93:710:1438#0/1
AGGGGGTGGACAGGGATGGTAGATGGATGGTACGGTTAT
+HWI-EAS443:3:93:710:1438#0/1
abbaa^]XV_[_`_aaaa`^Sab__aa^[aGa_a`VXZW
@HWI-EAS443:3:93:733:262#0/1
AACGTGTTACCCAGGAGATTTTCATCGATTATGAGGAGCTA

+HWI-EAS443:3:93:733:262#0/1
]a])baa`R^b_^Z_aYaZ]_J`SaZZaW_ZW`aW`XVG
@HWI-EAS443:3:93:753:694#0/1
AGTCCTCGTGCTATGGGGCATTACCATCCATCTACTAGT
+HWI-EAS443:3:93:753:694#0/1
a`[aabbbaaaa_aaS]a_b`aab`R[___U]`_`a[_a^¥
@HWI-EAS443:3:93:754:661#0/1
TGTTATCGCATTGTGGTAAAATTCAAAGCAGCCGTTTCC
+HWI-EAS443:3:93:754:661#0/1
aa_aaaa^a]aa``]a_Za^]_a_^`_^^^_X_^]^^X
@HWI-EAS443:3:93:788:1288#0/1
TTCCAATTGTGATCGGATGTATATTCTGAAATGGGAGGCT
+HWI-EAS443:3:93:788:1288#0/1
a``a````_a_^V]a^Za]][^_Y^Y¥]^_Y^N`VPU
@HWI-EAS443:3:93:797:992#0/1
AGTTGCTTCGAATGTTATTTTGTCTCCCGGCTCTACTAGT
+HWI-EAS443:3:93:797:992#0/1
_¥``_aab`b`aa`¥`[``a`aaa___RRW^]aVTMR_PN
@HWI-EAS443:3:93:838:28#0/1
GATTTCCAGTTGCTTCGAATGTTATTTTGTCTCCCGGCTC
+HWI-EAS443:3:93:838:28#0/1
aLa`_¥¥]a¥`^Z^[[¥^Z`aZ^^`]^Y[KDWSSRBBBBB
@HWI-EAS443:3:93:862:1519#0/1
ATTCGAAGCAACTGGAAATCTAGTGGTACCGAGATATGCA
+HWI-EAS443:3:93:862:1519#0/1
__aa]Y]_____^_____a]^Y_^`X_^W__R_]_Z_¥][Z^
@HWI-EAS443:3:93:878:644#0/1
GTGAAGAACTTATATGAAAAGGTAAGAAGCCAGTTAAAAA
+HWI-EAS443:3:93:878:644#0/1
¥P_^__OSJXa`ZYX]N__KYQS]W[a__PQ`a_^`P[UT
@HWI-EAS443:3:93:948:1150#0/1
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+HWI-EAS443:3:93:948:1150#0/1
QU]a¥¥bb`aab[X_aNZ``^`]R¥R`aYWa`_aWa_^a]
@HWI-EAS443:3:93:968:2036#0/1
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+HWI-EAS443:3:93:968:2036#0/1
aaa`KbaTHGaXa`aa`_`aZO[aTUaX_`^aS``_HY
@HWI-EAS443:3:93:980:822#0/1
CTAGATTTCCAGTTGCTTCGAATGTTATTTTGTCTCCCGG
+HWI-EAS443:3:93:980:822#0/1
aaababbbab`a`ababaabZ]_b_a`baa`a[`a_]R_b
@HWI-EAS443:3:93:988:754#0/1
GGGACATCAAGATACAGCAAGAAGTTCAAGCCGGAAATAG
+HWI-EAS443:3:93:988:754#0/1
_`XTZ[ZW___NTY`¥¥_aaY¥YZW^Wa]]_[[V¥^_^^_
@HWI-EAS443:3:93:989:1827#0/1
AGCTCAATTGCTCTTAGCTCCTCATAATCGATGAAATC
+HWI-EAS443:3:93:989:1827#0/1
aZ^]`aab`aaa]`aa_a]¥`_aa__^aa^¥____[`___]_

@HWI-EAS443:3:93:992:1938#0/1
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+HWI-EAS443:3:94:1030:1133#0/1
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+HWI-EAS443:3:94:105:1528#0/1
ZVa_Z¥_S[\`_]_P]^¥^aaSYPU_S_Q¥XNR][[¥¥_SYS
@HWI-EAS443:3:94:1082:1215#0/1
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+HWI-EAS443:3:94:1082:1215#0/1
aaaaa_aaaaa`¥^^`_`_^a^]^`_^aa`_`_^`¥Z_
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+HWI-EAS443:3:94:116:882#0/1
a_a_¥_aa_`aa][`aXa^_S`]]]^`^`^ZZ_^X^WZ^
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+HWI-EAS443:3:94:1212:950#0/1
¥[aaXbbaW^aV_Uaa_`aa_aZa^¥aaTRaGV`G`X`W
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+HWI-EAS443:3:94:1260:1072#0/1
`[^a]QU`Y¥0[YR_aYO_]XaaY¥^Wa¥^^`_`^`]]]_^
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+HWI-EAS443:3:94:1280:90#0/1
`a`a_a[U```a`aa`_a_`^`N_G_`[\`¥]S]^¥V¥¥
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+HWI-EAS443:3:94:1298:531#0/1
___ZY]_^VHQ]_^QWYaTY^^`RM[R[[^V¥a_YQXOU
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@HWI-EAS443:3:94:1338:808#0/1
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+HWI-EAS443:3:94:1338:808#0/1
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+HWI-EAS443:3:94:133:717#0/1
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_Sa¥b`F`T`ZQ^aa`Q]`a_YYLta]^`V[Y_`[T]W]
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+HWI-EAS443:3:94:1429:1695#0/1
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+HWI-EAS443:3:94:1446:1248#0/1
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+HWI-EAS443:3:94:1471:89#0/1
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+HWI-EAS443:3:94:1567:64#0/1
aY]a¥¥_aaaa[aV^`__V]`_]`^`__[[Y`^_^YU
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+HWI-EAS443:3:94:1594:23#0/1
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@HWI-EAS443:3:94:1675:1086#0/1
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+HWI-EAS443:3:94:1675:1086#0/1
[^aaa_bb_U^]¥_VZba^aZR[^a[^ba__Ya¥]Ra[___
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+HWI-EAS443:3:94:1715:1135#0/1
^[S]^aaVa_aa^`a_ZZ__`[]]``ZO¥_[_aQ[^a`S
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+HWI-EAS443:3:94:1748:1031#0/1
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+HWI-EAS443:3:94:234:742#0/1
a`^`¥`_`ZWY__^[_]^]^^____]Z]]]_¥Y^Z^X]
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+HWI-EAS443:3:94:251:500#0/1
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@HWI-EAS443:3:94:288:293#0/1
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+HWI-EAS443:3:94:288:293#0/1
aa¥`R`YYY^a¥`_¥Y`Z]X_^^^Z_Z¥_aY`_U^¥OFYV
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aa_a`aaa`a_a`a`_`_`Z^__a]_`_`_^`^__]_^_
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+HWI-EAS443:3:94:392:269#0/1
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+HWI-EAS443:3:94:484:287#0/1
^U¥U¥¥WZ¥bbb`a`X`^ZY_^a[`X`[[YZF¥T`^aN_Y
@HWI-EAS443:3:94:512:1406#0/1
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+HWI-EAS443:3:94:512:1406#0/1
¥_V¥[`]^K^XZ__`aaaa[``]a_^`Y`_V_M`¥`aaaa
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+HWI-EAS443:3:94:517:762#0/1
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``ab`aaaa`_a`_ba`baIaa_b`aa___a_a`_a`^a
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+HWI-EAS443:3:94:582:1344#0/1
^`]_VVab¥¥RQXY_¥_U_¥^Z¥W_R[Ua`XVa`aaaQ]¥

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a`aaa`aaaaba^aaa`aaZ`b_a_aaa`aa¥`_`¥V^`a
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+HWI-EAS443:3:94:660:339#0/1
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+HWI-EAS443:3:94:665:739#0/1
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+HWI-EAS443:3:94:667:1342#0/1
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+HWI-EAS443:3:94:705:1739#0/1
aaba`_Yaabb_aaabb`a_abaaa`a_Uaaaaaa^`a_
@HWI-EAS443:3:94:778:677#0/1
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+HWI-EAS443:3:94:778:677#0/1
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+HWI-EAS443:3:94:823:521#0/1
aaa]Naaaa_a^a`aaa_a_`ab_`^`aa`Z^_`]^[^__Z
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+HWI-EAS443:3:94:876:1859#0/1
aaaaY^`^^a`¥a`a`aZa`a_a__`]`[_`____`_`]
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+HWI-EAS443:3:94:915:33#0/1
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+HWI-EAS443:3:94:926:1231#0/1
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+HWI-EAS443:3:94:935:1058#0/1
aZT`a^U_¥`a__T_a`_[a^Z^_Y¥a¥[_`_]`¥WZT^¥
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+HWI-EAS443:3:94:95:1304#0/1
aaa`aaXa^`_`aa_aa`_]_a`^`^_X_V__¥ZW^^`X]OX
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+HWI-EAS443:3:94:967:545#0/1
aaa^Xa`a`_`aa^`a`_[__``_a_¥_]_[__]_dW`]_¥
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+HWI-EAS443:3:94:982:1262#0/1
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+HWI-EAS443:3:95:1011:421#0/1
aa_aaY`baba_aaaa`^aa`_a`aa^`a^a_aa]^`^`
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+HWI-EAS443:3:95:1107:666#0/1
a¥__abb`_`aa`P]^aba]^`a^bYW¥TSQaYPXZT`````
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@HWI-EAS443:3:95:1249:1177#0/1
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+HWI-EAS443:3:95:1249:1177#0/1
]b_b`bbbb`a`bb`_`abbb_bZaabaJaba``]ba`a¥V
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+HWI-EAS443:3:95:1268:1604#0/1
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+HWI-EAS443:3:95:1308:543#0/1
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+HWI-EAS443:3:95:1471:819#0/1
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+HWI-EAS443:3:95:1512:1011#0/1
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+HWI-EAS443:3:95:1616:570#0/1
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+HWI-EAS443:3:95:1668:638#0/1
`aaa_Ta_aa_`aa_aba_]aaa^`a_a]^a]`[aa^^`_`
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+HWI-EAS443:3:95:166:1958#0/1
Lb`[SW_ab```¥YZXWxa_OV¥I¥VTPGR^a[_dW`aa
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+HWI-EAS443:3:95:1748:1791#0/1
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+HWI-EAS443:3:95:1784:1307#0/1
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@HWI-EAS443:3:95:188:608#0/1
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+HWI-EAS443:3:95:188:608#0/1
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@HWI-EAS443:3:95:281:318#0/1
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+HWI-EAS443:3:95:281:318#0/1
a``baaa¥V`a`aaa]baab_X¥¥aaa_``^__``]_H^¥
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+HWI-EAS443:3:95:30:1211#0/1
R_Y`a¥a[V¥¥]`aZaa``bbab_a^^b`Z_`^Z`aa`V
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+HWI-EAS443:3:95:328:786#0/1
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+HWI-EAS443:3:95:338:1253#0/1
ab`aab__a_a`XWR]```[^¥W[^YVP¥U¥PPFTWN`WY
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+HWI-EAS443:3:95:351:918#0/1
U^`b¥abab`b`__baa_bbbq]a`Z^ab^baZ^aaa_``
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+HWI-EAS443:3:95:356:50#0/1
a`ab^aba`baaaa`baaa_TXa[^¥¥`VEK[``__VSW^
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@HWI-EAS443:3:95:47:1465#0/1
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+HWI-EAS443:3:95:47:1465#0/1
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+HWI-EAS443:3:95:520:1752#0/1
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+HWI-EAS443:3:95:629:1412#0/1
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`abaaabbXa`aaa[aaa`aaaa_ba_aa_a```_]_`_
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aa^^Y_b_¥_aZ^a^`a^aa_ba[^`aT_^aa]]a0aa
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¥_ZYX^^¥__¥X_[_¥_U`[^XZ¥Z¥N^¥W¥_Y_PYDWVR
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a^ZY_a]_`[_a^W^]___¥U^_^_] []]^_¥TXU¥Y]]W
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+HWI-EAS443:3:96:1008:829#0/1
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@HWI-EAS443:3:96:1035:1402#0/1
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+HWI-EAS443:3:96:1035:1402#0/1
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GAAAGTTTGGATATTCCTCAAGACAAGTTCATGGCCCA
+HWI-EAS443:3:96:104:565#0/1
a`_`[_b_bb` `aab_a`aa` ` `_]`_`ZX`^^]¥^_VXV
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^bY_X_IOba[[V]`aaa¥W`aUW]`¥`_aPXX^[U¥VN¥
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+HWI-EAS443:3:96:1120:329#0/1
a`aa`_¥Y_Z^¥¥_VFX`^V[WW`S`S^UXS^VVVSU[
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+HWI-EAS443:3:96:112:870#0/1
aa]aP]S_a_`WOZ_a_]aa`S[_`__a_`^_a¥^VU[WX

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+HWI-EAS443:3:96:114:2036#0/1
^`_¥^¥W]]abaaaa`^ZXaZaaa`Y_Ya`aYWSZ^_]X
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+HWI-EAS443:3:96:1172:471#0/1
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aa_Wa`ab_aa_X`_¥Uaa¥X`_Va]_^_¥X^`V]WZ`_^
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+HWI-EAS443:3:96:1298:852#0/1
`_a[[b`¥aaaaaaaaa_a`¥_a`_`¥MU_a`a]X`^^^`
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+HWI-EAS443:3:96:1330:2026#0/1
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GGGGACATCAAGATACAGCAAGAAGTTCAAGCCGGAAAATA
+HWI-EAS443:3:96:1380:1362#0/1
ab_aa`a`_`_a`_a`_aT[a^]`_NUTa`_PF¥Z`^^`_`
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+HWI-EAS443:3:96:1409:736#0/1
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+HWI-EAS443:3:96:1542:1776#0/1
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+HWI-EAS443:3:96:1550:111#0/1
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+HWI-EAS443:3:96:1559:1380#0/1
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+HWI-EAS443:3:96:1565:809#0/1
aaaYb^aVaaaaWb`_`aa^0a¥^a]aX_WW`aa`V[^a_
@HWI-EAS443:3:96:156:308#0/1
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+HWI-EAS443:3:96:156:308#0/1
[`abb[^`Y`]^`aUZ_YY_aRYaaa_ba[aaXa``a`QU]
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+HWI-EAS443:3:96:1610:1796#0/1
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+HWI-EAS443:3:96:1652:1485#0/1
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+HWI-EAS443:3:96:1735:1316#0/1
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+HWI-EAS443:3:96:329:1035#0/1
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S_a`bZ¥Vb¥ZY^a0aaaVTaaRVbMSH_G¥G¥`_`aSHW
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+HWI-EAS443:3:96:366:1221#0/1
a^Z_0_`X[Z][¥RXYaQYWHZWX]¥XPSRV_^`V]XX0T
@HWI-EAS443:3:96:373:1668#0/1
GGGTCTTATTGCTATTTCCGGCTTGAACCTTCTGCTGTAT
+HWI-EAS443:3:96:373:1668#0/1
aa`Ga[]`_`_]_a___aa¥[a]QN^]¥YSRY[V¥]OBB
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+HWI-EAS443:3:96:388:1038#0/1
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+HWI-EAS443:3:96:409:652#0/1
`¥bba_abb^bab`aa__`a¥`a`[[aa`G_X_^_a
@HWI-EAS443:3:96:439:1325#0/1
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+HWI-EAS443:3:96:439:1325#0/1
aaaaS¥`aaaa_a`_`_`aW_]_`_`_`aW^_]_]_X_^X^
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+HWI-EAS443:3:96:440:573#0/1
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@HWI-EAS443:3:96:465:988#0/1
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+HWI-EAS443:3:96:62:1799#0/1
_`baa_a[_Rwa`aabb]_a_a_a]Z¥aaVa_``_a^``^
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+HWI-EAS443:3:96:693:1662#0/1
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@HWI-EAS443:3:96:718:796#0/1
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+HWI-EAS443:3:96:718:796#0/1
aaaaa`a`aa`a_aa`aaa¥`a`Va`a_¥`W`¥Q`
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AGAAGTTCAAGCCGAAATAGCAATAAGACCCAAAGTGAG
+HWI-EAS443:3:96:736:275#0/1
aaa_aX__baa^Xa_^`^`_a`_`_Y^^]OV`_^`R_]`
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+HWI-EAS443:3:96:756:1620#0/1
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+HWI-EAS443:3:96:777:450#0/1
aaaa_aaaaaaUaaa_aaaaX_a[___`W`W^^]¥__^^
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+HWI-EAS443:3:96:790:1748#0/1
aaaa_]T_aaa]Xaa^]TVT[`Z_W¥a`a_¥U]]¥BBBBB
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+HWI-EAS443:3:96:825:1306#0/1
a_]_]_abbbbabbbaaaabb`a`U`abbabab^ba^0``b
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+HWI-EAS443:3:96:866:1886#0/1
_XU_aa[_aa``[aa[`V`G_a`^¥¥LUZ[`^aZZ__WR`
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SVY¥[ba^`_[_ba0Y`Zbb`Y^W¥[^_PW``¥baaba`Y
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+HWI-EAS443:3:96:904:81#0/1
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@HWI-EAS443:3:96:955:296#0/1
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+HWI-EAS443:3:96:955:296#0/1
`X``^00F¥Ya]T0]a_W[YU^Z¥aSU[^aW^^¥¥^OXUB
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+HWI-EAS443:3:96:989:1212#0/1
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+HWI-EAS443:3:96:993:67#0/1
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aa`Z[a_`[`aaa_`^`aaaa_`Xaa_]_`aa¥XV^`[¥P]^
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+HWI-EAS443:3:97:1040:318#0/1
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+HWI-EAS443:3:97:1086:1113#0/1
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@HWI-EAS443:3:97:1143:1612#0/1
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+HWI-EAS443:3:97:1143:1612#0/1
aaU^]a_aa_¥]J]a_aa`Q]Y¥_aQ_aaY_^]UY^^^Z_
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+HWI-EAS443:3:97:115:1239#0/1
a^Y]ZY^Y^^ZX]^VY^XVYYXVYOX]XVYXBBBBBBBB
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^¥H^]baZ_aRaaa`bb]]_^W[a_]]`aaaa^`a^ON
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+HWI-EAS443:3:97:1350:856#0/1
a`bb_baaaaa_aa`bbaa_aa_¥¥^_WWW_^_[^XXT]^
@HWI-EAS443:3:97:1434:366#0/1
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+HWI-EAS443:3:97:1434:366#0/1
ab¥RRL^V_a^a0SR]^¥b]UV`Z^^`PDO___^M`` [
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+HWI-EAS443:3:97:1467:133#0/1
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+HWI-EAS443:3:97:1477:980#0/1
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@HWI-EAS443:3:97:1531:716#0/1
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+HWI-EAS443:3:97:1531:716#0/1
aaW^___aa_]`Qa^_aWSaa_¥¥`^PUP`[]][S]]X[¥
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+HWI-EAS443:3:97:1639:334#0/1
ab`¥`bb¥aT¥]UZ^[Y^a`^ab^aaS][```aa_a``]Z
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GGGACATCAAGATACAGCAAGAAGTTCAAGCCGAAATAG
+HWI-EAS443:3:97:1680:646#0/1
¥0¥__aa[a_[__`]ab¥a`a`aT]^_aWW`]]_]`^Z
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+HWI-EAS443:3:97:1705:1516#0/1
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+HWI-EAS443:3:97:175:1880#0/1
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@HWI-EAS443:3:97:1788:1584#0/1
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+HWI-EAS443:3:97:1788:1584#0/1
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@HWI-EAS443:3:97:182:1203#0/1
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+HWI-EAS443:3:97:182:1203#0/1
ab`Zaa`¥`^a`_aaa__a`a`^a`¥```_`¥^`Y¥_B
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+HWI-EAS443:3:97:214:1749#0/1
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abb`YZ`ab`]S¥abaG^``a`¥aaa^a_a_aaa]¥Ia
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aa]Q]U^aaa^abaa]a¥_aba[`^`^^`__`[``_`^a¥_
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+HWI-EAS443:3:97:331:879#0/1
a[aaX_QRY¥P¥QFZ_¥_Wa]Ya_aW¥Z¥¥WFORWZ^OYB
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+HWI-EAS443:3:97:369:54#0/1
^WPT00_]bb`]``a^¥`T[_W]a[`^`bYFZ__a`[a`YT
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+HWI-EAS443:3:97:378:314#0/1
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+HWI-EAS443:3:97:408:758#0/1
aaa`aa`baa`_`a`ba`__a_a`^Z^]`a[a¥FS]]FRX
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+HWI-EAS443:3:97:421:1289#0/1
^Vba`aa`_a```aaaa`aa`_a_aaT`Y_aT¥]]aZBB
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+HWI-EAS443:3:97:451:422#0/1
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+HWI-EAS443:3:97:470:226#0/1
a`]X#a```_XY_[QJ]#_#]`_#_]]^`_]S]]]#Y^WT
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+HWI-EAS443:3:97:516:1449#0/1
a`a`bbabaVZbab`b#TYa`a_[`a`_a^_a^#a_[Wa`
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+HWI-EAS443:3:97:535:1146#0/1
#^bb_``b`_PXb`^_Q[[]S]a^[baaabXbVaNa^a^V
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+HWI-EAS443:3:97:596:1412#0/1
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+HWI-EAS443:3:97:70:187#0/1
_`^`^`_Y^`^`^_a_Y^#a^]aTZYYPYUPXKRWUZ[X[
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+HWI-EAS443:3:97:794:1584#0/1
aaa^[`a`^`H#aX^ab_b_a]Z__[baa`a`aYaX#aab
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+HWI-EAS443:3:98:1017:1363#0/1
aa]Z`a_]__a`a`M]]YZV`[NZ_`_a^V#^][^YX`[T
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+HWI-EAS443:3:98:1046:410#0/1
abbabb_`aaabaaa`aaa^`_a`a`Ya`a`Z`_`_#`^Z
@HWI-EAS443:3:98:1064:914#0/1
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+HWI-EAS443:3:98:1064:914#0/1
aa`RL#_]`aaS#Y^a]a#Ra`a[[a^_V]a__aY[#_`[`
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+HWI-EAS443:3:98:1070:1433#0/1
^aaa]a]_aa_a]b[abaaabJaaaZa`aaaZ``a_a_`^`

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+HWI-EAS443:3:98:108:555#0/1
aa¥`a¥aa`aaa`_]aa]a_Z^_¥a_a`____]``_^¥]^
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+HWI-EAS443:3:98:1195:846#0/1
H¥¥V````ZSYba`_¥bbab_b^bbbbbbbbb[F]WTV^[
@HWI-EAS443:3:98:1230:1441#0/1
GTTGCTTCCAATGTTATTTTGTCTCCCGGCTCTACTAGTG
+HWI-EAS443:3:98:1230:1441#0/1
^[_a^aU_b]``Y^aab]__¥¥N_X_]`_W[T]YN¥^¥BB
@HWI-EAS443:3:98:1259:1560#0/1
GGGCCATGAACCTTGTCTTGGGAATATCTCAAACCTTCA
+HWI-EAS443:3:98:1259:1560#0/1
abaaaaa^Z^KUaaPSa`b`aa^aa[]N_Taa¥R]a]_`]
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_ba]bbbbbbab^P¥baab_ba`a¥]]a`aa`]a_`Z``_
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@HWI-EAS443:3:98:1354:685#0/1
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+HWI-EAS443:3:98:1379:1452#0/1
Z_¥¥aaa_V[V_U[RO¥aba]ba`b_X¥`^`bT`^R^aa`
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@HWI-EAS443:3:98:146:848#0/1
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+HWI-EAS443:3:98:146:848#0/1
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+HWI-EAS443:3:98:1529:429#0/1
a_N]X_V¥¥^ [¥S^_]U_a____`^_W_`0__W_a^__`]
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+HWI-EAS443:3:98:173:899#0/1
aa`_H_aab`a`aaabb`_a_baaaa`a_a_aa``_a^]_
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+HWI-EAS443:3:98:174:1289#0/1
a_G[¥Q_``ZR[_N_`]W^X[[]YRXHH¥¥]``^RR¥
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+HWI-EAS443:3:98:201:1174#0/1
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@HWI-EAS443:3:98:218:1027#0/1
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+HWI-EAS443:3:98:218:1027#0/1
aaa`aa`_a_a]_a`a`_aXU]`_¥T`¥_[X]]^Z]_`
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+HWI-EAS443:3:98:226:399#0/1
ab`S[b`aa_[`b¥`aaaU`Z^a`_a]T`]¥^ZW__^a]
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+HWI-EAS443:3:98:302:1909#0/1
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_bbba[[_b¥aa^Xaaa_a`^bXa_aa_a__a`_`0a_Y
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+HWI-EAS443:3:98:449:1467#0/1
a`¥_OP`RXYa]R[Z`a[[]HSX`YV`¥U`aPU_UX__¥0¥
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+HWI-EAS443:3:98:481:1695#0/1
a`_a`X]Xa_____^`_`Z^_aa`a_____`_]__`_]_[U¥

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abb`aaabaaYaaabaaaa¥aa__a]S__a`¥¥_[^UY^Q
@HWI-EAS443:3:98:504:492#0/1
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+HWI-EAS443:3:98:504:492#0/1
aa[^¥_`b^`abHQ_`¥bba]`abbbZUZaX`a``][`a_
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+HWI-EAS443:3:98:510:662#0/1
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_[^aa__a^W]```a`a^`_`aa`_a^`_V`__]_`0__
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+HWI-EAS443:3:98:849:1168#0/1
aV[``_`^X^a_[[```ZW¥_`YY_¥`__¥¥W^`MQQ¥WW
@HWI-EAS443:3:98:880:1266#0/1
GGGGCCATTGCCGTTTCATTGAAGGGGGGTGGACAGGGA
+HWI-EAS443:3:98:880:1266#0/1
_¥``__aa_____a`X_a`a`a`[]_a__Z`U__WN]^ZaZ
@HWI-EAS443:3:98:908:1067#0/1
CAGTCTCAATTTTGTGCTTTTTACATATTTTGGACATTTT
+HWI-EAS443:3:98:908:1067#0/1
aab[_babbbabbbbabbbba`bbabbbb¥`_`bbba
@HWI-EAS443:3:98:913:857#0/1
GACAAGTTGTATTGCAATCGTGGACTGGTGTATCTGAAAT
+HWI-EAS443:3:98:913:857#0/1
aa_aab_aaaaaaaaaabaaa_aaa`aaXa^aa_a`]a`a`
@HWI-EAS443:3:98:976:40#0/1
GGGGACATCAAGATACAGCAAGAAGTTCAAGCCGGAAATA
+HWI-EAS443:3:98:976:40#0/1
aaaa]V`a]aYa]___abY`a`_^aVY[`^aU]^ZRR^X
@HWI-EAS443:3:99:1005:413#0/1
CAAGATACAGCAAGAAGTTCAAGCCGGAAATAGCAATAAG

+HWI-EAS443:3:99:1005:413#0/1
_K`b`^^^a^Y^ba`U`W_Z^a^[\`ba_a¥[^aRa^^a`b
@HWI-EAS443:3:99:1146:547#0/1
GATTGCCCCAGGGAGACTACCAGTACCAATGAACTGGCG
+HWI-EAS443:3:99:1146:547#0/1
^¥ZZ`¥Q¥[aaa`ZRaa^^]WD¥^P_]Q]aZ]¥^H_Z[FT
@HWI-EAS443:3:99:1159:1464#0/1
CATCAAGATACAGCAAGAAGTTCAAGCCGGAAATAGCAAT
+HWI-EAS443:3:99:1159:1464#0/1
Vaa^_bbbb_bb[bbbabbbbbba^IababXba`bab_b
@HWI-EAS443:3:99:1180:728#0/1
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+HWI-EAS443:3:99:1180:728#0/1
¥bbbbbbaba`_b_aab`ab_ababa¥a`_bbbbbbb_b`b
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AACTGATTGCCCCAGGGAGACTACCAGTACCAATGAACT
+HWI-EAS443:3:99:1186:405#0/1
aa`_a_bb_[[T]aaab_¥a`X[a_W`a_]ZRZ]b__Ya
@HWI-EAS443:3:99:122:885#0/1
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+HWI-EAS443:3:99:122:885#0/1
aa_^]XZ^)`aa_W_aa_a^[aZ¥ZZ^ZV^¥_UZ[[_W_B
@HWI-EAS443:3:99:1304:222#0/1
GGGACATCAAGATACAGCAAGAAGTTCAAGCCGGAAATA
+HWI-EAS443:3:99:1304:222#0/1
aaaa`^a]_W[a`__ZaaH_a_U[a`T^X^]V`_]^^a_
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GGAAACGGCTGCTTTGAATTTTACCACAAATGCGATAACA
+HWI-EAS443:3:99:1361:373#0/1
ab`aaa`bb`^HTZ_TTYX[aaXJ[_P[]`XXUaPZBBBB
@HWI-EAS443:3:99:1364:469#0/1
AAAAACAATGCCAAGGAAATTGGAAACGGCTGCTTTGAAT
+HWI-EAS443:3:99:1364:469#0/1
ab¥aa_aa`a`b^ba_aaba`YZ¥_Ya^_abP_^_¥S[`
@HWI-EAS443:3:99:1366:113#0/1
CCTCTGAGTATTTTGGGTAGTCATAAGTCCCATTTTGGAC
+HWI-EAS443:3:99:1366:113#0/1
X__bbXbb¥bbbbabbabbaaabbbb`^_abbaabb]^R
@HWI-EAS443:3:99:1380:1720#0/1
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+HWI-EAS443:3:99:1380:1720#0/1
XbaaaabbaabWbbbb¥bbbaKbbbabbbbbbbabb`abb
@HWI-EAS443:3:99:1403:1561#0/1
CAGAATGCAGATGCATATGTTTTTGTGGGGACATCAAGAT
+HWI-EAS443:3:99:1403:1561#0/1
`bb_a`YI^^¥S__b`a`b¥ababaaa¥_`a[^`a__a_a
@HWI-EAS443:3:99:1431:346#0/1
TGTGGGGACATCAAGATACAGCAAGAAGTTCAAGCCGGAA
+HWI-EAS443:3:99:1431:346#0/1
ab_b_bbaaab`_abaa`aaa_abb`_b^a^a_bX^``__

@HWI-EAS443:3:99:143:367#0/1
ATGGTTTCCTGGACATTTGGACTTACAATGCCGAAGTGT
+HWI-EAS443:3:99:143:367#0/1
^``_Ua^a_``_`VX_aaaa`_]_Q¥]aaa`]Y]¥W_]WZ
@HWI-EAS443:3:99:1451:703#0/1
TGTCCCCACAAAACATATGCATCTGCATTCTGATAGAGA
+HWI-EAS443:3:99:1451:703#0/1
¥baab_Xaabb_ababaX_bXbbIab_`a`^`baaa[V]a
@HWI-EAS443:3:99:149:1443#0/1
TTCCTTGGCATTGTTTTTAACTGGCTTCTTACCTTTTCA
+HWI-EAS443:3:99:149:1443#0/1
^bb¥KRS_Y__X_TZZ]PU`aRXXa]V¥OGZ[WU¥YW[RB
@HWI-EAS443:3:99:154:472#0/1
AGTTGATGATGGTTTCCTGGACATTTGGACTTACAATGCC
+HWI-EAS443:3:99:154:472#0/1
``bbbbbbbbbbbabbb^bbbaa`bbbbbb]¥_a_]W]__`
@HWI-EAS443:3:99:1651:1223#0/1
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+HWI-EAS443:3:99:1651:1223#0/1
aWG[``^`YaV_SRaY_bb[]^bZ¥VHXa`a]b]L]^`
@HWI-EAS443:3:99:1670:688#0/1
GGGACATCAAGATACAGCAAGAAGTTCAAGCCGAAATAG
+HWI-EAS443:3:99:1670:688#0/1
abaa_bbab`aaabbbbabbbbaa^a`aa`__ab`__aab
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TAAGAAGCCAGTTAAAAACAATGCCAAGGAAATTGGAAA
+HWI-EAS443:3:99:172:1184#0/1
_b`baa]bbb^bbbbbaa_b`abaZ`a_a`a```a_aa^
@HWI-EAS443:3:99:1745:886#0/1
AGGAGATTTTCATCGATTATGAGGAGCTAAGAGAGCAATTG
+HWI-EAS443:3:99:1745:886#0/1
a_K]^`aaaa[]a``]_aa]SX_^X_a`_^¥[_R__^Z`
@HWI-EAS443:3:99:1781:1148#0/1
CGGCTCTACTAGTGTCCAGTAATAGTTCATTCTCCCTTCT
+HWI-EAS443:3:99:1781:1148#0/1
ab_``a`a]b`R¥PZ¥]Za]Za]]¥aaa_a`I`]]T_¥G_
@HWI-EAS443:3:99:209:1955#0/1
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+HWI-EAS443:3:99:209:1955#0/1
`baaabb]babbbba`aa`a[bZbaY^a_a]`ab````^_
@HWI-EAS443:3:99:249:1365#0/1
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+HWI-EAS443:3:99:249:1365#0/1
a_`aaaa_aaaX``aaa`__a_W``____Y_``[____^
@HWI-EAS443:3:99:26:1194#0/1
CATTCTGTGTGCTCTTCAGGTCGGCTGCATATCCTGACCC
+HWI-EAS443:3:99:26:1194#0/1
aaaaabbab`baaaaab`_`_Vbaabaa^Z`_^_a_aaZY_
@HWI-EAS443:3:99:299:568#0/1
CCATGAGCTTGCTGTGGAGAGTGATTACACTCTGGATTT

+HWI-EAS443:3:99:299:568#0/1
`a]b^W_TY_^]_]_aXbZa`^WUa`_aaT_PWJ¥__
@HWI-EAS443:3:99:319:1084#0/1
GATGAAATCTCCTGGGTAACACGTTCCATTGTCTGAACTA
+HWI-EAS443:3:99:319:1084#0/1
WZ¥ZZ^^¥]T^`¥a^__`[TZZ_WKY`X]¥M^`V^W]_
@HWI-EAS443:3:99:31:705#0/1
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+HWI-EAS443:3:99:31:705#0/1
aaVb]aaaa`T`]_^Z^]aaR^]`Y__`U^Z[`aP]a`^
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+HWI-EAS443:3:99:321:1290#0/1
aaaV_aa^`Zybaaa`^V`UQXaZ^]a^XP[___aUaZY
@HWI-EAS443:3:99:346:1304#0/1
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+HWI-EAS443:3:99:346:1304#0/1
]b[bbbbabbb`b`bbb`]bababa_`Uabaabaaaab^a
@HWI-EAS443:3:99:356:1453#0/1
GAAGCTTTTTGCTCCAGCATGAGGACATGCTGCCGTTACA
+HWI-EAS443:3:99:356:1453#0/1
abb]abb]`[aba`ab`ababa]_abaaab`UFWaVa__a
@HWI-EAS443:3:99:366:1752#0/1
GGGACATCAAGATACAGCAAGAAGTTCAAGCCGAAATAG
+HWI-EAS443:3:99:366:1752#0/1
`U_XVXVUaPU`YW`SWW`ZZ[XZL]]]aWJW_`]]PXWB
@HWI-EAS443:3:99:375:335#0/1
TCGAATGTTATTTTTGTCTCCCGCTCTACTAGTGTCCAGT
+HWI-EAS443:3:99:375:335#0/1
a`aabab]abba`aaaaaa]aa_^¥^`__`X_^YWW`[
@HWI-EAS443:3:99:418:29#0/1
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+HWI-EAS443:3:99:418:29#0/1
aab`aa`aaaaaaY_W_`_`Y`¥a___Yaa^_a[_BBBB
@HWI-EAS443:3:99:421:252#0/1
CTTCTCTGAGTATTTTTGGGTAGTCATAAGTCCCATTTTT
+HWI-EAS443:3:99:421:252#0/1
[_baY`_bbba`_bbba]baabaabbab^a__abaaba
@HWI-EAS443:3:99:454:1257#0/1
GTTACCCAGGAGATTTTCATCGATTATGAGGAGCTAAGAGA
+HWI-EAS443:3:99:454:1257#0/1
_aaa_a`aaa_aaaaa_a^b`^a^_a__`^`__`__^
@HWI-EAS443:3:99:462:1216#0/1
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+HWI-EAS443:3:99:462:1216#0/1
aa`aaa`aaaa_a__`aaaa`__a]^]b^`¥X`_]]^
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GCTTCTCTGAGTATTTTTGGGTAGTCATAAGTCCCATTTTT
+HWI-EAS443:3:99:483:1956#0/1
ab^^aaaa]_aaXYb^_aa]b_]WLUT]¥_aZU^^Y_```

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GCTGTATCTTGATGTCCCCACAAAAACATATGCATCTGCA
+HWI-EAS443:3:99:535:958#0/1
aaaaR_a_a_aaa`__a^a]¥X_X]^`W_[]`^^^SMW`X]
@HWI-EAS443:3:99:53:523#0/1
ATTTGCTGAGCTTTGGGTATGAATTTCTTTTTTAACTAG
+HWI-EAS443:3:99:53:523#0/1
`_Ya`_baRaba`ba^a_ZU`^^`a]YW]aaaa`YL¥a``
@HWI-EAS443:3:99:550:1596#0/1
TAGATTTCCAGTTGCTTCGAATGTTATTTTGTCTCCCGGC
+HWI-EAS443:3:99:550:1596#0/1
abaaaaaaaa`a_aa`a`a^aaaUa`a`aa¥`_a]___^X
@HWI-EAS443:3:99:559:996#0/1
AACCGTACCATCCATCTACCATCCCTGTCCACCCCTTC
+HWI-EAS443:3:99:559:996#0/1
a]_`_^ab^`_Xa`]__X_[¥a`^^_a¥__a_W^[V_]QX
@HWI-EAS443:3:99:608:1094#0/1
GACACTTCCATGCACGTGTTATCGCATTGTGGTAAAAT
+HWI-EAS443:3:99:608:1094#0/1
aba`abbabbaabaaab^`^aaaaaaaa`aa[aa]b`a`a
@HWI-EAS443:3:99:632:1627#0/1
GAACTGTGTATTCATCTTTTCAATAACAGAATTTACTTTG
+HWI-EAS443:3:99:632:1627#0/1
a`_TX]U`Iaaa]`¥`aaa```a`_`¥aa`^`__a_]``^a
@HWI-EAS443:3:99:639:751#0/1
GGCTGGATCCTGGGAAATCCAGAGTGTGAATCACTCTCCA
+HWI-EAS443:3:99:639:751#0/1
¥_]abba`]aaaabaaba`a`bS_PW`a`Zaa^`_[]¥Z`
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GGACATCAAGATACAGCAAGAAGTTCAAGCCGAAATAGC
+HWI-EAS443:3:99:673:1277#0/1
ab][_[^¥YX^ODY¥a]Y]a[^]MLWU`_UXaWTKS^[UU
@HWI-EAS443:3:99:723:886#0/1
CATCCATCTACTAGTGCTGACCAACAAAGTCTCTATCAGA
+HWI-EAS443:3:99:723:886#0/1
abaa`aaaaa]baa`a`baaa`a`_`_XW]_``_a`a^aa`
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GCCGGTTTCATTGAAGGGGGTGGACAGGGATGGTAGATG
+HWI-EAS443:3:99:752:192#0/1
aZ``a`]a]^a`a__a`a`_`[Ta[YY^a]`¥^`^WYYUSY
@HWI-EAS443:3:99:814:1019#0/1
CACCATCCATCTACTAGTGCTGACCAACAAAGTCTCTATC
+HWI-EAS443:3:99:814:1019#0/1
abbaabb^abbababaa`bbbabbabbbbab`^babba_
@HWI-EAS443:3:99:826:816#0/1
AATCGATGAAATCTCCTGGGTAACACGTTCCATTGTCTGA
+HWI-EAS443:3:99:826:816#0/1
ab_`^``aaaaa```aaaaa^^`aa`_`^`_¥aa_aYL_`_
@HWI-EAS443:3:99:841:596#0/1
GCTCCTCATAATCGATGAAATCTCCTGGGTAACACGTTCC

+HWI-EAS443:3:99:841:596#0/1
a_a^]`__YZ]`_`_[a^`VaS^_a__TWY]`U_Z^R_
@HWI-EAS443:3:99:877:1148#0/1
GACACTTTCATGCACGTGTTATCGCATTGTGGTAAAAT
+HWI-EAS443:3:99:877:1148#0/1
P_¥¥_¥^T`XX_``b_bYbb_bb_``a_WX^`a¥a`
@HWI-EAS443:3:99:930:92#0/1
GAACTCTTTACCTACTGCTGTGAACTGTGTATTCATCTTT
+HWI-EAS443:3:99:930:92#0/1
aaa`babaaa`abbabbababbaa]ababaabbWabYaab
@HWI-EAS443:3:99:968:336#0/1
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+HWI-EAS443:3:99:968:336#0/1
aY`aaabbaaaaa`aaaa__a`aa^[]`a`__`[_`[B
@HWI-EAS443:3:99:998:710#0/1
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+HWI-EAS443:3:99:998:710#0/1
aaa`a`U`a`_`_`_a`aa`__aa`_^`a`_^`[]`_`
@HWI-EAS443:3:9:1004:1117#0/1
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+HWI-EAS443:3:9:1004:1117#0/1
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GCACATCCAGAACTGATTGCCCCAGGGAGACTACCGT
+HWI-EAS443:3:9:1009:1979#0/1
aab¥ba_[b_baaYaaa`a_Z^[Qa_^__^aW__W¥__T
@HWI-EAS443:3:9:1192:574#0/1
CAGAACTGATTGCCCCAGGGAGACTACCGTACCAATG
+HWI-EAS443:3:9:1192:574#0/1
ab``a_abbabbbbaaZaababa`aaaaaa^``_aa^`_aa
@HWI-EAS443:3:9:1205:131#0/1
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+HWI-EAS443:3:9:1205:131#0/1
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@HWI-EAS443:3:9:1250:1754#0/1
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+HWI-EAS443:3:9:1250:1754#0/1
^aUbUbZabba`ZQ_ZabZba^aa`a]ba^`b`a]aISbQ
@HWI-EAS443:3:9:1258:1125#0/1
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+HWI-EAS443:3:9:1258:1125#0/1
`babaab^^b_ZbabU`aba__aa`^VZ_b`aaZa`^¥`^
@HWI-EAS443:3:9:1349:1349#0/1
CTCGTGCTATGGGCGATTACCATCCATCTACTAGTGCTG
+HWI-EAS443:3:9:1349:1349#0/1
_a[[]Y_IUX_bV^OQ`_ab]Q]aWU]`_Zba^X`[`Xaa
@HWI-EAS443:3:9:1381:811#0/1
CCATGAACCTTGCTTGGGGAATATCTCAAACCTTTCAAAT
+HWI-EAS443:3:9:1381:811#0/1
a¥bbb]_abbb`aabb``]_aa_b`a`_aa_aaba_a_aa

@HWI-EAS443:3:9:1412:1299#0/1
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+HWI-EAS443:3:9:1412:1299#0/1
aa`aaaaaaa___`_a^`_]aZ^`_]X_a^^^Z_]¥Z___
@HWI-EAS443:3:9:1415:2024#0/1
AGCTCCTCATAATCGATGAAATCTCCTGGGTAACACGTTCC
+HWI-EAS443:3:9:1415:2024#0/1
aba`XY`_aaaaaQbaY`````_[aMZ¥a`aV````aYVPZT
@HWI-EAS443:3:9:1415:251#0/1
CATTGCTGGCTGGATCCTGGGAAATCCAGAGTGTGAATCA
+HWI-EAS443:3:9:1415:251#0/1
ababbbbbbaaa`_aZ_aaab__a`¥N_a^_WaW``^]X^
@HWI-EAS443:3:9:1529:593#0/1
GCTTCCTCTGAGTATTTTGGGTAGTCATAAGTCCCATTTT
+HWI-EAS443:3:9:1529:593#0/1
a`ba`]a^aa_a__aa`aa`Y``]`]^a^^ZXZZ_a^``
@HWI-EAS443:3:9:1595:1380#0/1
GGGAGGCTGGTGTATATAGCACCTTGGGTGTCTGACAAG
+HWI-EAS443:3:9:1595:1380#0/1
aabHba__bb_aaa]aaabWaQH][__a`X_URaaWN[Ya
@HWI-EAS443:3:9:1620:488#0/1
CATGCGAACAATTCAACAGACACTGTAGACACAGTACTAG
+HWI-EAS443:3:9:1620:488#0/1
aab`_bbbbbbbbb¥bbabbbab_bb`abaUa_ab_a[aa`
@HWI-EAS443:3:9:1767:640#0/1
ATTTTACCACAAATGCGATAACACGTGCATGGAAAGTGTC
+HWI-EAS443:3:9:1767:640#0/1
abaab`Q``_aaaaaaaaa`Y_Y__aHa_a`_`¥YP_]G
@HWI-EAS443:3:9:1782:1096#0/1
AGTAGATGGATGGTGAATGCCCCATAGCACGAGGACTTCT
+HWI-EAS443:3:9:1782:1096#0/1
_XWQ_YSab_bZbTa¥Zab`]WX[]¥X[SV``_`BBBBBB
@HWI-EAS443:3:9:198:615#0/1
TGGGGCATTACCATCCATCTACTAGTGCTGACCAACAAA
+HWI-EAS443:3:9:198:615#0/1
Vaabaabaaabaaaaaba`abaaa`_a`aaaa`````]_`
@HWI-EAS443:3:9:204:2034#0/1
CACAAATGCGATAACACGTGCATGGAAAGTGTCAAAAATG
+HWI-EAS443:3:9:204:2034#0/1
abaabbab`aaa_a^_bW_aba^`_b_baR___bbbaa`_`
@HWI-EAS443:3:9:284:268#0/1
GGGGACATCAAGATACAGCAAGAAGTTCAAGCCGAAATA
+HWI-EAS443:3:9:284:268#0/1
a_____ZQ¥`UZ^`]_V__^^```_[^YW_^_V]X]_XXVVY
@HWI-EAS443:3:9:306:462#0/1
AGCCAGTTAAAAACAATGCCAAGGAAATTGGAAACGGCT
+HWI-EAS443:3:9:306:462#0/1
```a`\_W\_Tabaaa\_a`a`U`a\_a[[[]a``]TS]]\_ZBB  
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+HWI-EAS443:3:9:392:678#0/1  
aaaa\_aaaaa`a^a`\_a`\_\_a`aa\_[`a\_\_aa`\_`\_^a\_  
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AAAACATATGCATCTGCATTCTGATAGAGACTTTGTTGGT  
+HWI-EAS443:3:9:39:82#0/1  
^aaaaabaaa`aabab]a``¥````\_``\_^^ZX`¥¥]\_X  
@HWI-EAS443:3:9:422:394#0/1  
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+HWI-EAS443:3:9:422:394#0/1  
abXa``^`aa``a`aaaaZaaa\_aa`\_aa^¥`[\_aa¥¥\_`^  
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+HWI-EAS443:3:9:445:1432#0/1  
aabbbaababbbb``b\_b^`ba^V`aa¥XYabaaa`aaaa  
@HWI-EAS443:3:9:47:518#0/1  
ATGTTTTTGTGGGACATCAAGATACAGCAAGAAGTTCAA  
+HWI-EAS443:3:9:47:518#0/1  
¥¥^^`¥Y¥MZ\_ZZ]bb`[\_X[P\_Z`\_\_^Z^\_XU\_XQO]Y  
@HWI-EAS443:3:9:483:855#0/1  
GTGTATTCATCTTTTCAATAACAGAATTTACTTTGTTAGT  
+HWI-EAS443:3:9:483:855#0/1  
\_0^V\_]`^¥¥^\_\_[\_a^]\_^\_ZZ\_\_^`^`aVY[aaaa[^aa[  
@HWI-EAS443:3:9:534:1727#0/1  
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aba^a`Z`a\_S`aaaa\_a`a`aa]a¥````\_a`\_^\_\_^a[  
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¥W]a¥abbaYV`b`a\_RZ¥bPZZ^`^`aaa\_]aaQU\_U\_X  
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+HWI-EAS443:3:9:60:1511#0/1  
aaa`\_`a^a^a^`aa]``^`\_\_\_]\_WZ`^^\_ZX^PMN]]\_B  
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+HWI-EAS443:3:9:639:903#0/1  
^^YbbaZ^ab`\_baZYb¥a\_bab``ab`]a\_aaaaa\_baa  
@HWI-EAS443:3:9:661:208#0/1  
GGGACATCAAGATACAGCAAGAAGTTCAAGCCGAAATA  
+HWI-EAS443:3:9:661:208#0/1  
aSjW\_¥^YP`[\_^¥\_`a`SXaYS`\_RZV\_XZXZ^XZ^ZZ^

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ab\_¥a]abaaaa\_`aa`aa`\_U`aaaa\_aaa`aa\_]a  
@HWI-EAS443:3:9:712:54#0/1  
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+HWI-EAS443:3:9:712:54#0/1  
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+HWI-EAS443:3:9:722:1744#0/1  
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+HWI-EAS443:3:9:747:2016#0/1  
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+HWI-EAS443:3:9:776:37#0/1  
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+HWI-EAS443:3:9:789:577#0/1  
`^Z``Za`0aa`\_`Z]N]ZXa\_^a^\_Y[^\_Y^P^ZV`\_\_¥  
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+HWI-EAS443:3:9:80:935#0/1  
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+HWI-EAS443:3:9:821:1848#0/1  
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+HWI-EAS443:3:9:827:1213#0/1  
`[```a`aUbaaaaa`\_a[N\_Z¥a[^a[\_baX\_\_S`ZZ]G  
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aba¥`a^\_a\_a`a]`aaa][\_a`^\_\_`a``a``\_[-`^^  
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+HWI-EAS443:3:9:900:1545#0/1  
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+HWI-EAS443:3:48:666:243#0/1  
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a\_aS^ab`aZ``\_a¥0^aaaaba\_aba\_^DSY\_a[DD¥`Y  
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+HWI-EAS443:3:16:880:387#0/1  
ab\_a]bbab``a`\_`\_aaa\_`]\_a]``^U]a\_\_\_\_][U^\_  
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+HWI-EAS443:3:30:791:1380#0/1  
^^``\_`aaa\_`^`aaa`a````¥[``\_W\_\_^X`\_a[TW[]  
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+HWI-EAS443:3:64:412:595#0/1  
ab`^Yaaaaaa\_\_\_\_[J]\_U`\_`¥``\_`^a\_\_¥\_`V`¥`¥V  
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+HWI-EAS443:3:37:1072:398#0/1  
]\_¥`baa^\_¥\_`\_a¥XP\_]M[QZ¥a\_OT[L\_\_WaaVUU[W  
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+HWI-EAS443:3:33:958:1061#0/1  
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+HWI-EAS443:3:88:1601:1908#0/1  
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+HWI-EAS443:3:94:1298:1692#0/1  
a\_`\_\_a]W`^^aVXY^Z\_¥`¥W^ZIT¥YIWPaZX¥BBBB  
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+HWI-EAS443:3:37:820:538#0/1  
aa\_``[aaaa`¥¥\_\_¥¥\_a\_]a`\_\_\_\_^^U\_¥\_Y¥¥\_¥¥¥  
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CACCTCCACTCCTGGTCCTTATGGCCCAGTATCTGCTTCT  
+HWI-EAS443:3:59:1006:1046#0/1  
aaa`a^X^aaaaa]\_Z\_\_aa\_\_^^a`a\_dW]V^`SNM\_N¥  
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+HWI-EAS443:3:14:789:232#0/1  
a`\_\_`\_a`\_\_]\_^]\_\_W]\_^\_a`^YV^¥`YVNMX]^Y^Y^Y^  
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+HWI-EAS443:3:22:1396:1256#0/1  
`\_^`\_\_a`\_\_\_\_^[][\_`\_Y`^Y`¥\_VKULK^^`^^¥^  
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+HWI-EAS443:3:22:761:1788#0/1  
`]^RWZa^`abVa``[``¥aaXV`X[``\_]PY``a\_V]`  
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GAAGCAGATACTGGGCCATAAGGACCAGGAGTGGAGGAAA  
+HWI-EAS443:3:26:1613:1623#0/1  
aVaa\_\_bX\_a`a\_\_\_\_Z\_\_```a`\_]`^aaXa]a`]`\_X\_^  
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``]`U`^aaa`aabG\_]a\_\_aa^¥[Zaa^\_Ya\_¥`\_\_Z\_  
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a^` [a` [V\_LX]a\_JQa\_\_\_\_` `YPMX[^P`]U^WR[SZ  
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+HWI-EAS443:3:68:307:99#0/1  
aaaaaaaa\_\_[^Z\_\_\_\_a]\_a`\_Z`\_[]\_]VYV`]^\_¥VL]  
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+HWI-EAS443:3:8:1127:347#0/1  
aX]^aab\_a`aaa`\_]\_a\_\_b` [NR¥`\_Ya]\_^UaaZ\_\_  
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+HWI-EAS443:3:97:744:930#0/1  
¥^` [¥ab¥]W` [HXabaab[aa`ZbXF\_\_R`a[IT[FOaB  
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^` `Y`¥b¥SZ`S]H^^aY¥RZVYa\_aaba[0\_[aR]a\_\_J  
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GGGAATATCTCAAACCTTTCAAATGGTGACACTGAGCTCA  
+HWI-EAS443:3:99:183:1546#0/1  
a¥W\_]a]WX¥\_abaYQYa¥` [\_aX\_XF[^\_a\_[\_\_]\_^T\_

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a\_U[]X]TaYa`baba^]S`]a[[ab[aa^bb\_a[]a`SY  
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+HWI-EAS443:3:39:1216:1073#0/1  
H\_b\_X\_aa^`bba^a^`abbb``S[``babba``X`b`\_X`  
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+HWI-EAS443:3:3:1240:1196#0/1  
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+HWI-EAS443:3:10:949:1370#0/1  
``aa`aZ`a`aa\_\_`a`\_`\_`\_¥a^\_\_`^^\_]^[YVV^]  
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+HWI-EAS443:3:15:527:954#0/1  
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+HWI-EAS443:3:15:634:655#0/1  
aa[\_`Z^\_]Zaa\_]`a\_\_`Y\_\_]\_^¥^\_Z^^]^^^\_]^^\_]`  
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aa^a`baWab\_b¥`aaaaS¥aaa\_a\_``a`\_aa``\_`\_]`  
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^\_¥Z¥`Y¥^^^b¥bb`b``a`X[]¥\_UUa\_S\_b`a]]Va]  
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+HWI-EAS443:3:28:801:1561#0/1  
`^¥a`^bbaaa\_a^baa]a`aaa\_a\_^`\_\_a\_a`^`\_`\_\_  
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+HWI-EAS443:3:29:446:975#0/1  
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+HWI-EAS443:3:31:1334:1029#0/1  
aabaabaababbababb`babaab`bbbaaaaaa`aa\_  
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+HWI-EAS443:3:34:1547:376#0/1  
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+HWI-EAS443:3:38:168:1334#0/1  
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^SOV^YU`VLOY\_[¥[\_a^SPX]YUYTXTUWHVVRWWW

@HWI-EAS443:3:43:205:599#0/1  
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+HWI-EAS443:3:43:205:599#0/1  
aa``[``a`a`aaaa]\_``\_\_\_\_\_¥[``\_]\_^^\_^]\_\_\_\_\_]]^  
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+HWI-EAS443:3:46:606:957#0/1  
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+HWI-EAS443:3:48:1614:516#0/1  
a`ZU\_aW\_\_\_\_Wa^[X``aaY]\_]^]¥\_\_\_\_^\_TV`\_WNZU^  
@HWI-EAS443:3:48:539:421#0/1  
GGGAATATCTCAAACCTTTCAAATGATGACACTGAGCTCA  
+HWI-EAS443:3:48:539:421#0/1  
a¥^W^\_¥`Wa^]\_]¥^`^^^W\_aV^^\_T\_^^`Z^UUV\_  
@HWI-EAS443:3:49:1458:164#0/1  
CTTGGGGAATATCTCAAACCTTTCAAATGATGACACTGAG  
+HWI-EAS443:3:49:1458:164#0/1  
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@HWI-EAS443:3:49:370:75#0/1  
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+HWI-EAS443:3:49:370:75#0/1  
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@HWI-EAS443:3:51:15:1181#0/1  
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+HWI-EAS443:3:51:15:1181#0/1  
abbbba\_\_a`abaaaaaaa\_`aaaa`a^aa\_a`^aa\_\_\_\_`  
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+HWI-EAS443:3:54:292:1088#0/1  
aaX[bb]Wa]Ya\_b\_aaW]`a[a`aT[``b`^\_``\_\_\_\_`\_a  
@HWI-EAS443:3:57:930:1020#0/1  
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+HWI-EAS443:3:57:930:1020#0/1  
aaV\_aab\_]b^aaa`ab]V`a\_`a`aa¥aa^aa[a]¥¥\_`  
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+HWI-EAS443:3:59:1772:919#0/1  
a\_\_\_\_`b^baa\_b^\_¥`aa^ba`^R]Z^QJWYM  
@HWI-EAS443:3:5:1117:739#0/1  
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+HWI-EAS443:3:5:1117:739#0/1  
aa`aa]b\_aY`]]\_a`a`\_a`a\_\_a\_[a[`a^`][^^  
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+HWI-EAS443:3:60:108:433#0/1  
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+HWI-EAS443:3:61:1644:855#0/1  
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+HWI-EAS443:3:61:786:1026#0/1  
aa\_`[]Ya^``\_ZL]aaa¥`Z][V[^\_W]\_[a\_¥Y[[VYX  
@HWI-EAS443:3:61:904:1315#0/1  
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+HWI-EAS443:3:61:904:1315#0/1  
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@HWI-EAS443:3:63:433:551#0/1
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+HWI-EAS443:3:63:433:551#0/1
abab`a^aaaa`aaa`aaa]aaa^````a_``_`^a
@HWI-EAS443:3:64:101:525#0/1
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+HWI-EAS443:3:64:101:525#0/1
a``_]`^`aaXa_a`a`aaaa`a_`aaYa`a`a_```_`^
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+HWI-EAS443:3:64:1267:1181#0/1
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@HWI-EAS443:3:65:969:1167#0/1
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+HWI-EAS443:3:65:969:1167#0/1
`¥aa]T_^a^a]ba^``babaZa_¥a`bbaa^aaaaaWa]
@HWI-EAS443:3:67:1407:1019#0/1
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+HWI-EAS443:3:67:1407:1019#0/1
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+HWI-EAS443:3:6:228:1956#0/1
¥aaXa`b`¥0]ba^aV^Ta`^^a_a]Yaaaa]^`H`^Y`
@HWI-EAS443:3:70:103:1716#0/1
TGGGAATATCTCAAACCTTTCAAATGATGACACTGAGCT
+HWI-EAS443:3:70:103:1716#0/1
a^aaa_T^^bbabbb_`baaaba_a__aa_aaaa__^`a_

@HWI-EAS443:3:72:1190:537#0/1
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+HWI-EAS443:3:72:1190:537#0/1
¥b_bba`]`baab`_`bbSbbaaa]_a`ba`bb[bYa`ab
@HWI-EAS443:3:77:777:400#0/1
CTTGGGAATATCTCAAACCTTTCAAATGATGACTGAG
+HWI-EAS443:3:77:777:400#0/1
a`^aabbab_]`bb¥aab`babbab^aa`abb_baUbab
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@HWI-EAS443:3:81:1038:1029#0/1
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+HWI-EAS443:3:81:1038:1029#0/1
^a`aa^ba]`_^a¥`_^¥^aa_XY`aaa^`aa]_a`¥[U
@HWI-EAS443:3:82:125:432#0/1
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+HWI-EAS443:3:82:125:432#0/1
aaaa`_`aaaaabaaa`a`aaa`aa`_aa`_a`a_a__`
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+HWI-EAS443:3:83:254:1871#0/1
¥Z_aa`_Xaaa__¥U__[W`aa`^Y_]````_[]__aZ`
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+HWI-EAS443:3:84:1169:403#0/1
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@HWI-EAS443:3:89:861:1825#0/1
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aaaa`aWW_a[bb]aaaaabaaaa_[^a]_a`a^a_a`__
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CTTGGGAATATCTCAAACCTTTCAAATGATGACTGAG
+HWI-EAS443:3:8:1121:2043#0/1
^^bb_a^^bbbbbVbbbb`^^b`bb¥bbbbbbb]baabbb
@HWI-EAS443:3:8:152:547#0/1
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+HWI-EAS443:3:8:152:547#0/1
abbbabbY`babaabaa_a`aa`aa`aa_aaaa_____`
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+HWI-EAS443:3:8:66:364#0/1
abababaa]_^aa_aaaaaa¥`_]`[a]`__a__a`¥aa_
@HWI-EAS443:3:90:833:228#0/1
GCTCAGTGCATCATTTGAAAGTTTGAGATATCCCCAA
+HWI-EAS443:3:90:833:228#0/1
a]baaa`b^¥aa_aabab```aa]`aa_a]`aa[`¥_]```
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^baVTaa__b_abb¥a_bbaabaa`aaaab`a_Ya`a`_]_
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+HWI-EAS443:3:95:541:112#0/1
aaaa_ab`a`aa^_baaa_`b_]`aa`a`_aa^_]_]_
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aabb_`babbabaaabbbbaabbb__aabaaaaaaaa`aa
@HWI-EAS443:3:98:792:797#0/1
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abbbbbba`babbbbbbaabbbabaabbbabbbb`abab
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+HWI-EAS443:3:99:1100:625#0/1
a_]_PXa]FYU`Zaa¥SX`a_a`_`_Z[_`_]Yaa_^H_]_
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+HWI-EAS443:3:100:1412:263#0/1
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@HWI-EAS443:3:38:1230:1098#0/1
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+HWI-EAS443:3:38:1230:1098#0/1
^_b]b]baabaaa_Y¥aba^]aababZ^bYXR`[DX]a_[
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+HWI-EAS443:3:86:1044:1430#0/1
`a__OXs`Y`aM`_aaaa^a_aZ[`aXa`]ZDW`_]`¥
@HWI-EAS443:3:8:1371:1656#0/1
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+HWI-EAS443:3:8:1371:1656#0/1
abVMTZV_RL¥[WR`a`L^VWb^`_^aaY`XXa]`HX[HQ
@HWI-EAS443:3:80:123:1287#0/1
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+HWI-EAS443:3:80:123:1287#0/1
^HLX_^V_a`[___[[_T^U[¥UVV_¥¥_a`W__`¥_¥W_
@HWI-EAS443:3:64:922:1244#0/1
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+HWI-EAS443:3:64:922:1244#0/1
a`aa`aaaaba_a`aa`a`_`aaa__Zaaa__a`__^

@HWI-EAS443:3:8:1248:859#0/1
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+HWI-EAS443:3:8:1248:859#0/1
_P_XZ^a_a`Z`aX^__[_Q]¥S[V[[YNVNZ[U_SNOB
@HWI-EAS443:3:13:1335:379#0/1
GTTGAACCTTGCATTAGAGAACACATTCTGGGATCCATTC
+HWI-EAS443:3:13:1335:379#0/1
a^b`a]_`^`_a_]aX_]_Y]X^`^U__^XXUY]_^W
@HWI-EAS443:3:1:956:1656#0/1
GATCCCAGAATGTGTTCTCTAATGCAAGTTCAACTTC
+HWI-EAS443:3:1:956:1656#0/1
a`a0^Z`_`^aV`^`X_Ya``_Z^`_VNTV__Z^BBB
@HWI-EAS443:3:22:1030:369#0/1
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+HWI-EAS443:3:22:1030:369#0/1
ab_`bb[ba`aabaaaaa]`a_``aa^`_a__`^^`__
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+HWI-EAS443:3:23:937:1412#0/1
a]YaZ`_a_Y¥`Z`a`aaaa`]a`b^a`_a_a]`a^_
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+HWI-EAS443:3:24:405:167#0/1
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+HWI-EAS443:3:26:588:707#0/1
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+HWI-EAS443:3:33:528:369#0/1
abb`ab`bb`babbaaaaaabaaaW`aba¥_`]^__`
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+HWI-EAS443:3:33:771:745#0/1
¥abb_^]bbbaa]ab_abbabab_ab_baaaa_^a[_aaa
@HWI-EAS443:3:3:1367:1421#0/1
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+HWI-EAS443:3:3:1367:1421#0/1
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+HWI-EAS443:3:42:1543:1480#0/1
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abbaaabbbababbbbaa`aaaa`a¥abaaaa_a`aa__
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+HWI-EAS443:3:43:1105:950#0/1
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GGATCCCAGAATGTGTTCTCTAATGCAAGGTTCAACACTT
+HWI-EAS443:3:48:1684:2032#0/1
aa^aa`Q````_`a_bRaaa_¥_[]U]a_^¥RZZ¥_U`S¥^
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AATGTGTTCTCTAATGCAAGGTTCAACACTTCCCAGAAGG
+HWI-EAS443:3:4:1107:91#0/1
aabbbaa`a`b`abaab__^b_aSTaH`_aa_N`[a]Za_
@HWI-EAS443:3:50:489:1678#0/1
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+HWI-EAS443:3:50:489:1678#0/1
ab`aaaaaa_bab`aaa`aaa````_aaZ````aU`^`____
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+HWI-EAS443:3:51:1123:38#0/1
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@HWI-EAS443:3:54:989:918#0/1
GAATGTGTTCTCTAATGCAAGGTTCAACACTTCCCAGAAG
+HWI-EAS443:3:54:989:918#0/1
a`_ba]]aa]a`aa_a_]a¥`]¥__`_¥a`^`^^W^]]^^]
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+HWI-EAS443:3:59:24:104#0/1
aaa`[_a____a_`_`T`_`[R`__XNZ^W¥V¥_YYW¥¥T
@HWI-EAS443:3:61:1177:893#0/1
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+HWI-EAS443:3:61:1177:893#0/1
aaa`]_a`^aa_a¥`_aaba_aa`aU`aY`_a¥¥^`_^WT
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+HWI-EAS443:3:63:133:278#0/1
]_QVV`X_Za_Z`aUWZYU^[WZ`Y^^_[UV¥aa¥GH^TG
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+HWI-EAS443:3:64:732:1880#0/1
aa_a`a]`a`^a_a^`aa]ZW^`a__a]_]_____V^S
@HWI-EAS443:3:67:1317:1300#0/1
AGAATGTGTTCTCTAATGCAAGGTTCAACACTTCCCAGAA
+HWI-EAS443:3:67:1317:1300#0/1
ab_aabab_a^a`aa^a`aa¥a`¥aaaa_a¥__¥`¥```¥
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+HWI-EAS443:3:68:1341:1240#0/1
¥_b`abb````_bba`bbabbbb`babUb_FZabbbbaa_
@HWI-EAS443:3:68:434:1545#0/1
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+HWI-EAS443:3:68:434:1545#0/1
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@HWI-EAS443:3:69:1030:655#0/1
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+HWI-EAS443:3:69:1030:655#0/1
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CCAGAATGTGTTCTCTAATGCAAGGTTCAACACTTCCCAG
+HWI-EAS443:3:69:1286:74#0/1
S__`M^[`ba`K¥b¥WR¥[b]ba^babaabTbbb]_S_bb
@HWI-EAS443:3:69:725:995#0/1
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+HWI-EAS443:3:69:725:995#0/1
]`R¥Z``¥aaa_aa[]]a¥H[X_baRXa`]Z_`a`YXKZR
@HWI-EAS443:3:6:1475:379#0/1
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+HWI-EAS443:3:6:1475:379#0/1
aa^_aa_aaa_^_a^a`aa__Y]^^^]_`_^^`]^]_Y^
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+HWI-EAS443:3:70:1034:1930#0/1
`b]¥_aP`Vaa^a`aXTU_`a__[¥aaaaabXP[]]¥`^Y
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+HWI-EAS443:3:70:1746:992#0/1
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+HWI-EAS443:3:72:1428:1886#0/1
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+HWI-EAS443:3:72:1617:1356#0/1
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+HWI-EAS443:3:78:1649:720#0/1
a`^Ua_Z_a^_^]Z¥_^NU]`^_`T^]b`aba_UWX[Q^^
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+HWI-EAS443:3:79:1637:1419#0/1
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@HWI-EAS443:3:81:105:784#0/1
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+HWI-EAS443:3:81:105:784#0/1
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+HWI-EAS443:3:81:1207:532#0/1
a^abb]bbba``bbbabbaabaaaa`_baabab_ba_a_a
@HWI-EAS443:3:81:879:254#0/1
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+HWI-EAS443:3:81:879:254#0/1
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+HWI-EAS443:3:84:132:1549#0/1
aa`_Y]``aaaa`]^`QZ^U__Z``__a__V¥__¥
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AGAATGTGTTCTCTAATGCAAGTTCAACACTTCCCAGAA
+HWI-EAS443:3:86:1366:1474#0/1
abbbbaabab`b_bbbbb[babaTaaaaabaaa`_aaaa`
@HWI-EAS443:3:87:1656:1657#0/1
ATCCCAGAATGTGTTCTCTAATGCAAGTTCAACACTTCC
+HWI-EAS443:3:87:1656:1657#0/1
a^VYVaa_bbb`_V_Pa_aa`_a__a¥G`^`_`a`_^YV
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+HWI-EAS443:3:88:1076:700#0/1
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+HWI-EAS443:3:96:1147:1406#0/1
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@HWI-EAS443:3:9:857:805#0/1
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+HWI-EAS443:3:9:857:805#0/1
ab]a`_a^E^^`a`a``aa`_aa_X_Y^a_a_]__[T`_
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+HWI-EAS443:3:100:236:73#0/1
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aa_¥bbbbaa]`[`baP^abb^baaa`aabaabba`aaaa
@HWI-EAS443:3:14:974:2034#0/1
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aV]bbXL¥aaaa_]¥VH]]a[¥a_]`_b^```]`YXTBBBB

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`^a`b^aaa^aaa_00Taa_U_a_[XU^`Raa]`_Wa]a
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+HWI-EAS443:3:65:427:1040#0/1
aaaaa`aaa`^_a__a^aaaa`a_a_]__`^`[^____^`
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+HWI-EAS443:3:86:796:1456#0/1
aa`¥aaaa`ab]¥]``Sa_aa^aYS^`a``__`¥`_^`]
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+HWI-EAS443:3:87:1361:1318#0/1
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+HWI-EAS443:3:58:1217:1678#0/1
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+HWI-EAS443:3:43:1030:598#0/1
X``_^_b`a`aa]_```bba`aa`^^aaaaaaaaaa]aaa
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+HWI-EAS443:3:47:502:446#0/1
a`a`b``_^`aaaa^a_`a_a^b^____]]YUX^[[^`^
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@HWI-EAS443:3:9:338:618#0/1
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+HWI-EAS443:3:9:338:618#0/1
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+HWI-EAS443:3:23:372:1468#0/1
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+HWI-EAS443:3:3:1375:1320#0/1
a`K_aJOM_]VXL]aab]OLGT[aJT_WHUabX¥_S_W_V
@HWI-EAS443:3:18:1375:1804#0/1
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+HWI-EAS443:3:18:1375:1804#0/1
aZa^T`aa``a_aa_aa`a_aa`_`_Y`_^``a^a]^]
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+HWI-EAS443:3:28:1616:417#0/1
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+HWI-EAS443:3:28:528:1227#0/1
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+HWI-EAS443:3:39:334:365#0/1
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+HWI-EAS443:3:43:906:152#0/1
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aa]ba¥aba_a`Ua]aaQ__`[^____`a_^¥`]a``aY_^
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+HWI-EAS443:3:13:1453:1672#0/1
`baaaaa`a_a`aaa`aa`aaaa]aa__[¥`__Xa]]_
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+HWI-EAS443:3:22:280:1680#0/1
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ababab`a_aab_b_a^aa^_`aa`b]`aaa`^^`_]`¥
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+HWI-EAS443:3:33:990:703#0/1
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+HWI-EAS443:3:34:138:125#0/1
`_aaaaaaaa[a_V`a`a`aa__`a[^^_NQ^_^][YY]X
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+HWI-EAS443:3:38:1162:643#0/1
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+HWI-EAS443:3:39:1578:1266#0/1
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_bbbaabaabaR`a`^Sa^a_Ua^a`^`^0_^]`_¥aW
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+HWI-EAS443:3:45:74:1127#0/1
a¥^^abaaaba`¥`¥]_X[R^_]^[_]¥_a``]`a¥a]¥Z
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_]aaabbbbaaUaa`aa^ZV]_aaa]_``^``_``_`¥
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+HWI-EAS443:3:49:1538:265#0/1
TY¥XX^X[RSaV]a`Xbaaa`_a^^`X]]`a`a¥¥_``
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aba`bbbbbaba_babbaaaa`aa_aa`_a_a_aaaa_a`
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+HWI-EAS443:3:58:685:1524#0/1
_U``_a¥_a`Xaa_aa`a`aaa`_a``Y^`_a`¥_]_
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+HWI-EAS443:3:69:1319:159#0/1
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+HWI-EAS443:3:75:1164:1024#0/1
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+HWI-EAS443:3:84:1024:1685#0/1
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a^`a_aa`]__a^^Z__^Z_^a^^]_^]]^`Y_V_]`
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][`[WU_X`]VMX]]_a¥[`aa]_[a`YZa¥][¥]NZYY^
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+HWI-EAS443:3:6:312:748#0/1
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+HWI-EAS443:3:100:1778:920#0/1
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+HWI-EAS443:3:42:1730:1484#0/1
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+HWI-EAS443:3:49:1607:550#0/1
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a^a]][]YKL[^[]`^^`^`]^¥\_[]`^^¥¥¥XXT]XX] []Y  
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]a\_\_\_\_a`aa``aa^a]\_bV[^V^[]]Y]`]\_Y]a`aa`¥¥  
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]PYa¥`aaa\_V^`[X¥^TS[^[YY]X[^[ZLYV]\_^[WYW  
@HWI-EAS443:3:44:1626:477#0/1  
ACCATTTGAATGGATGTCAATCCGACTCTACTTTTCCTAA  
+HWI-EAS443:3:44:1626:477#0/1  
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@HWI-EAS443:3:44:1725:1171#0/1
AAACCATTTGAATGGATGTCAATCCGACTCTACTTTTCCT

+HWI-EAS443:3:44:1725:1171#0/1
aaa`aabab^aaaa_aaaaa`WZZ`[_]`_a^Y_
@HWI-EAS443:3:44:479:869#0/1
AAACCATTTGAATGGATGTCAATCCGACTCTACTTTTCCT
+HWI-EAS443:3:44:479:869#0/1
`^`ab]¥`baa^`a_`bUaa_WT[a`_a__aPa[U`W[Y
@HWI-EAS443:3:47:1277:1610#0/1
AAACCATTTGAATGGATGTCAATCCGACTCTACTTTTCCT
+HWI-EAS443:3:47:1277:1610#0/1
abbaabbabbaaaaaa^`_a_`^`^^`____]__`a^¥a
@HWI-EAS443:3:50:835:250#0/1
AACCATTTGAATGGATGTCAATCCGACTCTACTTTTCCTA
+HWI-EAS443:3:50:835:250#0/1
`ba`ababbabab^aba`^aa____`^]aXaa_aa`aY]ab
@HWI-EAS443:3:51:271:73#0/1
CAAACCATTTGAATGGATGTCAATCCGACTCTACTTTTCC
+HWI-EAS443:3:51:271:73#0/1
abbb`abbbbaabbbab`_aaa`_a`_b^a_]`aaa__
@HWI-EAS443:3:51:753:1527#0/1
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+HWI-EAS443:3:51:753:1527#0/1
aabbbbbbbbbbb`bbab_]abababa_abaaa`bab
@HWI-EAS443:3:52:1549:2016#0/1
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+HWI-EAS443:3:52:1549:2016#0/1
]VWXXM__X[a_]_]`a[SY]aX^]aU_WX_SV^[QWK
@HWI-EAS443:3:53:1643:29#0/1
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+HWI-EAS443:3:53:1643:29#0/1
a¥]¥aZaa`[bb_R_aba`R`]a`aa_PYaUH`bX_T_WS
@HWI-EAS443:3:54:1371:1003#0/1
ACCATTTGAATGGATGTCAATCCGACTCTACTTTTCCTAA
+HWI-EAS443:3:54:1371:1003#0/1
a_b`b`bb^aba][aaY[a^``TN[`UaTZ`_a`¥X^a_
@HWI-EAS443:3:57:320:329#0/1
AACCATTTGAATGGATGTCAATCCGACTCTACTTTTCCTA
+HWI-EAS443:3:57:320:329#0/1
a`aa`baabaaaaaaa[^`_a`_aW^a```_a`aaZ^aa
@HWI-EAS443:3:58:1622:760#0/1
GGCTGGACCATGGGCTGGCATTACCACAGCATTGTTTACA
+HWI-EAS443:3:58:1622:760#0/1
aa_a_a`a`_a^^`__```_`aa^`aa`a__aa_^a`^S_
@HWI-EAS443:3:58:277:625#0/1
GCTGGACCATGGGCTGGCATTACCACAGCATTGTTTACAG
+HWI-EAS443:3:58:277:625#0/1
aa]aQ_`aa`a`]a]a`____`aa`^`_a``[_`_]W[aa
@HWI-EAS443:3:58:660:965#0/1
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+HWI-EAS443:3:58:660:965#0/1
a`a`a`baWaaa^`_aaa]^aa`_]__a_aa_a_^]__^`

@HWI-EAS443:3:59:1534:1371#0/1
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+HWI-EAS443:3:59:1534:1371#0/1
a_aKb`aba[a`abbV^ab``bbb`¥babbYK[_WXU^`]
@HWI-EAS443:3:59:298:94#0/1
AAACCATTTGAATGGATGTCAATCCGACTCTACTTTTCCT
+HWI-EAS443:3:59:298:94#0/1
a`a_aaaaaa^a`aa`a^Y^Y_]_^XX^__ZV]_X¥^]^
@HWI-EAS443:3:59:583:832#0/1
ACCATTTGAATGGATGTCAATCCGACTCTACTTTTCCTAA
+HWI-EAS443:3:59:583:832#0/1
a`abaaaaaa]aba_a_a```a`a¥`aa¥^```ZS____
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GAGTTCTTCAATGGTGGAACAGATCTTCATGATCTCGGAG
+HWI-EAS443:3:59:915:370#0/1
T_¥I^X`¥¥`_ba`Sab]ba`bS]WV]b¥]¥I`URFF]UX
@HWI-EAS443:3:5:1070:990#0/1
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+HWI-EAS443:3:5:1070:990#0/1
^T[¥__WX__X[W¥_SVTPZ_X^XVXa]LS^_P_[VX]VB
@HWI-EAS443:3:5:1369:282#0/1
ACCATTTGAATGGATGTCAATCCGACTCTACTTTTCCTAA
+HWI-EAS443:3:5:1369:282#0/1
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@HWI-EAS443:3:60:1344:1356#0/1
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+HWI-EAS443:3:60:1344:1356#0/1
abbbba`aa`a`aX_aaaa^a_aaaaa_aZa_]¥MU____
@HWI-EAS443:3:65:104:947#0/1
ATTCATTATTTTTGCCGTCTGAGTTCTTCAATGGTGGAAC
+HWI-EAS443:3:65:104:947#0/1
a`ab^aaaaaaaaa`a`aa]aa]aaaY`_a_^Vsa`_`^
@HWI-EAS443:3:66:1355:936#0/1
GGCTGGACCATGGGCTGGCATTACCACAGCATTGTTTACA
+HWI-EAS443:3:66:1355:936#0/1
ab]b]a]J¥a[U`YL[aa__aY]^aW^aaa`a`XYaa]_a
@HWI-EAS443:3:66:576:1376#0/1
GGCTGGACCATGGGCTGGCATTACCACAGCATTGTTTACA
+HWI-EAS443:3:66:576:1376#0/1
a`ba¥]aba¥`_VVa[aabaaabbaaaa```aaa_aaa`^
@HWI-EAS443:3:6:717:277#0/1
AACCATTTGAATGGATGTCAATCCGACTCTACTTTTCCTA
+HWI-EAS443:3:6:717:277#0/1
`bI]bbbbbbbb`aabaXb]a]_a_Sb^_¥IHa]a_Qaa
@HWI-EAS443:3:70:1046:1032#0/1
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+HWI-EAS443:3:70:1046:1032#0/1
a^a`aaaaaaaaa`a`a¥_[_^]^¥_^^¥YZ]^^]YY]
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+HWI-EAS443:3:72:339:458#0/1
a]abaabbbbaabaaa`_aaaaaa`__a`__X`aa`^a_a
@HWI-EAS443:3:73:541:106#0/1
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+HWI-EAS443:3:73:541:106#0/1
Yaba[aZ]`aaaaaa]_abbabaaaXbb^bbb`bbab^ab
@HWI-EAS443:3:74:1579:542#0/1
ACCATTTGAATGGATGTCAATCCGACTCTACTTTTCCTAA
+HWI-EAS443:3:74:1579:542#0/1
a__abbaa^abba`b`a`aaa`aZ_b``¥Y_aa]]]aaa
@HWI-EAS443:3:74:937:663#0/1
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+HWI-EAS443:3:74:937:663#0/1
aaaaaabbbbaaab`aa]abaaa__]aa^a_Vaa_a^`a
@HWI-EAS443:3:75:1112:1208#0/1
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+HWI-EAS443:3:75:1112:1208#0/1
Obb_bababaV`¥baa_aabaZ]X¥^baaaYaaaa`_a_b
@HWI-EAS443:3:76:1590:1088#0/1
TAAATTCATTATTTTTGCCGTCTGAGTTCTTCAATGGTGG
+HWI-EAS443:3:76:1590:1088#0/1
a`^`aa__aa]aaa`_a^[a__`Z__`[a^V__^`¥[¥[
@HWI-EAS443:3:76:497:371#0/1
TATCTGTAGTCTTTGATGAACAATTGAAGAGCCATCTGGG
+HWI-EAS443:3:76:497:371#0/1
aaaaabaaa_`baaaba`a`_aaaaaa`_a^_a^^^`^a
@HWI-EAS443:3:77:404:1221#0/1
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+HWI-EAS443:3:77:404:1221#0/1
aaaa`aaaaaaa__aaa`]a`_a[`a`a``_aa_[`_`a
@HWI-EAS443:3:78:1619:155#0/1
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+HWI-EAS443:3:78:1619:155#0/1
aaaaW`a`_a_aaa^^U[Y^_a_a]¥Y__[_^_a][^TW]
@HWI-EAS443:3:79:1282:1490#0/1
AACCATTTGAATGGATGTCAATCCGACTCTACTTTTCCTA
+HWI-EAS443:3:79:1282:1490#0/1
aYT_P_a^[Q¥`a`^TaTX[U]^UORa`aUT[¥T[¥Z_a
@HWI-EAS443:3:79:1382:1204#0/1
CTGTAACAATGCTGTGGTAATGCCAGCCCATGGTCCAGC
+HWI-EAS443:3:79:1382:1204#0/1
abbZVaZT[UTZVZ^STV`_W]^aXaXVYML]`ZPXL¥aa
@HWI-EAS443:3:80:1745:1947#0/1
AAACCATTTGAATGGATGTCAATCCGACTCTACTTTTCCT
+HWI-EAS443:3:80:1745:1947#0/1
aaa__a`a`a`_`__aa]`_^]^^]T][_TT]]]]]_¥
@HWI-EAS443:3:83:802:161#0/1
AAACCATTTGAATGGATGTCAATCCGACTCTACTTTTCCT
+HWI-EAS443:3:83:802:161#0/1
aaa`aaaaaa_``aaaab]^`__]__YV_]__Y`_`¥]^

@HWI-EAS443:3:83:938:505#0/1
ACCATTTGAATGGATGTCAATCCGACTCTACTTTTCCTAA
+HWI-EAS443:3:83:938:505#0/1
_`b^abZV]^`a]^`ab]^a^a^`^]VP]^a`aa`aaaa^`aaa
@HWI-EAS443:3:84:1400:128#0/1
AATTCATTATTTTTGCCGTCTGAGTTCTTCAATGGTGGAA
+HWI-EAS443:3:84:1400:128#0/1
U[ababba¥`aaabaV`b[abb0ba_`b_]¥VYPa__a[L
@HWI-EAS443:3:85:292:1428#0/1
AAACCATTTGAATGGATGTCAATCCGACTCTACTTTTCCT
+HWI-EAS443:3:85:292:1428#0/1
aab`__`aaaaaa¥^a_aZa^Y`aaY¥a__`__a``_YZ^
@HWI-EAS443:3:86:1004:730#0/1
AAACCATTTGAATGGATGTCAATCCGACTCTACTTTTCCT
+HWI-EAS443:3:86:1004:730#0/1
abbaaabababa_a_aabb`_`a`_]`^a`b__`aba¥X`
@HWI-EAS443:3:86:1494:771#0/1
ATTATTTTTGCCGTCTGAGTTCTTCAATGGTGGAACAGAT
+HWI-EAS443:3:86:1494:771#0/1
a```bbb^¥`_¥`babbaba_¥`b]aaa`bZaa`Z`aa`_
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GGCTGGACCATGGGCTGGCATTACCACAGCATTGTTTACA
+HWI-EAS443:3:87:1024:1689#0/1
abaaaabbbbaaaaa_babaabba_abZb`abbbaaa`aab
@HWI-EAS443:3:87:296:340#0/1
ATTCATTATTTTTGCCGTCTGAGTTCTTCAATGGTGGAAC
+HWI-EAS443:3:87:296:340#0/1
a_a_X¥ab`aa]^`a`a_a`aa`U```aaaY`ZRRaa____
@HWI-EAS443:3:88:1593:695#0/1
AACCATTTGAATGGATGTCAATCCGACTCTACTTTTCCTA
+HWI-EAS443:3:88:1593:695#0/1
aa`b_babb_ba¥baabZaa_a`Saa¥Y`a_Sab`YY¥^_
@HWI-EAS443:3:90:541:1805#0/1
AACCATTTGAATGGATGTCAATCCGACTCTACTTTTCCTA
+HWI-EAS443:3:90:541:1805#0/1
a¥`aaaa`aa^a`_^_Z__aaaZ_X^S^^]W`XWYGNN`
@HWI-EAS443:3:92:1777:1881#0/1
TGTAACAATGCTGTGGTAATGCCAGCCCATGGTCCAGCC
+HWI-EAS443:3:92:1777:1881#0/1
abZ^_QZ^aabb`]^`_¥`aa`^]^`__X_]V[Z^U`YV¥UY
@HWI-EAS443:3:95:1069:698#0/1
AAATTCATTATTTTTGCCGTCTGAGTTCTTCAATGGTGGAA
+HWI-EAS443:3:95:1069:698#0/1
aa¥baY`a0`baaa`````]Z^aXaaaaaa`Y`abb_a_[
@HWI-EAS443:3:9:763:1883#0/1
AACCATTTGAATGGATGTCAATCCGACTCTACTTTTCCTA
+HWI-EAS443:3:9:763:1883#0/1
aa[Zaaa`aa`a`^a__ZS__]¥^XZV_]_^Z^]X^ZZ^`
@HWI-EAS443:3:8:1459:1085#0/1
ATTCATCTTGATCTTGGAGGTTCCATTGGTTCTCAAATA

+HWI-EAS443:3:8:1459:1085#0/1
a`_P]_aX]`a`aaaaXLYa^SMDL¥PXL¥0_GWG¥FRGN
@HWI-EAS443:3:11:1305:82#0/1
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+HWI-EAS443:3:11:1305:82#0/1
aaa`¥b_`aZa_aab[P_`V¥0^ZZ^_[XXQTPWWVZN
@HWI-EAS443:3:17:1488:1031#0/1
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+HWI-EAS443:3:17:1488:1031#0/1
`baa`aaZaab^^¥babaaaVT[`^^T[YNZ`]UX]W^`
@HWI-EAS443:3:53:985:1980#0/1
GAAAGAATATGGGGAAGATCCGAAAATCGAAACTAACAAA
+HWI-EAS443:3:53:985:1980#0/1
aaa`_abbbabbabb`_aKbab_ab`]bb^Xaa]`_a_
@HWI-EAS443:3:5:621:1077#0/1
ATTTTCATCTTGATCTTGGAGGTTCCATTGGTTCTCACATA
+HWI-EAS443:3:5:621:1077#0/1
a¥baaa`_¥Ya`aa`_a`Wa^^`_W[_SX^W]^Y_BB
@HWI-EAS443:3:62:668:1309#0/1
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+HWI-EAS443:3:62:668:1309#0/1
aaaa`]aa`]a]aaa`aa^_^U]NN¥NYUZ`_¥_UYSR
@HWI-EAS443:3:69:1477:679#0/1
CGAAGGTTCCAGGTTCCAGATTGTCCCTAAGTGCCTGAAC
+HWI-EAS443:3:69:1477:679#0/1
ab`_a_R__`a¥`¥_a_H^^`_aaa`aaa¥_YY_]_]_
@HWI-EAS443:3:77:1765:82#0/1
ATTTTCATCTTGATCTTGGAGGTTCCATTGGTTCTCACATA
+HWI-EAS443:3:77:1765:82#0/1
abbbabbabbbababbbabb¥`W]`a`ZZQ^S[S[^T
@HWI-EAS443:3:99:143:486#0/1
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+HWI-EAS443:3:99:143:486#0/1
aab`baaaaaaaaa¥RX_____^a__^Z`¥^aZWW_^]^
@HWI-EAS443:3:22:1581:214#0/1
TCTGGGCTCTTCAGCAGATTGAGAGCATGATTGAGGCCGA
+HWI-EAS443:3:22:1581:214#0/1
a[a]a^Z`^a`a]_`a]_a`_X_TX`_`_]_^_UVTT
@HWI-EAS443:3:61:262:1337#0/1
CATGGAAATGAGGCGCTGCCTTCTTCACTCTTTCAGCAG
+HWI-EAS443:3:61:262:1337#0/1
abbbba`_`bbbbbababa`aaaaba`b]PQ^____]¥_YZXN
@HWI-EAS443:3:74:159:1899#0/1
GAAGGCAGCGCCTCATTTCCATGCCCATTTTCATCCTGAT
+HWI-EAS443:3:74:159:1899#0/1
W_Taabba_]_^_`a`_`a]a`_Z¥T`^`W[_GYN^a
@HWI-EAS443:3:85:1076:204#0/1
AGAAGACTCGGGCTCAATCATGCTCTCAATCTGCTGAAGA
+HWI-EAS443:3:85:1076:204#0/1
V]¥]_¥ZQ_]XPQ¥^Z^__ZY]¥[ZYWW^`^RZWaa`_¥J

@HWI-EAS443:3:67:1179:437#0/1
TTGAGATCAAGATGAAATGGGGCATGGAAATGAGGCGCTG
+HWI-EAS443:3:67:1179:437#0/1
aaa_`a[[aa^`a_Y`aaa^__a`_a_a_aa`¥]a¥`_
@HWI-EAS443:3:11:934:1111#0/1
GCAGATTGAGAGCATGATTGAGGCCGAGTCTTCTGTCAA
+HWI-EAS443:3:11:934:1111#0/1
a`Xa_aaa¥`Xa`_a^a_Z_]a`[U`Y`TS]]UZ_YY¥^R
@HWI-EAS443:3:12:538:528#0/1
GAAGACTCGGCCTCAATCATGCTCTCAATCTGCTGAAGAG
+HWI-EAS443:3:12:538:528#0/1
^¥`_QWZ^^`ZZ`__^TZ_XZ]_a[aa_[__V^X]`__Y
@HWI-EAS443:3:14:895:1534#0/1
AGATCAAGATGAAATGGGGCATGGAAATGAGGCGCTGCCT
+HWI-EAS443:3:14:895:1534#0/1
_P```]a[_a_a]¥¥]XU]X[a__a^_a[^[_]]Q][W
@HWI-EAS443:3:17:968:461#0/1
CTCTTCAGCAGATTGAGAGCATGATTGAGGCCGAGTCTTC
+HWI-EAS443:3:17:968:461#0/1
aa```[Ya`V`^a_a0a^ZZ]_a_]V^a]_T^V¥VX]_0
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CTCTTCAGCAGATTGAGAGCATGATTGAGGCCGAGTCTTC
+HWI-EAS443:3:18:1074:587#0/1
H]SZXW_XQX]_b`b`bUbbVQ[¥abbbb¥¥IUUR_KJZ
@HWI-EAS443:3:21:1415:127#0/1
GATCAAGATGAAATGGGGCATGGAAATGAGGCGCTGCCTT
+HWI-EAS443:3:21:1415:127#0/1
a`aU¥_a¥`__[]a_^_¥`^_^]XY]_X]]X`XX_YYYYX
@HWI-EAS443:3:22:306:1424#0/1
GAAGAAGGCAGCGCCTCATTTCATGCCCATTTTCATCTT
+HWI-EAS443:3:22:306:1424#0/1
`a[I¥`W]baab^_bab^aaaaa```a^a_X``]a`]a^Z
@HWI-EAS443:3:22:445:847#0/1
CCAAGATCAAGATGAAATGGGGCATGGAAATGAGGCGCTG
+HWI-EAS443:3:22:445:847#0/1
a`a``^^^`a^]`¥[[^Q[^]_^^¥V¥[Z^_]ZZ^^¥^
@HWI-EAS443:3:22:621:1326#0/1
AGCAGATTGAGAGCATGATTGAGGCCGAGTCTTCTGTCAA
+HWI-EAS443:3:22:621:1326#0/1
Ya`^^`aa¥^aa___`bWUZWU_aQ^R^Wa___`__Y^`_
@HWI-EAS443:3:24:1208:406#0/1
GAAGACTCGGCCTCAATCATGCTCTCAATCTGCTGAAGAG
+HWI-EAS443:3:24:1208:406#0/1
aa[^bM^_bbV]`XW]`T]Z_Q_`¥W___[__VR`a[```a
@HWI-EAS443:3:25:1614:1825#0/1
AGCAGATTGAGAGCATGATTGAGGCCGAGTCTTCTGTCAA
+HWI-EAS443:3:25:1614:1825#0/1
]Q_`baba`baXa`bba]Wa_W`Wa^_VaaYaZ`UYX_
@HWI-EAS443:3:26:1117:794#0/1
CAAGATCAAGATGAAATGGGGCATGGAAATGAGGCGCTGC

+HWI-EAS443:3:26:1117:794#0/1
ab¥a]^b`bab_¥baaa`aV`aaaa¥`aaaW][_a_`_@
@HWI-EAS443:3:26:1716:1296#0/1
CAGAAGACTCGGCCTCAATCATGCTCTCAATCTGCTGAAG
+HWI-EAS443:3:26:1716:1296#0/1
[bb`b`abba¥ZYU_UQ_aUaaba]GV¥^aa]`N`[_a
@HWI-EAS443:3:26:859:1740#0/1
CAGCAGATTGAGAGCATGATTGAGGCCGAGTCTTCTGTCA
+HWI-EAS443:3:26:859:1740#0/1
abbbb`a`abbaabba`baaZLU`bV^`__`_aaaa]``
@HWI-EAS443:3:2:1402:1840#0/1
GAAGAAGGCAGCGCCTCATTCCATGCCCCATTCATCTT
+HWI-EAS443:3:2:1402:1840#0/1
_a`U_a^aaa[_Y__`J[`aaa^)`_NRH^[Q_aWRMDTB
@HWI-EAS443:3:2:536:494#0/1
AGAAGACTCGGCCTCAATCATGCTCTCAATCTGCTGAAGA
+HWI-EAS443:3:2:536:494#0/1
`aWIVZ``_X`a`ZXW^QRQYUVZ_P^`PN_¥RV_]¥a^
@HWI-EAS443:3:31:192:1642#0/1
GAAGACTCGGCCTCAATCATGCTCTCAATCTGCTGAAGAG
+HWI-EAS443:3:31:192:1642#0/1
_b`Zbbbbabab^a`ab`[Tb_bU]T`a`]ZX¥]¥IH^N
@HWI-EAS443:3:32:1184:1530#0/1
CTCCAAGATCAAGATGAAATGGGGCATGGAAATGAGGCCG
+HWI-EAS443:3:32:1184:1530#0/1
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@HWI-EAS443:3:37:335:1354#0/1
CTCTTCAGCAGATTGAGAGCATGATTGAGGCCGAGTCTTC
+HWI-EAS443:3:37:335:1354#0/1
abbbba`Y`abb`a```aaaa¥aba`_aaYaa^)`]a[_Y
@HWI-EAS443:3:3:1480:1365#0/1
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+HWI-EAS443:3:3:1480:1365#0/1
abaFROX_`Z]YWa[b¥X_a]aaba`WY_]aa`aa_a`^B
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_]`_VQ_^^^_X_aZX]Z[``]`^¥QZ]]Y]ZUTY]^^X
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+HWI-EAS443:3:98:1193:1103#0/1
aa`aX`_aaa_¥_a`a`]Y`¥^`_X_^^^U_]__^Y^`Y

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YY`ZUX]]F[VZa^_N][VXa^`WZWJ^ZMY^^^W]]_S
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aWZ_a``abb`a¥SX_a`W`¥Y`_a^aa]^a_[`^`^]`G
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a``ZQ¥Ta_a`____Z`a``]_W]^Z`_TDR_Z_^^]^
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a_abb_a]TXa_]a`]Ya_VD[ba^`YTY_Ra_]_`]^¥_
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+HWI-EAS443:3:35:47:1429#0/1
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+HWI-EAS443:3:3:187:618#0/1
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abb^a`b`ba`_`X_a`_`a`_¥a^a`]]`]a_¥__]`^
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+HWI-EAS443:3:11:1307:801#0/1
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abb_]X)^`^`aa¥b`a`aa¥a```aaa`_aa_a^Z]a`
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Za`^)^aa`_UXF` `_N¥_a^^`_^`_V¥]]`a`^U[W
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¥aba[(` `V_^a]^LJa_aabaTT^U]^aW___¥UZ_]b_
@HWI-EAS443:3:40:640:998#0/1
TGGATAGCAAATAGTAGCATTGCCACAACACTACTTCAATGC
+HWI-EAS443:3:40:640:998#0/1
abaaabbabaabaa_aaaaaaaaaa[I]a`aaa__ZZ`aa
@HWI-EAS443:3:42:1543:1144#0/1
TGGATAGCAAATAGTAGCATTGCCACAACACTACTTCAATGC
+HWI-EAS443:3:42:1543:1144#0/1
T____^Va`aba_^XRba[MabaTaa[_S_aaa]PNZ^Y_`
@HWI-EAS443:3:42:263:95#0/1
TGGATAGCAAATAGTAGCATTGCCACAACACTACTTCAATGC
+HWI-EAS443:3:42:263:95#0/1
abbaa[abba`a`__aaaaaaaaY[aaa_``^aY__[_``
@HWI-EAS443:3:42:920:887#0/1
TGGATAGCAAATAGTAGCATTGCCACAACACTACTTCAATGC
+HWI-EAS443:3:42:920:887#0/1
ab_TZ[`aa`b`_`W_bbabaaa_[¥aaaaa_aa^^^aa]
@HWI-EAS443:3:45:1288:990#0/1
TGGATAGCAAATAGTAGCATTGCCACAACACTACTTCAATGC
+HWI-EAS443:3:45:1288:990#0/1
aaa`a_a`a__a`_]`a__`a^^^_^__X__^__]__^_
@HWI-EAS443:3:46:374:706#0/1
TGGATAGCAAATAGTAGCATTGCCACAACACTACTTCAATGC

+HWI-EAS443:3:46:374:706#0/1
_`¥0`^a`Y^aa[Z]aaaa_aaaa¥a__a``_a``aa
@HWI-EAS443:3:49:13:656#0/1
TGGATAGCAAATAGTAGCATTGCCACAACACTTCAATGC
+HWI-EAS443:3:49:13:656#0/1
^`^¥WX`_W^_R]Z[_Z¥LTY¥^`YXX_aZY^]^USXXR
@HWI-EAS443:3:49:611:455#0/1
TGGATAGCAAATAGTAGCATTGCCACAACACTTCAATGC
+HWI-EAS443:3:49:611:455#0/1
aa`aa`__ba^aa`PabY^aaa_Q]`aaaab`aa^aT_aa
@HWI-EAS443:3:50:758:1982#0/1
TGGATAGCAAATAGTAGCATTGCCACAACACTTCAATGC
+HWI-EAS443:3:50:758:1982#0/1
[_`]Z^X¥bb^X[RF]XY`XR^a]T]ab^WTa]]W_YT__
@HWI-EAS443:3:51:1349:246#0/1
TGGATAGCAAATAGTAGCATTGCCACAACACTTCAATGC
+HWI-EAS443:3:51:1349:246#0/1
abaaabaabaabaaXab¥]aaa__a`aa_aa_aa`aaa`¥
@HWI-EAS443:3:52:1298:558#0/1
TGGATAGCAAATAGTAGCATTGCCACAACACTTCAATGC
+HWI-EAS443:3:52:1298:558#0/1
[baYa^a_a___a_W^`Ya¥Y^^X_a__a_[___a_^`]
@HWI-EAS443:3:52:1359:1668#0/1
TGGATAGCAAATAGTAGCATTGCCACAACACTTCAATGC
+HWI-EAS443:3:52:1359:1668#0/1
ab]_W`]L][aa_[U`Y`^a^a^QXX^`0^aYaaW`]_XH
@HWI-EAS443:3:52:19:607#0/1
TGGATAGCAAATAGTAGCATTGCCACAACACTTCAATGC
+HWI-EAS443:3:52:19:607#0/1
ab`¥¥aa_aa¥_aYXaaa_a`_Z`¥``]`a__^`a`]]^
@HWI-EAS443:3:52:418:122#0/1
TGGATAGCAAATAGTAGCATTGCCACAACACTTCAATGC
+HWI-EAS443:3:52:418:122#0/1
abb___a_a`_a`_Y`a__`_a`___`_]__Ya___^^_¥
@HWI-EAS443:3:55:698:1399#0/1
TGGATAGCAAATAGTAGCATTGCCACAACACTTCAATGC
+HWI-EAS443:3:55:698:1399#0/1
aaa_bba]baaba`^aa``aaa`aaaa``aaaa^aaaa_
@HWI-EAS443:3:56:1012:1035#0/1
TGGATAGCAAATAGTAGCATTGCCACAACACTTCAATGC
+HWI-EAS443:3:56:1012:1035#0/1
a¥^_PXba^]^a``Z`baa]___^X¥^^aT_a_a`dT¥`P
@HWI-EAS443:3:58:1196:1112#0/1
TGGATAGCAAATAGTAGCATTGCCACAACACTTCAATGC
+HWI-EAS443:3:58:1196:1112#0/1
aaa_a[_`aa^aaa^`a`[_`_]`^`_`V_a]___`_]_a]
@HWI-EAS443:3:59:172:237#0/1
TGGATAGCAAATAGTAGCATTGCCACAACACTTCAATGC
+HWI-EAS443:3:59:172:237#0/1
abba`aZabbaaa`]`aaa`__a__aZ_W^U^__^Z^_Z

@HWI-EAS443:3:59:1773:740#0/1
TGGATAGCAAATAGTAGCATTGCCACAACACTTCAATGC
+HWI-EAS443:3:59:1773:740#0/1
_`^_baa^bbbb`baab`b`^`bbbb_`^`¥F_aa]¥ZOX
@HWI-EAS443:3:59:663:386#0/1
TGGATAGCAAATAGTAGCATTGCCACAACACTTCAATGC
+HWI-EAS443:3:59:663:386#0/1
ab_abababaabab_ba`abbaaaaaS_aaXaaa_^aaX
@HWI-EAS443:3:59:903:1798#0/1
TGGATAGCAAATAGTAGCATTGCCACAACACTTCAATGC
+HWI-EAS443:3:59:903:1798#0/1
abaa[aaaaaaaa`baaaaaababbbbXaaa_^`aM
@HWI-EAS443:3:61:1511:356#0/1
TGGATAGCAAATAGTAGCATTGCCACAACACTTCAATGC
+HWI-EAS443:3:61:1511:356#0/1
abb`aab`babbaa_abaaaaabababa`aaa`__a^`^U
@HWI-EAS443:3:61:1512:1275#0/1
TGGATAGCAAATAGTAGCATTGCCACAACACTTCAATGC
+HWI-EAS443:3:61:1512:1275#0/1
ab_aabbabbbbaa^bba`aab`_abb`aba``[a___U
@HWI-EAS443:3:61:777:1616#0/1
TGGATAGCAAATAGTAGCATTGCCACAACACTTCAATGC
+HWI-EAS443:3:61:777:1616#0/1
ab`ba^abbbba`babbbababXabbaabbaaaa`_U
@HWI-EAS443:3:63:870:149#0/1
TGGATAGCAAATAGTAGCATTGCCACAACACTTCAATGC
+HWI-EAS443:3:63:870:149#0/1
a`¥[X^¥aaa`_P```_`^`_Z[^V^]^^][^YVPS¥X
@HWI-EAS443:3:64:1376:1804#0/1
TGGATAGCAAATAGTAGCATTGCCACAACACTTCAATGC
+HWI-EAS443:3:64:1376:1804#0/1
SY_`^^_R`b^aaa[a¥]__YD[[]]YR[[_```__a````]
@HWI-EAS443:3:64:1493:1508#0/1
TGGATAGCAAATAGTAGCATTGCCACAACACTTCAATGC
+HWI-EAS443:3:64:1493:1508#0/1
aa`aaaa`ba`baa]aaaa`a`aaaaa_aa_b`_a`^a^
@HWI-EAS443:3:64:1678:193#0/1
TGGATAGCAAATAGTAGCATTGCCACAACACTTCAATGC
+HWI-EAS443:3:64:1678:193#0/1
aa]`aababaaba`Pab]]`^]Y^[_]V`^a_`Y]aY
@HWI-EAS443:3:65:873:113#0/1
TGGATAGCAAATAGTAGCATTGCCACAACACTTCAATGC
+HWI-EAS443:3:65:873:113#0/1
aba`_`aaTVRZYF^[^X]UYS[[]][^^R]]_`^]VLYW_X
@HWI-EAS443:3:66:1336:752#0/1
TGGATAGCAAATAGTAGCATTGCCACAACACTTCAATGC
+HWI-EAS443:3:66:1336:752#0/1
[```¥a]Zabaaa]Zaaaa_`¥aaa`a_a`a_`Z_^_]
@HWI-EAS443:3:68:1099:514#0/1
TGGATAGCAAATAGTAGCATTGCCACAACACTTCAATGC

+HWI-EAS443:3:68:1099:514#0/1
Y¥`UZab`ba^aa^`ZM]XM_ab]^aaabaaa_`Y_`
@HWI-EAS443:3:68:967:946#0/1
TGGATAGCAAATAGTAGCATTGCCACA ACTACTTCAATGC
+HWI-EAS443:3:68:967:946#0/1
a_XZa_aabXaaaY¥baa`a`a`aa_`a`a_]a^^a¥
@HWI-EAS443:3:6:1467:217#0/1
TGGATAGCAAATAGTAGCATTGCCACA ACTACTTCAATGC
+HWI-EAS443:3:6:1467:217#0/1
ab_aaa_W]a`aaaXaaZZ`_`SS]W^_U__Z^]S_^]^X
@HWI-EAS443:3:70:563:2007#0/1
TGGATAGCAAATAGTAGCATTGCCACA ACTACTTCAATGC
+HWI-EAS443:3:70:563:2007#0/1
Yb_]`ab`aa_b¥ZZ_aYaabaU`_S]a_ba`b`Y`b
@HWI-EAS443:3:74:994:957#0/1
TGGATAGCAAATAGTAGCATTGCCACA ACTACTTCAATGC
+HWI-EAS443:3:74:994:957#0/1
`b`aaabbb¥]aa]Y`aa¥a__W__a`W__a_]`X`a`
@HWI-EAS443:3:75:1553:747#0/1
TGGATAGCAAATAGTAGCATTGCCACA ACTACTTCAATGC
+HWI-EAS443:3:75:1553:747#0/1
]bb`^^`]bbaZaSxabaaaabYV_^a^_a`]UYW][]^Z
@HWI-EAS443:3:77:1520:993#0/1
TGGATAGCAAATAGTAGCATTGCCACA ACTACTTCAATGC
+HWI-EAS443:3:77:1520:993#0/1
^aba`a]__aa`b[`b¥¥¥`aZ^`__`bT_a_ab¥aba
@HWI-EAS443:3:77:246:307#0/1
TGGATAGCAAATAGTAGCATTGCCACA ACTACTTCAATGC
+HWI-EAS443:3:77:246:307#0/1
¥aaa¥R_b]ba`^`bb_RZa`b^Z_]Y^a_¥]aaaaaa_
@HWI-EAS443:3:7:472:1157#0/1
TGGATAGCAAATAGTAGCATTGCCACA ACTACTTCAATGC
+HWI-EAS443:3:7:472:1157#0/1
abba`]aaba`aba__a_aaaaa_a`a`aa`^`¥__¥¥[
@HWI-EAS443:3:7:568:595#0/1
TGGATAGCAAATAGTAGCATTGCCACA ACTACTTCAATGC
+HWI-EAS443:3:7:568:595#0/1
^bbaaab`aaa_[Sa¥VW`aa_W]¥]a¥_a`__a_]`_`
@HWI-EAS443:3:80:223:106#0/1
TGGATAGCAAATAGTAGCATTGCCACA ACTACTTCAATGC
+HWI-EAS443:3:80:223:106#0/1
a`a_aa_b¥`aa]``]Xaa__^_]`[]`Z^__^_^X`Z
@HWI-EAS443:3:82:259:172#0/1
TGGATAGCAAATAGTAGCATTGCCACA ACTACTTCAATGC
+HWI-EAS443:3:82:259:172#0/1
abbaaabaa_aab_aa`aa`a`a`aa`_a`a`a`_`a`
@HWI-EAS443:3:83:955:924#0/1
TGGATAGCAAATAGTAGCATTGCCACA ACTACTTCAATGC
+HWI-EAS443:3:83:955:924#0/1
[`a`aababaaabaa`b_aa`aa^a¥aaaababbab^aa`

@HWI-EAS443:3:84:392:1654#0/1
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+HWI-EAS443:3:84:392:1654#0/1
aaaaa]`abaaaaa¥a`aaaa`aaaaa`ba`aa____
@HWI-EAS443:3:84:456:473#0/1
TGGATAGCAAATAGTAGCATTGCCACAACACTACTTCAATGC
+HWI-EAS443:3:84:456:473#0/1
a__N_aa[``YaaZN¥]Z^aa[a^X`]_a``a`aa`_]a_
@HWI-EAS443:3:86:1477:485#0/1
TGGATAGCAAATAGTAGCATTGCCACAACACTACTTCAATGC
+HWI-EAS443:3:86:1477:485#0/1
aabaaaaabbbabb]bb_abaa`^aZaa^ba_ba¥a``aH
@HWI-EAS443:3:87:596:563#0/1
TGGATAGCAAATAGTAGCATTGCCACAACACTACTTCAATGC
+HWI-EAS443:3:87:596:563#0/1
¥baaaT^b¥UF[U_V¥_]_]¥X][¥T][b]a``a_aa_
@HWI-EAS443:3:89:1411:1626#0/1
TGGATAGCAAATAGTAGCATTGCCACAACACTACTTCAATGC
+HWI-EAS443:3:89:1411:1626#0/1
a`a`a^a`_aaa`_0_a[aaaaQ_a_aa]a_^`aWa__`[
@HWI-EAS443:3:89:338:38#0/1
TGGATAGCAAATAGTAGCATTGCCACAACACTACTTCAATGC
+HWI-EAS443:3:89:338:38#0/1
]b`````Za`aba_Z`baaa]bb[a¥a`^a¥UaaYa`a`R
@HWI-EAS443:3:8:1148:1472#0/1
TGGATAGCAAATAGTAGCATTGCCACAACACTACTTCAATGC
+HWI-EAS443:3:8:1148:1472#0/1
`a`a]aSa_^a__Raaa¥a`aWX_[^[]_^W^`HaX`a_
@HWI-EAS443:3:8:1414:895#0/1
TGGATAGCAAATAGTAGCATTGCCACAACACTACTTCAATGC
+HWI-EAS443:3:8:1414:895#0/1
``bX_U[¥]aab``NZaSW]a]_[a¥_a``Q`a[_]_aQ
@HWI-EAS443:3:91:319:240#0/1
TGGATAGCAAATAGTAGCATTGCCACAACACTACTTCAATGC
+HWI-EAS443:3:91:319:240#0/1
ababaaaabb`bab^abaaaaaa^`a`_aa__`aa__a_
@HWI-EAS443:3:92:268:88#0/1
TGGATAGCAAATAGTAGCATTGCCACAACACTACTTCAATGC
+HWI-EAS443:3:92:268:88#0/1
aba[_`a````_¥¥^a]_``^]_^]^^^]^^X^^X^Z`X
@HWI-EAS443:3:92:380:1615#0/1
TGGATAGCAAATAGTAGCATTGCCACAACACTACTTCAATGC
+HWI-EAS443:3:92:380:1615#0/1
abaaaa]^b`_aaa_b`aaaaaaaaaaaaaaaaabaaaa
@HWI-EAS443:3:92:922:1266#0/1
TGGATAGCAAATAGTAGCATTGCCACAACACTACTTCAATGC
+HWI-EAS443:3:92:922:1266#0/1
aa`]_aa]b``a_Y`a____`^[]``^`]a_``^_] [
@HWI-EAS443:3:93:401:505#0/1
TGGATAGCAAATAGTAGCATTGCCACAACACTACTTCAATGC

+HWI-EAS443:3:93:401:505#0/1
aa`U`Z^aba_]b_aab¥]_ba`[aa^V]Waaaa_aaaaZ
@HWI-EAS443:3:93:855:1050#0/1
TGGATAGCAAATAGTAGCATTGCCACAACACTACTTCAATGC
+HWI-EAS443:3:93:855:1050#0/1
aaaaa`a]aaaaa`^aa_aaa`aa`^a___a___`_a___^
@HWI-EAS443:3:98:408:1572#0/1
TGGATAGCAAATAGTAGCATTGCCACAACACTACTTCAATGC
+HWI-EAS443:3:98:408:1572#0/1
aaa^aaa`baaaaa¥aa`aa`a`aaa`_a___`_`^`^`_`
@HWI-EAS443:3:7:1173:169#0/1
GTATGGATAGCAAATNGTAGCATTGCCACAACACTACTTCAA
+HWI-EAS443:3:7:1173:169#0/1
`_aabb`b`_baaaaXD[``a]_aa_^a¥`^`_U`U`U`
@HWI-EAS443:3:100:1314:540#0/1
AGCAAATAGTAGCATTGCCACAACACTACTTCAATGCATGTG
+HWI-EAS443:3:100:1314:540#0/1
ab``a_a`b_aZ___X`_`aaaa][a_aa_a]aa_^_aWa
@HWI-EAS443:3:100:492:196#0/1
ATAGCAAATAGTAGCATTGCCACAACACTACTTCAATGCATG
+HWI-EAS443:3:100:492:196#0/1
`a¥V¥`b`Sa__Yba]¥V`YY]aab_aaaaaUaaWYX¥`b
@HWI-EAS443:3:100:771:1081#0/1
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+HWI-EAS443:3:100:771:1081#0/1
`_a`ab`Z¥Zaa^`ba¥_V_bbb`aa]^a_b`^`¥^bb[b
@HWI-EAS443:3:10:1379:1464#0/1
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+HWI-EAS443:3:10:1379:1464#0/1
aabaaaaabaZba^_aab_a``aa_aa````_``^`U`^`_`
@HWI-EAS443:3:10:1474:433#0/1
AGCAAATAGTAGCATTGCCACAACACTACTTCAATGCATGTG
+HWI-EAS443:3:10:1474:433#0/1
aaabaaaab^bb_aaaa__a_aa`aa_aa_a_`a¥^aa^a
@HWI-EAS443:3:10:285:1465#0/1
AGCAAATAGTAGCATTGCCACAACACTACTTCAATGCATGTG
+HWI-EAS443:3:10:285:1465#0/1
aTa`[_`¥`b_Z`^^_[bbabb[___a]a```^`aaa`X¥
@HWI-EAS443:3:10:663:187#0/1
ATAGCAAATAGTAGCATTGCCACAACACTACTTCAATGCATG
+HWI-EAS443:3:10:663:187#0/1
_Z_b`baaaaZN_baaaa]``a_aa`Ya`_`a`^^`^^^a
@HWI-EAS443:3:10:706:154#0/1
AGCAAATAGTAGCATTGCCACAACACTACTTCAATGCATGTG
+HWI-EAS443:3:10:706:154#0/1
abaaa]baa_ba_a_`a]a]a`a`W_`^`^`_a]`__Z`
@HWI-EAS443:3:11:908:572#0/1
AGCAAATAGTAGCATTGCCACAACACTACTTCAATGCATGTG
+HWI-EAS443:3:11:908:572#0/1
abab^abbb_bbaaaaabbaaba_aaaaaYa_aa``aa^a

@HWI-EAS443:3:12:1407:1493#0/1
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+HWI-EAS443:3:12:1407:1493#0/1
a`aaaZb`b^aba[bbbaaa]`a_`b_aaaa[abaYba_a
@HWI-EAS443:3:12:1555:1584#0/1
AGCAAATAGTAGCATTGCCACAACACTTCAATGCATGTG
+HWI-EAS443:3:12:1555:1584#0/1
UY`¥`^`__Y_babab_`^`aX`aa`a_aa]a_`a_`aaXa
@HWI-EAS443:3:12:1595:1708#0/1
AGCAAATAGTAGCATTGCCACAACACTTCAATGCATGTG
+HWI-EAS443:3:12:1595:1708#0/1
ab``aaaab¥a`W`aaa`aa^a^^`Za`__^_aZ^_aX`
@HWI-EAS443:3:12:719:1523#0/1
AGCAAATAGTAGCATTGCCACAACACTTCAATGCATGTG
+HWI-EAS443:3:12:719:1523#0/1
]a`babb`Z_V_]NZX^[SYG¥S¥`b¥Y]X`b`[Z`baW_
@HWI-EAS443:3:13:869:420#0/1
AGCAAATAGTAGCATTGCCACAACACTTCAATGCATGTG
+HWI-EAS443:3:13:869:420#0/1
^bbabba`bab`P_]a`aab``^`a_a]``a^`aa_aa[b
@HWI-EAS443:3:13:944:902#0/1
GCAAATAGTAGCATTGCCACAACACTTCAATGCATGTG
+HWI-EAS443:3:13:944:902#0/1
a¥X^bbb]N]b`baZ_X``__T]___a__bW¥a^_aa__`
@HWI-EAS443:3:14:1757:1614#0/1
GATAGCAAATAGTAGCATTGCCACAACACTTCAATGCAT
+HWI-EAS443:3:14:1757:1614#0/1
a^^SWO]^^^_XWR^IX^]^UZXXSZU]X]Z¥G]XXXZXV
@HWI-EAS443:3:14:586:390#0/1
AGCAAATAGTAGCATTGCCACAACACTTCAATGCATGTG
+HWI-EAS443:3:14:586:390#0/1
aaaa`a_a¥`_Wa`a]^_Ya_`_^_]`[_^^a^X`Z_
@HWI-EAS443:3:14:586:578#0/1
AGCAAATAGTAGCATTGCCACAACACTTCAATGCATGTG
+HWI-EAS443:3:14:586:578#0/1
a_a`ba^b`H`W`aaa_aaa`a`M`a[aaa^^]a¥_``U`
@HWI-EAS443:3:14:926:1452#0/1
GCAAATAGTAGCATTGCCACAACACTTCAATGCATGTG
+HWI-EAS443:3:14:926:1452#0/1
`abbbbbb¥]bbabb_aaaaaa`¥abaaaab]`__aaa_UO
@HWI-EAS443:3:14:988:1178#0/1
GCAAATAGTAGCATTGCCACAACACTTCAATGCATGTG
+HWI-EAS443:3:14:988:1178#0/1
aaa`_NLL0]]SP]a`^XP`[_NZ__LYRY`a`^_YQ¥Y
@HWI-EAS443:3:15:1120:385#0/1
AGCAAATAGTAGCATTGCCACAACACTTCAATGCATGTG
+HWI-EAS443:3:15:1120:385#0/1
abbbbbb_bbbabbb_aaabaaaaabba_aaa``bb_a
@HWI-EAS443:3:15:708:1030#0/1
AGCAAATAGTAGCATTGCCACAACACTTCAATGCATGTG

+HWI-EAS443:3:15:708:1030#0/1
ababbbba`Naa_`baaaaaabbaaa`abbbaaa`aa^b
@HWI-EAS443:3:15:921:1693#0/1
GCAAATAGTAGCATTGCCACAACACTTCAATGCATGTGT
+HWI-EAS443:3:15:921:1693#0/1
abbababYQ`aaabba]a`abbabbaaa]bbab_abb_a_
@HWI-EAS443:3:15:928:578#0/1
AGCAAATAGTAGCATTGCCACAACACTTCAATGCATGTG
+HWI-EAS443:3:15:928:578#0/1
]_V____[S_ZS[[U_aZ`WPH_^]¥RYS^T``a[aaaSa
@HWI-EAS443:3:15:941:35#0/1
AGCAAATAGTAGCATTGCCACAACACTTCAATGCATGTG
+HWI-EAS443:3:15:941:35#0/1
`bab_bbbbbW`Vbbbb_N]Raa`bb[`aa`^bb__ab`a
@HWI-EAS443:3:16:1238:802#0/1
AGCAAATAGTAGCATTGCCACAACACTTCAATGCATGTG
+HWI-EAS443:3:16:1238:802#0/1
ab`bb`b__Xabaaaa`_``aaaa_aa_^¥`aHXaa^a
@HWI-EAS443:3:16:297:683#0/1
AGCAAATAGTAGCATTGCCACAACACTTCAATGCATGTG
+HWI-EAS443:3:16:297:683#0/1
abaabbbb]Y`aaab_a_a^W_a[aaaa]¥aa¥a_aaaRa
@HWI-EAS443:3:16:312:1819#0/1
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+HWI-EAS443:3:16:312:1819#0/1
^[\`bb]_a]Ybb`¥`VU`bbbabY[bbaaaab`a`aa`^_
@HWI-EAS443:3:16:738:1628#0/1
GGATAGCAAATAGTAGCATTGCCACAACACTTCAATGCA
+HWI-EAS443:3:16:738:1628#0/1
`a]¥PW_OXZ__J]W`^[[R^a_`J¥LS^aSV^]XZQUQ
@HWI-EAS443:3:16:948:1360#0/1
AGCAAATAGTAGCATTGCCACAACACTTCAATGCATGTG
+HWI-EAS443:3:16:948:1360#0/1
a`aaaaa]^Naaaaaaa_aaVaa[aaa__]b]^aY^_aX`
@HWI-EAS443:3:17:1499:1015#0/1
AGCAAATAGTAGCATTGCCACAACACTTCAATGCATGTG
+HWI-EAS443:3:17:1499:1015#0/1
abababbab`bb^]a__a`a`a`^_aaaa_^¥`a^`adW`
@HWI-EAS443:3:18:1588:873#0/1
GGATAGCAAATAGTAGCATTGCCACAACACTTCAATGCA
+HWI-EAS443:3:18:1588:873#0/1
^a0[a_RX]^_Oa¥Ua¥]a_a[PQY[VFZ^RX^W`VV¥]]
@HWI-EAS443:3:18:1734:426#0/1
GGATAGCAAATAGTAGCATTGCCACAACACTTCAATGCA
+HWI-EAS443:3:18:1734:426#0/1
^`Va`b`babbbb`ab^`aaZa``__a_a`Za]P]____^
@HWI-EAS443:3:19:1076:255#0/1
GCAAATAGTAGCATTGCCACAACACTTCAATGCATGTGT
+HWI-EAS443:3:19:1076:255#0/1
aaa¥X¥`[LXaa`a`_Y[]a`_``____^¥R_UZ`_U_X

@HWI-EAS443:3:19:1550:1535#0/1
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+HWI-EAS443:3:19:1550:1535#0/1
^U]OY¥^LXPaz[ZW_`FXV^`XWX¥^YGRG[¥[[UYSUB
@HWI-EAS443:3:19:580:204#0/1
AGCAAATAGTAGCATTGCCACAACACTTCAATGCATGTG
+HWI-EAS443:3:19:580:204#0/1
aaabbbba¥ab]aaaaaaaa`abaaaaaaaa`a]a
@HWI-EAS443:3:1:1594:980#0/1
AGCAAATAGTAGCATTGCCACAACACTTCAATGCATGTG
+HWI-EAS443:3:1:1594:980#0/1
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@HWI-EAS443:3:1:649:223#0/1
GCAAATAGTAGCATTGCCACAACACTTCAATGCATGTGT
+HWI-EAS443:3:1:649:223#0/1
a`a`aa`T[a_a`^]T_`_]__¥_a^_aU_^__Z]`^BBB
@HWI-EAS443:3:20:1530:39#0/1
AGCAAATAGTAGCATTGCCACAACACTTCAATGCATGTG
+HWI-EAS443:3:20:1530:39#0/1
aaaaabab^bb[a_aaa`aaa^_aa_aa[baaa^_aa]_
@HWI-EAS443:3:20:607:600#0/1
AGCAAATAGTAGCATTGCCACAACACTTCAATGCATGTG
+HWI-EAS443:3:20:607:600#0/1
aaQ_]_a__Z`ab^]``]a[`a_¥^V¥^]`a_a```aPa
@HWI-EAS443:3:20:912:1811#0/1
AGCAAATAGTAGCATTGCCACAACACTTCAATGCATGTG
+HWI-EAS443:3:20:912:1811#0/1
aYbb_S¥_VQb]^]aYZbaabb__a`ba_ab`__^`_a]`
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AGCAAATAGTAGCATTGCCACAACACTTCAATGCATGTG
+HWI-EAS443:3:21:1104:1891#0/1
^ZKa`Y¥TU_S]ZV__Vba`¥¥XZ_`_[Z_b[[Z_^aSGa
@HWI-EAS443:3:21:221:736#0/1
GCAAATAGTAGCATTGCCACAACACTTCAATGCATGTGT
+HWI-EAS443:3:21:221:736#0/1
aab_aa_^]`a`]a^`aaaaaaaa````^aa`_`aa^aW
@HWI-EAS443:3:22:1633:127#0/1
AGCAAATAGTAGCATTGCCACAACACTTCAATGCATGTG
+HWI-EAS443:3:22:1633:127#0/1
ab_aaaaab_`^]_aaa]___a_Z_`^`_X__^`^¥`aXa
@HWI-EAS443:3:23:1660:1250#0/1
AGCAAATAGTAGCATTGCCACAACACTTCAATGCATGTG
+HWI-EAS443:3:23:1660:1250#0/1
VaTa`^Ta^aabaa]]_aaa`bbVabY^a_[^`bU]`aUa
@HWI-EAS443:3:23:229:605#0/1
GGATAGCAAATAGTAGCATTGCCACAACACTTCAATGCA
+HWI-EAS443:3:23:229:605#0/1
aa_a``aba`a`^Za_a]_]____^^^_`^`__^^__Z`Z^
@HWI-EAS443:3:23:506:438#0/1
AGCAAATAGTAGCATTGCCACAACACTTCAATGCATGTG

+HWI-EAS443:3:23:506:438#0/1
Ob_ba_a`a[`ab_^¥`¥V]^aa]^¥a]aa^]abTIbb_b
@HWI-EAS443:3:24:1079:657#0/1
AGCAAATAGTAGCATTGCCACAACACTTCAATGCATGTG
+HWI-EAS443:3:24:1079:657#0/1
` `bbbbbbbaabbbbb`aaaababbabaab]abababab
@HWI-EAS443:3:24:1223:13#0/1
AGCAAATAGTAGCATTGCCACAACACTTCAATGCATGTG
+HWI-EAS443:3:24:1223:13#0/1
a`a`ab_Z]NSb[_bbaa`X`^Z]a^__[Xaaa^__aa^a
@HWI-EAS443:3:24:1715:922#0/1
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+HWI-EAS443:3:24:1715:922#0/1
a`abbbbaYabbaaaaaa`aa`aa_aaaaaa_`aa_a
@HWI-EAS443:3:24:179:1212#0/1
TAGCAAATAGTAGCATTGCCACAACACTTCAATGCATGT
+HWI-EAS443:3:24:179:1212#0/1
aabaa^abbbW^aa^aabaaaa_aabbaabbaaaaaaba_
@HWI-EAS443:3:24:323:1579#0/1
AGCAAATAGTAGCATTGCCACAACACTTCAATGCATGTG
+HWI-EAS443:3:24:323:1579#0/1
¥W_T¥UZ`_W¥Z¥PYZ^_aaZa¥][^ZZ]¥_R]`Ya_^TX
@HWI-EAS443:3:24:355:355#0/1
AGCAAATAGTAGCATTGCCACAACACTTCAATGCATGTG
+HWI-EAS443:3:24:355:355#0/1
`bbbbbbabaWbbbaaaaba`aaaaabaaaa_`a_`_aZ`
@HWI-EAS443:3:25:647:187#0/1
ATGCATTGAAGTAGTTGTGGCAATGCTACTATTTGCTATC
+HWI-EAS443:3:25:647:187#0/1
_a`ab_b^`ba]aaXab¥`[_`a[YU]YP[____]RVX_[V
@HWI-EAS443:3:28:1658:1592#0/1
GGATAGCAAATAGTAGCATTGCCACAACACTTCAATGCA
+HWI-EAS443:3:28:1658:1592#0/1
aa_]_aZZ_[]XWR`T`aX]ZYVL¥UYXWQQOSVWYZSW
@HWI-EAS443:3:28:229:1168#0/1
AGCAAATAGTAGCATTGCCACAACACTTCAATGCATGTG
+HWI-EAS443:3:28:229:1168#0/1
_`bbabaaTIbaa`a]Zbbaaabb`a_abbb`aaba`a_a
@HWI-EAS443:3:28:925:100#0/1
GCAAATAGTAGCATTGCCACAACACTTCAATGCATGTGT
+HWI-EAS443:3:28:925:100#0/1
aYa_P`a`[¥][^`a^¥]UV`ZSa[]__X_¥¥_WY`aY`W
@HWI-EAS443:3:2:1110:76#0/1
GGATAGCAAATAGTAGCATTGCCACAACACTTCAATGCA
+HWI-EAS443:3:2:1110:76#0/1
a`__`a__`^`__X_aW`_]XYX_^X^^Z]^Z]`WZ
@HWI-EAS443:3:2:1218:366#0/1
AGCAAATAGTAGCATTGCCACAACACTTCAATGCATGTG
+HWI-EAS443:3:2:1218:366#0/1
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@HWI-EAS443:3:2:1289:1714#0/1
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+HWI-EAS443:3:2:1289:1714#0/1
aaa_abaaa_baYaba^a_a`aa^aa_aa[aaaaVY[aaa
@HWI-EAS443:3:2:1464:1753#0/1
GGATAGCAAATAGTAGCATTGCCACAACACTTCAATGCA
+HWI-EAS443:3:2:1464:1753#0/1
aa]^a[____`S_W_aS]_Y^VUZ^¥^Z_WZ¥^O¥UZYUX
@HWI-EAS443:3:30:1292:296#0/1
AGCAAATAGTAGCATTGCCACAACACTTCAATGCATGTG
+HWI-EAS443:3:30:1292:296#0/1
[H_`b]bbb[a_V_¥`Q_`a_aab]^`ba_`abbXY`]Za
@HWI-EAS443:3:30:189:66#0/1
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+HWI-EAS443:3:30:189:66#0/1
aa`_`a`^^^`_R`a^aa`__^`a_Z____`^X¥^_`ZW
@HWI-EAS443:3:31:1329:1719#0/1
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+HWI-EAS443:3:31:1329:1719#0/1
Z`XJX^Zaba_RQQM_U¥aaaU^aa`aRP]_¥Waa^W`]N
@HWI-EAS443:3:31:462:1340#0/1
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+HWI-EAS443:3:31:462:1340#0/1
QJX]ba`b_X^Y¥aaWRa`a`a[Ja_`^_YaV[Y_]_aQ[
@HWI-EAS443:3:31:470:1096#0/1
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+HWI-EAS443:3:31:470:1096#0/1
ab¥YYV]a]SSa`aZT`a]_aZW_a`[Za_K]Y___WLT
@HWI-EAS443:3:31:677:1347#0/1
GCAAATAGTAGCATTGCCACAACACTTCAATGCATGTGT
+HWI-EAS443:3:31:677:1347#0/1
abaab_`aWaaV[`aWaaa`a__`a_]ab`_aa^]a[`X
@HWI-EAS443:3:32:1071:1148#0/1
AGCAAATAGTAGCATTGCCACAACACTTCAATGCATGTG
+HWI-EAS443:3:32:1071:1148#0/1
Z]ababb_b_abaaaa`ab`baYab_aaWb`a`a`aa_a
@HWI-EAS443:3:32:1680:1608#0/1
AGCAAATAGTAGCATTGCCACAACACTTCAATGCATGTG
+HWI-EAS443:3:32:1680:1608#0/1
¥a`¥Y¥_Y_¥`^`^`^Z¥YaYK[]a^^XbZ[¥a_baZZ
@HWI-EAS443:3:32:99:1908#0/1
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+HWI-EAS443:3:32:99:1908#0/1
`bbbaab[V^ab]aaSbaabbbbabbaabaUa`baa`]ZM
@HWI-EAS443:3:33:158:812#0/1
AGCAAATAGTAGCATTGCCACAACACTTCAATGCATGTG
+HWI-EAS443:3:33:158:812#0/1
aa_b`Y¥_`^]a[aba`]baba^^U^_]X_aaZU^a]]Y]`
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+HWI-EAS443:3:33:185:1128#0/1
aaba]aaY^Zaaaa__aaYaYa_aa_`aa_]`a^__X_
@HWI-EAS443:3:33:844:1328#0/1
AGCAAATAGTAGCATTGCCACAACACTACTTCAATGCATGTG
+HWI-EAS443:3:33:844:1328#0/1
a^`ba__Z`]a]aaa`_a`a`aa`a^_`adW`W_`]a
@HWI-EAS443:3:34:155:848#0/1
GGATAGCAAATAGTAGCATTGCCACAACACTACTTCAATGCA
+HWI-EAS443:3:34:155:848#0/1
UR_¥W_a^^a_Z^Zaa_Q]a_]aa¥¥_aabbaaa_a`a
@HWI-EAS443:3:34:165:750#0/1
GCAAATAGTAGCATTGCCACAACACTACTTCAATGCATGTGT
+HWI-EAS443:3:34:165:750#0/1
a`a]a^b_]`baY__^_aTaaZa_`a`a`_a__[UUa__Y
@HWI-EAS443:3:34:321:1928#0/1
AGCAAATAGTAGCATTGCCACAACACTACTTCAATGCATGTG
+HWI-EAS443:3:34:321:1928#0/1
``bb`_[bX[aa`[`PUYaa`abaSa[^_baa^¥^]SPVI
@HWI-EAS443:3:35:1257:301#0/1
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+HWI-EAS443:3:35:1257:301#0/1
aaaa`aab]ab```a`aaa_aa_`a^a`ba_`a`_aaY]Y
@HWI-EAS443:3:35:1441:797#0/1
GCAAATAGTAGCATTGCCACAACACTACTTCAATGCATGTGT
+HWI-EAS443:3:35:1441:797#0/1
aa_ababbYaab`a`aaVYXa_a^a_b^baaaaa`ba_a_
@HWI-EAS443:3:35:1614:1056#0/1
AGCAAATAGTAGCATTGCCACAACACTACTTCAATGCATGTG
+HWI-EAS443:3:35:1614:1056#0/1
]_Z__[^RYF^WYY^YVY`YQ^b`]NbYX^_]`RX```_a
@HWI-EAS443:3:36:133:214#0/1
AGCAAATAGTAGCATTGCCACAACACTACTTCAATGCATGTG
+HWI-EAS443:3:36:133:214#0/1
aabbaaa[a]aaW]_b`baaabbba]aa_aaaaa`a^`^^
@HWI-EAS443:3:36:514:271#0/1
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+HWI-EAS443:3:36:514:271#0/1
]babbaabb_bb_Zaaaaaabaaa`a``aaa`aa`_a^a
@HWI-EAS443:3:37:1161:896#0/1
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+HWI-EAS443:3:37:1161:896#0/1
ab__aaba```abb^`a`a^]^^a`Y`aG_]T`^RaaXa
@HWI-EAS443:3:37:1636:1278#0/1
AGCAAATAGTAGCATTGCCACAACACTACTTCAATGCATGTG
+HWI-EAS443:3:37:1636:1278#0/1
`b_¥Y`b`bba¥YVa_b_aabbbba_baLZ_abb``a[a
@HWI-EAS443:3:37:231:694#0/1
GCAAATAGTAGCATTGCCACAACACTACTTCAATGCATGTGT
+HWI-EAS443:3:37:231:694#0/1
aaa[^]XWLZb^)`W[]_X_a_]Ra__bUFYP_T[_U`Y

@HWI-EAS443:3:38:1500:388#0/1
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+HWI-EAS443:3:38:1500:388#0/1
aX[YYa^b][]_[0aa`XRZOPYWX¥¥_YX]X][W^ULS
@HWI-EAS443:3:39:187:1178#0/1
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+HWI-EAS443:3:39:187:1178#0/1
abbabba¥[aab`a`aabbbaaaaabb`bbb_`a^_b`a[
@HWI-EAS443:3:39:479:232#0/1
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+HWI-EAS443:3:39:479:232#0/1
ab_babbbbaUa[`a¥Iaaababaaaaabaa^U`aa`¥a`a
@HWI-EAS443:3:39:923:734#0/1
AGCAAATAGTAGCATTGCCACAACACTTCAATGCATGTG
+HWI-EAS443:3:39:923:734#0/1
^U[`QGYUaSaa]_``]XILTR`¥Za]a^YORY^^0]]U^
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+HWI-EAS443:3:40:1204:195#0/1
_aWaa[^ba`bba¥`bbaZ^a]_ababa_aaaaa`Z__¥]
@HWI-EAS443:3:42:1578:1453#0/1
GATAGCAAATAGTAGCATTGCCACAACACTTCAATGCAT
+HWI-EAS443:3:42:1578:1453#0/1
][`aabbb_abaabbabbbaba_aa`aaaa^^a`ab_`a
@HWI-EAS443:3:42:262:958#0/1
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+HWI-EAS443:3:42:262:958#0/1
_aZabaaS`Zbab_a¥]]aaaaZaabaabaaaaaa`a_a
@HWI-EAS443:3:43:1020:678#0/1
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+HWI-EAS443:3:43:1020:678#0/1
ab_abbbbbababbbbbbababaabbabbb`bbbaabba
@HWI-EAS443:3:43:1067:1478#0/1
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+HWI-EAS443:3:43:1067:1478#0/1
aa`baabbaabbaabbaaaaaaaaab`baabaaa^abb`a
@HWI-EAS443:3:43:1371:1014#0/1
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+HWI-EAS443:3:43:1371:1014#0/1
ab`a_aabaabba_abaaaaa`_``aa^aa^aa`a`aa__
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+HWI-EAS443:3:43:1690:401#0/1
^bbbbbba_aabb^aab`^S[bab]`aaaaaaa`[`bba_
@HWI-EAS443:3:43:215:73#0/1
GGATAGCAAATAGTAGCATTGCCACAACACTTCAATGCA
+HWI-EAS443:3:43:215:73#0/1
abbabbbb_bbaa¥`b]R]aaaaaa`a_ab``b_`^^a__
@HWI-EAS443:3:43:228:1925#0/1
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+HWI-EAS443:3:43:228:1925#0/1
aa_bbbb`baabbbabababbabbabbabbaa`bbb_bY
@HWI-EAS443:3:44:1041:1905#0/1
AGCAAATAGTAGCATTGCCACAACACTTCAATGCATGTG
+HWI-EAS443:3:44:1041:1905#0/1
¥abb]XaYYP_X`aa`0_`^a^[Za¥_^^aa`aY_U_]_
@HWI-EAS443:3:44:1335:1623#0/1
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+HWI-EAS443:3:44:1335:1623#0/1
`_`b[S`ab`_b`_VW``]]FTQ_a`_aaa`V``U`]a__
@HWI-EAS443:3:44:1700:1700#0/1
GCAAATAGTAGCATTGCCACAACACTTCAATGCATGTGT
+HWI-EAS443:3:44:1700:1700#0/1
a^_[ZS`YZR_[S_GQPvX^¥[R]UY_[V[W^`YS]]Y_S
@HWI-EAS443:3:44:1775:831#0/1
AGCAAATAGTAGCATTGCCACAACACTTCAATGCATGTG
+HWI-EAS443:3:44:1775:831#0/1
]YYX[a_V¥GX``U`¥¥^YZaX_[Y]SaaX[``^]O]_QU
@HWI-EAS443:3:46:23:933#0/1
AGCAAATAGTAGCATTGCCACAACACTTCAATGCATGTG
+HWI-EAS443:3:46:23:933#0/1
a_aab`a``N][aa]a_b__^`[]`a`_]`_`[]Pa_]`
@HWI-EAS443:3:46:578:1187#0/1
ATAGCAAATAGTAGCATTGCCACAACACTTCAATGCATG
+HWI-EAS443:3:46:578:1187#0/1
a^aaab`^_YaXaa`_aa_]`^a`¥`a_a__`a^^__a_
@HWI-EAS443:3:47:1122:1968#0/1
AGCAAATAGTAGCATTGCCACAACACTTCAATGCATGTG
+HWI-EAS443:3:47:1122:1968#0/1
aYI`abbbV[]`]abab``a`aaWaa`a`_a``a_`aaRa
@HWI-EAS443:3:47:1719:817#0/1
AGCAAATAGTAGCATTGCCACAACACTTCAATGCATGTG
+HWI-EAS443:3:47:1719:817#0/1
a_ab`[``Y_JabX``¥^aa_aba`aa`a`aa`¥_]_``Z`
@HWI-EAS443:3:49:1144:1203#0/1
GCAAATAGTAGCATTGCCACAACACTTCAATGCATGTGT
+HWI-EAS443:3:49:1144:1203#0/1
_`^b_bbZa¥`b^]abba`_`bbaaababaab]abaaab]b_
@HWI-EAS443:3:49:1481:650#0/1
AGCAAATAGTAGCATTGCCACAACACTTCAATGCATGTG
+HWI-EAS443:3:49:1481:650#0/1
_bbbab`^`bbbbbb]_aaaaabbbaa_aa````_baaa
@HWI-EAS443:3:49:223:1442#0/1
AGCAAATAGTAGCATTGCCACAACACTTCAATGCATGTG
+HWI-EAS443:3:49:223:1442#0/1
abbabaa_XPZ`KXb_Q¥`b^_`Sb`aaa]aa`bWabb`b
@HWI-EAS443:3:4:127:1477#0/1
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+HWI-EAS443:3:4:127:1477#0/1
aaaa__aa_abbaaa]^`]aaaa^aa`_a`aa`aaaa_a

@HWI-EAS443:3:4:143:1958#0/1
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+HWI-EAS443:3:4:143:1958#0/1
aZaW¥`ZY`UVJITRO[WOR]VX]Z^[[UX`X_XXYU`_
@HWI-EAS443:3:50:1449:1709#0/1
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+HWI-EAS443:3:50:1449:1709#0/1
aaababaZV¥aa]`[`a`Yaaa_H_aa_a]a_`]R^aaZ[
@HWI-EAS443:3:50:176:1508#0/1
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+HWI-EAS443:3:50:176:1508#0/1
]b_abbaa_Pa_Z`ba`YVSaa`bb`aaaa]¥aLabb`_
@HWI-EAS443:3:51:1119:832#0/1
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+HWI-EAS443:3:51:1119:832#0/1
`T[¥I`aaaab`aaaab]¥]_aa`¥a``aaaa`aa¥`a
@HWI-EAS443:3:51:478:871#0/1
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+HWI-EAS443:3:51:478:871#0/1
_ab`¥I`^abaa__aabaa`_aa^aa_abab^aa_a^aGa
@HWI-EAS443:3:52:512:1550#0/1
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+HWI-EAS443:3:52:512:1550#0/1
aaaaa_aaT`b_aa`_a_^_a_aa`_a^`¥`aaaaa^_Y
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AGCAAATAGTAGCATTGCCACAACACTTCAATGCATGTG
+HWI-EAS443:3:52:524:40#0/1
]_]__¥]bb__`_aa`Vaaa]`a`a_Yaa]`^_a^Zb`U_
@HWI-EAS443:3:52:995:1821#0/1
AGCAAATAGTAGCATTGCCACAACACTTCAATGCATGTG
+HWI-EAS443:3:52:995:1821#0/1
`[ab^Z]a¥^ba__b_V]]W¥¥bTba^a[Taaaa`_aa_a
@HWI-EAS443:3:54:1320:1405#0/1
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+HWI-EAS443:3:54:1320:1405#0/1
aba`baab_bbba``babbaaaaaaba_bbaba^a^_aa_
@HWI-EAS443:3:54:32:1688#0/1
AGCAAATAGTAGCATTGCCACAACACTTCAATGCATGTG
+HWI-EAS443:3:54:32:1688#0/1
X`a`[b¥aH__Vaa`¥YaaaaaYZaa`]^XXaa`aa`S]
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+HWI-EAS443:3:54:909:842#0/1
ZV¥`_NQR]¥_V^YRVX_^_[S^__¥`_`bbaYaYX¥]a_
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+HWI-EAS443:3:55:1434:499#0/1
aba`_bbbabbbbbbabaaba^ab_baaaaab[_bb`b^
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@HWI-EAS443:3:55:815:768#0/1
CATGCATTGAAGTAGTTGTGGCAATGCTACTATTTGCTAT
+HWI-EAS443:3:55:815:768#0/1
abaa_abaa`_a^`a_aa]aaY__`a[_a_ZZ]a`__[TH
@HWI-EAS443:3:55:834:224#0/1
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+HWI-EAS443:3:55:834:224#0/1
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+HWI-EAS443:3:55:841:1781#0/1
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@HWI-EAS443:3:56:1531:1037#0/1
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+HWI-EAS443:3:56:1531:1037#0/1
a_abaaabb`_b_abaaa`aaa_aa_bb_a_ab^_ab`b
@HWI-EAS443:3:56:1587:1847#0/1
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+HWI-EAS443:3:56:1587:1847#0/1
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+HWI-EAS443:3:56:1619:155#0/1
¥ZY^Sa`aabb¥SZ^HH]W^`P]aQa`W_¥X[XXVa[[Q
@HWI-EAS443:3:56:166:370#0/1
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+HWI-EAS443:3:56:166:370#0/1
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@HWI-EAS443:3:56:523:164#0/1
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+HWI-EAS443:3:56:523:164#0/1
a`aba`a]JS`b¥__]^`^Q¥[aU[_^U`_]aXUa[¥^a]a
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+HWI-EAS443:3:57:1056:112#0/1
aabbabab^aba`aabaaa_aa`aa``_aa_a]^aa^aW
@HWI-EAS443:3:57:304:1645#0/1
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+HWI-EAS443:3:57:304:1645#0/1
ab_baab^Y]baaaabab__aba_aa`a`aaaaY_aaYZ_
@HWI-EAS443:3:58:1264:702#0/1
AGCAAATAGTAGCATTGCCACAACACTTCAATGCATGTG
+HWI-EAS443:3:58:1264:702#0/1
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@HWI-EAS443:3:58:1504:1031#0/1
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+HWI-EAS443:3:58:1504:1031#0/1
aa_a`baa_a^aaba`a`^a_Zaa_aaVa`_`_a_X[Z

@HWI-EAS443:3:58:1766:1716#0/1
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+HWI-EAS443:3:58:1766:1716#0/1
_¥Q¥TYb`a]__^`a`[XQ]W]_RZ¥0[X¥`^T_Y`_¥a
@HWI-EAS443:3:58:924:1176#0/1
AGCAAATAGTAGCATTGCCACAACACTTCAATGCATGTG
+HWI-EAS443:3:58:924:1176#0/1
¥__a`aa_¥]``a]aaa^_`Va_Wa`^aa[_]a_]aZYa
@HWI-EAS443:3:59:1504:1078#0/1
GCAAATAGTAGCATTGCCACAACACTTCAATGCATGTGT
+HWI-EAS443:3:59:1504:1078#0/1
¥_H^bbb_bb`Z[bbabaaaaabbbabb¥`b_a```__a¥
@HWI-EAS443:3:59:1788:1724#0/1
AGCAAATAGTAGCATTGCCACAACACTTCAATGCATGTG
+HWI-EAS443:3:59:1788:1724#0/1
aaababbbaa_bb[aaaa`aa`aaabaabbba]aa_^``]_
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+HWI-EAS443:3:5:1063:1379#0/1
Ya_aabb¥baba¥aba`]H_¥VbWbaabaXWZ]aT_ab`B
@HWI-EAS443:3:5:39:1750#0/1
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+HWI-EAS443:3:5:39:1750#0/1
`¥aaa¥`a¥Yaaa`aXT^`bab¥ba`aaaa`X`aa^bZ¥
@HWI-EAS443:3:60:1644:540#0/1
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+HWI-EAS443:3:60:1644:540#0/1
a^`¥a`b_ab_aZ]^T]a`^[[^Wa]L_`^__`__`[_`_
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+HWI-EAS443:3:60:714:700#0/1
abbbbbbb`bbaabbaaa`aab`aaaaaab_aa^_aa]a
@HWI-EAS443:3:61:1276:1780#0/1
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+HWI-EAS443:3:61:1276:1780#0/1
^JY_aa`^^Vaa[aaaaabaa`[]`aaa¥PX`_YM¥]¥PW
@HWI-EAS443:3:61:1278:497#0/1
GCAAATAGTAGCATTGCCACAACACTTCAATGCATGTGT
+HWI-EAS443:3:61:1278:497#0/1
a_a_```_Z``]Y```````````__`__`__`^^XTZ_]XWX
@HWI-EAS443:3:61:76:316#0/1
AGCAAATAGTAGCATTGCCACAACACTTCAATGCATGTG
+HWI-EAS443:3:61:76:316#0/1
abb`_S¥`N_b^a`a]bbba`Yb[_]`¥`[_`a`_WW]S`
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+HWI-EAS443:3:62:1727:1685#0/1
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+HWI-EAS443:3:62:195:288#0/1
`bb_abbba]ba` `aabbaaa_X` `^` `aaa` ¥Xa`^a`^a
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+HWI-EAS443:3:62:59:245#0/1
a_a¥_¥^WP`_V^^X^U^_^^_¥_^]Z]]_]YZ]ZZ]OZY
@HWI-EAS443:3:62:896:866#0/1
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+HWI-EAS443:3:62:896:866#0/1
ab^[a^`b`]^^aZ_a`V^UY` `Z^_]` `aa` `a]X¥aa_
@HWI-EAS443:3:62:955:859#0/1
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+HWI-EAS443:3:62:955:859#0/1
a` `ba` a` _^aa` `a` `aaaa` [_]` ` ` ` ` ____Y` `Z`
@HWI-EAS443:3:64:1283:2030#0/1
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+HWI-EAS443:3:64:1283:2030#0/1
abaa]aaa_baaGba[aaa`a`aaaa`^`a`__`a`_` ` `]]
@HWI-EAS443:3:64:1458:369#0/1
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+HWI-EAS443:3:64:1458:369#0/1
_V^baabb` ` _Yab]aa[` ¥` a` _b` _b` Ra` ` bU^` _aYbU
@HWI-EAS443:3:64:865:2010#0/1
AGCAAATAGTAGCATTGCCACAACACTACTTCAATGCATGTG
+HWI-EAS443:3:64:865:2010#0/1
a^Z` bbbaaZba_XZa` ^W]aaa` `a` _` `aaaa` [aa]a
@HWI-EAS443:3:65:1153:1493#0/1
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+HWI-EAS443:3:65:1153:1493#0/1
aab` _bb` a[` ^` [_aaaaaaababaaa` `aaa` ^aa` ^aZ
@HWI-EAS443:3:66:1142:1769#0/1
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+HWI-EAS443:3:66:1142:1769#0/1
abbbbb`]_baaaaaaaabaaabbbaaaaaa` `aaa]aX
@HWI-EAS443:3:66:1284:1208#0/1
AGCAAATAGTAGCATTGCCACAACACTACTTCAATGCATGTG
+HWI-EAS443:3:66:1284:1208#0/1
^¥` aaa[^X^` _` ^` b¥a` ` _aa` _S` _b` ` ` aYa]` ` a` ` a` _]V
@HWI-EAS443:3:66:187:1378#0/1
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+HWI-EAS443:3:66:187:1378#0/1
_¥bbaba` a` _abb]aa` _bbba` `bbabaa` `aaa` ` ` `aaa` `^` _
@HWI-EAS443:3:66:716:707#0/1
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+HWI-EAS443:3:66:716:707#0/1
abab` `bab` ^` _Z` ` `ba` `aaa]` `aa` `a]` ` ` _SZaa` `a]` _
@HWI-EAS443:3:67:1293:1583#0/1
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+HWI-EAS443:3:67:1293:1583#0/1
ab[bababbbaaa]Q]T` _ab` `¥^` a` ` `aa` ^` ba` _aY` `a` ` ^` _`

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+HWI-EAS443:3:67:1763:1906#0/1
aba^^`abbaaa^WaaW_aa___a_``]`a_`Z__^Y`[_
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+HWI-EAS443:3:67:360:1043#0/1
^abb^aa¥_VbaaUaaab`_aXbbb¥babbb¥_b^Va`Wb
@HWI-EAS443:3:67:365:834#0/1
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+HWI-EAS443:3:67:365:834#0/1
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+HWI-EAS443:3:67:674:1442#0/1
_Z`babaaa^a]bbba`b`]a_b`aaaa`aaa_aaaa[R¥
@HWI-EAS443:3:67:712:1545#0/1
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+HWI-EAS443:3:67:712:1545#0/1
aaabaabba_b`b¥aa`aaaaaaaaaaaaab_``aa`a^a
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+HWI-EAS443:3:68:1412:332#0/1
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+HWI-EAS443:3:68:1417:850#0/1
a^___a^_X`a^]_^Y_^]^^_^^___]^^Z]`ZW_^W^U
@HWI-EAS443:3:68:365:1721#0/1
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+HWI-EAS443:3:68:365:1721#0/1
aaabbbab_]aaaa`aaaaaba``baaaaa_````X`
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+HWI-EAS443:3:68:542:837#0/1
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@HWI-EAS443:3:68:820:167#0/1
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+HWI-EAS443:3:68:820:167#0/1
abbaababbW^b`U`ab`baaaa_aaaaaa_aaa``a^a
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+HWI-EAS443:3:69:1192:473#0/1
aaaaaaaaa]aa]aaaa^a_``_aa_`_]a__a__`aW_]`
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+HWI-EAS443:3:69:214:277#0/1
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+HWI-EAS443:3:6:1749:938#0/1
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`^`abaaaa¥` ``__a¥]¥a_YaWab_aa[`` `a¥a`a^a
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a^aaaaabZaaa`aaa^_a]`a_aa_aa`a__a¥^adWaW
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+HWI-EAS443:3:70:752:1329#0/1
aaaaa_R` `¥`a`aa`_bbaabaaaa` `a`_`aa^_a^ [
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+HWI-EAS443:3:70:884:1400#0/1
ab_Y^` `[Paabbaa`babb¥baaaa`^¥a` `^`aWa¥` [
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+HWI-EAS443:3:71:1372:930#0/1
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+HWI-EAS443:3:71:635:238#0/1
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@HWI-EAS443:3:71:97:317#0/1
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+HWI-EAS443:3:71:97:317#0/1
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+HWI-EAS443:3:72:464:243#0/1
abababababa_bbaabaaa`a_aa_aaa`aa^_`aZ`aa
@HWI-EAS443:3:73:1214:1043#0/1
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+HWI-EAS443:3:73:1214:1043#0/1
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+HWI-EAS443:3:73:1232:270#0/1
a` [QLWQZRJUULZXQLJZM[ZPXNNWZ][SWPUPS^N]N

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+HWI-EAS443:3:73:196:435#0/1
`bbbaabaa[aaaaaaaaaaaa`aaaaaa`aaaa_aaZ_
@HWI-EAS443:3:73:375:1163#0/1
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+HWI-EAS443:3:73:375:1163#0/1
a`bbbbbbba_bbaabaabaaaa^aa^aaabba`aa`a¥W[
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+HWI-EAS443:3:73:433:568#0/1
`Za¥U_XLQaa`ZV[[_WKTa¥XX]`¥[¥[X]X[_aW^V
@HWI-EAS443:3:73:875:856#0/1
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+HWI-EAS443:3:73:875:856#0/1
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@HWI-EAS443:3:74:1087:1296#0/1
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+HWI-EAS443:3:74:1087:1296#0/1
_WXURWX]ORQPNMTXUPW¥]aaaYVOTLYUSRUNT`N]O
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@HWI-EAS443:3:74:78:148#0/1
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+HWI-EAS443:3:74:78:148#0/1
`Z¥`aaaaaWU`a[_`a_`^`^`^`^`_]`^`^^^`^^
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+HWI-EAS443:3:74:81:205#0/1
a`^`^`_^]aa^^`^^a_`_`_]`_¥Y¥W^]Y__XY]W^X
@HWI-EAS443:3:74:961:1638#0/1
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+HWI-EAS443:3:74:961:1638#0/1
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@HWI-EAS443:3:75:618:1322#0/1
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+HWI-EAS443:3:75:618:1322#0/1
^¥_`aYabb`bbbb[`aa]¥aba]Z]Yaabba_ba`aWb
@HWI-EAS443:3:75:765:1583#0/1
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+HWI-EAS443:3:75:765:1583#0/1
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@HWI-EAS443:3:76:1629:486#0/1
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+HWI-EAS443:3:76:1629:486#0/1
```^`^`ab]aa`Y^^ab^abab`\_```bbaa`ab^`aa¥b  
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+HWI-EAS443:3:77:591:661#0/1  
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+HWI-EAS443:3:77:617:2036#0/1  
``a`babb`bb\_¥baaaaa\_`abaaaaaa`aaaa\_^`  
@HWI-EAS443:3:78:903:873#0/1  
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¥V]]b¥JT`Xb¥¥abX]^Z¥aaa^Y][^aU[YEF`^b\_[[  
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+HWI-EAS443:3:92:208:731#0/1  
¥baaaa]W¥aaaaXRX`aX¥`\_`Z\_]Y^a^`\_Za`]a\_\_\_\_  
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+HWI-EAS443:3:93:254:1532#0/1  
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+HWI-EAS443:3:93:701:1787#0/1  
a`a`][\_\_\_\_a\_\_^\_Za^\_\_\_\_^]X`Z]a\_]^\`^]\_  
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\_U^^ab\_bba]YVbK]¥U[bb[]S¥Vaa`bab\_\_bba`  
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+HWI-EAS443:3:94:239:1514#0/1  
\_ZX]¥`\_\_a\_S^aa^a`\_\_`a\_[Z`¥a\_ZTaa`\_`Y`\_\_a  
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aaa\_¥a]`\_a`^^R^^aJ^\_`ZYPRRTH\_`Y`WS\_¥]B  
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+HWI-EAS443:3:98:357:839#0/1  
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aaa`\_aaaabaa\_bb\_aaYaaa\_Y\_`\_aa^`a^aa^\_\_¥`  
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+HWI-EAS443:3:99:881:1314#0/1  
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aaabb^a^\_Za`^a\_aX]a]`a``\_\_U¥`Z]\_Sa^S[\_X  
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aaa\_S^aa][aa^\_\_[T`a\_\_\_aY¥`UXaaY]^W]^\_\_a]  
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aaa`\_a]^X`\_\_\_\_^Z`X^\_a[W`\_^`\_Za^U`V`]\_  
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ab`\_`\_a¥¥X`a`¥¥`¥¥a¥Z^\_W^QW^`W`YW^[Z\_YN  
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a\_aa^^`¥`\_`aaXXUU¥U¥a\_a¥aaaaa\_^Z¥a`¥`Z¥  
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+HWI-EAS443:3:85:401:1555#0/1  
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+HWI-EAS443:3:89:413:1284#0/1  
[\_]QXYM]O\_Z\_V¥`¥LH`a`]a^a`b`]\_`a^PR`[¥T

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+HWI-EAS443:3:90:42:1580#0/1  
aaa¥U`^VYZ`¥a\_a`[a[VZWVY¥¥R¥^aa¥a^^^`UU  
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+HWI-EAS443:3:95:569:1218#0/1  
a`baa\_[^a^\_aaa\_]U\_`[YaaUa]a`^\_XU`^\_\_VXaX  
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+HWI-EAS443:3:96:77:1814#0/1  
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+HWI-EAS443:3:15:1039:1415#0/1  
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+HWI-EAS443:3:24:760:1025#0/1  
` `]W^ba` `aaa` aabaZaa` [ `aaa` a` aa` \_a` \_` \_a^  
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+HWI-EAS443:3:32:1077:1171#0/1  
a^¥` ]a` \_ \_[]ba` \_ UX` `` \_` ^¥] \_\_\_\_\_ `Z\_¥` ]]] [V  
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YQ]a` ^PR[\_Wa[^ZX` N¥` `` \_[U[a^]^[SYLYZ^SOW¥  
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+HWI-EAS443:3:35:1243:365#0/1  
aaa^a^0[\_b^` ` [ `aa]ab] [\_` ¥¥\_Y` V\_` ^` [a^a¥`  
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+HWI-EAS443:3:35:1572:1102#0/1  
a^aa\_aa` ^` \_]a` [\_]\_¥¥¥¥]YZX] `UVXZ]aaZa^aVP  
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a^^aba` \_` \_a` \_` \_a` \_X\_a0]a^` ^XZ[]]Z\_]W` ^` \_U  
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a\_aabba` \_a` a` \_` \_aa` ^aa^aaaa` \_` \_` \_]aa\_adW` \_`  
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a` \_` \_a` ^` ^` Ua[\_\_\_ZN¥a¥^] ]\_` ^YY^^` ^NZ]Z^[X\_` ^`  
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+HWI-EAS443:3:59:907:2024#0/1  
a` \_` \_aaaa` `` `aa` aa^^` `` \_` \_aa` \_` aaaaaU^` ZZX^^]  
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a\_Z^` \_X^Y^` \_]X\_] ]\_X\_] ]X]^]YZPS]XXZZZZZZXZ



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a0\_VOS][[\_`\_\_¥W\_UQY[]ZX]^aZO]^\_^^ZZUZROWW  
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a[`]¥]\_U]\_[a`¥]a\_0\_YYY`W¥RNYS`\_] ]^0\_]\_`^  
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a^aaaa`a\_a`aaaaa^abaaa``]\_`a`^`^`^`^`a\_  
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\_PYXS¥``ZSZ`]\_NZSQ^^USU[]RUT]VMVY]BBBBB  
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`ZYWY`]RYZ``[a¥^a[b```aa`baba¥`^`aa``aa^  
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+HWI-EAS443:3:76:1555:1575#0/1  
`^`¥\_`¥\_\_XG]¥Z[\_`SXZ]]]W¥VX]W^^Z^\_ZZMBBB  
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`X`] ]^^XU]aba]U]UXTXR¥`\_\_ [RX[YQWK\_^a¥XVK  
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aaabaa\_]\_aaa`a\_`0`a\_`a`\_^\_]a\_^`\_^a\_`\_^  
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aX```a`Z]`¥a\_\_`^\_Z\_`]\_a]]]W^^a^Z\_\_Z\_]Z^]  
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+HWI-EAS443:3:1:687:135#0/1  
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+HWI-EAS443:3:50:1340:1575#0/1  
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+HWI-EAS443:3:72:1174:1187#0/1  
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+HWI-EAS443:3:83:1710:1493#0/1  
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+HWI-EAS443:3:83:753:804#0/1  
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+HWI-EAS443:3:18:386:1501#0/1  
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+HWI-EAS443:3:6:316:253#0/1  
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+HWI-EAS443:3:83:1087:778#0/1  
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+HWI-EAS443:3:1:1012:1247#0/1  
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+HWI-EAS443:3:31:169:780#0/1  
aaZ]^a^baS]\_aaab\_aaaa^`] `a¥V^^` `a\_^\_¥`]  
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+HWI-EAS443:3:31:216:1159#0/1  
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+HWI-EAS443:3:23:1714:449#0/1  
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+HWI-EAS443:3:33:705:1225#0/1  
[\_`\_G\_\_a`\_]\_ba^XZa`b`aa]ZabYaZa¥XU\_] [\_G¥a

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+HWI-EAS443:3:37:135:203#0/1  
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+HWI-EAS443:3:40:546:984#0/1  
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+HWI-EAS443:3:4:257:1015#0/1  
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ab``\_abaI\_Q[\_¥`I\_]`aaYUSNXH[]W^LQWPQQ]  
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+HWI-EAS443:3:77:52:434#0/1  
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+HWI-EAS443:3:82:1723:1180#0/1  
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+HWI-EAS443:3:84:672:1757#0/1  
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+HWI-EAS443:3:83:702:1841#0/1  
aa\_V```a\_V`aP\_\_¥^[]^\_\_`^)^R¥^¥`V\_T\_N\_[\_V  
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TTGTGGAGACGCATATAGACTGTTGAATACAGATTTTCC  
+HWI-EAS443:3:90:304:1472#0/1  
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+HWI-EAS443:3:18:650:429#0/1  
ab`XR[^ZaTXS\_abb[T`^]a`S^`a`^XZDUT\_Z`SR\_  
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abaTa\_a\_YDU[a\_aaa`a\_a\_Ua]a\_\_a`]^`\_\_\_^a^^]  
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V\_` [bbb\_Q\_b[\_aWW\_LX\_\_Y\_\_U` [Q[^a]baaa]ZXF  
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a¥`aa`^aabaab\_aaaaa`\_a\_aa\_a]``\_a¥\_^\_^]^  
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+HWI-EAS443:3:96:267:336#0/1  
aabb^babbbba`^aaaa\_baaa`aaaaaa\_a¥aaa`^^¥N  
@HWI-EAS443:3:15:1264:661#0/1  
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+HWI-EAS443:3:15:1264:661#0/1  
aaa^aa``^\_VYaa\_a\_aa`\_`a`aaXa\_a\_``aa[``^^`  
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+HWI-EAS443:3:33:1629:1175#0/1  
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+HWI-EAS443:3:53:1754:1317#0/1  
\_a\_\_bb`b`Qa`\_\_Vb^\_aaaX`Z`\_Xaa`YMW\_```[\_OX  
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+HWI-EAS443:3:72:972:619#0/1  
aaa`^a^a[]a`aa¥aaa``aZ``¥¥a\_¥]U`\_\_a\_\_`\_[  
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+HWI-EAS443:3:11:1073:695#0/1  
X\_aZ` `aaabbb¥ZbaZ`aa¥\_NG¥aaZYV[Wa¥¥T¥a^D  
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aaa\_a]¥a\_a\_SUHY[V[[U[YSUWXOIJ\_W][UZ[VQSU  
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+HWI-EAS443:3:11:809:1001#0/1  
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+HWI-EAS443:3:12:37:891#0/1  
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+HWI-EAS443:3:13:1650:524#0/1  
a\_\_Q]\_^T`abb^bRRXRv`[\_^\_Y^PX^\_ZKP]GW]V]  
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+HWI-EAS443:3:13:487:1249#0/1  
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+HWI-EAS443:3:13:97:1493#0/1  
aWk`\_ba\_Z¥^`\_`^`]a\_b`\_]\_a[]aa`\_]\_[^a\_]Y\_W  
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+HWI-EAS443:3:14:1233:503#0/1  
a`a`a`a^^`\_`aa`\_\_^\_]^^\_AY[^\_]^\_YVY^Y]Y]  
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+HWI-EAS443:3:15:1275:1494#0/1  
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+HWI-EAS443:3:15:694:1573#0/1  
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+HWI-EAS443:3:17:1128:160#0/1  
abbaaaaaaa`aaaaa`\_`\_a\_Z`^a]\_\_\_\_^]^^^\_¥X

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[TW\_aU¥^aa^Zab`[\_^Z^]N\_T`a`0a]\_`XM``]ZX  
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+HWI-EAS443:3:17:1612:1021#0/1  
aa^aaa`a`aaaa\_\_\_a\_`aX^aVa^^V`V\_\_\_V^`]PYV  
@HWI-EAS443:3:17:1654:749#0/1  
GCAATCGAGGAGTGCCTGATTAATGATCCCTGGGTTTTGC  
+HWI-EAS443:3:17:1654:749#0/1  
Zab`¥```ba]]J\_\_Ya`aa]aaa[`aY¥aaba`V^^``]  
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+HWI-EAS443:3:17:279:997#0/1  
aa\_V\_a`[\_`aZ\_aa\_aa\_`a`aa\_``]^\_\_]\_``\_]^\_]\_  
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GTTGTCCCTAAGTGCCTGAACAATGAGAAGCAATTTTCTC  
+HWI-EAS443:3:17:354:399#0/1  
aaaaZaaaa¥`^aa`\_a\_dW`a\_\_^\_a\_a^`]`^\_^`\_`\_  
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+HWI-EAS443:3:18:1115:424#0/1  
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+HWI-EAS443:3:18:1395:818#0/1  
a\_a]\_`a\_\_]`a¥```]aaV``Z]^\_V\_\_^]]^^\_\_Z^]W  
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+HWI-EAS443:3:18:512:103#0/1  
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+HWI-EAS443:3:18:717:556#0/1  
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+HWI-EAS443:3:19:1047:948#0/1  
\_b`abbbba`b``a\_bab`b`ab\_a¥^¥[aa\_aaaaaa\_\_¥  
@HWI-EAS443:3:19:181:704#0/1  
AATCGAGGAGTGCCTGATTAATGATCCCTGGGTTTTGCTT  
+HWI-EAS443:3:19:181:704#0/1  
aaaa`YaaVaX\_\_\_`aZ\_[]\_`Y]\_ZZ^Za^\_]^^^\_]\_  
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+HWI-EAS443:3:19:976:1672#0/1  
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+HWI-EAS443:3:1:1049:1061#0/1  
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+HWI-EAS443:3:20:1506:57#0/1  
aa`^`bbaabaab``\_b¥`¥a`^aZ`^W¥[]\_¥YSUQ  
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+HWI-EAS443:3:21:1387:1594#0/1  
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+HWI-EAS443:3:21:654:635#0/1  
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+HWI-EAS443:3:22:1010:1617#0/1  
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+HWI-EAS443:3:23:1320:525#0/1  
a`aaa[aaaa`aa\_Xa\_a`ZZR`]\_¥^^^^`\_]a]^¥X  
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+HWI-EAS443:3:23:1465:1457#0/1  
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+HWI-EAS443:3:23:1572:1562#0/1  
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+HWI-EAS443:3:23:1748:1299#0/1  
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@HWI-EAS443:3:23:244:1494#0/1  
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@HWI-EAS443:3:23:429:238#0/1  
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+HWI-EAS443:3:23:429:238#0/1  
aabaaa\_\_aaa\_a`aa[aaa\_`a\_aaa`\_a``a\_^\_^^``  
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+HWI-EAS443:3:23:704:626#0/1  
\_aa\_a]W\_a`aa]¥a`a`^Q`aV\_aa]¥Y[]a^[]¥T^\_  
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+HWI-EAS443:3:23:800:1273#0/1  
a[aXa\_abab`baaaaaaaaaa`\_\_\_\_\_[]`\_`a`a[]]  
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+HWI-EAS443:3:24:170:838#0/1  
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+HWI-EAS443:3:24:1763:1618#0/1  
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+HWI-EAS443:3:25:1231:651#0/1  
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+HWI-EAS443:3:25:569:1632#0/1  
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+HWI-EAS443:3:26:1665:1498#0/1  
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+HWI-EAS443:3:26:954:1201#0/1  
X[a`a)`abaaaaaaaaa\_\_`a`\_]\_\_`^a`a``S\_¥  
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+HWI-EAS443:3:27:1019:1972#0/1  
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a`¥`aaa][^\_\_\_\_`¥[][[`^a`\_^YR]XXXRSLTITTTX  
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+HWI-EAS443:3:27:301:1489#0/1  
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+HWI-EAS443:3:28:1734:1683#0/1  
Vab`\_\_baa`bab]bb^bbbbbb]b\_]`aa]bbbaaa[`a  
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+HWI-EAS443:3:28:185:1112#0/1  
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+HWI-EAS443:3:28:585:1154#0/1  
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+HWI-EAS443:3:29:1137:1459#0/1  
a`a^`\_]\_\_]\_\_Z]^\_]`^Z^^]]]ZZZ^]¥^]`^XZ^X]B  
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+HWI-EAS443:3:29:185:51#0/1  
¥`W`\_^\_HQY\_Q\_¥W\_\_ba`I`aa`TW^¥Xa`X]\_TZ^XP`  
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aabbabaaabb\_a``¥¥a\_\_a\_a`P`\_¥¥^`X\_ZS^\_Y\_\_  
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+HWI-EAS443:3:2:1587:1935#0/1  
aa`abW`]abaaY`\_]a`¥^[a\_[a]aaa]aNJ\_X^`BB  
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+HWI-EAS443:3:2:1609:1085#0/1  
aa^a`aa`ba[\_]\_\_\_\_]a`^`X\_]VU`]X\_^]]]XXYU  
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+HWI-EAS443:3:30:1384:791#0/1  
aX``^Y^\_Ua`a¥QYZ`[U``Z\_a]\_\_[]]YXSX^`]Z^]  
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+HWI-EAS443:3:30:985:1037#0/1  
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+HWI-EAS443:3:31:1084:1344#0/1  
\_^`¥\_U]a]a¥`^`\_X^¥a¥P\_`aaa\_[W]^]a\_\_a`a¥  
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+HWI-EAS443:3:31:1427:1917#0/1  
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+HWI-EAS443:3:31:577:1915#0/1  
``b\_\_`Za`\_bb^bbb^a`^T\_b[abUba``\_¥]G^aYa^  
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[ \_Y]b^aa`YaaVVUa\_aa^a^\_\_^[aa\_\_a^NST`\_]  
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+HWI-EAS443:3:32:523:1198#0/1  
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+HWI-EAS443:3:32:706:1189#0/1  
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+HWI-EAS443:3:32:71:424#0/1  
a\_Y`\_]a¥NXXaa^^[ ]`a]a\_\_`X[ `X]^\_W\_^¥]]Y]  
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+HWI-EAS443:3:32:79:931#0/1  
a^]Y^]WN[Z`a`T[Z]\_ZUU¥J]`a`WV[ `Za\_¥¥I¥¥`  
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+HWI-EAS443:3:33:1448:1583#0/1  
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+HWI-EAS443:3:33:766:1367#0/1  
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+HWI-EAS443:3:34:1077:582#0/1  
a\_`YZZ]X[Y¥a`^^\_^`[[¥[VS\_VUZU¥^^^][VWUWUZ  
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Q\_ababbbbaaab\_bbbababbabbbbaaabbb`ba`  
@HWI-EAS443:3:35:1183:796#0/1  
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+HWI-EAS443:3:35:1183:796#0/1  
``[T\_aY`UURba\_]`aaV`[XWSL[ ]¥VKZ]S]aYF¥HE

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+HWI-EAS443:3:35:1421:367#0/1  
aa`[\_]Z¥\_\_]^)aZ[`\_\_\_Z]X`[[Z^a]Y^a]Z]\_ZY]  
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AGCAAAACCCAGGGATCATTAAATCAGGCACTCCTCGATTG  
+HWI-EAS443:3:36:1015:1890#0/1  
aab`L\_\_aa`aa```\_aa`aaa`aaa\_\_`¥Y¥`\_`Y\_¥]  
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+HWI-EAS443:3:36:1701:1180#0/1  
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+HWI-EAS443:3:36:48:296#0/1  
a\_]aa`aaUaa^a\_`Ya¥a\_`aaX\_]¥`^`^`^`Y`Y``\_`  
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+HWI-EAS443:3:36:700:692#0/1  
^bb`)]`aba\_ab¥a`baa^`a`aY\_``\_`[`U^a^`aa^  
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+HWI-EAS443:3:36:860:75#0/1  
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GATTGAGGCCGAGTCTTCTGTCAAAGAGAAAGACATGACC  
+HWI-EAS443:3:37:1464:846#0/1  
a`aY]````V¥R\_XQ\_[S[\_LZ[SW\_U[ONH¥`V\_^\_[QK  
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+HWI-EAS443:3:37:1518:609#0/1  
abbaaababaaaa`abaaa`ba`a^a\_\_aXaaaa\_\_aaa¥  
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+HWI-EAS443:3:37:384:1553#0/1  
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+HWI-EAS443:3:38:1058:1157#0/1  
ab`bbbbbb\_ba\_``babaa``aa\_aa\_a`V`^a\_a\_¥`U  
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GGGATCATTAAATCAGGCACTCCTCGATTGCTTCATATAGC  
+HWI-EAS443:3:38:158:1694#0/1  
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@HWI-EAS443:3:38:175:927#0/1  
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+HWI-EAS443:3:38:175:927#0/1  
aaa\_aaaaaaaaa^`aa`^aa[`]aaa`Y\_]\_`a````\_\_`  
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GGCTATATGAAGCAATCGAGGAGTGCCTGATTAATGATCC

+HWI-EAS443:3:38:629:734#0/1  
`[aaaa`\_\_Z\_\_\_`\_^Xa][SYV]^[\_]Z^\_Z[\_]^ZZ  
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GGGCTATATGAAGCAATCGAGGAGTGCCTGATTAATGATC  
+HWI-EAS443:3:38:955:512#0/1  
X\_Q\_¥¥W`X]bRRUY`¥Za\_b\_N¥Ha\_\_X`X^`a`abXKF  
@HWI-EAS443:3:38:981:679#0/1  
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+HWI-EAS443:3:38:981:679#0/1  
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+HWI-EAS443:3:39:269:803#0/1  
[RT¥^`[\_]Z\_\_^V¥^¥^]YPZ^\_TWZ\_W]\_V¥¥Z]]\_]U  
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+HWI-EAS443:3:39:29:1168#0/1  
]aa]O[ ]\_`^` `a]a^^\_V]XT]VW\_]ZUX[¥]]VYU[¥[  
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+HWI-EAS443:3:39:467:247#0/1  
`bbaa^abbb`^abbbbab\_aa\_a]a`aaa\_\_`aY^a\_]¥  
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GGGCTATATGAAGCAATCGAGGAGTGCCTGATTAATGATC  
+HWI-EAS443:3:3:1111:331#0/1  
abb`a]aa]\_]`Z`aaaa]aa]aYaPV]`\_\_` ``]\_^]Q  
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+HWI-EAS443:3:3:286:563#0/1  
ab`aaaaaaaa`a`\_^a^a`^\_X^^]a]\_\_\_\_]^^]]W  
@HWI-EAS443:3:3:665:1913#0/1  
GACGCATATAGACTGTTGAATACAGATTTTGCCAGTAAGG  
+HWI-EAS443:3:3:665:1913#0/1  
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+HWI-EAS443:3:3:723:1030#0/1  
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+HWI-EAS443:3:3:930:216#0/1  
O\_b\_YVX` `¥¥¥[abbaa¥¥\_`\_bXPXb`aab`b]]a]KQ



+HWI-EAS443:3:44:106:1630#0/1  
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+HWI-EAS443:3:44:674:1000#0/1  
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+HWI-EAS443:3:45:1765:211#0/1  
aaa`\_`aaaaa]a`aa`a^```a\_aa```]`Y`\_``^`^`\_  
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a`[¥`\_`aaa^^`\_\_\_`a`^`^`\_`^`\_`Z`\_]Y¥^[\_[[YZW  
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+HWI-EAS443:3:45:868:1694#0/1  
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+HWI-EAS443:3:46:317:919#0/1  
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+HWI-EAS443:3:46:992:497#0/1  
aa`aaa`aa`\_a\_aa`^a^`a^`Y[\_V^a^`\_`^`\_`^XW[  
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+HWI-EAS443:3:47:1134:729#0/1  
aaaaaaaa`\_aa^\_a`aa\_]`^`^W`^¥`\_XY]^^Z\_[^]  
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+HWI-EAS443:3:47:164:1701#0/1  
a]\_Uaa`\_`aa\_¥^`\_X`]`\_`\_`\_`\_`^`a][`^`\_a^`\_Y  
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+HWI-EAS443:3:47:484:1049#0/1  
`¥\_]b`[P^`¥`\_ab\_Z`\_ab`[XRRYUWW¥^[SUXV[`\_RV  
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a``aa`\_a`aa`aY\_\_\_\_\_^X^^YX\_XY]XY]]V]RPTY



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aVb\_]]]]\_`Z][Z¥^^`\_Y¥`\_\_`YW¥`^¥][U[^]^Z  
@HWI-EAS443:3:48:1778:1049#0/1  
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+HWI-EAS443:3:48:1778:1049#0/1  
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+HWI-EAS443:3:48:541:1353#0/1  
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+HWI-EAS443:3:49:1519:1229#0/1  
T`a`Za`XZa`^¥`¥¥UZ\_P`ZZ\_Y^X]ZVQZa]aY]a`  
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+HWI-EAS443:3:49:811:1019#0/1  
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+HWI-EAS443:3:49:858:1252#0/1  
`\_X`a`a`Ybaa`[\_\_\_`a`^XaV``YY¥VR]\_Y]^VV^U  
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+HWI-EAS443:3:4:975:536#0/1  
abaab\_b\_`bbaaY\_`abaaaaaaa`aaa¥a]b\_`\_\_\_B  
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AGGACCTTACTGGCAAATCTGTATTCAACAGTCTATATG  
+HWI-EAS443:3:50:1455:1793#0/1  
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+HWI-EAS443:3:50:399:438#0/1  
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@HWI-EAS443:3:50:424:1152#0/1  
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+HWI-EAS443:3:50:424:1152#0/1  
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^\_bb]bbaa]\_a^`Y\_ba`aab\_b```]a¥\_aaaaaaaZ  
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+HWI-EAS443:3:51:1185:347#0/1  
a\_aa]^U[a\_``U^[\_ba\_`^\_[]`]]]\_aT`Za\_a`][U  
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\_`T¥\_QY¥^^`\_XaWa^^`Y\_RG^YQ¥\_QVU`ZFFRTLW  
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abaa\_aab¥\_\_aaaa`aa[`^¥`Z`\_^a]V[\_Z]\_a^\_]\_  
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+HWI-EAS443:3:51:57:1144#0/1  
\_\_NS`Za\_aSab\_baTa\_\_^a¥a`\_`aa]\_Za`\_aaa\_]`  
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GAAGCAATCGAGGAGTGCCTGATTAATGATCCCTGGGTTT  
+HWI-EAS443:3:51:626:1255#0/1  
`a\_¥¥`\_a]\_````a\_\_a]aa^`]]``a`a^`\_`\_S][  
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+HWI-EAS443:3:53:161:1550#0/1  
¥\_^baabaa]`¥U¥\_\_a\_X[\_¥a\_a^[IZWXXHEKUV¥U  
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GAGCATGATTGAGGCCGAGTCTTCTGTCAAAGAGAAAGAC  
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+HWI-EAS443:3:53:671:1099#0/1  
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+HWI-EAS443:3:53:841:615#0/1  
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+HWI-EAS443:3:55:929:1143#0/1  
a`[[]aba]I]Z`U`ZL¥`\_[[][\_a]\_\_`aY¥RXTaaW)`  
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+HWI-EAS443:3:56:105:913#0/1  
]W\_\_\_^`WX\_a^a`a`)]```\_a`][\_a]^`[U¥`\_RV\_  
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+HWI-EAS443:3:56:1679:1619#0/1  
``a\_0\_¥`]¥¥\_]Z^X^baa[a`a]T]]ZU]^]^a^]]  
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GGCTATATGAAGCAATCGAGGAGTGCCTGATTAATGATCC  
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+HWI-EAS443:3:56:932:1190#0/1  
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+HWI-EAS443:3:57:180:497#0/1  
aa\_aVH]]aabaa\_a]^^`aaUa\_`a\_\_```]Y`¥aa\_\_\_\_  
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``^`W\_\_\_Y`a]a`aa\_W]\_\_Z[^]W\_]`[¥ZZ[[^¥Z  
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+HWI-EAS443:3:59:74:1391#0/1  
ab¥]^b`b`\_]W]]`a`Z]]RWXXa`W`W`PYYR\_YYRTU  
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a\_\_aa`aaZaaWX^R]`aZZU\_\_Q\_\_WWTQQZLLYMWV]W  
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+HWI-EAS443:3:60:1732:975#0/1  
\_W¥^^`\_`a^W^X]RYa^]\_^Za\_VW]]¥\_TU[X\_\_]WZ

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`bba¥`bbbbbbabbab\_````a^`aaa`a`aaa\_``  
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`X]\_`Y`aaa]`¥X\_a`a`¥a^Z`M]¥^^^Y^^\_^[[Z[]  
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a\_a\_ba^^^\_XX]\_^]¥[XW^R]W]\_W]^TMMZRWRZXX  
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GAAGCAATCGAGGAGTGCCTGATTAATGATCCCTGGGTTT  
+HWI-EAS443:3:61:701:249#0/1  
a`aa\_aa`^b]\_`X`^aY]\_aZ¥^`^^^]]XYX]^\_`ZZ^  
@HWI-EAS443:3:61:763:1283#0/1  
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\_Yabbaabbb]`abaabbabbaaab]]a`aa][\_\_a\_\_  
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+HWI-EAS443:3:62:1194:678#0/1  
aa\_VX^\_U¥`a`]U^^a`ZozRL\_UZOL¥aV¥]XV]SV]]  
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+HWI-EAS443:3:62:1474:1035#0/1  
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a`aaabb\_aaaaa`aaaa\_¥`¥\_\_\_aa\_\_a\_]`^^^  
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+HWI-EAS443:3:63:1145:237#0/1  
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ab]b^]\_]a`\_`¥^aab`aa\_\_Uaa`a^\_`\_`\_`^\_a  
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aaa^]]\_]a`¥UU^aQ¥Y\_b\_]\_\_Z[\_]a]\_NG]`¥V\_  
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+HWI-EAS443:3:64:1243:88#0/1  
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+HWI-EAS443:3:64:55:1797#0/1  
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+HWI-EAS443:3:65:1234:558#0/1  
a]¥¥[¥¥`[]]``¥^`^]V^`a¥`]``^WSY¥]`[¥ZZ  
@HWI-EAS443:3:65:1502:2041#0/1  
CAGGGATCATTAAATCAGGCACTCCTCGATTGCTTCATATA  
+HWI-EAS443:3:65:1502:2041#0/1  
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+HWI-EAS443:3:65:955:275#0/1  
abaa`aaa\_``a]aaa¥Ya\_\_`\_Y\_\_\_]¥]\_]XM^T\_¥^  
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GGGCTATATGAAGCAATCGAGGAGTGCCTGATTAATGATC  
+HWI-EAS443:3:66:1203:1830#0/1  
¥``aT`¥a^`¥\_`^`b^`LR¥W\_]ZZYM\_aSaQa]aa`]R  
@HWI-EAS443:3:66:1220:1417#0/1  
AGGGATCATTAAATCAGGCACTCCTCGATTGCTTCATATAG  
+HWI-EAS443:3:66:1220:1417#0/1  
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+HWI-EAS443:3:66:1366:30#0/1  
a]]^]¥]a\_XV¥XZPXUWR[`SYOUMVZRTRTTZ\_VUSJ  
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+HWI-EAS443:3:66:13:1695#0/1  
SXT\_`^````a\_\_\_Z`aWa`aWba\_U\_\_\_R^Va]WT]¥[R  
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+HWI-EAS443:3:66:150:771#0/1  
aaab`babaaaaa\_\_aaaaZaa\_aXaa\_aa`a\_\_``\_^]]  
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+HWI-EAS443:3:66:1637:239#0/1  
`aaaababaa`aba^a^baa^a`a¥aa`aa\_aa]`a`U`]  
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+HWI-EAS443:3:66:397:498#0/1  
`\_[]]¥U\_Q]a[V¥\_]WV`a]Z`U\_`¥\_TZ[]]]`\_X^U`  
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GGGCTATATGAAGCAATCGAGGAGTGCCTGATTAATGATC  
+HWI-EAS443:3:67:1157:2044#0/1  
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+HWI-EAS443:3:67:1518:971#0/1  
U¥aQUW\_\_bTT¥aaaab^b]YbJ`baaba¥Za\_Waaa^^V  
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+HWI-EAS443:3:67:1522:452#0/1  
V\_a`abbbb¥a`abbab\_b`X^baab¥babbaZ]`babQ  
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+HWI-EAS443:3:67:290:681#0/1  
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+HWI-EAS443:3:67:578:1022#0/1  
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+HWI-EAS443:3:68:1113:1537#0/1  
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+HWI-EAS443:3:68:209:752#0/1  
abbabbabaaababbaa``aaaa`aaaa`aaaa\_\_a\_``\_  
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+HWI-EAS443:3:69:1143:477#0/1  
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@HWI-EAS443:3:69:1230:463#0/1  
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+HWI-EAS443:3:69:1230:463#0/1  
`¥Ua[bbaa¥`aa¥\_bN^[VXaZQU[ah`]\_\_aa`aZaYJ  
@HWI-EAS443:3:69:1726:1859#0/1  
GGGCTATATGAAGCAATCGAGGAGTGCCTGATTAATGATC  
+HWI-EAS443:3:69:1726:1859#0/1  
``^`b``abb^`abba\_]W\_aa¥``baa\_^aa^]aaa\_  
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+HWI-EAS443:3:69:47:1588#0/1  
aaa\_baaaaaaaa]`aa``\_[Xa\_a]^``^a`^^^\_]X]  
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+HWI-EAS443:3:6:1170:1935#0/1  
[``\_a¥aaa[``^a`aaaa[\_b¥aa\_``\_Z`]¥[a``\_\_  
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+HWI-EAS443:3:6:1292:743#0/1  
aaa^]``abba\_``]aabaa\_a`aaY]\_aa`a\_aa\_a\_a^  
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+HWI-EAS443:3:6:220:312#0/1  
aba^RW]^a`a]`aa\_`\_¥X¥`^]\_YYR^\_T\_\_\_\_[]\_[B  
@HWI-EAS443:3:6:391:247#0/1  
CTTTCTCTTTGACAGAAGACTCGGCCTCAATCATGCTCTC  
+HWI-EAS443:3:6:391:247#0/1  
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+HWI-EAS443:3:70:116:1533#0/1  
ab`a\_ZZa]QT```aYX^a[\_`¥a`R[\_WYa`\_^PX][Z  
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a`]]]\_\_\_\_`aa\_[`a\_[\_`\_\_abY``\_UYZR`XO\_X^X  
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\_`QKW`a`a`ZZ`^a```bbbab`^a\_b`aa`bab[¥^^  
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a`\_[aZ[aaaaa\_S`aa[]`\_`\_`a`[\_\_\_\_¥¥^V\_\_^\_]¥  
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+HWI-EAS443:3:71:1473:1103#0/1  
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@HWI-EAS443:3:71:1717:1209#0/1  
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+HWI-EAS443:3:71:1717:1209#0/1  
aabaababaaaaaa`a`aa]\_aa\_¥\_`a\_¥[`\_\_Z^  
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+HWI-EAS443:3:71:646:750#0/1  
a]U`]aaa`\_a\_`a]Xa\_aa`^]a`^¥aa^a\_Z\_`ZVZ  
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GGGCTATATGAAGCAATCGAGGAGTGCCTGATTAATGATC  
+HWI-EAS443:3:71:71:734#0/1  
``]Z\_UY^`aW`S^b¥]``]TZNRUZ`^ZPW``aZYS[Y  
@HWI-EAS443:3:72:144:1327#0/1  
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+HWI-EAS443:3:72:144:1327#0/1  
`\_a`^aaab`aaa`aaa]aa`\_YZaa¥a^]U]]IMRY[  
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+HWI-EAS443:3:72:1499:109#0/1  
a\_]PY]\_Xa\_[^`\_W[]Y]VV\_\_^RZO]]¥MUV`]Y^UV  
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+HWI-EAS443:3:72:520:214#0/1  
aaaaabaa`a``baaaaaab\_`aaaa`]^a]aa\_a\_`\_^\_



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+HWI-EAS443:3:72:632:1021#0/1  
Z¥^^`W^baaWaT\_UXbbb]b[bbbb]ba]bb\_\_ba\_P\_¥  
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+HWI-EAS443:3:73:1074:1129#0/1  
aaa^a`[SR¥a[[\_TTU`\_R[\_]Z][`\_NVY]\_\_\_\_[V[\_[  
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+HWI-EAS443:3:73:1111:1755#0/1  
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aaaa\_S]\_aaa`aaa`a\_Zaa[^a^YXP[^[\_aYUPVUXL  
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\_W\_^\_baaaba`]\_^`^^a`¥¥]\_[\_[PYVW[\_WVUXQXV¥  
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^`\_aabba`\_^YRR\_a\_a`^[a`W¥¥Y\_`a\_a]Z\_[`\_a[  
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+HWI-EAS443:3:73:879:74#0/1  
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+HWI-EAS443:3:74:1039:839#0/1  
```]abb[a[b\_^`^`]\_\_aa`aa]aaaZY\_a`aaW[\_]^\_  
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+HWI-EAS443:3:74:1257:456#0/1
¥X]L_¥a_R_S__b_^Xaaabaa`aZ`^J[aY]a¥^a`^_
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+HWI-EAS443:3:74:1455:2015#0/1
aa_N_aa]a_aa^`aa[W_[`_`_`Y[YJVa]^X`]VX^NW
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+HWI-EAS443:3:74:304:1207#0/1
_X_Y]]aY¥^V`aaZTN[]_`__`Y¥Z__]]`__[Z[^
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+HWI-EAS443:3:74:770:617#0/1
_aba` `bababbbbabbbbabab`aabbabbabbabbbba
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+HWI-EAS443:3:75:1035:1751#0/1
aabbb]`aaa`¥ababbbb_bbb_]bab_aababa_` [
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+HWI-EAS443:3:75:1732:1431#0/1
X^`a¥]`b`YZabb`a`baa`a_a`aaaaa_bb_Za^aa
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+HWI-EAS443:3:75:826:254#0/1
]¥]`ab`aVaa^__` `aZ_¥^` `]YY^` `^^`W¥W[¥
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+HWI-EAS443:3:76:1672:1252#0/1
abb`_abb`baa^`^a`aaa_aa[_a_`^`R¥`W^a]_Za
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+HWI-EAS443:3:76:1792:1346#0/1
a^a` `baaaabaa_a_]Z_`¥^aa`^_X^`]]aa`__Y¥`
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+HWI-EAS443:3:76:985:107#0/1
aa^a]^¥¥X^]^`X^WX`_]_ZX^_Z`Z__R^^^^]^X`
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+HWI-EAS443:3:77:1101:982#0/1
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+HWI-EAS443:3:77:1392:2012#0/1
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abaa_b`aaa`a_a`aaa`^_^¥`_^WW]__^^_^Y_Y_
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+HWI-EAS443:3:77:529:2021#0/1
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+HWI-EAS443:3:77:766:441#0/1
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+HWI-EAS443:3:77:900:1036#0/1
aa`]^Z_a_XZ_V____TZ][QO`¥a_XW]_Y¥Z[Z^_]
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+HWI-EAS443:3:78:1078:1187#0/1
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][`_bba`aaba`abbabbaaaa`a_aa`ba`aa]_a`_
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aa`[^a¥a`aaba`_a`_]_a_a`____Z`_]`Z`¥^Z
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+HWI-EAS443:3:79:406:893#0/1
ZZ]_]¥R_aV_RXZXS¥_¥`¥`_¥^X^^`Y^¥TU]Z`_]
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CTTTCTCTTTGACAGAAGACTCGGCCTCAATCATGCTCTC
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CTCTTTGACAGAAGACTCGGCCTCAATCATGCTCTCAATC
+HWI-EAS443:3:81:1273:1567#0/1
aa`aaa¥RWaa¥HKX_____`¥Y[Z_[QXFQVVVYV^]]U
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+HWI-EAS443:3:81:1576:1305#0/1
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+HWI-EAS443:3:81:322:307#0/1
_`a^a__aa`_`a^`^`^]XZ_Z¥_^`]`_^^_X_^]S^W
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+HWI-EAS443:3:82:1323:465#0/1
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+HWI-EAS443:3:82:186:841#0/1
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a_[X]^bbab¥]b`]¥`^]a]bZ^U[`¥`_`_IYa]Ya`a
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^^_^_]X_ZZSa[^_]XX_a[W_Z[0]XaQO^UZ`UU
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@HWI-EAS443:3:84:1573:758#0/1
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+HWI-EAS443:3:84:1573:758#0/1
[bba]a`a`a`_`babaabbbbba`_]ba`a^^]bb`^W_]`
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GGGCTATATGAAGCAATCGAGGAGTGCCTGATTAATGATC
+HWI-EAS443:3:84:343:169#0/1
aaaaabaa`aaaa`aaaa`a`_`Z`_`_`_]`^`_]G[]`
@HWI-EAS443:3:85:169:1892#0/1
GGGCTATATGAAGCAATCGAGGAGTGCCTGATTAATGATC
+HWI-EAS443:3:85:169:1892#0/1
ab^aaaa`^aU_a[V_a`_`Ua]PTVGa_a_^^`_`_`a^S[
@HWI-EAS443:3:85:384:847#0/1
ATGTCTTTCTCTTTGACAGAAGACTCGGCCTCAATCATGC
+HWI-EAS443:3:85:384:847#0/1
aaa_aaaa]aa`a`a`a`_`_`¥^^a]`[]`[IWa`^`_`]]`

@HWI-EAS443:3:85:856:333#0/1
GGGCTATATGAAGCAATCGAGGAGTGCCTGATTAATGATC
+HWI-EAS443:3:85:856:333#0/1
`bbaaaaaba_aa`a``a^a^^]_^_aa^__a___¥__
@HWI-EAS443:3:86:874:584#0/1
GGGCTATATGAAGCAATCGAGGAGTGCCTGATTAATGATC
+HWI-EAS443:3:86:874:584#0/1
abaabbbabbbab_aaaa`a``a`a`_abaaab[`a_`]
@HWI-EAS443:3:87:1666:1822#0/1
CGAGAAAATTGCTTCTCATTGTTTCAGGCACTTAGGGACAA
+HWI-EAS443:3:87:1666:1822#0/1
_b_baa[aS]baaW_aW`_a[a^aaaa`^aaaaa`^`
@HWI-EAS443:3:87:220:760#0/1
GGGCTATATGAAGCAATCGAGGAGTGCCTGATTAATGATC
+HWI-EAS443:3:87:220:760#0/1
_aa^baaaaaa¥aaaaaa`a```]____aa_a```]_`__^
@HWI-EAS443:3:87:366:1183#0/1
GGCTATATGAAGCAATCGAGGAGTGCCTGATTAATGATCC
+HWI-EAS443:3:87:366:1183#0/1
]`abaab¥baa_a`b_a_babb_F^`b`]Uaababb]]`
@HWI-EAS443:3:87:576:1018#0/1
GCTGAATCGAGAAAATTGCTTCTCATTGTTTCAGGCACTTA
+HWI-EAS443:3:87:576:1018#0/1
U_[ZV_UXaa¥Z¥U`SHXWQ`_]a`^aWW¥T]PM]Z]Q_[
@HWI-EAS443:3:88:1110:1749#0/1
GGCTATATGAAGCAATCGAGGAGTGCCTGATTAATGATCC
+HWI-EAS443:3:88:1110:1749#0/1
S¥ab`[`abb_`b]`_`_a_``]¥RWa_b`aabba_¥`]
@HWI-EAS443:3:88:1228:1197#0/1
GGCTATATGAAGCAATCGAGGAGTGCCTGATTAATGATCC
+HWI-EAS443:3:88:1228:1197#0/1
ab`^ZVV`^USZQN¥OW¥^UTXRGRHZP]¥¥`UXY[VVZ_
@HWI-EAS443:3:88:695:790#0/1
GGCTATATGAAGCAATCGAGGAGTGCCTGATTAATGATCC
+HWI-EAS443:3:88:695:790#0/1
ababbbbabbabbbbaabaaaa`aaaa_`a`aaa`a_`
@HWI-EAS443:3:88:741:854#0/1
GCTGAATCGAGAAAATTGCTTCTCATTGTTTCAGGCACTTA
+HWI-EAS443:3:88:741:854#0/1
abbbbbabbabbbb`aababbab_bbbbabaabb_a`baa
@HWI-EAS443:3:88:82:367#0/1
CTTTCTTTTGACAGAAGACTCGGCCTCAATCATGCTCTC
+HWI-EAS443:3:88:82:367#0/1
ab_aabbaa`aZa`a_]a_aaaa_^]]`[Y]]^^_`]^`^¥
@HWI-EAS443:3:89:1207:656#0/1
TGTCTTTCTTTTGACAGAAGACTCGGCCTCAATCATGCT
+HWI-EAS443:3:89:1207:656#0/1
a``abbb_``aaaa```aaaa`a`a`____^`__^____]S[
@HWI-EAS443:3:89:374:1013#0/1
CTTTCTTTTGACAGAAGACTCGGCCTCAATCATGCTCTC

+HWI-EAS443:3:89:374:1013#0/1
a_]bbabbbaba_¥`bbbbabbba`a`a_baaa`_^`aa`
@HWI-EAS443:3:8:1102:1397#0/1
GGGCTATATGAAGCAATCGAGGAGTGCCTGATTAATGATC
+HWI-EAS443:3:8:1102:1397#0/1
abbaab_]bZ`Ub]`b]`YbbIb]aVZbYZ`aaaa_]`
@HWI-EAS443:3:8:1603:1271#0/1
ATTGAGGCCGAGTCTTCTGTCAAAGAGAAAGACATGACCA
+HWI-EAS443:3:8:1603:1271#0/1
aaba`aa_]`^aTX_[X]a]U_]`^`X`Y`^`^X^ZZ^ZX^
@HWI-EAS443:3:8:1683:441#0/1
GGGCTATATGAAGCAATCGAGGAGTGCCTGATTAATGATC
+HWI-EAS443:3:8:1683:441#0/1
abaaaaaaab```_aaa_a^aa^``[RYaa¥``__[_`__Z
@HWI-EAS443:3:8:741:1246#0/1
ATGAAGCAATCGAGGAGTGCCTGATTAATGATCCCTGGGT
+HWI-EAS443:3:8:741:1246#0/1
`aa`Wa_aaaa`bYXaYaVY```[_````YY[XZ_dWZU
@HWI-EAS443:3:8:794:818#0/1
GGGCTATATGAAGCAATCGAGGAGTGCCTGATTAATGATC
+HWI-EAS443:3:8:794:818#0/1
`abababbbababbaabbbbaabaaaa__ab_aaaaa____
@HWI-EAS443:3:8:834:1649#0/1
GGGCTATATGAAGCAATCGAGGAGTGCCTGATTAATGATC
+HWI-EAS443:3:8:834:1649#0/1
^`a]ba`ab`]bbbbaabaaa_a`_abb`_`a`aa[_`
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GGCTATATGAAGCAATCGAGGAGTGCCTGATTAATGATCC
+HWI-EAS443:3:90:1305:1416#0/1
abababbbba_aaaaba^b`b`baa`aY]ab_bbb`a_aa_Z
@HWI-EAS443:3:90:227:1467#0/1
GCTATATGAAGCAATCGAGGAGTGCCTGATTAATGATCCC
+HWI-EAS443:3:90:227:1467#0/1
aa_aaaaaaa`aa`^a`a`a`_`^V^^Xaa_]`_`¥]^^]^^]]
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+HWI-EAS443:3:90:761:1247#0/1
aab_abbbbaabbaa`ab``[^aaa^a`a`a`¥`_¥[^[_
@HWI-EAS443:3:90:914:1622#0/1
TGTCTTTCTCTTTGACAGAAGACTCGGCCTCAATCATGCT
+HWI-EAS443:3:90:914:1622#0/1
a_LZabba_abbbb_a`Z^X_[¥H¥[IaaY]aUN`[GS^
@HWI-EAS443:3:91:1008:321#0/1
AGCAAAACCCAGGGATCATTAAATCAGGCACTCCTCGATTG
+HWI-EAS443:3:91:1008:321#0/1
_X`]__`_Q]aa^XV^a```RX`a[``Z^_]UZ[WV]U]^
@HWI-EAS443:3:91:1161:752#0/1
AGCAAAACCCAGGGATCATTAAATCAGGCACTCCTCGATTG
+HWI-EAS443:3:91:1161:752#0/1
^^a_XT`_]`¥^bba]]_aaab__`Z[Sab_a`a^`aa_a

@HWI-EAS443:3:92:1327:59#0/1
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+HWI-EAS443:3:92:1327:59#0/1
aYX^[a_[YRPaYYaT_RR[G]_YPPT__OY_QOYRKNO
@HWI-EAS443:3:93:1158:244#0/1
GATTGAGGCCGAGTCTTCTGTCAAAGAGAAAGACATGACC
+HWI-EAS443:3:93:1158:244#0/1
aaaaa``¥[]_a_[`_Y[a__^_^^[XYXY^X¥]¥VWV
@HWI-EAS443:3:93:1618:470#0/1
CTTTCTTTTGACAGAAGACTCGGCCTCAATCATGCTCTC
+HWI-EAS443:3:93:1618:470#0/1
`bbb`babbabaababbab`a`bb[___Ua`^)`_aZ[Z_a
@HWI-EAS443:3:93:1693:411#0/1
CTTTCTTTTGACAGAAGACTCGGCCTCAATCATGCTCTC
+HWI-EAS443:3:93:1693:411#0/1
aab_L]_¥X^^V¥ab`X``_`X_ZSX]P`¥[[[^OMMHWU
@HWI-EAS443:3:93:175:1850#0/1
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+HWI-EAS443:3:93:175:1850#0/1
a__YL[a0_bb_Q00`a`aWK[[b^`_]_[[_`^TL_RY]
@HWI-EAS443:3:93:57:605#0/1
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+HWI-EAS443:3:93:57:605#0/1
aaa_T[¥VX_¥TO_JZ`WQY`T`ZVSSURW_Q_]UPYUTX
@HWI-EAS443:3:94:1122:592#0/1
GGTTGTCCCTAAGTGCCTGAACAATGAGAAGCAATTTTCT
+HWI-EAS443:3:94:1122:592#0/1
aa`b^S_R^ab`_`WSXab^b^a`Ya`a][``a_a`]a``
@HWI-EAS443:3:94:687:1863#0/1
AAGCAATCGAGGAGTGCCTGATTAATGATCCCTGGGTTTT
+HWI-EAS443:3:94:687:1863#0/1
a^VP`W`YHSZaT[I¥¥Q_``]`a^S`]LGLLJZZ`Q¥_[
@HWI-EAS443:3:95:491:1068#0/1
CAGGTTGTCCCTAAGTGCCTGAACAATGAGAAGCAATTTT
+HWI-EAS443:3:95:491:1068#0/1
a]b)`b[Y]a)`aJ_`__aaIaX¥¥aaaY^a_[aHY_Z`
@HWI-EAS443:3:95:612:1856#0/1
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+HWI-EAS443:3:95:612:1856#0/1
ababbbbbbb`abbbbbbb`aaaaaa]aa_aa`a`aaa``^_
@HWI-EAS443:3:95:97:511#0/1
ATATGAAGCAATCGAGGAGTGCCTGATTAATGATCCCTGG
+HWI-EAS443:3:95:97:511#0/1
aabaaa``aaa`a`ba^aXaa_`a^`_`^a`__^^Zaaa
@HWI-EAS443:3:96:1770:346#0/1
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+HWI-EAS443:3:96:1770:346#0/1
ababbb]abaaaaba`aaa^_aa`a`a__]a_a_X]__`a
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+HWI-EAS443:3:96:302:234#0/1
]ba_bba[b]bb]aaa]^^aYUaXaV_a`] `X^`a`_^
@HWI-EAS443:3:96:903:1092#0/1
CCCTAAGTGCCTGAACAATGAGAAGCAATTTTCTCGATTC
+HWI-EAS443:3:96:903:1092#0/1
aTY`Y¥¥Jba]]ZbbKab^a`a`bb`aabaUaV_YabaXb
@HWI-EAS443:3:97:115:1755#0/1
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+HWI-EAS443:3:97:115:1755#0/1
aaaaaa[]a_Y[``a`_^`^]R`^`_^`QZ^Z[ZZVZWU]
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AGACTGTTGAATACAGATTTTGCCAGTAAGTCCTGCACA
+HWI-EAS443:3:97:903:137#0/1
aaY`_^`bb_aaa`aa`aa`W[X^a[``aaX[^`_]_V_
@HWI-EAS443:3:97:917:531#0/1
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+HWI-EAS443:3:97:917:531#0/1
a]Y_]a]``a]_aa_]aa]_`aT`¥X[_[``a^`_]`^_
@HWI-EAS443:3:98:1129:178#0/1
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+HWI-EAS443:3:98:1129:178#0/1
a_ZYaZ¥_a``a`_W``]aZS¥`___W]]QP]X¥¥Y^_Z
@HWI-EAS443:3:98:841:32#0/1
ATGTCTTTCTTTGACAGAAGACTCGGCCTCAATCATGC
+HWI-EAS443:3:98:841:32#0/1
_b_WQa¥]`^[]b¥XU¥ab]]]]]a`aa[_`Z^ZZEDUa`
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+HWI-EAS443:3:99:1033:160#0/1
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@HWI-EAS443:3:99:56:1187#0/1
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+HWI-EAS443:3:99:56:1187#0/1
aY_a`a]_a___`^`_a_a_^¥^_a]X]Z[Q^_]_ZWT]X
@HWI-EAS443:3:9:1258:1528#0/1
GTCTTTCTTTGACAGAAGACTCGGCCTCAATCATGCTC
+HWI-EAS443:3:9:1258:1528#0/1
a]_baa`aabab__aaaa___`V__X^a_^_]Y_^WMYN
@HWI-EAS443:3:9:1504:1239#0/1
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+HWI-EAS443:3:9:1504:1239#0/1
a_[a]_VSLs`QFU_W¥MZZVM[WOR]FJWT¥V]]WSW]S
@HWI-EAS443:3:9:487:862#0/1
GAAAATTGCTTCTCATTGTTTCAGGCACTTAGGGACAACCT
+HWI-EAS443:3:9:487:862#0/1
`Zaa]aa]`^U_X`_`_aaaaQV[_aa_a_R[[a_NY¥_
@HWI-EAS443:3:9:690:156#0/1
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+HWI-EAS443:3:9:690:156#0/1
aaa```a```]^`_^_]ZZ_^ZUWZZZZZX]WZZZWZ

@HWI-EAS443:3:81:895:255#0/1
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+HWI-EAS443:3:81:895:255#0/1
a`_[aa`a]a^ZSMY`a_`¥_`V_]`_RUVU^^ZYK
@HWI-EAS443:3:54:261:450#0/1
GCCCCCAGTTTCGATTTTCGATCTTCCCCATATTCTTT
+HWI-EAS443:3:54:261:450#0/1
abbbbab^_a_bbaaaba^_[aQ]L¥aaab_aa[baa`a`
@HWI-EAS443:3:74:1047:257#0/1
AAAAGCAAAGAATATGGGGAAGATCCGAAAATCGAAACT
+HWI-EAS443:3:74:1047:257#0/1
_¥bb^aabba_abbbabbbbabaa_aaabbbaaa_aa¥a
@HWI-EAS443:3:56:1000:1433#0/1
GCCTCTTTAGTTTCGATTTTCGGATCTTCCCCATATTCTT
+HWI-EAS443:3:56:1000:1433#0/1
a¥_a_baa`^`aa`a)`aa`^`Za)`a[^]^`a_aa]a`
@HWI-EAS443:3:81:495:1742#0/1
CCCCCAGTTTCGATTTTCGGATCTTCCCCATATTCTTTCA
+HWI-EAS443:3:81:495:1742#0/1
[^R_b_b`_ab_P_^`Z_X`RTX`]Z^^`^^^aa^a_`¥`
@HWI-EAS443:3:26:284:543#0/1
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+HWI-EAS443:3:26:284:543#0/1
a`a`baaab`abaaa_ba¥aaaaab`aa]aaa^aa`^^`
@HWI-EAS443:3:7:51:664#0/1
GAAAGAATATGGGGAAGATCCNAAAATCGAAACTAACAAAG
+HWI-EAS443:3:7:51:664#0/1
^]a`^^`abbaaaaaab`a¥YDZabaa¥a`_aaaa_`aaa
@HWI-EAS443:3:91:153:1463#0/1
TTGTTAGTNTCGATTTTCGGATCTTCCCCATATTCTTTCA
+HWI-EAS443:3:91:153:1463#0/1
aaa_`_`_TD¥aaZ^____^XZZZ]^XZZ]^]Z_^Y^^_^^
@HWI-EAS443:3:67:560:356#0/1
AATGAAAGAATATGGGGAAGATCCGAAAATCGAAACTACA
+HWI-EAS443:3:67:560:356#0/1
aa`^a^¥__^a_`a[`^aaa_]Z`¥____`]¥^^_^^_^^
@HWI-EAS443:3:27:540:1560#0/1
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+HWI-EAS443:3:27:540:1560#0/1
U¥_abb`^`^[`¥L[]]b_`__Zaba`abaaaabbaZOWS
@HWI-EAS443:3:28:302:809#0/1
GCTTGCCGACCAAAGTCTCCCACCGAACTTCTCCAGCCTT
+HWI-EAS443:3:28:302:809#0/1
^aaabbbb`aaT_`abab_abbaaa`_aaaaaaaa_a_b_
@HWI-EAS443:3:28:436:785#0/1
AAGAATATGGGGAAGATCCGAAAATCGAAACTAACAAAGTT
+HWI-EAS443:3:28:436:785#0/1
TZ_Y^a^^aa_`^^`aaa`^aba`b_W_`a`^^`^X`
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+HWI-EAS443:3:34:1477:741#0/1
X¥` `]` `¥Zaba]aZV^a^_Y¥aU¥Ta^a¥OZM[WQSYWB
@HWI-EAS443:3:3:1432:488#0/1
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+HWI-EAS443:3:3:1432:488#0/1
aab`aaababaaaaabaa`^a`abaa_b^^`^`_`]a_a]
@HWI-EAS443:3:51:113:1803#0/1
TGAAAGAATATGGGAAGATCCGAAAATCGAACTAACAA
+HWI-EAS443:3:51:113:1803#0/1
ab^X^_a_]¥aaab`ba`YMYaabaZ[][^`Z¥^_a¥
@HWI-EAS443:3:59:1620:628#0/1
AAAGAATATGGGAAGATCCGAAAATCGAACTAACAAGT
+HWI-EAS443:3:59:1620:628#0/1
ababbaa_a^_ab¥_baZTY_^ab_a^b]]aYa[_TU]]X
@HWI-EAS443:3:80:325:64#0/1
AAGAATATGGGAAGATCCGAAAATCGAACTAACAAGTT
+HWI-EAS443:3:80:325:64#0/1
¥_ab_^__bbabaab`]Q^aa^Y_a[`] `Z_^aa[V^_^
@HWI-EAS443:3:98:1516:1666#0/1
GGCAATGAAAGAATATGGGAAGATCCGAAAATCGAACT
+HWI-EAS443:3:98:1516:1666#0/1
abQ^]__HU0_PT^X¥aaZY]Wa`XFL__`a_aHb`Z^[a
@HWI-EAS443:3:22:1197:726#0/1
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+HWI-EAS443:3:22:1197:726#0/1
aaaabaaa__a_aaaaa_aa^^a]S`aW_`YY^__Z_^Z
@HWI-EAS443:3:33:1341:1261#0/1
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+HWI-EAS443:3:33:1341:1261#0/1
a^b`__bb_aaaRaaSaR^¥¥aXJWUOSYURWFXYBBBBB
@HWI-EAS443:3:81:1461:420#0/1
GCTTCGTCTCTTTCCGACTGACGAAAGGAATCCCATAGAC
+HWI-EAS443:3:81:1461:420#0/1
YaWQTTH^T`]^XVPYQMVT¥Z_YM¥YWY[XSIZZV^]VN
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GATGGATTCCGAGCCGAACGGCTGCATTGAGGGCAAGGTTT
+HWI-EAS443:3:92:1603:987#0/1
a_`¥b^a^[_`^[]a`^a`^_[FXYNFKKNV^UZUGV[¥
@HWI-EAS443:3:100:954:751#0/1
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+HWI-EAS443:3:100:954:751#0/1
abS¥Xa^HaZP`b^`_[] []aaU[_a_SNHaYFH^[] [aB
@HWI-EAS443:3:25:1443:167#0/1
CTCTCCGATTGGCCATGTTCCCGATTTGTTTTCAAAGAAT
+HWI-EAS443:3:25:1443:167#0/1
abbbbbbbbbbbbbbaaaabaa`^`abba_ba_V^` `aaa_
@HWI-EAS443:3:33:1724:633#0/1
ATCAGGCACTCCTCGATTGCTTCATATAGCCCTCGAAGAT
+HWI-EAS443:3:33:1724:633#0/1
^¥`bb]baab_aaab_W_a_ZZ[_`a__aU_¥GLERXSVP

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+HWI-EAS443:3:36:1028:180#0/1
aU`bb_aaaa_]_[__`__¥Z_XP¥ZVDIT^UQRNPQSTR
@HWI-EAS443:3:51:215:188#0/1
ATGGATTGAGCCGAACGGCTGCATTGAGGGGAAGCTTTC
+HWI-EAS443:3:51:215:188#0/1
[_a_aabaaaa[X]``_a^JY`V¥YUEPSX¥GO]VLO^QQ
@HWI-EAS443:3:52:528:681#0/1
GATGGATTGAGCCGAACGGCTGCATTGAGGGCTAGCTTT
+HWI-EAS443:3:52:528:681#0/1
a[_bb^a_X[_`_a`XQ`T¥¥VTVV^PURRNL¥QFWWTQNU
@HWI-EAS443:3:73:177:1169#0/1
CTCCGATTGGCCATGTTTCCGATTTTTTTTTCAAAGAATTC
+HWI-EAS443:3:73:177:1169#0/1
a`b`]¥a_a¥aZa]]U^¥[_`a¥STYGMP[[[¥X`WYXNP
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+HWI-EAS443:3:80:23:669#0/1
abaa_WX0[aa`V^[] [Y^YZTZXXTY][UFXSISHYXV
@HWI-EAS443:3:88:278:1302#0/1
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+HWI-EAS443:3:88:278:1302#0/1
aaabZG¥a_a^`_`[_`aa`^W`a]W]^`a_UW`a]¥` `a
@HWI-EAS443:3:31:1007:1299#0/1
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+HWI-EAS443:3:31:1007:1299#0/1
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@HWI-EAS443:3:35:1012:2031#0/1
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+HWI-EAS443:3:35:1012:2031#0/1
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@HWI-EAS443:3:3:42:517#0/1
TTCGCCTCTTTCGACTGACGAAAGGAATCCCATAGAGCT
+HWI-EAS443:3:3:42:517#0/1
_aa_a`¥`aa`_P¥]^`a¥`U^_[X¥__[[U^^¥`^_U¥
@HWI-EAS443:3:98:1006:2024#0/1
GACTCTCCGATTGGCCATGTTTCCGATTTGTTTTCAAGAA
+HWI-EAS443:3:98:1006:2024#0/1
[TZa¥`U^`b`b`X__aTbaa[aJ`a`bX^_]X]b]ba
@HWI-EAS443:3:17:1790:879#0/1
ATGGATTGAGCCGAACGGCTGCATTGANGGCAAGCTTTC
+HWI-EAS443:3:17:1790:879#0/1
aaaa`_a__a`Z[a_¥¥`^UW_VVTYSRDS_QXWNTNZWL
@HWI-EAS443:3:39:126:1790#0/1
AGAAGGAAGACGGAAAACAAACCTGTATGGGNTCATTATA
+HWI-EAS443:3:39:126:1790#0/1
^[aa]`_aa`a`¥^aaa`a`____`__¥PDXa__^[_`^
@HWI-EAS443:3:44:1754:1713#0/1
TCTCCGATTGGCCATGTTTCCGATTNGTTTTCAAAGAATT

+HWI-EAS443:3:44:1754:1713#0/1
^OT]¥_RWYa_`___`R[¥^[URIMVDW^[ZOKXXYVV¥QR
@HWI-EAS443:3:92:680:1470#0/1
CTTNTATAATGAACCCATACAGGTTTGTTCCTCCGTTCC
+HWI-EAS443:3:92:680:1470#0/1
Y]YD]b`ZaabbabaabbbabbZa_abbbWba]bb`a^
@HWI-EAS443:3:75:497:39#0/1
CTCCGATTGGCCATGTTTCCGATTTGTTTTCAAAGAATTA
+HWI-EAS443:3:75:497:39#0/1
aaaaba`[aa¥XYZ[X`¥OZ]¥X_`]T_`_G¥^ZaYS]^N
@HWI-EAS443:3:100:845:277#0/1
CTCCGATTGGCCATGTTTCCGATTTGTTTTCAAAGAATTC
+HWI-EAS443:3:100:845:277#0/1
a_a`aa`a^a`[_`aYa`]^M^aaZX___^]^`¥0¥BB
@HWI-EAS443:3:10:24:529#0/1
GATGGATTGAGCCGAACGGCTGCATTGAGGGCAAGCTTT
+HWI-EAS443:3:10:24:529#0/1
a_^XYYS[S[^`_`[Z¥VPP^BBBBBBBBBBBBBBBBBB
@HWI-EAS443:3:13:1659:251#0/1
TGACTCTCCGATTGGCCATGTTTCCGATTTGTTTTCAAAG
+HWI-EAS443:3:13:1659:251#0/1
`bb_a_a^a`_^`_^RY¥Z^Y_aWVRV]_]VZ^[SUZZB
@HWI-EAS443:3:14:831:940#0/1
CTCTCCGATTGGCCATGTTTCCGATTTGTTTTCAAAGAAT
+HWI-EAS443:3:14:831:940#0/1
L_`bb`[_`¥b¥^¥bbZS`^Wa^Taa_b]`_a]a]`aT_a
@HWI-EAS443:3:16:1255:1928#0/1
GATGGATTGAGCCGAACGGCTGCATTGAGGGCAAGCTTT
+HWI-EAS443:3:16:1255:1928#0/1
__abbaa`_`[_`a`aa`b^`_a[a_aPRP¥_aaU[_YSVa]
@HWI-EAS443:3:17:1775:1231#0/1
CTCCGATTGGCCATGTTTCCGATTTGTTTTCAAAGAATTC
+HWI-EAS443:3:17:1775:1231#0/1
a`_abaaba`^`^`aIa^XU_X][_a__a]Z`_]_^U^[W
@HWI-EAS443:3:17:754:1139#0/1
CTCCGATTGGCCATGTTTCCGATTTGTTTTCAAAGAATTC
+HWI-EAS443:3:17:754:1139#0/1
aa```]a]aXa`^¥Y[aa^]UV]_`¥Z_]^[^`a`^ZRJ
@HWI-EAS443:3:19:377:719#0/1
CTCCGATTGGCCATGTTTCCGATTTGTTTTCAAAGAATTC
+HWI-EAS443:3:19:377:719#0/1
a_aa`Y`a_abaa`a`aaaa¥NZaa`N]a_ZYaaR_Z^`_
@HWI-EAS443:3:19:500:620#0/1
CTCTCCGATTGGCCATGTTTCCGATTTGTTTTCAAAGAAT
+HWI-EAS443:3:19:500:620#0/1
TWababbaZ]ba`aaaa`aaaaWY_aXX¥aaaaaa]¥`a
@HWI-EAS443:3:19:964:1739#0/1
CTCTCCGATTGGCCATGTTTCCGATTTGTTTTCAAAGAAT
+HWI-EAS443:3:19:964:1739#0/1
abababbbbbbbaaaaa`^ab`aaaaaaa_aaa`aaa`````

@HWI-EAS443:3:20:1161:551#0/1
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+HWI-EAS443:3:20:1161:551#0/1
abbb`b`baaabX[]a`Xaa^a`__aaa`a`S]`aaaY^
@HWI-EAS443:3:22:356:1265#0/1
CTCTCCGATTGGCCATGTTTCCGATTTGTTTTCAAAGAAT
+HWI-EAS443:3:22:356:1265#0/1
aaa`a[_^]ZU__]^_Xa`_``]_``_]_`_T__^X^^^
@HWI-EAS443:3:23:1357:417#0/1
CTCTCCGATTGGCCATGTTTCCGATTTGTTTTCAAAGAAT
+HWI-EAS443:3:23:1357:417#0/1
ab^baabbaba[aa`¥`ba[`a`[aaaVaa_[]aba[_`
@HWI-EAS443:3:24:1584:1638#0/1
GGAAGACGAAAACAAACCTGTATGGGTTTCATTATAAAAG
+HWI-EAS443:3:24:1584:1638#0/1
_`^`[^W`aaa__Q[a`Y]aaR^]a[[J^[_a_aZN[]_`^
@HWI-EAS443:3:25:141:14#0/1
CTCTCCGATTGGCCATGTTTCCGATTTGTTTTCAAAGAAT
+HWI-EAS443:3:25:141:14#0/1
`bb`¥0Zbbabaa^aa_Saba`a``]_YG_aa¥QYHXWJS
@HWI-EAS443:3:25:142:2025#0/1
TTTATAATGAACCCATACAGGTTTGTTCCTTCCTT
+HWI-EAS443:3:25:142:2025#0/1
`_a[_aa^^LWaaaZ`_a^_NW_aX[]_a¥^_Ya]S[
@HWI-EAS443:3:25:1653:1462#0/1
TAATGAACCCATACAGGTTTGTTCCTTCCTTCTTT
+HWI-EAS443:3:25:1653:1462#0/1
a`abbab`a`aaa`aaa^`a]`a_]_]`^X]_`^Z____
@HWI-EAS443:3:25:795:85#0/1
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+HWI-EAS443:3:25:795:85#0/1
abbbbbbbbbbb`a`bba^`Z`bb__`aaXZaa_`^`aa¥
@HWI-EAS443:3:26:652:337#0/1
GGGTGACTCTCCGATTGGCCATGTTTCCGATTTGTTTTCA
+HWI-EAS443:3:26:652:337#0/1
aa_Z_aa`a_a`a^X_a_]WTQQO^`¥_]Z]^XLT_YLU
@HWI-EAS443:3:26:84:149#0/1
ATGGATTGAGCCGAACGGCTGCATTGAGGGCAAGCTTTC
+HWI-EAS443:3:26:84:149#0/1
aaaaaaaa`[_aa_```___^]V[P[NZVSZVJXRSZ[XB
@HWI-EAS443:3:27:1057:976#0/1
GTCTATGGGATTCTTTCGTCAGTCCGAAAGAGGCGAAGA
+HWI-EAS443:3:27:1057:976#0/1
a`aa`b`Y`aaaa_a`a`a`_`a]`_``````¥]^_____
@HWI-EAS443:3:27:1146:264#0/1
GATGGATTGAGCCGAACGGCTGCATTGAGGGCAAGCTTT
+HWI-EAS443:3:27:1146:264#0/1
]bbba``aaaa`__a`^YbaZ]RFNS[`¥¥`_WW_]QZ¥^
@HWI-EAS443:3:2:1118:351#0/1
CTCCGATTGGCCATGTTTCCGATTTGTTTTCAAAGAATTC

+HWI-EAS443:3:2:1118:351#0/1
aW`b^ZbT`OSS[a_^a_Sa_H_Y_aG¥_ZP^Qa`UV¥^S
@HWI-EAS443:3:30:925:1379#0/1
GGAAGACGGAAAACAAACCTGTATGGGTTTCATTATAAAAAG
+HWI-EAS443:3:30:925:1379#0/1
^`Y^aa`babaababbbab^aaaabaa]aabaaaa`^^`
@HWI-EAS443:3:31:1214:902#0/1
CTCTCCGATTGGCCATGTTTCCGATTTGTTTTCAAAGAAT
+HWI-EAS443:3:31:1214:902#0/1
abbbb`b_bbb_bbbb¥]bb`ba`ba`bba^abaaaba
@HWI-EAS443:3:31:549:501#0/1
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+HWI-EAS443:3:31:549:501#0/1
a`b_abbaba]a]S_[`_`a]a`S[aa`_aaaY¥^`_`__
@HWI-EAS443:3:32:342:1512#0/1
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+HWI-EAS443:3:32:342:1512#0/1
aU`V^ZSW`Z_YUWXLN_¥^_YHN__¥ZV[VTTW[WU¥B
@HWI-EAS443:3:34:271:1263#0/1
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+HWI-EAS443:3:34:271:1263#0/1
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@HWI-EAS443:3:34:473:890#0/1
CTCCGATTGGCCATGTTTCCGATTTGTTTTCAAAGAATTC
+HWI-EAS443:3:34:473:890#0/1
aabaa`aa_aa`_a¥aa`_]W]a__V^_`^[_UV^]YY
@HWI-EAS443:3:36:1071:1105#0/1
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+HWI-EAS443:3:36:1071:1105#0/1
aba]aba]aababa_]^_aa`a`^aaa^a^^]]]a]^_
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+HWI-EAS443:3:36:1682:1514#0/1
aaa`^YQVR¥`X[[_U[UOUZWW[_a]^a_ZUVXXJTUTS
@HWI-EAS443:3:36:799:1468#0/1
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+HWI-EAS443:3:36:799:1468#0/1
a^a`¥UZa`a`_]_]¥aTXZ^VX`]YP[_`^[_YPIYZ^__
@HWI-EAS443:3:37:1448:1175#0/1
TGACTCTCCGATTGGCCATGTTTCCGATTTGTTTTCAAAG
+HWI-EAS443:3:37:1448:1175#0/1
aba^a¥a^aa¥]a`_Z¥_[Waa__YZXaZ]¥]`_Q`YR
@HWI-EAS443:3:38:1746:455#0/1
AAGAAGGAAGACGGAAAACAAACCTGTATGGGTTTCATTAT
+HWI-EAS443:3:38:1746:455#0/1
aabaabb`aba_a`aaaaa`a__`a`aa_VQV_Y]a__]
@HWI-EAS443:3:39:992:65#0/1
CTTTTATAATGAACCCATACAGGTTTGTTCCTTCC
+HWI-EAS443:3:39:992:65#0/1
¥^baa`Z`a_aaaV_a[YQ`b]^Y`a`YMG^_Y^a[F

@HWI-EAS443:3:3:575:1623#0/1
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+HWI-EAS443:3:3:575:1623#0/1
aa¥aa]VaUaa`_QHNP[aUWaa_YGRWSG]NW_W]QNZB
@HWI-EAS443:3:43:966:444#0/1
AGAAGGAAGACGGAAAACAAACCTGTATGGGTTTCATTATA
+HWI-EAS443:3:43:966:444#0/1
¥]V¥¥__¥¥W]^Z¥`XaU¥a]`_bbY¥_a_`Z`_`baaZ[
@HWI-EAS443:3:45:1019:483#0/1
TGACTCTCCGATTGGCCATGTTTCCGATTTGTTTTCAAAG
+HWI-EAS443:3:45:1019:483#0/1
abaaaaaaaa`aaaa__`_]¥adW_`X`aa^aa[DX__[
@HWI-EAS443:3:47:1277:727#0/1
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+HWI-EAS443:3:47:1277:727#0/1
ababbabbbab_abbabbY^`^abb__ab_P]aaaa_ab^
@HWI-EAS443:3:47:1316:1758#0/1
TGACTCTCCGATTGGCCATGTTTCCGATTTGTTTTCAAAG
+HWI-EAS443:3:47:1316:1758#0/1
a^Y`^ZWZ```]]PX]SMYVHX_NU]TX[SZZRX¥ZZ
@HWI-EAS443:3:47:1421:1970#0/1
AAAGAAGGAAGACGGAAAACAAACCTGTATGGGTTTCATTA
+HWI-EAS443:3:47:1421:1970#0/1
abaaaaaaaa_aaa_a[aaa`]_^`_V``]_¥^^¥Y^_Y_Y]
@HWI-EAS443:3:47:181:1679#0/1
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+HWI-EAS443:3:47:181:1679#0/1
^ab_Xbbb`baa_[^SbbUYRQabbX_bb]G^X^`^_aUW
@HWI-EAS443:3:49:1350:294#0/1
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+HWI-EAS443:3:49:1350:294#0/1
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@HWI-EAS443:3:49:1605:1158#0/1
CTCTCCGATTGGCCATGTTTCCGATTTGTTTTCAAAGAAT
+HWI-EAS443:3:49:1605:1158#0/1
a`ba`bbabbbbaa`a^abaW]`]abbaaabaa]]a_W]a
@HWI-EAS443:3:49:173:751#0/1
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+HWI-EAS443:3:49:173:751#0/1
abbbbabaabaaabbabbaa_0_bab`abba`baaaaaba
@HWI-EAS443:3:50:367:1614#0/1
GATGGATTCCGACCGAACGGCTGCATTGAGGGCAAGCTTT
+HWI-EAS443:3:50:367:1614#0/1
a¥aabaaaR^Xa^T``]¥¥WZW^NVOYX[Z¥TMU^BBBBB
@HWI-EAS443:3:51:1614:899#0/1
CTCTCCGATTGGCCATGTTTCCGATTTGTTTTCAAAGAAT
+HWI-EAS443:3:51:1614:899#0/1
`abbabbbb`b`_aa]bbbV`aabbaZ^abb`b`_abb
@HWI-EAS443:3:52:90:1254#0/1
TATAATGAACCCATACAGGTTTGTTCCTCCTCCTCCT

+HWI-EAS443:3:52:90:1254#0/1
aaabaaaa^aaaa^_a]Uaa` `aaa_a[Y^a`_` `¥Y_
@HWI-EAS443:3:53:476:182#0/1
GTGACTCTCCGATTGGCCATGTTTCCGATTTGTTTTCAAA
+HWI-EAS443:3:53:476:182#0/1
a_a_^a[ZS[]NN]]¥RTRYXV_`PV[SW^RLW^_]LLV¥
@HWI-EAS443:3:58:1554:1648#0/1
CTCTCCGATTGGCCATGTTTCCGATTTGTTTTCAAAGAAT
+HWI-EAS443:3:58:1554:1648#0/1
aba`a_bab_V`V[^ZQXaa][a]`_WTab`GW¥^aW_a
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GATGGATTCCGAGCCGAACGGCTGCATTGAGGGCAAGCTTT
+HWI-EAS443:3:59:1588:954#0/1
`aab_baa`aaaa]^_aaa` `a_V_a_]Z_ZUZRDDKRX
@HWI-EAS443:3:59:1740:544#0/1
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+HWI-EAS443:3:59:1740:544#0/1
]abbbbbbbba`__Xa__^[_ba¥Ybb_ZW` `^UPa]J
@HWI-EAS443:3:5:129:615#0/1
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+HWI-EAS443:3:5:129:615#0/1
ab`bbab`abbbaa_]ab`^`Z_aaa_aa` `a]aaaa
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+HWI-EAS443:3:5:331:27#0/1
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+HWI-EAS443:3:60:1705:35#0/1
aaabaaaabaa` `]a`aa]` `X^_`T]`a¥MT[YZ]X`]W
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+HWI-EAS443:3:61:20:1030#0/1
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+HWI-EAS443:3:61:27:200#0/1
aabbbbaabababaZ^b[^`aYaWQX`a_]aa`YR` `Z[_`
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CTCCGATTGGCCATGTTTCCGATTTGTTTTCAAAGAATTC
+HWI-EAS443:3:63:506:1574#0/1
aaa`ZV]¥YYa_ZXT¥` `aa^¥W` ¥YR^_^Z_YY^¥]_]_^
@HWI-EAS443:3:63:92:707#0/1
CTCTCCGATTGGCCATGTTTCCGATTTGTTTTCAAAGAAT
+HWI-EAS443:3:63:92:707#0/1
_Z¥b`bb`baa`_YS^[^aaaaYFW` ¥[TX` `]`Q]]^¥^
@HWI-EAS443:3:65:1502:1747#0/1
GATGGATTCCGAGCCGAACGGCTGCATTGAGGGCAAGCTTT
+HWI-EAS443:3:65:1502:1747#0/1
`_X¥VT¥RW^` ¥Y¥RV[BBBBBBBBBBBBBBBBBBBB

@HWI-EAS443:3:66:1267:945#0/1
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+HWI-EAS443:3:66:1267:945#0/1
`aaa`ab`^¥aa`_]_Z_]Z]a_X]¥WEMV¥[XTV^U[[[V
@HWI-EAS443:3:66:1412:738#0/1
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+HWI-EAS443:3:66:1412:738#0/1
aaabbabaaa_`aTa_[]][__W_¥^ZHRVZaSU][UU[^
@HWI-EAS443:3:69:611:1747#0/1
CTCCGATTGGCCATGTTTCCGATTTGTTTTCAAAGAATTC
+HWI-EAS443:3:69:611:1747#0/1
abbbaa`aaaaa]Z_]aaaa_0[`a`Y`a`aa`____a`]
@HWI-EAS443:3:6:119:1923#0/1
GACTCTCCGATTGGCCATGTTTCCGATTTGTTTTCAAAGA
+HWI-EAS443:3:6:119:1923#0/1
abbab^a`baaaba¥]aa_`a_a`Z`QbaaZa^]Qaba`B
@HWI-EAS443:3:70:589:263#0/1
AAAGAAGGAAGACGGAAAACAAACCTGTATGGGTTTCATTA
+HWI-EAS443:3:70:589:263#0/1
aaaaa`a`__`a`aaaa`_]`_]`^`_]`_`^`^`^`^`^`^`_`
@HWI-EAS443:3:71:560:1781#0/1
CTTTTATAATGAACCCATACAGTTTGTGTTTCCGTCTTCC
+HWI-EAS443:3:71:560:1781#0/1
^^b``a[a`a`_]`bbb^`bbbaa]abaabbabb`aabaaa
@HWI-EAS443:3:71:830:1093#0/1
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+HWI-EAS443:3:71:830:1093#0/1
abbbb`a`abba`a``aaaa_aabaXbb_Ya^baaabab
@HWI-EAS443:3:72:902:1604#0/1
CTCCGATTGGCCATGTTTCCGATTTGTTTTCAAAGAATTC
+HWI-EAS443:3:72:902:1604#0/1
a^bb]XXa^Qa_`aVaaaY_]`[^VQS^aaW]``]]X^^W
@HWI-EAS443:3:74:1114:467#0/1
TGACTCTCCGATTGGCCATGTTTCCGATTTGTTTTCAAAG
+HWI-EAS443:3:74:1114:467#0/1
`aa[a`_MYab¥]_T[Y^^a¥XX¥ab`LZaaa¥^]_X
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+HWI-EAS443:3:74:948:62#0/1
abZ__I_^abK^[_RY_[bVS_[b^[V^bTG]`U_abaaB
@HWI-EAS443:3:75:968:1461#0/1
ATGGATTTCGAGCCGAACGGCTGCATTGAGGGCAAGCTTTC
+HWI-EAS443:3:75:968:1461#0/1
_`T¥¥_ba]aa__`aZ`Z`aaV[_[Z^]__`_a_LVUY¥
@HWI-EAS443:3:76:1176:573#0/1
CTCCGATTGGCCATGTTTCCGATTTGTTTTCAAAGAATTC
+HWI-EAS443:3:76:1176:573#0/1
aabb`¥abbba`ba_WbZa`]H`a`ZT_aa^_]`^aU^]_]
@HWI-EAS443:3:76:1205:112#0/1
CTCCGATTGGCCATGTTTCCGATTTGTTTTCAAAGAATTC

+HWI-EAS443:3:76:1205:112#0/1
`abaaa`baba^^a¥Yab__`W`aba_aaa]_aaa]^``_
@HWI-EAS443:3:76:215:1232#0/1
CTTTTATAATGAACCCATACAGTTTGTTCCTTCCGTCTCC
+HWI-EAS443:3:76:215:1232#0/1
``bbbb_H_bb`Z`bb^bbb`^_T¥`_`a¥a_ba__aaaba
@HWI-EAS443:3:78:170:586#0/1
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+HWI-EAS443:3:78:170:586#0/1
a`b]`]]PWQ^S^]VXZK[WW[[UV]]M¥^^_VSWZNTT
@HWI-EAS443:3:80:309:521#0/1
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+HWI-EAS443:3:80:309:521#0/1
¥a_[]`^^bbbaa^a`^aa`^a^]W]HLLQRMRYSVQTXF
@HWI-EAS443:3:81:1018:383#0/1
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+HWI-EAS443:3:81:1018:383#0/1
aa`VGXa__XXaYR`U¥`UQTMOX^_L_V][R^¥XWSUPM
@HWI-EAS443:3:81:1243:1360#0/1
CTCTCCGATTGGCCATGTTTCCGATTTGTTTTCAAAGAAT
+HWI-EAS443:3:81:1243:1360#0/1
aa¥bVa^Zaab`^aa[``aa`^UU_a`^T]_a_a^a]Y]`
@HWI-EAS443:3:82:244:1604#0/1
CTCTTCGCCTCTTTCCGACTGACGAAAGGAATCCCATAGA
+HWI-EAS443:3:82:244:1604#0/1
a^a`]^`^`_[]`Z[]RPFU_XOXN[R^QP]^ZLZ`VWYY
@HWI-EAS443:3:83:199:427#0/1
CTCTTCGCCTCTTTCCGACTGACGAAAGGAATCCCATAGA
+HWI-EAS443:3:83:199:427#0/1
aabb^aabaaa_aaa`_[]_a`^a````[¥_a_[]_[]_[]_[]_¥
@HWI-EAS443:3:84:1553:503#0/1
CTCCGATTGGCCATGTTTCCGATTTGTTTTCAAAGAATTC
+HWI-EAS443:3:84:1553:503#0/1
abbbbbbb`^`a`_aba]aaabbbbaabbVaa`ba`aa_
@HWI-EAS443:3:84:575:587#0/1
CTCCGATTGGCCATGTTTCCGATTTGTTTTCAAAGAATTC
+HWI-EAS443:3:84:575:587#0/1
XabaZ[[aaX_b¥_UI]a`_QV`^aaXa^¥WZ^^aa`_Ya
@HWI-EAS443:3:85:410:1710#0/1
CTCTCCGATTGGCCATGTTTCCGATTTGTTTTCAAAGAAT
+HWI-EAS443:3:85:410:1710#0/1
aabab_a_`YF[````Yaaa`]T]``ZVa]aa¥Y__``_
@HWI-EAS443:3:86:504:1224#0/1
GGGTGACTCTCCGATTGGCCATGTTTCCGATTTGTTTTCA
+HWI-EAS443:3:86:504:1224#0/1
abb[ababaa`^aaa`a`a`^`a`^`_XVaa]_a_a^a
@HWI-EAS443:3:86:901:781#0/1
CTCTCCGATTGGCCATGTTTCCGATTTGTTTTCAAAGAAT
+HWI-EAS443:3:86:901:781#0/1
abba^`ba^``¥b`H[]`¥``b_0¥^ab`a`[_¥^Za]_a

@HWI-EAS443:3:87:91:295#0/1
GAAAGCTTGCCCTCAATGCAGCCGTTCCGGCTCGAATCCAT
+HWI-EAS443:3:87:91:295#0/1
a_aMa`_]_aa_a]WZ¥___¥_^TWY¥¥YYZNNSVVUWU
@HWI-EAS443:3:88:1265:358#0/1
CTCCGATTGGCCATGTTTCCGATTTGTTTTCAAAGAATTC
+HWI-EAS443:3:88:1265:358#0/1
`__a`¥`a`a`_b_aS_a`ab`[U_b`Y]Z`_`bba`
@HWI-EAS443:3:8:1218:872#0/1
CTCCGATTGGCCATGTTTCCGATTTGTTTTCAAAGAATTC
+HWI-EAS443:3:8:1218:872#0/1
abbabbbabaaabab_bb[abaabab`bbb¥aaaaa_a`_
@HWI-EAS443:3:8:1653:1918#0/1
GAATTCCTTTGAAAACAAATCGGAAACATGGCCAATCGGAG
+HWI-EAS443:3:8:1653:1918#0/1
]abb`b`bb]bbIa`aaabS_ab`_`aaaaaHV__`_`^`
@HWI-EAS443:3:8:277:481#0/1
CTCCGATTGGCCATGTTTCCGATTTGTTTTCAAAGAATTC
+HWI-EAS443:3:8:277:481#0/1
`aa`aa^^`Z[U_¥U]]]]_UZx_¥^`_`_]`_____`
@HWI-EAS443:3:90:1132:674#0/1
CTCTTCGCCTCTTTCCGACTGACGAAAGGAATCCCATAGA
+HWI-EAS443:3:90:1132:674#0/1
abbbbbbbbbbbbaabbaabbabba`abbabbb¥^a`a`_
@HWI-EAS443:3:90:164:1150#0/1
TGGGTGACTCTCCGATTGGCCATGTTTCCGATTTGTTTTC
+HWI-EAS443:3:90:164:1150#0/1
abba`bZbbaabaaaaabaaa`__aba`a`_`aa`_`aaX
@HWI-EAS443:3:90:749:491#0/1
GGGTGACTCTCCGATTGGCCATGTTTCCGATTTGTTTTCA
+HWI-EAS443:3:90:749:491#0/1
aaa0a`a`a`^^¥¥¥]a`X_a`^`X¥]TW__XX^¥WX
@HWI-EAS443:3:91:265:1529#0/1
CTCCGATTGGCCATGTTTCCGATTTGTTTTCAAAGAATTC
+HWI-EAS443:3:91:265:1529#0/1
`bbb^aa`abbb_aR^abaa_S^aa`_`aa`a]a]`_]`a^
@HWI-EAS443:3:91:698:1293#0/1
CTCCGATTGGCCATGTTTCCGATTTGTTTTCAAAGAATTC
+HWI-EAS443:3:91:698:1293#0/1
`bbbbabababbabbaabbbba`bb`_baaa`baaaaaa
@HWI-EAS443:3:92:399:877#0/1
CTCTTCGCCTCTTTCCGACTGACGAAAGGAATCCCATAGA
+HWI-EAS443:3:92:399:877#0/1
^TW_a]W`]RWZ_aV]^a^^a^^`XY`Z^a`^]S¥_^[Z
@HWI-EAS443:3:93:895:313#0/1
ATGGATTGAGCCGAACGGCTGCATTGAGGGCAAGCTTTC
+HWI-EAS443:3:93:895:313#0/1
a`bbU`aaa`a^aa`aVa`a`bSaW¥¥W^a[LR¥^NU^WW
@HWI-EAS443:3:93:916:1640#0/1
TGGGTGACTCTCCGATTGGCCATGTTTCCGATTTGTTTTC

+HWI-EAS443:3:93:916:1640#0/1
Ya^WH^[_¥_]_Y_b]]]¥_a_¥VOYZ¥MS^ROVS`Y]```]
@HWI-EAS443:3:95:698:941#0/1
CTCCGATTGGCCATGTTTCCGATTTGTTTTCAAAGAATTC
+HWI-EAS443:3:95:698:941#0/1
aabb[bbbbaa¥_a^_a^_a`abab_abbaaaa_aba`
@HWI-EAS443:3:97:100:354#0/1
CTCTCCGATTGGCCATGTTTCCGATTTGTTTTCAAAGAAT
+HWI-EAS443:3:97:100:354#0/1
^aaabab`bbbbaaa_aYa`^¥`¥`aa`Z`a_Q_a`aaa_
@HWI-EAS443:3:97:1077:1031#0/1
ATGGATTGAGCCGAACGGCTGCATTGAGGGCAAGCTTTC
+HWI-EAS443:3:97:1077:1031#0/1
abbbbaa^Zba_a_aba^a`a]aZ_UVXYX`]JV[UYZ_YM
@HWI-EAS443:3:97:486:1636#0/1
CTCTCCGATTGGCCATGTTTCCGATTTGTTTTCAAAGAAT
+HWI-EAS443:3:97:486:1636#0/1
_babbX_aabbbbbXaX]b`bY[aa`_b`[Z]^aU`Wa
@HWI-EAS443:3:97:909:968#0/1
CTCCGATTGGCCATGTTTCCGATTTGTTTTCAAAGAATTC
+HWI-EAS443:3:97:909:968#0/1
¥a]a`_R]a`YW_`]]S]_P]`¥¥[R[Y[L[_¥aLQ]PX
@HWI-EAS443:3:9:858:1101#0/1
CTCCGATTGGCCATGTTTCCGATTTGTTTTCAAAGAATTC
+HWI-EAS443:3:9:858:1101#0/1
abb_XVba`^XUS[aabb¥V`[`]Yb`aa^W_]U¥[¥aaW
@HWI-EAS443:3:13:401:1403#0/1
CCCATATTCTTTCATTGCCTTTTCCGCAAGCTCGAAGATC
+HWI-EAS443:3:13:401:1403#0/1
a_]¥VJbaa[bbb`bZSa_bbaabbVabbLXa]UMH^b^^
@HWI-EAS443:3:19:405:751#0/1
GATCGTCGAGCTTGGCGAAAAGGCAATGAAAGAATATGGG
+HWI-EAS443:3:19:405:751#0/1
aaaaa`abaaa`aa]aa¥a`a]aa_ab``_`_^`_a]_
@HWI-EAS443:3:10:419:574#0/1
CACCGATTTGAGATAATTGAAGGAAGAGACCGATATGCGT
+HWI-EAS443:3:10:419:574#0/1
aaabbaabbbb`bbbbaabbZbaab`aaaa_a_aa_aa`^
@HWI-EAS443:3:11:679:331#0/1
GGCTCTTCCCCATCTTCTTTCATTGCCTTTTCCGCAAGCT
+HWI-EAS443:3:11:679:331#0/1
``G`S`[``_`_`Mab`bab_bbba`bbbbbbb]abbaZa
@HWI-EAS443:3:44:773:2035#0/1
GCGCGAAAANGCAATGAAAGAATATGGGGAAGATCCGAA
+HWI-EAS443:3:44:773:2035#0/1
aX[ZVb`_`PDUZa_^a^aV¥_¥¥_¥_^WU[P_^ZZZ]Z]
@HWI-EAS443:3:11:1618:1823#0/1
GCGGAAAAGGCAATGAAAGAATATGGGGAAGATCAGAAAA
+HWI-EAS443:3:11:1618:1823#0/1
U`a__[_Sa`[ZY`b``]_X[aaaVYP][]¥X[GGQX`aa

@HWI-EAS443:3:85:293:1716#0/1
CTCTTCCCCTCTTTCGGACTGACGAAAGGAATCCCATAGA
+HWI-EAS443:3:85:293:1716#0/1
a`_Z]S^b][V#aZUZ`_TaaaaU]¥VJOaVDER]__X`
@HWI-EAS443:3:33:184:161#0/1
CGAGCTTGCGGAAAAGGCAATGAAAGAATATGGGGAACCT
+HWI-EAS443:3:33:184:161#0/1
a`VS_aVa_Y]`MQRVV]WT``WSV]VLPJY[TUYUZWSW
@HWI-EAS443:3:84:262:642#0/1
TCCCCATATTCTTTCATTGCCTTTTCCGCAAGCTCGANGA
+HWI-EAS443:3:84:262:642#0/1
a`````b]ba``ababbabaaaaaabaaba`aaa[D¥`
@HWI-EAS443:3:43:1712:1468#0/1
AAAANGCAATGAAAGAATATGGGGAAGATCCGAAAATCGA
+HWI-EAS443:3:43:1712:1468#0/1
a_b]D[ba`b¥^^`b`bbb_baba]ab_b_aaabbaa]aa
@HWI-EAS443:3:13:623:187#0/1
CGCCCCATATTCTTTCATTGCCTTTTCCGCAAGCTCGACG
+HWI-EAS443:3:13:623:187#0/1
V_bbb`_a]bbZ_^bbbbbaa`_`aaaabbaababa¥a
@HWI-EAS443:3:31:595:401#0/1
ACCCCATATTCTTTCATTGCCTTTTCCGCAAGCTCGACGA
+HWI-EAS443:3:31:595:401#0/1
Zabbab¥Kbbbb`bbabaaabbb`bbabbbbabbbb¥baa
@HWI-EAS443:3:62:1150:1982#0/1
GTTCCCATATTCTTTCATTGCCTTTTCCGCAAGCTCGAC
+HWI-EAS443:3:62:1150:1982#0/1
`_bbbbbabbbbababbbb`abbbba¥Ybbba`[```b
@HWI-EAS443:3:12:1199:1347#0/1
CTTGCGGAAAAGGCAATGAAAGAATATGGGGAAGATCCGA
+HWI-EAS443:3:12:1199:1347#0/1
aaaabaaabb`babbbbbbaa`abbbba`abaaba^_b`
@HWI-EAS443:3:19:325:648#0/1
AAGGCAATGAAAGAATATGGGGAAGATCCGAAAATCGAAA
+HWI-EAS443:3:19:325:648#0/1
aababb^aaaaa`aa_aaaaaaba_a`aa`b``___`a
@HWI-EAS443:3:19:635:679#0/1
GAAAAGGCAATGAAAGAATATGGGGAAGATCCGAAAATCG
+HWI-EAS443:3:19:635:679#0/1
U`R^a[]W^aY`¥SZ^a`_^PY¥^ZY[___U`TV_]`
@HWI-EAS443:3:25:1238:101#0/1
TTTCGATTTTTCGGATCTTCCCCATATTCTTTCATTGCCTT
+HWI-EAS443:3:25:1238:101#0/1
`abab_aaaa_aUL_N_aWM[MR_Saa^a``QY`]_]R__
@HWI-EAS443:3:28:1551:564#0/1
GGAAAAGGCAATGAAAGAATATGGGGAAGATCCGAAAATC
+HWI-EAS443:3:28:1551:564#0/1
aaaa`aa]a_aa`_`a`_`]X`__a^Y]_^_^S
@HWI-EAS443:3:28:760:1326#0/1
AAGGCAATGAAAGAATATGGGGAAGATCCGAAAATCGAAA

+HWI-EAS443:3:28:760:1326#0/1
_ ^]__baaaaa`_aaa`a`¥`^]Z^]a`aa`a`_`_`^`
@HWI-EAS443:3:28:95:1267#0/1
CTTGCGGAAAAGGCAATGAAAGAATATGGGGAAGATCCGA
+HWI-EAS443:3:28:95:1267#0/1
aa_X`a`_]`aaZN_aaaa_V]_W]¥`^`_Y]¥^`_] ^] ^`
@HWI-EAS443:3:32:242:1150#0/1
CTTCCCATATTCTTTCATTGCCTTTTCCGCAAGCTCGAC
+HWI-EAS443:3:32:242:1150#0/1
abbbaba^`bbbbabbbbbbbbbbbbaaba_`bbbb_b
@HWI-EAS443:3:32:97:198#0/1
GATCTTCCCATATTCTTTCATTGCCTTTTCCGCAAGCTC
+HWI-EAS443:3:32:97:198#0/1
`G_Vaa`_a_Za^babbbb_aaaaabaaaa_aa`a`R`__
@HWI-EAS443:3:36:609:1031#0/1
TTGCGGAAAAGGCAATGAAAGAATATGGGGAAGATCCGAA
+HWI-EAS443:3:36:609:1031#0/1
_]`a`^Mabb`¥Yaabbaa^¥]^aa`W¥_aaa_]baa`W
@HWI-EAS443:3:38:827:1858#0/1
CTTCCCATATTCTTTCATTGCCTTTTCCGCAAGCTCGAC
+HWI-EAS443:3:38:827:1858#0/1
abbbbbbbbbbbbbbbbbbbbbbbbbbbab[bba_aa_bV
@HWI-EAS443:3:40:1496:260#0/1
TCCCATATTCTTTCATTGCCTTTTCCGCAAGCTCGACGA
+HWI-EAS443:3:40:1496:260#0/1
^LYZaaaR_a[a_`__a`a`_a`_^U]`_`¥U[W^_ZT^Y
@HWI-EAS443:3:44:197:238#0/1
CGATTTTCGGATCTTCCCATATTCTTTCATTGCCTTTTC
+HWI-EAS443:3:44:197:238#0/1
abXaaaaabaU^Xaa]^aaaa¥aaaaaaaaaaaa_`aaa`_
@HWI-EAS443:3:44:281:318#0/1
GCTTGCGGAAAAGGCAATGAAAGAATATGGGGAAGATCCG
+HWI-EAS443:3:44:281:318#0/1
a^aaaaaa_aaZ]a`a`aa¥^]¥Y`_`___^`RU^`^Y¥^
@HWI-EAS443:3:44:547:901#0/1
GCGGAAAAGGCAATGAAAGAATATGGGGAAGATCCGAAAA
+HWI-EAS443:3:44:547:901#0/1
abbbabababab`bbab`a[[_aa`aaa^a`aaa[^_a_`_`_
@HWI-EAS443:3:47:1500:1543#0/1
CTTGCGGAAAAGGCAATGAAAGAATATGGGGAAGATCCGA
+HWI-EAS443:3:47:1500:1543#0/1
aabaabbabababababab`_a`aaaa___a¥Y`___Z`_
@HWI-EAS443:3:4:1522:965#0/1
CTTGCGGAAAAGGCAATGAAAGAATATGGGGAAGATCCGA
+HWI-EAS443:3:4:1522:965#0/1
_ab]_a__aaaaaaaabb`_`_a__`a`a__a`^a^WYZ`_
@HWI-EAS443:3:50:46:1472#0/1
GTTCGAGCTTGCGGAAAAGGCAATGAAAGAATATGGGGAAG
+HWI-EAS443:3:50:46:1472#0/1
aZH[VZVZ_^X_`SZ][[_UaYaa[UZ`^`_`^¥^`_`¥Y[^

@HWI-EAS443:3:53:517:300#0/1
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+HWI-EAS443:3:53:517:300#0/1
`aaabbbbZ_[aaabbbbRbbbbbbb_abbba^bbba¥ab
@HWI-EAS443:3:54:197:334#0/1
GCTTGCAGAAAAGGCAATGAAAGAATATGGGGAAGATCCG
+HWI-EAS443:3:54:197:334#0/1
aa^b`bb][_____aW`YU^]a]_a`__[^_^_^ZXUa
@HWI-EAS443:3:58:363:1336#0/1
GTCTGAGCTTGCAGAAAAGGCAATGAAAGAATATGGGGAAG
+HWI-EAS443:3:58:363:1336#0/1
a]`_^aaa_aabaaa`Ya_aa^aa^]_`W]]_``____Z`_`
@HWI-EAS443:3:64:1161:569#0/1
ATCTTCCCATATTCTTTCATTGCCTTTTCCGCAAGCTCG
+HWI-EAS443:3:64:1161:569#0/1
`b`bbb_`babbbbbbbbabbbbaabbbbaaaabbabb`
@HWI-EAS443:3:65:202:262#0/1
CTTCCCATATTCTTTCATTGCCTTTTCCGCAAGCTCGAC
+HWI-EAS443:3:65:202:262#0/1
XX[_aa¥[``bb_Z`_[``bb`_abbbb¥a`_U`Y_WSV
@HWI-EAS443:3:66:1361:468#0/1
GTCTGAGCTTGCAGAAAAGGCAATGAAAGAATATGGGGAAG
+HWI-EAS443:3:66:1361:468#0/1
a¥SXQ[``aa^aa[V¥^a`¥[Za]S__a[OU^^`_]_ZX]
@HWI-EAS443:3:67:493:803#0/1
GCGGAAAAGGCAATGAAAGAATATGGGGAAGATCCGAAAA
+HWI-EAS443:3:67:493:803#0/1
^abba[````aa[aaaaaaaaabaaa`abaaaaabaaba
@HWI-EAS443:3:69:1504:881#0/1
CGTCGAGCTTGCAGAAAAGGCAATGAAAGAATATGGGGAA
+HWI-EAS443:3:69:1504:881#0/1
aaVbbabaa_a_baYa_`aaaaab_a^a]_``a`^^^`^
@HWI-EAS443:3:6:1373:1243#0/1
TTGCGGAAAAGGCAATGAAAGAATATGGGGAAGATCCGAA
+HWI-EAS443:3:6:1373:1243#0/1
abbab`abaaTaaa^ab``_a_`a`_¥__a_]a__S`_`a
@HWI-EAS443:3:70:562:1340#0/1
CTTCCCATATTCTTTCATTGCCTTTTCCGCAAGCTCGAC
+HWI-EAS443:3:70:562:1340#0/1
`bbaaa`Za_bbba`a`_`¥bb]babbbb`WWaab¥ba
@HWI-EAS443:3:70:589:1989#0/1
TTTCGGATCTTCCCATATTCTTTCATTGCCTTTTCCGCA
+HWI-EAS443:3:70:589:1989#0/1
aa_a`SS]Y^a`T^aZaYaa`aaabba`abbaaaaa`b
@HWI-EAS443:3:72:300:1586#0/1
CTTCCCATATTCTTTCATTGCCTTTTCCGCAAGCTCGAC
+HWI-EAS443:3:72:300:1586#0/1
_]`abbaWa¥```b`bbbabab`bbababba``aab`U`
@HWI-EAS443:3:72:706:1674#0/1
GAAAAGGCAATGAAAGAATATGGGGAAGATCCGAAAATCG

+HWI-EAS443:3:72:706:1674#0/1
¥` `aaa^bb`¥R]¥aa`bb_`a] `ab`aaabaaaaaa¥T
@HWI-EAS443:3:72:89:453#0/1
CTTCCCATATTCTTTCATTGCCTTTTCCGCAAGCTCGAC
+HWI-EAS443:3:72:89:453#0/1
^bbbaa_P¥bb`_babbabb` `bbbabbaaba]bbabbbb
@HWI-EAS443:3:74:940:1786#0/1
GTTTCGATTTTTCGGATCTTCCCATATTCTTTCATTGCCT
+HWI-EAS443:3:74:940:1786#0/1
a]aabaY` ` [` [ZSHRO_Y] `Ya`_Z__^`_]aZ`^^VP[
@HWI-EAS443:3:76:657:1961#0/1
AGGCAATGAAAGAATATGGGGAAGATCCGAAAATCGAAAC
+HWI-EAS443:3:76:657:1961#0/1
_Y_bb`bb^ba` ` ` `^aW]Zaaaa`_aa`^^a_`]__a[
@HWI-EAS443:3:76:743:1308#0/1
CGATTTTTCGGATCTTCCCATATTCTTTCATTGCCTTTTC
+HWI-EAS443:3:76:743:1308#0/1
aaYabb_aa` [_Xaa_^`¥^]Z[` `a^` `aa` `¥_[_a`_`
@HWI-EAS443:3:77:1476:784#0/1
CGTCGAGCTTTCGGAAAAGGCAATGAAAGAATATGGGGAA
+HWI-EAS443:3:77:1476:784#0/1
`bab`bbabbbb` `babbbb[bbbbbbbbbbabbbbaU_bb
@HWI-EAS443:3:79:721:1878#0/1
AGGCAATGAAAGAATATGGGGAAGATCCGAAAATCGAAAC
+HWI-EAS443:3:79:721:1878#0/1
`[W]ba_¥¥` `]a`Z_¥YSZV_]a` `a¥a`^a^`Ua_^]
@HWI-EAS443:3:7:821:1116#0/1
GAAAAGGCAATGAAAGAATATGGGGAAGATCCGAAAATCG
+HWI-EAS443:3:7:821:1116#0/1
aaaY^`baaa`aZ[_aY_a___^^_^^^__ [N]^__` [X_
@HWI-EAS443:3:83:31:1149#0/1
GCGGAAAAGGCAATGAAAGAATATGGGGAAGATCCGAAAA
+HWI-EAS443:3:83:31:1149#0/1
aab_¥^^` `a__`a[Y_`Y_` `__]^__`_]Z[_^]_`]
@HWI-EAS443:3:91:1717:815#0/1
GGATCTTCCCATATTCTTTCATTGCCTTTTCCGCAAGCT
+HWI-EAS443:3:91:1717:815#0/1
aaH[Z^a^¥ZUX]Z^`W`_a[_` `X^X_a_^ZX`Y_]WRX
@HWI-EAS443:3:96:1789:788#0/1
TTGCGGAAAAGGCAATGAAAGAATATGGGGAAGATCCGAA
+HWI-EAS443:3:96:1789:788#0/1
Y^T`aba¥T[_GZ`]_^PPQ] ` _T_VZYZ__a^ZY[W[_B
@HWI-EAS443:3:21:1498:1017#0/1
ATCGAAGGTTCCAGGTTCCAGGTTGCCCTAAGAGCATGA
+HWI-EAS443:3:21:1498:1017#0/1
^_[V]ZLUZ]_Z¥]XV¥XUYRVRWX` ¥0¥BBBBBBBBBBBB
@HWI-EAS443:3:49:444:754#0/1
AAGATCGAAGGTTCCAGGTTCCAGGTTGTCGCTAAGTGGC
+HWI-EAS443:3:49:444:754#0/1
_R^aa] `^0`aQSUW_Z]]HX` []aBBBBBBBBBBBBBBBB

@HWI-EAS443:3:16:940:664#0/1
CGCCTTTCTTCAGTCTCTTCAGCAGATTGAGAGCATGATT
+HWI-EAS443:3:16:940:664#0/1
aa`_]X_a[a`]Y_]Z`_[]` [ZZX_ZZY]U_TVZ¥a]Q
@HWI-EAS443:3:14:1512:736#0/1
TATATGGAAATGAGGCGCNGCCTTCTTCAGTCTCTTCAGC
+HWI-EAS443:3:14:1512:736#0/1
_¥``aaa]¥a[M^` [V_XDYVYWZV_] [U_NG^WZ^W^YZ
@HWI-EAS443:3:80:994:1623#0/1
AGAGGCGCTGGCTTCTTCAGTCTCTTCAGCAGATTGAGAG
+HWI-EAS443:3:80:994:1623#0/1
^XWO^b__VVHU[aXa¥^aaJPZTVXGNX``a^S[PGM]G
@HWI-EAS443:3:21:493:146#0/1
ATGGAAATGAGGCGCTGCCTTCTTCAGTCTCTTCAGAAGA
+HWI-EAS443:3:21:493:146#0/1
aab`_[aaa`aa`_]_a`]]`_^_[]_U__`^Y][¥FX`Y
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+HWI-EAS443:3:40:1237:1784#0/1
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a\_[\_aUab\_`aaa`^`\_\_\_\_a^Y\_Y\_a]]\_]^^X`]X^^UX  
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a_] [¥]^PZXNVLNNWQXPVGXVP^[¥JY¥UV[`_]GQF
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GGAAATGAGGCGCTGCCTTCTTCAGTCTCTTCAGCAGATT
+HWI-EAS443:3:93:1342:171#0/1
aa_`W_b]aaaa^a¥NT[`¥a__a_¥¥_¥^¥^^[T¥_SYB
@HWI-EAS443:3:93:31:725#0/1
GCTGCCTTCTTCAGTCTCTTCAGCAGATTGAGAGCATGAT
+HWI-EAS443:3:93:31:725#0/1
ab_`]_`a`X[¥WZ_a]^`Y``]Y^^JR]^P^^_`WZ¥TY
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+HWI-EAS443:3:93:332:640#0/1
a`baVaaa_aa^_YZPVG¥YRU__¥V^¥V_¥ZPQ]WN¥¥B
@HWI-EAS443:3:93:461:740#0/1
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+HWI-EAS443:3:93:461:740#0/1
a_aaVJ[`aU``_`S`^[¥¥Za_Y_]WZZ`¥_WT¥Y^_S
@HWI-EAS443:3:94:1365:1417#0/1
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+HWI-EAS443:3:94:1365:1417#0/1
aabaaaaabab```a`a_[]aa`aaaaabaaaa[¥`¥¥`a
@HWI-EAS443:3:94:296:1323#0/1
CGAAGGTTCCAGGTTCCAGGTTGCCCTAAGTGCCTGAAC
+HWI-EAS443:3:94:296:1323#0/1
aa]a_aUS`a_a_Z^aaaa_W`_X_]_¥_[]U__YX_X]^
@HWI-EAS443:3:94:642:991#0/1
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+HWI-EAS443:3:94:642:991#0/1
^^b`b__`U```aa`bZSZ]¥_aaa¥`a_b````baaa_a_
@HWI-EAS443:3:95:1396:291#0/1
GTTCATTATAAAAGGAAGGTCTCATTGAGAAATGATACT
+HWI-EAS443:3:95:1396:291#0/1
`ab_a_baa¥`aaaaT^`b¥Ka`_a`abaa¥``bb[a`V^
@HWI-EAS443:3:95:512:609#0/1
CGAAGGTTCCAGGTTCCAGGTTGCCCTAAGTGCCTGAAC
+HWI-EAS443:3:95:512:609#0/1
^_abb``bbb_a^^aaaaababaa]aabaaa]^_aaaa]P
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+HWI-EAS443:3:96:1694:1368#0/1
¥a`]]bbbb`Ya_WZ_¥]bWLa¥`a_b`^U¥a`^aaaX]
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+HWI-EAS443:3:96:350:985#0/1
abab_b`aa`a¥]aaa¥Zaa`aa_a_aaaa`]aa]_a`a`
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]bbU]abZYW`U`a¥ZX[V_a`XUX[¥_____`[[aT¥
@HWI-EAS443:3:97:1052:931#0/1
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T`_bab_baba_Xbb`bbbabbbbababbababb_]aXaa
@HWI-EAS443:3:97:367:1606#0/1
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abba`_]aaabbaabaabaababbaba[aab`aaa_a`aa
@HWI-EAS443:3:97:375:763#0/1
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+HWI-EAS443:3:97:375:763#0/1
a`]VY``b]baabb_a`_aaZa`Y`aaa`^aS¥R__U_] [
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aaaaa`abbabb^a``a^^aaH`^`^`_UaX`aY^_N[a_
@HWI-EAS443:3:98:153:1350#0/1
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+HWI-EAS443:3:98:153:1350#0/1
aaaaaaaa0]LZV¥a0^__K_]0^¥^UMXXV_OVS[VVVV
@HWI-EAS443:3:98:741:156#0/1
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+HWI-EAS443:3:98:741:156#0/1
_a][]bb`a[UTaaaaT^NVQ`]ab`_ba`aaa`¥_ZaZ
@HWI-EAS443:3:98:927:180#0/1
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+HWI-EAS443:3:98:927:180#0/1
^]bbaa]_ba]b^U`ab_b^aa`_`aa`S_Z_]_aX_GX_
@HWI-EAS443:3:98:95:1038#0/1
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+HWI-EAS443:3:98:95:1038#0/1
_W_b__Z[b`XSZ__V`a_^`Z^a^`a[[^YWaa_WVXZL
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+HWI-EAS443:3:99:1049:881#0/1
[W][Z¥`^^_b`YZ]WP]¥TL¥QPa_^`Y]_H_VSTaZ
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+HWI-EAS443:3:9:101:1883#0/1
abUaZN]S¥¥ZU`aa`^a`^`_]_^]_aQRXX__aa¥____]

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`][baaaab`aaaa]a]X¥^F¥a[]`VXaTa_S]_RY]]
@HWI-EAS443:3:9:859:188#0/1
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+HWI-EAS443:3:9:859:188#0/1
S_`a]bU]ba`aa¥G¥X[_`a_^`Z[a`U¥LL^V`]NYND
@HWI-EAS443:3:59:1738:243#0/1
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+HWI-EAS443:3:59:1738:243#0/1
VW__¥¥bbabbaaaZ_a^a`]a`a]^aa_ZDZ[ZSG¥ZV
@HWI-EAS443:3:54:1384:951#0/1
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+HWI-EAS443:3:54:1384:951#0/1
]RP_]VPZa^`P_[^XX]] [¥PKVDDTRYWWPWX^V[¥N
@HWI-EAS443:3:65:917:1336#0/1
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+HWI-EAS443:3:65:917:1336#0/1
`ba`_bbaababbbbaaaa_a]_aa`a_]aaaa^D[a`
@HWI-EAS443:3:79:16:295#0/1
CAGGTACTNATCCAAAATGGAAGGCTTTGTGCGACAATGC
+HWI-EAS443:3:79:16:295#0/1
`^a`_aaVD¥_Za`XOWXXZ]Ua` ``][XTR_[ZW``^UZR
@HWI-EAS443:3:48:592:1639#0/1
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+HWI-EAS443:3:48:592:1639#0/1
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+HWI-EAS443:3:76:1203:852#0/1
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+HWI-EAS443:3:10:1221:1971#0/1
abaa`aa`abba]abbbba_baaa_`^`a_aZab]ba`a_
@HWI-EAS443:3:10:812:1023#0/1
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+HWI-EAS443:3:10:812:1023#0/1
__OIZSaab`baZ[`XI]_Sa^YYTa_aa_]a^]`W_a
@HWI-EAS443:3:14:1343:1817#0/1
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+HWI-EAS443:3:14:1343:1817#0/1
_[¥bba_aRa^T]]T¥P_`^aabaab` `` `][Ua^aa^a^a
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+HWI-EAS443:3:14:863:1114#0/1
a`aYUZ`Z[SYa`_`^[[UYZS[_]]]_Y^]Y]]_Y^_S
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+HWI-EAS443:3:15:1181:158#0/1
_ ^ZY¥ZbX]abX¥J_baaV`a_Y¥KRK[]TVQUQSNWaP_
@HWI-EAS443:3:16:1193:283#0/1
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+HWI-EAS443:3:16:1193:283#0/1
a]^]]YJY¥_a¥]¥N¥a`][a`_`]^`_`XLY^^¥Z]S¥
@HWI-EAS443:3:17:1276:535#0/1
AAGCAGGTACTGATCCAAAATGGAAGGCTTTGTGCGACAA
+HWI-EAS443:3:17:1276:535#0/1
a`^_W_W`Z[QYa[U¥_YY]_W[[_[____`VaT]WW^]
@HWI-EAS443:3:19:100:1017#0/1
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+HWI-EAS443:3:19:100:1017#0/1
Y^_a[aa]aa`^a^]UX`^_aQ^[_][U[_^_^_ZZ_
@HWI-EAS443:3:1:906:680#0/1
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+HWI-EAS443:3:1:906:680#0/1
aa¥aaaa`a[Zaa_`_`a_`^`[_`a_`]aX`^Z`^_`S`B
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+HWI-EAS443:3:23:813:222#0/1
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@HWI-EAS443:3:24:1686:607#0/1
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+HWI-EAS443:3:24:1686:607#0/1
a_baababbbbbb`aabbaabb^babaadWabYbaaa_
@HWI-EAS443:3:24:354:1135#0/1
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+HWI-EAS443:3:24:354:1135#0/1
`aaa[^^a`¥^aba]`aa_`a`^`^`a__aZ_a___a^`^`_
@HWI-EAS443:3:27:1408:1483#0/1
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+HWI-EAS443:3:27:1408:1483#0/1
a_HO^^]_L]_a¥[aN^`a]a`^`[b_^_W_a___aVRWXa
@HWI-EAS443:3:2:1784:523#0/1
AGCAGGTACTGATCCAAAATGGAAGGCTTTGTGCGACAAT
+HWI-EAS443:3:2:1784:523#0/1
ab_a__¥_]aX`aZO_¥Y^_TY^_]a^`]^_0]XY_V_¥V
@HWI-EAS443:3:34:355:1581#0/1
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+HWI-EAS443:3:34:355:1581#0/1
U`bb^V^V¥KZ`^`aT^^^b0[OXP]WJ^^`^YFY¥_Qa
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+HWI-EAS443:3:36:1302:822#0/1
_`¥W__`a_W]RT`aZ]J[_Q¥¥[Q[XTWZWNQVYWRHYU
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+HWI-EAS443:3:42:1024:1907#0/1
`^`aY_`^`]UU_Y^Ya]]_]_^]`_]_¥G¥_`^_¥_Z_]_[W`

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+HWI-EAS443:3:42:1458:1099#0/1
a¥GU_aYQ_^a`_[_[PUa`¥_]TN]`aaZ]ZP[V_[aa^
@HWI-EAS443:3:42:834:444#0/1
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+HWI-EAS443:3:42:834:444#0/1
_`_aaaZLWP[b_a__`^_a`^^`_X^a__U`_a^^U^
@HWI-EAS443:3:44:1468:277#0/1
CAGGTACTGATCCAAAATGGAAGGCTTTGTGCGACAATGC
+HWI-EAS443:3:44:1468:277#0/1
aT]YFQK]_Z¥XQSTYSTZXZZ¥¥PFX[YVQMNvZ]LRMM
@HWI-EAS443:3:49:72:175#0/1
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+HWI-EAS443:3:49:72:175#0/1
`]Y`Za]aa_`_`^`a`¥X^P]___ZZY¥`S][V_]YVN
@HWI-EAS443:3:4:1011:1114#0/1
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+HWI-EAS443:3:4:1011:1114#0/1
a_]ZPYb[T`]AJ`ZSR_]`¥P_aTb]¥aVbUb^_``_WR
@HWI-EAS443:3:4:1529:1498#0/1
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+HWI-EAS443:3:4:1529:1498#0/1
a_``a`Z_[[SY`Y^_[`[`]_^[_`U^]U[]][XSFY_]`
@HWI-EAS443:3:50:1262:1202#0/1
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+HWI-EAS443:3:50:1262:1202#0/1
abaabbabbbbbbbbabbb`babb`bbabababa_babbb
@HWI-EAS443:3:50:1561:402#0/1
GCAGGTACTGATCCAAAATGGAAGGCTTTGTGCGACAATG
+HWI-EAS443:3:50:1561:402#0/1
]_____U¥aa`a`]]_`aaaa`a_]_[__aaZ_____¥]¥a`
@HWI-EAS443:3:51:236:23#0/1
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+HWI-EAS443:3:51:236:23#0/1
aabaabb[a^ab`a^`a]`a`aa`a```aaa_a¥a^[]`
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+HWI-EAS443:3:52:494:1578#0/1
aaaaa]babYY`aaa___YV`a`a[_YV_aa¥`a_a_a
@HWI-EAS443:3:55:1373:831#0/1
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+HWI-EAS443:3:55:1373:831#0/1
a[Y¥H`a_^[a^a___P[___¥WLXU]a^`W`Ra_XY]Q¥_
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+HWI-EAS443:3:5:1372:1809#0/1
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+HWI-EAS443:3:75:121:446#0/1
^_H_ab_X[_[Z]`BBBBBBBBBBBBBBBBBBBBBBBB
@HWI-EAS443:3:75:419:1910#0/1
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+HWI-EAS443:3:75:419:1910#0/1
a]ab^_Zbba`a`_aaaa_`^ba^ba`_]_a___aa_
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+HWI-EAS443:3:78:52:396#0/1
_Ua¥aaLZ`Ya__^aab^H^_[[]¥_aTQ__U____Z`¥`
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+HWI-EAS443:3:7:1341:1017#0/1
a`aaaa_a^aaaa_`^aa`aaXaa`^]aXaa^`^][`_R
@HWI-EAS443:3:80:101:219#0/1
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+HWI-EAS443:3:80:101:219#0/1
Z[Z]PXXZ__`¥`T)`VYR_ZV_W_Z]X]WX_X^UU_
@HWI-EAS443:3:84:1583:1627#0/1
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+HWI-EAS443:3:84:1583:1627#0/1
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+HWI-EAS443:3:85:108:1898#0/1
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+HWI-EAS443:3:87:1540:1790#0/1
__OVaa`_¥aa__RY`aaaab_bYRSX¥_aWTWD[_X_Ua
@HWI-EAS443:3:87:208:786#0/1
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+HWI-EAS443:3:87:208:786#0/1
a``^aZWaaa_a_aY`_a```aa`_X¥`¥¥Z_^_`aa]`
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+HWI-EAS443:3:8:102:1605#0/1
aaaaaa_Z^a`_``^`_aaaa`_]a[¥R__^]_^^¥]_¥[
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+HWI-EAS443:3:8:1282:379#0/1
aa`_]aba_a^aa`_YY````_a_a_[`_Z`_`_^^W]ZV^
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+HWI-EAS443:3:8:193:857#0/1
a][Y[aa_a`a`aaaa`_`[_]`_`_aa^aZ__`a``_Y
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+HWI-EAS443:3:8:639:1950#0/1
abbaa_b_Qa]¥aa_]_a_aaa`_`Za__aa]PH`_^0_R
@HWI-EAS443:3:8:710:1173#0/1
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+HWI-EAS443:3:8:710:1173#0/1
V¥WbaaV`]XSHaUN[aYa[Z]^¥UT__`YHS¥Z¥W¥_B
@HWI-EAS443:3:91:846:221#0/1
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+HWI-EAS443:3:91:846:221#0/1
a^`_`Za][^]Z¥]^_Z]^_¥^W¥Z`_Z^Z^ZV^]Z^
@HWI-EAS443:3:92:243:1353#0/1
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+HWI-EAS443:3:92:243:1353#0/1
a`_]`baaa`bbbaa[[_aa]^ba__a]a`aaaa_`_
@HWI-EAS443:3:93:1371:672#0/1
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+HWI-EAS443:3:93:1371:672#0/1
X^bb_bbbabbbVbbbab`bbbabababb_baab`bbb`a
@HWI-EAS443:3:93:1406:119#0/1
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+HWI-EAS443:3:93:1406:119#0/1
a_Ya`aU]W^`^_¥]a`_`_aaa_^a^`W_^_X_YWXZ_
@HWI-EAS443:3:98:357:1610#0/1
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+HWI-EAS443:3:98:357:1610#0/1
a]Z¥0`a^_]P_¥_¥_a]URaUR]_^`Z`Z`I^`^`_W`X
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+HWI-EAS443:3:9:1226:1740#0/1
XRWH[N^Zbaa`^Taba`^a]a__0`¥_¥X_G_U[]`U
@HWI-EAS443:3:11:459:1217#0/1
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+HWI-EAS443:3:11:459:1217#0/1
aaaabb_aaaba`aa¥aba`[Xa`]]`____[aa[_a[
@HWI-EAS443:3:18:1208:146#0/1
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+HWI-EAS443:3:18:1208:146#0/1
a`b`_[ababaa`aaaab`]^_a_LV`aa¥`_]a`_aaa`
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+HWI-EAS443:3:20:444:113#0/1
]bbb_]bbbaX`b^SYb^`baP`ba`^bb`aa`_a_a`I[
@HWI-EAS443:3:21:38:1729#0/1
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+HWI-EAS443:3:21:38:1729#0/1
_aab__baaaa`a]^`Y_a_PaU¥UZaSWX`_`a]`a_]`
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+HWI-EAS443:3:32:928:1886#0/1
`[XL¥XN`Y0^a_XUZ¥a_^]OLYU¥XW_VZ¥MOY]]N_^

@HWI-EAS443:3:42:86:1642#0/1
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@HWI-EAS443:3:48:809:1698#0/1
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+HWI-EAS443:3:48:809:1698#0/1
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@HWI-EAS443:3:49:525:396#0/1
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+HWI-EAS443:3:49:525:396#0/1
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@HWI-EAS443:3:4:154:197#0/1
GACAGTATGGATAGCAAATAGTAGCATTGCCACAACACTACT
+HWI-EAS443:3:4:154:197#0/1
abb`b[b`bbbX`a`aaa`¥]H`Z_YY]aa`aZZ`P`_XZ
@HWI-EAS443:3:4:473:703#0/1
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+HWI-EAS443:3:4:473:703#0/1
aa`ba[aa`ba`]aXaaa`¥WP`_]X]aa]]`_`X`_`_`
@HWI-EAS443:3:50:393:139#0/1
GGACAGTATGGATAGCAAATAGTAGCATTGCCACAACACTAC
+HWI-EAS443:3:50:393:139#0/1
aaa^ab`aaaa`_a_aa^¥YW[[_`_^R]PM]_V^_X
@HWI-EAS443:3:51:1415:1128#0/1
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+HWI-EAS443:3:51:1415:1128#0/1
^aaT¥_TXS_b`_Y[T`¥b]Z¥¥`b]Ua_Ka`a`¥^RaaZ
@HWI-EAS443:3:53:1594:1165#0/1
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+HWI-EAS443:3:53:1594:1165#0/1
[I¥aSaYba`^ba`aU_UW_WX_Z_W_Z[¥Q]aXYX[X]
@HWI-EAS443:3:54:1573:1598#0/1
GACAGTATGGATAGCAAATAGTAGCATTGCCACAACACTACT
+HWI-EAS443:3:54:1573:1598#0/1
aaaab`aa`^`_`a__`a`¥¥Z`^¥`Y¥_[[]_^]_Q`
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a__aab^aaaa`aaa`_]`_a^XU_aTG[a__[PY]ZT^¥Z
@HWI-EAS443:3:5:1245:1401#0/1
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+HWI-EAS443:3:5:1245:1401#0/1
abaab`a`abb`_`__[aaa]^Y¥a`U`_a`^¥`P`_`_a`W
@HWI-EAS443:3:61:1222:990#0/1
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+HWI-EAS443:3:61:1222:990#0/1
aabb_bab^^aa`¥_aba`a[``[J]]T]____^^GZYX¥X
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+HWI-EAS443:3:61:856:48#0/1
aa^`¥`U]``_XXUZ]_XYZXTX¥WW^XXXXYXZWPWYY
@HWI-EAS443:3:67:564:1675#0/1
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+HWI-EAS443:3:67:564:1675#0/1
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@HWI-EAS443:3:70:1177:258#0/1
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+HWI-EAS443:3:70:1177:258#0/1
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@HWI-EAS443:3:82:209:307#0/1
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+HWI-EAS443:3:82:209:307#0/1
abab_¥aba_]aaaaa`^[R`a___a_]P^_____¥__
@HWI-EAS443:3:89:803:1720#0/1
GGACAGTATGGATAGCAAATAGTAGCATTGCCACAACACTAC
+HWI-EAS443:3:89:803:1720#0/1
Q_Sa^a_b`^aaZ^¥WZ_b__¥Vba]^¥`bba_Z^aa`_F
@HWI-EAS443:3:90:673:830#0/1
GGACAGTATGGATAGCAAATAGTAGCATTGCCACAACACTAC
+HWI-EAS443:3:90:673:830#0/1
`b```b_babbbb`_W^b^a¥``]aaTJZaRa[aba`_]`_
@HWI-EAS443:3:90:682:1269#0/1
GGACAGTATGGATAGCAAATAGTAGCATTGCCACAACACTAC
+HWI-EAS443:3:90:682:1269#0/1
aa`aaa]`aaa_`a__baa`a_Ya`_X_____]`aW```]
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a_ab`X___ZaZ`T``b`aa`_a^]_`aYPF]S_aRZ`0a
@HWI-EAS443:3:94:1003:293#0/1
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+HWI-EAS443:3:94:1003:293#0/1
aba_`b_aab__^]^¥aa_]`Q_a`]aa¥NWX^__W^^V
@HWI-EAS443:3:98:320:399#0/1
ACAGTATGGATAGCAAATAGTAGCATTGCCACAACACTACTT
+HWI-EAS443:3:98:320:399#0/1
a``a[aaab^`___a_`^`U_aX___`[]_`^`X__Y^_
@HWI-EAS443:3:18:1541:846#0/1
CAATGCTTCAATCCAGTGATCGTCGAGCTTGC GGAAAAGG
+HWI-EAS443:3:18:1541:846#0/1
`bbbbabaab`aaaabaaaa`a_`^^a```a¥]__`]__Z
@HWI-EAS443:3:33:1114:1958#0/1
CTTTGTGCGACAATGCTTCAATCCAATGATCGCCGAGCTT
+HWI-EAS443:3:33:1114:1958#0/1
¥_`^`a_____¥¥¥_Sa`ab``X`]a[^baa`UR`_TMFGV
@HWI-EAS443:3:37:604:1039#0/1
CTTTGTGCGACAATGCTTCAATCCAATGATCGCCGAGCTT
+HWI-EAS443:3:37:604:1039#0/1
`baa`X`b`_aa]aaaa`a^aab_Y_aTVb^G¥a]aaSP

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+HWI-EAS443:3:58:573:713#0/1
a`aaaa_]_a^aa]__[Y[Z`^ZYX]¥WZUURDKOFNVW
@HWI-EAS443:3:62:1621:1076#0/1
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+HWI-EAS443:3:62:1621:1076#0/1
O][V[QZV`_SaU¥S¥b¥a_^_b]`YR]RX¥^ZOR¥ab¥¥
@HWI-EAS443:3:81:1292:764#0/1
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+HWI-EAS443:3:81:1292:764#0/1
a_^JR¥_b^ba_b]Zb[¥baa`ababaV`aaa]aa^`GG_
@HWI-EAS443:3:44:345:456#0/1
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+HWI-EAS443:3:44:345:456#0/1
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@HWI-EAS443:3:60:643:458#0/1
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+HWI-EAS443:3:60:643:458#0/1
ababWbabaab`^a_aba`U¥b_a_U^b`a]^PD¥a`^ab
@HWI-EAS443:3:25:1411:1924#0/1
TGCATATTCTTTCATTGCCTTTTCCGCAAGCTCGACGATC
+HWI-EAS443:3:25:1411:1924#0/1
`SQ[VH]_aaS]¥X[T_[TYVY[]Z]S]TJMQ¥YXTZUZY
@HWI-EAS443:3:30:368:163#0/1
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+HWI-EAS443:3:30:368:163#0/1
Z_bba`]Z]QZ^`_QWWZ¥W^WZ`a`a¥ZT^W[___NX¥BB
@HWI-EAS443:3:76:1787:115#0/1
CTTCAATCCAATGATCGTCGAGCTTGCAGAAAAGGCAAAG
+HWI-EAS443:3:76:1787:115#0/1
abb[aabbaabbab`bb^baaXbba_bb`aaaba[`_ab
@HWI-EAS443:3:7:1524:284#0/1
GACCAAAGTCTCCCACCGAACTTCTCCAGCCTTGAAAACA
+HWI-EAS443:3:7:1524:284#0/1
^baababb`_baa_``QbaaUaaWa_¥aa_¥a`_^`_W_
@HWI-EAS443:3:88:969:1478#0/1
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+HWI-EAS443:3:88:969:1478#0/1
`V_b_b¥b^^¥_¥`a^a`W^RQb_``^_aVMY]TXUXI[
@HWI-EAS443:3:12:1723:787#0/1
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+HWI-EAS443:3:12:1723:787#0/1
_a`a^`a`____Y`_]_a]`ba^`¥`RW_]aaW^`a`^aba
@HWI-EAS443:3:14:1462:1196#0/1
CCAGGTTCCAGGTTGTCCCTAAGTGCCTGAACAATGAGAA
+HWI-EAS443:3:14:1462:1196#0/1
^_b`_]ZWbb_]Z_¥`^aabaW]^b`aa^``]S`aa
@HWI-EAS443:3:14:1700:1449#0/1
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+HWI-EAS443:3:14:1700:1449#0/1
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@HWI-EAS443:3:18:1207:1308#0/1
CGACCAAAGTCTCCCACCGAACTTCTCCAGCCTTGAAAAC
+HWI-EAS443:3:18:1207:1308#0/1
aabaabbaa`baaaaa_aa_^`_]a`_`]aaaa¥_]`
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CATATTCTTTCATTGCCTTTTCCGCAAGCTCGACGATCAT
+HWI-EAS443:3:18:492:191#0/1
a^aa_W_a¥a]`a__^aaa^aa`a`^_XYVU¥_]QRVZ_
@HWI-EAS443:3:24:1183:764#0/1
CTTTGTGCGACAATGCTTCAATCCAATGATCGTCGAGCTT
+HWI-EAS443:3:24:1183:764#0/1
abbb`bbaab^bbab`aaabbbabbababba`aaa```
@HWI-EAS443:3:24:1792:1368#0/1
CCAGGTTCCAGGTTGCCCTAAGTGCCTGAACAATGAGAA
+HWI-EAS443:3:24:1792:1368#0/1
aabbb^[^`_bb```aa_Vab^aVaXV`baaaababaaba
@HWI-EAS443:3:24:266:535#0/1
GTTTTCAAGGCTGGAGAAGTTCGGTGGGAGACTTTGGTCG
+HWI-EAS443:3:24:266:535#0/1
aaa_a`aaa__`ab_]V]`W]Z]_S_^_Z_U^`^aR¥VRG
@HWI-EAS443:3:25:74:1979#0/1
AAAGTTTTCAAGGCTGGAGAAGTTCGGTGGGAGACTTTGG
+HWI-EAS443:3:25:74:1979#0/1
`¥a`¥__aa`_¥]a```^^`__U^_Z_TV[WVVV[WV_HN
@HWI-EAS443:3:26:872:287#0/1
TTTTCAAGGCTGGAGAAGTTCGGTGGGAGACTTTGGTCGG
+HWI-EAS443:3:26:872:287#0/1
a`a`aaaSY``a]J^`_aW_Y[[^[[XV`¥VU¥Z]]NWSB
@HWI-EAS443:3:27:561:858#0/1
ACCAAAGTCTCCCACCGAACTTCTCCAGCCTTGAAAACCT
+HWI-EAS443:3:27:561:858#0/1
]abY¥V]`[]aaba`^R``[baH¥Y^YSXVa_ZaaSaa^a
@HWI-EAS443:3:28:548:1450#0/1
TGCTTCAATCCAATGATCGTCGAGCTTGCGGAAAAGGCAA
+HWI-EAS443:3:28:548:1450#0/1
abbaaaabaaba_abb`b`]aaaa^)`[`ba_aa```^`aa
@HWI-EAS443:3:29:505:551#0/1
AAAGTTTTCAAGGCTGGAGAAGTTCGGTGGGAGACTTTGG
+HWI-EAS443:3:29:505:551#0/1
]_K¥¥``^b_V_XSXUPUbOQ]XS`^RFR]L]TFXL`BBB
@HWI-EAS443:3:2:1417:652#0/1
AAAGTTTTCAAGGCTGGAGAAGTTCGGTGGGAGACTTTGG
+HWI-EAS443:3:2:1417:652#0/1
^`]_H¥ZWYW_aaaSa¥Q_[V_R^Y`_F]XXZHWWWsx^B
@HWI-EAS443:3:30:120:460#0/1
GGTTCCAGGTTGCCCTAAGTGCCTGAACAATGAGAAGCA
+HWI-EAS443:3:30:120:460#0/1
a`Z¥`a¥__Ta`_`a[I]`U```^a``a`¥T¥_^__[Y^

@HWI-EAS443:3:30:620:1068#0/1
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+HWI-EAS443:3:30:620:1068#0/1
ab`^Z`Wb]aba`[`T_Y]ZMUKRNBBSBBBBBBBBBBBB
@HWI-EAS443:3:31:481:1817#0/1
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+HWI-EAS443:3:31:481:1817#0/1
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@HWI-EAS443:3:32:901:1013#0/1
CATATTCTTTCATTGCCTTTTCCGCAAGCTCGACGATCAT
+HWI-EAS443:3:32:901:1013#0/1
abb_babbbbbbba``abbbaaa`ba_a```[[a`^^aa
@HWI-EAS443:3:34:1050:1196#0/1
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+HWI-EAS443:3:34:1050:1196#0/1
aa`aaaaaaaaaaaaaaaa`aa]`a_____^__`^^]_^WZ
@HWI-EAS443:3:34:1189:1290#0/1
CTTCAATCCAATGATCGTTCGAGCTTGCAGAAAAGGCAATG
+HWI-EAS443:3:34:1189:1290#0/1
aa`a_X¥Y^`_aZaT[_aY_PY]`_QHZXKW]X`QJYOYY
@HWI-EAS443:3:34:1426:1512#0/1
CATATTCTTTCATTGCCTTTTCCGCAAGCTCGACGATCAT
+HWI-EAS443:3:34:1426:1512#0/1
`_¥U^aa`b^aaba¥`_`aaa`W]]Z¥PX]Y¥ZXXUBBBB
@HWI-EAS443:3:35:1300:366#0/1
CCAAAGTCTCCACCGAACTTCTCCAGCCTTGAAAACCTT
+HWI-EAS443:3:35:1300:366#0/1
a`^T[WaU¥]`_¥]`__`_aa^^¥XV[_`]^Y`¥¥_`^`
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AAAGTTTTCAAGGCTGGAGAAGTTCGGTGGGAGACTTTGG
+HWI-EAS443:3:35:1375:295#0/1
aaab`_`a`¥Zaa``aaS`W^`[ZUZ`W`_`¥^WY¥^¥TY
@HWI-EAS443:3:39:1548:878#0/1
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+HWI-EAS443:3:39:1548:878#0/1
aa^aabaab_aa__`aaaa`]a__aa^`_aYY`_a__`^`
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+HWI-EAS443:3:45:830:1535#0/1
ab_¥abb`_UZ¥^bbabbaaaVa_^baa`¥P_a[b`J¥ZP
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+HWI-EAS443:3:48:1221:360#0/1
`XKZaKXa`_b^``]aba`¥¥_`]LYW`]XP^YU[WZ__Q
@HWI-EAS443:3:53:712:144#0/1
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+HWI-EAS443:3:53:712:144#0/1
aaa`Y`b[_]a`_aaba^`[aY[_`a_^Za^[_`Ya^]SK
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+HWI-EAS443:3:54:378:185#0/1
aa_`aa`__a[Y`UVTZZNU_YSSUU[_¥VYBBBBBBBBBB
@HWI-EAS443:3:55:1232:1541#0/1
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+HWI-EAS443:3:55:1232:1541#0/1
abaa``bababa`aaabbbabaaaab_a`a_bb_^```a
@HWI-EAS443:3:55:146:286#0/1
GGTTCCAGGTTGTCCCTAAGTGCCTGAACAATGAGAAGCA
+HWI-EAS443:3:55:146:286#0/1
ab^a_`¥`^`a^`_]_`_`^a^`_]_`][[_`Y`^`_`^`
@HWI-EAS443:3:59:13:1186#0/1
AAAGTTTTCAAGGCTGGAGAAGTTCGGTGGGAGACTTTGG
+HWI-EAS443:3:59:13:1186#0/1
ZXTGOZ^`]_a`a_¥RQUVLHW`T[IUBBBBBBBBBBBB
@HWI-EAS443:3:5:1386:432#0/1
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+HWI-EAS443:3:5:1386:432#0/1
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@HWI-EAS443:3:62:331:1354#0/1
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+HWI-EAS443:3:62:331:1354#0/1
Y`b¥¥`b`Ma]abba^¥b`bbb_aaaa_¥[] [a]__WHW[
@HWI-EAS443:3:62:508:1212#0/1
CCAGGTTCCAGGTTGTCCCTAAGTGCCTGAACAATGAGAA
+HWI-EAS443:3:62:508:1212#0/1
a_aa]^`_`aa]^aaZaaa`^a_`_a_aa_____^[__ [a`
@HWI-EAS443:3:62:515:203#0/1
GGTTCCAGGTTGTCCCTAAGTGCCTGAACAATGAGAAGCA
+HWI-EAS443:3:62:515:203#0/1
a`X]_XFX]V_] ^¥^]PNLYYYYYY]XVUQNQXVYTVXXV
@HWI-EAS443:3:64:1417:964#0/1
CAATGATCGTCGAGCTTGC GGAAAAGGCAATGAAAGAATA
+HWI-EAS443:3:64:1417:964#0/1
aaaa`aa`^` [b_b_`aa¥]]XT¥W`__aa_aY^`_]____
@HWI-EAS443:3:64:159:514#0/1
CCAGGTTCCAGGTTGTCCCTAAGTGCCTGAACAATGAGAA
+HWI-EAS443:3:64:159:514#0/1
aaa_a^aaaaaa^aa__aa`_aa^_a_aa^__a__`_`¥`
@HWI-EAS443:3:66:1294:1277#0/1
GCTTCAATCCAATGATCGTCGAGCTTGC GGAAAAGGCAAT
+HWI-EAS443:3:66:1294:1277#0/1
a]a_Y_W_ZX]Za`Z]^ZZXT^SX¥[UYZVZ^[Y[Z^UZ
@HWI-EAS443:3:6:926:827#0/1
GCCTTTTCCGCAAGCTCGACGATCATTGGATTGAAGCATT
+HWI-EAS443:3:6:926:827#0/1
aaaaaaaaa`aba[a^a__a_]X_``_`]^a_ [¥`R_`^`
@HWI-EAS443:3:70:999:406#0/1
AGGTTCCAGGTTGTCCCTAAGTGCCTGAACAATGAGAAGC
+HWI-EAS443:3:70:999:406#0/1
ab`PXab`abK`a¥I``Wb[]`aaY```VYbab` [ab_bY

@HWI-EAS443:3:71:370:1098#0/1
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+HWI-EAS443:3:71:370:1098#0/1
a^J^a]ababbabaaaa`aaaaaba`a`a_]a__]-¥__
@HWI-EAS443:3:72:710:1621#0/1
TGCCTTTTCCGCAAGCTCGACGATCATTGGATTGAAGCAT
+HWI-EAS443:3:72:710:1621#0/1
¥¥ab]babbbbbb`_¥T_]P_¥Z_[F[¥U_XW[GS¥V^OJ
@HWI-EAS443:3:73:57:1433#0/1
GCTTCTCATTGTTCAGGCACTTAGGGACAACCTGGAACCT
+HWI-EAS443:3:73:57:1433#0/1
abaababbabaaaabaaaabaaaa^_aaa`Taa^__]Z_a^
@HWI-EAS443:3:73:908:764#0/1
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+HWI-EAS443:3:73:908:764#0/1
aaaaa_aaaaa¥¥¥^_a_a`aa]a^_aa__^`aa^`a
@HWI-EAS443:3:76:346:51#0/1
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+HWI-EAS443:3:76:346:51#0/1
a`_^W_¥UZ_^VUWUUTYPVYJLMNNYV[TVSBBBBBBBB
@HWI-EAS443:3:77:556:995#0/1
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+HWI-EAS443:3:77:556:995#0/1
abbb_bbbbbabbbbbbbbbabbbbbbb^babaaa`aa`
@HWI-EAS443:3:80:796:633#0/1
CATTGCCTTTTCCGCAAGCTCGACGATCATTGGATTGAAG
+HWI-EAS443:3:80:796:633#0/1
abbbbaabbaaaa`b[Z`aab``a¥aY[aaaa^__`Z_]`
@HWI-EAS443:3:81:144:1970#0/1
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+HWI-EAS443:3:81:144:1970#0/1
aaa_^bY[a`_aaa_^_]a^Za_[`XZ[^ZY]]^[V
@HWI-EAS443:3:81:47:273#0/1
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+HWI-EAS443:3:81:47:273#0/1
`^TYJ[``aZa__^¥__a_UZ_¥___a[NYT`[[W[SVUG
@HWI-EAS443:3:82:1097:1327#0/1
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+HWI-EAS443:3:82:1097:1327#0/1
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+HWI-EAS443:3:82:444:681#0/1
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@HWI-EAS443:3:82:932:1397#0/1
TATTCTTTCATTGCCTTTTCCGCAAGCTCGACGATCATTG
+HWI-EAS443:3:82:932:1397#0/1
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+HWI-EAS443:3:85:1532:844#0/1
abab`aabbabaabaaaaTa^aa`a^aa_]ba_____a]
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+HWI-EAS443:3:85:1639:194#0/1
a_`bbbaZ`]b¥`^`a`_aaa`^_a^G_`aa^``a[____
@HWI-EAS443:3:85:996:297#0/1
CAATGCTTCAATCCAATGATCGTCGAGCTTGCAGAAAAGG
+HWI-EAS443:3:85:996:297#0/1
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CAGGTTCCAGGTTGCCCTAAGTGCCTGAACAATGAGAAG
+HWI-EAS443:3:89:1199:1345#0/1
aab_]babbbba`babbbbabbbabbbb_a`babbbbbb
@HWI-EAS443:3:93:552:227#0/1
GCTTCTCATTGTTCAAGCACTTAGGGACAACCTGGAACCT
+HWI-EAS443:3:93:552:227#0/1
a^ab``a¥aaa_^U^`_aa_a_`a_a^`_¥____Y¥_¥U_
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ACCAAAGTCTCCCACCGAATTCTCCAGCCTTGAAAATT
+HWI-EAS443:3:94:338:325#0/1
`abab```a`a`_a`abaa_`^a`¥R__a^`a__`_]`V
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+HWI-EAS443:3:95:1576:1068#0/1
abb_UNXOXaKSbbUbb][Vab`UabbaV_]_`Vb`bNM^
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+HWI-EAS443:3:96:962:785#0/1
aaa)`baa`)]`aaa_[a__[Wa`[[[_a]^`¥G¥B
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AAAGTTTTCAAGGCTGGAGAAGTTCGGTGGGAGACTTTGG
+HWI-EAS443:3:97:614:575#0/1
abaa¥aaaaa_b``_baZ`[_][^_aTW__Y`S¥____VY
@HWI-EAS443:3:99:1206:504#0/1
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+HWI-EAS443:3:99:1206:504#0/1
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@HWI-EAS443:3:36:743:497#0/1
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+HWI-EAS443:3:36:743:497#0/1
T_T^``]X_abbbbbbaaTOZb]bYWQUa]Z]IW^aaaaa
@HWI-EAS443:3:39:499:858#0/1
GACCCTTCATTGCTCATGTCAAAGGAAGGCACGATCGGGT
+HWI-EAS443:3:39:499:858#0/1
_¥`^¥R^]I____]Z`aX]Y]XZX]_QW¥]_aX`]QYO^[B
@HWI-EAS443:3:5:1787:496#0/1
GGGCTCTTGTCTCTGATATGTGGCATCATTGAGTTGGA
+HWI-EAS443:3:5:1787:496#0/1
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@HWI-EAS443:3:80:1142:1421#0/1
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+HWI-EAS443:3:80:1142:1421#0/1
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+HWI-EAS443:3:85:1531:832#0/1
_X[Y^^^[^PXPQZXVPKFVKX¥BBBBBBBBBBBBBBBBBB
@HWI-EAS443:3:10:287:95#0/1
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+HWI-EAS443:3:10:287:95#0/1
abbaba`^Haa__`a__¥_`a`]^¥aX]____SW`ZZZSXXW
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+HWI-EAS443:3:20:1778:1370#0/1
^a`b`bb`¥bbab`^_bb`TaY`_Ma`baXa^FV¥aba`a
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+HWI-EAS443:3:29:735:886#0/1
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+HWI-EAS443:3:32:1577:1739#0/1
a_¥K`a^`bbabY[a]^ab_` ``^0_aQFYa¥GV^Z^^a_
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+HWI-EAS443:3:77:1454:460#0/1
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+HWI-EAS443:3:81:780:927#0/1
a` `_ZH[aa_a`a`_a_a`aa___^Z_____]¥Z]]Z_^Z_
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+HWI-EAS443:3:29:789:1488#0/1
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+HWI-EAS443:3:49:1483:1061#0/1
^`a`a`_bb^aababaaaa_^^aa[[_a`[WDP¥_W]¥Y
@HWI-EAS443:3:94:1733:721#0/1
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+HWI-EAS443:3:99:609:1052#0/1
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@HWI-EAS443:3:2:992:715#0/1
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+HWI-EAS443:3:2:992:715#0/1
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+HWI-EAS443:3:100:1737:36#0/1
a^Z[a_¥^[``__^`¥^W¥¥`QU]¥XYOLRO^X^ZZX]B
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`¥`S`^`aa]bbbbaaaa`Ya[NM^Z`V^VWYLYX`]_W
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+HWI-EAS443:3:10:245:1302#0/1
a_aa¥_ba_a`aaa]`aaaa_a]`[a_a__¥_ZX_[^ZT
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+HWI-EAS443:3:10:399:659#0/1
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+HWI-EAS443:3:10:954:1126#0/1
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`^^`aa`_YZ¥JbY`]¥`U^XWa¥ZQ__YXY[XZUU^WR
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+HWI-EAS443:3:12:1382:1214#0/1
aaa`_aaaaaaa__aaaaa`aa`_aa^]_]_¥¥aZU`]^
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AAGCAGGCAAACCATTTGAATGGATGTCAATCCGACTCTA
+HWI-EAS443:3:13:1526:236#0/1
aab```a]a[a¥]^__`__a`^]]`VFV^_YY]ZZZZZY
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+HWI-EAS443:3:14:561:850#0/1
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@HWI-EAS443:3:16:169:1695#0/1
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+HWI-EAS443:3:16:169:1695#0/1
a¥a_a`a`bbabaa`aaa]``XSa^aXa`_]WXHTZ`^_
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+HWI-EAS443:3:17:1780:1163#0/1
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+HWI-EAS443:3:18:499:1485#0/1
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@HWI-EAS443:3:19:446:1672#0/1
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+HWI-EAS443:3:19:446:1672#0/1
`bb_aaab_ab``¥aa_a_¥^aaa`_a__`_R`a`Ua^aY
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+HWI-EAS443:3:19:736:1104#0/1
`b_¥`^a_]_a`aaaaaa^`^_aY]]`_a[]YX_`¥^¥
@HWI-EAS443:3:20:1207:234#0/1
GCAGGCAAACCATTTGAATGGATGTCAATCCGACTCTACT
+HWI-EAS443:3:20:1207:234#0/1
aaaaaabaa^a`aaaa_a`aa``a^^`_X¥`WY]Y^]W]
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+HWI-EAS443:3:20:805:833#0/1
a_S^Q¥Z_]__`__`aa`X_^ [XV]¥W_^^X]X_WR]]ZW
@HWI-EAS443:3:21:1664:1407#0/1
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+HWI-EAS443:3:21:1664:1407#0/1
a`XV[_XZaaaa`¥Za_a[`a]_`^`_H]_`^¥NV^VY]_X
@HWI-EAS443:3:21:276:1743#0/1
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+HWI-EAS443:3:21:276:1743#0/1
a[ab_aaa^aaaa`__aa__^a_]`^____Z^]YW_`^]_]
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+HWI-EAS443:3:23:217:538#0/1
ab^bb]aabb]aaabbb_aaaba`_a__aaa`_a^^a``_
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+HWI-EAS443:3:23:525:1326#0/1
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+HWI-EAS443:3:26:900:925#0/1
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+HWI-EAS443:3:29:1226:792#0/1
aaaaaaaa`aaaaaaaa`a^``aZ]]¥[[Q]Z¥a)`_¥__`
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+HWI-EAS443:3:29:1469:1187#0/1
aa[H^`]URaXX_ba_a^[ZOUT^ZZ^a`V[]YOYT[^
@HWI-EAS443:3:29:744:1509#0/1
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+HWI-EAS443:3:31:180:1013#0/1
aa`_]a`aV_aaaaa^aaa`G]_]_aa^)``Ya^[]_
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+HWI-EAS443:3:32:502:136#0/1
``babbabaaaaaaaa`aaa_aZ``a^^^¥Y[^`]_U^^_^
@HWI-EAS443:3:33:749:243#0/1
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+HWI-EAS443:3:33:749:243#0/1
a_bbbbaababaaaaaab`a_aaa^aWaaa^^Z_X]^]]]
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+HWI-EAS443:3:34:1426:1647#0/1
`abb¥^aTY^^U^aaabab__PWY¥[]¥XVG`XYVPZa``
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+HWI-EAS443:3:35:443:574#0/1
abbbbb_aaabaabaaaaaaaaaaa_¥]_^a`¥]_^a____
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+HWI-EAS443:3:35:481:45#0/1
aba_V`aa`]_aaa_`a___a``[^WVO[]]]^UX]^][

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`]Y_`^`X¥aa_```a``^a¥``]`WXY^VWT]]S_Z`V
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¥¥Q¥¥a^`aabbabb`[a_a`UVSaaQS__^_U`YY^aa`
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+HWI-EAS443:3:40:551:968#0/1
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+HWI-EAS443:3:46:10:1007#0/1
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+HWI-EAS443:3:47:1443:1104#0/1
a^aa_baa_a_]_]¥`_^a_]`Z`_V^]`_XZa]X^Z
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+HWI-EAS443:3:47:1584:1484#0/1
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+HWI-EAS443:3:48:476:1209#0/1
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+HWI-EAS443:3:49:1408:1012#0/1
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@HWI-EAS443:3:50:1679:1145#0/1
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@HWI-EAS443:3:50:296:1544#0/1
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+HWI-EAS443:3:50:296:1544#0/1
aba`bbbaa`bbbaaa`a`aba_aab^^a__a__aY¥`]
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@HWI-EAS443:3:55:336:28#0/1
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Y^`b`^VSS`ab`aXPQ]W^¥Z_a]W]a¥Q]aa^W¥WT]U
@HWI-EAS443:3:55:893:1537#0/1
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+HWI-EAS443:3:55:893:1537#0/1
abaa^baaabaaaaaba_a`^¥`a^]]aa``_[Y`]-[W
@HWI-EAS443:3:58:115:908#0/1
GCAGGCAAACCATTTGAATGGATGTCAATCCGACTCTACT
+HWI-EAS443:3:58:115:908#0/1
`ba`]bbaba`aaaa_aa`a`aa`^^_a[^^X^^`_[TZ
@HWI-EAS443:3:58:1772:1064#0/1
AGGCAAACCATTTGAATGGATGTCAATCCGACTCTACTTT
+HWI-EAS443:3:58:1772:1064#0/1
aa__a`a`aaaa`aaaa`_]`a`^^_]S_]`_`
@HWI-EAS443:3:58:365:115#0/1
AGGCAAACCATTTGAATGGATGTCAATCCGACTCTACTTT
+HWI-EAS443:3:58:365:115#0/1
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+HWI-EAS443:3:5:282:1491#0/1
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AAAGCAGGCAAACCATTTGAATGGATGTCAATCCGACTCT
+HWI-EAS443:3:60:1097:1172#0/1
aZJ`aaa[``^TYXZY`_dM_YX^VO¥BBBBBBBBBBBBB
@HWI-EAS443:3:62:186:850#0/1
GCAAACCATTTGAATGGATGTCAATCCGACTCTACTTTTC
+HWI-EAS443:3:62:186:850#0/1
`aWU¥ab_aX_¥_W_b^][`WXMZ¥VU[V¥]`[[X]YV^Y
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AGGCAAACCATTTGAATGGATGTCAATCCGACTCTACTTT
+HWI-EAS443:3:64:1152:1343#0/1
^ZX^X`]PZ`]aaaaa^``]VS`a_YV]HXa_`[]__a
@HWI-EAS443:3:64:1493:1615#0/1
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+HWI-EAS443:3:64:1493:1615#0/1
aaaaba]abbba_aaaa```a`a_`a]_^`_a_]Y`X__
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AAAGCAGGCAAACCATTTGAATGGATGTCAATCCGACTCT
+HWI-EAS443:3:64:1549:289#0/1
aba_aa_aaaa`^_abaaaaaaa````_a^^]Y^Z0[^_
@HWI-EAS443:3:65:1477:1297#0/1
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+HWI-EAS443:3:65:1477:1297#0/1
XH¥¥`Y`^TZ¥a__`__`]^_`_Y`][^]¥PS[]]_S
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+HWI-EAS443:3:65:716:1111#0/1
RU_¥L¥a^WUOZ¥SRP^P]U¥QW^QUU`XW]YTTQX[MTY
@HWI-EAS443:3:66:423:1452#0/1
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+HWI-EAS443:3:66:423:1452#0/1
`¥ZXbbaaaYZaa_[^]X_Ya_a[_¥_XU_V]ZNX[^¥[^
@HWI-EAS443:3:67:233:727#0/1
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+HWI-EAS443:3:67:233:727#0/1
XZ^¥^`a_a^RN`aa_`a[VW^_Z]LV]`^[[[WY¥
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+HWI-EAS443:3:68:1442:1030#0/1
aZUZ^`[JYWa]`a¥[V_][[¥_WLSTZ^¥Y^¥USSYH]^Z
@HWI-EAS443:3:68:1549:1994#0/1
AGGCAAACCATTTGAATGGATGTCAATCCGACTCTACTTT
+HWI-EAS443:3:68:1549:1994#0/1
aaa^aaaaaaaaaaa`aaa````]Z_`__^`]Y_W¥WW]^
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+HWI-EAS443:3:69:535:503#0/1
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+HWI-EAS443:3:6:1147:316#0/1
a_^X`_^M^__a__^a]]__WV_WZXV]YXTX¥XX]]^B
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+HWI-EAS443:3:6:1717:414#0/1
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+HWI-EAS443:3:6:294:1314#0/1
]I_abaaba`aa]_`^]__aaV^`_^¥W]]`a__`a_¥
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+HWI-EAS443:3:70:1511:580#0/1
aaaaaba`aaa^a_aabaaaba`_a^]``X]_^_^_
@HWI-EAS443:3:70:962:954#0/1
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+HWI-EAS443:3:70:962:954#0/1
aa_aa`^`a`aaaaaaaa`a^`_____^`_^`^`_
@HWI-EAS443:3:73:1095:1357#0/1
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+HWI-EAS443:3:73:1095:1357#0/1
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+HWI-EAS443:3:73:663:225#0/1
a_ab_]abaa`^aaaa`¥^^`_aaa¥`a`]a[``___`
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+HWI-EAS443:3:74:214:822#0/1
`aa^__a^Vaaa]aaa`^`_a`a`[_]_^_ZZX¥^]_Z[
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+HWI-EAS443:3:74:78:848#0/1
aa`]a¥b][^a__a`_a```a_]_U_``^__^RXO]
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+HWI-EAS443:3:75:812:1242#0/1
I¥__VY`ba^`a¥`bba`a`_`aabaa]S[Naa_b`Y^M^V

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^a^__Z_a]]b^`_^`a¥0Ua_ZV_[YX`[S^[QWQV]^
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@HWI-EAS443:3:76:637:1519#0/1
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+HWI-EAS443:3:76:637:1519#0/1
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+HWI-EAS443:3:77:1016:1211#0/1
a`]YQ^____`aa]YH`a`]ZT]``V[T]XZTZ¥U_`¥_X^
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@HWI-EAS443:3:78:887:861#0/1
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+HWI-EAS443:3:78:887:861#0/1
aZ]]Wa`¥` `[`a`a_aaa`^`_¥SQ[^a^W¥^]]_Z`
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+HWI-EAS443:3:79:1529:110#0/1
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+HWI-EAS443:3:79:414:510#0/1
aaaab``babaaa`aaaaa`_aa_a¥```_]¥PU]]__
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+HWI-EAS443:3:7:150:355#0/1
a]abR]aab^aa_____`a^`]^_a^a^`_]____aXZW_^]_
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+HWI-EAS443:3:81:1479:740#0/1
ab]^¥`ba_ba^a0`bbba_aaaaPNX^_aa^X[`W¥^Y_
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+HWI-EAS443:3:81:171:543#0/1
a`aaaaaaa`a_``_aT`a`a`Z^¥]_]__W^^]]^
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+HWI-EAS443:3:82:450:1027#0/1
a````¥NZ``^][`_`_Z¥`Z[U¥RUV^_RLQZ[W_]X[Z
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+HWI-EAS443:3:83:1032:910#0/1
`a`]Z_^aYSZa```__ZT[aa^]]¥VY]`[W_¥¥Y[_`X
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aa^aab_bbaS]]aaba__b``_aa^]a__^Xa_^`_a_W
@HWI-EAS443:3:87:488:874#0/1
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+HWI-EAS443:3:87:488:874#0/1
aba`aaabaa^aaa`a_^a`Y]Y0¥_`[^_]Z]```^_a_
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+HWI-EAS443:3:88:427:1086#0/1
a_]aaaaabaaaa^aaaaaa[``_`a`_Z`_`aY`_`
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`aQUP_a^Za_Za```bb`abXNZ]Z¥U]V_]^_Z^aa``
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+HWI-EAS443:3:88:720:155#0/1
aa_¥aaaa`]```aaa]__`__^`¥]_]V^^]X^]]ZW
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a_babaaa`baabb`baab_ab[abaa`_aaaa_aa]a_a
@HWI-EAS443:3:8:1142:1025#0/1
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+HWI-EAS443:3:8:1142:1025#0/1
a`aW[_]_X^aZVM_X^XT_PLVY]ZRQYQ[TVQLO]Y]
@HWI-EAS443:3:92:1000:499#0/1
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+HWI-EAS443:3:92:1000:499#0/1
abb`aaaaaaa`_¥aaaaa`_ab`aa`_a`a^`[_`_X¥¥]
@HWI-EAS443:3:94:282:528#0/1
AAAGCAGGCAAACCATTTGAATGGATGTCAATCCGACTCT
+HWI-EAS443:3:94:282:528#0/1
aaaa`]^`a`_]`_`_]a^`_a`_`_X¥¥^^`[][][]]
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a^^]abbX_aa`_`_a`aa`_`^aXUY`UY¥_W][X[`Z____
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+HWI-EAS443:3:16:1220:1312#0/1
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+HWI-EAS443:3:13:427:956#0/1
a`aaa_¥aX_aa^b_a`aaV__aaV_]`[_^aX¥¥`^_
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+HWI-EAS443:3:35:128:1835#0/1
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+HWI-EAS443:3:39:206:170#0/1
aabbaaabaa`^^`Za_^a_a^`_aVa`_`_¥^_W¥^^[[
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+HWI-EAS443:3:49:381:1952#0/1
aa`a]aa`a`_aaa`aVZ`¥a`aa`]Za¥a^^`]Y¥_a¥
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+HWI-EAS443:3:51:1479:1880#0/1
a`a`[aY`XVaa_aaaa¥`b`__^PZQ`__YaT¥`T^V
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abb^abaa]abaaab¥`aaa_a`a`_a¥`a_a¥`a`^^
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+HWI-EAS443:3:5:1229:1036#0/1
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+HWI-EAS443:3:73:571:1806#0/1
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@HWI-EAS443:3:16:456:1265#0/1
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+HWI-EAS443:3:16:456:1265#0/1
a^`bbb_ba`ba[`¥`a^Z__a`a`_`_] [¥a]^XY__
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+HWI-EAS443:3:20:693:1053#0/1
a_aaUaa]S`W]a]Xa_``YaXa_] ^`_`__¥_] ^Z_^`]
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+HWI-EAS443:3:29:527:1219#0/1
Y`XOZ]X_a]_PU]Q¥W__YQTa` [`]¥^]] ¥GEJXVXWB
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+HWI-EAS443:3:31:403:67#0/1
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+HWI-EAS443:3:42:515:1873#0/1
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^ZZY_¥_`a¥_VX^¥a^X¥W¥WG]Y[____[____]^XY]^S
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aa]¥^Z][_a`_`_`b]aa`_¥_aa_Z_W^ba^W[`aZWO
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aaa][ba_aaa``^¥^_a`a^`aa`aY`_^__]V]_]Y¥

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R__ab_`_¥aba``ba`aa`abaaa_b`baaaa``_N
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a`^_abaaabaaaa_¥]a_a`a___`_aa`a][¥`¥_X
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aQ`b^``Za`a__a_a¥a`a____[__^`¥_^`_]`^^]
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^YZ^PQZ[^``¥][`^¥¥^_[_VX`_]a]_^ZY¥UU]T
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a`a`aaaa`^^`^^`_^`¥_[^^^Y`^¥]`_^_Y^^W^Y
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S_¥I¥_R_b_bbZ]^UR[^U¥]Y_IOMZ]]XQ^^VU`aa

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a`Ya^_aaa`aa```aaa_aa`a````_`^aa¥¥^^_¥W`^
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a_`[^a_aaa`a]__^Y^a`]][_a`a`]^X^Z_^]]Y
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aa]aaaX]Waa_] [¥]_a`_a¥¥_`^]U_[^]Z]]`[O]T
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a_]aa]__aa_a`__`__^__^_]_^]]____]]^X]^
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a`aaaaaaaaaaa_aaaaaaaa`¥aa`aa[_```_____`¥T

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`[¥a`a`^Waa^X0]¥[[a[SU^Z^^^Ya[_]PZ^^FYOB
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a_aa¥_`¥a_a`__[aR_^`TU¥_]PV[^N^QWZ^[NPS
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a`aa``aaaa`a``_^`_aa`_]`_]`a``]_^a^a`
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a_aa]_aa`a``__`]^[__^^_]__^_^^]]]]^X^Z
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¥L_b]_aaa`^`aa[Z_Ya__^U^`[U^`_S]YYW^] ^
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a[^T__aW^_a^^`_Z^WW[¥`_`[¥`PHX¥¥__Z^Y_Z
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+HWI-EAS443:3:35:1066:784#0/1  
a\_aa`aaaaaa\_a`\_a`\_`a`````]`\_]\_]WZ]^Z^^\_^]

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¥\_0]\_X`babab`]`a]``¥`]]aa`a^a`aa\_\_`\_]`Y`  
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a`a`aaabbaaaa`a``\_\_a\_a`\_`[`Xaaaa`\_`X]S¥  
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+HWI-EAS443:3:35:727:778#0/1  
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^^ab]]aaaaaaaa`a``\_\_a¥\_\_Y`a^aa`ZZ\_^]`\_U  
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+HWI-EAS443:3:35:890:410#0/1  
]Y^\_]`[``a`aa`aa`]^`a`a\_a^^`¥Z\_\_¥]`\_]ZU  
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a`ab`ba^aa`aZ`¥M]a\_\_¥SRZPZ\_¥\_^aMUTWX¥XL]  
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a\_a`aa`\_aX`a¥``````\_`[``\_`^]PLS¥Z¥]\_^\_\_X  
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aZ]\_WZ\_aa`]a`\_a`^\_V^]aa\_a`[aQO[``^^¥\_\_^  
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+HWI-EAS443:3:37:1684:860#0/1  
a^`\_X\_a\_a`a`\_¥\_a¥ZWUa`\_\_Y^W^XKW¥\_\_\_\_^Y]^S  
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+HWI-EAS443:3:38:1655:211#0/1  
a\_ab`a`aba^][U^a\_Y`]\_^``]\_`[^ZWWZYOVZZYQ  
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a]`b\_\_aa\_aa^]]`a¥]¥a\_\_`^^\_\_X^\_\_]]\_\_ZY^^  
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a\_aaaaab\_aaa\_\_a\_a`\_]a^^\_^\_\_\_\_`^\_]^[[\_W  
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]J\_Z`¥`¥\_Y^]¥\_V^]a[`aab]aaa\_`^]a\_¥W^]`[  
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aab\_aaaaa\_a^`aa`\_\_a`a`]``\_Z`¥\_^^\_XU^\_X  
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+HWI-EAS443:3:43:1502:1218#0/1  
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+HWI-EAS443:3:44:563:128#0/1  
a^[\_`\_`\_\_^\_[^`\_]`^^\_]^\_¥XX\_]^[^XVV[XX[U  
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+HWI-EAS443:3:45:646:602#0/1  
`OXa]Z`¥`ZZ\_\_YUa^\_\_aa^`\_^YZ\_\_\_\_]]][¥U^TU]W

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+HWI-EAS443:3:46:1312:19#0/1  
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+HWI-EAS443:3:46:1317:1405#0/1  
a\_aba`a\_a`aa\_a`>`a`>`a`Z`\_\_UWY\_]`^V^W[]]  
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+HWI-EAS443:3:46:1756:361#0/1  
aX`XZ\_a\_\_a\_\_Z^^¥¥]Y]^^^]\_X]]^^]]UUZWYYY  
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+HWI-EAS443:3:47:823:810#0/1  
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+HWI-EAS443:3:48:1302:1823#0/1  
¥a^`bb`UZ]^a`a`X]\_Q¥aaa`a]ZUX\_NWQN¥¥LZ¥M  
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+HWI-EAS443:3:49:1476:56#0/1  
abL]Ua`^`^`[`aab`TZQV^S\_\_^\_TL[aa`b^`Q\_aaTZ  
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+HWI-EAS443:3:4:368:1385#0/1  
aa¥aKaaab`b\_`aa\_a]\_\_`a`^`a^^Sa]a]\_^]^^U\_  
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+HWI-EAS443:3:50:464:694#0/1  
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+HWI-EAS443:3:51:906:805#0/1  
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+HWI-EAS443:3:52:1118:1655#0/1  
a\_`aZ`aaa`Za^a\_\_\_^U\_\_`\_^`^X\_^``\_\_^]R]\_  
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+HWI-EAS443:3:52:1758:620#0/1  
Z]a`]abbbab\_aaaaZ^a^`aa]`\_R]\_aaaa¥R¥X¥`\_  
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+HWI-EAS443:3:52:841:167#0/1  
ab`\_G¥aaaa`a^a\_aaU`^R[\_a\_\_\_\_\_XZ\_]aUO[¥]  
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+HWI-EAS443:3:52:922:945#0/1  
a`a`aaa`a\_\_\_```\_]`\_\_`]\_\_^Y\_^`^\_Z]^`W^Y  
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+HWI-EAS443:3:52:979:945#0/1  
abbaa\_aaa`]¥aaa`ab\_a]\_\_```\_\_`\_ZT\_\_^`X¥^^  
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+HWI-EAS443:3:53:460:900#0/1  
`U^¥^`aa\_YWZ][][¥^\_ZZU[T¥XZP^]YT\_VOZ[^]T  
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+HWI-EAS443:3:53:637:191#0/1  
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+HWI-EAS443:3:53:9:710#0/1  
``aa]`\_aa`\_Za`\_a```^`^`a]\_\_^]`^Y`\_`\_^\_X^]  
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+HWI-EAS443:3:54:1735:1762#0/1  
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+HWI-EAS443:3:54:507:917#0/1  
abbaa`baaa`aa`a\_aa`aa``\_a`\_`^a`\_`\_`[`XX\_]`







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\_XX`[\_aa]aa`a\_a^^¥¥¥V^][^^[WY¥\_¥YT^]X¥P  
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+HWI-EAS443:3:64:370:491#0/1  
a\_[`Y\_aa`aa\_a^`\_`\_\_\_\_\_a^`^^`\_¥^^]]YZ\_Z  
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+HWI-EAS443:3:66:1209:355#0/1  
`P\_\_¥aa``aa`V[a\_Y\_W]Z[\_ZV`[YY][`[WUWLW^  
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+HWI-EAS443:3:66:1565:1936#0/1  
aX[aZ`XU^`V`Z¥¥^N]^\_X^W^\_^]^[\_XXWGG]]  
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+HWI-EAS443:3:66:294:1842#0/1  
`¥\_\_\_`aaa`X`¥^a[aaa\_a\_\_^^]WZa`a]]Y\_\_]a^  
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^OL\_NW]]\_U¥Y[¥MZ\_UUWWP^¥VSUOPMMKXYQYWPTT  
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+HWI-EAS443:3:67:1237:1494#0/1  
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a\_``^^\_a\_aaa\_a]^^]`\_a]\_\_^\_]`^\_\_\_^^^ZX]Z  
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+HWI-EAS443:3:68:500:246#0/1  
ZS\_0Q¥a^X`b\_\_¥Ya\_a```X\_]b\_^Za]]aa]`¥`ZDY  
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a`^\_GZa`¥aaRaa`aaaa¥0`a\_a`X\_\_a\_^]]^aY¥^  
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a`a`a``¥`¥a`a^`¥ab`]`a^Zaa``^`[U`^XV[V^^  
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a]^`\_\_^`\_\_[]¥a\_\_^WZ^^^a`^^Z]\_[YYYYZVYYT  
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aaaa¥Q¥]^`PQXQ]\_aaaa`[]a\_WVWT]LN\_]W[KHV`  
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^W[Z`a`^`baa¥^Z]¥a¥`¥[W^^`^^^^UX^[[`^\_  
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a\_aa^aaaaab\_a`\_\_`]a\_a`a`a`a]a`\_^X`YX^X  
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+HWI-EAS443:3:74:821:1802#0/1  
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+HWI-EAS443:3:77:1342:475#0/1  
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+HWI-EAS443:3:77:979:273#0/1  
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+HWI-EAS443:3:78:1613:1664#0/1  
a¥W\_]`\_ba`\_`[\_\_\_¥^ZYV\_]PYXWU]\_\_\_]Z^XVX¥]  
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+HWI-EAS443:3:78:397:143#0/1  
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+HWI-EAS443:3:78:923:362#0/1  
a`^^aa^a\_a\_a\_\_\_^`\_\_\_]\_\_\_]\_^\_\_\_\_`^Z\_^X]Z  
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aYaa^[`baab\_a\_aa\_a`]\_a`a`\_a\_aa\_\_a`\_^]Xa`  
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+HWI-EAS443:3:81:314:88#0/1  
a]aa]\_`\_aa\_\_`^a`\_\_^\_\_^`^\_\_^Z^]`^Z`\_`^Z`]]  
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+HWI-EAS443:3:81:676:634#0/1  
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+HWI-EAS443:3:81:938:571#0/1  
a\_\_a^\_aba^a`a]aaa\_`\_`a`a`^`\_Y^\_\_^`\_`a\_ZV`\_`  
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+HWI-EAS443:3:83:205:751#0/1  
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+HWI-EAS443:3:83:345:246#0/1  
a\_\_aaaaaa`\_`Za^\_W`^`\_`\_`\_`^]`^]`X]]XX`N  
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+HWI-EAS443:3:84:1305:233#0/1  
a\_aa\_`baaa`\_`\_`\_`aX\_S]\_`\_`a^aa`V]^`\_`^`[ZZ]]  
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+HWI-EAS443:3:84:132:2008#0/1  
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+HWI-EAS443:3:84:956:1324#0/1  
O\_]\_a`abZY`¥¥¥U`\_`T`b]b\_bUUbb`\_`¥TR`¥b\_bb`\_`b`  
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GTAGTTTTTTACTCTAGCTCTATGTTGACAAAATGACCAT  
+HWI-EAS443:3:85:1142:431#0/1  
a`¥`a^`\_a`\_`a`^`V`\_`]Y][^`^`^`^`¥`\_`\_`\_`\_`\_`XV^^  
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+HWI-EAS443:3:85:698:1445#0/1  
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+HWI-EAS443:3:85:97:1178#0/1  
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+HWI-EAS443:3:86:1090:915#0/1  
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@HWI-EAS443:3:86:1351:1430#0/1  
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+HWI-EAS443:3:86:1351:1430#0/1  
a¥^\_a`¥aa\_SY\_a\_\_aa\_a\_\_\_\_a\_]`\_\_`^^]X\_¥W]X  
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+HWI-EAS443:3:86:1531:1455#0/1  
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+HWI-EAS443:3:86:1610:1788#0/1  
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+HWI-EAS443:3:86:814:758#0/1  
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+HWI-EAS443:3:87:1037:1335#0/1  
a[aa`a`aa`a]a`\_a`X`[aaaa]W^[¥^\_aa]\_¥Z\_\_  
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+HWI-EAS443:3:87:1625:1044#0/1  
a[^aPabb`baVa`aa\_\_a]`aaa``[`Z``^a`a^UT^a  
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TCTAGCTCTATGTTGACAAAATGACCATCGTCAACATCCA  
+HWI-EAS443:3:87:487:1610#0/1  
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abb`a`b\_a\_a\_`abXbaba\_aa`]abba`aaaaa\_`a`  
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+HWI-EAS443:3:88:898:977#0/1  
`abbV^`baab^aaaaa]aaaa`a\_aaa\_aa`^`\_`^`^`  
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+HWI-EAS443:3:89:1311:647#0/1  
^TYa\_[]`¥a\_YVYUVa\_`Y\_`\_`WaW^W^Z]\_¥X^OKZ\_  
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+HWI-EAS443:3:89:497:102#0/1  
a\_ab\_aaaaa\_`]aaa\_\_\_\_a\_a`^`\_`Z]\_`^`^^`\_`^W^`



@HWI-EAS443:3:89:639:1834#0/1  
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a\_ab\_aaaaaaaaab\_a\_aaaa\_aaa`aba``\_aa\_a`  
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+HWI-EAS443:3:91:1501:421#0/1  
V\_0¥bbabZ`aabbabb\_a\_aabb¥WNabVYLSSYVa^\_T  
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+HWI-EAS443:3:91:864:407#0/1  
aQTY\_^\_\_S]\_YUXY¥[WLX]]][UXX]^S]YY][VXVX  
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+HWI-EAS443:3:92:180:673#0/1  
^\_aaababaaaa`bbbaa`ba`baaaaaabaa``aa`a\_\_  
@HWI-EAS443:3:93:1160:402#0/1  
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+HWI-EAS443:3:93:1160:402#0/1  
aZT\_LW]\_\_`]P¥¥\_`aVZN^^¥[HZYWVOOJVW\_BBBBB  
@HWI-EAS443:3:93:1556:369#0/1  
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+HWI-EAS443:3:93:1556:369#0/1  
Y`^ba]^¥`V^a^VGZ\_aa`\_Z]V[\_\_\_\_^YW\_Z¥XNZBBB  
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+HWI-EAS443:3:93:1577:1081#0/1  
a^a`Vaaaa`a^a\_aaa]\_]a^aa^`^^^^\_\_`\_`^W[\_a  
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+HWI-EAS443:3:93:674:1325#0/1  
a^ab^\_aaaa`a\_\_aa`\_\_^\_`a`\_\_X]Y``a^\_^]YY`\_  
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+HWI-EAS443:3:94:1304:821#0/1  
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+HWI-EAS443:3:94:1401:256#0/1  
a]ab\_]aa\_`^¥¥\_\_`Sa¥\_¥a\_¥^`]U]^]^^¥^NGR]  
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+HWI-EAS443:3:94:208:151#0/1  
a^\_`a`\_a^\_`^¥\_`^Y\_\_^^]`^][^][^][W[X  
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+HWI-EAS443:3:95:347:982#0/1  
a^a^a`\_a[`a`a`¥\_\_`\_aa^`\_`^\_\_`\_\_^\_\_Za\_]\_X  
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+HWI-EAS443:3:96:1213:1549#0/1  
a\_b^¥^aaba`\_U`\_\_a^\_\_`aPX`[Z[`^\_a`[[^]YV  
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+HWI-EAS443:3:96:1271:561#0/1  
a]Z\_PX¥\_ab`P`\_a[SJaW[X][WPWXW]W¥\_¥V^W[BB  
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+HWI-EAS443:3:96:1454:1476#0/1  
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+HWI-EAS443:3:97:428:18#0/1  
¥HZ`T¥^`\_\_R\_[TXaZ\_Z\_]\_a[[[YXXX¥\_NQLQY  
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+HWI-EAS443:3:97:605:422#0/1  
aU\_a^`aaaa¥\_\_`\_a\_\_[a][`¥\_`^\_V]`\_\_\_\_^YY]]  
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+HWI-EAS443:3:97:639:932#0/1  
^NW\_Za`aa\_\_\_\_`YY`\_V\_[\_\_\_\_Y\_]WO][\_]\_\_[W][\_`^  
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+HWI-EAS443:3:98:1285:607#0/1  
a`\_b]\_aaaa\_a¥aa`¥a^a\_aa^\_a^^`a^^aa\_Y[\_`  
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+HWI-EAS443:3:98:379:1667#0/1  
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+HWI-EAS443:3:99:366:1306#0/1  
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+HWI-EAS443:3:99:435:367#0/1  
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+HWI-EAS443:3:9:423:1220#0/1  
a\_a`TQXa]W]¥P]W¥`\_¥\_\_\_YY¥TTZ^\_VPY¥^]¥V^Z  
@HWI-EAS443:3:88:1118:980#0/1  
GTAGTTTTTACTCTAGCTCTATGTTGGCAAAAATGACCAT  
+HWI-EAS443:3:88:1118:980#0/1  
a^^`\_¥]¥Za`\_`\_¥Z`YYY`\_\_[Y¥Ya]`]]\_Y\_\_UZ^^  
@HWI-EAS443:3:100:1133:527#0/1  
GGCGTCATATACAACAGGATGGGAACAGTGACCACAGAAG  
+HWI-EAS443:3:100:1133:527#0/1  
aa0Jaa`a\_a^)`\_`]V^[aaaa[\_\_\_Z\_G`\_T\_\_\_^a¥BB  
@HWI-EAS443:3:61:1375:273#0/1  
CAGCCTTCTGTGGTCACTGTTCCCATCCTGTTGTATATGA  
+HWI-EAS443:3:61:1375:273#0/1  
H[ `[0\_b\_\_\_]`abb\_a`\_`b`b`Z`b`\_`^]b\_K¥bb]]  
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+HWI-EAS443:3:85:420:1934#0/1  
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+HWI-EAS443:3:17:35:1002#0/1  
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+HWI-EAS443:3:23:1414:1058#0/1  
^\_]¥b`bYbab]\_ba]a`aaQZ^¥`\_[X]¥X^UPH]¥¥¥  
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+HWI-EAS443:3:23:693:621#0/1  
aaa`\_a\_a`aa`\_a\_`\_\_^R\_`\_`\_ZaZ^[\_`^\_]Z^^  
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+HWI-EAS443:3:25:1773:1985#0/1  
ab`bbaaaaaabb[a¥^a\_\_aaaa]`\_`X\_W^Xa^`\_U]^  
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+HWI-EAS443:3:28:1536:1534#0/1  
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+HWI-EAS443:3:39:1114:1423#0/1  
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+HWI-EAS443:3:39:1320:1082#0/1  
`````\_`a```a^`aaaa\_^]W\_[¥`\_`a\_b\_]aa`\_\_\_\_]  
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+HWI-EAS443:3:39:695:208#0/1
aba]`aaa]^`__^`_[Z]]a][WW_Y`U]V]^ZZ[Y^V
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AGCCATTCCATGAGAGCCTCAAGATCTGTGTTCTTTCCTG
+HWI-EAS443:3:42:71:713#0/1
^abaa`abba]aa]aaaa`aX^`__`aa^a_`_`a_`_`^`
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+HWI-EAS443:3:44:1448:1835#0/1
^Za`_a[QZX^aUUUY[Y_`_`[[X]X`_`Ua]VfV_]VVY¥
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+HWI-EAS443:3:45:111:807#0/1
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@HWI-EAS443:3:48:884:809#0/1
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+HWI-EAS443:3:55:82:1272#0/1
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+HWI-EAS443:3:58:728:1149#0/1
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+HWI-EAS443:3:61:1424:1217#0/1
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@HWI-EAS443:3:63:897:310#0/1
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+HWI-EAS443:3:63:897:310#0/1
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+HWI-EAS443:3:64:741:17#0/1
aa_aa`_```a¥`^_^__Y]^_^^^__]`_]`_^V]¥^V
@HWI-EAS443:3:67:1354:496#0/1
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+HWI-EAS443:3:67:1354:496#0/1
aaa^ab[`aa_]a__^`_a_a^a^]`aX_X_]_aa]V]_
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+HWI-EAS443:3:67:1610:1176#0/1
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a]]aaaa]XU^]aaZ_Y[`a]`_`S_X__`_`a`]^^__^
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@HWI-EAS443:3:78:1037:674#0/1
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+HWI-EAS443:3:78:1037:674#0/1
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+HWI-EAS443:3:82:1180:695#0/1
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@HWI-EAS443:3:83:424:1876#0/1
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+HWI-EAS443:3:83:424:1876#0/1
_P[a`a`aaaY¥VYYU`a^`___^¥__aU`] [_`^Ya`^^
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+HWI-EAS443:3:83:502:1984#0/1
a_a`aaWaUVPZ[^[S¥aV_QPZaURV][¥[^_aVL¥_[
@HWI-EAS443:3:84:1638:1413#0/1
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+HWI-EAS443:3:84:1638:1413#0/1
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@HWI-EAS443:3:85:1579:1296#0/1
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+HWI-EAS443:3:85:1579:1296#0/1
_¥_b`_b^TZ`aa]S[W_¥_R^][]`S_TW`a]`__^`
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+HWI-EAS443:3:89:912:451#0/1
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@HWI-EAS443:3:91:1221:1962#0/1
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+HWI-EAS443:3:91:1221:1962#0/1
aaa^a¥]a_a]a__^`_`^¥_`[_0`_ZaZ_Z_Z_^Z[_
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+HWI-EAS443:3:93:840:91#0/1
_QVaaaaY_YaY[a^^^` [`YbX^¥]W^_]`Z[[ZVWX_
@HWI-EAS443:3:95:1082:1422#0/1
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+HWI-EAS443:3:95:1082:1422#0/1
abb`aa]b^ZZ_b[`aab` ``bVb_bbZb_ba^NOa[`b_
@HWI-EAS443:3:95:1352:661#0/1
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+HWI-EAS443:3:95:1352:661#0/1
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+HWI-EAS443:3:48:354:1148#0/1
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@HWI-EAS443:3:75:1683:159#0/1
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+HWI-EAS443:3:75:1683:159#0/1
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+HWI-EAS443:3:5:1027:84#0/1
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@HWI-EAS443:3:98:1612:453#0/1
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+HWI-EAS443:3:8:1358:1016#0/1
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+HWI-EAS443:3:67:1733:850#0/1
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+HWI-EAS443:3:98:1017:1338#0/1
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@HWI-EAS443:3:51:886:1567#0/1
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+HWI-EAS443:3:51:886:1567#0/1
Y_b^W`a_bba_Y]aaaa`[a`]a_H^S_aZa]ab_b`BB
@HWI-EAS443:3:52:624:326#0/1
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+HWI-EAS443:3:52:624:326#0/1
Zb_L[_a]`S]aSa_QXZ¥WN_aSa`^P¥`[FQQH¥NPOF
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aaa_U_IW^R`]UR^^]¥]`aa]¥[X`BBBBBBBBBBBB
@HWI-EAS443:3:100:160:307#0/1
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+HWI-EAS443:3:100:160:307#0/1
a`a]Y`T_a```b_Y_aa_abV^aa_`]^_V^W]]ZBBBB
@HWI-EAS443:3:11:228:166#0/1
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+HWI-EAS443:3:11:228:166#0/1
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+HWI-EAS443:3:27:1383:1042#0/1
^bbabb_b[aaaba``abaaabaaa__`ab__aa`Q^^__
@HWI-EAS443:3:28:445:486#0/1
CACCAATCCACTAATCAGGCATGAAAACAGAATGGTGCTG
+HWI-EAS443:3:28:445:486#0/1
¥W`W]XX`_Z_a^^XZ`]XX`¥¥_¥SP[_`ZYRWUDV^Y¥
@HWI-EAS443:3:33:310:1439#0/1
CACCAATCCACTAATCAGGCATGAAAACAGAATGGTGCTG
+HWI-EAS443:3:33:310:1439#0/1
aaab_Y¥aaaaa`__`_`_aa`_¥I[¥```]`_Y[VU¥^^¥
@HWI-EAS443:3:36:282:1886#0/1
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+HWI-EAS443:3:36:282:1886#0/1
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+HWI-EAS443:3:37:277:1752#0/1
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@HWI-EAS443:3:40:1565:725#0/1
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+HWI-EAS443:3:40:1565:725#0/1
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@HWI-EAS443:3:43:1060:1526#0/1
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+HWI-EAS443:3:43:1060:1526#0/1
a`__abbbbaabbabbbaabb__bbabaaa_aaaa`aa^`
@HWI-EAS443:3:43:1255:785#0/1
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+HWI-EAS443:3:43:1255:785#0/1
`a^Vva`SZS[TUT¥_W^__aa]TaT_[]^W[`_ZTXZ`]
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+HWI-EAS443:3:4:1005:558#0/1
a_¥``_aaa_^a]a`_a^_W^¥_aa_____X``____^`X`H
@HWI-EAS443:3:50:1714:1652#0/1
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+HWI-EAS443:3:50:1714:1652#0/1
`_`U^PO_T`¥b]XW_]U_]¥R`aJQZVL[] [PX¥aZab
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+HWI-EAS443:3:50:227:162#0/1
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+HWI-EAS443:3:51:1290:2028#0/1
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+HWI-EAS443:3:56:585:57#0/1
a^`_`^`_]X`___aX]^_]X_]X__V^^V_Y_]Y^[YY
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@HWI-EAS443:3:5:853:1272#0/1
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U_aT^`a¥`]_]`b¥`^¥aabb`_bb^abbbbbV`[`b
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+HWI-EAS443:3:63:1020:1672#0/1
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+HWI-EAS443:3:63:242:1294#0/1
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+HWI-EAS443:3:63:600:1589#0/1
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@HWI-EAS443:3:66:56:1693#0/1
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+HWI-EAS443:3:66:56:1693#0/1
aaa`]``¥¥^[¥^[[`YU`_^^_[TZ¥^T^XWWW]VU
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+HWI-EAS443:3:67:1133:1072#0/1
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@HWI-EAS443:3:68:780:742#0/1
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+HWI-EAS443:3:68:780:742#0/1
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+HWI-EAS443:3:6:968:1309#0/1
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@HWI-EAS443:3:75:783:1364#0/1
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+HWI-EAS443:3:75:783:1364#0/1
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@HWI-EAS443:3:81:960:76#0/1
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+HWI-EAS443:3:81:960:76#0/1
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@HWI-EAS443:3:85:726:539#0/1
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@HWI-EAS443:3:86:259:339#0/1
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+HWI-EAS443:3:86:259:339#0/1
aa^_Zaba_a_a_^`R^`_V`_ZRTQ¥Z[SNS¥_N_]W]
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+HWI-EAS443:3:87:1128:1734#0/1
abb`babbb]ba]ab[a¥S¥^ba_^a`^baaabXGRaW¥_
@HWI-EAS443:3:91:1663:341#0/1
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+HWI-EAS443:3:91:1663:341#0/1
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+HWI-EAS443:3:9:993:765#0/1
a`_]Q]`^¥aaaa`ab`X^_^__^`a`_a`SaY`a
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+HWI-EAS443:3:100:1355:1796#0/1
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+HWI-EAS443:3:21:1429:493#0/1
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+HWI-EAS443:3:22:946:206#0/1
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+HWI-EAS443:3:95:1015:1649#0/1
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+HWI-EAS443:3:97:762:904#0/1
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+HWI-EAS443:3:26:1156:552#0/1
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+HWI-EAS443:3:47:1631:1778#0/1
aaaUDT¥a]_]_XX_[Y]_aZV_VPJZVZRRY[UJLS¥TZZ
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@HWI-EAS443:3:11:677:1142#0/1
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+HWI-EAS443:3:11:677:1142#0/1
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@HWI-EAS443:3:13:382:141#0/1
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+HWI-EAS443:3:13:382:141#0/1
aaaaa[][_a]¥]_]aa` [aYZ_V_W^_]_YUWV]R]]_U
@HWI-EAS443:3:15:1156:1826#0/1
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+HWI-EAS443:3:15:1156:1826#0/1
¥_` `R[aX¥` `abaZaba[aba]ZVb^Y`WRW_bbbaZa
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+HWI-EAS443:3:15:1439:276#0/1
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+HWI-EAS443:3:15:1710:707#0/1
aa]_` `]b` ___^] ^abb_aa¥`aa`aaab_`X¥`aab_W
@HWI-EAS443:3:17:1182:315#0/1
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+HWI-EAS443:3:17:1182:315#0/1
a` `a`aaa_[]_]RVa[_aY]_]ZV^_]XX]UN]Y^]YR[

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+HWI-EAS443:3:17:1253:634#0/1
^_SbabRbTa]a_b[¥a¥¥aQGY_¥H]YNNRF^WMY^MQS
@HWI-EAS443:3:19:620:567#0/1
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+HWI-EAS443:3:19:620:567#0/1
aabaaa`^baabaaa__aa` `aaa^_^`aaU`aa_`____`
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+HWI-EAS443:3:20:544:1903#0/1
Z_bbbababb_aa[baabba`¥`bb_b[_a`a_]IKb_ab
@HWI-EAS443:3:21:1104:890#0/1
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+HWI-EAS443:3:21:1104:890#0/1
abbabbbab`a_bbaaaa_aaaaba__a_¥]a`Raaa`_[
@HWI-EAS443:3:27:196:1714#0/1
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+HWI-EAS443:3:27:196:1714#0/1
aabbbbb`^abbbbaabbab`abbbba_abaaa_bb`ab
@HWI-EAS443:3:28:828:641#0/1
CTTTCAGACCAGCACTGGAGCTAGGATGAGTCCCAATAGT
+HWI-EAS443:3:28:828:641#0/1
abbbabaabbbabbabaaababa` `aa`aaa`baaab]
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+HWI-EAS443:3:29:519:704#0/1
abaabbb`bbb`a`aaa`X[a]aaa[`__a]aa`[`] [¥^
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+HWI-EAS443:3:30:1499:1098#0/1
Z¥ZaYGRa_X]^__`a_`Y][a]T¥_Z¥Q_VQ[R¥_YV
@HWI-EAS443:3:30:328:520#0/1
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+HWI-EAS443:3:30:328:520#0/1
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+HWI-EAS443:3:30:475:1932#0/1
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+HWI-EAS443:3:31:1239:1331#0/1
ab[aaaaaXZ^Yaa_b____[Y`Y]X]YS^QY^V`_^a_Y]
@HWI-EAS443:3:33:260:932#0/1
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+HWI-EAS443:3:33:260:932#0/1
a^baYaiaaaaa`K`aabaaaa^aa` `Z^`Z^`WX]_^
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`ZP`b_^aa`^a]`T```a__`_a_[¥¥a^_a^V]]YH¥
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+HWI-EAS443:3:96:1772:1289#0/1
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+HWI-EAS443:3:26:732:1473#0/1
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@HWI-EAS443:3:17:1197:889#0/1
AATGGCTAAAGACAAGACCAATCTTGTCACCTCTGACTAA
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+HWI-EAS443:3:48:1114:515#0/1
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+HWI-EAS443:3:70:229:1424#0/1
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+HWI-EAS443:3:75:397:1351#0/1
a[`XG]`baaa`aa^`Zabaaa`aa`aa`aa```^`][^_

@HWI-EAS443:3:78:1391:1420#0/1
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+HWI-EAS443:3:78:1391:1420#0/1
aYVWSQ¥0`La_`_a`_^Z`__^]``[QG[¥SPG^X]T_
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]Xbbb_YJ_UNY^`YY¥a`ZQ^SZ][SVSZW_Za]K¥^J[
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+HWI-EAS443:3:88:238:1345#0/1
T`aL][ba__a]`Z``]b`b^abXb_aaW¥L]¥]_``ZT`
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^b]bb__aa`aa`a`Z```a``a`^X]S_____Wa_aZZ[
@HWI-EAS443:3:8:48:821#0/1
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+HWI-EAS443:3:8:48:821#0/1
aa]bb¥a_V¥aa^a`[`aa_____]`X`[W[`Z¥¥¥_`^Z]_
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+HWI-EAS443:3:90:453:514#0/1
[`ab]_]aX^b_a_[Z^aaaa^aaa_aaa_`a]^`a`_`]
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+HWI-EAS443:3:94:1123:1278#0/1
aaa`b`a_aaaaaa^aaaba_aaa`aa_a_a]Z`^`__
@HWI-EAS443:3:94:874:1295#0/1
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+HWI-EAS443:3:94:874:1295#0/1
aa````_aaZ]aa_a`_X_aaaZN¥a`a`__`a_____¥M
@HWI-EAS443:3:9:55:1685#0/1
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+HWI-EAS443:3:9:55:1685#0/1
¥b`][^^aba]aaaYa_aaaa^a¥[aa^aZ`_XaU^]_`_
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+HWI-EAS443:3:50:1013:1128#0/1
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¥YS`¥_`ZZLZ]_M[_a[aa^a`ZYT[aa`^]aIa_ZPU
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a`^`b_^^abaaa^aaaaaaaaaaaaa`a`^`a`a__a`
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¥Waa` `[bba`aYa`a]`aSa_a¥R^YLVaa[]^_]Y[
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abbaba`_aaSaa^aaaaaa_aa`a`_Z_`^`_`_¥Z`^W
@HWI-EAS443:3:42:1573:371#0/1
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+HWI-EAS443:3:42:1573:371#0/1
`a^YWWYVXX_H]TZXRW]V¥SWWS^O^]UWZOZ` `ZOL

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_abbba^^U]`aaabbbaa`_a_a^¥^Y`[^a¥YX]Y_Y
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+HWI-EAS443:3:48:1535:1443#0/1
Y¥[^`Z^a_bb^aa^`_a`^aaabaaZ]aa^[`][X[___
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+HWI-EAS443:3:52:966:652#0/1
aaaa¥b_]ab]ab`a]bbaaab_aaaa__aa`aaa^]___
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@HWI-EAS443:3:56:244:787#0/1
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`b¥aaaaaaaaXa`aaaaa`aaaa`aa`_aa_aa``___
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Y_a`[^a^`^PYa``[ababaaba^a_aY0[]__`[[___
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+HWI-EAS443:3:65:1525:1063#0/1
`^VZ¥`_]V`a^__`^^_]^^^[^aXX]^_^YU]
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+HWI-EAS443:3:76:1554:1425#0/1
^a`a`Y`Ga_aaabb`¥[R]a`b`a]_aaX_`WP`V^U
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+HWI-EAS443:3:76:505:831#0/1
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^¥aba`ba¥_]J`baaabaa`a`[^`^`a¥__aaaa¥Ua
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]`babb_bbbbb_`b`a`bb`^^¥`]abaa`[ba_aa`aa
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`aXPZa¥G]a`G`]a[_]a]__Y]]^XUUR_ZBBBBBBB
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+HWI-EAS443:3:97:181:535#0/1
S____^`Ya¥^Y_aZa_I¥T]^a^^`_b]Va`a^`]YYT]
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+HWI-EAS443:3:29:68:1564#0/1
aaaa_aaa_`[^`^SY__¥]T][X`Y^X__^`^`][^Z[Y
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+HWI-EAS443:3:69:879:1392#0/1
a``UF[]¥[VZZ_]Paaa`a`U]`_[]]]__^SWa_¥P
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+HWI-EAS443:3:50:1159:140#0/1
abab_ababaaabaaba`aa_a_aa`aaaa_a``_a_a¥`]
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abbb^abbbbabaababb`abbaaaabaaa^^`a`aaaa
@HWI-EAS443:3:68:861:244#0/1
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aaaa``a`aa¥```_aaa`_aa_aaa`]`_`````^U_`
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abbaabbaabab`_`aaa`aaa`aa``_`]a`aa`a__^X
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+HWI-EAS443:3:46:1436:752#0/1
a`YYYaa^_WWZRaa_[]]``_T¥^`_X]`¥`XV^^^[]Q]
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+HWI-EAS443:3:75:766:1027#0/1
]b^]`b__a¥_Waa_[]`baa_Y[]`aaaabaaaa````P
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]¥W__a_]`_a_[a`__V_XZ_baY_Y__[_WOZba_R]
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+HWI-EAS443:3:9:660:325#0/1
aaaaaaaaaaa`aa]a_aaa``````^^^`__``_]_U_`
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_¥0_b`^^]_`aZ^a`_aWYZZN`Z`U^_¥[]VRNRP[[Q
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+HWI-EAS443:3:2:1521:783#0/1
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aaaa]^a`U_aa^^a`aaaaaaa^aa`a[X`_a¥^____
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+HWI-EAS443:3:48:1207:510#0/1
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+HWI-EAS443:3:57:375:1223#0/1
aab`abbaaaaba`_aaa`aa_aaaa`aa_a]aaaa_^a
@HWI-EAS443:3:8:1092:1886#0/1
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+HWI-EAS443:3:8:1092:1886#0/1
`Z[`aa_[^aa_X`]^¥_HSYUaZR]Z_^Y]a^VY__W¥]
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a]]`¥¥_[^`aYaaa`a^¥`_¥W`_`_a`RZ^]`XS`^]
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Y_RQYaW`a_b[```¥b_WI¥W_¥Yb`JZYba_`aa_Q¥U
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aa_a_a^]aa_`_```_[]`__`_Y```]`_^]UT¥Y_¥¥¥
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a_a`_ab_^__a^a_a_¥`^]_^_^Y^_^YZUY^`^W]_S
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a`ab__`__aa__`__aa`a__^^`__`__UaaX``]T
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__]¥a_XY_bXZUO[PaZ]FXU¥`V_P]¥G^N^aRFUPW[
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a^_¥_``__V`[a`aa]`XPUR_X¥_`UXaUU``¥¥aQ_
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_N_abab`bb]a`^Y]^H`]PL__a` `a]]Ga_Z__PaB
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]aS` `K[baa_ab_^[bZ`bZ_a_] [a_`aaIaa__b`b`
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¥R`X_W^^`a^_OYb¥RYbabb^[aaUV]Y¥G¥]_X[[_G
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a_a_S_`]a_TU_Q^a[0[` _` [[` `]Y]V[VOVXV[VVFV
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+HWI-EAS443:3:91:265:1611#0/1
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][abb_bbbV[b` []bUaa_RN_YJ]IbMbUaba_Hb[a`
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¥[YaWKS`__`W_[_W^_V]`baa¥LO[^GYMDT[¥Ha¥[
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a`b[^`^_[DZZWbbaba_a`b`ba`¥__a_a_aZ`[QQZ
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_] [¥`ZZGYOXB BBBB BBBB BBBB BBBB BBBB BBBB
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+HWI-EAS443:3:88:324:1022#0/1
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+HWI-EAS443:3:98:595:1265#0/1
`b_Y_ba_] [DZb^_^¥^Z]aa` `¥_ ^DWIZ` a¥V^]a_V
@HWI-EAS443:3:16:861:1931#0/1
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+HWI-EAS443:3:16:861:1931#0/1
_]_Ra_¥_bb[` _baZabb]^ba` bXY_U_P`b]R¥` [J]
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+HWI-EAS443:3:2:215:573#0/1
aa_aa` ` ___a^` S` ` `a^]__Y_¥_` [[] ^^¥X^^Y]^
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V_`a^ [¥WJ_` ¥__ ` ^`W]SX`Y^SQ_¥_R_ []S¥NXQT
@HWI-EAS443:3:63:582:1360#0/1
AGACAAGAGAAGAACCCCGCACTCAGAATGAAGTGGATTA
+HWI-EAS443:3:63:582:1360#0/1
^Z_a` ` []TR_] `a` ` ^^^L^_^_^` ____] []U_ZYZU]
@HWI-EAS443:3:80:725:2006#0/1
CAGGAAGACAAGAGAAGAACCCCGCACTCAGAATGAAGGG
+HWI-EAS443:3:80:725:2006#0/1
^` `VZ__ ^YW[Z[H_X¥X`ZZ]Z[W^]U` ^ZU`]]]S]F[
@HWI-EAS443:3:89:1683:482#0/1
GCCATTCTGAGTGC GGGTTCTTCTTGTCTTCCTGATG
+HWI-EAS443:3:89:1683:482#0/1
a]__aa` abaa^^`baaa_a]aa^a^aaa` ^_a^_` ` ^a_
@HWI-EAS443:3:95:531:1574#0/1
AGCCACTTCATTCTGAGTGC GGGTTCTTCTTGTCTTC
+HWI-EAS443:3:95:531:1574#0/1
a¥aabaaaaaaabaa`WXa^bbaa]a`aaba`b`a_aaa_
@HWI-EAS443:3:14:748:916#0/1
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+HWI-EAS443:3:14:748:916#0/1
a]aa_aa][` __`W_ [] ^^`aU] ^^`X` [] ___] ____]]

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+HWI-EAS443:3:39:1403:1724#0/1
¥W^Z¥^^]Z]^`^`SLYUI¥]W_GNT`UWDT_a`YNTR
@HWI-EAS443:3:44:1464:1317#0/1
GATCCACTTCATTCTGAGTGCGGGTCTTCTCTTGTCTT
+HWI-EAS443:3:44:1464:1317#0/1
VaK[_UVb_b_a[_]`Ra_bbbabaR[b^^aa`Z]bX_ZN
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+HWI-EAS443:3:66:1430:722#0/1
YUb`WZa[ab`b`YYaa_a``abbbaaaab_babb`abTb
@HWI-EAS443:3:100:435:874#0/1
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+HWI-EAS443:3:100:435:874#0/1
a¥a`bbaaa]_aab_aaaaa_`_¥a`_]`_a^a_a]]B
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+HWI-EAS443:3:10:128:80#0/1
abbaab`aa_aa` `a`_]Va_^^_]^_V^^aYY`V`]
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+HWI-EAS443:3:10:152:1364#0/1
a`[ababbabV]abbababbaabaabbbbababbbba[T]
@HWI-EAS443:3:10:251:543#0/1
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a[[]VWYV_]]]^XX]VZXRXUZZ^RXWZWZGRZXXW
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a[]a¥ZZZQ[_VZUXVR`_¥VZUY`J_]_]V_U]`YV[]R
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^_b`¥aa_a]Saa`ba`a`aa` `]a_aUa_a_` `Q_aVa
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+HWI-EAS443:3:10:593:1908#0/1
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+HWI-EAS443:3:10:683:85#0/1
a___Y` `[YbaZ^¥` ` `a^a]¥VVZXNRG_H][R]ZU[[
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+HWI-EAS443:3:10:785:1527#0/1
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+HWI-EAS443:3:11:1579:1550#0/1
a_aXQ¥aa]aa[_Y]_QV[``RQRYVNLU]N]RURVBBB
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+HWI-EAS443:3:11:1620:1361#0/1
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+HWI-EAS443:3:11:430:1589#0/1
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+HWI-EAS443:3:12:1718:1606#0/1
ababbbaaba_aab`b^ab_aXU__b``Z_]_a¥]_a^
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T_a^a`bbbb_bb_]M_aab]W_T`aaJZTOXbR^]G`a
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+HWI-EAS443:3:12:625:1191#0/1
aaY^^a[_a_]`_`_a_¥aXTSU_^¥`VV_VV_XO]RKKM
@HWI-EAS443:3:12:655:1383#0/1
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+HWI-EAS443:3:12:655:1383#0/1
a`b`_b`Y_bb_]bbaab`^[a_a_aaaaa_ab`a^^Sa
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+HWI-EAS443:3:13:1144:1388#0/1
a_bb`_`baaaaa`XY_a_aaaaa_aaa`aUa_¥a`_R
@HWI-EAS443:3:13:1161:92#0/1
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+HWI-EAS443:3:13:1161:92#0/1
_`a[[]^P¥`aaX[_R¥_b`a]¥aNaa`^aV`_S¥Va_Z
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+HWI-EAS443:3:13:1776:1388#0/1
abb`a`a`b]aa```aaX[^H`NYPW____[KXa`^GPUT
@HWI-EAS443:3:14:776:1049#0/1
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+HWI-EAS443:3:14:776:1049#0/1
_UJ`a_a[Xa_]a`Z_¥`T^_Z^¥Z__`WV_¥W¥KMRW^

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+HWI-EAS443:3:14:891:73#0/1
`_a`¥U[XNY¥a[[L_] ^]RRR_`MRUWWP^WX¥`W]]WV
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+HWI-EAS443:3:15:1036:473#0/1
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@HWI-EAS443:3:15:1342:1979#0/1
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+HWI-EAS443:3:15:1342:1979#0/1
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+HWI-EAS443:3:15:1387:1812#0/1
``bbabb`^^a_Z]_aa___`[Y`P¥YS`a^aaa`a¥][
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+HWI-EAS443:3:15:206:44#0/1
aWP_a]___aS[___^XY^YX_] ^]^XXX]XU^]XVUWYWU
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+HWI-EAS443:3:16:657:1207#0/1
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+HWI-EAS443:3:16:74:939#0/1
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+HWI-EAS443:3:16:782:909#0/1
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+HWI-EAS443:3:17:1057:363#0/1
`[_a`^^a`_a_]`^[¥V¥a_Z[]V__`¥T[]_X^YX]]^
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+HWI-EAS443:3:17:1427:1160#0/1
abaX]UWY]ba`a_a_a[^a`__ZXUaQaU[_`_]U`R`_]`
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GGAAGACAAGAGAAGAACCCCGCACTCAGAATGAAGTGGA
+HWI-EAS443:3:17:1472:358#0/1
aa^____`a_a__a__¥XZVa]]^]X`X]^_Y_X^]]`
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+HWI-EAS443:3:17:183:1740#0/1
a_aaa]]S_U]^Z_]WX^_Y^[MY¥^P[T¥X[U¥[T[_`
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CAGGAAGACAAGAGAAGAACCCCGCACTCAGAATGAAGTG

+HWI-EAS443:3:17:333:591#0/1
`OZaW]Z[_]_SU_V[[Y_¥RT]`[R_^]_¥]_aX¥[U^
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+HWI-EAS443:3:17:89:1618#0/1
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+HWI-EAS443:3:17:976:2016#0/1
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QT[N_Q¥[bb^b]WR`_Y^[V¥Y[] [XNT]`JQZ`RZR]
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aa_^]a`aa`aaaa`aZza]`_X^^a]^U]^Y`YY`]UY
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+HWI-EAS443:3:18:949:493#0/1
aa^[a`Yab``aaa_baa[^a`_a`]a^`[aa]__a[Z]
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+HWI-EAS443:3:19:108:828#0/1
`]VZ`M`¥T__aV^UZ[^_¥]U_^Y`^_RDW`[^_VYVY
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+HWI-EAS443:3:19:1160:533#0/1
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+HWI-EAS443:3:19:1445:745#0/1
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+HWI-EAS443:3:19:1597:1088#0/1
US¥R¥b[SV[bUb_S]b`ab[aZW`Zaa`_[ZbbLS_WW¥
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+HWI-EAS443:3:19:403:1437#0/1
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@HWI-EAS443:3:1:1149:900#0/1
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+HWI-EAS443:3:1:1149:900#0/1
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+HWI-EAS443:3:20:1422:1384#0/1
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@HWI-EAS443:3:20:1438:1691#0/1
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+HWI-EAS443:3:20:541:990#0/1
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+HWI-EAS443:3:21:1751:1494#0/1
Ua```_abbb]VUb`^_aSH`a`]G]NVWX]_a^`¥][XY
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+HWI-EAS443:3:21:196:488#0/1
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+HWI-EAS443:3:22:1032:776#0/1
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+HWI-EAS443:3:23:1242:1056#0/1
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+HWI-EAS443:3:23:973:795#0/1
aaaaabaabbbb]aaa_abab]aab^`Yaaaa]a`a__`
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@HWI-EAS443:3:24:458:1078#0/1
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+HWI-EAS443:3:25:1248:1383#0/1
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a_ba^aba^^bb_Q`aaababbaaaaaaaaaaaaaa[a`aa`
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+HWI-EAS443:3:27:863:881#0/1
_b_Y__`]b`bQ`a^^YP[_a__X_N_]aWSS__^_a_U]

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^U¥_^[\`^^Q^`_`^]`^XXY][_`[]T[¥[X^UN[V`YR
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+HWI-EAS443:3:28:1546:422#0/1
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`a¥Z_ab]_U_]`^a`^]_¥`¥a_a``^a_[Y`_`_¥aa`Z
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+HWI-EAS443:3:42:1229:1126#0/1
_aaba_a`aaab`_a`_`a¥_baa^`_```__aa`¥aWaa¥
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+HWI-EAS443:3:43:1353:994#0/1
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a`a]^`a`a]W_a]^`a^_a_a^`_]`[_X¥^_Y]]Z__Z]
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a[``a_]`^b]^`^`_Y[X[`¥¥Y`^^^`]^`UY^O_]`
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+HWI-EAS443:3:46:1653:497#0/1
^ab`aa`_`W[aZa_`_^aa_XZ_`a_]``]]_aX]`W¥
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aZZaaaa```]_____a`_ZYaZ`^`__`¥R¥ZUNYS[ZY
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+HWI-EAS443:3:4:393:1262#0/1
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+HWI-EAS443:3:52:1174:1063#0/1
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`ba_a_a`Za^a_aa¥`a]__a`^[_aYZ_a]^aY`Y
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+HWI-EAS443:3:56:1029:508#0/1
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^`a`aaa^aaa¥¥a]Z¥^ZZ`aaa`^` `]\_`\_`¥U¥Z¥[\_  
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+HWI-EAS443:3:83:542:157#0/1  
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a\_b\_\_ZX¥`\_`\_]WY`aaabb]ZV]]`a[\_aa^V\_\_a^¥R  
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a\_b\_[baaaa`a\_aab^a[aa\_\_\_\_\_`aa`b^`a`aa\_\_V  
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abaW¥`aa¥¥¥a[W[a\_aa`aSaXRb^a[a]`a\_]`a]^a  
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+HWI-EAS443:3:89:278:1262#0/1  
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^`TQW^\_]aba]Z\_Z`aa\_a¥]TXa[XUXXa^`^XaU]\_S  
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aa¥aa\_a`\_a\_a[^a`\_^[^\_\_]\_]\_\_a]]\_a]]\_Ua^]  
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aZU^a\_¥VSVVX\_a]JMX¥Y^aZ\_`][^ULP¥\_VU\_S^^R  
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¥WW\_a[]a¥VS^)`a[a^b]ZZaYFWP]]]]T\_`a`¥\_`U  
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^Y```X^aa[U`^`\_b\_^\_ab``b`b¥\_\_a`\_aa^a^baa  
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a`[^`^`\_a\_]`[\_^\_a^\_Z[^`ZZ[]ZZW\_[[WY]ZY[]Y]  
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a]Xa`aaa`aaa\_a\_a^`\_\_^`\_`\_`\_a\_[\_Y`^X¥]]^  
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a`^\_a¥\_a\_a\_a¥]\_`^[]\_`^aa]¥\_W\_a^Wa¥U^VYU  
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+HWI-EAS443:3:61:1007:689#0/1  
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aa^ab`]JR\_\_`aa\_\_]^`\_`a`^^Z]^`\_]Q^ZX`Z]^  
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+HWI-EAS443:3:58:1742:1469#0/1  
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+HWI-EAS443:3:94:865:1427#0/1  
a\_]\_]\_aUTWa]YSR[aTVVW¥]a`VZUEXXL]^`T^a\_a\_Y  
@HWI-EAS443:3:16:511:1557#0/1  
CAGAATGGCCCAGCATTAAAGCATCAATGAACTGAGCAATC  
+HWI-EAS443:3:16:511:1557#0/1  
`aJaa[\_¥]^aaaa^\_aaUa\_\_^\_]\_`¥a\_\_W^¥^`\_VS

@HWI-EAS443:3:17:1261:1858#0/1  
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+HWI-EAS443:3:17:1261:1858#0/1  
]XRTT\_XXU\_[\_a¥RSXSXXX¥NTOHNVSPYLP^LJBB  
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+HWI-EAS443:3:17:323:650#0/1  
\_baaab`aVb^abaa`a\_``aa`a`S¥a`\_`a`^`\_`^`Y^  
@HWI-EAS443:3:17:482:102#0/1  
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+HWI-EAS443:3:17:482:102#0/1  
¥JW]``a¥`Ua\_^¥U^]]`\_SXaZ^\_]\_\_Y\_\_`^]SPU\_  
@HWI-EAS443:3:20:867:1315#0/1  
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+HWI-EAS443:3:20:867:1315#0/1  
^aabbb`aabaaaaaba[`aaaaaaaa`Ya\_aa`\_  
@HWI-EAS443:3:25:1161:1610#0/1  
AAGGGATATGGCCAGCATTAAAGCATCAATGAACTGAGCA  
+HWI-EAS443:3:25:1161:1610#0/1  
\_VaL`\_`b\_\_bbbaaW^`aab`ba]`a]Za[`XZ\_a[`a  
@HWI-EAS443:3:27:703:1318#0/1  
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+HWI-EAS443:3:27:703:1318#0/1  
a^V]a`¥a\_aR``[``^`\_`^`\_`^]`^`\_`^]`^Y\_]\_\_YW  
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+HWI-EAS443:3:28:910:884#0/1  
ab]]`aa`U\_aZ\_\_\_^a\_¥^\_Z^Z\_¥\_`^ZW¥¥\_\_U^]¥\_  
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+HWI-EAS443:3:32:493:1189#0/1  
\_aa]`a]^a\_^Z]Yaab¥¥R]Y`]¥ZWV]a[\_Q[\_ZK]`U  
@HWI-EAS443:3:32:772:1569#0/1  
GATGGGCAAAGAAGACAAGAGATATGGCCAGCATTAAACC  
+HWI-EAS443:3:32:772:1569#0/1  
^¥`\_`aabYY¥]YV]a\_V][XW`\_NOW\_^OG[IL`YNZ¥F^  
@HWI-EAS443:3:34:969:1809#0/1  
GCATCAATGAACTGAGCAATCTTGCAAAGGAGAGAGAGC  
+HWI-EAS443:3:34:969:1809#0/1  
]R]XSXH]aYa`ZPZ]XXJNTUXNN[RL[]NQLLWUR^\_B  
@HWI-EAS443:3:42:88:1222#0/1  
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+HWI-EAS443:3:42:88:1222#0/1  
aa^H^N\_\_aaa``aa`a\_\_a`````\_`a```^`X\_^`]  
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+HWI-EAS443:3:43:261:1910#0/1  
ZZ]U]b`WFW\_V[[]X]\_aaaa\_\_ZVXWV¥`]ZVZ¥HX]a  
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+HWI-EAS443:3:45:1673:1971#0/1  
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+HWI-EAS443:3:46:232:676#0/1  
aab\_abXL[a]P[VR\_\_aZULR][UY^[¥V[Y\_^\_\_U  
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AGAAGAACCCCGCACTCAGAATGAAGTGGATGATGGTAAT  
+HWI-EAS443:3:49:1386:1781#0/1  
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`Y^Z^`aaa`\_`aZaa^^¥[¥^`\_`\_]\_[^]Z\_a[]\_\_  
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+HWI-EAS443:3:58:844:1220#0/1  
a^`\_`¥a`aaa`\_\_`\_\_a^]^[^aaa`a^`YXY\_¥¥  
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\_Va]aX`^[\_`^^aaa\_a`[¥]a\_¥a\_a^VLYXXZSY]  
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U[V¥G¥V\_¥]aabU\_\_][W\_W^\_[Y\_¥^YS[JH¥\_HH^V  
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+HWI-EAS443:3:68:881:1310#0/1  
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+HWI-EAS443:3:6:83:1277#0/1  
a`[\_`^a)```^`[aa\_aa^^P^\_ZW`a^`\_[\_`V  
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+HWI-EAS443:3:70:1130:1607#0/1  
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+HWI-EAS443:3:73:783:1881#0/1  
`baaababba\_`aba`aa^`a\_aa`\_`^^RZa`\_`a\_a\_  
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+HWI-EAS443:3:77:1028:1160#0/1  
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+HWI-EAS443:3:82:644:808#0/1  
Z\_[0\_a¥\_^¥SSS[¥Z[PY`\_¥\_\_¥ZYa\_THZZHXUO¥V  
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+HWI-EAS443:3:83:862:1612#0/1  
U[\_ZW`a]aab`Z]\_Z\_aUa`\_aa0aU`aa\_Yaa]U\_\_  
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W¥aY`VZ\_Z¥`ba`ba]aa`¥aa`^[[Y\_V^[R[S[a^  
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+HWI-EAS443:3:87:1658:296#0/1  
^a^JbabbabUS¥\_b`a`\_X]a`[]`]aa``\_[Y`Z^]W^  
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+HWI-EAS443:3:89:315:406#0/1  
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+HWI-EAS443:3:98:889:1577#0/1  
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+HWI-EAS443:3:11:911:1521#0/1  
RZb]WabYV\_\_WZNP¥ZD[\_X\_QRXab\_¥Sba\_¥OH¥Xb]  
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+HWI-EAS443:3:100:1091:1391#0/1  
a`b^aUD¥aW¥0]a\_Y`\_\_\_`W[\_R^^[¥WV]R¥Y\_ZWBB  
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+HWI-EAS443:3:100:382:1508#0/1  
^a```]M^Z]JN^XPLRXT[THQ]^\_\_b\_\_\_[]TO[MURBB  
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+HWI-EAS443:3:10:1644:94#0/1  
ab¥bbbbbbbbb`abbbbab`baaabaaaHab\_]Sa^]`a  
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+HWI-EAS443:3:10:607:2001#0/1  
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+HWI-EAS443:3:11:1361:1796#0/1  
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+HWI-EAS443:3:11:1433:975#0/1  
^VP^]¥aUM[OLZ`Q]MG^W`\_\_^Za`aJX` `a\_a\_W\_\_  
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aaa\_a\_a`a`ZFU^I^\_aTV` `^^^¥Z^^GNW^O\_RWVX\_  
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+HWI-EAS443:3:12:121:1480#0/1  
a^`aa¥ZaI]b]¥`a\_aPa\_aSaM\_baaa^\_\_a^]U]^[[  
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+HWI-EAS443:3:12:91:783#0/1  
`aa¥X]`^VY¥RQ^QX[]^WG][Y]Z\_G\_^][UZYZPZ]`  
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+HWI-EAS443:3:14:98:1385#0/1  
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¥ababbbbaaab^^`aa[`aa¥a\_b`ba[aa\_\_aaY`\_  
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+HWI-EAS443:3:15:1170:1836#0/1  
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+HWI-EAS443:3:16:1053:1505#0/1  
ab\_V\_Zaaa^FYWZ^OSY`¥R`WV^\_\_a\_UYY^¥^^]¥^  
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+HWI-EAS443:3:17:1057:584#0/1  
a\_\_X\_ZaZ[QUa`HSVZVV]UH`^WG^U\_SUSSQU^XUY]  
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+HWI-EAS443:3:19:972:81#0/1  
a[`b` `a\_b\_Q^\_a[T`\_WI`V¥aY`^aa\_^[\_^XVUO\_  
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^`baba^b[bb\_PfZ\_R\_^¥a`b^a^[a¥\_\_^aY^a\_\_SB  
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+HWI-EAS443:3:1:769:1332#0/1  
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+HWI-EAS443:3:22:1070:1627#0/1  
aa[W]baa^aa`aa[aa¥`]aa^WDXa` `¥\_[¥aa` `aaa



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+HWI-EAS443:3:22:382:1860#0/1  
a`a]Yab`a\_a`\_a\_aa\_\_aa\_\_Y^a`\_`[`a^[^^^```  
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aaaT\_ZDMPZY]]XYa`\_^Y^^S` `[QW[RYO]^0[SSG¥  
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aab`\_bb¥b`aaaa`a`a\_aa¥a` ``\_\_a`a^\_]RXZX]  
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aaabb`ab\_]bba`¥a[aaZY^ab¥aa`aaaa^[Xaa`a]  
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+HWI-EAS443:3:27:317:986#0/1  
aYY[a\_] [` ``Ra^¥aaa]\_XPTaZLOLFR^UJ^`\_^VZY  
@HWI-EAS443:3:28:1216:1390#0/1  
ATTAAGCATCAATAAACTGAGCAATCTTGCAAAAAGGAGAG  
+HWI-EAS443:3:28:1216:1390#0/1  
aaaab`aaa`aaa^`a\_\_a` `` `` `]\_\_\_^^^`\_\_^`  
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+HWI-EAS443:3:28:1398:867#0/1  
aa¥`aab]a`aQX\_\_`aaX` ]^^^^[^ [^W\_^ [LFX\_]\_Z  
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CATTAACCATCAATGAACTGAGCAATCTTGCAAAAAGGAGA  
+HWI-EAS443:3:29:1261:2027#0/1  
^b[]^NGO[`a\_V¥]]` ]`a^¥\_a\_[\_ba[abbYaabab`  
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+HWI-EAS443:3:2:1293:1924#0/1  
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` ]`aa`aaaa¥GV]aaX]Z`\_0a`SH\_\_¥\_\_JT0FQ\_a]G  
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Y\_V\_\_\_\_\_^`\_^\_\_aa\_\_`aaa`\_¥ZLW]`NR^\_YWY[S  
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+HWI-EAS443:3:34:1025:1290#0/1  
`\_\_\_a`\_¥\_]aaa\_[W^`[SX``])`¥VYVY]^\_VZ[^B  
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+HWI-EAS443:3:34:295:810#0/1  
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+HWI-EAS443:3:36:258:700#0/1  
]aW0\_```baa\_a^M^a\_b]`]^`MaV\_^W\_\_^a]\_]`]  
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ZSaa\_bbb]\_a^`][\_]a`]\`bba\_`^^bFK¥\_^a\_aaab  
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`a[[\_]a]a`a\_WWa\_aa\_a]\`Xa`\_a^TDF^Y[]\_¥aa^  
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+HWI-EAS443:3:3:847:1877#0/1  
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Y\_[Z^bb`[L\_W]\_S\_ZZ]`bZS[\_` `ZYLF]\_L¥][X[Q  
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OPaV` `¥b¥¥Y0[¥Taa[X¥Ta¥aM[b^¥M\_b[¥a`V^^`  
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¥[\_S^Z^J¥S\_^^^aUP¥I]`[ZLVTb^S`YZ\_]GQZGYH  
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R\_`^bbW^\_a\_¥X\_baV`aV^[\_J]DXY^TaSD¥`XP]a`  
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Q\_^bba`b^`a]`¥I[Y`\_]¥¥¥Ga¥`VX`W^ZU]ab  
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¥]`baa\_ababa`ab`bbb``aaaa\_a`baVS`aa\_a]a\_  
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a\_]a\_aa[^^^]^\_^\_]¥^[\_`\_\_XKHRWRM\_Z^Z¥Z\_V^  
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a`aaaaaaaa\_\_a`a]\_\_`¥^\_\_^```a\_\_Y`^]]^]]\_`^  
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a\_\_a\_a`a`a`\_]Xaa\_aaaW]\_\_¥¥a`^\_\_Z\_Y\_\_Z`^¥V^  
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a¥_aa^_U`^^_^]`^`_Z^`^^_`^Z_V_]`^X^Z]V]
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+HWI-EAS443:3:3:74:860#0/1
aba[abaaab`U¥aaaa[b^aaababaaaSaaaaaaa`a[
@HWI-EAS443:3:42:293:1598#0/1
AGAATGGCCCAGCATTAAAGCATCAATGAACTGAGCAATCT
+HWI-EAS443:3:42:293:1598#0/1
WRY^^¥]___^^^ZX_]`Z]]]¥VWW__[ZZZV]^S[X
@HWI-EAS443:3:44:115:1319#0/1
ATCATGGCCCAGCATTAAAGCATCAATGAACTGAGCAATCT
+HWI-EAS443:3:44:115:1319#0/1
a_aa^X[_W][`[OX_]_PTZYa¥]]XY^]^ZUX^]^¥TZ
@HWI-EAS443:3:47:1109:1381#0/1
GATGAGAAGAACCCCGCACTCAGAATGAAGTGGATGATGG
+HWI-EAS443:3:47:1109:1381#0/1
GU[bb_[]`¥¥baX¥abbbb_^[]Vbb_`b^ab`Ta¥Z^`

@HWI-EAS443:3:47:312:702#0/1
AGATAAGCATCAATGAACTGAGCAATCTTGCAAAGGAGA
+HWI-EAS443:3:47:312:702#0/1
a^¥a¥aaaa¥Q]abWa¥`X^`Pa`_]aaa``__^aa`a
@HWI-EAS443:3:49:937:1496#0/1
GAGATGGCCCAGCATTAAAGCATCAATGAACTGAGCAATCT
+HWI-EAS443:3:49:937:1496#0/1
]¥a`^_a[[Y`_`a__`^`¥_]`a[_]`^]]U]^`
@HWI-EAS443:3:4:1314:297#0/1
AAGAGATATGGCCCAGCATTAAAGCATCAATGAACTGATCA
+HWI-EAS443:3:4:1314:297#0/1
K`_a_b_b_ab¥^_ab`bb_b[aaa^^`QVbR_U^aPF[_
@HWI-EAS443:3:4:1557:360#0/1
GAGAAGAACCCCGCACTCAGAATGAAGTGGATGATGGGAA
+HWI-EAS443:3:4:1557:360#0/1
a_a_YLY`^]]__WU^¥_]ZSX^[NQ]SaXX_]SX]BBBB
@HWI-EAS443:3:50:1078:1611#0/1
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+HWI-EAS443:3:50:1078:1611#0/1
ab`aabbba`a`]ab^]_a_a`_a^a`Z]U[^S`___Ya
@HWI-EAS443:3:52:1324:1960#0/1
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+HWI-EAS443:3:52:1324:1960#0/1
`bbbbba^_aba`]`aaaTaa^aaa`abana^_`_]YXa
@HWI-EAS443:3:54:1017:237#0/1
TTGATTGATGCTTAATGCTGGCCATATCTCTTGTCTTCT
+HWI-EAS443:3:54:1017:237#0/1
`THW^_Y^aQ`b`a`_[Q[a^[_a[`WRZaaa¥GR^]]
@HWI-EAS443:3:56:612:882#0/1
GAGAGCATTAAAGCATCAATGAACTGAGCAATCTTGCAA
+HWI-EAS443:3:56:612:882#0/1
aaa`aaaa]`a`aa`^`_a___a_]a_aa`^^^`]^`__^
@HWI-EAS443:3:57:1524:1701#0/1
AAGAAGCATCAATGAACTGAGCAATCTTGCAAAGGAGAG
+HWI-EAS443:3:57:1524:1701#0/1
ab`aa`_a_a`ab___a`_aa^[_`aa^`__^^`¥a`]
@HWI-EAS443:3:57:328:285#0/1
GAGATGGCCCAGCATTAAAGCATCAATGAACTGAGCAATCT
+HWI-EAS443:3:57:328:285#0/1
a^a`¥aaa`_`¥YaYa¥[¥V`a`X^_a`_U^^]`ZZZX][
@HWI-EAS443:3:59:1739:1789#0/1
AGAATGGCCCAGCATTAAAGCATCAATGAACTGAGCAATCT
+HWI-EAS443:3:59:1739:1789#0/1
a^_a_]Za^_[YGWX]aZ]ZX_]W_aS_`]]H[XMSO_U]
@HWI-EAS443:3:62:1652:594#0/1
GAGAAGAACCCCGCACTCAGAATGAAGTGGATGATGGNAA
+HWI-EAS443:3:62:1652:594#0/1
a`]]`aaa_]`a]`_a_^a__`^X`Ya`U[aY^_YDUZ
@HWI-EAS443:3:62:737:1121#0/1
AGAAGACAAGAGATATGGCCCAGCATTAAAGCATCAATCAA

+HWI-EAS443:3:62:737:1121#0/1
¥`^aa`aa_`_]`a]a^[^]a```aa`_]```a[_a_]F[]
@HWI-EAS443:3:63:1054:1927#0/1
TGCCCATCATCCACTTCATTCTGAGTGC GGGTTCTTCTC
+HWI-EAS443:3:63:1054:1927#0/1
aabba^aa`_¥N[_`aa[aaaaPT_H^_Y_a¥H[_a`G_]`
@HWI-EAS443:3:64:1020:1822#0/1
AGAATGGCCCAGCATTAAAGCATCAATGAACTGAGCAATCT
+HWI-EAS443:3:64:1020:1822#0/1
_Yaa`^Z¥`aYX^ba__a_T__`__`[Y]X`____]`__]`
@HWI-EAS443:3:6:484:1006#0/1
GACAAGAGATATGGCCCAGCATTAAAGCATCAATGAACNGA
+HWI-EAS443:3:6:484:1006#0/1
^^`YFYa`baba`^`^`_]a`a]a`_`_`¥aaaYTDR`
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+HWI-EAS443:3:74:1393:994#0/1
ababbbabbaaaabaaaabababaa`aabaa``aaa`aaa
@HWI-EAS443:3:75:1300:1298#0/1
GAGATGGCCCAGCATTAAAGCATCAATGAACTGAGCAATCT
+HWI-EAS443:3:75:1300:1298#0/1
_VOTaa`aa`aa_a`aaaaX^a¥__a`____a[_`X`_`_^
@HWI-EAS443:3:78:678:1029#0/1
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+HWI-EAS443:3:78:678:1029#0/1
a]^a`^`a`]][^¥aaa][T_`aa`_a__`a__]aaa__Z`
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+HWI-EAS443:3:81:1353:578#0/1
aba`^`ab_ab_]a`b`aYa_aa_aaa__a[aaaab`^`a_Y
@HWI-EAS443:3:81:1372:238#0/1
CACGATTGCTCAGTTCATTGATGCTTAATGCTGGGCCATA
+HWI-EAS443:3:81:1372:238#0/1
a^ab^bbabZI]aaaaZab¥^aaZ¥aa]`a^__]_^X_a_
@HWI-EAS443:3:82:484:117#0/1
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+HWI-EAS443:3:82:484:117#0/1
aaaZ`a]ab`SaY]a]LaaT^ZV_¥U_^aaVW]^VN]^a_
@HWI-EAS443:3:83:1142:1034#0/1
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+HWI-EAS443:3:83:1142:1034#0/1
`aaa`ab`^`aaa_aaaaaaVaa_aaa`a`^`^`^`^`a`_`__
@HWI-EAS443:3:86:546:553#0/1
AAGAAGCATCAATGAACTGAGCAATCTTGCAAAGGAGAG
+HWI-EAS443:3:86:546:553#0/1
__bba`^`a`^`aaaaaaa`a`a`^`^`^`^`^`¥Y`a`aaa
@HWI-EAS443:3:89:1075:1052#0/1
CAAGAGAAGAACCCCGCACTCAGAATGAAGTGGATGAGGG
+HWI-EAS443:3:89:1075:1052#0/1
Sa`RX_`abababa¥b__ba`aa_bab^J[ZbaYJ^YI_]`

@HWI-EAS443:3:92:50:46#0/1
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+HWI-EAS443:3:92:50:46#0/1
a`^_aa[_R^[]aXQ_NY[]UUU¥GUYH[]]BBBBBBBBBB
@HWI-EAS443:3:94:1407:1842#0/1
GAGATGGCCAGCATTAAAGCATCAATGAAGTGGCAATCT
+HWI-EAS443:3:94:1407:1842#0/1
`WaaU^a`^`a``¥aaaabY¥aa^¥¥aab]b`ab^aWMTa
@HWI-EAS443:3:94:1480:288#0/1
AGATTGCTCAGTTCATTGATGCTTAATGCTGGGCCATCTC
+HWI-EAS443:3:94:1480:288#0/1
a`aaaa^`_`_`_aWa_`^]`a^a__¥_`]W_^WG[_Z^O
@HWI-EAS443:3:96:998:735#0/1
CTCTCCTTTTGCAAGATTGCTCAGTTCATTGATGCTTCTT
+HWI-EAS443:3:96:998:735#0/1
_VZ¥[TZ_V[WZ]``^W_SW¥ZWX`U`__P]]]F]`T`X
@HWI-EAS443:3:98:1550:1367#0/1
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+HWI-EAS443:3:98:1550:1367#0/1
a]Lb`ZZ_a_a`a_]bab`[`b_]Kb^abaI_`^a`a^^
@HWI-EAS443:3:98:1583:1664#0/1
GAGAAGAGAAGAACCCCGCACTCAGAATGAAGTGGATGAT
+HWI-EAS443:3:98:1583:1664#0/1
a^VUZZ`V^aa^^SUZG`[XURRXY^]^MVXG_GQRZ]W
@HWI-EAS443:3:99:250:1812#0/1
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+HWI-EAS443:3:99:250:1812#0/1
`XUUZaaaVH^[¥WR_^X¥¥RVN`KRZHa]a^LNNZBBBB
@HWI-EAS443:3:10:1378:1104#0/1
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+HWI-EAS443:3:10:1378:1104#0/1
ababaa[D[baaaaa_aaa_^aa_^aaaa_`_^]^a```
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+HWI-EAS443:3:12:1594:1612#0/1
aaWDNz__YYaL]_`ZV]R¥^¥RW`U[]YR]GW[VPWWWB
@HWI-EAS443:3:13:1094:1104#0/1
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+HWI-EAS443:3:13:1094:1104#0/1
a_aaa`]___`^^_`Y]WDX_]^Z]_^]`^^XU^Z]^Z¥
@HWI-EAS443:3:14:1094:371#0/1
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+HWI-EAS443:3:14:1094:371#0/1
aY`_PX]X[_a`]TS[`^XW_Z]^_YWMDPWS[^Z^V]ZW
@HWI-EAS443:3:19:498:588#0/1
AAAGAAGACAANAGATATGGCCAGCATTAAAGCATCAATG
+HWI-EAS443:3:19:498:588#0/1
a_Y_]a`_`ZDwa^^_Y__`]a]]_]_a^ZZ]]VW_]^
@HWI-EAS443:3:22:1670:718#0/1
TTTTTNAACAATTCGACACTAATTGATGGCCATCCGAATT

+HWI-EAS443:3:22:1670:718#0/1
aa_a[DZ` [` a ^ [_] aW` ^ ` ^ [_]] SY¥Z] XXYZ_]
@HWI-EAS443:3:29:983:1131#0/1
CCCAGCATTAAGCATCAATGAACTNAGCAATCTTGCAAAA
+HWI-EAS443:3:29:983:1131#0/1
abab`_bababaaaaaaabaa`a¥D[` ^aaa` `aaa___^
@HWI-EAS443:3:30:355:1378#0/1
TTTAAACAATTGACACTAATTGATGNCCATCCGAATTCT
+HWI-EAS443:3:30:355:1378#0/1
ab`Y[aab` aaaaabbba^ba` `a` ZD^aa` aa` a¥` a___
@HWI-EAS443:3:36:1184:726#0/1
GAAGACAANAGATATGGCCCAGCATTAAGCATCAATGAAC
+HWI-EAS443:3:36:1184:726#0/1
^`S] Ya` YD] aa` ZZ¥[`] [LW¥aa` ^X¥` ^U^Z] [[X] a
@HWI-EAS443:3:40:1373:97#0/1
AGAAGAACCCCGCACTCAGAATGAAGTNGATGATGGCAAT
+HWI-EAS443:3:40:1373:97#0/1
abaab`a_`_^a_`_` [_a_] `a] X_MDXXYaV^` ^UUU^
@HWI-EAS443:3:43:1429:1221#0/1
CAGCATTAAGCATCAATGAACTGAGCNATCTTGCAAAAAGG
+HWI-EAS443:3:43:1429:1221#0/1
abbaabbbb¥aWb] ababaa` bbaaSDUbaaa_`_` a_` aS
@HWI-EAS443:3:46:1701:1083#0/1
ACAAGAGATATGGCCCAGCATTAAAGCNTCAATGAACTGAG
+HWI-EAS443:3:46:1701:1083#0/1
aZ] P X¥` [] ^ [` U_ TH¥YP` aU] P` UDTQY [] V¥XV] U^_
@HWI-EAS443:3:46:197:835#0/1
CAATTCGACACTAATTGATGGCCATCNGAATTCTTTTGGT
+HWI-EAS443:3:46:197:835#0/1
a^_b` `b` ^` ^` a^` ^] aaaaaYYZ` aZDZYZ^` Xaa` _] ^Y
@HWI-EAS443:3:47:702:1684#0/1
CAAGAGAAGAACCCCGCNCTCAGAATGAAGTGGATGATGG
+HWI-EAS443:3:47:702:1684#0/1
aa¥` ¥¥` a` `bb_` ^a [DWXabZaa [ba` _R] _ [` V` ^U []
@HWI-EAS443:3:48:369:1206#0/1
GAGATATGGCCCAGCATTAAGCATCAANGAACTGAGCAAT
+HWI-EAS443:3:48:369:1206#0/1
aa] R¥aVZ¥` a]] Z¥_X_` _TWU¥TY [DW^W] a` `XWW []
@HWI-EAS443:3:48:511:1464#0/1
CAGCATTAAGCATCAATGAACTGNGCAATCTTGCAAAAAGG
+HWI-EAS443:3:48:511:1464#0/1
abaabbbbabbaa_aabb` ¥_b^DW_b_a^a_aWSZNKW`
@HWI-EAS443:3:50:1132:667#0/1
ACAAGAGANATGGCCCAGCATTAAGCATCAATGAACTGAG
+HWI-EAS443:3:50:1132:667#0/1
ab^] bbb] D] abbb_b` aYbbbaaaaaaaa` aaaaaaa^a
@HWI-EAS443:3:50:590:1020#0/1
AGAAGAACCCCGCACTCAGAATNAAGTGGATGATGGCAAT
+HWI-EAS443:3:50:590:1020#0/1
a`] b` baa_babaaaaaab` b [DX` b` baaaba_a` `] _a

@HWI-EAS443:3:52:1468:277#0/1
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+HWI-EAS443:3:52:1468:277#0/1
^`ba^]_a`¥`ab_[V[a^aZVZY[Z]SDYW_`V[¥[WVZ
@HWI-EAS443:3:52:963:1781#0/1
GAGAAGAACCCCGNACTCAGAATGAAGTGGATGATGGCAA
+HWI-EAS443:3:52:963:1781#0/1
aaaaaaaa` `][D[__`_a^`a`_`^aZ¥a_a_^^^ZZ^_
@HWI-EAS443:3:55:866:1882#0/1
TCCTTNTGCAAGATTGCTCAGTTCATTGATGCTTAATGCT
+HWI-EAS443:3:55:866:1882#0/1
X_VZUD][_[P^aYV_ZTU_a]aZ^^]S]a]U]ZaQa`V]
@HWI-EAS443:3:59:1346:905#0/1
AAGAAGACAAGNGATATGGCCCAGCATTAAAGCATCAATGA
+HWI-EAS443:3:59:1346:905#0/1
`^bbabbbba^D]aaaaaaaa_a^aababbaaWaa_XQa`^
@HWI-EAS443:3:60:1149:2010#0/1
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+HWI-EAS443:3:60:1149:2010#0/1
]bbb_[b]abaabbbbab[a`bbabMDZaa`a_a`a¥`_G
@HWI-EAS443:3:60:1479:719#0/1
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+HWI-EAS443:3:60:1479:719#0/1
aabbaaab_baaa`aaaa_aa_a`_aa_``_NDX`[^a^
@HWI-EAS443:3:61:1009:1448#0/1
ACAATTCGACACTAATTGATGGCCATCCGAATTCNTTGG
+HWI-EAS443:3:61:1009:1448#0/1
aba`aab^`aa`aaaaaaaa_`¥aabaa` `` ``]N¥DX[VJ
@HWI-EAS443:3:66:1527:596#0/1
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+HWI-EAS443:3:66:1527:596#0/1
a`b^aaaaaXDYab`a_`^`a^a`^`_aa]`_`_W`]_`a
@HWI-EAS443:3:6:1351:1835#0/1
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+HWI-EAS443:3:6:1351:1835#0/1
aaab`_RT[_`XZU]a``ZDYa¥QaYa`Q`_TLBBBBBBB
@HWI-EAS443:3:74:689:1124#0/1
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+HWI-EAS443:3:74:689:1124#0/1
ab_Z`b¥`b^D^aaaaaaaa`a`aaa`a_aaa_aa¥`X^
@HWI-EAS443:3:75:975:245#0/1
GCCNTCATCCACTTCATTCTGAGTGC GGGTTCTTCTCTT
+HWI-EAS443:3:75:975:245#0/1
a`¥D¥ab]_aa`ba^aaa_a`_a_`^aaa`V_¥a`^Y_W_^
@HWI-EAS443:3:81:1044:1515#0/1
AAACAATTCGACACTAATTGATGGCCATCCGAATTCNTTT
+HWI-EAS443:3:81:1044:1515#0/1
aa_a¥U]a_[[a^`a_`^`][O^`_U`_]¥_XRDW_]`
@HWI-EAS443:3:82:474:1144#0/1
GAGATATGGCCCAGCATTAAAGCATCNATGAACTGAGCAAT

+HWI-EAS443:3:82:474:1144#0/1
¥R¥^Y^aba]¥[]¥_Y¥_aWUDY`^VY`][]]
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CAGCATTNAGCATCAATGAACTGAGCAATCTTGCAAAAAGG
+HWI-EAS443:3:86:1061:1822#0/1
X_¥R_^WD^_¥__T_[¥`^YWY^`WG^`a`_`ZNT`a¥^Z
@HWI-EAS443:3:88:184:1038#0/1
TTTTAAANAATTGACACTAATTGATGGCCATCCGAATTC
+HWI-EAS443:3:88:184:1038#0/1
abbab`YD]a`aaaaaba`^`a__`_`^`_`_`a`_`_W`_`
@HWI-EAS443:3:8:1521:983#0/1
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+HWI-EAS443:3:8:1521:983#0/1
aa`^`baaZba`^`aaaYa`_`[VDY`aaG[ZaaX`¥][]]
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+HWI-EAS443:3:91:1257:1737#0/1
a]b]bbbbbaaa`^`ba¥aa^aab`UDP`aaaa`b`0`a
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+HWI-EAS443:3:92:1270:105#0/1
`bbbbbbab^b[D[aab]aaa`a[[¥bb^_ZM]WW[b]ab¥
@HWI-EAS443:3:94:586:1496#0/1
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+HWI-EAS443:3:94:586:1496#0/1
aaaaa_aaa_a`^`aaaa_`^`aMDY_`^`a`_`_`^`_`_`[a^^
@HWI-EAS443:3:97:205:1266#0/1
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+HWI-EAS443:3:97:205:1266#0/1
abababbaaaba[D[aaa`_`_`a_aaa__aX`]_ab^^a]
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+HWI-EAS443:3:9:1139:64#0/1
^aa`N]a`aaa[YDY_a]aSa^`0aX^W[XSY_UW_Y_Z
@HWI-EAS443:3:13:102:1455#0/1
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+HWI-EAS443:3:13:102:1455#0/1
`[`_W¥`¥`ab__bbabb^baaa^^RXNaaTIaQQ¥GP
@HWI-EAS443:3:25:151:1922#0/1
GAATGGCCCAGCATTAAAGCATCAATGAACTGAGCAATCTT
+HWI-EAS443:3:25:151:1922#0/1
Za`¥WY_aa__bba`_`^`Wbabbb_]`a_a`][]ZZ`_`^`
@HWI-EAS443:3:30:1539:1570#0/1
AGATGGCCCAGCATTAAAGCATCAATGAACTGAGCAATCTT
+HWI-EAS443:3:30:1539:1570#0/1
aaa`a`b`aa`aaaaa_a`_`[^`____¥`_`^`V_]¥MZ^
@HWI-EAS443:3:32:1213:2011#0/1
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+HWI-EAS443:3:32:1213:2011#0/1
aaaabababaaaaaaa__a_aaaa__a____`_]__`^`_`_`

@HWI-EAS443:3:35:1145:1116#0/1
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+HWI-EAS443:3:35:1145:1116#0/1
aab`aaaa`__aaaa`a`aa_aa^Z_aa__Ya`Y]a^]
@HWI-EAS443:3:38:757:1017#0/1
GAAAGAGAAGAACCCCGCACTCAGAATGAAGTGGATGATG
+HWI-EAS443:3:38:757:1017#0/1
aaaaaaaa`_¥[aaaa`_`_]XU[_]^]VXX]]_Y^X
@HWI-EAS443:3:3:1360:2022#0/1
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+HWI-EAS443:3:3:1360:2022#0/1
_aaaa^b]_Xaa`a_Va]`]XS]^_X^_]`_X_¥0^VGZ
@HWI-EAS443:3:49:599:1191#0/1
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+HWI-EAS443:3:49:599:1191#0/1
`a`aa^aaaa`aY`_``````_`^a`^aa[Ha`ZX__¥
@HWI-EAS443:3:54:724:701#0/1
ACATGGCCCAGCATTAAAGCATCAATGAACTGAGCAATCTT
+HWI-EAS443:3:54:724:701#0/1
aa`_aaa__aa¥`]aaaa_a`_`U`a`W`_]aS`_]`^
@HWI-EAS443:3:56:1039:1768#0/1
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+HWI-EAS443:3:56:1039:1768#0/1
a_aaa]`a`a`^_^^aa]a_]_Y`_````^]V]]^
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+HWI-EAS443:3:58:1605:629#0/1
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+HWI-EAS443:3:58:627:1284#0/1
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+HWI-EAS443:3:63:642:142#0/1
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@HWI-EAS443:3:65:1401:251#0/1
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+HWI-EAS443:3:66:674:511#0/1
VFU[^aW¥¥Z_b^TZ`aaaZ¥]0]`bWL_^_JZ`ZVQ^[
@HWI-EAS443:3:67:1641:83#0/1
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+HWI-EAS443:3:67:1641:83#0/1
]_¥K__YVaab¥¥baa^PGSWV^`_a]WJRa¥^YTGXUYX
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a`a`_]_aaa`aaaa`aaa`][aaba`aa`aaZXW__`
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_`babbb[`aab_aaa^[`]^X¥I]a`a]a`aaa_a_a
@HWI-EAS443:3:72:961:1739#0/1
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+HWI-EAS443:3:72:961:1739#0/1
a`[U]^`aa¥¥¥`[``_[a`]a^a_a`_a`[_]^Z_U
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+HWI-EAS443:3:74:1599:1375#0/1
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+HWI-EAS443:3:77:964:763#0/1
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aaaaaaaa^abbbaaa_aaaa_a_^]aa^a`_____¥`
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abU_XZ]``a`_XX`a`a]USQR[^[_``]YU]^Y^]_]]

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]¥`a`a^`]]ZYFWS_a`Ha]`baYaa[G0]a]aUZVQF
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GATGGCCCAGCATTAAAGCATCAATGAACTGAGCAATCTTG
+HWI-EAS443:3:10:1052:1867#0/1
][a¥b^b__^Xa]aabb_aaaa`a¥_¥__Y^aaa^]Ya]`
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+HWI-EAS443:3:10:117:332#0/1
abbabbbab_Kabbaaa`baaa^a[`]aaa``aaaY]a``
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+HWI-EAS443:3:12:1144:55#0/1
`b_Z_W¥^aa```a`a[`b¥aa`a_^]]a`a[_a¥¥a__
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`a¥^`_0OW_]aWYWY_GT`[V¥___XSYJ^ZR```S^WD
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aba`baaabaaaaa`aa__a`]`]a^`^`^]^^`^__
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+HWI-EAS443:3:17:1486:1739#0/1
ZX]_WYb`Y`]aa[a_aZ[]XYa`a`RVU]_a[]_]_[-
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+HWI-EAS443:3:17:175:1808#0/1
¥`_`bbbaa`_bba]baa[^ab_]J`ab]]a`Zaaaba
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+HWI-EAS443:3:24:1680:751#0/1
`^a`ZZ¥_]_]_]_S`][Z_]¥a[a`a`]VP`Y[UY[_
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+HWI-EAS443:3:25:1321:140#0/1
HYa^_aab`aa¥¥a_aabb`b_abbbaabbbab_bbab]
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+HWI-EAS443:3:26:1651:967#0/1
aab_aa]aabbb])bba`aa`b_`Tab¥a^_[a¥[aXD
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^OZZba_]_`ZSZ_a_aZ`[ZT_^ba^Y][[YU^P_ZZ
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+HWI-EAS443:3:33:584:1426#0/1
^Z^`baX_]`b^aa[`^_a__a`¥_¥SZZS]_VVVW¥
@HWI-EAS443:3:36:1743:2003#0/1
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+HWI-EAS443:3:36:1743:2003#0/1
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+HWI-EAS443:3:37:867:1331#0/1
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+HWI-EAS443:3:40:993:863#0/1
Y^a`^_bbaaa_a_¥aaab`_Z¥b_a`abab¥bbaaa^0^

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+HWI-EAS443:3:49:342:1327#0/1
ab`aabbba`aa`aa`abb[aaaVW[^a^a^X[_aa^a_a
@HWI-EAS443:3:51:462:1145#0/1
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+HWI-EAS443:3:51:462:1145#0/1
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+HWI-EAS443:3:54:568:1023#0/1
_XX^`¥^^¥OWU¥_V]YWaY^^¥UXT_`[¥X¥`]W]XU_^
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+HWI-EAS443:3:57:1645:159#0/1
````\_U`]bbbaaZa\_baaaa`^]b^`]¥`aaa\_a^````\_  
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+HWI-EAS443:3:58:1034:251#0/1  
`ba^P[abXabaaR`Z\_\_¥¥``aZ]^\_\_X\_XQ\_W`R¥¥T¥  
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+HWI-EAS443:3:62:1175:208#0/1  
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+HWI-EAS443:3:63:1091:932#0/1  
abbaI¥\_\_PPY^¥bbbb`]R]T¥SJ]^`Z`Z`NZ`\_[Z[N¥  
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+HWI-EAS443:3:65:541:764#0/1  
a\_\_¥[Y¥aaaWaYV]X]aVY\_YZ^`WN[ZPW\_`^^\_Z]Y  
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+HWI-EAS443:3:69:1235:790#0/1  
aa`Y`Y`\_a[\_]a``aa¥V]^`aUaZ\_a]\_Y\_VU¥X\_P¥  
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+HWI-EAS443:3:69:1451:1397#0/1  
\_\_`^^\_a\_\_`W[ZV\_W[[Z^`X^Z`aa^¥T`Taa\_W[a¥a  
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+HWI-EAS443:3:69:1792:1488#0/1  
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+HWI-EAS443:3:6:1617:1368#0/1  
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`a`S`aa]V\_`¥`\_RZ`a\_aa^ST``]Z]V¥Y]aZ\_Y`  
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+HWI-EAS443:3:73:425:1732#0/1  
aaab`a`a\_^]``]a]a`V¥Z]```¥\_\_\_¥¥JITa`^]\_\_  
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+HWI-EAS443:3:80:677:1904#0/1  
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+HWI-EAS443:3:89:1136:285#0/1  
`a^^abb\_UY\_¥UU¥\_\_TXR¥\_]`^GX``]XUN][^`]XRa  
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+HWI-EAS443:3:89:1666:219#0/1  
`a`^bbaaa]\_a^aa`aaa^a`^U^a¥^]aaUaV\_\_U`H\_  
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+HWI-EAS443:3:90:1226:687#0/1  
aba\_`bbabbb`a\_bb`aabaaZaaa^a[`\_a``\_aaa\_



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``\_a`ZY`a\_a\_[OFXXV\_]X\_\_\_\_¥Z\_\_\_\_]¥TPX]]YXB  
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¥`\_Kbbbab`ab`]`bab[K]\_ba^YY\_[W``abaa^\_]`  
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+HWI-EAS443:3:100:570:415#0/1  
ab`^ZZa]¥\_aaa^`aaaa\_`\_a]\_\_b]Y\_\_[\_a\_aa``B  
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+HWI-EAS443:3:100:571:202#0/1  
^YVab`\_^aa\_a\_\_`\_aa`\_\_`a\_\_\_\_a\_a]\_`\_U\_]`[B  
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+HWI-EAS443:3:100:580:52#0/1  
a[\_a[\_NLW\_W]¥\_VU¥¥U\_\_ZW^W]\_W¥YSY\_¥BBBBB  
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+HWI-EAS443:3:100:698:575#0/1  
`ba¥\_H0¥ZX]\_]aa`¥aaba¥^aab`\_aa`S`\_¥N\_IT`  
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+HWI-EAS443:3:100:731:499#0/1  
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+HWI-EAS443:3:100:798:341#0/1  
abaa``\_aaa\_aa\_\_\_\_aaa¥``\_^a`\_a`\_`^`\_¥]`\_]  
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aa[`b^XY^`aSP\_a¥WZaa¥LOY`0Ha[a[\_SWa`a^`]  
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+HWI-EAS443:3:100:902:515#0/1  
]YF]```b`X`ZaX^```\_ba]bba\_¥D]b\_]b¥Ua`ZX  
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+HWI-EAS443:3:10:106:280#0/1  
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+HWI-EAS443:3:10:1103:1179#0/1  
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¥Y^]^^[\_`a`ZV\_]JWOX[]WZUR`¥^\_Sa]Z`\_ZX¥UX  
@HWI-EAS443:3:10:1179:539#0/1  
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+HWI-EAS443:3:10:1179:539#0/1  
a`aa]aX]¥Y\_]\_\_[¥^\_\_I[X[^^^\_Z\_I^^¥][[]\_X  
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+HWI-EAS443:3:10:120:828#0/1  
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+HWI-EAS443:3:10:121:1612#0/1  
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+HWI-EAS443:3:10:1257:1212#0/1  
aZ`¥Y\_^\_Z]a^)`^Y¥[]¥^¥]]Y]]\_U^]Y]]W]SUP  
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\_bbabb^aab]bbbb`bbba`ba`bbb`baT`aaPQO]`a  
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+HWI-EAS443:3:10:1422:738#0/1  
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aaaaa```aa][¥T¥U¥V`]]^Z\_\_XW]¥T]\_U]]VYQYT  
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+HWI-EAS443:3:10:144:1800#0/1  
W\_\_¥¥`\_¥U\_ba`^a\_UV`^b]\_XH]S¥Y\_^X`\_aabb]a  
@HWI-EAS443:3:10:1493:1071#0/1  
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+HWI-EAS443:3:10:1493:1071#0/1  
Z[bbb`^¥b``¥bbbbbbb`^`]baaa\_abaaa`^a¥\_ba  
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+HWI-EAS443:3:10:1493:1185#0/1  
abbaa`a]abaaaa]¥`\_a`a\_\_a\_\_\_\_\_WY[[[\_X^\_\_\_\_`  
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+HWI-EAS443:3:10:1496:107#0/1  
aTaU^Tba`ZWT]\_YJL[¥X]\_[[]¥RXUXVQRYXW]Z^  
@HWI-EAS443:3:10:1616:127#0/1  
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+HWI-EAS443:3:10:1616:127#0/1  
aaa^\_`z\_a\_]Z]^Z\_Z]X^Z]Z]XZZZZZZXXZZZZ  
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+HWI-EAS443:3:10:1748:1062#0/1  
ab^bbbbbbabb^Ubb`baba\_aabba\_\_^bbSaa¥`bb  
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+HWI-EAS443:3:10:391:643#0/1  
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+HWI-EAS443:3:10:414:427#0/1  
aba``bb^]0^aa`b`aaaaaaaa`aa[T`aa^\_aa`\_Y  
@HWI-EAS443:3:10:462:1260#0/1  
AACAATTCGACACTAATTGATGGCCATCCGAATTCTTTTG  
+HWI-EAS443:3:10:462:1260#0/1  
a``[]^a`^Z`\_S]a]]Y[\_[ZP¥``ULL\_]\_]WS¥^Z]]  
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+HWI-EAS443:3:10:534:1709#0/1  
\_`\_b`abXb]]baa]^¥K\_a`\_aba¥a\_`¥Xaba`¥bb`b  
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+HWI-EAS443:3:10:545:814#0/1  
LUR`¥`TX^\_QZ\_ZXUX^a[`aaSIaG^aY[aZRV[LX]]  
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AAGAGAAGAACCCCGCACTCAGAATGAAGTGGATGATGGC  
+HWI-EAS443:3:10:559:401#0/1  
\_aa`aRabab\_] [[```\_a`Za^a``\_^aV`\_\_\_\_^]a`^  
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+HWI-EAS443:3:10:574:1015#0/1  
^Xa^a[YZ^`^\_X`^Ka¥^LZX¥¥¥¥`¥Z`\_RSXSGOV\_S  
@HWI-EAS443:3:10:587:1462#0/1  
CAAGAGAAGAACCCCGCACTCAGAATGAAGTGGATGATGG  
+HWI-EAS443:3:10:587:1462#0/1  
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+HWI-EAS443:3:10:880:398#0/1  
^Y`ab`a[aZ^aa``\_`Za[Z\_a`Wa```YVU^`X]R`^  
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CAAGAGATATGGCCCAGCATTAAAGCATCAATGAACTGAGC  
+HWI-EAS443:3:10:902:1183#0/1  
\_X`\_¥`^¥^\_baba^a\_\_\_\_`\_`\_XXX`R^Wa`aaVXTaa¥  
@HWI-EAS443:3:10:96:1578#0/1  
AAGAGATATGGCCCAGCATTAAAGCATCAATGAACTGAGCA  
+HWI-EAS443:3:10:96:1578#0/1  
\_R\_Z\_a`Y0]QOU\_\_W¥aSXa\_Wa\_T\_W^````^`\_X\_¥^Y

@HWI-EAS443:3:11:1026:76#0/1  
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+HWI-EAS443:3:11:1026:76#0/1  
abbbaabaabab`aaabaab` `]ab\_aa`\_a`^aa` `a`^  
@HWI-EAS443:3:11:1027:766#0/1  
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+HWI-EAS443:3:11:1027:766#0/1  
a]]QP^\_aa]VR\_U[\_^Wa`Z\_`R`a`RU^G]\_]X`X]BB  
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+HWI-EAS443:3:11:1124:479#0/1  
T[Vaa`¥b\_W¥`a\_a\_XXa\_[H¥`Y\_a\_]a]a\_\_RL^[W^  
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AAACAATTCGACACTAATTGATGGCCATCCGAATTCTTTT  
+HWI-EAS443:3:11:1144:1275#0/1  
[aaa¥a^`^ZV[^T]^XZ]PQSN[F\_`[USLR\_dW[] `B  
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+HWI-EAS443:3:11:1182:1382#0/1  
aaaa]\_Ya\_a` `a`VX\_a`¥^a\_\_\_\_aa\_]a[\_\_\_a`^`\_`a  
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+HWI-EAS443:3:11:1196:99#0/1  
a`abb`^aa` `aaaaJ` [ab\_\_\_`aWVaaTX\_]\_\_aT`^UP  
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+HWI-EAS443:3:11:1247:1809#0/1  
aab¥babbbbabbbbaabbb\_ab\_bbbabba`bbb^bbbbb  
@HWI-EAS443:3:11:1326:559#0/1  
TAAGCATCAATGAACTGAGCAATCTTGCAAAAAGGAGAGAA  
+HWI-EAS443:3:11:1326:559#0/1  
^\_a`a^`a^b^^a`^a¥^b\_\_baY\_W\_V`aa`a^`baba\_  
@HWI-EAS443:3:11:1437:1251#0/1  
GACAAGAGATATGGCCAGCATTAAAGCATCAATGAACTGA  
+HWI-EAS443:3:11:1437:1251#0/1  
aaa`a`a`\_a`\_`\_\_^]aaX`\_\_]\_^]\_^[]Z]\_^XZU]]  
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+HWI-EAS443:3:11:1441:1964#0/1  
H\_^`^abbbababbZUa]\_bbaa`aaab0`\_W`a`b` `ba  
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+HWI-EAS443:3:11:1610:1783#0/1  
Nbbababaaba`aabbV^`^b^Y[Y[[M[I^]T[[ZLa[  
@HWI-EAS443:3:11:258:719#0/1  
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]Z\_aaa[[aaa`a\_\_a`aa`\_]`Ya\_]ZaX`\_¥X`QY\_Z  
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+HWI-EAS443:3:11:287:308#0/1  
a)`^]abaaaa`a`aZa`\_]Xa]\_\_[SW]Y]]¥ZX¥\_\_]]  
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+HWI-EAS443:3:11:331:1610#0/1  
`aaY\_aaa`\_\_`\_Ya\_`VZ`¥^V\_R\_]XX[YV^VVXY]Y  
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+HWI-EAS443:3:11:475:1290#0/1  
Z]^S\_abb`ZZ[aaaa`a\_`¥]a\_\_`aaJ\_Z\_\_^\_\_\_\_\_  
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+HWI-EAS443:3:11:559:486#0/1  
aaa\_a\_]WWa\_b[aaU[```]`^aWW¥[a\_^[\_V^a^a  
@HWI-EAS443:3:11:699:393#0/1  
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+HWI-EAS443:3:11:699:393#0/1  
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+HWI-EAS443:3:11:716:1670#0/1  
ab¥aaXGwa^\_SZVV[\_\_\_a¥ba\_a\_Z`a\_W\_ZXXa\_\_\_\_`\_  
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+HWI-EAS443:3:11:805:1189#0/1  
¥`^V^[XU¥V]^aa\_YZaXNZYa^[YW]a^¥[W¥`V^\_\_a  
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+HWI-EAS443:3:11:874:730#0/1  
]`b`]^XQHza`[WZ`X```[Z][[\_^\_][`¥Y\_^a]Y^G  
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+HWI-EAS443:3:11:927:70#0/1  
[aab[aa[]bbab\_V]abIZ`aaY¥aabaa][\_``^a^\_]  
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+HWI-EAS443:3:12:1123:393#0/1  
\_\_aab\_\_]aaa\_W^U\_]aa^X\_]X¥\_W]\_aa`a\_\_`\_`[B

@HWI-EAS443:3:12:1182:759#0/1  
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aa````^\_aa\_\_^`\_\_^^^W\_``[^[TRT]^\_^\_  
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+HWI-EAS443:3:12:1187:1456#0/1  
a`a]Yaaba`\_¥V]aY\_aa\_`a\_\_^\_\_\_\_V`[Z\_a[Z^\_S  
@HWI-EAS443:3:12:1238:500#0/1  
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+HWI-EAS443:3:12:1238:500#0/1  
a\_a`\_a\_a^\_[]a¥\_]\_^[]\_\_a[[aX`\_]`Y^^XXY  
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AAGAGAAGAACCCCGCACTCAGAATGAAGTGGATGATGGC  
+HWI-EAS443:3:12:1268:1039#0/1  
aaa\_baa]\_a`Y\_\_a]`\_a^^aX]\_a\_XaX\_a]\_a]V  
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+HWI-EAS443:3:12:1287:468#0/1  
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+HWI-EAS443:3:12:1325:1041#0/1  
`\_W`¥\_RU`¥¥WZa\_0[^]^\_T]^`XZ]T`^\_a`\_R¥YRB  
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aaabaaaab\_ba\_aZaaba\_\_``\_a`\_a\_\_`\_\_\_\_`\_\_^  
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+HWI-EAS443:3:12:1471:1141#0/1  
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+HWI-EAS443:3:12:1670:692#0/1  
aaa`]Ia`aaaa`\_`¥^\_\_0^````\_][\_]WZ`\_Z^Z^B  
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+HWI-EAS443:3:12:185:225#0/1  
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S\_a``ZW\_aZXaa¥abb```ab]\_Y`]a]`¥¥^^aa\_S]]  
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+HWI-EAS443:3:12:410:1228#0/1  
aa`aaaaab\_a\_a`aaaa`a`aaaa\_a`a`\_a\_\_a`^a¥  
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+HWI-EAS443:3:12:439:700#0/1  
aa¥`¥^`\_`\_`^^`^^`^^[T^]`^]]`^^X^^]^  
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aba`babbbaa^`[aI^a`\_\_a`aa\_]XMTU¥\_^]\_^X^\_  
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+HWI-EAS443:3:12:588:353#0/1  
ab]a`^bb\_\_bLWHa]`b\_a`\_aaaa^Ua\_aZ`\_`\_]  
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+HWI-EAS443:3:12:651:49#0/1  
^baaab^ab\_aa\_aaa\_¥\_\_^Z^^Z`\_\_Y`X\_]U]`XU]]  
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a```aaa\_aaa^\_]``aa`a`aaa`¥aVa\_\_\_\_`\_\_`URY\_  
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+HWI-EAS443:3:12:767:1677#0/1  
¥¥]b`V`a`a`\_\_Yaa^`^^`^`\_\_`\_]`\_\_XZa^`XSV¥  
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GAGAAGAACCCCGCACTCAGAATGAAGTGGATGATGGCAA  
+HWI-EAS443:3:12:775:1962#0/1  
a`aabaaa`\_a\_a¥a\_S\_]R`a`\_RDT\_^^\_TPW¥G^]  
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+HWI-EAS443:3:12:837:1140#0/1  
aa`Ra`]\_\_aa`baa¥`\_aa\_a[`a`\_``\_``]\_\_`]\_a^]  
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+HWI-EAS443:3:12:838:178#0/1  
a^ab¥a`\_a\_aa\_aP`¥\_Y\_¥XY¥^Z`XSY¥WUS[BBBB  
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+HWI-EAS443:3:12:928:580#0/1  
abababbab\_b`bbba`\_`\_a^bab`\_`[aab¥aa`ab]\_\_\_\_

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a``^aa`\_``Ta¥``a¥[¥]^[^`S]Z[YP^\_]`Z^W  
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```abaaa]a\_a`a``a`a\_[a`]a`a\_]aX\_`]\_X\_\_Z^  
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+HWI-EAS443:3:13:1349:931#0/1
Z^X`a`b_bbbbbY[_¥]``aa_W_ba_`aaaa_a^][
@HWI-EAS443:3:13:1467:1307#0/1
GTTCAATTGATGCTTAATGCTGGCCATATCTTGTCTTC
+HWI-EAS443:3:13:1467:1307#0/1
a^a^aa_a`aaYaa`^aa^a__`_¥_a_`^_Z_aaZZ``[
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+HWI-EAS443:3:13:1477:1094#0/1
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@HWI-EAS443:3:13:147:775#0/1
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+HWI-EAS443:3:13:147:775#0/1
aa`_a`¥a`_``__a_``_Z¥__^_¥__]_^[_]U
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+HWI-EAS443:3:13:1553:1859#0/1
abb_abb`a`b_`abaabbbabbbbbbba`bb^bbba[Y[
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+HWI-EAS443:3:13:1579:463#0/1
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+HWI-EAS443:3:13:1589:691#0/1
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+HWI-EAS443:3:13:1695:1872#0/1
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+HWI-EAS443:3:13:170:1621#0/1
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+HWI-EAS443:3:13:262:85#0/1
a_TH_UY_R]_^K¥[¥NN[ZZWVZUZ`TUUU^YNLUVBBB
@HWI-EAS443:3:13:333:1966#0/1
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+HWI-EAS443:3:13:333:1966#0/1
a^aa_`aaa`_`a`_XGW`UW`_`^aYY`_`^_X`]__Z]^
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+HWI-EAS443:3:13:334:1831#0/1
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@HWI-EAS443:3:13:514:854#0/1
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+HWI-EAS443:3:13:514:854#0/1
ab_abaa`ba_baa`aaaa`_a__YW`Y`_`^¥Xa___^¥`
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+HWI-EAS443:3:13:655:1192#0/1
`_`^[]_WaaaaX^Y[`a¥V`_`_a`_]`X¥`]]a__ZY_R
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+HWI-EAS443:3:13:729:1619#0/1
_aZOM[___`_`aS`JH`_`^USV`_`XU]_S^]YNU[PIV`R
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+HWI-EAS443:3:13:78:22#0/1
^S___X^ZV`_`_`aN]__^_`¥_`^_]T^X]]WUU]_YR
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+HWI-EAS443:3:13:83:246#0/1
_`^Y_UWaaaaa`a`_V_`^_`_]¥`U`_]`XU]_`^YHSP
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a`babbabbaaaaaaaaaaaaaYaaa`^a]`a`^a^___^]_
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+HWI-EAS443:3:13:961:70#0/1
aaXYaaa`a]¥P_X`a`_`a^X][aWa]¥Z]`_`^WW]_X]Z
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+HWI-EAS443:3:14:1034:1981#0/1
a`_`a^_a]X`_`a^`_`[Z^W`^^URW[_`^NT]]X]^U^UW
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+HWI-EAS443:3:14:1048:1401#0/1
__TORVXR__¥¥^^ZTX_Y]`_`¥P[UK[_TNYQQ][[¥[^

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a_a` `` `a__^^_]_]_[^__X^_^] []^^ZZ^^ZZZZ
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+HWI-EAS443:3:14:1238:42#0/1
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@HWI-EAS443:3:14:1252:1576#0/1
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+HWI-EAS443:3:14:1252:1576#0/1
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+HWI-EAS443:3:14:1417:308#0/1
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+HWI-EAS443:3:14:1476:1597#0/1
`aaaa¥aaaaa_`¥`_`__`aa[]]^__¥a`^^Z]_¥TLT
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+HWI-EAS443:3:14:1567:1500#0/1
aabab_aaaaaaaaaa][aaa`_[_^`a_¥_^]X_^`^U_
@HWI-EAS443:3:14:1638:79#0/1
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+HWI-EAS443:3:14:1638:79#0/1
a^`¥R_ZTVWYG TU^RNQXSSMXRZ]Q]XSTTTXMUGBB
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+HWI-EAS443:3:14:1650:1667#0/1
VX`bU^^bb_P]Y` [¥¥b`ba¥^_W`WZWGMS^U¥Z`a]_
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+HWI-EAS443:3:14:333:1293#0/1
_]aaaWa[^`^a____]`_Y`Q`a` [aa`^W] [_S`^__ [
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+HWI-EAS443:3:14:43:1440#0/1
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+HWI-EAS443:3:14:477:1582#0/1
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ZYX__WP]S[]]Q_^[XX[_a_`[aa`Y¥[HSY`¥[]^0
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+HWI-EAS443:3:14:537:1659#0/1
_aa`abbbaa`abaabab]baaa^`Yaaaaaaaa`_aaa_
@HWI-EAS443:3:14:601:976#0/1
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+HWI-EAS443:3:14:601:976#0/1
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+HWI-EAS443:3:14:749:1578#0/1
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aa`a`a`aaa^a_`a`a`_¥^`_[_a_]Y_X`^`____[
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+HWI-EAS443:3:14:752:1859#0/1
]¥_bb^aabb¥b_`a`_[_`^a^a_G`UaS`^^[XU_UY_
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+HWI-EAS443:3:14:755:716#0/1
aa_b_aa`_`_a_Y_`^^[^`_]`ZZX^^^_]^^[V[B
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+HWI-EAS443:3:15:103:455#0/1
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+HWI-EAS443:3:15:1128:1918#0/1
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+HWI-EAS443:3:15:1412:1421#0/1
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+HWI-EAS443:3:15:1468:1584#0/1
a`^_a^Z_Z`^Y_``aa`]]aZ]``X^]Qa`^YO[`a]a^
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+HWI-EAS443:3:15:1479:1794#0/1
aaW`_baa_`^`S_a__Y_`^`__a__`TT__¥]_]__`X^
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GAAGAACCCCGCACTCAGAATGAAGTGGATGATGGCAATG
+HWI-EAS443:3:15:1484:1598#0/1
a_[`^aaaaa`aa_`]][_`_]P]W`_]_`Y[a[SUTV[
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+HWI-EAS443:3:15:1491:721#0/1
^`aX__ab_aaa`_[IX_aaa¥a`_N¥^^`]`a__`^R
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+HWI-EAS443:3:15:1629:790#0/1
¥Va`^`aSS¥Y_¥`L[W]`I`baW_¥_aabXXb¥a¥^^aa
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+HWI-EAS443:3:15:1635:1751#0/1
`aaa_aa]ba^aaaaS¥`aa`a_[a]^`^`__W`][^
@HWI-EAS443:3:15:1688:1315#0/1
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+HWI-EAS443:3:15:1688:1315#0/1
_aaaab_aa_aaa_aa_a`````_`_]````_]`^a_`^`^`
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+HWI-EAS443:3:15:197:125#0/1
abaaaba_aabba`aaZa`a__`_`^b__¥`^aVa``^a_
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+HWI-EAS443:3:15:299:1698#0/1
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@HWI-EAS443:3:15:301:1835#0/1
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+HWI-EAS443:3:15:301:1835#0/1
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+HWI-EAS443:3:15:313:935#0/1
`_`^`aaa_ababa`a`a```baa__^U[] []aba^`__¥
@HWI-EAS443:3:15:345:1659#0/1
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+HWI-EAS443:3:15:345:1659#0/1
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@HWI-EAS443:3:15:360:77#0/1
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+HWI-EAS443:3:15:360:77#0/1
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+HWI-EAS443:3:15:502:677#0/1
a`babTRaV`a_]aR0^^a^aa¥_`^W_aZ_[L][U[^[_Y
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+HWI-EAS443:3:15:671:845#0/1
aa¥ababaa[aaa`abaaaaaa`aaaaaa[___aaaaaa`¥
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+HWI-EAS443:3:15:76:906#0/1
ab``_aaaa`__aa`a`a`a`_¥^^_[_aa^``]`____`[
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+HWI-EAS443:3:15:876:1458#0/1
a^]_Y^`]W]W]aaYZH¥T_a[^`^¥^XWY^]_ZUZ]^]U
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+HWI-EAS443:3:15:910:1190#0/1
aaba`aRW¥__a¥aaa`aaa]a``Y_aa^^Y_]U_[_a``
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+HWI-EAS443:3:15:924:218#0/1
Xb[Q_U]`Y^aa]aaY_ZJ_Z]]][bJ[_T`aX__a]aaY
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+HWI-EAS443:3:15:945:949#0/1
aaaaaaa`^__Y_a`aaaa`aa``____`^`_¥]^`_]`^_
@HWI-EAS443:3:15:956:1088#0/1
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+HWI-EAS443:3:15:956:1088#0/1
_Y__R]S_`a_a^ZT¥`[_[T^[]`Q_baa`¥K[abaa^W

@HWI-EAS443:3:15:995:466#0/1
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+HWI-EAS443:3:15:995:466#0/1
aaba[¥a_Y]¥ZXZ^a^ZWU_¥UY]__JP[R_YW]b`I^W
@HWI-EAS443:3:16:1046:254#0/1
TAAGCATCAATGAACTGAGCAATCTTGCAAAAGGAGAGAA
+HWI-EAS443:3:16:1046:254#0/1
TaaQ[PYVX_`^K`[VU]R`[aUYV^^aXF_VXX_]W`^P
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+HWI-EAS443:3:16:1113:558#0/1
`_Za¥bb`ab_¥P¥]ab`aabab]a`YP_G¥a_`a]]a¥
@HWI-EAS443:3:16:111:539#0/1
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+HWI-EAS443:3:16:111:539#0/1
a`a`^`aa`aaa^a`¥_`^^_a^)`Ya_^^`X^]]XX]]
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+HWI-EAS443:3:16:1124:516#0/1
Z]Z^^_`aba`_Z`_aaUUa[_HU_RFJ[`X]]_]_]S`
@HWI-EAS443:3:16:1571:806#0/1
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+HWI-EAS443:3:16:1571:806#0/1
aaab``baaab`a¥aa_baa`baaaa`__`_aa^a_aa_
@HWI-EAS443:3:16:166:87#0/1
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+HWI-EAS443:3:16:166:87#0/1
]^I0]^UTSQ^R`ZRS]_]`[[`L[_[WGZJTTLPVV^U[_
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+HWI-EAS443:3:16:1776:1129#0/1
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+HWI-EAS443:3:16:209:533#0/1
]b_b`][`]a^)`]S]a`_[^`Z]`[``[YX¥a^_`^a_
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^a``^b^¥`b_b^baaaabaaba`a[aab`aaabaa_aaa
@HWI-EAS443:3:16:293:844#0/1
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+HWI-EAS443:3:16:293:844#0/1
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@HWI-EAS443:3:16:307:1115#0/1
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+HWI-EAS443:3:16:307:1115#0/1
a_aaa[abZ``¥]_aa`a]a^a`_a`aa^Ua[b_____aa`
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+HWI-EAS443:3:16:541:413#0/1
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+HWI-EAS443:3:16:593:114#0/1
aaa_aaa`_`a`_^^^a___`__XMZ_^Z^^]__]ZZZ^
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+HWI-EAS443:3:16:600:837#0/1
aY]]S][aW_Y_^UT_`^][¥_PMX]^^ZV]]_]YXWWW]
@HWI-EAS443:3:16:640:1381#0/1
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+HWI-EAS443:3:16:640:1381#0/1
aa_¥R_a`b_aab`K[aaaa^a_Vaa_aa_Y^___a^`_`_
@HWI-EAS443:3:16:730:321#0/1
AGAAGACAAGAGATATGGCCAGCATTAAAGCATCAATGAA
+HWI-EAS443:3:16:730:321#0/1
`]a``^aabWb_a^Va_aa^`^a]_____]UTYZ[W]Z_
@HWI-EAS443:3:16:804:312#0/1
AGAAGAACCCCGCACTCAGAATGAAGTGGATGATGGCAAT
+HWI-EAS443:3:16:804:312#0/1
aba`^_Z_aaaa^¥_`aaa_V`a[V]Waa[]¥W[V`Z^ZW
@HWI-EAS443:3:16:95:964#0/1
AACAATTCGACACTAATTGATGGCCATCCGAATTCCTTTTG
+HWI-EAS443:3:16:95:964#0/1
¥`_ZZ[NYZWa)`¥[_^^`a`^¥a_`^`^W]^Y[]`_]`
@HWI-EAS443:3:17:101:322#0/1
GTCAGCAAAATGGGAGTAGATGAATACTCCAGCACGGAGA
+HWI-EAS443:3:17:101:322#0/1
a````bb^J`]aaa^][aaaa`a`^_a_aa`aa`]S_W_N
@HWI-EAS443:3:17:1059:563#0/1
AGAAGAACCCCGCACTCAGAATGAAGTGGATGATGGCAAT
+HWI-EAS443:3:17:1059:563#0/1
_Z_abZb`a_¥b_a`_a¥b_]VTXaUa_Q_a]]_`WUY^
@HWI-EAS443:3:17:1245:428#0/1
GAGAAGAACCCCGCACTCAGAATGAAGTGGATGATGGCAA
+HWI-EAS443:3:17:1245:428#0/1
a^a`ba_a`aaaa`_`_ab_]aa]_aZaa]__Y]a_YX]

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@HWI-EAS443:3:17:1286:113#0/1
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+HWI-EAS443:3:17:1286:113#0/1
``baaaaaa`aaaaab`a`a`_a`W_^```__W_^a^
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GCAAAGAAGACAAGAGATATGGCCCAGCATTAAAGCATCAA
+HWI-EAS443:3:17:1547:264#0/1
aaaaabbbbaa]a_a`a_a`a_[W]__¥a`^_^_0_^U^^
@HWI-EAS443:3:17:1560:437#0/1
CCAGCATTAAAGCATCAATGAACTGAGCAATCTTGCAAAAAG
+HWI-EAS443:3:17:1560:437#0/1
_`¥a]`a`a^^]_a^a``]S_Zab`a¥`aa_Y^]`XN¥_
@HWI-EAS443:3:17:1583:1017#0/1
AGAAGACAAGAGATATGGCCCAGCATTAAAGCATCAATGAA
+HWI-EAS443:3:17:1583:1017#0/1
`baa]^aYR^]SY__WYZYPSU`_a`Y[N[W_SWWP[X^
@HWI-EAS443:3:17:1660:34#0/1
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+HWI-EAS443:3:17:1660:34#0/1
abbabbbbabbbabbaaaa__aaaa`baa[a`a`b`^aa
@HWI-EAS443:3:17:1671:393#0/1
CAGCATTAAAGCATCAATGAACTGAGCAATCTTGCAAAAAGG
+HWI-EAS443:3:17:1671:393#0/1
aabaaaabaa`aa`_baaa_a`a_]a`a¥a`a[]_^^`_
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+HWI-EAS443:3:17:1703:570#0/1
_^]bba_a]T[TWR]aaa_^`XH`]`Ya^a`a_T^_[a¥
@HWI-EAS443:3:17:1744:1673#0/1
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+HWI-EAS443:3:17:1744:1673#0/1
[`[^Y_^`^_]WaTVVZ__S`¥[[_b_YV¥¥¥`X`^V`X
@HWI-EAS443:3:17:192:1412#0/1
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+HWI-EAS443:3:17:192:1412#0/1
_S_aab_baababaaaa]^a[]aaaa`b]aaa``aaaa
@HWI-EAS443:3:17:291:466#0/1
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+HWI-EAS443:3:17:291:466#0/1
baU¥b]abba`ab]^`[S__U]]UYTSVZUXZNTUV¥0
@HWI-EAS443:3:17:351:539#0/1
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^`bbbbbbbaaa^bbbbbbbaababaabaaa`][a]_a
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a^aaaa`a`a_] [a`a_a`aa_a`_a____`_]¥[^^^]W
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+HWI-EAS443:3:17:469:231#0/1
_Ybb`Y`_a_¥`bb]`aa`b`_aa[a_^aa`_^
@HWI-EAS443:3:17:494:1645#0/1
AGATTGCTCAGTTCATTGATGCTTAATGCTGGGCCATATC
+HWI-EAS443:3:17:494:1645#0/1
aaaaaZaabaa^__`aa_aa_aa`a]]_a^_Z¥__a`_`_
@HWI-EAS443:3:17:671:505#0/1
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+HWI-EAS443:3:17:671:505#0/1
a¥`aabaaXabb¥aaab`aaaaa]aaaa^_YaUN_R¥`
@HWI-EAS443:3:17:739:169#0/1
GAGATATGGCCAGCATTAAAGCATCAATGAACTGAGCAAT
+HWI-EAS443:3:17:739:169#0/1
a`aaYa`a`¥]S^a_] ^`^W]]^]_^XY^XXWX]UZ^X
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+HWI-EAS443:3:17:82:1465#0/1
`b`abbabaaaaab^0_aaaaaYa`abaa`T`a`_`aYXaW
@HWI-EAS443:3:17:842:491#0/1
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+HWI-EAS443:3:17:842:491#0/1
abb`baabababaaa`_^`a_a`]]a`^^`^_aa`_]]
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+HWI-EAS443:3:18:1013:1626#0/1
a]T_USa]]^`^`_NVWURWYZPZ`^`_YVOOTRIVLW[O
@HWI-EAS443:3:18:1034:964#0/1
AGAGAAGAACCCCGCACTCAGAATGAAGTGGATGATGGCA
+HWI-EAS443:3:18:1034:964#0/1
¥ZUWOWa`a]]_a]__`RUZ`_aGU`Z^X`¥__GGVY_
@HWI-EAS443:3:18:1069:884#0/1
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+HWI-EAS443:3:18:1069:884#0/1
a_Y`¥`]Z__ab`_`aa_aZ`aaa]_a`aa_]a_Y__a¥`
@HWI-EAS443:3:18:1133:285#0/1
GAAGAACCCCGCACTCAGAATGAAGTGGATGATGGCAATG
+HWI-EAS443:3:18:1133:285#0/1
]_]¥V_^Z^`a]`a^^^`VZV^]¥_V` [¥^_VU[ZRW[R[^
@HWI-EAS443:3:18:1223:425#0/1
GAGATATGGCCAGCATTAAAGCATCAATGAACTGAGCAAT
+HWI-EAS443:3:18:1223:425#0/1
a_b^`a`aa`^`_aT`_`^`_] ^`X^`^`XLXT]Y]R¥]^
@HWI-EAS443:3:18:1253:1174#0/1
AGAAGAACCCCGCACTCAGAATGAAGTGGATGATGGCAAT
+HWI-EAS443:3:18:1253:1174#0/1
aaba^aa`a`aaaa__a`a`^a`_^[YRUaV__`_`^^^

@HWI-EAS443:3:18:1364:1595#0/1
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+HWI-EAS443:3:18:1364:1595#0/1
^^^`bZbb]`b]]ZbYbba¥ab_baab¥¥MaIIbbG`Y
@HWI-EAS443:3:18:1409:110#0/1
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+HWI-EAS443:3:18:1409:110#0/1
V_[P_XY^aa_Z_b`bab^RX]Tba]]^¥`_a]P_]`__
@HWI-EAS443:3:18:1469:833#0/1
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+HWI-EAS443:3:18:1469:833#0/1
aaaa]VaaaaY_a`^][ZW¥¥W]TTVQWX_`^_XYP¥UY^
@HWI-EAS443:3:18:1495:1246#0/1
GCTGTTGCTCTTCTCCCAACCATTGTGAATTCTTCATACC
+HWI-EAS443:3:18:1495:1246#0/1
aaaaU^_aa`aa^`a_`[[[]]QZ`XZ¥YMW`TY_XMW
@HWI-EAS443:3:18:1508:1666#0/1
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+HWI-EAS443:3:18:1508:1666#0/1
aaaaaaaaa`^Uaa`]]]]U[^Z[_X]_V[ZWX^XX[XV
@HWI-EAS443:3:18:153:1549#0/1
TTAAGCATCAATGAACTGAGCAATCTTGCAAAAGGAGAGA
+HWI-EAS443:3:18:153:1549#0/1
aabaabbabba_^`aaa`a`aba`_a`aaa`aa``aaa
@HWI-EAS443:3:18:1545:1228#0/1
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+HWI-EAS443:3:18:1545:1228#0/1
aabb`aa`aaaa_a^a¥[W[^`aW__aZ`^^_a_^a_^`^
@HWI-EAS443:3:18:1579:1200#0/1
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+HWI-EAS443:3:18:1579:1200#0/1
aZZ]`aa[¥_`]^]^^]_^_XZ`^_^_Y_]^[Z]XZ
@HWI-EAS443:3:18:1580:219#0/1
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+HWI-EAS443:3:18:1580:219#0/1
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@HWI-EAS443:3:18:1593:550#0/1
AGAGAAGAACCCCGCACTCAGAATGAAGTGGATGATGGCA
+HWI-EAS443:3:18:1593:550#0/1
¥VQa`aa`a[NNa`^`_`^`____a^^aXaRU_aQ[ZYZJP
@HWI-EAS443:3:18:1756:1617#0/1
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+HWI-EAS443:3:18:1756:1617#0/1
S_b`abbab]^][Zbbbbbb`ab`_a_X`a^aT_`Ra``W^
@HWI-EAS443:3:18:298:723#0/1
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+HWI-EAS443:3:18:298:723#0/1
a_V^aaaaaaaa`__`^`^`__`]^a0a`]^_]`][NUY_
@HWI-EAS443:3:18:299:654#0/1
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+HWI-EAS443:3:18:299:654#0/1
`_abbababa_babbb`b][ab[]]_a_``aa`aa`a[`b
@HWI-EAS443:3:18:404:2036#0/1
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+HWI-EAS443:3:18:404:2036#0/1
ab_`b`a¥^b`a_b]VJW^Z¥_a`[]^`Y_^a^]Y__]
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TTAAGCATCAATGAACTGAGCAATCTTGCAAAAGGAGAGA
+HWI-EAS443:3:18:535:1153#0/1
aa_^`aaaaaa`_`a^[]a_`[___`a`____`__`a`
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CAATTCGACACTAATTGATGGCCATCCGAATTCTTTTGGT
+HWI-EAS443:3:18:598:1429#0/1
aa¥a¥a`_`aaaa¥`_`a^^Wa`a^Z`Z_[__^^]]^W[V
@HWI-EAS443:3:18:690:1322#0/1
AGACAAGAGATATGGCCCAGCATTAAAGCATCAATGAACTG
+HWI-EAS443:3:18:690:1322#0/1
`_]V^OQ¥`a_a]]`YY`¥¥aaa_T`__a_]_]_]_]W[U
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+HWI-EAS443:3:18:755:1604#0/1
aba_a]]aaaa_aaa__a_`_`__^]WMYX__V_¥_]]
@HWI-EAS443:3:18:832:1427#0/1
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+HWI-EAS443:3:18:832:1427#0/1
RO^WYb[¥W¥Zaa^Z^¥UZ`ZSZ¥_HIa^abaSXY]]¥GU
@HWI-EAS443:3:18:835:906#0/1
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+HWI-EAS443:3:18:835:906#0/1
aa`_`aaaaaaaa`_`aa`____`_]`^^`_`^____X]]_`
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+HWI-EAS443:3:19:1023:575#0/1
aaabaaa`_`aaaa_a`_a_a`a__aW`a^[a¥¥aa¥¥¥¥
@HWI-EAS443:3:19:1039:1222#0/1
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+HWI-EAS443:3:19:1039:1222#0/1
^]b¥a¥Q^Z¥TXU¥`^¥]HW¥^^T^^]¥_LZ`Y` `a`Y[a
@HWI-EAS443:3:19:1063:1896#0/1
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+HWI-EAS443:3:19:1063:1896#0/1
aa_bbbaa^a`abb`aaabaaabaaabaaaa_aaUa`a
@HWI-EAS443:3:19:1103:407#0/1
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+HWI-EAS443:3:19:1103:407#0/1
aaa]`]a`T`XZaX]_a[`_`_]`]W`[X_a¥UJMY]^XX^
@HWI-EAS443:3:19:1127:1410#0/1
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+HWI-EAS443:3:19:1127:1410#0/1
aaa__aa^T_`a¥`_`a`^__a^^`^`____[_`_]Z_^^^

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+HWI-EAS443:3:19:1160:801#0/1
ab`baaaaaaaaa_aa`Y^a_aa_]a`_`_]_aa^____`
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ATTGATGCTTAATGCTGGGCCATATCTCTTGTCTTCTTTG
+HWI-EAS443:3:19:1452:40#0/1
`Z^b]^____`aaa¥^a_a__R[`a`_]`YJXa]aS`^Y[
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+HWI-EAS443:3:19:1506:630#0/1
a`aa_0¥aa]`[_a`aaaa`]_¥_a]a^^^aW^_a^YOY
@HWI-EAS443:3:19:1610:810#0/1
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+HWI-EAS443:3:19:1610:810#0/1
_bb_bb_`b`^aba]b_a^^baaa`a`bUbaa`a_aXU
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+HWI-EAS443:3:19:1646:496#0/1
`aabaa]ZWQb__^a¥_a¥`_`^^_]aYS^`]V_VUUU]^
@HWI-EAS443:3:19:34:449#0/1
ATTAAGCATCAATGAACTGAGCAATCTTGCAAAAGGAGAG
+HWI-EAS443:3:19:34:449#0/1
aY`a¥_aa_a`ZP____`[XS^`[`X[`^^¥[P[_X^
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+HWI-EAS443:3:19:487:1654#0/1
a`]aaa`a_a_a^]_`__`]^_]_`[_Z`^]Z^_Z]
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@HWI-EAS443:3:19:692:1523#0/1
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+HWI-EAS443:3:19:692:1523#0/1
abbba^ababbaba¥a^]a_U_aa_aaa__a_]^__W¥]`
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+HWI-EAS443:3:19:74:1575#0/1
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+HWI-EAS443:3:19:774:1820#0/1
a`aa_baaa[`^]aaaSa_]____a_¥^HUa`^__^_[]
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+HWI-EAS443:3:19:833:459#0/1
a__`^`aa`ab``aaab__aa[_aUb^Z^a]`_]TW^^
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+HWI-EAS443:3:19:840:1458#0/1
aa[ZaaaT[[V^X]_]GP]Y[[^YS_`V]X[NQ[WX^Y
@HWI-EAS443:3:19:87:1405#0/1
AGCATTAAAGCATCAATGAACTGAGCAATCTTGCAAAAAGGA
+HWI-EAS443:3:19:87:1405#0/1
aa`[_a_]`aaaa]^`a`T]]`[]`X`_a`¥W[]^
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AGACAAGAGATATGGCCCAGCATTAAAGCATCAATGAACTG
+HWI-EAS443:3:19:898:1983#0/1
a¥`_`^ZZ[^_VZ^X[^]YY`]Z`XTRV^Z]^ZWWZXS
@HWI-EAS443:3:19:898:467#0/1
CAATTCGACACTAATTGATGGCCATCCGAATCTTTTGGT
+HWI-EAS443:3:19:898:467#0/1
abbbabaaaaaaaa`a`_aa`^aa__`a__`a___a^aT]
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+HWI-EAS443:3:19:908:922#0/1
_a[ba`XaW`abaaa^]U]a¥V`a^a]]^Xa`_WU___a
@HWI-EAS443:3:19:911:1821#0/1
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+HWI-EAS443:3:19:911:1821#0/1
[``_U`aX`aaa^__^bba__^^^aY_R_a`Z``WU¥UX
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ababbbabaababbabaaaaaaaaaaaaa`aVaa_`a____
@HWI-EAS443:3:19:954:1816#0/1
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+HWI-EAS443:3:19:954:1816#0/1
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+HWI-EAS443:3:1:1003:966#0/1
`abaa`_baaaa]]`_aa_aWaa_aba^_a^a````^`aB
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+HWI-EAS443:3:1:1039:1558#0/1
`a`a_]a`Ua`aY^aa_ab_`a`^aa__`_¥`aJ```_`^B
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+HWI-EAS443:3:1:1085:109#0/1
aaaa`U^aS^_aa]_]`a^`_¥^_[_`^][Y^^SQaBB
@HWI-EAS443:3:1:1222:206#0/1
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+HWI-EAS443:3:1:1222:206#0/1
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+HWI-EAS443:3:1:1296:1812#0/1
Y[aabbbaba_bbaaab_a^baabaab_¥_aaWb_bbaB
@HWI-EAS443:3:1:1310:350#0/1
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+HWI-EAS443:3:1:1310:350#0/1
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+HWI-EAS443:3:1:133:1813#0/1
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@HWI-EAS443:3:1:176:1665#0/1
CAATTCGACACTAATTGATGGCCATCCGAATTCTTTTGGT
+HWI-EAS443:3:1:176:1665#0/1
]ab`]babab^bb`^`]bbab`IbaaLbba`bLbbbb^__
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AAACAATTGACACTAATTGATGGCCATCCGAATTCTTTT
+HWI-EAS443:3:1:202:1309#0/1
aa¥T_bb¥[[[aa]^UHTWPY[_TKWa`U[a^YBBBBBBB
@HWI-EAS443:3:1:308:332#0/1
TAAGCATCAATGAACTGAGCAATCTTGCAAAGGAGAGAA
+HWI-EAS443:3:1:308:332#0/1
[`ba`_RY`^^^a¥_abab]aaa_a^^`__aa`[aZ`BB
@HWI-EAS443:3:1:39:1641#0/1
AGAAGAACCCCGCACTCAGAATGAAGTGGATGATGGCAAT
+HWI-EAS443:3:1:39:1641#0/1
aVU¥WRYVYVS¥_`^`UMXYSY_QTBBBBBBBBBBBBBBB
@HWI-EAS443:3:1:546:1044#0/1
AACAAATTCGACACTAATTGATGGCCATCCGAATTCTTTTG
+HWI-EAS443:3:1:546:1044#0/1
_`baaaaaa^b`aaa`^^_aaZaZa_X_a`^^`X_aBBB
@HWI-EAS443:3:1:671:508#0/1
AAGAGAAGAACCCCGCACTCAGAATGAAGTGGATGATGGC
+HWI-EAS443:3:1:671:508#0/1
^`a^b__`_]¥V¥a]^`V]^X¥]]R¥aU`VY^`BBBBB
@HWI-EAS443:3:1:706:1209#0/1
GAAGAACCCCGCACTCAGAATGAAGTGGATGATGGCAATG
+HWI-EAS443:3:1:706:1209#0/1
T^ba[I¥YaU`_]`S]baV`bY_a]ab¥]`__aZDF^BB
@HWI-EAS443:3:1:753:1036#0/1
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+HWI-EAS443:3:1:753:1036#0/1
¥^aaabbabb[abbb]bbbab`^bbbbb_baba`¥a]Waa`
@HWI-EAS443:3:1:773:1676#0/1
CAAGAGATATGGCCAGCATTAAGCATCAATGAACTGAGC
+HWI-EAS443:3:1:773:1676#0/1
Vbbbbbbbbbabaabbb_bbb_baaKa`Wbbbb`aaaaaaY
@HWI-EAS443:3:1:795:1119#0/1
CAAGAGAAGAACCCCGCACTCAGAATGAAGTGGATGATGG

+HWI-EAS443:3:1:795:1119#0/1
abbbb`ab`ba`_abaa`aHaba`bba`^N^`aa^`BB
@HWI-EAS443:3:1:84:861#0/1
TATGGCCCAGCATTAAAGCATCAATGAACTGAGCAATCTTG
+HWI-EAS443:3:1:84:861#0/1
]b[V^aZ[`a^Yb`a`__a]Za`_]aaaS^UYO^BB
@HWI-EAS443:3:20:1054:1904#0/1
GAGATATGGCCCAGCATTAAAGCATCAATGAACTGAGCAAT
+HWI-EAS443:3:20:1054:1904#0/1
`a¥aaa¥`aa`aaabaabaa_aa`aaa_aa¥]^YWa`]
@HWI-EAS443:3:20:1078:660#0/1
CAAGAGAAGAACCCCGCACTCAGAATGAAGTGGATGATGG
+HWI-EAS443:3:20:1078:660#0/1
abbbaa`abaaa`ab_aaa`_a`aaba^a]ba_aa`__
@HWI-EAS443:3:20:1107:731#0/1
AAGAGATATGGCCCAGCATTAAAGCATCAATGAACTGAGCA
+HWI-EAS443:3:20:1107:731#0/1
a]^`aaba_a_aaaaa`aaaaa[`_a`aaa_____`_aW_
@HWI-EAS443:3:20:1302:1117#0/1
AGAAGAACCCCGCACTCAGAATGAAGTGGATGATGGCAAT
+HWI-EAS443:3:20:1302:1117#0/1
b]aV¥`¥T¥aV¥]^U]VX]^`[Ma`]a]`[[`^W
@HWI-EAS443:3:20:1481:367#0/1
AAGAGAAGAACCCCGCACTCAGAATGAAGTGGATGATGGC
+HWI-EAS443:3:20:1481:367#0/1
aa_W]]`aa][ZV_Y]^`_V]W[^^]_T¥^Z^aV][VL
@HWI-EAS443:3:20:1593:1274#0/1
AGAAGACAAGAGATATGGCCCAGCATTAAAGCATCAATGAA
+HWI-EAS443:3:20:1593:1274#0/1
`^`_a]^Z]^_a`V^Za`aS^XWRa`_]_]X]_Y]WV
@HWI-EAS443:3:20:1632:284#0/1
AGAAGACAAGAGATATGGCCCAGCATTAAAGCATCAATGAA
+HWI-EAS443:3:20:1632:284#0/1
_U`_aa[`abaaaaR^a]XW]aZa_aa`^F¥^U^_]^^^
@HWI-EAS443:3:20:20:1039#0/1
GCTCAGTTCATTGATGCTTAATGCTGGGCCATATCTCTTG
+HWI-EAS443:3:20:20:1039#0/1
^_]_W]ZZa^_]]]^`a_W_^]a_^P^`[¥]^X]YZ]^`
@HWI-EAS443:3:20:218:569#0/1
CAGCATTAAAGCATCAATGAACTGAGCAATCTTGCAAAAAGG
+HWI-EAS443:3:20:218:569#0/1
_UXY¥W_abZa^¥^aa^aa_¥]_`¥^Z]]¥aZ`__`^VZV
@HWI-EAS443:3:20:252:328#0/1
CAATTCGACACTAATTGATGGCCATCCGAATTCTTTTGGT
+HWI-EAS443:3:20:252:328#0/1
ab`Y`baabab^aaaaa_a]^`a¥`¥a]TY^aa_a`_aW
@HWI-EAS443:3:20:340:1350#0/1
GATATGGCCCAGCATTAAAGCATCAATGAACTGAGCAATCT
+HWI-EAS443:3:20:340:1350#0/1
H¥a[Y]^`a`^`aaa`^`ZaabWa]Zaa`_UaZJ^aa^_

@HWI-EAS443:3:20:384:1000#0/1
TAAGAGTCAGCAAATGGGAGTAGATGAATACTCCAGCAC
+HWI-EAS443:3:20:384:1000#0/1
aaa`abV^__a_aaaa]aa_a^a]X__`a_^`_a`_]]_
@HWI-EAS443:3:20:47:784#0/1
CAATTCGACACTAATTGATGGCCATCCGAATTCTTTTGGT
+HWI-EAS443:3:20:47:784#0/1
abbaaaa]`aaa]]^`_`_V`__aa^X``¥a^a`__V
@HWI-EAS443:3:20:497:503#0/1
AACAAATTCGACACTAATTGATGGCCATCCGAATTCTTTTG
+HWI-EAS443:3:20:497:503#0/1
Z^_baVW¥S^_Q¥_`X^]¥[_]W]WT`¥YQ_[IZa_`a
@HWI-EAS443:3:20:508:1261#0/1
AAGAGAAGAACCCCGCACTCAGAATGAAGTGGATGATGGC
+HWI-EAS443:3:20:508:1261#0/1
aaaabaaa[baaaaaa`a__a]__a_^_Ra^__aU^^WV
@HWI-EAS443:3:20:571:1994#0/1
GAGATATGGCCAGCATTAAGCATCAATGAACTGAGCAAT
+HWI-EAS443:3:20:571:1994#0/1
`aaX_b_aababbZaa[[a`aaXbaaV¥Xb`aa_abaaa]
@HWI-EAS443:3:20:621:713#0/1
CCAGCATTAAGCATCAATGAACTGAGCAATCTTGCAAAAAG
+HWI-EAS443:3:20:621:713#0/1
aaaa`^`]]`X__^`aa_`X^^¥a___^]_Z^Z^YU¥_
@HWI-EAS443:3:20:65:507#0/1
AGAGAAGAACCCCGCACTCAGAATGAAGTGGATGATGGCA
+HWI-EAS443:3:20:65:507#0/1
aaabaaab`b`aaaa`ab`aaa_^a^aa`a^__`^]
@HWI-EAS443:3:20:700:1603#0/1
CAGCATTAAGCATCAATGAACTGAGCAATCTTGCAAAAAG
+HWI-EAS443:3:20:700:1603#0/1
^bbabaa`a[`b`aa_b`aabba_aaaaa^aaa_a`a`^
@HWI-EAS443:3:20:745:1131#0/1
AGAAGAACCCCGCACTCAGAATGAAGTGGATGATGGCAAT
+HWI-EAS443:3:20:745:1131#0/1
WaUW[^__V_^_b¥]a__]aa^RZ¥Zaa[^`^¥U`^VU]_
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ATTTTGGCAAAGAAGACAAGAGATATGGCCAGCATTAA
+HWI-EAS443:3:20:790:1930#0/1
a_`a`^]]__aa```__`_]`_a^_X^]_¥`_Z]^Z]_Z
@HWI-EAS443:3:20:795:1977#0/1
AGAAGACAAGAGATATGGCCAGCATTAAAGCATCAATGAA
+HWI-EAS443:3:20:795:1977#0/1
a¥aa_aa```_`^b_aI]^a`a¥¥^`^`_`_aZ^a¥]WNX
@HWI-EAS443:3:20:898:595#0/1
AGAAGAACCCCGCACTCAGAATGAAGTGGATGATGGCAAT
+HWI-EAS443:3:20:898:595#0/1
`_X_¥Z`a`_bb`ab`ab`a`_]R`[aa__a`_a]YZ[_
@HWI-EAS443:3:20:906:1176#0/1
GGCCAGCATTAAAGCATCAATGAACTGAGCAATCTTGCAA

+HWI-EAS443:3:20:906:1176#0/1
abaa[`a¥_ ` `aZaZ]¥^`aa_¥]aa_aY_a_]_^a_]_
@HWI-EAS443:3:21:1052:339#0/1
AAACAATTGACACTAATTGATGGCCATCCGAATTCTTTT
+HWI-EAS443:3:21:1052:339#0/1
aa`]aaaa`b^_aZ` ` `_____W]U__]] `XW^^Q¥_^]
@HWI-EAS443:3:21:107:1886#0/1
GAAGACAAGAGATATGGCCCAGCATTAAAGCATCAATGAAC
+HWI-EAS443:3:21:107:1886#0/1
aa[Zabba[¥[`^aZYIb]Y`_¥b_aa¥ZaR¥a_`PR_¥W
@HWI-EAS443:3:21:1259:769#0/1
CATTAAGCATCAATGAACTGAGCAATCTTGCAAAAGGAGA
+HWI-EAS443:3:21:1259:769#0/1
¥` `U¥Z`V[[b^W`_Y^^^_Ob^^^aaba^VTX_bb^a`b
@HWI-EAS443:3:21:1385:464#0/1
AAGAGATATGGCCCAGCATTAAAGCATCAATGAACTGAGCA
+HWI-EAS443:3:21:1385:464#0/1
aab`aaa¥aaaZ`aaaXa`a_W` ` `]^a¥F[¥^Wa^UaSW
@HWI-EAS443:3:21:1548:1904#0/1
CAAGAGAAGAACCCCGCACTCAGAATGAAGTGGATGATGG
+HWI-EAS443:3:21:1548:1904#0/1
abbbabbbaaba¥_`b`b_a`aa^_aa___Xa] ` `a_]Xa
@HWI-EAS443:3:21:1552:473#0/1
AACAAATTCGACACTAATTGATGGCCATCCGAATTCTTTTG
+HWI-EAS443:3:21:1552:473#0/1
VZ¥`]U]a_aZa`aaZ^V_] [[aZ¥_`]R_XHW[^`_^^^
@HWI-EAS443:3:21:1591:1759#0/1
AGAAGACAAGAGATATGGCCCAGCATTAAAGCATCAATGAA
+HWI-EAS443:3:21:1591:1759#0/1
_ba` `a__Q^]_W_aZ]^[[W`UW_]a_]^^ZYVY]W[
@HWI-EAS443:3:21:1595:219#0/1
CAATTCGACACTAATTGATGGCCATCCGAATTCTTTTGGT
+HWI-EAS443:3:21:1595:219#0/1
_baa]D[bab_babbabb`aa`a¥VO_^_bbX`bbaaWO
@HWI-EAS443:3:21:1601:848#0/1
AGAAGACAAGAGATATGGCCCAGCATTAAAGCATCAATGAA
+HWI-EAS443:3:21:1601:848#0/1
aaaaaaaaab` `` `a`_XU[_`Z]_` `^_^_S_[]`W]
@HWI-EAS443:3:21:1677:1556#0/1
GGGCAAAGAAGACAAGAGATATGGCCCAGCATTAAAGCATC
+HWI-EAS443:3:21:1677:1556#0/1
]`aaabbaabb`a`_aaa`Taaa`^_]`a^` ` `a]_^_
@HWI-EAS443:3:21:1767:964#0/1
GATATGGCCCAGCATTAAAGCATCAATGAACTGAGCAATCT
+HWI-EAS443:3:21:1767:964#0/1
__]` [[aVIWbV[a¥`YZ][a`__T^_]_`¥¥PX` `]U[
@HWI-EAS443:3:21:1788:220#0/1
CAATTCGACACTAATTGATGGCCATCCGAATTCTTTTGGT
+HWI-EAS443:3:21:1788:220#0/1
a`Z]_`¥Y_^a]X¥][STNYKVRPYMR`YY^YLUX[V^]Y

+HWI-EAS443:3:22:1466:942#0/1
a]a`aa`aaa¥a`a`_`a_]`Y___^^[]^U[]_]^
@HWI-EAS443:3:22:1474:1426#0/1
ATTAAGCATCAATGAACTGAGCAATCTTGCAAAAGGAGAG
+HWI-EAS443:3:22:1474:1426#0/1
aa_aaa__`a`aa_]YP]]^_[_Y]¥`_SGX_¥^`]]^¥_
@HWI-EAS443:3:22:1474:305#0/1
AGAGAAGAACCCCGCACTCAGAATGAAGTGGATGATGGCA
+HWI-EAS443:3:22:1474:305#0/1
aba`b`b_ba_a_baaaba`aa^aa[^aRaaV^a]_a_VZ
@HWI-EAS443:3:22:190:1814#0/1
AAGAACCCCGCACTCAGAATGAAGTGGATGATGGCAATGA
+HWI-EAS443:3:22:190:1814#0/1
aa`aabaaa^aa`_a_^`_[XUSKP]_]U`X]R]__^RX
@HWI-EAS443:3:22:217:1965#0/1
CTTTTGCAAGATTGCTCAGTTCATTGATGCTTAATGCTGG
+HWI-EAS443:3:22:217:1965#0/1
aaa`a]a`aab`a`__ba^_`baa__^`aaa``aa_a^[¥
@HWI-EAS443:3:22:299:1664#0/1
GAGAAGAACCCCGCACTCAGAATGAAGTGGATGATGGCAA
+HWI-EAS443:3:22:299:1664#0/1
^Yaaa`a__`bbba]aaaY_SW``^`ZN]a_U¥UZ^]U`T
@HWI-EAS443:3:22:308:681#0/1
CAATTCGACACTAATTGATGGCCATCCGAATCTTTTGGT
+HWI-EAS443:3:22:308:681#0/1
aa]abaa_aaaaa`aa_]`a`a````_`_a`a__YX
@HWI-EAS443:3:22:383:1639#0/1
GCATTAAGCATCAATGAACTGAGCAATCTTGCAAAAGGAG
+HWI-EAS443:3:22:383:1639#0/1
aaba`bbaaaabaaa`abaa`aaaa`a__`a````_`^a`
@HWI-EAS443:3:22:39:1076#0/1
CCATCATCCACTTCATTCTGAGTGC GGTTCTTCTCTTG
+HWI-EAS443:3:22:39:1076#0/1
__aaaa`ab_a]__S_ab``¥_V`^_Z`^W_Z_¥]]aaaa
@HWI-EAS443:3:22:444:217#0/1
CAATTCGACACTAATTGATGGCCATCCGAATCTTTTGGT
+HWI-EAS443:3:22:444:217#0/1
abbabababaaaa^aaa`_a_a^a__¥a_a`_Zaaa_[]Z
@HWI-EAS443:3:22:456:1213#0/1
CTCAGTTCATTGATGCTTAATGCTGGCCATATCTCTTGT
+HWI-EAS443:3:22:456:1213#0/1
aV^`^V[bU]^]^ab_aa_aa[aZW¥Z^]_a^aaa`^_a¥
@HWI-EAS443:3:22:524:1713#0/1
CAATTCGACACTAATTGATGGCCATCCGAATCTTTTGGT
+HWI-EAS443:3:22:524:1713#0/1
a``aaa_ba`aa_aY_W^[^aVa]aa__`_^____Y]¥U
@HWI-EAS443:3:22:598:1308#0/1
GAGAAGAACCCCGCACTCAGAATGAAGTGGATGATGGCAA
+HWI-EAS443:3:22:598:1308#0/1
a[_^_U_]`Qaa[U_a_]__Y^_[Z_X[V[UTUVVP]]X

@HWI-EAS443:3:22:622:314#0/1
GAAGAACCCCGCACTCAGAATGAAGTGGATGATGGCAATG
+HWI-EAS443:3:22:622:314#0/1
aabaaaaa`__a_^`_____aXY`U^_^___V_^_[_Z^
@HWI-EAS443:3:22:681:104#0/1
CATTAAGCATCAATGAACTGAGCAATCTTGCAAAAGGAGA
+HWI-EAS443:3:22:681:104#0/1
abbbbbbb`abbbbb`abaabaaaaaab``_`^aa`aa
@HWI-EAS443:3:22:734:676#0/1
AAGAGATATGGCCAGCATTAAAGCATCAATGAACTGAGCA
+HWI-EAS443:3:22:734:676#0/1
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@HWI-EAS443:3:22:862:1040#0/1
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+HWI-EAS443:3:22:862:1040#0/1
ZSZV_a`ZZ`aaRaZ_aaaS[ZXU_YZZT[MR^]W]]_`^`
@HWI-EAS443:3:22:875:1909#0/1
CAATTCGACACTAATTGATGGCCATCCGAATCTTTTGGT
+HWI-EAS443:3:22:875:1909#0/1
_[a¥]WV[`aaaa`Z0Q]¥[`a^^U[]WV^NPGX]__XNU
@HWI-EAS443:3:23:1019:42#0/1
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+HWI-EAS443:3:23:1019:42#0/1
^_bbab`abb`a`aaa``aaaab^aab^`_`_[a__a`a` [
@HWI-EAS443:3:23:1080:1358#0/1
TAAGCATCAATGAACTGAGCAATCTTGCAAAAGGAGAGAA
+HWI-EAS443:3:23:1080:1358#0/1
]¥`^`bab_abbaa]a_X^aa¥`aa`baa[L_a`^aa^aa
@HWI-EAS443:3:23:1125:1190#0/1
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+HWI-EAS443:3:23:1125:1190#0/1
__Xbbaab`a`abab__a¥aZ^ababaaab`b_abb``a
@HWI-EAS443:3:23:1134:385#0/1
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+HWI-EAS443:3:23:1134:385#0/1
aabaabaaaaa``_aaaa__X__`a`ZaXa_]aX`^[
@HWI-EAS443:3:23:1161:937#0/1
AAGAGAAGAACCCCGCACTCAGAATGAAGTGGATGATGGC
+HWI-EAS443:3:23:1161:937#0/1
a`aaa``_aa`aa``a¥¥[]a^^Xaaa`Vaa_^^^__YN
@HWI-EAS443:3:23:1188:1145#0/1
GAAGAACCCCGCACTCAGAATGAAGTGGATGATGGCAATG
+HWI-EAS443:3:23:1188:1145#0/1
aa`_aa`a`^b¥[_`_`ba]_a^^aX)`¥^_[_`[X^^a
@HWI-EAS443:3:23:1197:1391#0/1
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+HWI-EAS443:3:23:1197:1391#0/1
aabbbbbbbbabbbbaabbabaabaaaa`aa_aabaabaaaa
@HWI-EAS443:3:23:1315:1108#0/1
GAAGAACCCCGCACTCAGAATGAAGTGGATGATGGCAATG

+HWI-EAS443:3:23:1315:1108#0/1
aaa_aa_`_^a^_Z`^^_¥^]¥^Y^R^_X]_VR]QUTYYY
@HWI-EAS443:3:23:1378:2037#0/1
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+HWI-EAS443:3:23:1378:2037#0/1
``a`a``^a[`a^`aa_a_aa_a_^[[`¥][_]aa_`
@HWI-EAS443:3:23:1395:1392#0/1
TAAGCATCAATGAACTGAGCAATCTTGCAAAAAGGAGAGAA
+HWI-EAS443:3:23:1395:1392#0/1
ababb`baX`ab_a``aaaa`__aaaaaaa_aV^aaadW
@HWI-EAS443:3:23:1396:400#0/1
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+HWI-EAS443:3:23:1396:400#0/1
aa_aa_aa`_[Y[_a__[_^a__[_`^a^a`____][`ZY
@HWI-EAS443:3:23:1445:1325#0/1
CAATTCGACACTAATTGATGGCCATCCGAATTCTTTTGGT
+HWI-EAS443:3:23:1445:1325#0/1
V]ab][MY^¥aS^XX__[¥^^UPX``]TXaX]]]aVabJ^
@HWI-EAS443:3:23:1470:152#0/1
AAGAAGACAAGAGATATGGCCCAGCATTAAAGCATCAATGA
+HWI-EAS443:3:23:1470:152#0/1
aababa^ba¥`¥b]P___NT^U^_UTZZ^`PP¥MWZYXY
@HWI-EAS443:3:23:1556:379#0/1
AGAAGAACCCCGCACTCAGAATGAAGTGGATGATGGCAAT
+HWI-EAS443:3:23:1556:379#0/1
aaaa`_`V`UYa_`V]U_aZS]_R]^Za^Z`^]VZ_WWZV
@HWI-EAS443:3:23:199:1265#0/1
CAAGAGAAGAACCCCGCACTCAGAATGAAGTGGATGATGG
+HWI-EAS443:3:23:199:1265#0/1
a¥ZZT]aY]__`_`X[aa__[_[]__J00J^X][_VRBB
@HWI-EAS443:3:23:274:1532#0/1
CAAGAGAAGAACCCCGCACTCAGAATGAAGTGGATGATGG
+HWI-EAS443:3:23:274:1532#0/1
aaaaaa]aa[aaa_]Z]^a^^__^^`Z^]GZTYV_XYV]
@HWI-EAS443:3:23:288:617#0/1
CATTAAAGCATCAATGAACTGAGCAATCTTGCAAAAAGGAGA
+HWI-EAS443:3:23:288:617#0/1
`^WV]__TM_aY`Y`]U^Q[UUX`[TZ[^a]H]¥_`[Z`
@HWI-EAS443:3:23:300:1005#0/1
ATTAAGCATCAATGAACTGAGCAATCTTGCAAAAAGGAGAG
+HWI-EAS443:3:23:300:1005#0/1
`aab^¥``aa`a`_¥_aa_a```^`^a_____`_]__`
@HWI-EAS443:3:23:376:1600#0/1
AACAATTCGACACTAATTGATGGCCATCCGAATTCTTTTG
+HWI-EAS443:3:23:376:1600#0/1
aaaaa`_b`aaaa`aa`¥`_`^a`_`¥aaa``____`____
@HWI-EAS443:3:23:450:992#0/1
GCATTAAGCATCAATGAACTGAGCAATCTTGCAAAAAGGAG
+HWI-EAS443:3:23:450:992#0/1
abbaa^aabaaaaaaaaaaaa`aa`baaaa`a`a_a[aT¥`

+HWI-EAS443:3:23:971:1012#0/1
a``_aa`a`aa`a`a^aa_aa`_^[][[Y_TM[]^
@HWI-EAS443:3:24:1023:1633#0/1
AGAGAAGAACCCCGCACTCAGAATGAAGTGGATGATGGCA
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¥R_W¥`b`_babbbb`bb`[`aXb`bbabbXb¥ab`_^_S
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¥Z`]a`a_^Z`_`_`[a^]Z`a^adW]_XZHRM[Z[^[_[_
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+HWI-EAS443:3:28:1123:1290#0/1
``a`aaa^[aaaa___`a`aaaaa^^``]``_`_^_
@HWI-EAS443:3:28:1157:1020#0/1
GAAGAACCCCGCACTCAGAATGAAGTGGATGATGGCAATG
+HWI-EAS443:3:28:1157:1020#0/1
T`¥a```bbbbab]aaXW¥_bbaaa`aaa``^V^`W]]Y]
@HWI-EAS443:3:28:1209:1797#0/1
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+HWI-EAS443:3:28:1209:1797#0/1
a¥V`a__baW`aaa[Y¥PVaa^UUY_HNZWY]___`X[^Y
@HWI-EAS443:3:28:1291:1949#0/1
ATTTTGGGCAAAGAAGACAAGAGATATGGCCCAGCATTAA
+HWI-EAS443:3:28:1291:1949#0/1
`]WYaaYY``aaaZa_^^`__`_`a_]_]__UU_ZWYZ^__
@HWI-EAS443:3:28:1299:31#0/1
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+HWI-EAS443:3:28:1299:31#0/1
abbbaaaaa[aaba^aaa`a^_a^aYaaa^___X`P^a_a
@HWI-EAS443:3:28:1450:699#0/1
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+HWI-EAS443:3:28:1450:699#0/1
abb`bbabbbbbbbbbababa`a`bab`babaaa`abbaba
@HWI-EAS443:3:28:146:1810#0/1
GAGAAGAACCCCGCACTCAGAATGAAGTGGATGATGGCAA
+HWI-EAS443:3:28:146:1810#0/1
aaabU^`Xabbb[bb_]b`aa^]a^¥aV`_a_a_[__^¥]
@HWI-EAS443:3:28:146:409#0/1
AAGAGAAGAACCCCGCACTCAGAATGAAGTGGATGATGGC
+HWI-EAS443:3:28:146:409#0/1
a`a__U[]¥aaa_] []V]^`_a`]_^Z]_Y`__^_]]^SZ
@HWI-EAS443:3:28:1475:231#0/1
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+HWI-EAS443:3:28:1475:231#0/1
_aba` `ab]ZVR[]YMX¥U_PMY[LMXBBBBBBBBBBBBB
@HWI-EAS443:3:28:1480:1424#0/1
GAGATATGGCCCAGCATTAAAGCATCAATGAACTGAGCAAT
+HWI-EAS443:3:28:1480:1424#0/1
aab^[_`aZ_^¥¥Y__aaa]^YX[YY[_^ [ZS[V¥^U__]
@HWI-EAS443:3:28:1492:1232#0/1
ATTGCCATCATCCACTTCATTCTGAGTGC GGGTTCTTCT
+HWI-EAS443:3:28:1492:1232#0/1
abbb]]``]`aaZ^aa_aabaYaa`Q^L]U^]U_aa`U]
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+HWI-EAS443:3:28:1493:986#0/1
T`b_W_b`_Q_Xaa[ab]__bZ`¥[a¥a`^a`¥_aaSS_I
@HWI-EAS443:3:28:1635:915#0/1
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+HWI-EAS443:3:28:1635:915#0/1
aba]bbbaaba`b^a`aaaa``_`_]Ya__aa¥a```
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+HWI-EAS443:3:28:1757:1646#0/1
Z`[_Z¥¥S]a^`YI¥`aa__ab^``a_``_]a]¥``a[Z`
@HWI-EAS443:3:28:190:1766#0/1
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+HWI-EAS443:3:28:190:1766#0/1
`X`[PFZ¥Y]Z`^U_QPZa_aaa`YIZaaaPY`a_]Y_YM
@HWI-EAS443:3:28:220:1730#0/1
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+HWI-EAS443:3:28:220:1730#0/1
aaa`a`Xaa_b`aa^VXaTNG¥aa]aaXaR^_a__^_]_X
@HWI-EAS443:3:28:269:1431#0/1
AAGAGATATGGCCAGCATTAAAGCATCAATGAACTGAGCA
+HWI-EAS443:3:28:269:1431#0/1
aaaaaaaa`a`a`U`^¥`_aa_a`_a`````_`a_^_¥_`
@HWI-EAS443:3:28:323:1726#0/1
AGCTGTTGCTCTTCTCCAACCATTGTGAATTCTTCATAC
+HWI-EAS443:3:28:323:1726#0/1
``a]XWa¥`]XGT¥]_a`[¥Z]SV`UULTV[VLO¥_ZFHM
@HWI-EAS443:3:28:42:1353#0/1
CTCTCCTTTTGCAAGATTGCTCAGTTCATTGATGCTTAAT
+HWI-EAS443:3:28:42:1353#0/1
abb_¥^`^ab`aS[U]`aabaa^`X^aa`baaaaa¥^)`
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AAGAAGACAAGAGATATGGCCAGCATTAAAGCATCAATGA
+HWI-EAS443:3:28:493:635#0/1
aS]YO[a^a`[]YXW^_a`a]XW]U¥Y^YQV¥VU^ZY^]]
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+HWI-EAS443:3:28:522:676#0/1
abb^aabaa]bbbaabbab]a`_]`a`aa_```YUZ^Ya^
@HWI-EAS443:3:28:590:1906#0/1
AGAAGACAAGAGATATGGCCAGCATTAAAGCATCAATGAA
+HWI-EAS443:3:28:590:1906#0/1
aabbabab`aaaaaa`^^aaa`_ab_]aa_aa^_aa¥^`a
@HWI-EAS443:3:28:702:1044#0/1
AAGAGAAGAACCCCGCACTCAGAATGAAGTGGATGATGGC
+HWI-EAS443:3:28:702:1044#0/1
abaa`aaaaa_a`_aaa`_^Z`]__^_S_]X¥_YY]U]
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+HWI-EAS443:3:28:71:1217#0/1
aWU¥ab```_Y]]¥aa^¥YW`^]UYZa`YYPW_TTWOWZS
@HWI-EAS443:3:28:755:586#0/1
CTCTCCTTTTGCAAGATTGCTCAGTTCATTGATGCTTAAT
+HWI-EAS443:3:28:755:586#0/1
abbababbaab^aaaaa`baaaaa_a`_b`_aa`a``H`a

@HWI-EAS443:3:28:795:1426#0/1
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+HWI-EAS443:3:28:795:1426#0/1
[aababb`^_ba_`a`aab`bbaaa_a__bX`aaa[aY`_
@HWI-EAS443:3:28:808:1419#0/1
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+HWI-EAS443:3:28:808:1419#0/1
aT^`aabaZU_abaaaabb]aaZFZa_H`VH¥R__a]Y`W
@HWI-EAS443:3:28:991:1123#0/1
AGAGATATGGCCCAGCATTAAAGCATCAATGAACTGAGCAA
+HWI-EAS443:3:28:991:1123#0/1
Y`bbaabaaaa]¥]baba¥aaba[`b`]Waa_a``_aaY]
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CCATCATCCACTTCATTCTGAGTGC GGGTTCTTCTCTTG
+HWI-EAS443:3:29:1023:1535#0/1
aaaa]aZVWab_aa_¥¥`^H^PR^TaXI^Q]UaZ_`V`^B
@HWI-EAS443:3:29:1098:1429#0/1
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+HWI-EAS443:3:29:1098:1429#0/1
_Z_S]_R_aYT[¥`]WQU^W^¥TV`X`^`a[Z]`^^^`Z
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+HWI-EAS443:3:29:1099:1102#0/1
^Q]¥_XVa¥_b`Y`]ZVS¥a`¥`]¥ZZ^a][Y]S]``V¥[
@HWI-EAS443:3:29:1137:902#0/1
GATTGCTCAGTTCATTGATGCTTAATGCTGGGCCATATCT
+HWI-EAS443:3:29:1137:902#0/1
`^aaaa`[_`_Y]aaaaaaa_a_`ZaaaZa_aa_a_a__`
@HWI-EAS443:3:29:1169:41#0/1
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+HWI-EAS443:3:29:1169:41#0/1
a]b`aaaa__a`aV_^`[^`]_a`][_T_____`^]]^Y]]
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+HWI-EAS443:3:29:1176:1544#0/1
aab_a_babbabaaaaaa`a_`aaaa``aaaa_`aaaa`a
@HWI-EAS443:3:29:1196:170#0/1
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+HWI-EAS443:3:29:1196:170#0/1
aaaa`X__a``____[VX`^`X`P]__]]]_^a^^_`^_
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+HWI-EAS443:3:29:1343:595#0/1
abbbabaaaabbaaa`a`aa`^aa^W`_``aa``_`a_a^
@HWI-EAS443:3:29:1345:921#0/1
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a`bbbbbbbb`baabbbbaa_baab_aab`bab`aa`_a
@HWI-EAS443:3:29:1432:1541#0/1
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+HWI-EAS443:3:29:1432:1541#0/1
aaY`W`aabaa`¥RYaa¥`__`^a^`a`[Z`Sa`^`_[Z`_
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+HWI-EAS443:3:29:1550:1229#0/1
aaa`Yaba^a`^`__``]__a`_`0`X^`_]a]TXZZ__]a
@HWI-EAS443:3:29:1567:1833#0/1
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+HWI-EAS443:3:29:1567:1833#0/1
Z¥[]YWZZXWw[Xaa[KVaZ]_`W[XZY`^`^^`_XX`_`^
@HWI-EAS443:3:29:199:483#0/1
AGAGATATGGCCCAGCATTAAAGCATCAATGAACTGAGCAA
+HWI-EAS443:3:29:199:483#0/1
]b_Y`J`UF^Z`Z]^`b_PQ_]W^_aa¥`_`[Y[UXP[Z]]
@HWI-EAS443:3:29:263:1133#0/1
GAGAAGAACCCCGCACTCAGAATGAAGTGGATGATGGCAA
+HWI-EAS443:3:29:263:1133#0/1
aab^babbbbaaaaaaaaaa`aaa]aYa`__a_]`^``__`
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AGCATTAAAGCATCAATGAACTGAGCAATCTTGCAAAAGGA
+HWI-EAS443:3:29:339:1087#0/1
_abba`[_aa¥`aaaaa]`_____a`_`_`_`_`_`_`X^¥_X^
@HWI-EAS443:3:29:377:802#0/1
GAAGAACCCCGCACTCAGAATGAAGTGGATGATGGCAATG
+HWI-EAS443:3:29:377:802#0/1
a_b`]aa_aa`aaa_a`_Z_aa]^aQa_Y`]¥^^ZZWW¥
@HWI-EAS443:3:29:399:1806#0/1
TATGGCCCAGCATTAAAGCATCAATGAACTGAGCAATCTTG
+HWI-EAS443:3:29:399:1806#0/1
_b_bbZ¥`XQ^b_Xb¥J`_b_bb_¥a]aaWV¥^`Uab`Xa
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+HWI-EAS443:3:29:459:1018#0/1
aabaaa`[`baaa_aaa`_`^`_Y¥Wa__U`^¥¥V_[V]^
@HWI-EAS443:3:29:45:694#0/1
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+HWI-EAS443:3:29:45:694#0/1
a`aaaaaaaa`aa`a`_`^a`_`_`_`_`^`^Za[]¥SY]^^^
@HWI-EAS443:3:29:543:223#0/1
GATTGCTCAGTTCATTGATGCTTAATGCTGGCCATATCT
+HWI-EAS443:3:29:543:223#0/1
a]``baa`ab```aabaa``aaaaa`^`aa_aa__`[`
@HWI-EAS443:3:29:585:1082#0/1
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+HWI-EAS443:3:29:585:1082#0/1
aS]baaaaaa`aa`a`a^X]_`_`^`Y_]`[¥`]]_____Y
@HWI-EAS443:3:29:659:440#0/1
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+HWI-EAS443:3:29:659:440#0/1
¥`¥`_`_`bbV¥][b¥a_Y`baYZ][P^]a_V`aa_¥a]`Q^

@HWI-EAS443:3:29:714:136#0/1
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+HWI-EAS443:3:29:714:136#0/1
¥aZ`bbb¥F¥a`^`a^^`a_Z¥]TX¥GYY^aaWQ[^BBBB
@HWI-EAS443:3:29:754:1387#0/1
GAGATATGGCCAGCATTAAAGCATCAATGAACTGAGCAAT
+HWI-EAS443:3:29:754:1387#0/1
abbbba`^bbb`abaabaabaaaaa`a`a___aa`a_
@HWI-EAS443:3:29:878:1703#0/1
AGAGATATGGCCAGCATTAAAGCATCAATGAACTGAGCAA
+HWI-EAS443:3:29:878:1703#0/1
]a^]aaa__`a__a__aa_aa]__^]___W^a^_U__X`_
@HWI-EAS443:3:29:911:713#0/1
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+HWI-EAS443:3:29:911:713#0/1
aaT`_XZZb``aaaabbW`_a[a_U`bS^bQab^_a`Sa`
@HWI-EAS443:3:29:942:1516#0/1
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+HWI-EAS443:3:29:942:1516#0/1
aaa[`bbbababbaaaaa¥^ba`_`Sa_^aaZ^`a`^V`^
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+HWI-EAS443:3:2:1105:740#0/1
abaaa`a`_`_`aaaa`^a^ZaaU^^M[^X`_^]_WUY^^
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+HWI-EAS443:3:2:1195:1616#0/1
a_aT]OZ`YV]_`R^WWY]aRV^_¥^_G[ZUY`YGRYXBB
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+HWI-EAS443:3:2:1415:1359#0/1
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+HWI-EAS443:3:2:1427:2006#0/1
aa``a`_`_`^a_WOaa_a^_a]`_`_`^WW_X]U^____ZK
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GCCATCATCCACTTCATTCTGAGTGC GGGTTCTTCTCTT
+HWI-EAS443:3:2:1467:1718#0/1
aZRW`Y[Z¥R¥Z`a¥¥^aY_^[\`TUTPYR¥WXRLTTVQ^B
@HWI-EAS443:3:2:148:1949#0/1
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+HWI-EAS443:3:2:148:1949#0/1
aabbab]abb`_aZRbabaa_b^a`b`baa]a`aaaa__^
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+HWI-EAS443:3:2:160:1034#0/1
abbbbaaabbbaUaaaa_aba_ab^aaa_a`_`^]_`¥a
@HWI-EAS443:3:2:1653:640#0/1
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@HWI-EAS443:3:2:791:1469#0/1
TAAGCATCAATGAACTGAGCAATCTTGCAAAGGAGAGAA
+HWI-EAS443:3:2:791:1469#0/1
abaaaa_a`b`aa¥aaa`[aa__aa```````aa^a`a`_
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AGAAGAACCCCGCACTCAGAATGAAGTGGATGATGGCAAT
+HWI-EAS443:3:2:793:1739#0/1
^`Zaa_a_a^XXNQ]_Uaa_]U`_X`P^]N¥_R]_UGQIY
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+HWI-EAS443:3:2:836:1625#0/1
abbba^```]^aaaa[aaa`aaaa_a_a_] ^T]_Z^a`^_
@HWI-EAS443:3:2:953:692#0/1
TAAGCATCAATGAACTGAGCAATCTTGCAAAGGAGAGAA
+HWI-EAS443:3:2:953:692#0/1
aa`a_`a^]aa^a_`````]`_a^``_Y]¥Y_`]U`^`_X
@HWI-EAS443:3:2:955:540#0/1
GTTTTTAAACAATTTCGACACTAATTGATGGCCATCCGAAT
+HWI-EAS443:3:2:955:540#0/1
a]_Z` ` [WT¥S[V^]W]`]^ZX[]^[¥¥¥VMYZTVZVW[
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+HWI-EAS443:3:30:1110:1813#0/1
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@HWI-EAS443:3:30:1131:1323#0/1
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+HWI-EAS443:3:30:1131:1323#0/1
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@HWI-EAS443:3:30:1377:1759#0/1
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+HWI-EAS443:3:30:1377:1759#0/1
XVQa_WY]Yba_OXtb`bb^TNO]R_^JM^OPO[W_`]QZ
@HWI-EAS443:3:30:1404:790#0/1
CATTAAGCATCAATGAACTGAGCAATCTTGCAAAGGAGA
+HWI-EAS443:3:30:1404:790#0/1
aaa^bY`V_^abbbb]```aa_`````¥a]```_a_a^¥SY`a
@HWI-EAS443:3:30:1600:867#0/1
CATTAAGCATCAATGAACTGAGCAATCTTGCAAAGGAGA
+HWI-EAS443:3:30:1600:867#0/1
ab_baab^`aaabbb]^_aa_`Za_a_a`¥Xa` `____]_`
@HWI-EAS443:3:30:1631:60#0/1
AACAATTCGACACTAATTGATGGCCATCCGAATTCTTTTG
+HWI-EAS443:3:30:1631:60#0/1
a`[b`[]`_babXba`[a_[ZaQRGU_FTV]aaaQ¥]Y`[
@HWI-EAS443:3:30:177:1807#0/1
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+HWI-EAS443:3:30:177:1807#0/1
aaa`aa`_aa_aZ`aa`^`_]a____]a`Y¥_`^¥^`_]]_W
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+HWI-EAS443:3:30:1784:1998#0/1
a_^a[aabaa^`abaa^aaa[aWa`¥_^YY_a____^_a[G
@HWI-EAS443:3:30:204:294#0/1
GGCCCAGCATTAAAGCATCAATGAACTGAGCAATCTTGCAA
+HWI-EAS443:3:30:204:294#0/1
aabbaabaaaaabbaa`a_]a```aa`_a`aa``__a__W
@HWI-EAS443:3:30:241:1024#0/1
AGAAGACAAGAGATATGGCCCAGCATTAAAGCATCAATGAA
+HWI-EAS443:3:30:241:1024#0/1
``b`aaaaaaaa`_]``aaaa`aa_aaa`_a^a`^^^^
@HWI-EAS443:3:30:342:659#0/1
GAAGACAAGAGATATGGCCCAGCATTAAAGCATCAATGAAC
+HWI-EAS443:3:30:342:659#0/1
aaaaaabaaaa`_`a_aaaa`_a____[[^a^a]__`Z^]
@HWI-EAS443:3:30:398:1797#0/1
TATGGCCCAGCATTAAAGCATCAATGAACTGAGCAATCTTG
+HWI-EAS443:3:30:398:1797#0/1
_AY[R_bb`^b^X]aWa_]Zb`_a`ZY][URUa_NQ`_Y_
@HWI-EAS443:3:30:45:2015#0/1
CAGCAAAATGGGAGTAGATGAATACTCCAGCACGGAGAGA
+HWI-EAS443:3:30:45:2015#0/1
^_Zaaaa`]]_]_^PaTS^^`a]U]_a]URa_a[VOVUZ]
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ATTAAGCATCAATGAACTGAGCAATCTTGCAAAAGGAGAG
+HWI-EAS443:3:30:485:110#0/1
aba_Za_T`a¥b``Yab`a]aab`_X`^`[_^VP]^]`__
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+HWI-EAS443:3:30:531:1630#0/1
Y]RWZ]X```ba`S_aa`_ba¥ba¥b_aa[`WaW¥__^a_
@HWI-EAS443:3:30:557:1243#0/1
GAAGAACCCCGCACTCAGAATGAAGTGGATGATGGCAATG
+HWI-EAS443:3:30:557:1243#0/1
`^^a^a[`^a`Xa`a[^`aXaaa`_T`¥SZ`_`^¥RW[___
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+HWI-EAS443:3:30:640:2021#0/1
aaa`_a¥M`aaaa`a`a_^_]_^U`_]_]_V^]]Y]]VXV
@HWI-EAS443:3:30:65:1257#0/1
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+HWI-EAS443:3:30:65:1257#0/1
^^aaababaaa`baaaaaaaaa`¥aa`a`_Y_aba_a_a_
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+HWI-EAS443:3:30:681:278#0/1
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[^U_aba`_`¥Xaaaba``¥`YY^ZJVaa_[_Y¥`a^_
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+HWI-EAS443:3:30:901:1027#0/1
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+HWI-EAS443:3:31:1440:1697#0/1
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Ya`_^`_b`a_]`aaa^US`_a`UXFZaU[^[Z`Y^[UV
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V^_V¥ab_bbb]_¥_b_ab_aT¥Z`GY[b`^`a`Mb_]X^
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+HWI-EAS443:3:32:1180:914#0/1  
a\_bT^`\_`ababaaaaaXa][\_ab^`\_`^a\_```a\_\_^^Z]Z  
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+HWI-EAS443:3:32:1544:1284#0/1  
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+HWI-EAS443:3:32:1591:952#0/1  
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+HWI-EAS443:3:32:449:1378#0/1  
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+HWI-EAS443:3:32:918:185#0/1  
a^S\_aaaa\_\_^`Z^\_\_`\_\_^\_Z]U]^]]^\_]X`^^\_  
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+HWI-EAS443:3:33:1023:1787#0/1  
a`\_a\_aaaa`a`aaa^`^a`\_`a`U¥`US\_¥^`^SUNRT^  
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+HWI-EAS443:3:33:1684:1336#0/1  
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+HWI-EAS443:3:33:436:267#0/1  
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+HWI-EAS443:3:33:562:1865#0/1  
\_¥V\_LWY¥a`V¥¥R[aaa[VS^]ab][\_a]^MZVS]``^  
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aaa`a\_aaaaa\_\_a`a^`¥\_\_]Z^\_a\_^[\`^\_Z]X\_^]Z]  
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+HWI-EAS443:3:33:724:1469#0/1  
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a`aab\_aa[aabaaaa``a\_\_S\_\_a]^`^\_\_^V]W^^]]W  
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Z¥¥]]]``^¥WZZ``\_[] [N^FWY`YS\_T]^RV\_VNYBB  
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\_¥aZab^T`a`bbb\_a```]]`aU\_^\_I¥KY[\_Ya\_[]UX  
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Y\_^`^¥V^[a\_^¥`a\_YZbb`a\_YT\_bXba\_[a]^KQS^  
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Y\_^a^aa¥Z`aa`\_bb`bbb[`aabb^`Y\_aba¥[Y¥`W^  
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\_\_¥`^b^`aaaabab]YRa\_]`]Gwa]`a\_X\_[¥a]HV]¥  
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][¥[\_ab``aba\_Q[``^]YT`\_V^b[\_`]S\_\_R¥[\_]\_U  
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+HWI-EAS443:3:39:1017:725#0/1  
W`\_`^¥`\_`\_`b^aXa[a^W\_UNW[a`\_]`a]aZaZT\_[]` `V  
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+HWI-EAS443:3:39:1114:1162#0/1  
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+HWI-EAS443:3:39:1177:1778#0/1  
]¥\_¥^\_ZXZ¥]`\_W\_ZZ^`XVUZV]WX[]]¥LQW]aV[\_R  
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a]b[U^abaa`ab`[\_`a\_\_a\_\_a`¥a\_Z[¥[X`X]]^Z^^  
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+HWI-EAS443:3:43:1126:50#0/1  
O]`R\_a`b¥Q\_\_R\_¥`aYX¥`^X\_\_a¥U¥^H[``XT¥`  
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+HWI-EAS443:3:43:1422:1937#0/1
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+HWI-EAS443:3:43:1452:1158#0/1
a__Xaa¥]`b`ab`ab`aYa__]a_aa`^U¥Z`X]___¥
@HWI-EAS443:3:43:1488:1497#0/1
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+HWI-EAS443:3:43:1488:1497#0/1
_b]````bbbb[b`[`abb]b````_X`¥a_aabaaaa`
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+HWI-EAS443:3:43:151:764#0/1
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@HWI-EAS443:3:43:155:1588#0/1
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a`ba_aaaX`[^Z]`_`[¥]`a_¥a`_Z__^_]`]]]____
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aaaaa`a_a`]`_`_`_^`__`[^`^`_¥¥^^^]UX^XQZX
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a`_OWYX`^XZaTa`[ZXW_XY]a_W]ZSSX_ZXXSS^S[
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+HWI-EAS443:3:44:1727:1566#0/1
a_a]_aa```aa_____`_a__Z`^^¥`XZZ_]Z`^^^Z
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+HWI-EAS443:3:44:405:1587#0/1
aa`a^Z^aab`^^^abV^aaaa]a[]NXaaaaaaa_a[_`
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+HWI-EAS443:3:44:630:1334#0/1
`Z`ab_X]_U¥aa¥```^ab]^X`^aa`_a[_`]W^YX
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+HWI-EAS443:3:44:685:926#0/1
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Z¥XX¥ZV^^a^]_aab_[_`^`^`_aZ^_aaVZ]^`^Wa[]
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+HWI-EAS443:3:45:1482:273#0/1
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+HWI-EAS443:3:45:1560:787#0/1
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+HWI-EAS443:3:45:1625:821#0/1
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+HWI-EAS443:3:45:35:644#0/1
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+HWI-EAS443:3:45:619:1264#0/1
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+HWI-EAS443:3:45:639:833#0/1
`Z_a]a_a^Z[¥ZNT^a¥a``_]_a``_[RZ_]a]_^]
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+HWI-EAS443:3:45:792:1249#0/1
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abaaa_`aa_`_`[^^^`W_^]`XZ``WP¥]^^^X]X]Z
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+HWI-EAS443:3:46:1001:1075#0/1
a__aTU[VOYaaYP]aU¥V___^]_V¥¥]]¥^^_^RY¥]]
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+HWI-EAS443:3:46:1036:792#0/1
aaaa_a`[a¥XVa`__`_`_a__U`]`__]]^Ya`^`^_
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+HWI-EAS443:3:46:1090:732#0/1
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+HWI-EAS443:3:46:1404:1522#0/1
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+HWI-EAS443:3:46:1703:135#0/1
¥^]]VYX¥¥SX¥L_SWOWLY_YSY^U[[N^¥XRZTB
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+HWI-EAS443:3:46:1744:1715#0/1
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__b_bbbbaabb_`¥_a`_aaaaab_]`^baY`^V¥aa
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@HWI-EAS443:3:47:524:1263#0/1
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+HWI-EAS443:3:47:524:1263#0/1
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aaaa`a^^a^`^^a`_]_]U¥^XYWY_Y¥Y^]XZWWW¥
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a`a¥a`aabba`__a^^a`a¥aa_[T]^WZ^YR]^ZU`_
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+HWI-EAS443:3:48:1084:36#0/1
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+HWI-EAS443:3:49:1595:395#0/1
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[^b_[_`a`a¥a¥¥W]_¥`¥Y_aW¥W`TZM¥XS[VRX^¥[
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aa]aa`X_`Vbaa][`Xaaaa_aa`a`^`a`ab____]]a
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+HWI-EAS443:3:4:1081:598#0/1
aaaaa]^_Zaa^)`_a_`a`^^^`[_W]X`]a`_`_`_`
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+HWI-EAS443:3:4:1086:1590#0/1
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aab¥¥^R]`_]I_a_a__RZ`OQ^_^_[b[Y``a[^I¥__
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aaa_aaa][baaa`a`a`a`_a`a^a`_a_`^`_`^`^`_____
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+HWI-EAS443:3:4:1264:918#0/1
a`aaa`_a`_]`[_a^_`_`_`[_XY]`a]¥X`_Z_X_^^
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a`a_aa`a`_`Za`[_`¥a¥¥_`¥W[K¥¥]_`¥¥_`YZ¥
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+HWI-EAS443:3:51:515:1787#0/1
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[_^a`ab¥`[_ba_ab]`Y`_ab_a]b^ab[ab[baaY¥]
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+HWI-EAS443:3:52:1622:2022#0/1
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¥S_aa`a`___`a_a`_`___¥__¥^]`PS[]Y__]`^
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^¥¥[`b¥[\_[\_Z[W`b[baX^IZ]ab``]^F\_^`Ib¥\_R\_  
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aa`a`aaa\_`a\_`\_\_`\_b¥^aa\_]`Va`^`a^\_`^`\_Y^  
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+HWI-EAS443:3:55:147:1631#0/1  
aaa[aa`aa]Y]]` `\_\_a¥X^Y]\_YV^S`^^]^W]]]Y  
@HWI-EAS443:3:55:1639:849#0/1  
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+HWI-EAS443:3:55:1639:849#0/1  
aaa`aaa`aba\_a\_aa`a`a` `]\_\_a` `^aaa`]R\_`aa  
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+HWI-EAS443:3:55:320:879#0/1  
]¥ab]aaaaaab`aaaa[aa`a[a` `\_\_aa\_R\_` [ `aa\_`  
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+HWI-EAS443:3:55:377:128#0/1  
a]^\_\_aaZV\_aaUU`^YaS]`a][\_N`\_V`aTWZ[PPV\_`



@HWI-EAS443:3:55:417:72#0/1  
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+HWI-EAS443:3:55:417:72#0/1  
aaa`^b\_a`abb`\_a\_aaa\_aa\_\_a`a^`a^a]a\_`a  
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+HWI-EAS443:3:55:547:453#0/1  
aa`baba]abaaa\_a`a]a\_\_^\_\_aW¥^¥[aa]^`\_a^`\_  
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AGAAGACAAGAGATATGGCCCAGCATTAAAGCATCAATGAA  
+HWI-EAS443:3:55:563:1768#0/1  
`a`R^¥aZRWYG[a^MY\_]T[`RWJ¥V`XW[\_^PR]HTS  
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+HWI-EAS443:3:55:850:544#0/1  
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@HWI-EAS443:3:55:8:1500#0/1  
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+HWI-EAS443:3:55:8:1500#0/1  
Y`¥SYaVJ¥abb[¥`\_a\_TaYFSaVaQGTOK]TPO^MaWW  
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+HWI-EAS443:3:56:1022:1514#0/1  
a`aaaaaaa\_a`a^\_a]Xa]`a^\_aRa`\_aX^\_[V  
@HWI-EAS443:3:56:1101:1676#0/1  
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+HWI-EAS443:3:56:1101:1676#0/1  
¥F¥\_abb`ba`\_b]a`a]a]Y^^a]\_^aa]V]```\_\_\_\_Z  
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+HWI-EAS443:3:56:1615:1674#0/1  
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@HWI-EAS443:3:56:222:301#0/1  
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+HWI-EAS443:3:56:222:301#0/1  
aa]a\_a\_a`aaa^^`¥a¥]`\_U¥YIZa¥^`WW]\_Y¥¥^Z  
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AGAAGAACCCCGCACTCAGAATGAAGTGGATGATGGCAAT  
+HWI-EAS443:3:56:246:1673#0/1  
\_JZa\_b`\_`[^[a¥^]¥TLW`ZSHL\_]^^U^]GRRS]S  
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aaaa`aa` `aaaa\_aaaa¥a`a` `b\_\_^[Ya`^a\_aa[  
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+HWI-EAS443:3:56:85:1445#0/1  
^` ` \_` `bab`^a¥b`^[\_Z]W\_[VW^[a]U` ` \_` `a\_\_\_\_  
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GAGATATGGCCCAGCATTAAAGCATCAATGAACTGAGCAAT  
+HWI-EAS443:3:56:907:1036#0/1  
` `a`ba`^Z`aaa\_¥aaaaaa\_`aa` `b` ` \_` `[¥^aa]\_a  
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aaa`]aaaaaaaa]a\_aaY`\_a^a`a\_\_\_\_\_aa^aa`a\_  
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` `aababba]^aaa\_aaa`a`a\_a`\_\_a[`aa`aaa`\_\_]  
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+HWI-EAS443:3:57:1043:1752#0/1  
a\_bbbbbbbba^bbbbabaaaa\_]baabZbaaaaaaa\_Q`  
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+HWI-EAS443:3:57:1154:827#0/1  
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+HWI-EAS443:3:57:116:1104#0/1  
aa\_^Z`U`\_Y[`H\_[Y`\_\_¥]Z\_\_]\_VZ\_\_U\_Y^\_Y\_XY  
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aaaa`¥a]]b`a\_a\_\_b\_Zaaa\_aXa\_Zaa[``XZZ]]\_`^  
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+HWI-EAS443:3:57:1473:564#0/1  
aa`aaaa]aaaabaaa`a\_aaYVW`WUa``a`^a\_aa]  
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+HWI-EAS443:3:57:1597:802#0/1  
`\_¥]aaa`ab` ` \_bbaaba`aa\_a\_a\_a^aa`^a\_[a\_  
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+HWI-EAS443:3:57:1606:993#0/1  
`bab¥a`] ^aaa\_aa`aaaaVR¥¥b^a^bab`Z`] ^b`^`

@HWI-EAS443:3:57:1636:1060#0/1  
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+HWI-EAS443:3:57:1658:552#0/1  
abb`aa^\_aaaa[baaaa\_`¥]b\_aa`¥^b¥b`[aa[¥Z\_  
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+HWI-EAS443:3:57:19:48#0/1  
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+HWI-EAS443:3:57:318:1217#0/1  
`\_bbb`¥`abaT`^^^abb]a`^\_a`a`ba\_aa`aa]¥`  
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+HWI-EAS443:3:57:353:1500#0/1  
a`^`\_\_¥`\_\_`Z¥`^]]^¥¥^]^XW\_X¥^¥ZZZ]Z]^WV  
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+HWI-EAS443:3:57:443:899#0/1  
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+HWI-EAS443:3:57:457:309#0/1  
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+HWI-EAS443:3:57:490:238#0/1  
ab`Ya]aa`\_]a\_`^a][a^\_\_`\_]U\_Xa]^V`^X`\_U]Z]  
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+HWI-EAS443:3:57:506:1457#0/1  
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+HWI-EAS443:3:57:527:1387#0/1  
aaaaaa\_`b`Ta`a`a`Y^\_a`]a\_\_\_`ZR[^W\_[\_¥\_[  
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a^abaabbbbaa\_abaaaaa^\_Xa`a`\_aa\_Yaa^`\_]¥  
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+HWI-EAS443:3:58:1108:578#0/1  
aaa`\_\_a`a\_a^`\_\_a\_^]`¥\_\_\_`]\_^]\_ZZ^`^Z]Z  
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aa\_^^aa`aaaaa\_a\_RY\_\_\_SZ`XU]`Y[U^]QU][Y¥`  
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+HWI-EAS443:3:58:1460:510#0/1  
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\_bbbbbabababab`bab\_b`aaabbaa\_a`b^¥bb\_\_`b  
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+HWI-EAS443:3:58:1632:1561#0/1  
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a`b`a`\_a`\_`^`\_`\_`a`\_Z`\_]\_\_`^\_]00]]¥`  
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^`\_`abbaa`\_`\_`aabaaba\_aa\_aaZ`aaa^]`\_`a\_ba  
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+HWI-EAS443:3:58:1676:1715#0/1  
a¥VW\_U^V]V`\_X^RS`[KJ¥`]WZV\_]W^]QK¥[USNS  
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+HWI-EAS443:3:58:470:1112#0/1  
¥^Z^`\_a¥\_Z[``\_YZ`[`a]\_WUU\_`^]`^W]Y\_]Z]¥  
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M^bab¥bbb\_`\_`ab`a`a¥b`a`\_`aaa`aa^]a\_^\_Y^a]  
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+HWI-EAS443:3:59:1285:1542#0/1  
aaa]bb^\_\_bZ\_```a`\_\_\_¥aa\_bb\_aaYUH\_^¥VRY]Z  
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+HWI-EAS443:3:59:1313:1870#0/1  
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+HWI-EAS443:3:59:1584:71#0/1  
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+HWI-EAS443:3:59:1685:345#0/1  
aa¥V`^`^^^aa]a`^a]Y[¥\_]`[]`\_ZT\_¥¥TU^¥W  
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\_^\_¥a`][H^\_¥[\_\_`a¥`^¥R\_`^`¥a```V\_[[UVWYQ  
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+HWI-EAS443:3:59:59:1196#0/1  
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a\_Z`\_aa^)`\_aaYaYa\_a`^aaaa`¥]a`^Y[a`ZZ\_]`  
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+HWI-EAS443:3:59:950:409#0/1  
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+HWI-EAS443:3:5:1098:395#0/1  
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a`a\_\_]]¥a^\_]a^aaaa\_aa]a^aa^]]a^aW]\_Sa\_  
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+HWI-EAS443:3:60:1110:1047#0/1  
`aaaa`aZaaaa^a\_\_X\_`^aZ[\_[[\_U\_]^X^¥[\_¥\_  
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a\_a\_¥`^`^[\_`^`\_\_\_^VR^`\_]X`U\_VZ]]UUZYXX^  
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a`aY````^\_^aU[\_\_\_XaUaa`W`SUS^`\_¥]O`O]^^^  
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+HWI-EAS443:3:60:398:334#0/1  
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+HWI-EAS443:3:61:313:496#0/1  
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+HWI-EAS443:3:62:118:1375#0/1
a`aR]_`_`[_[]Yaa¥`[¥TY__]X¥__]_XPYYY^]]^
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+HWI-EAS443:3:62:1742:301#0/1
¥aVbaXa^`ba[_`^^`YV^_VY¥X_X]]^S^]Vb]W_
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+HWI-EAS443:3:62:199:1498#0/1
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+HWI-EAS443:3:62:43:919#0/1
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a[a]_abb]aaa_abbaaaaWN`aU_`Vaa_`aY]a]Z
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+HWI-EAS443:3:62:719:44#0/1
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+HWI-EAS443:3:62:838:1191#0/1
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+HWI-EAS443:3:62:867:42#0/1
_¥`^b`aba`ab`_a^a`bJ_ab^Pa¥aaSY`[_a¥¥V¥^
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+HWI-EAS443:3:63:1108:586#0/1
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_V¥]Y_TY[W¥]¥YVVZ]¥_VV]aWPYFY^ZTYLQXYSRO
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a_a__`a`a`a`]_`aaaa`aaa_a__`]_`__`^a``_a
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_R_a[_W__¥]ZZ¥_YY_aaa^_Y_`^]U^a¥T]¥`WJ[Y
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^_aaabbaba__`b`a_b_^b¥aaa`_a^a_^a`__a[¥W
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+HWI-EAS443:3:66:1580:1285#0/1  
X^^Y¥¥^`bYZb]]]aaa]\_XS\_\_a¥¥``a\_\_][\_\_][YXM  
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\_[^aaaba\_a[b\_`aa^`a\_] [Z`^]X[\_¥`^Za\_]`¥  
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aa`¥aZa\_V¥\_aaa\_a]V]Z]]^\_]\_W[`\_¥¥YYWP[¥\_  
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aa\_W\_\_\_a\_a\_``aa`a`\_P`YV^`]S\_V^`^Y\_]YPZ^  
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aaa`\_\_`\_\_^a]`\_^`a^]`\_V`\_\_\_^\_X^XXWV^]U\_¥  
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+HWI-EAS443:3:67:36:1566#0/1  
^a\_\_abaab`¥`a¥aa`¥`\_\_\_`]XZ^`W\_\_\_¥W[VZXRZ  
@HWI-EAS443:3:67:380:306#0/1  
AAACAATTTCGACACTAATTGATGGCCATCCGAATTCTTTT  
+HWI-EAS443:3:67:380:306#0/1  
a`aa`Za\_a`a\_b\_[aa`^`^\_ZS^\_\_]\_T[V\_^Z¥W^^^  
@HWI-EAS443:3:67:413:762#0/1  
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+HWI-EAS443:3:67:413:762#0/1  
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+HWI-EAS443:3:67:41:1809#0/1  
aa¥Va`\_a]`ZX¥\_a\_Y¥^a`¥`\_ZT¥ZZR¥ZT[YYZ]M  
@HWI-EAS443:3:67:446:1069#0/1  
ATGGCCCAGCATTAAAGCATCAATGAACTGAGCAATCTTGC  
+HWI-EAS443:3:67:446:1069#0/1  
a\_TP\_¥`baaaZ¥ZZLWT]`\_`[[^^XWYX[\_\_\_]UZR¥T  
@HWI-EAS443:3:67:488:1294#0/1  
CAAGAGAAGAACCCCGCACTCAGAATGAAGTGGATGATGG  
+HWI-EAS443:3:67:488:1294#0/1  
`\_]\_] [bbVY`[\_ba]`ZbaaTa\_\_\_OHVUUaTNYV]U]^  
@HWI-EAS443:3:67:525:1765#0/1  
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+HWI-EAS443:3:67:525:1765#0/1  
]bba`Yaab`\_\_`ab\_YUa\_Ya`a\_aa\_S]aX[]]^`aa^

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+HWI-EAS443:3:67:552:670#0/1  
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@HWI-EAS443:3:67:556:144#0/1  
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+HWI-EAS443:3:67:556:144#0/1  
`]`\_bbbabba`^a\_Zaaaaaaaa`\_a¥]`a`a][[]V  
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+HWI-EAS443:3:67:612:1575#0/1  
Z`aab[]a`ba`\_]bab`]`aaaa\_¥]`a[^`a`\_aa  
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+HWI-EAS443:3:67:612:782#0/1  
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@HWI-EAS443:3:67:623:1301#0/1  
GATTGCTCAGTTCATTGATGCTTAATGCTGGCCATATCT  
+HWI-EAS443:3:67:623:1301#0/1  
a]aa[aYa`a]\_`a`a^¥\_`\_aa`\_`W`X\_ZW¥]a`Ya`  
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+HWI-EAS443:3:67:641:1691#0/1  
aabbbb\_aba`aaa\_aabaaaa\_\_\_\_a^^¥aab^`\_`a`  
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CAATTCGACACTAATTGATGGCCATCCGAATTCTTTTGGT  
+HWI-EAS443:3:67:71:691#0/1  
aa`aaaa\_aa`aa`\_a`\_a`aa\_\_\_\_^\_\_\_\_]\_\_\_\_]\_Y  
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+HWI-EAS443:3:67:804:1460#0/1  
RV^T¥¥VSZ^a`[HUT`bbbbYY¥b\_JX\_]`^`T^aaaa¥  
@HWI-EAS443:3:67:848:95#0/1  
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+HWI-EAS443:3:67:848:95#0/1  
aba^a¥[aa`Z\_aWZ[`WaX`^Y`S¥VRGXZUPPTPWIZ^  
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+HWI-EAS443:3:67:865:73#0/1  
aZ\_X^UbZYab`\_`\_bYaba\_¥ba`\_]R^aZ\_ZSa]\_X\_  
@HWI-EAS443:3:67:882:1142#0/1  
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+HWI-EAS443:3:67:882:1142#0/1  
aaaaaaaa`aaaaaa`a`a`a`aaa\_\_aY``\_\_`\_^Z\_]^^  
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+HWI-EAS443:3:67:904:366#0/1  
a[aa\_[aaa[¥\_\_^¥\_a`^\_]a^`V^\_[\_\_`X\_\_\_\_XY\_¥`  
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+HWI-EAS443:3:67:969:109#0/1  
aab`abbb`aaa`\_aaa`aaa`a`^aa\_aa\_]\_Zaa\_\_^\_  
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+HWI-EAS443:3:68:1037:1617#0/1  
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+HWI-EAS443:3:68:1068:665#0/1  
aba`bbbaa`aaaaa``Xaaa`baaa`a`a`a[¥`\_aa``  
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+HWI-EAS443:3:68:1077:1131#0/1  
¥¥¥\_abb`a``\_¥Y\_a``^[````¥\_] [ ` ] ^X¥ [ ^ ] \_\_ ^ [   
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+HWI-EAS443:3:68:1138:849#0/1  
aaa¥aSY[ZYX\_\_UaRQ\_\_\_Ya]\_`\_]WNWY[PPWaZS[QQ  
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+HWI-EAS443:3:68:1171:1554#0/1  
aa\_\_aY`a``\_]WX¥a¥[[^\_\_Y¥TT\_^\_[ZFT¥PW^]S  
@HWI-EAS443:3:68:1195:625#0/1  
TATGGCCCAGCATTAAAGCATCAATGAACTGAGCAATCTTG  
+HWI-EAS443:3:68:1195:625#0/1  
abY\_aaa```\_]aaaaa]\_`a\_aaaa`\_`a^\_a`a`a`a`a`a`  
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+HWI-EAS443:3:68:1359:226#0/1  
a`aa]a\_a`¥a`^`^`aa[]ba\_]`QaaZa``Z\_\_¥^^\_¥  
@HWI-EAS443:3:68:1503:726#0/1  
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+HWI-EAS443:3:68:1503:726#0/1  
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+HWI-EAS443:3:68:1518:1686#0/1  
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+HWI-EAS443:3:68:1587:512#0/1
aba`^`¥X]a_a]W`_a]a__a___`a`TU[]^`¥`_`Y`^`
@HWI-EAS443:3:68:1620:1580#0/1
AGAGATATGGCCCAGCATTAAAGCATCAATGAACTGAGCAA
+HWI-EAS443:3:68:1620:1580#0/1
a`bba¥b`bV`Y`¥aa^^`b`^Xba_ba`b`aa^^`aaa_

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GCAAAGAAGACAAGAGATATGGCCCAGCATTAAGCATCAA
+HWI-EAS443:3:68:178:1500#0/1
`_TZa^aaa^aab``````a¥[_`_`Y`a`aa`aa^a]V
@HWI-EAS443:3:68:200:1225#0/1
GAAGAACCCCGCACTCAGAATGAAGTGGATGATGGCAATG
+HWI-EAS443:3:68:200:1225#0/1
O_`¥^abbbaTa`_^[¥`U_a_]I¥G_b_a]¥P[ZGZYVR
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+HWI-EAS443:3:68:32:1185#0/1
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+HWI-EAS443:3:68:511:192#0/1
Wa]VV_bb_bbaVUa_X^`Xa_W[aFZ]H]a_a`^ODPXX
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+HWI-EAS443:3:68:583:806#0/1
aaaaa]a]aaaa^_aaaaa`aa_aa_^Y`[_[_^]Z^^
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+HWI-EAS443:3:68:604:926#0/1
abbba_¥bba_a`aaa`aaa_abbX_aaaaaaaaa`a`_`
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+HWI-EAS443:3:68:631:1231#0/1
Za`a`bbba]¥_aa^a`[^aaa^aaa^a`]^_^[Z`¥¥]
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CAATTCGACACTAATTGATGGCCATCCGAATTCTTTTGGT
+HWI-EAS443:3:68:631:536#0/1
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+HWI-EAS443:3:68:761:1587#0/1
aa_aaa^aaaaaaa`Y`^^^Y^aaaa`[¥]`_¥[`^W_`_
@HWI-EAS443:3:68:789:681#0/1
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+HWI-EAS443:3:68:789:681#0/1
^^`[G]``_`¥^__^[a¥[STRUURSZSUX¥YYW_]UZ]V
@HWI-EAS443:3:68:882:274#0/1
CAATTCGACACTAATTGATGGCCATCCGAATTCTTTTGGT

+HWI-EAS443:3:68:882:274#0/1
¥[`Xa_`b`bbbaababb`bbbb`Z_`bbbab]Z¥`
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AGAAGACAAGAGATATGGCCCAGCATTAAGCATCAATGAA
+HWI-EAS443:3:68:900:768#0/1
aaaaaaa`_a_aaa_`^`_`aa_a`_`YX¥__`____`
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+HWI-EAS443:3:69:1019:1872#0/1
abbaaaaaa]`_a_a`^aa`_a^aa`_`_`_`_a_a]____
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+HWI-EAS443:3:69:1237:389#0/1
a`aaa]aabXaaa^a^]_V¥a`_aaYb^]__LZ^`^]_`a
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TAAGCATCAATGAACTGAGCAATCTTGCAAAAGGAGAGAA
+HWI-EAS443:3:69:1244:275#0/1
abaaaaaaaa`_a¥a____^_]a^a`^`_`^_a`^a_a^¥
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CATTTTGGGCAAAGAAGACAAGAGATATGGCCCAGCATTA
+HWI-EAS443:3:69:129:1316#0/1
a]_a`¥]WX_]`^[]¥Y`_ZPVV¥_¥YS¥ZY[^V^]VW[
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+HWI-EAS443:3:69:1496:880#0/1
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+HWI-EAS443:3:69:1659:318#0/1
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@HWI-EAS443:3:69:1764:831#0/1
TTAAGCATCAATGAACTGAGCAATCTTGCAAAAGGAGAGA
+HWI-EAS443:3:69:1764:831#0/1
R¥^ZY[S_[XX`a^a`S[FZZTTVZZUT_]WYU_¥¥Z_`^`
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TGCCATCATCCACTTCATTCTGAGTGC GGGTTCTTCTCT
+HWI-EAS443:3:69:279:1455#0/1
`]abbaa¥_`b`baa`^a```````[ab```]S_aaaaaa
@HWI-EAS443:3:69:290:1589#0/1
AGAGAAGAACCCCGCACTCAGAATGAAGTGGATGATGGCA
+HWI-EAS443:3:69:290:1589#0/1
aaaabbabbababaaaaa`_a[```__aXa`_`^`]]^Ua^
@HWI-EAS443:3:69:36:70#0/1
TGGGCAAAGAAGACAAGAGATATGGCCCAGCATTAAGCAT
+HWI-EAS443:3:69:36:70#0/1
babba`aa^aa`a]a_a^`]a`_]X_]_]_]_]_]¥]Y
@HWI-EAS443:3:69:372:278#0/1
ATTTTGGGCAAAGAAGACAAGAGATATGGCCCAGCATTA
+HWI-EAS443:3:69:372:278#0/1
abaabb`¥aaaa`^a``a`_aa_aa]____VV]__````_`

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+HWI-EAS443:3:69:509:1474#0/1
aaa¥a_]aZ]a¥aX[¥`a^a__`_`^[Za__`^ZU^`_`
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CAGCATTAAAGCATCAATGAACTGAGCAATCTTGCAAAGG
+HWI-EAS443:3:69:660:119#0/1
aabbbbabaaabbaaab`aabaaaa`a_aaa_a^`_a`
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AGAAGAACCCCGCACTCAGAATGAAGTGGATGATGGCAAT
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a[^_X_aaa]_a[``aaa`NZaaa`_Haa_``]YY`Z[^
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+HWI-EAS443:3:69:699:76#0/1
aba^abbbbbbb^bbabbabaX`_a_baaa_a`¥¥Z`_]a`
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+HWI-EAS443:3:6:1009:1294#0/1
YbVaV¥_`^`U^_VT_]_]babaH`abPYYa^ab_b`a``
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+HWI-EAS443:3:6:1165:777#0/1
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+HWI-EAS443:3:6:1623:669#0/1
`bbbaabSa^aab`a`a_PXYa`a_aX^a`_¥aa0_`^`
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GAGATATGGCCCAGCATTAAAGCATCAATGAACTGAGCAAT
+HWI-EAS443:3:6:166:393#0/1
aa`aaa`aaaaa`_ba`aaa_``^`````_`^`_`_____
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+HWI-EAS443:3:6:1674:1232#0/1
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@HWI-EAS443:3:6:1734:1747#0/1
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+HWI-EAS443:3:6:1734:1747#0/1
a_Xab[a¥¥X`baaaa_`0`RU`^SUJa`aY_`^0a_XBB
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CAAGAGATATGGCCCAGCATTAAAGCATCAATGAACTGAGC

+HWI-EAS443:3:6:208:240#0/1
a` [¥TZ]^^Z]^]aYXY[]a` [Z^`] ` _UU][NX^_^`Z
@HWI-EAS443:3:6:243:1028#0/1
GCTCAGTTCATTGATGCTTAATGCTGGGCCATATCTCTTG
+HWI-EAS443:3:6:243:1028#0/1
a` `]F[_N]a^a^__Z`_] ^SP]_¥WX¥__^`Z^Z_]¥
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GAAGAACCCCGCACTCAGAATGAAGTGGATGATGGCAATG
+HWI-EAS443:3:6:429:1189#0/1
_¥bbaa][aaaa¥^aab[_aa¥¥aXa`a_a_^a]FY__`
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GAAGAACCCCGCACTCAGAATGAAGTGGATGATGGCAATG
+HWI-EAS443:3:6:492:1092#0/1
aa` ` ^NWYVaa` [U]_ZVV^`X]^V¥WZV^XYVYUVXVB
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+HWI-EAS443:3:6:532:1642#0/1
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+HWI-EAS443:3:6:538:1912#0/1
^Z¥_Za]aaaaXZZH¥aa^a` [aaaa__aUTZ`^`^B
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+HWI-EAS443:3:6:588:1463#0/1
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+HWI-EAS443:3:6:861:679#0/1
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+HWI-EAS443:3:6:947:375#0/1
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+HWI-EAS443:3:70:1058:1558#0/1
a`a`bba`bbabbaababa_Za`b]a_ba`aX` `aabaa`
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+HWI-EAS443:3:70:1193:1387#0/1
a_aa`_`aaabb_aa`a`_`a`_aa`a`a`_`¥^^`_a____
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+HWI-EAS443:3:70:1264:1097#0/1
]abb_aaabbab` `aabbbb`bbbaaaabbb` `aababaa
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+HWI-EAS443:3:70:1299:1163#0/1
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@HWI-EAS443:3:70:1407:1171#0/1
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+HWI-EAS443:3:74:1384:319#0/1  
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@HWI-EAS443:3:74:1419:744#0/1  
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+HWI-EAS443:3:74:1419:744#0/1  
\_a`I\_[a`aY`]XY[a`a[aa¥`a`XaNb`a]\_^VZ]  
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+HWI-EAS443:3:74:1446:1234#0/1  
a\_bMaba¥S¥]]`V]\_bX\_aa`][\_Z`]\_\_^\_a]TR^  
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AGAGAAGAACCCCGCACTCAGAATGAAGTGGATGATGGCA  
+HWI-EAS443:3:74:1540:1121#0/1  
`¥N[N¥`\_]`¥`Q\$ab\_N]][]a[[]^`]¥aG`a^]W  
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+HWI-EAS443:3:74:1559:697#0/1  
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+HWI-EAS443:3:74:1564:692#0/1  
`¥a`b`aba^\_baab`aaaaaaaa`\_aa]aa`\_aY\_a\_aa  
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+HWI-EAS443:3:74:1620:2022#0/1  
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+HWI-EAS443:3:74:164:1604#0/1  
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+HWI-EAS443:3:74:167:233#0/1  
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+HWI-EAS443:3:74:32:1730#0/1  
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T[VW``UUWZaaa\_R`WZWa`PFQ[N^MQW[TRXRY]\_  
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+HWI-EAS443:3:74:427:410#0/1  
aaaaaa`a`````aa`\_`aa`\_^\_\_a^`\_`a^]\_\_a]^a`\_`

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aa`UW\_aba]`b`a¥^`XP¥^]]W[¥XXY^^¥]SVXVSV[  
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+HWI-EAS443:3:74:439:1759#0/1  
`Z^`^a\_a]b\_aZa\_`\_[\_W]\_a]S]aZ\_\_\_]\_]Y\_^\_VNU  
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+HWI-EAS443:3:74:511:1325#0/1  
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+HWI-EAS443:3:74:542:1331#0/1  
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+HWI-EAS443:3:74:820:267#0/1  
aaa`bab`aaa\_b\_aa`aaaaa^^\_[a`]a`^`\_a\_a``a  
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+HWI-EAS443:3:74:829:98#0/1  
aa`\_\_aaa¥a\_a`\_`\_\_^^\_]\_]\_^`XX`V]¥]\_Z]Z]  
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+HWI-EAS443:3:74:96:1885#0/1  
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a[RS\_\_aaaab`]a\_a``aa\_\_^[`a`\_]\_\_a`a^]¥\_[  
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+HWI-EAS443:3:75:1168:1250#0/1  
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+HWI-EAS443:3:75:1202:1139#0/1  
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+HWI-EAS443:3:75:1205:1441#0/1  
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+HWI-EAS443:3:75:1483:266#0/1  
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+HWI-EAS443:3:75:1564:1833#0/1  
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+HWI-EAS443:3:75:191:42#0/1  
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+HWI-EAS443:3:75:269:1755#0/1  
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+HWI-EAS443:3:75:374:1006#0/1  
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+HWI-EAS443:3:75:614:1336#0/1  
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U\_UJ¥\_a¥\_``\_X\_Z]¥¥Y^TZW[[TZSZZ\_`^Z]a¥U  
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¥\_babUbbba]\_bba`abaWaaaa`b¥bb\_aa`\_`aa`a\_  
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+HWI-EAS443:3:76:1311:1796#0/1  
ab`a`abbaaa`a\_a\_a`a\_\_¥a`\_\_\_\_\_a\_\_a`\_a^  
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+HWI-EAS443:3:76:1430:387#0/1  
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+HWI-EAS443:3:76:1600:1829#0/1  
a`] `a^aa\_b`\_aaa]a``aaaa\_\_\_\_\_`¥\_Va`\_W\_^^^  
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a\_X`ITW[\_YTW[\_\_\_ZZ`aa¥\_a`NP[[aVNLV^a\_[]X^  
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+HWI-EAS443:3:76:621:1216#0/1  
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a`YVaa``a^\_\_a[¥\_\_\_^\_]aa`[[]\_\_aU¥[^\_^^`\_`  
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+HWI-EAS443:3:77:1053:1841#0/1  
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+HWI-EAS443:3:77:1379:1637#0/1  
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+HWI-EAS443:3:77:1758:962#0/1  
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+HWI-EAS443:3:77:221:2042#0/1  
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+HWI-EAS443:3:77:255:159#0/1  
¥]babaa`aaba`\_a`aa`\_¥aa\_\_\_^`\_^]\_¥]^]\_¥\_  
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\_Y\_[Z]^Q]N^T]Za`ZUZb`\_a¥`^[b`SPT`a`¥^`ZS  
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+HWI-EAS443:3:81:1007:2033#0/1  
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aaaaaa\_\_a\_aaa``¥YZZ\_aUZX`\_`\_Z\_^a\_[¥]]¥\_U  
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+HWI-EAS443:3:82:461:1569#0/1  
^`XWY¥`b`^W¥[aU[SGUa````X`b[]\_NYaWGY\_Sa\_  
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+HWI-EAS443:3:82:482:307#0/1  
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+HWI-EAS443:3:82:510:510#0/1  
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a\_]`b`aabb^¥\_aaaa\_\_aa^^\_]\_a\_\_a[^^`]Y\_[W  
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+HWI-EAS443:3:83:1250:977#0/1  
Y]W\_[a`\_`a\_¥^a\_U¥\_X[^`^`¥`\_b`¥`\_a^S]\_`W  
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aababa`bbbbaaba¥Za\_b\_X\_a¥\_aTaaa\_]Y^\_a^a^  
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TUX[Z[^\_]WY]^]Z[^ZXY```aXT^\_[`[R^a\_]WW`  
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+HWI-EAS443:3:83:316:52#0/1  
a]a`\_\_a`aV\_a][``\_`\_^]`]]`\_\_\_\_`^^`WU`]\_\_]  
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+HWI-EAS443:3:83:552:325#0/1  
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+HWI-EAS443:3:84:1343:463#0/1  
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+HWI-EAS443:3:84:1521:1902#0/1  
¥QZ`a`\_VZaab\_\_RW]L`I¥aaU\_`a\_\_^[[`a\_\_[U\_`^  
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\_X¥¥`¥\_a`Ya`¥V¥aa``aaa`a]TaY`T`^¥a\_aa\_\_  
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aa`a\_aaaaaa`aaa`\_`\_]\_¥^\_\_\_\_`\_a\_a\_\_a\_`\_`

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a\_ab\_a\_\_W¥aaa¥aa\_`\_`a^]¥^[]``[[RT\_\_][]\_a  
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a`ab\_aaabaab`aa`aa^a\_a`aaaa`\_`\_aa`\_`a`aa`  
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aaa\_U]aa\_\_aa`YG^a[R¥`\_`aSaYZV]\_U]a`^a\_a^]  
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+HWI-EAS443:3:85:289:76#0/1  
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+HWI-EAS443:3:85:686:636#0/1  
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ZX``\_W\_YaaYb¥^aa[^`a^H¥baT`a`baS\_dW^^^]S  
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\_b^^ab\_bbab`b\_aa[ab^a\_ba^\_Yab`aa[aaG``^¥  
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a]aa\_\_]\_bUaa`¥^]\_^\_\_a\_\_]a\_\_Z\_\_]]\_`^^`R  
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aba\_Y[\_^a`^¥¥a\_a\_``]SX¥`¥[\_`^YWMY\_YYV]]  
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+HWI-EAS443:3:87:1058:1545#0/1  
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¥`)]`[aa`ab`[]`[`b^a\_abY`aaaa`^YZ[^a`^`a¥  
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+HWI-EAS443:3:89:1196:1514#0/1  
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+HWI-EAS443:3:89:1319:150#0/1  
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a`baaba`a`ababa``\_b\_aaa\_\_a^a^`\_\_\_\_^a¥^¥]  
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\_`baaa`aabbba\_a\_a`\_\_aaaa`aaaa\_aa¥¥^\_\_\_\_`  
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+HWI-EAS443:3:89:254:618#0/1  
abb`abbaba`aaa^aaa]abaZ`a``a\_X]``aa\_a`aa  
@HWI-EAS443:3:89:258:1006#0/1  
GAAGAACCCCGCACTCAGAATGAAGTGGATGATGGCAATG  
+HWI-EAS443:3:89:258:1006#0/1  
aaaaaba]`\_`aa`a`a¥``a]\_aU`\_\_Y`¥X\_\_^W^[\_  
@HWI-EAS443:3:89:258:1098#0/1  
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+HWI-EAS443:3:89:258:1098#0/1  
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+HWI-EAS443:3:89:339:924#0/1  
```aaa^[^\_aaab\_aaa`aa`aa`R]\_a\_`\_\_\_\_]Sa\_  
@HWI-EAS443:3:89:359:894#0/1
CATTGCCATCATCCACTTCATTCTGAGTGC GGGGTTCTTC
+HWI-EAS443:3:89:359:894#0/1
XZaaa¥`^bTS]R)``VW`^YWGRQ`[`OTVXYWHL
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+HWI-EAS443:3:89:429:741#0/1
a]VaZ^Pa_a`aa__U[`^`¥¥`^____]`_[S¥^XRS^]_
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+HWI-EAS443:3:89:499:146#0/1
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@HWI-EAS443:3:89:537:1383#0/1
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+HWI-EAS443:3:89:537:1383#0/1
¥^a_`[S`¥¥^S¥ba`^S`Z_]¥¥Zb`a`baa`^T]aa
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+HWI-EAS443:3:89:619:1976#0/1
aaababaabaaa_aaa`aaa_a_aa^aaX`__`^^^
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+HWI-EAS443:3:89:634:606#0/1
abbbba)`abb_SZ`aabbb¥bbbaa_ba^^_¥aa^aaa`_
@HWI-EAS443:3:89:693:1457#0/1
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+HWI-EAS443:3:89:693:1457#0/1
aaaaaaaaaaaa`aaa`_aaa_a_aa`__`_]_^```
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+HWI-EAS443:3:89:694:773#0/1
^]_`XU[V^aZa¥ZZOTX^ZOY^Z[UZUM¥TRU``XZ`VP
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+HWI-EAS443:3:89:711:1630#0/1
aaaaa[ba`b)`abaa`_aa[`a`_aGb^`aaaX¥a_Z^^
@HWI-EAS443:3:89:736:1174#0/1
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+HWI-EAS443:3:89:736:1174#0/1
a`_`])`_aa_a`_a_]`_aY____]U_X__[`^`XX^^UUY
@HWI-EAS443:3:89:744:1579#0/1
GAAGAACCCCGCACTCAGAATGAAGTGGATGATGGCAATG
+HWI-EAS443:3:89:744:1579#0/1
¥¥W`T`a`_ZZX¥_¥`[Z[^ZZVQ^X]UVa¥Q_UZNVZ`]

@HWI-EAS443:3:89:858:1063#0/1
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+HWI-EAS443:3:89:858:1063#0/1
ab¥^aba]_Y[_`_`a]aaaa__a[`aaaX_``_a¥`a`aa
@HWI-EAS443:3:89:890:185#0/1
GAGAAGAACCCCGCACTCAGAATGAAGTGGATGATGGCAA
+HWI-EAS443:3:89:890:185#0/1
aabaaaa`ZZ]a``_`^_a^_a`^]_Ua__^`]]]]VW[
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+HWI-EAS443:3:89:895:953#0/1
aa]a`]^a_]a`ababbbaa`aa^`_`baaa_a_¥_aaa_
@HWI-EAS443:3:89:899:1910#0/1
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+HWI-EAS443:3:89:899:1910#0/1
a```_¥a^aaaa`a^¥^bKa]a¥Zaa`_U``a^`a]_____`
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+HWI-EAS443:3:89:928:1229#0/1
_^[b[WaaTF[aU_W`OMa_``a^^a0^__Ya[^WTFZ[_
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+HWI-EAS443:3:89:95:2022#0/1
ab]`abaa`[[b]`a`¥_]Z_WJUV_a`_a^Y^ZY`a^W
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+HWI-EAS443:3:89:985:691#0/1
abaaaaa_]b_aaaaa`aa_aaa^¥^`¥aaa`a_^`^U
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+HWI-EAS443:3:89:992:581#0/1
_aaa`aa¥baW`__¥^`bbb]aY^TabbY`bbababbWba
@HWI-EAS443:3:8:1014:448#0/1
AGATTGCTCAGTTCATTGATGCTTAATGCTGGGCCATATC
+HWI-EAS443:3:8:1014:448#0/1
aa_aa`X]aaba`W`b`aSaa¥`_`Wa____^¥¥[U]`_`]
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+HWI-EAS443:3:8:1197:184#0/1
aab`aaaaaaa`aU^X`a`__a`¥a^_aZ``]X_^¥V`^
@HWI-EAS443:3:8:1215:531#0/1
TGGGCAAAGAAGACAAGAGATATGGCCAGCATTAAAGCAT
+HWI-EAS443:3:8:1215:531#0/1
ab_b_[aaa__a`_a^`_a_]`Y]^]]]]U__]]Y^^]^
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+HWI-EAS443:3:8:1216:1852#0/1
aa`¥a^aa_¥a^[_^a``_Z`_a`_`_`^`_]ZZZ^`_aV_
@HWI-EAS443:3:8:122:1408#0/1
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+HWI-EAS443:3:8:122:1408#0/1
a`^_a_a_a`_____`X]_U_]_^W_W_]XY^X[WW]
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+HWI-EAS443:3:8:1253:367#0/1
_`_aaaaa`b[`aaa`a^aS^`a^`_`a__^`^^Xa_^_
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+HWI-EAS443:3:8:1266:1358#0/1
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a`aa^a_a____^a`_Z`¥a]^`^`XL¥W`_¥_^VWU¥WSU
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+HWI-EAS443:3:8:1287:822#0/1
ab`aaa`aa`b^]_`^`a^a`N_]a`^]a`^`__a^
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+HWI-EAS443:3:8:1313:469#0/1
aa`aabbba]^a^`__`Zba`aa¥aa_] [a`^`_]_a`WX
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+HWI-EAS443:3:8:1320:44#0/1
``^b¥V¥abb`a`a_b`_`a`WWFR[[aXY__0aS_
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+HWI-EAS443:3:8:1431:1706#0/1
ab^Xab¥b_b_babab`bb`bbb^R_aa`_`a`_`a`
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+HWI-EAS443:3:8:151:1926#0/1
a`aa^Y]¥b^a`PQ`U¥`[XZY[XT_] [¥^_SRQK[GY_
@HWI-EAS443:3:8:1527:422#0/1
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+HWI-EAS443:3:8:1527:422#0/1
aba^a_ab`a_aaa_Sa^^__¥a]a`^^`^_]`_`^`^_
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+HWI-EAS443:3:8:1530:1426#0/1
a`b`aaaaaaZ___a`_]aYZa[^`^Z_Ya_R]^X]XX
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+HWI-EAS443:3:8:1541:1050#0/1
a`_`a`aa`_`a]`_]`a[aa_aa_aZ_RS_]XMKY^Z^]S
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+HWI-EAS443:3:8:1576:466#0/1
``a]ba_aX[Y]Q^`Y`a`^__ [IX[_`_`_Z_Z]^W^V]

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a]`aSabZaaSW^Ra`a_^_aU`aaUVa¥G`_^YaUYZ¥L
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+HWI-EAS443:3:8:1750:681#0/1
¥_bbb_a^_Z_abb`bb`_aab`_^abab_YbXXQ[^W]a
@HWI-EAS443:3:8:302:1062#0/1
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+HWI-EAS443:3:8:302:1062#0/1
a`[`a¥X_]`^aa`_[a`a__]__[aS_]_`^[_]¥P[]
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+HWI-EAS443:3:8:335:569#0/1
¥_a]]bbbab`a__]_b]]`b_ab]]aa`bY_aSFZ^]a
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+HWI-EAS443:3:8:429:1403#0/1
TNF]_WZa]`[_a^]ab``Z[a`_[ZZb`¥YUT``X`P¥_
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+HWI-EAS443:3:8:473:1705#0/1
abb¥bbbab`babX]abababaaaU`a^_`b[_aa^^P
@HWI-EAS443:3:8:48:1896#0/1
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+HWI-EAS443:3:8:48:1896#0/1
``]U```aa_]``¥P¥Jb]L_PZ]]_ZX[]_W¥H_T¥aaa
@HWI-EAS443:3:8:83:1447#0/1
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+HWI-EAS443:3:8:83:1447#0/1
ab_aaaa_aaQ`_`[]SZ^[]]¥^]¥G[]XRZ^]¥STV
@HWI-EAS443:3:8:88:821#0/1
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+HWI-EAS443:3:8:88:821#0/1
a_b`bbaaab_abbabaaaabaXa_``baaab_ababa_a
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+HWI-EAS443:3:8:898:1685#0/1
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@HWI-EAS443:3:8:900:1019#0/1
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+HWI-EAS443:3:8:900:1019#0/1
aaaa^`aaaa_`a_a```^¥X]`aY]^U_^^]`]U^^RU
@HWI-EAS443:3:8:903:793#0/1
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+HWI-EAS443:3:8:903:793#0/1
a¥`[^aaa`___ULVR^_WQ_[Q_[ZS^QOX]^^^Z[[ZY
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+HWI-EAS443:3:8:944:186#0/1
aba`aa¥aa^]aZ]_`bZa]ab_`YZ_`^aaaZS¥X_a[]
@HWI-EAS443:3:8:94:498#0/1
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+HWI-EAS443:3:8:94:498#0/1
abb_abaaaba[YI_a[aRaX^_[a_¥TSY^X`]a¥]`^^
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+HWI-EAS443:3:8:978:1087#0/1
_aa_a`]U_^a]¥`a_]`_[X_]`^^`^^0^[Z^__W`^
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+HWI-EAS443:3:90:1036:293#0/1
`__bWb¥aba```abSY^`aa_X`]_]`a___a`aa]YN
@HWI-EAS443:3:90:109:712#0/1
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+HWI-EAS443:3:90:109:712#0/1
a]a_]¥^aaaa_[Yaa]^NX_¥UKU]a^^`a^_UN]]__]
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+HWI-EAS443:3:90:1143:680#0/1
_[a]aaaa_a]a`a_a_aaaaa__a_]aaa`a0a__a¥a
@HWI-EAS443:3:90:129:1180#0/1
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+HWI-EAS443:3:90:129:1180#0/1
aa`a]ba`bbbbaab`]``_b^a`a`^^[[[]``Z____`_
@HWI-EAS443:3:90:1316:864#0/1
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+HWI-EAS443:3:90:1316:864#0/1
`_bbabbbbab`¥]^`Z`baa`R__X`]^aaa__X
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[aTS]KY`[]_[[_¥b^bb_¥`V]]]abZV¥__U]bZ`aa
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+HWI-EAS443:3:90:137:396#0/1
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+HWI-EAS443:3:90:1564:855#0/1
[^ZQ_b`¥`ba]aYaaa^`[[_aX_N¥aZ``]aaXFX`[V
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+HWI-EAS443:3:90:1602:1803#0/1
ab_aba`R^babaa¥Y`aaaa`[G]`¥_b^_aXS[X____
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GACAAGAGATATGGCCAGCATTAAAGCATCAATGAACTGA
+HWI-EAS443:3:90:1614:1763#0/1
a^a`UJYaU^`^a`^_`ZVZ____^_YRTW^Y^]ZZ^X^Z

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+HWI-EAS443:3:90:1731:767#0/1
^`bb`b`[`bb^bbb^[abaYa_`^a^aba__U^_a_
@HWI-EAS443:3:90:1782:853#0/1
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+HWI-EAS443:3:90:1782:853#0/1
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^_T[a`^Xaa_aV[TUZ]Va__TXV^[Y__a^QLV`_N¥V
@HWI-EAS443:3:90:24:605#0/1
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+HWI-EAS443:3:90:24:605#0/1
aaa`a_aa`a]__¥^VVP__ZT[_^ZZ`XX_[XZR^ZZZW
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AGAGATATGGCCCAGCATTAAAGCATCAATGAACTGAGCAA
+HWI-EAS443:3:90:376:241#0/1
abTba¥a_aaa` `` ` _aa_a__`¥`W^__^^^_^_] ^S_
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+HWI-EAS443:3:90:451:1383#0/1
abbaabbaabaaU`V¥aaaaa`_Y`_a`Ua`_`_^]_¥`_^
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+HWI-EAS443:3:90:468:760#0/1
]`a`b[^_^]`b]_X_` `^b[X` `¥^`QaaX[aX]a_Y
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^V`]aaaaaaa_aaa`_a`_`aa_^_Xa_^]_Y¥__WUR
@HWI-EAS443:3:90:481:625#0/1
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+HWI-EAS443:3:90:481:625#0/1
`¥Z`abbb`a¥aaaab]^aaaaY]]baaaaa^V]`a^`Z
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CAATTCGACACTAATTGATGGCCATCCGAATTCTTTTGGT
+HWI-EAS443:3:90:543:1642#0/1
`]`][`[RU]a[`aaa[^[W¥Z`_YR¥X[X][_UY_ZZR^Y
@HWI-EAS443:3:90:569:1819#0/1
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+HWI-EAS443:3:90:569:1819#0/1
ab]b^`bbb_b_baaaba_]`b__aaaabaab` `aa^a_
@HWI-EAS443:3:90:636:1836#0/1
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+HWI-EAS443:3:90:636:1836#0/1
^¥`a_aZ[S]]_¥` `¥VQZ¥a][_W^aa¥[Q¥[GXa[IUB
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+HWI-EAS443:3:90:909:658#0/1
XXaaaW¥`Z_^SWYGWZS]R_^[a]VZ¥_OR`]OTa¥]ZV
@HWI-EAS443:3:91:1000:1042#0/1
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+HWI-EAS443:3:91:1000:1042#0/1
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@HWI-EAS443:3:91:1115:192#0/1
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+HWI-EAS443:3:91:1115:192#0/1
aaaaaaaa^_a`aa_aa[_`__`a`^_]``^]`^`[]`
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+HWI-EAS443:3:91:1308:562#0/1
`aa[a`aa`_`KP]aaaa`_`__[ZXZ]LMZ^¥Y`X`_¥^
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+HWI-EAS443:3:91:1405:162#0/1
``aa``__bba[_Y_a[]W`aa`a^aX^^^a¥¥_``_`
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aYb`Yaaba_M_aa`aX`a`_`^aaa_a`aaa`_____`^`
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`]]`aa`aaa^_``a¥^]a`_^Z``S]^Y_]U]_XX]]]
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@HWI-EAS443:3:92:109:1337#0/1
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ab_aa`]aa¥``aaa`aaY¥^[¥`[¥VR_^__`aa[___]
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_aaaba``b`bX]_Yaa__[^`Ua`MaRZ]bS`_^aWY_^
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+HWI-EAS443:3:92:1351:1178#0/1
`a`¥Waaaaa`__b__`a^_a`b¥PVaXa^^`a¥^`a]
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a`abaaaa]```_¥`_a]¥W¥_NW`Z`^Z__]]XZ]¥[Z
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ab]^_aaaaaaa`_]a`Y`dW__`a`^`_`_[a`¥^^__S
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abb[_^^¥XXV`YZ_[_¥`_[^M]¥a_ZXY¥WX`¥XS_W
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¥^¥_S`a`^a^Z`]V]¥yb_`V][_a_bZ¥ZY_b¥YS`aa
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aaa`aaa`aa`a_]b``_a`_a__aa^^`X`_^]a¥]__V
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Y_0]_`a`aaa`[a`W_aa]aa`^`]a_aa^`]]U]V]^a
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a`]bZaa^Z`___aaaa`a`^`a`^`^aaaaS```a_
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^babV`b[a_`a`_[babL]]a]Zb^R^#XZ_a`a]`P``
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aaaaV_abYYaba`R]^#_a_a]#]aY]^`^]_U`^_Z]^
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+HWI-EAS443:3:93:271:380#0/1
a`aa[^_aaaa`__a^`_]X_]R_]_[RYX_]X_]_Y]]U
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+HWI-EAS443:3:93:37:1583#0/1
^b`aZ_a[`]_``¥^]Y`__^R`_]_[_`^Z_^]]^]U^
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a_aaa`_aaa_```aaa^`_a`a^`]__]`__`^`]^`^_
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`_a_^Y^FQ]TZaS^^]_aa_aY¥_]__]`^T¥_W_Z`_]
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+HWI-EAS443:3:93:500:331#0/1
`_^baa`__VWS]aaXY]]_`a]^WTY¥_a^a_]_^SS` [
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`_babbaaabbbaaa`ZaXa_``ab]aa¥^`¥`aa`_Wb`
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+HWI-EAS443:3:93:624:334#0/1
a_a]`¥[]^`^`^`_W]]]]```VV^T_WV^^XV^^YU^
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+HWI-EAS443:3:94:1079:115#0/1
a`]V_ZW_KRWYb^XYZ`Y]b¥`_a_a0aS¥P[U¥Z]a^b
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+HWI-EAS443:3:94:1129:409#0/1
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aa`[``aaaZ__a`a_a]_a^_`a][`V`_^_a]^__^Y]
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abaaZ_babbbba[a_J]_a[^`^a__^S_0_]`Z_^]]VT]
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+HWI-EAS443:3:94:1248:1033#0/1
^X`baba]b_aaX_]a``_a_aW^aaZ^a__a^ZW__[^`
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+HWI-EAS443:3:94:1278:498#0/1
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@HWI-EAS443:3:94:1373:699#0/1
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+HWI-EAS443:3:94:1373:699#0/1
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+HWI-EAS443:3:94:1511:127#0/1
a^_a_aa^`][`_`¥__aa_]b0b^`_ab¥__¥a^]]_`^__
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+HWI-EAS443:3:94:263:591#0/1
a`_^¥`_^`^¥Z_^[Z^Z^Y¥^`_^]^Y^^]]]]Y]Y]Y]
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a^Y`^`_`aa¥`a[_`__aXPa^__¥[^YTUMV[WW_aVXO
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__ba_]baUUb^[]aa^b``¥]TNPTW_a^X`RY]_] [B
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+HWI-EAS443:3:97:541:1155#0/1
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a^aa```aa`][`_`_aZ_R`^`_Y]_Za^^S]]^^^X¥
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Z¥a^_abb¥SX]¥[Y_Y[`aa^`¥`a_[R_SV_]_]_W]
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+HWI-EAS443:3:98:1180:907#0/1
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+HWI-EAS443:3:99:267:709#0/1
__U[``RUHYUOSOR¥^`¥¥[_aa`[XJUUMZIKaTXX]B
@HWI-EAS443:3:99:292:305#0/1
CCAGCATTAAAGCATCAATGAACTGAGCAATCTTGCAAAAG
+HWI-EAS443:3:99:292:305#0/1
aaaaa`abaaaa`a_^Y`a_a^a_0a_a_____X`a^UWXa
@HWI-EAS443:3:99:391:1368#0/1
GAAGAACCCCGCACTCAGAATGAAGTGGATGATGGCAATG
+HWI-EAS443:3:99:391:1368#0/1
`a``aaaaa_bbaa``aaa^aaY_aV¥`Xaa^]`^_`W_]`_`
@HWI-EAS443:3:99:473:846#0/1
TGCCATCATCCACTTCATTCTGAGTGC GGGTTCTTCTCT
+HWI-EAS443:3:99:473:846#0/1
aa^`b``a]`^T^b`bab`_ba^b¥a`babb_a[aaZaaa
@HWI-EAS443:3:99:503:719#0/1
AAGAGAAGAACCCCGCACTCAGAATGAAGTGGATGATGGC
+HWI-EAS443:3:99:503:719#0/1
_¥¥__a`aZbab__b]a_]a^ba_bb¥T¥L`b_aa_aaY[
@HWI-EAS443:3:99:507:457#0/1
AGAAGACAAGAGATATGGCCCAGCATTAAAGCATCAATGAA
+HWI-EAS443:3:99:507:457#0/1
]_¥Yaba]VaY`_]`^aZDVa_VYZ``a[¥X[ZRY__MZ
@HWI-EAS443:3:99:612:816#0/1
CAAGAGAAGAACCCCGCACTCAGAATGAAGTGGATGATGG
+HWI-EAS443:3:99:612:816#0/1
^^a`abbab]`aaaabaaQaaab`aba`aaR]a_aa__a]
@HWI-EAS443:3:99:659:941#0/1
GAAGAACCCCGCACTCAGAATGAAGTGGATGATGGCAATG
+HWI-EAS443:3:99:659:941#0/1
``]aaaa^aa`¥^`__`b^U¥a`_aXa`_]_a^`_`Z^Y_^
@HWI-EAS443:3:99:716:729#0/1
AGATTGCTCAGTTCATTGATGCTTAATGCTGGGCCATATC
+HWI-EAS443:3:99:716:729#0/1
aa`[`Y]a_R_Z^^¥XH_]aba````][V^````^^¥```X

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+HWI-EAS443:3:99:764:917#0/1
`__aa`a_^aY^W]]^^`a^aaaaaU_aU[``^`^`[¥S¥
@HWI-EAS443:3:99:813:1479#0/1
AGATTGCTCAGTTCATTGATGCTTAATGCTGGGCCATATC
+HWI-EAS443:3:99:813:1479#0/1
a`aaaaaaaaabaababa`aababaaa^aa`aa^_aaa[
@HWI-EAS443:3:99:822:890#0/1
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+HWI-EAS443:3:99:822:890#0/1
aaaaaa_]XWXYa`^[^ZZa`Zb[aaaZS^_b_`_a^[`]
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+HWI-EAS443:3:99:857:506#0/1
`ST_PT¥Q`]TZQXL[TU]¥TXO¥DY[QNJOFV_VYPS^
@HWI-EAS443:3:9:1050:1361#0/1
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+HWI-EAS443:3:9:1050:1361#0/1
]QXaYW¥^I_]¥a`Z]aba_a[a_W__aR^^^`a^]R^a`
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GGCAAAGAAGACAAGAGATATGGCCCAGCATTAAAGCATCA
+HWI-EAS443:3:9:106:1287#0/1
aaba`a^`aaaab`^`aaa[``_`^VaXa`_]U____[Y
@HWI-EAS443:3:9:1070:195#0/1
ATATGGCCCAGCATTAAAGCATCAATGAACTGAGCAATCTT
+HWI-EAS443:3:9:1070:195#0/1
¥]aaaaa_V_a[aaaaa_X_a_^`a_]____^T[^_X¥^
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+HWI-EAS443:3:9:1082:1323#0/1
aabbab]ababaaaaaNa_bba`S_``_`^a`¥a_W^Y__
@HWI-EAS443:3:9:1093:759#0/1
AACAAATTCGACACTAATTGATGGCCATCCGAATTCTTTTG
+HWI-EAS443:3:9:1093:759#0/1
a``aba`a¥aa_a`a_``a_^^_`^a____a]]_`^_Z`__
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+HWI-EAS443:3:9:1171:248#0/1
aW¥FOZU^[P[UUVY¥¥Q^SW_YWWKDKUYYYWGYYVYZVB
@HWI-EAS443:3:9:1252:1045#0/1
GAAGAACCCCGCACTCAGAATGAAGTGGATGATGGCAATG
+HWI-EAS443:3:9:1252:1045#0/1
a`aa`a`Z^_aa_]`^_a^`a_ZW`Xa_`^¥[Z____Y]Y_Z
@HWI-EAS443:3:9:1435:62#0/1
TAAGCATCAATGAACTGAGCAATCTTGCAAAAGGAGAGAA
+HWI-EAS443:3:9:1435:62#0/1
aa_[aa]a^aa^`a_`[``_¥_`^T^^XX^¥X_]`_Z
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+HWI-EAS443:3:9:1435:879#0/1
a[aa`babbaaa__aa`_aa`a^_aa^^aY_a^`a^``_X
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+HWI-EAS443:3:9:1545:1192#0/1
aab_aa`b`bXaa_ba^`¥Uaaa¥aa`a_¥_a]GaYbaa_
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+HWI-EAS443:3:9:1562:517#0/1
``abab[`a_a`aaba`aaa`_a]_a__a¥`a_]`a`__
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+HWI-EAS443:3:9:1604:293#0/1
aa`^`PbaabR^V`_^aZaa]_^_G^¥Z][`ST[0^^Z_
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+HWI-EAS443:3:9:1677:936#0/1
aaaa`__`^^aaa__^a__a¥____^`^a^¥Y^^`^^^_`_
@HWI-EAS443:3:9:251:474#0/1
CTCTCCTTTTGCAAGATTGCTCAGTTCATTGATGCTTAAT
+HWI-EAS443:3:9:251:474#0/1
a`X_XW_P¥QXT`YaZ^Y`^`K][TNW]][`¥Y_Z^YZX^
@HWI-EAS443:3:9:257:279#0/1
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+HWI-EAS443:3:9:257:279#0/1
^bbaaa^Za^^¥W[Xaa`X[`a``Y^`_]UWV¥``X¥]^
@HWI-EAS443:3:9:294:702#0/1
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+HWI-EAS443:3:9:294:702#0/1
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@HWI-EAS443:3:9:414:1381#0/1
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+HWI-EAS443:3:9:414:1381#0/1
abababaabbabaaaaa`a_aaa`_]``aaa_aaaaa`]
@HWI-EAS443:3:9:452:382#0/1
GGGGTATGAAGAATTCACAATGGTTGGGAGAAGAGCAACA
+HWI-EAS443:3:9:452:382#0/1
aabb_a`b`aba^aa_aababb¥MVaa¥YY_Y`_aV_TTY
@HWI-EAS443:3:9:457:740#0/1
CCATCATCCACTTCATTCTGAGTGCGGGTTCTTCTCTTG
+HWI-EAS443:3:9:457:740#0/1
aaaaaa]aaaa`_`__`_a__Ya_a__`^_]__]_^`^]
@HWI-EAS443:3:9:604:387#0/1
AGACAAGAGATATGGCCCAGCATTAAAGCATCAATGAACTG
+HWI-EAS443:3:9:604:387#0/1
aba`a`babaaaaa`_aaa`_`_`_Y_^`^^`_^`^`^`
@HWI-EAS443:3:9:730:1114#0/1
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+HWI-EAS443:3:9:730:1114#0/1
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+HWI-EAS443:3:9:777:1177#0/1
_`b_Z_ab_]a]]V_[a`]aaaaaaaa`aaaaPaa``_a
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+HWI-EAS443:3:9:888:541#0/1
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@HWI-EAS443:3:9:974:668#0/1
AGATTGCTCAGTTCATTGATGCTTAATGCTGGGCCATATC
+HWI-EAS443:3:9:974:668#0/1
ab_aabb_aa]_aaaaaaaa_F[a_a^^_¥a^_[``_]`S
@HWI-EAS443:3:80:521:1474#0/1
ACCGCTAAGAGTCCCGTTTTCGTTTCATTACCAACTAC
+HWI-EAS443:3:80:521:1474#0/1
_Za````a[PY¥a``_Y¥````¥]`^a^a``_]_^``_
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AGGTAGAGTCCCGTTTTCGTTTCATTACAAACTACGTC
+HWI-EAS443:3:88:1485:1765#0/1
aZFT^babV^X^Z^V^a^b]a^GNaa`_Ga_GaBBBBBB
@HWI-EAS443:3:79:1345:968#0/1
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+HWI-EAS443:3:79:1345:968#0/1
`bababbbbbbbababaab__a_aabaa`aaaXaa[^aa
@HWI-EAS443:3:21:133:1136#0/1
GTCCCGTTTCGTTTCATTACCAACTACGTCTCCTTGCCC
+HWI-EAS443:3:21:133:1136#0/1
`R_a¥a¥`_a^`[^`_`Z^a]_YHZ`^^`^¥Y[]S¥VJ
@HWI-EAS443:3:74:811:336#0/1
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+HWI-EAS443:3:74:811:336#0/1
a_aa^aa``_bYbaaaaP`^`a`a`Va^_aaZ¥^Z]V¥S¥
@HWI-EAS443:3:20:1374:1433#0/1
CCCGTTTTTCGTTTCATTACCAACTACGTGTCCCTTGCGC
+HWI-EAS443:3:20:1374:1433#0/1
`X]aU_T]aa__¥U0``JOY__USS_`__XG]]GXW¥BBB
@HWI-EAS443:3:66:627:412#0/1
GGCGTAGTGTGGGAATGAAACGAAAACGGGACTCTAGCA
+HWI-EAS443:3:66:627:412#0/1
``a¥^_WT[¥a_ZG[_YY[_]Q^_[YZUZ_TVVRMT][]Y
@HWI-EAS443:3:28:377:182#0/1
CGGGCGTAGTGTGGTAATGAAACGAAAACGGGACTCTA
+HWI-EAS443:3:28:377:182#0/1
ab`abbb_^`Xb¥abb]`_¥¥_a```]`aaaV`^VWU[]]_
@HWI-EAS443:3:45:891:522#0/1
TGGGGCGTAGTGTGGTAATGAAACGAAAACGGGACTCTA
+HWI-EAS443:3:45:891:522#0/1
`ab^DUb¥Q_^_N^_[XWW_WVZ]U]W__[U¥[]YNUJT[
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+HWI-EAS443:3:10:1592:1360#0/1
a_aa^bX_P_VV^]BBBBBBBBBBBBBBBBBBBBBBBB
@HWI-EAS443:3:39:1161:1648#0/1
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+HWI-EAS443:3:39:1161:1648#0/1
DOWXXYYYYXXYYUYYYWVUVUXXZZZZYYRNUXXYXTKM
@HWI-EAS443:3:39:89:950#0/1
CGCTAGAGTCCCGTTTTTCGTTTCATTACCAAACTACGTC
+HWI-EAS443:3:39:89:950#0/1
aa^`[_R^_Z]`M¥YX][OYQ[OUXX^NVPDV^Z]`SOW
@HWI-EAS443:3:6:1645:620#0/1
ACCCGTTTTTCGTTTCATTACCAACTACGTCACCTTGCC
+HWI-EAS443:3:6:1645:620#0/1
[[U`ba`bWaabb[aa_b_]`^V`Xa__a_¥GQX^]]OG
@HWI-EAS443:3:15:948:1596#0/1
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+HWI-EAS443:3:15:948:1596#0/1
]bba`ba`b`Vb_`IbbbbbbY`[a_b[b_ba[ba_`¥bb
@HWI-EAS443:3:28:243:737#0/1
GGGGCGTAGTGTGGTAATGAAACGAAAACGGGACTCTAG
+HWI-EAS443:3:28:243:737#0/1
S¥aY^`bR[¥ab¥FX¥`ab]_VUaaba¥WU[]a_a`
@HWI-EAS443:3:34:501:1367#0/1
GACGTAGTGTGGTAATGAAACGAAAACGGGACTCTTGAG
+HWI-EAS443:3:34:501:1367#0/1
abab_ab^b_aaaQ]aa^¥aba`X`aa`[^^^_YX]Y
@HWI-EAS443:3:94:1423:847#0/1
GGGGCGTAGTGTGGTAATGAAACGAAAACGGGACTCTAG
+HWI-EAS443:3:94:1423:847#0/1
_Z^_Y`aaXa]aaaSS`^¥_[`Z__[]`U`_^ZG^X_X_
@HWI-EAS443:3:68:842:1320#0/1
AGCTAGAGTCCCGTTTTTCGTTTCATTACCAANACTACGTC
+HWI-EAS443:3:68:842:1320#0/1
O_b_SW[T_ab`]^WZ¥`ba__]_¥__^][D[^WJ_]X
@HWI-EAS443:3:11:276:691#0/1
CCCGTTTTTCGTTTCATTACCAACTACGTCACCTTGCCC
+HWI-EAS443:3:11:276:691#0/1
Y`_a[O__¥W^RV`]Ya]_]`S]Q]]a`I]F¥YMT¥PZ_
@HWI-EAS443:3:15:399:1570#0/1
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+HWI-EAS443:3:15:399:1570#0/1
]`bbZ]]ab^aYV^SRYaX^DP`a_H]aWZPZHO`UMQ
@HWI-EAS443:3:43:341:1613#0/1
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+HWI-EAS443:3:43:341:1613#0/1
`b_abbabbbbab`]babaaba`¥¥__R^Ya¥_^__a
@HWI-EAS443:3:49:1331:639#0/1
GTCGTTTTTAAACAATTCGACACTAATTCATGGCCATCCG
+HWI-EAS443:3:49:1331:639#0/1
a¥`_`]]_R[YZQY__Z_]O]WRSMVSOWUZVSWZVOX]

@HWI-EAS443:3:5:1681:692#0/1
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+HWI-EAS443:3:5:1681:692#0/1
a¥a^ba`b_aaa^]_b`aabPa`_^_Ga^__Z`Ua^^`^`_
@HWI-EAS443:3:5:207:286#0/1
GACGTAGTGTGGTAATGAAAAGAAAACGGGACTCTAGCA
+HWI-EAS443:3:5:207:286#0/1
XZ_b¥WYVS`bab]YK_YMT]]`I`¥PP^[aYMOGTKQ[B
@HWI-EAS443:3:94:1233:1043#0/1
GTCCCCGTTTTCGTTTCATTACCAACTACGTCGCCTTGC
+HWI-EAS443:3:94:1233:1043#0/1
_¥VX__aaba_baa[WZb]a_RaaP^^aa]a_¥FYG_[^S
@HWI-EAS443:3:97:1034:217#0/1
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+HWI-EAS443:3:97:1034:217#0/1
a_ababbbbbbbbbbbbb_P^b¥a`ab^ba`G]_aabYIY
@HWI-EAS443:3:9:714:1858#0/1
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+HWI-EAS443:3:9:714:1858#0/1
aaaY`¥Ha_]aa0^_XX[a¥S`_a_]__^R]U[T_]_¥^
@HWI-EAS443:3:34:1424:537#0/1
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+HWI-EAS443:3:34:1424:537#0/1
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+HWI-EAS443:3:39:1412:1344#0/1
abaaabbaaa`_]T^`a]L[^`___aQ[_a_X_^aHZSXX
@HWI-EAS443:3:97:873:1502#0/1
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+HWI-EAS443:3:97:873:1502#0/1
aa``aaa`a__aaaaTJ¥aa`_````^a^YPPW`_UT[___
@HWI-EAS443:3:19:758:1681#0/1
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+HWI-EAS443:3:19:758:1681#0/1
ab_aaaabaaababaaaa`¥DYaa``aa_aW[]a`_^`_
@HWI-EAS443:3:93:875:332#0/1
GTCGTTTNTAAACAATTCGACACTAATTGATGGCCATCCG
+HWI-EAS443:3:93:875:332#0/1
a__a`¥D¥aa_^`_a`_^`_a`_^`_^]`]¥Y¥]ZV`
@HWI-EAS443:3:100:686:278#0/1
AGGAAACAAGGTGTTTTTAAACAATTCGACACTAATTGA
+HWI-EAS443:3:100:686:278#0/1
aab^aaaaaba__b_abaaaa`a`a`_aa]a^`^`¥^_
@HWI-EAS443:3:72:1725:709#0/1
GGCGTAGTGTGGTAATGAAACGAAAACGGGACTCTAGCA
+HWI-EAS443:3:72:1725:709#0/1
abP_[ab^^Vaa`HR]]a¥_aZ^^^^Z^Y`[HVVUU_VV
@HWI-EAS443:3:72:199:1961#0/1
CTTAGAAACAAGGTGTTTTTAAACAATTCGACACTAATT

+HWI-EAS443:3:72:199:1961#0/1
abb`^a[Saa_]a¥b^^`aaa^aW`aaaab_aaaaaa^R
@HWI-EAS443:3:97:553:742#0/1
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+HWI-EAS443:3:97:553:742#0/1
``ab``a`b`bbb]`aaaaa_b_aaaYaaa^Z`_``[_a
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+HWI-EAS443:3:52:1027:1818#0/1
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+HWI-EAS443:3:81:883:238#0/1
ab¥bbbaaQYXa_UY`X^¥_]XU]X_SX¥`aUWWYX¥Y
@HWI-EAS443:3:100:997:1465#0/1
CGTTTTTAAACAATTCGACACTAATTGATGGCCATCCGAA
+HWI-EAS443:3:100:997:1465#0/1
abIaaa]]_H]a`aa[a^]___^`a_a__`¥V]ZUS^`B
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+HWI-EAS443:3:10:1418:471#0/1
a[b_^Z`[_HZ]¥`_`V_]_^¥K[]_]WMUY]G_^XNX
@HWI-EAS443:3:11:1300:83#0/1
GTCGTTTTTAAACAATTCGACACTAATTGATGGCCATCCG
+HWI-EAS443:3:11:1300:83#0/1
a`_b_aaaa`^ZZ_^^`_]^^]_^Z__`X¥XYWZ^ZYY^
@HWI-EAS443:3:12:626:1314#0/1
GTCGTTTTTAAACAATTCGACACTAATTGATGGCCATCCG
+HWI-EAS443:3:12:626:1314#0/1
aU]^R¥[_]a¥^aa_`[]WPYX^WV[VRWYS[_¥_TG_`
@HWI-EAS443:3:12:653:168#0/1
CGTAGTGTGGTAATGAAACGAAAACGGGACTCTAGCATA
+HWI-EAS443:3:12:653:168#0/1
aaY_aT_J^a_G¥aaaa[aaa_`aaaa_]¥_V_]^^^
@HWI-EAS443:3:13:704:101#0/1
GTCGTTTTTAAACAATTCGACACTAATTGATGGCCATCCG
+HWI-EAS443:3:13:704:101#0/1
a`_^¥`^VYV]_a___[]WYY¥_]^_[_^Y^]XZYYWVW
@HWI-EAS443:3:14:1681:620#0/1
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+HWI-EAS443:3:14:1681:620#0/1
a][^LW^aa)`V[YXXY_[WWZO^X[_^UVFNWSZJN^
@HWI-EAS443:3:15:1127:1109#0/1
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+HWI-EAS443:3:15:1127:1109#0/1
a^TaU]U`a[WVY[_`XVZY]X[V0[S¥_X_YYU^P]Q^
@HWI-EAS443:3:15:1222:424#0/1
GTCGTTTTTAAACAATTCGACACTAATTGATGGCCATCCG
+HWI-EAS443:3:15:1222:424#0/1
a_bb_aaaaa^^`aaaaa`_a_a]^`_`a_`[V]a__^a

@HWI-EAS443:3:15:943:1134#0/1
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+HWI-EAS443:3:15:943:1134#0/1
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@HWI-EAS443:3:18:1493:1074#0/1
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+HWI-EAS443:3:18:1493:1074#0/1
``[`Y_^Yb¥]¥`U[`a¥a`X_VY]_aaVVULOQ¥VT]N
@HWI-EAS443:3:18:1513:1773#0/1
TGCTAGAGTCCCGTTTTCGTTTCATTACCAACTACGTC
+HWI-EAS443:3:18:1513:1773#0/1
a_Saab`aXa¥ab_`aa_a_aa`_a_a`Y_`]`Xa`X]^U
@HWI-EAS443:3:18:906:1229#0/1
GTCGTTTTAAACAATTCGACACTAATTGATGGCCATCCG
+HWI-EAS443:3:18:906:1229#0/1
aTa^aabaa`a¥^`^^adWW_a_]SWa```]`_U^RY`WZ^
@HWI-EAS443:3:19:1157:142#0/1
GTCGTTTTAAACAATTCGACACTAATTGATGGCCATCCG
+HWI-EAS443:3:19:1157:142#0/1
aYaaT_aa_`_[]_¥^XOZT^_U]Y]XYVWZ]]XTSVUXX
@HWI-EAS443:3:19:1161:1688#0/1
GTCGTTTTAAACAATTCGACACTAATTGATGGCCATCCG
+HWI-EAS443:3:19:1161:1688#0/1
`_aaY__aa`b¥¥a`aa^a¥W`__`]]__^¥a]`_a^]Y_
@HWI-EAS443:3:19:1359:1329#0/1
GTCGTTTTAAACAATTCGACACTAATTGATGGCCATCCG
+HWI-EAS443:3:19:1359:1329#0/1
a[aaW_aaabbaaaaa^aa`baa`_aaa^_a[a_`_`]
@HWI-EAS443:3:19:25:209#0/1
GACGTAGTGTGGTAATGAAACGAAAACGGGACTCTAGCA
+HWI-EAS443:3:19:25:209#0/1
`¥`a[¥^OVZ_a^SYOY[W]^XXTZ`ZYXW¥YWWZOVUSX
@HWI-EAS443:3:19:625:191#0/1
GTCGTTTTAAACAATTCGACACTAATTGATGGCCATCCG
+HWI-EAS443:3:19:625:191#0/1
a¥^aY_]_^`^0[`¥^^¥`]U]VY¥^]V[[[[ZWU]]TTRT
@HWI-EAS443:3:1:618:524#0/1
GACGTAGTGTGGTAATGAAACGAAAACGGGACTCTAGCA
+HWI-EAS443:3:1:618:524#0/1
aa_aHaaPa¥_a`WY[aaY`Ha¥]``0`^YUGMSW]BBB
@HWI-EAS443:3:1:646:135#0/1
ACGTAGTGTGGTAATGAAACGAAAACGGGACTCTAGCAT
+HWI-EAS443:3:1:646:135#0/1
aa`W`_]aZaa`^)`^^__aZ[NX__S]Y]XXZWZBBBBB
@HWI-EAS443:3:20:986:755#0/1
GTCGTTTTAAACAATTCGACACTAATTGATGGCCATCCG
+HWI-EAS443:3:20:986:755#0/1
aZUZQUW]a^[OY]¥PZ]WJOPVZNQLOWWBBBBBBBBBB
@HWI-EAS443:3:21:859:1164#0/1
TGCTAGAGTCCCGTTTTCGTTTCATTACCAACTACGTC

+HWI-EAS443:3:21:859:1164#0/1
abbaaab`bbbb_aaaa]`aaaa`b`X`aZa^_a___a
@HWI-EAS443:3:22:1682:819#0/1
GACGTAGTGTGGTAATGAAACGAAAACGGGACTCTAGCA
+HWI-EAS443:3:22:1682:819#0/1
a`_a^a_baa`aZ^a]a¥^^Z]^_`VW^[[Z_W]ZWX¥
@HWI-EAS443:3:23:1184:406#0/1
GTCGTTTTTAAACAATTCGACACTAATTGATGGCCATCCG
+HWI-EAS443:3:23:1184:406#0/1
a]`b¥aaa]a`````]___`¥_a_a_____a¥[P`_¥V`
@HWI-EAS443:3:23:1384:1136#0/1
TGCTAGAGTCCCGTTTTTCGTTTCATTACCAACTACGTC
+HWI-EAS443:3:23:1384:1136#0/1
aaabbb`b_a__b`aab_a`aaS_aaa_0a_]aVaa^¥UR
@HWI-EAS443:3:25:650:1721#0/1
ACGTAGTGTGGTAATGAAACGAAAACGGGACTCTAGCAT
+HWI-EAS443:3:25:650:1721#0/1
aab_ab^b`bb[]aba`aaa¥`aaaaY[_[^_]a]___`a^
@HWI-EAS443:3:26:1554:242#0/1
CGTAGTGTGGTAATGAAACGAAAACGGGACTCTAGCATA
+HWI-EAS443:3:26:1554:242#0/1
abbbb`_`bbb__b]`¥a`0`^aaXZZbb[¥a[a`]Z``a
@HWI-EAS443:3:26:1668:747#0/1
GACGTAGTGTGGTAATGAAACGAAAACGGGACTCTAGCA
+HWI-EAS443:3:26:1668:747#0/1
a`^a^aWa_aa`]a_]``aU```a`Ra^_SWZ]^]^WR
@HWI-EAS443:3:26:549:1674#0/1
GTCGTTTTTAAACAATTCGACACTAATTGATGGCCATCCG
+HWI-EAS443:3:26:549:1674#0/1
aaWONa[b¥aabab[TWbUa`Yaa_a_Za```N_]a]]W_
@HWI-EAS443:3:27:1579:1549#0/1
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+HWI-EAS443:3:27:1579:1549#0/1
aY]a^abbbabY^¥_aa`a`_aZa`___aa_]_¥`]SWa
@HWI-EAS443:3:27:560:1040#0/1
TCGTTTTTAAACAATTCGACACTAATTGATGGCCATCCGA
+HWI-EAS443:3:27:560:1040#0/1
aaa^aaaaa^]]`_aa`a]`a`aa``_[]^]V¥`a[[[^_
@HWI-EAS443:3:29:18:85#0/1
CGTTTTTAAACAATTCGACACTAATTGATGGCCATCCGAA
+HWI-EAS443:3:29:18:85#0/1
ab^aaaaa¥aaaaaa`a_aa`aRW]_^VS^Q_YVY_]YOX
@HWI-EAS443:3:29:466:1977#0/1
GTCGTTTTTAAACAATTCGACACTAATTGATGGCCATCCG
+HWI-EAS443:3:29:466:1977#0/1
]T`]LNaa`_¥^`a¥W¥`Vab]ZS[ZRY`^VVZ`_T`¥B
@HWI-EAS443:3:2:1442:884#0/1
GTCGTTTTTAAACAATTCGACACTAATTGATGGCCATCCG
+HWI-EAS443:3:2:1442:884#0/1
`I]a[`¥^¥]`[Va__[WVYY_]_`aX¥]QJSMPUXWBBB

@HWI-EAS443:3:2:1487:310#0/1
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+HWI-EAS443:3:2:1487:310#0/1
a`¥`OX[[¥YZZZWT`ZUWUXUW`UTPUYUWMDORBBB
@HWI-EAS443:3:30:1559:235#0/1
GACGTAGTGTGGTAATGAAACGAAAACGGGACTCTAGCA
+HWI-EAS443:3:30:1559:235#0/1
¥W`_b^b_babbXKa^aba_¥_aU`b`Yaa^``YGUU¥NU
@HWI-EAS443:3:32:263:236#0/1
GACGTAGTGTGGTAATGAAACGAAAACGGGACTCTAGCA
+HWI-EAS443:3:32:263:236#0/1
a_`a_]aZa`aaaS__YY]¥`___`_[W^X]URU[YY]X^
@HWI-EAS443:3:32:605:1413#0/1
GTCGTTTTAAACAATTCGACACTAATTGATGGCCATCCG
+HWI-EAS443:3:32:605:1413#0/1
Uaa[Z]^W^Z^[`[a]`_a^^W_^]_^]^X^^_W^_W
@HWI-EAS443:3:33:953:1111#0/1
GACGTAGTGTGGTAATGAAACGAAAACGGGACTCTAGCA
+HWI-EAS443:3:33:953:1111#0/1
aa_]ab`a`bbaVaaaa_ZW`aaa¥[[¥_WH_] [U¥¥
@HWI-EAS443:3:34:1055:1022#0/1
GTCGTTTTAAACAATTCGACACTAATTGATGGCCATCCG
+HWI-EAS443:3:34:1055:1022#0/1
`_ab_`aaaa`]aa`a`a`_`a__a`_`^`^`_`^`[[^Z[[[
@HWI-EAS443:3:34:367:1247#0/1
GTCGTTTTAAACAATTCGACACTAATTGATGGCCATCCG
+HWI-EAS443:3:34:367:1247#0/1
a`aaXaaaab`[_`a`a`_`aaaa[_U_]`^`_YYXU`V]RN
@HWI-EAS443:3:34:775:1192#0/1
ATGCTAGAGTCCCCTTTTCGTTTCATTACCAACTACTAGT
+HWI-EAS443:3:34:775:1192#0/1
Q[^^^aaa`aa^aWRZN]^]UW^V]`_`^X¥SV]T_[XBB
@HWI-EAS443:3:35:640:860#0/1
GTCGTTTTAAACAATTCGACACTAATTGATGGCCATCCG
+HWI-EAS443:3:35:640:860#0/1
a_`^`_aaabaa^]`a`^UK]`aa[Y^WZ¥UXX_Z[[_W_
@HWI-EAS443:3:36:1483:703#0/1
GTCGTTTTAAACAATTCGACACTAATTGATGGCCATCCG
+HWI-EAS443:3:36:1483:703#0/1
a_ab_aaa__`_____]`_`_W_]_^]Z^][VWV¥¥UZSX
@HWI-EAS443:3:37:165:275#0/1
GTCGTTTTAAACAATTCGACACTAATTGATGGCCATCCG
+HWI-EAS443:3:37:165:275#0/1
a^``[_`aa^V^aaaa`_a__aa`_`Z¥^^]X]T]`^`¥^
@HWI-EAS443:3:38:162:1280#0/1
GTCGTTTTAAACAATTCGACACTAATTGATGGCCATCCG
+HWI-EAS443:3:38:162:1280#0/1
a`b`^a`aa`abaa`_`aa`aa`_`aa`_`_X^Ya_[-^`_
@HWI-EAS443:3:38:169:1440#0/1
GACGTAGTGTGGTAATGAAACGAAAACGGGACTCTAGCA

+HWI-EAS443:3:38:169:1440#0/1
abbaW^a`V_`^`^Pab`Yba_]¥b]ba`^`_N¥`aVYZ_a
@HWI-EAS443:3:38:322:1762#0/1
ATGCTAGAGTCCCCTTTTCGTTTCATTACCAACACTACGT
+HWI-EAS443:3:38:322:1762#0/1
`¥[a][a`b]] [R¥_`^`X^^`_][YVV]R^YU_YQQ
@HWI-EAS443:3:39:329:1649#0/1
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+HWI-EAS443:3:39:329:1649#0/1
aabbaaabab`_abaaab_a`baaaa`_`_XU`_a`X_]`
@HWI-EAS443:3:39:914:1262#0/1
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+HWI-EAS443:3:39:914:1262#0/1
a)``]aaba`aaZa`aY¥^aWa^`_ [¥_aaXXX^aa_`^`
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GTCGTTTTTAAACAATTCGACACTAATTGATGGCCATCCG
+HWI-EAS443:3:42:1668:200#0/1
aXabY]bbaaaa^`_a`Z^¥^`_a`aaaY_¥[¥]`U[]^`
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+HWI-EAS443:3:43:1192:1885#0/1
]bV[]Yab` []a¥QRbWT¥ZTbVZ]]a^`aa`aYG¥RW_`
@HWI-EAS443:3:43:1389:523#0/1
GTCGTTTTTAAACAATTCGACACTAATTGATGGCCATCCG
+HWI-EAS443:3:43:1389:523#0/1
`]Za[_babaa]```ba`]TU_X_Y_```Z``VXQ¥¥Y0]
@HWI-EAS443:3:43:508:802#0/1
GTCGTTTTTAAACAATTCGACACTAATTGATGGCCATCCG
+HWI-EAS443:3:43:508:802#0/1
`XS^T]PPU```]WZTTPX_] [VRNWX]BBBBBBBBBBBBB
@HWI-EAS443:3:43:689:639#0/1
GTCGTTTTTAAACAATTCGACACTAATTGATGGCCATCCG
+HWI-EAS443:3:43:689:639#0/1
a``]_`_`a¥]Z`Y`]¥[[SXa^ [¥]]VZLL^U^]WWUY]
@HWI-EAS443:3:44:1122:98#0/1
GTCGTTTTTAAACAATTCGACACTAATTGATGGCCATCCG
+HWI-EAS443:3:44:1122:98#0/1
a^ab_aa_`_`_`a[`a_Z_^`_]¥X_Z_^XZ0]]ZXZ
@HWI-EAS443:3:44:1452:165#0/1
GTCGTTTTTAAACAATTCGACACTAATTGATGGCCATCCG
+HWI-EAS443:3:44:1452:165#0/1
ZS`bY^a_¥Ua``abaV0]^ [^]`aaVZ_YW_]`_]__SOY
@HWI-EAS443:3:45:1398:901#0/1
GTCGTTTTTAAACAATTCGACACTAATTGATGGCCATCCG
+HWI-EAS443:3:45:1398:901#0/1
`ab]`baaaa`W`aa_a`]a`]a`]_`^^_YXU[^W]Z
@HWI-EAS443:3:45:190:839#0/1
GTCGTTTTTAAACAATTCGACACTAATTGATGGCCATCCG
+HWI-EAS443:3:45:190:839#0/1
a``_Za^aa¥^Y`¥V¥YUOP^]V¥UOSQJYPQS[Y¥OLVQ

@HWI-EAS443:3:46:1525:2038#0/1
TAGTGTGGTAATGAAACGAAAACGGGACTCTAGCATACT
+HWI-EAS443:3:46:1525:2038#0/1
^ZbT^`aaYHP_ZWZVa_^]Z¥]Q]ZUTPV]_TZKV¥VNY
@HWI-EAS443:3:46:380:1381#0/1
GTCGTTTTAAACAATTCGACACTAATTGATGGCCATCCG
+HWI-EAS443:3:46:380:1381#0/1
a^`a[_aaaa_aa_`aaa^a`a^a_]`_`a_aU`^`^Z^_
@HWI-EAS443:3:46:589:1441#0/1
GTCGTTTTAAACAATTCGACACTAATTGATGGCCATCCG
+HWI-EAS443:3:46:589:1441#0/1
a^`]N_`aaa`__`aa_]__^a^a___`X___]V]Y_]V][
@HWI-EAS443:3:47:1093:844#0/1
GTCGTTTTAAACAATTCGACACTAATTGATGGCCATCCG
+HWI-EAS443:3:47:1093:844#0/1
a¥ab`baabaa`Z`aaaaa[_`_`[_aa__`_^_^_^WX[
@HWI-EAS443:3:47:1440:1126#0/1
GTCGTTTTAAACAATTCGACACTAATTGATGGCCATCCG
+HWI-EAS443:3:47:1440:1126#0/1
aabb`bbbbaa`_aabaaa````a`_a`_a_a`_]``Y_`
@HWI-EAS443:3:47:1783:217#0/1
GTCGTTTTAAACAATTCGACACTAATTGATGGCCATCCG
+HWI-EAS443:3:47:1783:217#0/1
`^`Y^bV^aaa_S^Y^__S]Z_S`^^`]Z^SOVOWXSZU
@HWI-EAS443:3:47:220:209#0/1
GTCGTTTTAAACAATTCGACACTAATTGATGGCCATCCG
+HWI-EAS443:3:47:220:209#0/1
`LaaZX`b`Q`_[a]_Uba0___]__XX`^W`Y`_^`^U^
@HWI-EAS443:3:47:703:1987#0/1
GTCGTTTTAAACAATTCGACACTAATTGATGGCCATCCG
+HWI-EAS443:3:47:703:1987#0/1
a_aa^a`WOWaXVR`a[aaXYa]W__a¥ZZY[YUP`YOR^
@HWI-EAS443:3:48:1347:562#0/1
GTCGTTTTAAACAATTCGACACTAATTGATGGCCATCCG
+HWI-EAS443:3:48:1347:562#0/1
``ab`abbaba`aaaaaaaa_aaaaa```a`a[[_`]]`
@HWI-EAS443:3:49:1488:333#0/1
GTCGTTTTAAACAATTCGACACTAATTGATGGCCATCCG
+HWI-EAS443:3:49:1488:333#0/1
aaab]aabaaaa``_aa_aa]aZa````_^_a¥Z]^`^TS¥
@HWI-EAS443:3:49:400:1933#0/1
GTCGTTTTAAACAATTCGACACTAATTGATGGCCATCCG
+HWI-EAS443:3:49:400:1933#0/1
V^¥b``¥b_a_a]baaabaa_b_aaaY_`a[Wa_0a^_[a
@HWI-EAS443:3:49:598:132#0/1
GTCGTTTTAAACAATTCGACACTAATTGATGGCCATCCG
+HWI-EAS443:3:49:598:132#0/1
abab`babbbbaabbbb`baaaaaaaaaaaaaa__aa_]a
@HWI-EAS443:3:49:653:795#0/1
GTCGTTTTAAACAATTCGACACTAATTGATGGCCATCCG

+HWI-EAS443:3:49:653:795#0/1
^a^baabbbbaaaaa`ab`aa^a_aaaa`a`_a_[[`a__a
@HWI-EAS443:3:4:209:247#0/1
ACGTAGTGTGGTAATGAAACGAAACGGGACTCTAGCAT
+HWI-EAS443:3:4:209:247#0/1
`aaZaa¥b^^aaY¥^¥`_a_^]_^`__^]]¥[_W_]Y^^
@HWI-EAS443:3:51:401:1291#0/1
ACGTAGTGTGGTAATGAAACGAAACGGGACTCTAGCAT
+HWI-EAS443:3:51:401:1291#0/1
aab`ab`baa^aQ___SZa`U```aaZa`__[_]___^`_
@HWI-EAS443:3:51:419:142#0/1
TGCTAGAGTCCCGTTTTTCGTTTCATTACCAACTACGTC
+HWI-EAS443:3:51:419:142#0/1
¥[a¥[URSGN[¥UZX_[¥]^WW]TWYSWQVFROYSVZTV
@HWI-EAS443:3:51:478:53#0/1
GACGTAGTGTGGTAATGAAACGAAACGGGACTCTAGCA
+HWI-EAS443:3:51:478:53#0/1
a_aa__b[a_a`^]`^`b_a^H][_`_Sa`TQXVV^_U^
@HWI-EAS443:3:53:872:206#0/1
GACGTAGTGTGGTAATGAAACGAAACGGGACTCTAGCA
+HWI-EAS443:3:53:872:206#0/1
¥abab`a]ZaN¥`b__`]^X`Z`Ra_aUY`[XY]SY
@HWI-EAS443:3:54:1244:1888#0/1
CGTTTTTAAACAATTCGACACTAATTGATGGCCATCCGAA
+HWI-EAS443:3:54:1244:1888#0/1
ab_abbabbbbabbbababb_aaaa_b_babb`
@HWI-EAS443:3:55:1379:1559#0/1
TCGTTTTTAAACAATTCGACACTAATTGATGGCCATCCGA
+HWI-EAS443:3:55:1379:1559#0/1
a^b^aaaa_aa¥a`_____^`_`__^`_`__^^¥X__WX^`
@HWI-EAS443:3:55:1617:661#0/1
GTCGTTTTTAAACAATTCGACACTAATTGATGGCCATCCG
+HWI-EAS443:3:55:1617:661#0/1
`a`Tbababba`aab_a`_¥b_aa```]_a_]_¥a_]Ya
@HWI-EAS443:3:55:592:1143#0/1
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+HWI-EAS443:3:55:592:1143#0/1
ab`b]a`a`_Y`^SVaa¥`^`_]P^]_^Z[WZ[^UZ]_
@HWI-EAS443:3:56:1386:929#0/1
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+HWI-EAS443:3:56:1386:929#0/1
a_]b_aaaa_a^`_a_]__Z`Y]_^`¥S^__^^X^]UVY
@HWI-EAS443:3:56:823:1999#0/1
GTCGTTTTTAAACAATTCGACACTAATTGATGGCCATCCG
+HWI-EAS443:3:56:823:1999#0/1
a]bb_a^ba`^YX¥_a^ZY`aXQU]aa^]a¥NWQ_]RTT
@HWI-EAS443:3:57:1654:1741#0/1
TCGTTTTTAAACAATTCGACACTAATTGATGGCCATCCGA
+HWI-EAS443:3:57:1654:1741#0/1
a]b^^aaaa_]_^_a_^_V`V_[`]^_Y_]WYW`Y[U^^

@HWI-EAS443:3:57:847:438#0/1
GTCGTTTTAAACAATTCGACACTAATTGATGGCCATCCG
+HWI-EAS443:3:57:847:438#0/1
aP^ba`aba`a]_a_`__^[_^]a_^a``___^[_`_`^`
@HWI-EAS443:3:58:1180:479#0/1
GTCGTTTTAAACAATTCGACACTAATTGATGGCCATCCG
+HWI-EAS443:3:58:1180:479#0/1
a[ab_abaaa`_^_a`a`]a]`_____`___V[U^_^¥a
@HWI-EAS443:3:59:415:1455#0/1
GTCGTTTTAAACAATTCGACACTAATTGATGGCCATCCG
+HWI-EAS443:3:59:415:1455#0/1
a^`aH` `[bX_a]_`[aaZO^a^` `____]YaU[]WWH¥R
@HWI-EAS443:3:59:477:1450#0/1
CGTTTTAAACAATTCGACACTAATTGATGGCCATCCGAA
+HWI-EAS443:3:59:477:1450#0/1
ab`abbaabY_abbabaabbabaaab`b`a[___a_XV` `Z
@HWI-EAS443:3:5:447:782#0/1
GTCGTTTTAAACAATTCGACACTAATTGATGGCCATCCG
+HWI-EAS443:3:5:447:782#0/1
`V` ` ` _aaaa`R[a_a_[a` ____` _____` ^_a^YZ^]_^a
@HWI-EAS443:3:5:766:360#0/1
GTCGTTTTAAACAATTCGACACTAATTGATGGCCATCCG
+HWI-EAS443:3:5:766:360#0/1
` `bbabbbbbaaa[babba` `^a`aaaa¥aaa[[[_`a]]`
@HWI-EAS443:3:60:1181:686#0/1
CGTTTTAAACAATTCGACACTAATTGATGGCCATCCGAA
+HWI-EAS443:3:60:1181:686#0/1
abaabbbbbbbbbb_Zaababaababaabaa`aa__aaa
@HWI-EAS443:3:60:1406:177#0/1
GACGTAGTGTGGTAATGAAACGAAAACGGGACTCTAGCA
+HWI-EAS443:3:60:1406:177#0/1
a`W`LDV`a[a`]NRPZNLUUQWNPVOOP¥¥LVPTZGNLQ
@HWI-EAS443:3:60:1675:428#0/1
GTCGTTTTAAACAATTCGACACTAATTGATGGCCATCCG
+HWI-EAS443:3:60:1675:428#0/1
a`_a]aaaa` `_^__` `[Y¥^`Y__^____]¥VYW_]_]_`
@HWI-EAS443:3:60:390:1240#0/1
GTCGTTTTAAACAATTCGACACTAATTGATGGCCATCCG
+HWI-EAS443:3:60:390:1240#0/1
aWaxy]P_a]]QWY[XYUY[WP_YZU_OOVRUWVVYZXTP
@HWI-EAS443:3:60:420:939#0/1
GTCGTTTTAAACAATTCGACACTAATTGATGGCCATCCG
+HWI-EAS443:3:60:420:939#0/1
aaaa`abaaaa` `aa`aaa`a`a`_`____¥][^Z`][Y_`
@HWI-EAS443:3:61:1315:971#0/1
ACGTAGTGTGGTAATGAAACGAAAACGGGACTCTAGCAT
+HWI-EAS443:3:61:1315:971#0/1
a`^^`b_aabbbZ`aaabbaa_abaaa` `^¥^X^_V]]]
@HWI-EAS443:3:61:1413:189#0/1
GTCGTTTTAAACAATTCGACACTAATTGATGGCCATCCG

+HWI-EAS443:3:61:1413:189#0/1
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@HWI-EAS443:3:61:670:346#0/1
GTCGTTTTTAAACAATTCGACACTAATTGATGGCCATCCG
+HWI-EAS443:3:61:670:346#0/1
aZ^^¥`a`_] ^V]¥]^¥^^^`^^VIX[XZ[TTRVZXXQT
@HWI-EAS443:3:62:195:1292#0/1
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+HWI-EAS443:3:62:195:1292#0/1
abZ¥_ba`P^ba]Z^baa_]X`aZ¥¥FW_aZWX__`_a]^
@HWI-EAS443:3:62:366:1022#0/1
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+HWI-EAS443:3:62:366:1022#0/1
ZS_Ub^bb`a¥`b_X__a`_]_aa`aaa][]TX``_[W¥
@HWI-EAS443:3:62:764:1223#0/1
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+HWI-EAS443:3:62:764:1223#0/1
a_a__abba`aa`aaa`a`aaaaaaaa`__`^^^_`aa_
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ACGTAGTGTGGTAATGAAACGAAAACGGGACTCTAGCAT
+HWI-EAS443:3:64:141:677#0/1
aab^]b^aaabaU]]`aaaaY]_^`a``____`^WDU____^
@HWI-EAS443:3:64:351:1757#0/1
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+HWI-EAS443:3:64:351:1757#0/1
aaaa¥aaaaba^`baaab_`abaaaa_^]`_^]`_X]`[
@HWI-EAS443:3:64:596:968#0/1
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+HWI-EAS443:3:64:596:968#0/1
a¥a[`WbaaabaaQa]a][abR¥I`aaa`_`aaa`]Q_YRU
@HWI-EAS443:3:65:1230:91#0/1
GTCGTTTTTAAACAATTCGACACTAATTGATGGCCATCCG
+HWI-EAS443:3:65:1230:91#0/1
aJXb`Sa_a`¥a¥[]__^^_Z`_]][^^]0^VWZ]WWX^
@HWI-EAS443:3:65:482:115#0/1
GACGTAGTGTGGTAATGAAACGAAAACGGGACTCTAGCA
+HWI-EAS443:3:65:482:115#0/1
a`ab¥`b_b^aab¥¥a``_aaU^```_M``_[S[T¥[QZ]
@HWI-EAS443:3:66:1292:1178#0/1
ACGTAGTGTGGTAATGAAACGAAAACGGGACTCTAGCAT
+HWI-EAS443:3:66:1292:1178#0/1
`_¥_abQ^^ba`PZT]S^^^R_]aa]WVW`]SW_[]X]__
@HWI-EAS443:3:68:1089:1435#0/1
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+HWI-EAS443:3:68:1089:1435#0/1
aabb_]`[b[aa`S[aaZ^aaR[]aa^WZ[^PYRZYS]__
@HWI-EAS443:3:68:988:983#0/1
GACGTAGTGTGGTAATGAAACGAAAACGGGACTCTAGCA
+HWI-EAS443:3:68:988:983#0/1
aaaaX`_P``aba¥]`ZS[_a¥]Y`a`]]_VWX]]Y^]Y_

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+HWI-EAS443:3:69:1375:258#0/1
]X^`Z`Ta`[Y¥¥_Xa`Na^W`]ZR^]¥ZZ^^0aX]WNW]
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+HWI-EAS443:3:6:490:514#0/1
a_`b_aaaaaaa_aaa```aaa_`_`_]a^_^_```]]_
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+HWI-EAS443:3:70:485:908#0/1
^X_`^`bbbb[¥`abaaa_a_0[aaaa`^`a^XEY``aa_a
@HWI-EAS443:3:71:1053:1272#0/1
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+HWI-EAS443:3:71:1053:1272#0/1
a¥abUXab¥_aZT[]^a`aa[a^aa^_[[]`_Xa_`_¥[_
@HWI-EAS443:3:73:197:367#0/1
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+HWI-EAS443:3:73:197:367#0/1
aab[ab]aaaba¥a`¥_a_``[[]`PX[_XSY^V][F]
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+HWI-EAS443:3:74:1454:20#0/1
`a``bbbabaa_`aQ_baabaaaY_aaaW```Xa[``X¥Y
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+HWI-EAS443:3:74:279:738#0/1
aa_aaaabaaaaa``aaaaa``aa`____^__`____``_
@HWI-EAS443:3:74:82:1621#0/1
GTCGTTTTAAACAATTCGACACTAATTGATGGCCATCCG
+HWI-EAS443:3:74:82:1621#0/1
a`ab__[]`a_aa[]¥_a_aab```aa`_`a^_^aaa]_a¥
@HWI-EAS443:3:74:906:1611#0/1
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+HWI-EAS443:3:74:906:1611#0/1
aaab[abaabba`_^aaa_¥_ba```____aa_`]a_a^_[Z
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+HWI-EAS443:3:75:1528:431#0/1
aXa_M``aa_`_Xa^`]]`_¥aR_^X_R[_[^]¥RS^YYW
@HWI-EAS443:3:76:1131:66#0/1
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+HWI-EAS443:3:76:1131:66#0/1
a_]`N¥a``Y_XT]Z`_Z^XR^Y^ZZ_]`^X]]XVLV]RXX
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+HWI-EAS443:3:76:131:1244#0/1
ababOW[¥_ZI]Z`^aa_¥b_RU]^Y^]BBBBBBBBBBBB
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+HWI-EAS443:3:76:1404:1358#0/1
^b^^Sb_SaU_X¥VV_a`]Z_``_SZ]bWQ¥]TSOZ¥Y[W
@HWI-EAS443:3:76:312:360#0/1
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+HWI-EAS443:3:76:312:360#0/1
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@HWI-EAS443:3:77:367:976#0/1
GTCGTTTTTAAACAATTCGACACTAATTGATGGCCATCCG
+HWI-EAS443:3:77:367:976#0/1
]¥X¥a`]_Y¥X^_]_]X_^a`]¥]X[^]Y[WURWZ_
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^`aa]a_babbbaa_aaaaaaaaaaaa_]_ZX¥aa[`]_
@HWI-EAS443:3:77:645:236#0/1
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+HWI-EAS443:3:77:645:236#0/1
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+HWI-EAS443:3:77:960:559#0/1
`a_a`abaaa^^aW`_aaaYb`a_`_`Y`^¥]_]`Z^_^
@HWI-EAS443:3:78:1064:403#0/1
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+HWI-EAS443:3:78:1064:403#0/1
^Va^`a^_ZU_a]`a_Y_]N¥N]^_¥TP¥V¥PYVZ[XX^
@HWI-EAS443:3:78:549:334#0/1
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+HWI-EAS443:3:78:549:334#0/1
ab`b¥D[¥TS`aa`Z]b_`a[`]aa_aY_¥^_aN[FXOVZ^
@HWI-EAS443:3:80:1492:86#0/1
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+HWI-EAS443:3:80:1492:86#0/1
_LZa¥aaaa`__X_^a`Z`]Y_X_][]^aX^^[VUU]QQV
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+HWI-EAS443:3:80:326:719#0/1
¥_^Ua`bb``_VWaXXJY`¥_U^_¥aZ¥aaUQ[U_`a_a¥
@HWI-EAS443:3:80:429:1062#0/1
GTCGTTTTTAAACAATTCGACACTAATTGATGGCCATCCG
+HWI-EAS443:3:80:429:1062#0/1
`^a_V_aaa^`] [Z`Z]`U_a_ZVUZ^X¥^`Z]a¥OW^^
@HWI-EAS443:3:80:64:468#0/1
GTAGTGTGGTAATGAAACGAAAACGGGACTCTAGCATA
+HWI-EAS443:3:80:64:468#0/1
aNQ_N_Vaa^MW`ZST[^U] [Z_`¥Y¥ORNUXSXZTX[[V
@HWI-EAS443:3:81:173:1494#0/1
GTCGTTTTTAAACAATTCGACACTAATTGATGGCCATCCG
+HWI-EAS443:3:81:173:1494#0/1
aR]^VaXHVaaZ]_]T¥V¥Ya]Y_WUSM¥a^NQaa_U^YF

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+HWI-EAS443:3:82:554:1019#0/1
a^FYa^Q^aaa`_YMaZ`^^`XOT]_aTVX¥]a`^][XNT
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+HWI-EAS443:3:82:666:123#0/1
V]aU_ba__a__OUTM[Raa^a][a_T`aa]Ia[ZVZ¥^_
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+HWI-EAS443:3:85:1426:1497#0/1
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+HWI-EAS443:3:86:277:1332#0/1
a]aZV¥```a__aaa]`_Z_¥aa_aa`_`]^Z^^Z___
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+HWI-EAS443:3:87:1211:582#0/1
aab^b_`a[Z`a^`aXa__a__^ZV^_]^^¥¥_a_Va
@HWI-EAS443:3:87:444:317#0/1
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+HWI-EAS443:3:87:444:317#0/1
`G¥T[a][OSU^_a¥PMOTTKTQ¥QW]XWHZRMXSYTRUX
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+HWI-EAS443:3:88:865:874#0/1
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@HWI-EAS443:3:89:1421:181#0/1
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+HWI-EAS443:3:89:1421:181#0/1
`¥^a]`_aa]_^Z`^^_¥ZW`Z_^]X_^]UZX^]XZW
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GGTCGTTTTTAAACAATTCGACACTAATTGATGGCCATCC
+HWI-EAS443:3:89:150:695#0/1
a`Z`Ua]¥]a^`_P_^a[``a^a`¥[_`_]__a]^
@HWI-EAS443:3:89:84:383#0/1
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+HWI-EAS443:3:89:84:383#0/1
a`abZ]aXa[a]YQU^____a_^Va____^ZX]Z]ZVVZZ
@HWI-EAS443:3:8:497:245#0/1
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+HWI-EAS443:3:8:497:245#0/1
aU_aY_]__Y_]W``_]_]¥¥[_YWY^[W[XZXX[[]^
@HWI-EAS443:3:8:497:691#0/1
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+HWI-EAS443:3:8:497:691#0/1
aQU^KVaa``¥YX]U_]_^_`^`]]¥X]¥^]WPU¥YQS[
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+HWI-EAS443:3:8:592:104#0/1
ab`aaaba`¥aaaa]bb_aaaa`aa`_`a__^a_U^a`^
@HWI-EAS443:3:90:1771:1415#0/1
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+HWI-EAS443:3:90:1771:1415#0/1
¥GS[_¥a]¥^_UQ[W^aWq]TLXTXZXW[ZLWRPGPUGW_
@HWI-EAS443:3:90:561:1572#0/1
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+HWI-EAS443:3:90:561:1572#0/1
_`X¥Zab_aY`ZXHWb` `[`b¥¥W^`_`Y¥]N¥UY[[YY]
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+HWI-EAS443:3:91:104:639#0/1
aa]abbbbaX`b`babbaaaaa`aaa`_a`a`aa`_`_`
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+HWI-EAS443:3:92:54:761#0/1
a`aa_aaaa`[Xa`a`_`]^a`_`a__`^`^XYT^WU[] [¥
@HWI-EAS443:3:92:647:1705#0/1
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+HWI-EAS443:3:92:647:1705#0/1
]HX^T^`¥Qab^^YOWQ^`_]Z]Z__YH¥^]¥]_aa_^V`
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+HWI-EAS443:3:93:1744:205#0/1
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@HWI-EAS443:3:93:498:1135#0/1
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+HWI-EAS443:3:93:498:1135#0/1
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+HWI-EAS443:3:94:1156:586#0/1
a^ab__b]aaabaUXaa¥^aaU`__`_]___¥SYG__^]_
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+HWI-EAS443:3:94:1748:208#0/1
abab_bb`baaaSaaaZa^a`bXa_a`¥]^_ZP]Y_YOQ^
@HWI-EAS443:3:96:1011:600#0/1
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+HWI-EAS443:3:96:1011:600#0/1
Zbabbbbbbb`aaaa^ab_bbbb_F_aaaaaa`a`^aa
@HWI-EAS443:3:96:1016:1539#0/1
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+HWI-EAS443:3:96:1016:1539#0/1
a]W``aaaaba^aaaba_a`_a_aa_a__`_`a_a`_aM[a
@HWI-EAS443:3:96:846:1667#0/1
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+HWI-EAS443:3:96:846:1667#0/1
a_aaWbb`]baaab`abaaa`R^^`_`aa`a^T`_`_S`Ya_

@HWI-EAS443:3:96:89:1026#0/1
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+HWI-EAS443:3:96:89:1026#0/1
aaa]`aY_G`a`Z`a^^__a_]^__Z^`ZG^W#W_ZX^
@HWI-EAS443:3:78:1678:1757#0/1
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+HWI-EAS443:3:78:1678:1757#0/1
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@HWI-EAS443:3:71:1315:1371#0/1
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+HWI-EAS443:3:71:1315:1371#0/1
aaaba_abaaaa^[a^`aa__Z]__aaaa`aa``a``]_
@HWI-EAS443:3:42:244:1017#0/1
CANATATATTCAATATGGAGAGAATAAAGAACCGAGAGA
+HWI-EAS443:3:42:244:1017#0/1
Z^DZ^`a``bba``bb``abba^`b#`bbbbb`bbaUab
@HWI-EAS443:3:97:1702:1537#0/1
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+HWI-EAS443:3:97:1702:1537#0/1
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@HWI-EAS443:3:31:1215:1409#0/1
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+HWI-EAS443:3:31:1215:1409#0/1
^_WOF#[] [X#W#QU]Z_T]aa]SQX_]__U#^]U_`]
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AAGCTAATGTGCTAATTGGGCAAGGGACGTCGTGTTGGG
+HWI-EAS443:3:12:451:368#0/1
#X_H[#`#ZU[bX_a]ab`^aa_P]^b^Y#VH^Xa_[H^B
@HWI-EAS443:3:39:1277:1831#0/1
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+HWI-EAS443:3:39:1277:1831#0/1
Tab#aba`aaJZ#XbbLVWta_ba`a`aY`aFF[aXaUaX
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+HWI-EAS443:3:12:882:1198#0/1
V[NUPY#`Xa[VXRUYRL]^_^R[HZ`W#``Ta]WaX#`
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+HWI-EAS443:3:50:1644:1734#0/1
`b`_O^KY_[_U_OWQb``R`aaW[a_`aYaa[``_ZGP`_
@HWI-EAS443:3:72:904:1175#0/1
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+HWI-EAS443:3:72:904:1175#0/1
^OU^ZYVY[T[XWX_^QTF^NYS^PXY#WZNTXRSJDWX
@HWI-EAS443:3:100:1660:190#0/1
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+HWI-EAS443:3:100:1660:190#0/1
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+HWI-EAS443:3:12:432:321#0/1
a_`^¥aabaa`a`_a^YV]]`__VXSWUQ]P^VU[WWW
@HWI-EAS443:3:13:1370:1576#0/1
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+HWI-EAS443:3:13:1370:1576#0/1
abaabbb`bbaa`babb`a`a_`aab]aa``]aaaa`a
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ATTC AATATGTAGAGAATAAAAGAACTGAGAGATCTAATG
+HWI-EAS443:3:14:1168:1141#0/1
``^``^bbaaa```bb`a¥aa`]Xbaa¥`¥``aaa`_a
@HWI-EAS443:3:18:226:931#0/1
ATTC AATATGGAGCGAATAAAAGAACTGAGAGATCTAATG
+HWI-EAS443:3:18:226:931#0/1
Y`bb`W¥]Vb`a]La]bT__¥a¥aY`RVNN`JSa_[_aa
@HWI-EAS443:3:1:565:1402#0/1
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+HWI-EAS443:3:1:565:1402#0/1
Y`bb`_`bbbbbbbaa`abbbbabbabbbbbaaabbaa`bb
@HWI-EAS443:3:22:1099:215#0/1
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+HWI-EAS443:3:22:1099:215#0/1
`aaaabb`]`aabbab_b`_aaaaaaaa_aaba`aaWa
@HWI-EAS443:3:27:164:254#0/1
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+HWI-EAS443:3:27:164:254#0/1
`a```a^a_OW^`^]`_¥V[]]W_`^`^`^Y_X]X^Z]]^
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+HWI-EAS443:3:28:1234:839#0/1
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@HWI-EAS443:3:34:1208:1408#0/1
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+HWI-EAS443:3:34:1208:1408#0/1
a```Yb^[a¥P¥`]a¥ZOR_R][`]aba^`¥b`_N_FXP]
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+HWI-EAS443:3:35:1220:1854#0/1
aba`^^[Zaaa]a`__`aa`aaa``^`_`a`Y`a`^a^a
@HWI-EAS443:3:36:1339:415#0/1
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a_b```_abaa`[]_aa`aa`aaaa¥aZ`a]``a¥X`]
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@HWI-EAS443:3:44:767:1960#0/1
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@HWI-EAS443:3:58:1551:1276#0/1
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¥^_△G]TZa¥a`[_`_]a`Vb^]_[]`_]`aab^[a`P]_
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+HWI-EAS443:3:79:847:1471#0/1
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a`aa_`W`a_aa`aa``_[^_a`XHZ¥`^)`^^^^`^
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^VDXQ`^]][_N_a^`¥S`__`__^Z¥[¥YX^XWX]]^^]Y
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^^¥`aaaG`aa]aa`a```_`_]^^`S_^`_¥DX_]`_`
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+HWI-EAS443:3:23:1570:1217#0/1
ab`]`a^Ya^D¥baaabaa`_a`aaa^a_a__`_`_^`_`_¥

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a`¥_VZ``aTVXQYYU]]_`aa`¥aa][`ZDZ]_^a]H[_
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\_\_`\_^aa¥b\_UN\_L¥^Z\_[b]DYX\_a``LUPZZ\_]¥\_¥`^  
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aa`ba`ba``\_ba`\_aTDSb¥`a`\_a\_a]a`]^`^^\_AY  
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aa`X)`a\_a\_\_```\_^RDW][\_`\_\_ZVY\_]`]]^^\_]`^WO  
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¥QJZZ\_]\_] ]b\_aU]]^\_a\_`a^`¥P^QZ^`Y` [``^OU  
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^]^^TW\_P\_a\_\_¥Z]^b]^V\_]\_\_WY``U¥^^`V[a]S`  
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aa_¥_a[\`[¥aaaa_^aWax_a__Z^]^aY^[]W_^`_^
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+HWI-EAS443:3:61:1325:1437#0/1  
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+HWI-EAS443:3:61:1706:1479#0/1  
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`¥^`^^`\_W^a\_\_a]]\_a¥UY]YGS[\_` `^V]^`[^Z[Y[  
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GAAATGCTAGCAAGCATTGACCTAAAGTACTTCAATGAAT  
+HWI-EAS443:3:56:992:1392#0/1  
aaaa\_\_^ba¥`ba\_`aaa`]SX\_W¥aaRa`````\_aaa\_\_`  
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GAAAGCGAAAGCAGGCAAACCATTTGAATGGATGTCAATC  
+HWI-EAS443:3:52:534:381#0/1  
a]¥X\_^\_WZ\_YX]aa\_[]X[S[^\_^¥]aaX]]UQZTTO



@HWI-EAS443:3:67:139:1048#0/1  
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+HWI-EAS443:3:67:139:1048#0/1  
aab\_VYa`aaZaaaa`\_`a\_aa¥DX`Y]]V[\_Z[¥RS  
@HWI-EAS443:3:27:704:378#0/1  
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+HWI-EAS443:3:27:704:378#0/1  
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@HWI-EAS443:3:6:1099:1316#0/1  
AAAGCAGGCAAACCATTTGAATGGATGTCAATCCGACTAT  
+HWI-EAS443:3:6:1099:1316#0/1  
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@HWI-EAS443:3:7:1606:146#0/1  
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+HWI-EAS443:3:7:1606:146#0/1  
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+HWI-EAS443:3:16:412:649#0/1  
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+HWI-EAS443:3:20:930:135#0/1  
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+HWI-EAS443:3:3:1286:700#0/1  
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+HWI-EAS443:3:3:219:774#0/1  
aba`T¥aa[0^\_R\_\_`X[[a`a\_ZX`U\_]¥GX[VVGKP[  
@HWI-EAS443:3:46:1761:1622#0/1  
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+HWI-EAS443:3:46:1761:1622#0/1  
Y\_aa^`ba`^aa`ab¥Z¥\_]`¥\_baa`a]^\_¥\_[H\_  
@HWI-EAS443:3:54:1174:1006#0/1  
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+HWI-EAS443:3:54:1174:1006#0/1  
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+HWI-EAS443:3:63:98:1784#0/1  
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+HWI-EAS443:3:85:151:1808#0/1  
]¥^a`aZYa]RYa`aa`TX\_¥Z`][UWT]X\_T]W]\_X¥  
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+HWI-EAS443:3:88:358:1588#0/1  
aba`abb`abaabbbbaabaaaa`a]`\_a`^aaaa\_^a  
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+HWI-EAS443:3:94:318:847#0/1  
abbaa`Q\_[R`a`\_`\_`[\_`\_`a`\_`^a^\_Z\_R`\_YW\_Y`Q  
@HWI-EAS443:3:97:967:1048#0/1  
GGCGAAAGCAGGCAAACCATTTGAATGGATGTCAATCCGA  
+HWI-EAS443:3:97:967:1048#0/1  
^^`\_\_^`\_\_`¥XR^[^a]Waaab^U\_b```^OMZ]^W]ZM  
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GCGAAAGCAGGCAAACCATTTGAATGGATGTCAATCCGAC  
+HWI-EAS443:3:12:417:165#0/1  
aa\_\_\_\_[`a¥`\_]a`a\_`aa`a\_`^¥^\_`\_Z¥^^`¥^\_UW  
@HWI-EAS443:3:14:400:1732#0/1  
CGAAAGCAGGCAAACCATTTGAATGGATGTCAATCCGACT  
+HWI-EAS443:3:14:400:1732#0/1  
`¥\_aW`^`aa¥a^a`¥aaaa\_[ZT¥R^[\_\_aSa]ZR\_Z  
@HWI-EAS443:3:15:1219:179#0/1  
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+HWI-EAS443:3:15:1219:179#0/1  
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+HWI-EAS443:3:15:338:1239#0/1  
aaba`aa`¥a]a\_a[\_`\_`^\_\_\_\_^`^^\_\_R]][\_`\_`^]]  
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GCGAAAGCAGGCAAACCATTTGAATGGATGTCAATCCGAC  
+HWI-EAS443:3:18:981:1616#0/1  
a\_XZ]a`\_]a\_a¥RT`[]Y¥aXZ`]T]]^O\_\_\_\_XKXYMR  
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+HWI-EAS443:3:19:430:1902#0/1  
aaaa`aa`\_a]\_aa`a`^a`\_`a\_\_\_\_^^^`[\_]\_`\_\_\_\_ZX  
@HWI-EAS443:3:19:511:1850#0/1  
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+HWI-EAS443:3:19:511:1850#0/1  
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GCGAAAGCAGGCAAACCATTTGAATGGATGTCAATCCGAC  
+HWI-EAS443:3:19:769:527#0/1  
aaa^a¥`\_`Y```[^[W`\_`a```\_`a^\_\_U]^\_XUWZYQ  
@HWI-EAS443:3:1:1665:1584#0/1  
AGCGAAAGCAGGCAAACCATTTGAATGGATGTCAATCCGA  
+HWI-EAS443:3:1:1665:1584#0/1  
abba`¥^b\_b`a`aaaZ]\_aa^b`a\_a`\_aa\_Z`^R]BB

@HWI-EAS443:3:20:482:1119#0/1  
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+HWI-EAS443:3:20:482:1119#0/1  
a`X\_ZUXZ]a\_¥[^¥\_\_\_Z`\_^`[UX]XZ^Y^]]VITW]  
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CGAAAGCAGGCAAACCATTTGAATGGATGTCAATCCGACT  
+HWI-EAS443:3:21:790:498#0/1  
ab`]\_\_\_\_\_aY¥a\_UPV]\_\_¥OWaW]]^]aYUZa^\_UPUQR  
@HWI-EAS443:3:22:621:297#0/1  
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+HWI-EAS443:3:22:621:297#0/1  
a¥Tb[`ab`a`X`\_Z`W`¥UYaa¥\_^a^V]]VWYWLL¥]V  
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+HWI-EAS443:3:22:72:1812#0/1  
aaaab\_ab`b]\_aa`aaa\_a\_a^a\_\_]\_Z``]^a\_^Z^^  
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+HWI-EAS443:3:23:1388:1363#0/1  
^ab`\_Zaaaa\_[R`J¥ZW`\_a^X`\_¥ZaZZ[XaZUGU\_¥  
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+HWI-EAS443:3:23:1557:1951#0/1  
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+HWI-EAS443:3:25:482:1283#0/1  
aaZ^`abZ`b\_J\_baab`a]ab`a`\_\_a^`Z]^Wa`]]^  
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+HWI-EAS443:3:26:524:20#0/1  
aa`[a^aa^```[aaaa\_W`a^0[`\_a¥`^`OJW¥R^]]T  
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+HWI-EAS443:3:26:583:47#0/1  
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+HWI-EAS443:3:27:1411:1097#0/1  
aaa[aaaaaaaa]a\_^aaaaa^`\_`a`^a¥^\_a\_V]\_^X  
@HWI-EAS443:3:27:1567:1033#0/1  
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+HWI-EAS443:3:27:1567:1033#0/1  
a`¥a\_abbaab\_baaa]bab^^`\_]aaba`aWS^`[\_Pa^  
@HWI-EAS443:3:27:735:240#0/1  
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+HWI-EAS443:3:27:735:240#0/1  
aaa[aa`aa\_W^`\_\_\_\_\_¥PV^\_\_]]`X]]]VTWZZT  
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+HWI-EAS443:3:30:337:227#0/1  
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@HWI-EAS443:3:30:84:545#0/1  
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+HWI-EAS443:3:30:84:545#0/1  
abba]aa]0)`aa^a`bZ¥^a¥¥`][HVYa^^^^[¥¥\_Z]  
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+HWI-EAS443:3:33:1046:561#0/1  
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@HWI-EAS443:3:33:1510:434#0/1  
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+HWI-EAS443:3:33:1510:434#0/1  
S\_Zaa^`aaM^bbKbY`aab`¥a\_\_YJa`\_][[T`WX[OT[  
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^¥`aaZX`bbb\_¥bab\_Z\_aabbaaaa[`\_b\_¥V`a]\_]W  
@HWI-EAS443:3:36:367:1155#0/1  
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+HWI-EAS443:3:36:367:1155#0/1  
aabaaababa`\_a]aaaa^a`a\_\_`\_a\_\_\_aZ``R¥a`^ [  
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+HWI-EAS443:3:37:515:56#0/1  
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@HWI-EAS443:3:39:503:1355#0/1  
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+HWI-EAS443:3:39:503:1355#0/1  
aabbbba`bbbabb`aabbaaaa]Yababa`aabbaa^]  
@HWI-EAS443:3:39:978:509#0/1  
GCGAAAGCAGGCAAACCATTTGAATGGATGTCAATCCGAC  
+HWI-EAS443:3:39:978:509#0/1  
aaaa\_\_b\_aaaaa\_a^\_\_\_^\_a¥]\_a]]`]ZW]]^ZW]ZO  
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ab`aababbaabb`\_`aabaaababbbb`aaba\_aa`^\_  
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+HWI-EAS443:3:42:759:571#0/1  
aaaa\_aaba`a`\_aa`\_`\_`aaa^\_\_a`\_`\_aW¥Z^`\_`\_¥V  
@HWI-EAS443:3:43:527:1469#0/1  
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+HWI-EAS443:3:43:527:1469#0/1  
^aZ`bbb^^¥¥aZbab^``bbbba`aa`aabab\_[¥¥TQ^  
@HWI-EAS443:3:46:1759:446#0/1  
GTCCGATTGACATCCATTCAAATGGTTTGCCTGCTTTCGC  
+HWI-EAS443:3:46:1759:446#0/1  
a```]`\_aa`\_`\_]Y\_`^^`a\_^a]^^^UPX[ZU\_] ^Y\_Y

@HWI-EAS443:3:46:380:1390#0/1  
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+HWI-EAS443:3:46:380:1390#0/1  
aaa`a]`aaba`aa\_aaaa^`a`aa\_a]Ya`^V]^^Z  
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+HWI-EAS443:3:47:227:1224#0/1  
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+HWI-EAS443:3:48:359:1366#0/1  
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+HWI-EAS443:3:4:1008:156#0/1  
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+HWI-EAS443:3:51:141:628#0/1  
0\_\_`W¥\_I`\_]`^]`^\_ZV^a[S¥b^ba]a```\_Y]ZZa¥  
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a`aaaaa`aa`^aaa\_]a`\_a`a\_a``\_Z`a\_\_U\_]W  
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+HWI-EAS443:3:59:342:475#0/1  
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+HWI-EAS443:3:5:1149:440#0/1  
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+HWI-EAS443:3:5:1484:1031#0/1  
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+HWI-EAS443:3:5:710:1488#0/1  
aa¥^aaba^N]`\_\_^`aaabb`a]a`aaa[a\_`Z¥^¥^`  
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+HWI-EAS443:3:61:1520:1434#0/1  
a[WGPW\_`\_`\_]`^]`[[U¥¥\_W\_`^`^\_YPRVPMLOZZO  
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+HWI-EAS443:3:61:768:1216#0/1  
a¥T\_[]`^^U]]Z]\_\_^\_\_a\_Y`^X^X]^SR\_Z]^YYZPX  
@HWI-EAS443:3:62:616:1580#0/1  
GCGAAAGCAGGCAAACCATTTGAATGGATGTCAATCCGAC

+HWI-EAS443:3:62:616:1580#0/1  
aaaaW]]aa`\_aaVaa\_\_`^^^\_\_^\_\_`\_`W\_\_\_\_]\_^YZ^  
@HWI-EAS443:3:63:1024:1748#0/1  
CGAAAGCAGGCAAACCATTTGAATGGATGTCAATCCGACT  
+HWI-EAS443:3:63:1024:1748#0/1  
ab^aaaa`a][aaaaabaaaa]\_`^`\_]X^]aWR\_U]`  
@HWI-EAS443:3:63:1439:1234#0/1  
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+HWI-EAS443:3:63:1439:1234#0/1  
aa]b\_bb```a\_a`aaba[`aaY¥[Xb]Z¥UNa[``\_`\_^\_]`  
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+HWI-EAS443:3:64:868:918#0/1  
ab^abbaa\_aaaaaaa]`aa`\_\_aa[a````\_``\_`\_`¥¥  
@HWI-EAS443:3:65:57:1015#0/1  
CGAAAGCAGGCAAACCATTTGAATGGATGTCAATCCGACT  
+HWI-EAS443:3:65:57:1015#0/1  
aaZaba\_W^aaTWaaa[``\_Z]]\_\_`\_]`X\_Z`\_]`^TY]  
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+HWI-EAS443:3:67:1599:1768#0/1  
\_ZZ[\_[\_HXX]`a\_^PLPZa[aZ[\_aBBBBBBBBBBBBBBB  
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GTCGGATTGACATCCATTCAAATGGTTTGCCTGCTTTTCGC  
+HWI-EAS443:3:68:857:1796#0/1  
\_abbb`bbabbbb\_]\_bbaababa\_^aaaaaa]aaaXa`  
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+HWI-EAS443:3:69:1393:1879#0/1  
a^¥]aa`^baa\_aaaaaaa`\_`a`\_`^a`¥XX¥``UZZ][  
@HWI-EAS443:3:70:1678:189#0/1  
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+HWI-EAS443:3:70:1678:189#0/1  
^`[ZS\_¥S¥b`\_aa`[M]`[`b\_a`¥TZX`[XWZXJJRMV  
@HWI-EAS443:3:72:280:1309#0/1  
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+HWI-EAS443:3:72:280:1309#0/1  
abb¥`b^b\_]`^^^aa]^^^\_V`Y]¥^aa`\_Z]`X`Z¥\_  
@HWI-EAS443:3:74:882:865#0/1  
GTCGGATTGACATCCATTCAAATGGTTTGCCTGCTTTTCGC  
+HWI-EAS443:3:74:882:865#0/1  
aW`]`aa¥USaa\_¥¥a\_\_\_\_XW`\_\_¥`^`\_^]`^`\_\_¥XN  
@HWI-EAS443:3:75:1488:207#0/1  
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+HWI-EAS443:3:75:1488:207#0/1  
aab\_]NZbb^`abK````\_`a^aaaba\_]GY`b^a`\_]RW  
@HWI-EAS443:3:77:476:1570#0/1  
AGCGAAAGCAGGCAAACCATTTGAATGGATGTCAATCCGA  
+HWI-EAS443:3:77:476:1570#0/1  
a`b\_a`b`ab\_T\_ZW[`Z`]aZV`\_``]]\_\_X]a\_UNU^^

@HWI-EAS443:3:7:124:342#0/1  
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+HWI-EAS443:3:7:124:342#0/1  
aa`\_Z[X^ZV\_a^VZZTV]^WVRXY`\_^Y¥RX[YSUTTXB  
@HWI-EAS443:3:7:670:1387#0/1  
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+HWI-EAS443:3:7:670:1387#0/1  
``aaaaaaaa\_baa\_a\_aaaa\_aaaa\_\_aYR\_\_^YS[]  
@HWI-EAS443:3:83:1054:1266#0/1  
AGCGAAAGCAGGCAAACCATTTGAATGGATGTCAATCCGA  
+HWI-EAS443:3:83:1054:1266#0/1  
ab`aaaaa¥aa`b\_b`baaaa`aaa```\_a\_a¥a`^a^]  
@HWI-EAS443:3:87:185:385#0/1  
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+HWI-EAS443:3:87:185:385#0/1  
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GCGAAAGCAGGCAAACCATTTGAATGGATGTCAATCCGAC  
+HWI-EAS443:3:87:515:875#0/1  
a`^`aab^ab^`\_a`a\_a`aR`\_[]¥aW[]\_]¥]P¥  
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GTCGGATTGACATCCATTCAAATGGTTTGCCTGCTTTCGC  
+HWI-EAS443:3:88:1400:878#0/1  
`LUa`]Z¥\_a^WZ¥`a^SG[]^[]VQ¥\_\_`P\_\_^`^^X^[]  
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CGAAAGCAGGCAAACCATTTGAATGGATGTCAATCCGACT  
+HWI-EAS443:3:8:438:1539#0/1  
abaaa`¥ba\_aaa\_\_`a`aaaa`\_a\_a\_a]^`a^^0\_Z]^  
@HWI-EAS443:3:91:155:538#0/1  
AGCGAAAGCAGGCAAACCATTTGAATGGATGTCAATCCGA  
+HWI-EAS443:3:91:155:538#0/1  
aabbb`¥`Xaa`\_^ZZ`aba^```\_^`a`\_^V````]YQOQ  
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TCCATCCTCAAGAATTCCCCTTTGGCTTGTGTTGAGAATA  
+HWI-EAS443:3:92:805:122#0/1  
XHHaZU[a[]N¥W]Z[^00T][RJ¥\_\_T`Y\_\_`YR]HWYB  
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+HWI-EAS443:3:94:263:973#0/1  
^b`\_Z]XaS¥Y\_\_V^aaaaa`a`\_\_b\_\_^aZ\_`\_^[]QN  
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+HWI-EAS443:3:94:453:1337#0/1  
aaaaaaaa`abbaaaaaaaaaaaaaa\_a`a]\_\_a`\_\_^]^\_  
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+HWI-EAS443:3:96:350:1390#0/1  
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+HWI-EAS443:3:9:1247:958#0/1  
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+HWI-EAS443:3:74:47:1398#0/1  
[ZXZR\_aaaZVH`R`XaT`¥[[\_P¥0\_^^\_`^¥Y¥^  
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+HWI-EAS443:3:7:1021:1503#0/1  
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@HWI-EAS443:3:52:529:432#0/1  
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+HWI-EAS443:3:52:529:432#0/1  
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TGGGCGGGGAGTCTTCGAGCTCTCGGACGAAAAGGCAACG  
+HWI-EAS443:3:6:160:1140#0/1  
\_a¥¥`^`¥\_\_\_ZM\_\_XaVR`\_aSa`\_`^`\_¥QTU[X`Z  
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+HWI-EAS443:3:76:838:259#0/1  
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+HWI-EAS443:3:21:1269:817#0/1  
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+HWI-EAS443:3:38:709:65#0/1  
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aaaa`abaab\_`aaa^Y^a`\_`aa\_]Uaaa`\_`[^UTZ[¥a\_  
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+HWI-EAS443:3:12:1559:1517#0/1  
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+HWI-EAS443:3:84:369:476#0/1  
a\_RZ[\_Haaaa`\_a\_\_a`\_`a^\_`^aa]`¥\_\_Ua^`\_a^`XE  
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+HWI-EAS443:3:88:1270:1662#0/1  
ab`QX^`bbbab\_[bb^`bYa`[aR][^aa^^bbI`abX\_



@HWI-EAS443:3:89:1315:931#0/1  
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+HWI-EAS443:3:89:1315:931#0/1  
`^^[\_^\_\_^a`QT`\_W\_]H]¥^Za¥`YUUY[DH¥WUPP¥Z  
@HWI-EAS443:3:47:631:995#0/1  
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+HWI-EAS443:3:47:631:995#0/1  
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+HWI-EAS443:3:52:832:17#0/1  
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+HWI-EAS443:3:75:879:815#0/1  
a``bbbbbab\_bbaaaaa`a\_aaaaba\_]``aaaaba¥\_a  
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ATCCATCATTGCCCTCTGGGCAGCTGTTTCAAATTTTCCT  
+HWI-EAS443:3:10:1202:357#0/1  
aa`]aaa\_a`aUGQ\_]`\_`TP[\_]`^UX¥`^Z]\_\_\_]¥W]^  
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TCCATCATTGCCCTCTGGGCAGCTGTTTCAAATTTTCCT  
+HWI-EAS443:3:10:266:872#0/1  
abb¥^`\_a\_]\_\_`a\_a`\_\_`aa`aZ¥aa^`\_\_`\_]`\_`  
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+HWI-EAS443:3:11:1597:1681#0/1  
a\_b`aabbb\_baa`b^aba`]`a¥a`\_aaa`ZU[`a\_XX  
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+HWI-EAS443:3:12:1486:692#0/1  
X\_bbaa]abaaaa^`¥Ya]¥UZa¥aaaPY\_`^`a¥Z]]\_  
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+HWI-EAS443:3:13:570:1443#0/1  
a\_[`aa\_`X`¥]VZ\_XZ`Z\_a^X[`\_YG¥ZZY¥]W\_^ZUS  
@HWI-EAS443:3:15:999:897#0/1  
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+HWI-EAS443:3:15:999:897#0/1  
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+HWI-EAS443:3:16:1648:406#0/1  
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+HWI-EAS443:3:18:1451:1169#0/1  
ab\_a]baaaa\_b`aa`a]`]^\_\_\_\_`\_aU^^\_\_^V^`\_W]Y  
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+HWI-EAS443:3:19:671:423#0/1  
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+HWI-EAS443:3:22:784:307#0/1  
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CTCAAAGGAAAATTTCAAACAGCTGCCAGAGGGCAATGA  
+HWI-EAS443:3:24:549:1412#0/1  
¥\_\_¥\_````¥Z¥Q\_^[\_abaYa[PW[UUUVZWWWYb\_]]  
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+HWI-EAS443:3:25:659:318#0/1  
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+HWI-EAS443:3:27:452:1774#0/1  
\_b^^`\_aZ¥Q]\_W]¥^^`ZSRU[][[YZY¥YU¥]X]]¥  
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+HWI-EAS443:3:33:433:234#0/1  
aaabZa\_aa`a\_aa`a\_\_```\_\_\_\_\_`a`\_^\_^]\_^  
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+HWI-EAS443:3:34:1375:868#0/1  
aaZ\_baaa`Y^P¥¥`\_]Q\_LP\_\_\_\_\_]\_]Y\_^]\_\_ZYLR^  
@HWI-EAS443:3:35:1747:1525#0/1  
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+HWI-EAS443:3:35:1747:1525#0/1  
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ATCCATCATTGCCCTCTGGGCAGCTGTTTGAAATTTTCCT  
+HWI-EAS443:3:36:1098:1746#0/1  
a^aa`a\_^^]\_^\_]Z^^UXZ^^]ZXXZZ]]VRZ]ZX]ZZ

@HWI-EAS443:3:38:589:511#0/1  
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+HWI-EAS443:3:38:589:511#0/1  
aaa`a^^^[\_VUZZ^[\_^[\_W\_[ZWZWT¥^XOXZ¥Z  
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+HWI-EAS443:3:42:433:994#0/1  
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+HWI-EAS443:3:44:526:599#0/1  
aa\_aYaba\_a]aaa`]¥aaa`\_]Y`a\_\_^`¥[a`]PR  
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+HWI-EAS443:3:44:767:918#0/1  
`\_¥Z[aa\_Xa`\_a\_¥PMX^[W^Ua`^Y[Y[`\_\_^\_TZ]SQ  
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+HWI-EAS443:3:45:1507:829#0/1  
aa]]`^^^\_]^\_a`Z`[¥VUa\_^a]^W]VY^`\_\_¥XM[  
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+HWI-EAS443:3:47:515:156#0/1  
`Va`\_aZ]a`a^[aa¥ZN][[a¥KUX\_aU^a\_¥V0[]`  
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+HWI-EAS443:3:48:1482:974#0/1  
]bba\_]\_`^\_]`a`\_ZZ`^T]Z]\_\_a`^V`a\_a`WR\_  
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+HWI-EAS443:3:4:337:1913#0/1  
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@HWI-EAS443:3:4:628:1416#0/1  
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+HWI-EAS443:3:4:628:1416#0/1  
ababab^^ba\_a`bJ\_`^`]S`^^\_a]^\_a`\_¥`a`OX  
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+HWI-EAS443:3:4:719:313#0/1  
aaaaabaV`\_]\_a[¥a[^]]`\_]W\_^Z\_¥\_Z^U]V]  
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+HWI-EAS443:3:50:260:1240#0/1  
aa`a[a\_FV]N`aWa\_aaG`\_aaUb\_`\_`b[\_`WaGaT]Z  
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+HWI-EAS443:3:53:163:108#0/1  
a\_V\_W]\_\_a`\_`¥Y]]UT`^ZUU^S]\_NYZ]YWYU]^ZRT  
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ab]a\_aaaa\_aa`¥^]a\_\_V¥a]`aS\_aa[¥^a`\_`\_WX\_  
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+HWI-EAS443:3:62:240:771#0/1  
¥aW\_XYH\_^]b]]^a]`^`aZVW^[FF[Z][a^`XYW]^S  
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+HWI-EAS443:3:64:1350:1597#0/1  
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+HWI-EAS443:3:64:1367:1044#0/1  
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`\_Y\_aa^Y^Z``]]¥W^`W]XWW¥^[WX[[PLY¥¥`\_YYZ  
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+HWI-EAS443:3:70:115:1758#0/1  
a`\_^YX`^^]^[a[]Va\_]\_\_]a\_a^]L¥SXU`IXZ^¥X  
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+HWI-EAS443:3:71:1354:255#0/1  
````[¥^aa^`\_^W`a\_\_a^\_]\_`Z`\_[¥\_]\_`^]`\_XVG  
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GATCCATCATTGCCCTCTGGGCAGCTGTTTCAAATTTTCCT
+HWI-EAS443:3:72:1169:1266#0/1
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+HWI-EAS443:3:72:140:808#0/1
_`a`^Z¥YS__WXVZ¥TSRJXRJMRUJG]_VQT]Q¥_PL`
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+HWI-EAS443:3:72:931:1871#0/1
aX`aa`_a^Xa```_]^[Z_]^[¥WU]ZO]^[YX]¥V[
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+HWI-EAS443:3:73:400:1320#0/1
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@HWI-EAS443:3:73:802:672#0/1
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+HWI-EAS443:3:76:1309:1874#0/1
aabbabaabaa_¥`YZZaYaaa¥___aa¥a`_X_____^R`
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+HWI-EAS443:3:78:108:586#0/1
aaaaaaY]ZYa``__`^ZN[^[[¥Z^]]^^¥YV¥]_WPT^
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¥¥a^]_aaaa`aa`VTZ_a`a`]`[^`^_V]_]^[[^
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¥N`a`a`aW¥[^P__SZV[_a]_¥ZV_X]a_abaN_a]`
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^VY]RZZ)`_^[X]ZTV¥SV`]_P_]W]XR]YT[NIVLN
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a`]YKWa]R_TT^__^VH]¥X__X`WXSUYX__]PPSW^V
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ACTTGATCCATCATTGCCCTCTGGGCAGCTGTTTCAAATT
+HWI-EAS443:3:89:456:221#0/1
aa_aa`_a`__aaa_a_____^a`__¥a`]^X]^XZZ¥^
@HWI-EAS443:3:90:270:1226#0/1
ATCCATCATTGCCCTCTGGGCAGCTGTTTCAAATTTTCCT
+HWI-EAS443:3:90:270:1226#0/1
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@HWI-EAS443:3:39:758:747#0/1
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+HWI-EAS443:3:39:758:747#0/1
aaaaaaaaab]^_G^`aa`a_a_a`_`____`S`TW¥`_a_
@HWI-EAS443:3:44:433:914#0/1
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+HWI-EAS443:3:44:433:914#0/1
a[aY`a`_W^X]_`W[[`]__U_ZXQ[[R[]]^R^¥[¥
@HWI-EAS443:3:50:1727:236#0/1
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+HWI-EAS443:3:50:1727:236#0/1
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@HWI-EAS443:3:60:28:1555#0/1
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+HWI-EAS443:3:60:28:1555#0/1
aaa[a^`[^]_]Y_aZMQ_^U`WY^`^_^`V`Z¥___Z_
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+HWI-EAS443:3:63:478:476#0/1
`^aa[^bb`abab`aaaa`]aabb`a__a```aaa^¥X^
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+HWI-EAS443:3:79:50:1104#0/1
a`bbaa`b]bb````]X]P`a_aa`_Y^`TQLTT_aaT
@HWI-EAS443:3:84:747:1387#0/1
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+HWI-EAS443:3:84:747:1387#0/1
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+HWI-EAS443:3:95:1735:445#0/1
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@HWI-EAS443:3:82:716:1355#0/1
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+HWI-EAS443:3:82:716:1355#0/1
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@HWI-EAS443:3:85:31:1875#0/1
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+HWI-EAS443:3:85:31:1875#0/1
¥b[_V]`TLQUZaZab]abZFS[QP^^SW¥[^^HO]Z]aB
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+HWI-EAS443:3:18:220:1798#0/1
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@HWI-EAS443:3:22:56:814#0/1
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+HWI-EAS443:3:22:56:814#0/1
aWa]¥XX`a]b¥a`a^``aaaa`XZ`Z_a_^U^Z^^`_[[`
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+HWI-EAS443:3:15:1070:1824#0/1
abaaX_aa`a[ab¥a0b__adWa`a^a_^`_U_a`W`a_`
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+HWI-EAS443:3:35:1218:616#0/1
Z^UTN]aaaba_^aabbVa¥[aXaaaaQa__b^_X``_U]
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+HWI-EAS443:3:60:394:751#0/1
aaaba`^_] ^aaaaaa]aaaa`a_a` `` `a_^` ____` [X_
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+HWI-EAS443:3:46:1180:649#0/1
`a[¥U[[_]_¥P[b___U_¥KZ_ZZX]_^XH¥]]UYU]_V
@HWI-EAS443:3:78:121:1411#0/1
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+HWI-EAS443:3:78:121:1411#0/1
a`Z`_]X_a`[^TVZ_P¥_^[^`a`_] [^[YYSVVVS^_¥
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+HWI-EAS443:3:78:162:724#0/1
Y` ``_WNY¥WZTOT_[^¥^[FWX][_UQZP]_aa^`][GNU
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+HWI-EAS443:3:16:126:1796#0/1
abaa[aN__`]TaUVW_^[OUY_^a]_^X]P^]RU¥_^`Y
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+HWI-EAS443:3:30:1152:708#0/1
a_aXRbX`_aa`^R_aabaabaaaa[a]XXa^^]Ga__
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+HWI-EAS443:3:36:1591:333#0/1
ab```bbYb`baHa`_aaaa_a¥¥]``¥_W`¥^VV[_¥Y^
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+HWI-EAS443:3:85:160:785#0/1
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+HWI-EAS443:3:11:1072:709#0/1
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@HWI-EAS443:3:18:736:626#0/1
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+HWI-EAS443:3:18:736:626#0/1
aY_`^aa_aaa`aZa[``^^[ULZ_^^`_YVW]]]YVX^W

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+HWI-EAS443:3:1:1425:1842#0/1
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@HWI-EAS443:3:1:1686:497#0/1
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+HWI-EAS443:3:1:1686:497#0/1
aa[`baa`ba`]a`Za^a_`a`W`a`a^Z_Z`^^^`BB
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+HWI-EAS443:3:20:827:2032#0/1
aW^_aaYaW0¥[_ba^a`P]aT`_`^_aa_] [¥]a__¥^^
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+HWI-EAS443:3:24:976:1022#0/1
_]a[`ba^_V]ZbbaXaa[``]aaIb`_`[XaX`]^a`_a
@HWI-EAS443:3:32:1738:328#0/1
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+HWI-EAS443:3:32:1738:328#0/1
aab`aaa¥baaaaa]aaa_aa_`Ya_`__a``__```aa
@HWI-EAS443:3:38:1400:1242#0/1
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+HWI-EAS443:3:38:1400:1242#0/1
ab_Y`a^_]`aYZ_¥^YR`X^`]`^_`^LFX]¥NKZH¥P
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+HWI-EAS443:3:40:520:355#0/1
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@HWI-EAS443:3:47:471:135#0/1
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+HWI-EAS443:3:47:471:135#0/1
¥^[M`^V¥_UU]Y¥Y__0]Q_a__WR]¥ZY_]Z]F]X_UX
@HWI-EAS443:3:67:1374:1347#0/1
GTCCTTCGTCCATTTTACCCCTCCAGAAATTTTCGCTCAT
+HWI-EAS443:3:67:1374:1347#0/1
aW_Y]a_YY^¥_aa]U^_a^¥ZWY_____X[Y^X^OW]DLYX
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+HWI-EAS443:3:67:420:1093#0/1
aaTYX]a``]`^a¥a^_Z0^^WMX[WQ^YZWWW¥^[[YUN
@HWI-EAS443:3:6:1539:1200#0/1
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+HWI-EAS443:3:6:1539:1200#0/1
aaZa`_]babb`[`a^UaaZU]aX_F¥ZQJUYaWU^[]B
@HWI-EAS443:3:75:763:384#0/1
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+HWI-EAS443:3:75:763:384#0/1
`ab[X`_]¥Z`^M`ab`_]V^a`aa_bXV_a]aaX_V
@HWI-EAS443:3:7:706:1747#0/1
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+HWI-EAS443:3:7:706:1747#0/1
a_aaaaaba`aa[`a`a`a`^a__aa¥`Yaa`]]_^^W`
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+HWI-EAS443:3:88:506:1348#0/1
a``^Y`abab¥[aa_XZ¥ZP_Z^SMa¥]Q__`X``_] [TN
@HWI-EAS443:3:95:238:269#0/1
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+HWI-EAS443:3:95:238:269#0/1
aa``a`_a[_^`X_^_]UUTXXXUUXUYX]YUXYYUXU
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+HWI-EAS443:3:97:1681:1057#0/1
TXSa)`¥`_]_b_¥T_bWRVab]a¥_I_bbUIX_WK^Y¥
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+HWI-EAS443:3:81:631:389#0/1
S¥TXQZQ¥__VaaW¥`_LZ_ZZab^[bb]Gaa¥RT¥`]]¥
@HWI-EAS443:3:9:328:363#0/1
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+HWI-EAS443:3:9:328:363#0/1
_X]U]_S[]__`___^LX_Z[VVX^US¥RU[Q¥PMUV¥XY
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+HWI-EAS443:3:65:1336:730#0/1
`aa`abbb_a`aaa_`[aa`ODY`S__`a`^^_ZW`W`^^
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+HWI-EAS443:3:92:1250:1906#0/1
S[UbJ`WVX¥K)`¥¥¥aWX_[a]Kb]_H¥DT`b]^ [VbaI
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+HWI-EAS443:3:93:749:524#0/1
`W¥DX`¥`aZN[W[`_W]¥_ZaZa`]W^_¥WUa[^Y_XM_
@HWI-EAS443:3:94:582:1351#0/1
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+HWI-EAS443:3:94:582:1351#0/1
`]abab`abaa[D^aaaaa```aa`¥V____```a_a]]Y
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+HWI-EAS443:3:13:607:639#0/1
_bbabbbb_b`_ab`aabaaaa_aa`aa`aa^XaaaYG¥
@HWI-EAS443:3:20:1630:431#0/1
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+HWI-EAS443:3:20:1630:431#0/1
aaaa¥^_b]]_a_aV`^baa^_a`____`]¥aaaXb__¥F^
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+HWI-EAS443:3:28:1392:51#0/1
`_0`aaabbaaV^¥_¥`Wa[WY```_a¥__U____[^`WG^

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+HWI-EAS443:3:48:990:964#0/1
aa_a_aa`¥_``a¥^U_`aa_^_WQ`W]]^^^Y]WX^¥X
@HWI-EAS443:3:77:1680:1339#0/1
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+HWI-EAS443:3:77:1680:1339#0/1
aa`b`bb^bbb`bbbbabb`abbaabba_aaaaba``b
@HWI-EAS443:3:82:703:433#0/1
CCCCCTCCAGAAATTTTCGGTCATTGATTCCACGTTTGATT
+HWI-EAS443:3:82:703:433#0/1
aa_`]aaa_a`¥`ab`aba^[_a_]a^`a[a_aaa_ZG
@HWI-EAS443:3:8:1126:160#0/1
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+HWI-EAS443:3:8:1126:160#0/1
a`OQV^[baaba]aa`¥UY`X]__a__RUV0^Y_YWaa_X
@HWI-EAS443:3:31:599:273#0/1
GATCAATGACCGAAATTTCTGGAGGGGTGAAAATGGACGA
+HWI-EAS443:3:31:599:273#0/1
abaaa_bbbba_]__a`aaaa_baa_Za¥`_``a_____`
@HWI-EAS443:3:36:1534:2037#0/1
CACGTGGAATCAATGACCGAAATTTCTGGAGGGGTGAAAA
+HWI-EAS443:3:36:1534:2037#0/1
aa]^Zaa`]aa_a¥]Uaa[`]__^_a_[_a]^U_a]X`
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+HWI-EAS443:3:38:557:565#0/1
a_FZaaab_W``^_a_[`Y]aaa`a_[`¥_Ya^V[U[X]Y
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+HWI-EAS443:3:43:701:539#0/1
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+HWI-EAS443:3:45:1501:1887#0/1
aaa¥PRaaaaXWxba`_a^a`ba_a`aaa`aa^Wa`]^[
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+HWI-EAS443:3:51:1423:2017#0/1
a`_YX¥__a`RQ[aba`^S^^^¥[a¥Z]]XI_Y^¥aaQY_
@HWI-EAS443:3:62:248:1288#0/1
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+HWI-EAS443:3:62:248:1288#0/1
aaaaaaaaa]_aaaaaa^_`^aa_____``a`_¥^¥¥[PX_`
@HWI-EAS443:3:68:1166:869#0/1
AGTCCTTCGTCCATTTTCACCCCTCCAGAAATTTTCGGTCA
+HWI-EAS443:3:68:1166:869#0/1
^YX¥a`abb]_aab`abYa_¥[`]`ZRJRT_WY_`ZZ]N_W
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+HWI-EAS443:3:87:1716:1052#0/1
ab^V^baab`¥W_baa`¥a_]^^_] []a^a__`_^¥_^`
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+HWI-EAS443:3:100:1758:93#0/1
ab¥¥a`K]N]bbba^aba[[a`^PabbRbb_a`Y_^]S[b
@HWI-EAS443:3:10:1003:669#0/1
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+HWI-EAS443:3:10:1003:669#0/1
a^`_^aa_a[_`a_aaaa]_`Z[`a`V^a`^`_aaa__`_`
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+HWI-EAS443:3:10:967:1147#0/1
a]]]aTY`_a^a_```][`a_Z^`[_``_aVa]V¥N^Y[X
@HWI-EAS443:3:11:1100:317#0/1
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+HWI-EAS443:3:11:1100:317#0/1
aa`ba`aabYIR]aa^]ab]]aaaQ0`^[SaaS¥Y_]_`
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+HWI-EAS443:3:11:1648:394#0/1
a`]]`aa]_aaaa¥]_a`¥^RVX¥Z]^_S_a_V``¥^Y[VS
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+HWI-EAS443:3:11:404:1467#0/1
a_aaaXN^^`_[aa___X``aY_¥_Z¥T¥`^Z`^_]Q`XZ
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+HWI-EAS443:3:12:795:308#0/1
a[b_UR]``^XY[^_a`aa]Y[]`_]_ZR]]aZ_T[UYTX
@HWI-EAS443:3:12:906:27#0/1
GACGGAAGTGGATGAGAGA ACTCATCCTTTATGACAAAG
+HWI-EAS443:3:12:906:27#0/1
aa`bb`a`a^aa^aa_aYa^^_Y]^¥W[S^[]^[]YZ]
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+HWI-EAS443:3:13:307:1597#0/1
]aa¥¥`_¥b```_^Z¥`Z]`aaabb```^``aaa`aaaa
@HWI-EAS443:3:13:311:785#0/1
TCCTTCGTCATTTTCACCCCTCCAGAAATTTCTGGTCATT
+HWI-EAS443:3:13:311:785#0/1
[b^XZ`b¥a^[[ab`_bW` `b`W`]aZXY¥]]a^RJOW__
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GTGGAATCAATGACCGAAATTTCTGGAGGGGTGAAAATGG
+HWI-EAS443:3:14:1191:304#0/1
a^b`^`__`^`_^^`a^_]`_]a`_Y`^`_Y`X¥VW^^]
@HWI-EAS443:3:14:1407:1420#0/1
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+HWI-EAS443:3:14:1407:1420#0/1
]a`ab`¥¥¥`^YZ^_Va¥WY``¥^V¥¥V``^]_XN¥[aW`

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+HWI-EAS443:3:14:152:1028#0/1
a`aa`aaaa`aa`^`_¥a` []^^]__`]_____¥a]`_^
@HWI-EAS443:3:14:380:837#0/1
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+HWI-EAS443:3:14:380:837#0/1
ab_` `abaababaabaaa]¥^`aabba`aa`aYa]ZL__a
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CACCCCTCCAGAAATTTCTGGTCATTGATTCCACGTTTGAT
+HWI-EAS443:3:14:636:102#0/1
aaaaW] [_ZZ^YLRT¥^] [UYTPTW]]OWZZ^R¥X]WZUX
@HWI-EAS443:3:14:917:1969#0/1
CAGAAATTTCTGGTCATTGATTCCACGTTTGATCATTCTGA
+HWI-EAS443:3:14:917:1969#0/1
aa_a`]_ [X`a_^¥_ZT]_]Xa]___PU_`^¥a¥XX^^_
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@HWI-EAS443:3:15:760:1195#0/1
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+HWI-EAS443:3:15:760:1195#0/1
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@HWI-EAS443:3:15:767:546#0/1
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+HWI-EAS443:3:15:767:546#0/1
a`abbaa_U`abaa]aab`bab` ``^aVa`Pa]a` `a` ``
@HWI-EAS443:3:16:1184:1608#0/1
CAGAATGATCAAACGTGGAATCAATGACCGAAATTTCTGG
+HWI-EAS443:3:16:1184:1608#0/1
J¥_WWTaZ_Vb_[Xa[¥`YQY_aaaLa`a^baUZaX`_b`
@HWI-EAS443:3:16:1413:411#0/1
AATCAATGACCGAAATTTCTGGAGGGGTGAAAATGGACGA
+HWI-EAS443:3:16:1413:411#0/1
abb]]]``_Z`_` `abaaaaaaaaaaaWbY]]]aaa¥OZ¥
@HWI-EAS443:3:16:1660:705#0/1
CGTGAATCAATGACCGAAATTTCTGGAGGGGTGAAAATG
+HWI-EAS443:3:16:1660:705#0/1
Va_` `¥a^a` ``¥S_Z`aaaa`^_a^^[_R_RIU]ZaJ_a
@HWI-EAS443:3:16:471:630#0/1
GAATGATCAAACGTGGAATCAATGACCGAAATTTCTGGAG
+HWI-EAS443:3:16:471:630#0/1
aaaaaa` `aaaaXa`¥`_a_]`^` `` `a`_`_`^^]`^^
@HWI-EAS443:3:16:639:254#0/1
TTGTCCTTCGTCCATTTTCACCCCTCCAGAAATTTCTGGTC
+HWI-EAS443:3:16:639:254#0/1
Z]aZ`a_bb]¥YaU¥a_ZYa__aYT`]aa^[_a^` ``_0_
@HWI-EAS443:3:17:1256:555#0/1
AATGACCGAAATTTCTGGAGGGGTGAAAATGGACGAAGGA

+HWI-EAS443:3:17:1256:555#0/1
aaZ]_aabb¥P¥baa^¥` [aaaaWaZ[_Xa`_^Za[[`_^
@HWI-EAS443:3:17:1644:645#0/1
CTTGTCTTCGTCCATTTTCACCCCTCCAGAAATTTCTGGT
+HWI-EAS443:3:17:1644:645#0/1
abbbZ^abb`aa_aaabbb`aaV__`a`a`XU_a_VT]]
@HWI-EAS443:3:17:269:1679#0/1
GATCAAACGTGGAATCAATGACCGAAATTTCTGGAGGGGT
+HWI-EAS443:3:17:269:1679#0/1
]S`babb__Ya`bbaaaaaabba`b_aaaaa[]`a`Y
@HWI-EAS443:3:17:396:216#0/1
GATCAAACGTGGAATCAATGACCGAAATTTCTGGAGGGGT
+HWI-EAS443:3:17:396:216#0/1
a)`a__X^aS]a____[Y^`_a^[¥¥[a__Y_a]]`____0
@HWI-EAS443:3:18:1130:1178#0/1
TCAGAATGATCAAACGTGGAATCAATGACCGAAATTTCTG
+HWI-EAS443:3:18:1130:1178#0/1
aabba¥aba]aba^aa_baaaba^aa^]aZ^aaaa`Yaa
@HWI-EAS443:3:18:1183:1666#0/1
GTTAATCAGAATGATCAAACGTGGAATCAATGACCGAAAT
+HWI-EAS443:3:18:1183:1666#0/1
`O_¥a`TX`PF¥X0__YX_TTZ¥^ZXHHSYXYRSX[MW
@HWI-EAS443:3:18:1459:1145#0/1
GTGGAATCAATGACCGAAATTTCTGGAGGGGTGAAAATGG
+HWI-EAS443:3:18:1459:1145#0/1
a__baaba]JVba^ab`XQ[aXZ]a`YaaY^HaVG[T¥_Z
@HWI-EAS443:3:18:38:529#0/1
ATGACCGAAATTTCTGGAGGGGTGAAAATGGACGAAGGAC
+HWI-EAS443:3:18:38:529#0/1
ab_`ba^`baabab_VaaaaXa[]Z_aaa`a__a_[^
@HWI-EAS443:3:19:1325:1416#0/1
CCTTGTCTTCGTCCATTTTCACCCCTCCAGAAATTTCTGG
+HWI-EAS443:3:19:1325:1416#0/1
abaaa[¥[VY^b¥ababZaaaaZ`¥aaaa`a____`__¥`Z
@HWI-EAS443:3:19:258:1620#0/1
AATGACCGAAATTTCTGGAGGGGTGAAAATGGACGAAGGA
+HWI-EAS443:3:19:258:1620#0/1
a`aabaaa`ba`aaaba`a_XL[_aaa__^a_aa_^Za
@HWI-EAS443:3:19:830:1553#0/1
GTGGAATCAATGACCGAAATTTCTGGAGGGGTGAAAATGG
+HWI-EAS443:3:19:830:1553#0/1
aT`_`_a_^`__`_`V¥X_____`T^]VZR^Y]X^]^^
@HWI-EAS443:3:1:1386:856#0/1
CAAACGTGGAATCAATGACCGAAATTTCTGGAGGGGTGAA
+HWI-EAS443:3:1:1386:856#0/1
aaaa¥]abbabbaabaaWVabaaaba_aa`_ba_aV`aB
@HWI-EAS443:3:1:1443:788#0/1
GAATGATCAAACGTGGAATCAATGACCGAAATTTCTGGAG
+HWI-EAS443:3:1:1443:788#0/1
^Ya^¥¥Y_ba][a`]T¥`aa__abXU^aa]^a`]Ra`aBB

@HWI-EAS443:3:1:1723:2031#0/1
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+HWI-EAS443:3:1:1723:2031#0/1
K]¥`aL_Y_W]¥_a¥a^_a^`^¥bRHK`_`aV^`UDTB
@HWI-EAS443:3:1:616:714#0/1
CAAACGTGGAATCAATGACCGAAATTTCTGGAGGGGTGAA
+HWI-EAS443:3:1:616:714#0/1
aaa][Vaa`_`^¥Zaa`__`Z`_`a_a]a`[[¥b_a¥_BB
@HWI-EAS443:3:20:752:1642#0/1
ATCAGAATGATCAAACGTGGAATCAATGACCGAAATTTCT
+HWI-EAS443:3:20:752:1642#0/1
_bb¥YY`^Xa`a_a`a¥[`¥`_aaV__a¥a¥]a`_^`
@HWI-EAS443:3:21:1176:1261#0/1
CCCTCCAGAAATTTTCGGTCATTGATTCCACGTTTGATCAT
+HWI-EAS443:3:21:1176:1261#0/1
a`a¥baX[^`ab`Y`^bYaaa[U¥aa`_aZ`Yaaa`aaa
@HWI-EAS443:3:23:1016:1644#0/1
GTGGAATCAATGACCGAAATTTCTGGAGGGGTGAAAATGG
+HWI-EAS443:3:23:1016:1644#0/1
`W]^`^`a__`^`a`[]^¥a^_T__Y_a]^R¥ZW^X[Z
@HWI-EAS443:3:23:1146:1849#0/1
CACCCCTCCAGAAATTTTCGGTCATTGATTCCACGTTTGAT
+HWI-EAS443:3:23:1146:1849#0/1
aaab_aababbbaa`aaaab¥^a`aa`a`_a```]`b____
@HWI-EAS443:3:23:714:909#0/1
ACCGAAATTTCTGGAGGGGTGAAAATGGACGAAGGACAAG
+HWI-EAS443:3:23:714:909#0/1
ababa]_aaaaaaa_aaaa]a`_`_`a^aaa_^____^_^_
@HWI-EAS443:3:23:798:1728#0/1
CTTGTCTTCGTCATTTTCACCCCTCCAGAAATTTTCGGT
+HWI-EAS443:3:23:798:1728#0/1
``_`_ab`aTGYaa`aa`a^a_UY[`a_^]a`Z_^____Y
@HWI-EAS443:3:24:1405:1725#0/1
CATTTTCCACCCCTCCAGAAATTTTCGGTCATTGATTCCACG
+HWI-EAS443:3:24:1405:1725#0/1
aab¥baab_M`ba`_¥`]_[Q]_aa[Wb_a`IYa^`_a]_
@HWI-EAS443:3:24:184:662#0/1
CCTTCGTCCATTTTCACCCCTCCAGAAATTTTCGGTCATTG
+HWI-EAS443:3:24:184:662#0/1
R_[V¥T_¥_T¥`_`^¥X¥YYZW_X_]_XW¥XX_T_U¥V_T^
@HWI-EAS443:3:24:18:558#0/1
CAATGACCGAAATTTCTGGAGGGGTGAAAATGGACGAAGG
+HWI-EAS443:3:24:18:558#0/1
abb`_`abbbaa`baaabbb^aaaa_a]``aa_[`^`]^a_
@HWI-EAS443:3:24:302:800#0/1
CAAACGTGGAATCAATGACCGAAATTTCTGGAGGGGTGAA
+HWI-EAS443:3:24:302:800#0/1
aa_]`^X]]]aa]YZ`[¥`^UTQ^a`aaUTJ^UaUPUPN
@HWI-EAS443:3:24:960:1631#0/1
CACCCCTCCAGAAATTTTCGGTCATTGATTCCACGTTTGAT

+HWI-EAS443:3:24:960:1631#0/1
a^`YVQ`a`_#b#RVVX_QZPXQ]a_W_aaa[ZNXa^
@HWI-EAS443:3:25:1176:527#0/1
CACCCCTCCAGAAATTTTCGGTCATTGATTCCACGTTTGAT
+HWI-EAS443:3:25:1176:527#0/1
^abbabbbb`b`^abba#`aabbabbbb`ab^b`bbbaa
@HWI-EAS443:3:25:1498:1662#0/1
CGTGAATCAATGACCGAAATTTCTGGAGGGGTGAAAATG
+HWI-EAS443:3:25:1498:1662#0/1
S__`bba^a#^#babab[ba`bbaba#^a`_aYbaa`aW`
@HWI-EAS443:3:25:59:720#0/1
CACCCCTCCAGAAATTTTCGGTCATTGATTCCACGTTTGAT
+HWI-EAS443:3:25:59:720#0/1
abbabaaab`a`aaaaa_a]a``_____a_`]_^_#
@HWI-EAS443:3:26:1637:945#0/1
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+HWI-EAS443:3:26:1637:945#0/1
a`#Zbbbabab_bab_baabb]aabaa^Za`baaa`abba
@HWI-EAS443:3:27:1306:1856#0/1
CAAACGTGAATCAATGACCGAAATTTCTGGAGGGGTGAA
+HWI-EAS443:3:27:1306:1856#0/1
aab]aa[_S`bab`a`a`_abaa^ba`^a_a`]a``Ga`^
@HWI-EAS443:3:27:1443:513#0/1
CAAACGTGAATCAATGACCGAAATTTCTGGAGGGGTGAA
+HWI-EAS443:3:27:1443:513#0/1
aa_bZb`bbabbaabaa]aba^Ua__]bbaTabbaVb^#
@HWI-EAS443:3:27:1615:384#0/1
CAAACGTGAATCAATGACCGAAATTTCTGGAGGGGTGAA
+HWI-EAS443:3:27:1615:384#0/1
aaba`bbbabbb`bbbbbaabbbabbbabaaababa_aab
@HWI-EAS443:3:27:569:1339#0/1
AAACGTGAATCAATGACCGAAATTTCTGGAGGGGTGAAA
+HWI-EAS443:3:27:569:1339#0/1
W#^a_VU__bab]]_]`b_]`Z^`^]aa]_#^a_T_a^^
@HWI-EAS443:3:28:1429:525#0/1
AACGTGAATCAATGACCGAAATTTCTGGAGGGGTGAAAA
+HWI-EAS443:3:28:1429:525#0/1
aaababababaaabbaaabaabba_bbb`bbaa_b`````
@HWI-EAS443:3:29:1567:1359#0/1
GAAATTTTCGGTCATTGATTCCACGTTTGATCATTCTGATT
+HWI-EAS443:3:29:1567:1359#0/1
_a[a_aabaa^aba]`aa`_a_a`aaa^aa`aaa`aaaa
@HWI-EAS443:3:2:1085:1769#0/1
GACGAAAGTGGATGAGAGAACTCATCCTTTATGACAAAG
+HWI-EAS443:3:2:1085:1769#0/1
`]_^`^`aab_ba`ab`ab_]OY]X`]_W_[[_a_Z_]W_
@HWI-EAS443:3:2:1347:90#0/1
GACGAAAGTGGATGAGAGAACTCATCCTTTATGACAAAG
+HWI-EAS443:3:2:1347:90#0/1
a^]a`]^`]^`^[_Z_^^UW[^^[Y[^YVZ][[Y[YB

@HWI-EAS443:3:2:396:1653#0/1
ATCAGAATGATCAAACGTGGAATCAATGACCGAAATTTCT
+HWI-EAS443:3:2:396:1653#0/1
a^aaa]S[a`_]YZ_I0¥]¥^_0_^¥FFa[¥_Y^YH[
@HWI-EAS443:3:30:1192:1385#0/1
ATTTTCACCCCTCCAGAAATTTTCGGTCATTGATTCCACGT
+HWI-EAS443:3:30:1192:1385#0/1
`abb`aaaaaaaa`aa`a`a`Z`a`__a_]`Z__
@HWI-EAS443:3:30:1496:255#0/1
ATCAAACGTGGAATCAATGACCGAAATTTCTGGAGGGGTG
+HWI-EAS443:3:30:1496:255#0/1
`^[_aaa`Uab`b`aa¥^^ab^a^][^V`aa_a_aaZa
@HWI-EAS443:3:30:1745:1277#0/1
GACGGAAAGTGGATGAGAGAACTCATCCTTTATGACAAAG
+HWI-EAS443:3:30:1745:1277#0/1
^Za_[YOY][__`]¥QWWZTW]UPR¥Z```¥UZTRPWZ^
@HWI-EAS443:3:30:196:82#0/1
ATCAGAATGATCAAACGTGGAATCAATGACCGAAATTTCT
+HWI-EAS443:3:30:196:82#0/1
`abaa_aaa`aa]^_a^aZ`_^_a_]`_`][J^Z^Y`
@HWI-EAS443:3:30:252:44#0/1
CCTTCGTCCATTTTCACCCCTCCAGAAATTTTCGGTCATTG
+HWI-EAS443:3:30:252:44#0/1
`abaaaabababbabbaaba`aaa]`aaa`aa_^`__^
@HWI-EAS443:3:31:1131:270#0/1
GAAATTTTCGGTCATTGATTCCACGTTTGATCATTCTGATT
+HWI-EAS443:3:31:1131:270#0/1
a^aaa____[¥S`^[PIR[ZVRVX_Y^`[U[¥XZ_]`^YSY[
@HWI-EAS443:3:31:207:1001#0/1
ATCAGAATGATCAAACGTGGAATCAATGACCGAAATTTCT
+HWI-EAS443:3:31:207:1001#0/1
aa``aaa^a`[`aa`¥¥][`a`a`]Y`````^^`
@HWI-EAS443:3:31:507:868#0/1
CTCCAGAAATTTTCGGTCATTGATTCCACGTTTGATCATT
+HWI-EAS443:3:31:507:868#0/1
aa^aY``a]aaaa`_a`¥[aY`Sa^^[_^]___][Y]
@HWI-EAS443:3:32:1589:515#0/1
GTGGAATCAATGACCGAAATTTTCGGAGGGGTGAAAATGG
+HWI-EAS443:3:32:1589:515#0/1
a[X`aa__`a]_W^X]]]¥U]_]U]__YN]UUX_^_^
@HWI-EAS443:3:32:259:571#0/1
AATCAATGACCGAAATTTTCGGAGGGGTGAAAATGGACGA
+HWI-EAS443:3:32:259:571#0/1
aaa_aUb]^aaa`a^a]aaaa^[a`[`X_X^^``Y]^`^
@HWI-EAS443:3:32:577:606#0/1
CACCCCTCCAGAAATTTTCGGTCATTGATTCCACGTTTGAT
+HWI-EAS443:3:32:577:606#0/1
ababbbaaaU`ba]baa`a`_[a`____a__a]RT_]S[^
@HWI-EAS443:3:32:959:1703#0/1
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+HWI-EAS443:3:32:959:1703#0/1
abaaaaaaaa`aaa`aa__`_X`_^_a`_`_]__X^^_
@HWI-EAS443:3:33:1204:1632#0/1
ATTTTCACCCCTCCAGAAATTTTCGGTCATTGATTCCACGT
+HWI-EAS443:3:33:1204:1632#0/1
aaaaaaaa_]`aaaa]a`]^`W_WX_]`^PLVNT_Z]N
@HWI-EAS443:3:33:1637:928#0/1
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+HWI-EAS443:3:33:1637:928#0/1
a``abb`aab`bbbabb`bbaa_bZ]^`a_W`]a_U^[
@HWI-EAS443:3:33:1702:70#0/1
CTTCGTCCATTTTCACCCCTCCAGAAATTTTCGGTCATTGA
+HWI-EAS443:3:33:1702:70#0/1
XabXa`aVbbbbbbK___aabbabbbbbbaaWOTS^abV^
@HWI-EAS443:3:33:35:1881#0/1
CCTTCGTCCATTTTCACCCCTCCAGAAATTTTCGGTCATTG
+HWI-EAS443:3:33:35:1881#0/1
aba_ba_bbaaa`abaabaaZa_TNZU]_]`YSV_]YU
@HWI-EAS443:3:35:1239:296#0/1
CACCCCTCCAGAAATTTTCGGTCATTGATTCCACGTTTGAT
+HWI-EAS443:3:35:1239:296#0/1
a`^^`a`a`¥aY[[a^[`]YZ]^`_]^^`__^_]`RQ
@HWI-EAS443:3:35:1622:1357#0/1
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+HWI-EAS443:3:35:1622:1357#0/1
ababbaababbabbaabb`_ba_YMV]I^abbYaYa__W[
@HWI-EAS443:3:35:37:741#0/1
CAATGACCGAAATTTCTGGAGGGGTGAAAATGGACGAAGG
+HWI-EAS443:3:35:37:741#0/1
a`]aa]aab]UU¥aabaab_aaaa[b_^[Uaa_Y]aZH¥_
@HWI-EAS443:3:35:856:1689#0/1
AATGATCAAACGTGGAATCAATGACCGAAATTTCTGGAGG
+HWI-EAS443:3:35:856:1689#0/1
a_`aa`aa^b¥_KP¥_`a^]`S`Y^^¥_NW_[_¥0_XX
@HWI-EAS443:3:35:951:1582#0/1
GTGGAATCAATGACCGAAATTTCTGGAGGGGTGAAAATGG
+HWI-EAS443:3:35:951:1582#0/1
a`aaaa`aaba_]aaaa`aaaa`a_`a_^Z]aa```]X
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+HWI-EAS443:3:36:270:1576#0/1
aaabb`baV]a_`a__a__Ya_]UW^^a__X^Z^`^_]`
@HWI-EAS443:3:36:347:2007#0/1
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+HWI-EAS443:3:36:347:2007#0/1
a]¥aaW^bb_^]abb`b_]ba`aaaa^aYa`Y¥]Q_a`a¥
@HWI-EAS443:3:36:507:829#0/1
TAATCAGAATGATCAAACGTGGAATCAATGACCGAAATTT
+HWI-EAS443:3:36:507:829#0/1
aababa^YW]a_¥`aa`aYa````^aZa]Y]__R]G[`Y

@HWI-EAS443:3:37:1035:536#0/1
CAATGACCGAAATTTCTGGAGGGGTGAAAATGGACGAAGG
+HWI-EAS443:3:37:1035:536#0/1
abbbbaa^_^`babbbbaab`bb_b`]XUaba`aba_bY
@HWI-EAS443:3:38:1251:1249#0/1
GTGGAATCAATGACCGAAATTTCTGGAGGGGTGAAAATGG
+HWI-EAS443:3:38:1251:1249#0/1
a____`a^`^`^`____a[_`_`a_a`X[[aUTP]]^]]_U
@HWI-EAS443:3:38:330:1708#0/1
CAGAAATTTTCGGTCATTGATTCCACGTTTGATCATTCTGA
+HWI-EAS443:3:38:330:1708#0/1
V`^`Z]RO[a^SaV_VYVSaPYW¥VUTZ^JHU_]¥PaW_¥
@HWI-EAS443:3:38:766:2035#0/1
CAAACGTGGAATCAATGACCGAAATTTCTGGAGGGGTGAA
+HWI-EAS443:3:38:766:2035#0/1
^Vb`aa[aabb[baabbab]aaba_ab_a]a__a[[_^U
@HWI-EAS443:3:39:1268:1964#0/1
CCTTCGTCCATTTTCACCCCTCCAGAAATTTTCGGTCATTG
+HWI-EAS443:3:39:1268:1964#0/1
a_bbbb`baaabaaba`X^_ba`ab`aaa]X`¥TYR]_X
@HWI-EAS443:3:39:1495:826#0/1
CAGAATGATCAAACGTGGAATCAATGACCGAAATTTCTGG
+HWI-EAS443:3:39:1495:826#0/1
aabbabb^bbbb`ab^bababababaaa`baZ`aaa^aaX
@HWI-EAS443:3:39:704:1254#0/1
GACGGAAAGTGGATGAGAGAACTCATCCTTTATGACAAAG
+HWI-EAS443:3:39:704:1254#0/1
aaaa¥]]^XP_]U^_YX[ZZ^__^_^]^`_]^[`]^_]`
@HWI-EAS443:3:39:750:688#0/1
CACCCCTCCAGAAATTTTCGGTCATTGATTCCACGTTTGAT
+HWI-EAS443:3:39:750:688#0/1
aaaa`__`a`Z_Z]]__`]^]T`^`Z`[¥`__¥ZZZ]U[YU
@HWI-EAS443:3:3:1134:1382#0/1
GTTAATCAGAATGATCAAACGTGGAATCAATGACCGAAAT
+HWI-EAS443:3:3:1134:1382#0/1
`0`U`_`X¥¥Y]Z¥QL_]VL^_aa^^^PHGWMHSU_PMBB
@HWI-EAS443:3:3:1375:636#0/1
CAATGACCGAAATTTCTGGAGGGGTGAAAATGGACGAAGG
+HWI-EAS443:3:3:1375:636#0/1
aab`a`aab`a_aaaV`a`X^^a_Ta_a^`a`_`a__`Y
@HWI-EAS443:3:3:517:1843#0/1
ATCAGAATGATCAAACGTGGAATCAATGACCGAAATTTCT
+HWI-EAS443:3:3:517:1843#0/1
a_^aa`a]a`a^`a`Z¥¥__]a__a^____]W__X_`X]UB
@HWI-EAS443:3:40:1208:594#0/1
CTCCAGAAATTTTCGGTCATTGATTCCACGTTTGATCATTC
+HWI-EAS443:3:40:1208:594#0/1
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AATCAATGACCGAAATTTCTGGAGGGGTGAAAATGGACGA

+HWI-EAS443:3:40:494:661#0/1
abbaabaaababaa_aabbbba_aba^[a`aa`a_[a``
@HWI-EAS443:3:40:70:1101#0/1
CCTTCGTCCATTTTCACCCCTCCAGAAATTTTCGGTCATTG
+HWI-EAS443:3:40:70:1101#0/1
SaY`a[FZ`__`¥Zaa¥`aa0Z¥XXPDNQW^a_X¥YDVX¥
@HWI-EAS443:3:44:1456:194#0/1
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+HWI-EAS443:3:44:1456:194#0/1
a^`a_¥S`a`^`T[a__X]T[_^^^`_`_^Xa]¥]^^^¥_
@HWI-EAS443:3:44:1653:1143#0/1
CACCCCTCCAGAAATTTTCGGTCATTGATTCCACGTTTGAT
+HWI-EAS443:3:44:1653:1143#0/1
a]¥aa¥aR]OLQ¥P¥`SQSDHNWWRWM]^]SOQ^YWTVUT
@HWI-EAS443:3:44:544:346#0/1
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+HWI-EAS443:3:44:544:346#0/1
aa^aaaaaaaaa_a`_]_a¥a^[^`^_]_^X]Z^^_^]V
@HWI-EAS443:3:44:595:1532#0/1
AATCAATGACCGAAATTTCTGGAGGGGTGAAAATGGACGA
+HWI-EAS443:3:44:595:1532#0/1
_S`a0_QW_Y_`ba`ZYa[aaZPDTJa^W_a_ZR`]RZ
@HWI-EAS443:3:44:68:503#0/1
CAATGACCGAAATTTCTGGAGGGGTGAAAATGGACGAAGG
+HWI-EAS443:3:44:68:503#0/1
ab]`_abbb_aabbbbbbb`bbba[baaaabbaa_b`_a^
@HWI-EAS443:3:46:1011:801#0/1
ATTTTCACCCCTCCAGAAATTTTCGGTCATTGATTCCACGT
+HWI-EAS443:3:46:1011:801#0/1
_`abaa_aaaaaa]¥`]Z`baaa__W``]a`[aa_[a^a_
@HWI-EAS443:3:46:1732:285#0/1
GTTAATCAGAATGATCAAACGTGGAATCAATGACCGAAAT
+HWI-EAS443:3:46:1732:285#0/1
aaa^Za_[`][^`__`___¥]Ya`]¥^Z^___Z[Z^[]Y[
@HWI-EAS443:3:47:1092:1122#0/1
CAATGACCGAAATTTCTGGAGGGGTGAAAATGGACGAAGG
+HWI-EAS443:3:47:1092:1122#0/1
¥_abbbbbbbbaabababababbba`baabaabbaabaaba
@HWI-EAS443:3:47:252:667#0/1
TCAGAATGATCAAACGTGGAATCAATGACCGAAATTTCTG
+HWI-EAS443:3:47:252:667#0/1
aaa^]aaaaaa`_`a_b```a^`[a`_]a^^`a`_^`_
@HWI-EAS443:3:48:246:301#0/1
CCTTGTCCTTCGTCCATTTTCACCCCTCCAGAAATTTTCGG
+HWI-EAS443:3:48:246:301#0/1
abbb_ababbaa`aS`abbbaa`X^`_a`aa`a¥a_a``[
@HWI-EAS443:3:48:293:2035#0/1
TAGACGGAAAGTGGATGAGAGAACTCATCCTTTATGACAA
+HWI-EAS443:3:48:293:2035#0/1
aaa_]a_Z¥``^KI]_aa_YZ¥¥_a^W_[_]`_X]W]^

@HWI-EAS443:3:48:817:232#0/1
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+HWI-EAS443:3:48:817:232#0/1
`baa`babaabbaabbbbaabaa`baa^bba`aaa_^a_]
@HWI-EAS443:3:4:1361:738#0/1
GACGGAAAGTGGATGAGAGAATCATCCTTTATGACAAAG
+HWI-EAS443:3:4:1361:738#0/1
a¥abaaabbWbb]aaaa_b_a_^]_a]X^^__aa_^`_]a
@HWI-EAS443:3:4:1595:1402#0/1
AATCAATGACCGAAATTTCTGGAGGGGTGAAAATGGACGA
+HWI-EAS443:3:4:1595:1402#0/1
_aa[a¥V_aIRb`aaaa`aa^]_aa`Za^¥G`aa_]GY_
@HWI-EAS443:3:4:1740:1307#0/1
AAACGTGGAATCAATGACCGAAATTTCTGGAGGGGTGAAA
+HWI-EAS443:3:4:1740:1307#0/1
[W^aaaa]aaWX`^`U^]``aZX¥_a`_aU__Wa^Z]
@HWI-EAS443:3:4:790:1017#0/1
TCAAACGTGGAATCAATGACCGAAATTTCTGGAGGGGTGA
+HWI-EAS443:3:4:790:1017#0/1
__baba_0^[]]aa]_`_]_`a]`aa[_`aa]b_aa]a]
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+HWI-EAS443:3:50:122:84#0/1
Wbbbbbb]babbbbbbb``abbbbbbabbbbbbb_]b[abb
@HWI-EAS443:3:50:1375:409#0/1
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+HWI-EAS443:3:50:1375:409#0/1
abababbabbaaababbaaaaaaaaa`bbb_abba_b`_`_
@HWI-EAS443:3:50:164:1329#0/1
GAATGATCAAACGTGGAATCAATGACCGAAATTTCTGGAG
+HWI-EAS443:3:50:164:1329#0/1
ab_`abb_baaabaa_^aa`a`_Ya`¥``a¥aa`aa]QZ`
@HWI-EAS443:3:50:227:285#0/1
GAATGATCAAACGTGGAATCAATGACCGAAATTTCTGGAG
+HWI-EAS443:3:50:227:285#0/1
abbababbaababaabbaa`aabaaaaabaaaa_bb¥`a
@HWI-EAS443:3:50:474:1397#0/1
GAATGATCAAACGTGGAATCAATGACCGAAATTTCTGGAG
+HWI-EAS443:3:50:474:1397#0/1
^^`baa`__V^bRba`aa__a^Yaa^`aabaa_aa`Ya
@HWI-EAS443:3:50:603:1687#0/1
TGTCCTTCGTCCATTTTCACCCCTCCAGAAATTTCTGGTCA
+HWI-EAS443:3:50:603:1687#0/1
[YF[a¥baaX¥J^a`aab^¥¥[]TGXa]T^__a`[_`Z^_
@HWI-EAS443:3:51:1332:795#0/1
GAATGATCAAACGTGGAATCAATGACCGAAATTTCTGGAG
+HWI-EAS443:3:51:1332:795#0/1
a`^RX_`ZY`X`¥]^`¥`a_`^Y__b_[]`a`[]aUPa
@HWI-EAS443:3:51:1351:866#0/1
GAAATTTCTGGTCAATTGATTCCACGTTTGATCATTCTGATT

+HWI-EAS443:3:51:1351:866#0/1
aaa`aba]a`X]a^a`[``¥P^T¥S]]TTQRa_Q`YW``
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ATCAAACGTGGAATCAATGACCGAAATTTCTGGAGGGGTG
+HWI-EAS443:3:51:1618:467#0/1
[ba]aaab_aabaaR_ab_]Yaaaaaba_aaa]aa`_0a
@HWI-EAS443:3:52:1077:136#0/1
GAAATTTCTGGTCATTGATTCCACGTTTGATCATTCTGATT
+HWI-EAS443:3:52:1077:136#0/1
Y_]X`ab`UU]¥Z`Zba__`WVTaa`P]X^]XM`XW¥a`
@HWI-EAS443:3:52:1157:490#0/1
CTTGTCCTTCGTCCATTTTCACCCCTCCAGAAATTTCTGGT
+HWI-EAS443:3:52:1157:490#0/1
abbbbaabb_b^a`bbbaaa`a`_a_a[a^`_a_a]____
@HWI-EAS443:3:52:116:61#0/1
GAAATTTCTGGTCATTGATTCCACGTTTGATCATTCTGATT
+HWI-EAS443:3:52:116:61#0/1
a__^aa_____ZY^a_^]_^^[^W_[^__[[RXVHM]^[]]
@HWI-EAS443:3:52:243:614#0/1
GTCCATTTTCACCCCTCCAGAAATTTCTGGTCATTGATTCC
+HWI-EAS443:3:52:243:614#0/1
W`¥[¥a`¥a^]YW¥¥¥UZVQ[^YXZ]WT]TV[ZUXZUZ
@HWI-EAS443:3:53:119:1623#0/1
AAACGTGGAATCAATGACCGAAATTTCTGGAGGGGTGAAA
+HWI-EAS443:3:53:119:1623#0/1
a_b_a_bb`abba]a^`a``aaaa`aaa^a`aaYa``_
@HWI-EAS443:3:53:1226:125#0/1
CACCCCTCCAGAAATTTCTGGTCATTGATTCCACGTTTGAT
+HWI-EAS443:3:53:1226:125#0/1
abaa[G_¥X¥bbXPab]Z^H¥aZ]bb]W_Z]YJZ[aa[XG
@HWI-EAS443:3:53:1342:52#0/1
GACGAAAGTGGATGAGAGA ACTCATCCTTTATGACAAAG
+HWI-EAS443:3:53:1342:52#0/1
aaX_b`bbbabb`baaa^^Za]a^aa]Qaba_aa__^`]^
@HWI-EAS443:3:53:1715:1319#0/1
CAATGACCGAAATTTCTGGAGGGGTGAAAATGGACGAAGG
+HWI-EAS443:3:53:1715:1319#0/1
abbbababbbbbbabbababb^baabbba`b`baab_
@HWI-EAS443:3:53:366:112#0/1
CAATGACCGAAATTTCTGGAGGGGTGAAAATGGACGAAGG
+HWI-EAS443:3:53:366:112#0/1
ababaababababbbabb_bbbb^ba`aabab`_b`ab_
@HWI-EAS443:3:53:391:1083#0/1
CACCCCTCCAGAAATTTCTGGTCATTGATTCCACGTTTGAT
+HWI-EAS443:3:53:391:1083#0/1
abb]_`_baaaZ_V]ababa^^aaa`Y]`_``aa``^`_^
@HWI-EAS443:3:54:205:280#0/1
GTGGAATCAATGACCGAAATTTCTGGAGGGGTGAAAATGG
+HWI-EAS443:3:54:205:280#0/1
¥Vba_`ab][X_[_^a]a^Z¥^[YQR[[aa_VaZXX_P`^

@HWI-EAS443:3:54:244:297#0/1
CGTGGAATCAATGACCGAAATTTCTGGAGGGGTGAAAATG
+HWI-EAS443:3:54:244:297#0/1
ab_^`a_abaaaa[_`a^Y¥_a^a`a`Vb^aaVa_X]^_a
@HWI-EAS443:3:54:519:348#0/1
AGAATGATCAAACGTGGAATCAATGACCGAAATTTCTGGA
+HWI-EAS443:3:54:519:348#0/1
R_`^X`^`^b¥^a[RR`¥Z¥_¥[_`Y^`¥S]__W`a]X__]I
@HWI-EAS443:3:55:1432:733#0/1
ATCAATGACCGAAATTTCTGGAGGGGTGAAAATGGACGAA
+HWI-EAS443:3:55:1432:733#0/1
W__¥b^Z`a`a[`bba_bba`Wa]Z¥`baba`b[baa`a`
@HWI-EAS443:3:55:1461:904#0/1
GTCCATTTTCACCCCTCCAGAAATTTTCGGTCATTGATTCC
+HWI-EAS443:3:55:1461:904#0/1
a[`aabbaaaa`_]`_`a`a`_a_¥Z¥`][_aa__`^^Z
@HWI-EAS443:3:55:236:709#0/1
CACCCCTCCAGAAATTTTCGGTCATTGATTCCACGTTTGAT
+HWI-EAS443:3:55:236:709#0/1
abaaaa^`Uaaa`aaa`aa[aa_aa_aa_]aaa`a_```
@HWI-EAS443:3:55:854:641#0/1
CACCCCTCCAGAAATTTTCGGTCATTGATTCCACGTTTGAT
+HWI-EAS443:3:55:854:641#0/1
^a^^U_b_aabaabbabbb¥DW]b_aa¥^Q[_`a[a`Y^`
@HWI-EAS443:3:56:1667:139#0/1
CAAACGTGGAATCAATGACCGAAATTTCTGGAGGGGTGAA
+HWI-EAS443:3:56:1667:139#0/1
_V_aZ_abb_bbbabaUa````]Zab_U^_TUaZa]]__`
@HWI-EAS443:3:56:943:1023#0/1
ATCAGAATGATCAAACGTGGAATCAATGACCGAAATTTCT
+HWI-EAS443:3:56:943:1023#0/1
aaa^Z_aa^`aa_aa]XVa_`_`_¥aaS`a[__RZa__`
@HWI-EAS443:3:57:1124:1823#0/1
CAATGACCGAAATTTCTGGAGGGGTGAAAATGGACGAAGG
+HWI-EAS443:3:57:1124:1823#0/1
`a__bbb[aa]ba_`__bbba^^Sa`ba`bab_b^_bba
@HWI-EAS443:3:57:1643:188#0/1
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+HWI-EAS443:3:57:1643:188#0/1
aa_a]baa``[¥^[[¥^^^`__^_`]U^_XZ¥`^_W_¥QQ
@HWI-EAS443:3:57:479:1034#0/1
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+HWI-EAS443:3:57:479:1034#0/1
a[Za____^Xa[`aa^__`^¥^_^]_^UZXa^R[_`XZ_]`
@HWI-EAS443:3:57:877:1110#0/1
CCGAAATTTCTGGAGGGGTGAAAATGGACGAAGGACAAGG
+HWI-EAS443:3:57:877:1110#0/1
`_^_QYRQ¥J_SR¥]XT¥a[XPYV[_¥WNVLWQ^YSNPX¥]
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@HWI-EAS443:3:61:1051:1592#0/1
CTTCGTCCATTTTCACCCCTCCAGAAATTTTCGGTCATTGA
+HWI-EAS443:3:61:1051:1592#0/1
U¥^`bba`aa`b`bbb^bbbaYaa¥`_bb`aa^aaab`]
@HWI-EAS443:3:61:1143:1154#0/1
ATTTTCACCCCTCCAGAAATTTTCGGTCATTGATTCCACGT
+HWI-EAS443:3:61:1143:1154#0/1
abbbbbbbbaabaa_]_aaaba`aaa]aaaa```_Z[_Z¥¥
@HWI-EAS443:3:61:1174:1276#0/1
AATCAATGACCGAAATTTCTGGAGGGGTGAAAATGGACGA
+HWI-EAS443:3:61:1174:1276#0/1
abbbaabb^baba]abbaabb`S`aaaZa`^_]`aZ¥Z^^
@HWI-EAS443:3:61:566:244#0/1
CCCCTCCAGAAATTTTCGGTCATTGATTCCACGTTTGATCA
+HWI-EAS443:3:61:566:244#0/1
a]aaa``_aXS`aa``]aP[¥V^`Y¥]^]RYaWZOTSXSY
@HWI-EAS443:3:61:592:939#0/1
AATCAATGACCGAAATTTCTGGAGGGGTGAAAATGGACGA
+HWI-EAS443:3:61:592:939#0/1
_aba`]a`_abbaabaabba¥H]a``Taaa``_^^¥__^
@HWI-EAS443:3:61:781:1847#0/1
CACCCCTCCAGAAATTTTCGGTCATTGATTCCACGTTTGAT
+HWI-EAS443:3:61:781:1847#0/1
a]```][Zbbb^`]^[V¥ZUYa[Y]^W]ZJYTQG^P^XP
@HWI-EAS443:3:61:879:1785#0/1
CACCCCTCCAGAAATTTTCGGTCATTGATTCCACGTTTGAT
+HWI-EAS443:3:61:879:1785#0/1
aba¥TZaaa]a`_a`QRaWSXa`_[NTO_^_XTMU^XZZB
@HWI-EAS443:3:61:937:1374#0/1
GAATGATCAAACGTGGAATCAATGACCGAAATTTCTGGAG
+HWI-EAS443:3:61:937:1374#0/1
W]`a_X_`[[[MUMU_XTR_]Z__U`PZ]a```_`ZKLNL
@HWI-EAS443:3:62:1335:1131#0/1
CAATGACCGAAATTTCTGGAGGGGTGAAAATGGACGAAGG
+HWI-EAS443:3:62:1335:1131#0/1
^]J^SSa_0¥WWa¥Wa¥ba`aa``¥bTb````¥¥`_`bb__`
@HWI-EAS443:3:62:750:761#0/1
CACCCCTCCAGAAATTTTCGGTCATTGATTCCACGTTTGAT
+HWI-EAS443:3:62:750:761#0/1
a`bababbbbbbb_babbbbaababaaabbbabaaaaW`
@HWI-EAS443:3:62:961:730#0/1
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+HWI-EAS443:3:62:961:730#0/1
abbbbbbbbaabaabaa^`]aaaaba_]_aa`_aaZV^_^X
@HWI-EAS443:3:62:998:1273#0/1
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+HWI-EAS443:3:62:998:1273#0/1
aab^`_`aaaa_]Ta^`Y_aa`_`[Z]^[^`¥a`a____a
@HWI-EAS443:3:63:1004:1818#0/1
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+HWI-EAS443:3:63:1004:1818#0/1
a]Za]Ua]VZ`aba_aaba]Taaa]baaX^^a_a`BBBB
@HWI-EAS443:3:63:1237:1368#0/1
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+HWI-EAS443:3:63:1237:1368#0/1
Sa````YW_b`__baaba`¥¥`_Zaba¥a_¥YTYaU`aZ
@HWI-EAS443:3:63:626:450#0/1
CTTCGTCCATTTTCACCCCTCCAGAAATTTTCGGTCATTGA
+HWI-EAS443:3:63:626:450#0/1
abbbabbbbbbbbabbbbbbbbaZWbbbaab`aabb`
@HWI-EAS443:3:63:724:1482#0/1
GTTAATCAGAATGATCAAACGTGGAATCAATGACCGAAAT
+HWI-EAS443:3:63:724:1482#0/1
[I_U`abbb`_`aaaba^`^^Ya^`a``]```aa`^a_]`^
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CAGAATGATCAAACGTGGAATCAATGACCGAAATTTCTGG
+HWI-EAS443:3:64:1260:606#0/1
abba]^baaaaabba]bba_aaaabaaaa`^]_ba]baa
@HWI-EAS443:3:64:1510:834#0/1
AAACGTGGAATCAATGACCGAAATTTCTGGAGGGGTGAAA
+HWI-EAS443:3:64:1510:834#0/1
]a_bbR`bb`baaaa`aba`_`aabaaYab]^`aaa_a`_`_
@HWI-EAS443:3:65:1007:776#0/1
CCTTGTCTTCGTCCATTTTCACCCCTCCAGAAATTTTCGG
+HWI-EAS443:3:65:1007:776#0/1
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@HWI-EAS443:3:65:1010:835#0/1
CTTCGTCCATTTTCACCCCTCCAGAAATTTTCGGTCATTGA
+HWI-EAS443:3:65:1010:835#0/1
abba`[_¥X[[_bba]¥````^Z^bZW`b^W`THG¥a`^a
@HWI-EAS443:3:65:744:915#0/1
CAGAATGATCAAACGTGGAATCAATGACCGAAATTTCTGG
+HWI-EAS443:3:65:744:915#0/1
ab`aabbaaaaaab^a]^aaaaa``aaa]W]aa`aaa`
@HWI-EAS443:3:66:1332:913#0/1
CACCCCTCCAGAAATTTTCGGTCATTGATTCCACGTTTGAT
+HWI-EAS443:3:66:1332:913#0/1
aaabbbab`W^aba`aaaabZ[_aaa``aaaaa_^`_`^
@HWI-EAS443:3:66:929:1665#0/1
CCTTGTCTTCGTCCATTTTCACCCCTCCAGAAATTTTCGG
+HWI-EAS443:3:66:929:1665#0/1
abbb_aababaaaaaabaabbaa`a`ba¥^aaa```Y^Z
@HWI-EAS443:3:66:961:1427#0/1
CATTTTCACCCCTCCAGAAATTTTCGGTCATTGATTCCACG
+HWI-EAS443:3:66:961:1427#0/1
`Z]a``aaaaaZ^a`_`_`aZU]XZW`_`Z^Y`^`^_[YL
@HWI-EAS443:3:67:428:584#0/1
GAATGATCAAACGTGGAATCAATGACCGAAATTTCTGGAG
+HWI-EAS443:3:67:428:584#0/1
a`a`b^]baaVaa`bbJ^`a`a`a¥aaa_ZJ`_`aaa_Wa

@HWI-EAS443:3:68:1760:66#0/1
CCTTCGTCCATTTTCACCCCTCCAGAAATTTTCGGTCATTG
+HWI-EAS443:3:68:1760:66#0/1
`bbbb[^`a_bbaX`]^ [¥UaTWVS`a_b[^]^TQ]¥¥
@HWI-EAS443:3:68:224:441#0/1
CTCCAGAAATTTTCGGTCATTGATTCCACGTTTGATCATTCC
+HWI-EAS443:3:68:224:441#0/1
aa[bV[^XLX]_aX`S_a_]_^`[^aW]^_]TW[]_
@HWI-EAS443:3:69:158:223#0/1
CAGAAATTTTCGGTCATTGATTCCACGTTTGATCATTCTGA
+HWI-EAS443:3:69:158:223#0/1
`aa^aNaa_bab_aaa^`baa_abaa[a_JXaY]`_Zaaa
@HWI-EAS443:3:69:570:299#0/1
CAATGACCGAAATTTCTGGAGGGGTGAAAATGGACGAAGG
+HWI-EAS443:3:69:570:299#0/1
aabbb`abbabbaaaaaa_aaaUa__a``Y__a``^_
@HWI-EAS443:3:6:1244:1257#0/1
CCTTGTCTTCGTCCATTTTCACCCCTCCAGAAATTTTCGG
+HWI-EAS443:3:6:1244:1257#0/1
^bbaabZabb]bZ]]]¥aa__Y[P¥ab¥aaaaaa^_^UJ[
@HWI-EAS443:3:6:1255:1118#0/1
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+HWI-EAS443:3:6:1255:1118#0/1
`bbbaa¥aVXbbbb^bab_abbaZb¥`_aabbaSbaa__`
@HWI-EAS443:3:6:424:1221#0/1
CAAACGTGGAATCAATGACCGAAATTTCTGGAGGGGTGAA
+HWI-EAS443:3:6:424:1221#0/1
aa`VW_Q__¥aabV[a]aa¥VYa¥aa`_ab]Y`aaaXb]_
@HWI-EAS443:3:6:607:287#0/1
GTCCATTTTCACCCCTCCAGAAATTTTCGGTCATTGATTCC
+HWI-EAS443:3:6:607:287#0/1
aaaabbbba`ba_^[aaaa`a_`__`X_`__a_a_Z]
@HWI-EAS443:3:6:857:1041#0/1
GAAATTTTCGGTCATTGATTCCACGTTTGATCATTCTGATT
+HWI-EAS443:3:6:857:1041#0/1
aa_]^^a[]¥QOY`_Z[^]^ [^ [a^_V^^_UW`XQ^^`_B
@HWI-EAS443:3:70:1012:380#0/1
CAAACGTGGAATCAATGACCGAAATTTCTGGAGGGGTGAA
+HWI-EAS443:3:70:1012:380#0/1
ab_`_aaaaaaa_]aZZbab]X`aaaabbb`baaaSa_Y
@HWI-EAS443:3:71:1117:650#0/1
GTTAATCAGAATGATCAAACGTGGAATCAATGACCGAAAT
+HWI-EAS443:3:71:1117:650#0/1
]HX¥Z¥Z^aYR¥^^`]S]TYTMS^TWYZIX^VO^Y_SNVX
@HWI-EAS443:3:71:295:75#0/1
GAAATTTTCGGTCATTGATTCCACGTTTGATCATTCTGATT
+HWI-EAS443:3:71:295:75#0/1
¥JWX^a`]¥^R`X`]¥MQ_V[PTUM^^]Z_XS]TQ¥XPRT
@HWI-EAS443:3:71:794:945#0/1
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+HWI-EAS443:3:71:794:945#0/1
ab_bbbbbbbbabbbbbbaaaa`aa^` `aaaaaaa`Z¥^
@HWI-EAS443:3:72:113:1394#0/1
CACCCCTCCAGAAATTTTCGGTCATTGATTCCACGTTTGAT
+HWI-EAS443:3:72:113:1394#0/1
ababbb`ba_]_aa^^^_aXEL_]X^XZSZ^`¥]XTX]T_Z
@HWI-EAS443:3:72:1660:1419#0/1
CCCCTCCAGAAATTTTCGGTCATTGATTCCACGTTTGATCA
+HWI-EAS443:3:72:1660:1419#0/1
`]^`XZYZ`b`VOY[Y^VPLYa_]U[aZJWQ¥OZ¥WLZJJ
@HWI-EAS443:3:73:1033:921#0/1
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+HWI-EAS443:3:73:1033:921#0/1
aaaaa`aaaa^ab_`U`aa_baa¥`aa`Z`U`^R^`Y[V_
@HWI-EAS443:3:73:1308:654#0/1
CGTCCATTTTCACCCCTCCAGAAATTTTCGGTCATTGATTC
+HWI-EAS443:3:73:1308:654#0/1
aaW]Za^a_]_¥U]S`aL`^a]¥_bb[T_WXSV[a]¥_`]
@HWI-EAS443:3:73:210:1374#0/1
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+HWI-EAS443:3:73:210:1374#0/1
[`b^a_W_a^`a`[`aaXa]`_[aa__US`T]W^LZ]]_`^
@HWI-EAS443:3:73:237:1464#0/1
CGTGAATCAATGACCGAAATTTCTGGAGGGGTGAAAATG
+HWI-EAS443:3:73:237:1464#0/1
Y`^QTZba`_X[bab`_I[Z¥XU`a_[TZPZXJ^UZ[P[¥
@HWI-EAS443:3:73:885:2016#0/1
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+HWI-EAS443:3:73:885:2016#0/1
_`Za^b[`abba`ZZYWa[NOYY_WH`_a¥P]VRN]a[TT
@HWI-EAS443:3:73:950:1570#0/1
CGTCCATTTTCACCCCTCCAGAAATTTTCGGTCATTGATTC
+HWI-EAS443:3:73:950:1570#0/1
_bSaaababb__a^a][`aa¥aXaa`aa___^a` `` `^]Z
@HWI-EAS443:3:74:1280:1750#0/1
TGTCCTTCGTCCATTTTCACCCCTCCAGAAATTTTCGGTCA
+HWI-EAS443:3:74:1280:1750#0/1
aaaaabbaaa` `aabaabba`__aaa__`a` `` `¥__X^^
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+HWI-EAS443:3:74:1358:947#0/1
_bbba_aba`^abb`aQa_bbaaaa`^aaVa` `baaba_
@HWI-EAS443:3:74:1391:576#0/1
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+HWI-EAS443:3:74:1391:576#0/1
KabX0¥^_a`¥_Yba^R[TS[aba`_bbbabU]b`babRT
@HWI-EAS443:3:74:306:591#0/1
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+HWI-EAS443:3:74:306:591#0/1
abb^baabaaab`^aab_a`a`aa`a`aaaa`¥` ` _` `a

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+HWI-EAS443:3:75:1568:1807#0/1
`bbabY`a`bbbaaa_]`^`¥aaaa`Z`aaaaaaZaa`
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+HWI-EAS443:3:75:594:964#0/1
`bb`]bYabbbbbbbbbbaaaaaaabb_bba_^aa]P
@HWI-EAS443:3:76:1510:254#0/1
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+HWI-EAS443:3:76:1510:254#0/1
_Vaa`[`¥aIUbaYRa_b]bb`ZS_Va^Ua_a_HXZY`a
@HWI-EAS443:3:76:164:1459#0/1
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+HWI-EAS443:3:76:164:1459#0/1
a`^`a__^_W_PGZGV`_S^`¥TRP]SRWW_R]^U^U]PH
@HWI-EAS443:3:76:667:373#0/1
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+HWI-EAS443:3:76:667:373#0/1
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+HWI-EAS443:3:77:1239:1754#0/1
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@HWI-EAS443:3:77:411:997#0/1
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+HWI-EAS443:3:77:411:997#0/1
a_W`ba]a]Y`aa`a^Uaaa_a`a`_aaaY_a`aaX`_[
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+HWI-EAS443:3:77:89:544#0/1
aaaaa`_b`a]aa_aa_[a_a`¥aaaaa¥a]aaaWKK__
@HWI-EAS443:3:78:583:1043#0/1
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+HWI-EAS443:3:78:583:1043#0/1
aaa```aaaaabaaaa`a_a]`aYq]_^_a]S[^X``_
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+HWI-EAS443:3:79:124:417#0/1
^Y`abbbba[a]aa_`baa`baaa^a_`][aaYT]]¥`[_
@HWI-EAS443:3:79:823:1004#0/1
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+HWI-EAS443:3:79:823:1004#0/1
a`aa`_aaa`aaabaaaaaaaaaaaa_a]aa_`Ya_]_^``_
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+HWI-EAS443:3:7:1754:1502#0/1
X^U¥`Z`[`a]^`ba]_0[`]^^QW`PXUYFV]_ZVLTYY
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abbb¥bbbababaa__abaaaaaba`aaba_]`baaaaa_
@HWI-EAS443:3:80:1421:939#0/1
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+HWI-EAS443:3:80:1421:939#0/1
aba_Xbabbb`]IRaaaa]_ab_^_aaa¥_a`_abaaZ]
@HWI-EAS443:3:80:634:57#0/1
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+HWI-EAS443:3:80:634:57#0/1
a_b^__aa_a_^`aaa`^`_^]a¥__W_]`^`__^XVUZ
@HWI-EAS443:3:80:822:1669#0/1
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+HWI-EAS443:3:80:822:1669#0/1
a]a_]_aaaaa¥`_`a`^][^`_^`[¥YS¥_a^^^]`^`^
@HWI-EAS443:3:80:889:1460#0/1
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+HWI-EAS443:3:80:889:1460#0/1
aaaabbbbbbbaaaaaabb`aaaab```a^aaa``a`a]
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+HWI-EAS443:3:81:1323:1313#0/1
aaa`baababa_aa`b_a`_`¥baaaaaaaba_a__`X
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+HWI-EAS443:3:81:1631:876#0/1
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@HWI-EAS443:3:81:1771:618#0/1
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+HWI-EAS443:3:81:1771:618#0/1
Zbb`bb[bb_babbba_aaaaa`a_aaaaaY^V_aa`[`
@HWI-EAS443:3:81:314:1243#0/1
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+HWI-EAS443:3:81:314:1243#0/1
P]^¥[__PRLWWS]]¥PS]MP¥S_YY`_]X^XWa[]XXWZ
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+HWI-EAS443:3:82:1431:1802#0/1
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+HWI-EAS443:3:82:1540:397#0/1
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@HWI-EAS443:3:82:21:1163#0/1
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+HWI-EAS443:3:82:21:1163#0/1
abaaaaabaaa`aZ^__`_Uaa__^`_^]`^a`^`^`^W

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+HWI-EAS443:3:82:297:1409#0/1
aaZZZWaaY`a_bbaa¥K_]_baaa^_]a`Yaa`^aaa
@HWI-EAS443:3:82:312:1696#0/1
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+HWI-EAS443:3:82:312:1696#0/1
ab_bbaabaabbbab_abaaaaa`a^W__^`]^`^`
@HWI-EAS443:3:83:62:47#0/1
GTCCTTCGTCCATTTTCACCCCTCCAGAAATTTTCGGTCAT
+HWI-EAS443:3:83:62:47#0/1
a]_^a`_]_^__`^`_]^^¥X]ZL_ZZW^ZWWZ]XVWW
@HWI-EAS443:3:83:929:17#0/1
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+HWI-EAS443:3:83:929:17#0/1
a¥`^`aaa`_Y[[]`^_V][¥¥``_Z¥ZZ[Z[TXYYTQ
@HWI-EAS443:3:84:510:447#0/1
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+HWI-EAS443:3:84:510:447#0/1
aba_aaYV_SZ`_a[_`_]`_`_`^`_`_`¥`_]T_^_¥
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+HWI-EAS443:3:84:971:762#0/1
_XS¥_b`babbabY]ZWZ_aa`YZbbbaaa`[a]ab`b_[
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+HWI-EAS443:3:85:1143:174#0/1
a``_aaaa___]_aa_]`^^___]_X`^_^`^Y`]XXYX
@HWI-EAS443:3:85:1187:73#0/1
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+HWI-EAS443:3:85:1187:73#0/1
a_ba`a`___a`_^]a_^`a`^`a_Xa```Ya]^XX`Z
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GACGAAAGTGGATGAGAGAACTCATCCTTTATGACAAAG
+HWI-EAS443:3:85:1570:1403#0/1
^¥_bbabb`XU^^T^ababaa_a_a`YL_^a`ba_aa`^^
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+HWI-EAS443:3:85:1712:285#0/1
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@HWI-EAS443:3:85:421:1303#0/1
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+HWI-EAS443:3:85:421:1303#0/1
aaa`a`^_VP`a_a`aa0`_`_`S^a]`a^`_____^__
@HWI-EAS443:3:85:65:903#0/1
CCTTCGTCCATTTTCACCCCTCCAGAAATTTTCGGTCATTG
+HWI-EAS443:3:85:65:903#0/1
abbbbababa¥aaabbaaaa_aaaa]S^`a`_`_X`_`_`a
@HWI-EAS443:3:86:1409:1154#0/1
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+HWI-EAS443:3:86:1409:1154#0/1
aaabbaaab_a_aaa`bYaa_aaa__aa`¥a_Z]a`_`
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+HWI-EAS443:3:86:42:1201#0/1
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+HWI-EAS443:3:86:552:359#0/1
a`aaa_abX`aa`a]¥`Z_aaaYa[`_aaa`_Wa]a_Ua
@HWI-EAS443:3:86:747:1486#0/1
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+HWI-EAS443:3:86:747:1486#0/1
a`]ab_Q]^ [W]aa`_aaa_Z`_aW^`a_^R_a__`[_][
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+HWI-EAS443:3:88:32:770#0/1
aaaaaa_^aXJTZ[^`^U[Z`_]`^`U¥]VJVZWYZYY
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CCTTCGTCCATTTTACCCTCCAGAAATTTCCGGTCATTG
+HWI-EAS443:3:8:1039:1330#0/1
¥Z_b]¥`bb`a`aa`ba]NZRH]_a_]_a_][`VZ_^^
@HWI-EAS443:3:8:849:317#0/1
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+HWI-EAS443:3:8:849:317#0/1
aa`]ab_aaaa]N_ab__a_]RX_^_X_a`Xa_`¥R_Z[
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+HWI-EAS443:3:90:120:944#0/1
[_a`_QTU_[SZa¥[T_a]a]_XNXZ^¥ZY`Z¥`U`_]`
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+HWI-EAS443:3:90:1261:438#0/1
abbbababbbbababbbbabababbb`bbaababbaa]^
@HWI-EAS443:3:90:674:983#0/1
GACGGAAAGTGGATGAGAGAACTCATCCTTTATGACAAAG
+HWI-EAS443:3:90:674:983#0/1
_ZZaaa``_aaaa`^Z]a¥[````]`a^_a_^]__`V
@HWI-EAS443:3:90:860:424#0/1
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+HWI-EAS443:3:90:860:424#0/1
aaaba[^`aab`a`a`_ba_`aa^`aaaaaba]]a`]_a
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+HWI-EAS443:3:90:874:300#0/1
a[_[a_a`_`X`a__`_^`^a^Q]_^UX^]`]^_ZSX_
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+HWI-EAS443:3:91:1185:1068#0/1
abbbabbbbbbabb`bbbbabbbbbaaaaaaaab___a^
@HWI-EAS443:3:91:1206:271#0/1
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+HWI-EAS443:3:91:1206:271#0/1
ababbbbaaa¥`aa`ab_aaaaaa`a_a__a_^]a`aVa
@HWI-EAS443:3:91:1240:991#0/1
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+HWI-EAS443:3:91:1240:991#0/1
a_`[^¥TabT^aTaa`]I_ba^a]Va_a_``__]X_a_
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+HWI-EAS443:3:91:1620:376#0/1
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+HWI-EAS443:3:91:818:1151#0/1
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+HWI-EAS443:3:92:1521:73#0/1
]babbbbabbbbaabbbbbb¥bbaabbaabbaa¥ab
@HWI-EAS443:3:92:202:718#0/1
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+HWI-EAS443:3:92:202:718#0/1
aaVaa_¥a`^Sa`aa^aa_a_``a¥a`a``]^Y¥^__[]`
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+HWI-EAS443:3:93:1448:517#0/1
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+HWI-EAS443:3:93:54:1706#0/1
aX^`_]Z__Z`[W]WF[T`[_UNa[_`_YY_^^`aG[_
@HWI-EAS443:3:94:31:1684#0/1
CAATGACCGAAATTTCTGGAGGGGTGAAAATGGACGAAGG
+HWI-EAS443:3:94:31:1684#0/1
aX[^_^][a^R[_`_a_`_]_[^Y_XPRU]YU_^ZY[VT
@HWI-EAS443:3:95:1045:364#0/1
ATCAGAATGATCAAACGTGGAATCAATGACCGAAATTTCT
+HWI-EAS443:3:95:1045:364#0/1
`a[`baa`bba`aaaab_a__aaaa^aa``^aa`_aa`S`
@HWI-EAS443:3:95:1557:1648#0/1
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+HWI-EAS443:3:95:1557:1648#0/1
XbbaUU_b`Ub`]`bbYSFXb]R`¥ab`YZ[Ya_a_aa`
@HWI-EAS443:3:95:1606:156#0/1
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+HWI-EAS443:3:95:1606:156#0/1
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+HWI-EAS443:3:95:607:1046#0/1
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@HWI-EAS443:3:95:623:1567#0/1
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+HWI-EAS443:3:95:623:1567#0/1
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+HWI-EAS443:3:96:1255:984#0/1
aa`¥`^]ZW[¥^`][`_]Yaa`_a[¥¥VaW[__V`_^X`
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+HWI-EAS443:3:97:1194:1282#0/1
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@HWI-EAS443:3:97:725:1410#0/1
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+HWI-EAS443:3:97:725:1410#0/1
_^[YU^`b¥aaa`X_a`a^aXUX_YU^X][Xaa`a[_]
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+HWI-EAS443:3:97:880:1305#0/1
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@HWI-EAS443:3:98:110:1661#0/1
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+HWI-EAS443:3:98:110:1661#0/1
a`aab^aaaaaaa`aa[a`a`_`a``aaa_Ya_a`X_^
@HWI-EAS443:3:98:268:1498#0/1
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+HWI-EAS443:3:98:268:1498#0/1
a¥a^aabaaaa`aaa`_a`a]a`_`Y`___`a^`__^a
@HWI-EAS443:3:98:824:1694#0/1
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+HWI-EAS443:3:98:824:1694#0/1
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+HWI-EAS443:3:99:1061:1650#0/1
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@HWI-EAS443:3:9:1585:62#0/1
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+HWI-EAS443:3:9:1585:62#0/1
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+HWI-EAS443:3:43:438:1579#0/1  
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aa\_a^\_\_\_\_]^`\_Y]\_\_\_\_[^`¥\_\_Z`^ZM¥^YW]X]YXUX

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aaa`aaa_`aa[T_^a^`_`a^`a][¥]`[]]U_^]V^^

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+HWI-EAS443:3:74:301:47#0/1
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@HWI-EAS443:3:74:616:468#0/1
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+HWI-EAS443:3:75:1200:1735#0/1
X`^T^]GU`YX_W`¥_QSa¥_Z¥`a`_b¥X¥aa]IX`_]a_
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+HWI-EAS443:3:75:631:794#0/1
_bbbabaaa`abbbbabbaabaabba^aaa`_babaaa^`
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+HWI-EAS443:3:76:1785:623#0/1
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+HWI-EAS443:3:77:372:1327#0/1
aaaa¥T^a`^a_Y]Ua__T]^R[Yaa`^`_]Z]^¥Z¥W^X
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+HWI-EAS443:3:78:922:1060#0/1
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+HWI-EAS443:3:80:1042:836#0/1
a¥aa_aaaaaaYaa_a`a`_]Y[¥^a_]a`____`[¥_]`
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+HWI-EAS443:3:81:1132:589#0/1
a____^`_Q`_____Za`Y`[R¥`a[Z¥__`U¥¥__W¥[W¥
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+HWI-EAS443:3:81:177:1596#0/1
W_a]¥X]¥[_`_____`ZX¥¥ZYTV]`__YYW]^VQQVZY

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+HWI-EAS443:3:81:240:1358#0/1
a_]YY^]`abaa]^`a_]ba^Z^_a^b^_S__`]]a]_^
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+HWI-EAS443:3:81:924:872#0/1
`aZ`^][`^]aaa¥¥^`ba¥_a`]WT_¥[_a_]¥`_YQOQ
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+HWI-EAS443:3:82:1075:352#0/1
aaaaaaabbbb`aaa_abba`bbaaaaba_aa`a_a[T``
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+HWI-EAS443:3:83:844:160#0/1
a[a`WW^]a_]`Z^V^_U^aX^Y^ZX]^]RZZ[]X][F
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+HWI-EAS443:3:84:465:1955#0/1
aaba[^RNST[ZPZQOP`_`a_¥[QRU`]]^U]_^¥`I__
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+HWI-EAS443:3:84:962:2021#0/1
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@HWI-EAS443:3:86:1077:126#0/1
GACTCGAACCGTGTACCATTCCATTCAAGTCCTCCGATG
+HWI-EAS443:3:86:1077:126#0/1
aa`]`a_a_^^Z¥aa_aa]Z]`P¥¥a`_`aLUY^HU[U¥_
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+HWI-EAS443:3:86:246:990#0/1
¥Za`Y`^ba]^b`]]aaaa^aab]_[Y`]YXY]_]_]]
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+HWI-EAS443:3:86:331:1206#0/1
a_a_¥Ya`____`____^a[^ZFNVX_^]_^]XYY[W¥YXY
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+HWI-EAS443:3:87:1260:577#0/1
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@HWI-EAS443:3:89:1643:1996#0/1
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¥KUba¥PV[a[bbbababa^aaa`Ub[ab`aaa^aZaN
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+HWI-EAS443:3:8:73:412#0/1
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+HWI-EAS443:3:90:158:861#0/1
a`baa`b]aba`aaaaYaa¥aaaa_¥ab_[`aa_W```a
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+HWI-EAS443:3:90:797:1825#0/1
a``baba_^[_^^`abb_a`^[a^`_aba`¥a]____`aa
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aab^ab`aa`US]`RZb_aW_aa_^Ya_]a`^XV`N^Q
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a`Y_a_V`a_]`_]_^a`^Y^aaY_X^_X`^X[S_]XXX
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ab^ZV`^_baaaaab^_`]`a]aaXa`adW`RY^aY__
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+HWI-EAS443:3:96:1235:1230#0/1
aabaa¥baaaaba_`aaa_`aaa]a]Z`_]_]__^]]_Sa
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+HWI-EAS443:3:96:403:1447#0/1
a]aaaYWaa_^]``V_]aZW_¥aaX]^X_]SY^^XXMZW`
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+HWI-EAS443:3:97:859:1735#0/1
`_`b[a]^a¥b``^ba`bbabbabbXX]Ub__aab]a]^`
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+HWI-EAS443:3:99:1147:1332#0/1
`a_] [Z`^Va]ZNZ_aaZ_]aU``R^Z_aR^_AR[TQB

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+HWI-EAS443:3:99:294:753#0/1
aabbba`bbb_abb]a^aaabb_`aaaa` `a`a_]_` `a
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+HWI-EAS443:3:99:463:1701#0/1
aaa[baa[a_aaaa`ZU¥Vaa[ba`_a[aVaa_aa^a_a¥
@HWI-EAS443:3:99:769:608#0/1
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+HWI-EAS443:3:99:769:608#0/1
^^^ab[a`aaa]^WX_aba[a`aaaZa¥G_a`^aaaa`
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CATCGGAGGACTTGAATGGAATGGTAACACGGTTCGAGTC
+HWI-EAS443:3:9:1047:656#0/1
¥` ` _Y¥SYab^`a^[\` `a`a^Q_a¥` `]_Y` [T`]a]`WT
@HWI-EAS443:3:9:725:242#0/1
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+HWI-EAS443:3:9:725:242#0/1
a`aY`aaababb`a`b`]abb_aaU` `aa^_]__`VMY]`
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+HWI-EAS443:3:9:869:1299#0/1
aaS`Q]aaa_b¥QZ]]aa_Z¥P`V¥`PVZM[X¥`QWSW_Y
@HWI-EAS443:3:82:1429:1280#0/1
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+HWI-EAS443:3:82:1429:1280#0/1
]]`b[`aa]¥Y` `[aaTbbaYFZ^aa_aY`^aa¥LUW` [`
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CAGCCGTCTGAGCTCTTCAATGGTGGAACAGATCTTCATG
+HWI-EAS443:3:20:356:1845#0/1
`^Z_b[`bY^a_0]b`_aaa` `]_` `aaa__X_[V¥_GX
@HWI-EAS443:3:29:1444:1190#0/1
ATTTCCAGCATGGTGGAGGCCATGGTGTCTAGGGCCCGGA
+HWI-EAS443:3:29:1444:1190#0/1
__^_X0]¥_Z__`^` `]OUYW]Q¥]a`R]` ` `] [V` ¥` B
@HWI-EAS443:3:84:574:869#0/1
GTCTGAGCTCTTCAATGGTGGAACAGATCTTCATGATCTC
+HWI-EAS443:3:84:574:869#0/1
a]` [aa`IX¥]Y¥N_U` `Y`]P]V[ZNYXZ[¥YY`UOJRX
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GCAAAAGCAGGTAGATATTNAAAGATGAGTCTTCTAACCG
+HWI-EAS443:3:36:308:1410#0/1
aba`_X` ` ` ` ¥a` [a^a¥D¥a[`a`^` ` ¥aaaa_baaa¥
@HWI-EAS443:3:78:1452:326#0/1
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+HWI-EAS443:3:78:1452:326#0/1
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+HWI-EAS443:3:19:1006:615#0/1
SN^`bba_____^`_0QSZ¥WIW_]`Q^ZbUM]F]aZH¥]a
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+HWI-EAS443:3:68:1724:826#0/1
aa`aaaaaaZ^¥```_`[^]a`YR]ZZ_]JV_¥_]SW^Y
@HWI-EAS443:3:70:284:1744#0/1
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+HWI-EAS443:3:70:284:1744#0/1
aaa`a`bbZab`_a[a[_ba¥_ba_aT[_H^ZG[`YT]_¥
@HWI-EAS443:3:93:135:626#0/1
CATGCCACTCTGCTGCATTTGACGATTTAAGAGTATCAAG
+HWI-EAS443:3:93:135:626#0/1
_`^V`¥VaWOSTaX[_TYX¥aaR`WSZM¥ZU¥UYPXKDIXY
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+HWI-EAS443:3:15:337:916#0/1
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+HWI-EAS443:3:40:946:1009#0/1
``Z_[_]¥]XZZ^]^[^]Z]¥Z^ZSXZZ]UMDMWXXZXZ
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@HWI-EAS443:3:66:1184:671#0/1
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+HWI-EAS443:3:66:1184:671#0/1
`[¥¥YG¥]a]_MSO`_NZ^a_a`R]_¥I¥`_]_R^a_]OER
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+HWI-EAS443:3:11:628:1313#0/1
¥POZbaZ__aTab`^aaaa]U_aaab`[`^S`[Zaa[[`
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+HWI-EAS443:3:16:1463:1766#0/1
]a`_a`b``^a^__^`_YF[PFVP]G`V^U__[NN`^`R^
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abb_W_bb`bbbaaTbaZaaaX]`aV¥a`_XZaa[X`_Qa
@HWI-EAS443:3:17:173:1389#0/1
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`^aaaaaba_aa`aaa`aa`[[T``V__a`^`^^`__^`__[^

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+HWI-EAS443:3:49:704:691#0/1
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@HWI-EAS443:3:4:649:1074#0/1
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+HWI-EAS443:3:4:649:1074#0/1
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@HWI-EAS443:3:52:1102:1290#0/1
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+HWI-EAS443:3:52:1102:1290#0/1
^^a[b_ab` []babbaaaa[_V^a_]bbb`ababbba`a
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abbaaa`aa_bZaaaa_a]a^a^_]`^Z[Z_a__^`¥^_X
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+HWI-EAS443:3:52:765:807#0/1
a_b`abbbbababa`bb^`Y` `^[_____aa`_a¥R_aaX^
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+HWI-EAS443:3:54:1607:1042#0/1
aaabaaabb`aba_aaa`aaaa[a_¥^^a` `aaa`^`_`_
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+HWI-EAS443:3:55:691:1432#0/1
ab^a^¥aa` `aaaa]a_` `aa¥XLYY]]`a`^`_Va^]_
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CAAATGCAGCAGAGTGGCATGCCATCCACACCAATTGACT
+HWI-EAS443:3:69:832:251#0/1
abbbabaaaa_a_aXaa_a^¥R¥`]]` `____¥`_] ^_XY_
@HWI-EAS443:3:76:218:1282#0/1
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+HWI-EAS443:3:76:218:1282#0/1
aabbabb`aab___W`_] ^__a`^^]X¥]¥^^ZINVZZW
@HWI-EAS443:3:78:1228:1675#0/1
AGCAATCTGGACCCCTCTTGTGGAAAGCTTTCCTCTTGAA
+HWI-EAS443:3:78:1228:1675#0/1
a[^aaaa^a^aa`_¥__a`_R^^a_]_^_^^`¥_^_] ^
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GCAATCTGGACCCCTCTTGTGGAAAGCTTTCCTCTTGAA
+HWI-EAS443:3:7:1020:167#0/1
a[`a`¥Q^_a__aY_¥[[Y¥Y¥NZ`WLSWQGSZS¥¥`WW¥
@HWI-EAS443:3:84:21:1044#0/1
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+HWI-EAS443:3:84:21:1044#0/1
`b`__aa^aaaaa`a`aS_____P]a^`^aa`_Z^WZ_
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+HWI-EAS443:3:88:435:572#0/1
aaaaa__a]aaa^`aaa`_`¥`a^^ZR__`a`_^a`^`a
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+HWI-EAS443:3:89:1237:262#0/1
[¥¥a]`a____`U`_¥_Y]R]`TV[]X[````W`QVZ
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+HWI-EAS443:3:93:1716:1181#0/1
a`aaa_aaaa__^b`aa__`a`a_aU`a_V_aZ____]_^
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+HWI-EAS443:3:97:78:164#0/1
``^aaaaa``````````a^Y__[_[_¥[^]TT^V^^^] ^
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+HWI-EAS443:3:99:787:517#0/1
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@HWI-EAS443:3:80:476:471#0/1
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+HWI-EAS443:3:80:476:471#0/1
_`¥X^`_W¥`_aaYG0aaa_a^_XRb`a][`^aa^b¥SV`
@HWI-EAS443:3:12:1613:1452#0/1
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+HWI-EAS443:3:12:1613:1452#0/1
aaa_aaaaaa_a]`a`__`_]_^`Z^Z]`^X```__`_^Z
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+HWI-EAS443:3:26:1591:955#0/1
aa]babbaa_^__a`aaa`__]_`]a^^`_`^`__¥_^_
@HWI-EAS443:3:35:489:482#0/1
GAGCTAAGAGAGCAATTGAGCTCAGTGTCATCATTTGAAA
+HWI-EAS443:3:35:489:482#0/1
aaabbaaaa]aaaaaaaa`a`_aa^]M_aaa`a`a`_`^
@HWI-EAS443:3:38:393:853#0/1
AGCTAAGAGAGCAATTGAGCTCAGTGTCATCATTTGAAAG
+HWI-EAS443:3:38:393:853#0/1
`Y¥[_`aa_]Z_]a__^¥__`_Z`V`_YFY]]ZZRZLW

@HWI-EAS443:3:43:1439:1085#0/1
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+HWI-EAS443:3:43:1439:1085#0/1
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+HWI-EAS443:3:56:1216:1317#0/1
``[[IX`WS`aaa_Yaa`_aa]b]aaaaabaaa_^_]
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+HWI-EAS443:3:56:1750:939#0/1
_XJb_bbab`b`aaaaZ`a¥b`a]`b`aaababbaY[Zaa
@HWI-EAS443:3:66:1110:984#0/1
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+HWI-EAS443:3:66:1110:984#0/1
aa_aaa`a`_`a`_`_`^a`_`_`_`Z`^a`_`a`_`_`_`^Z[
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+HWI-EAS443:3:70:404:1253#0/1
a`a`JWW`^XX`a`Y`_`a`aaa^[X^Ya_[XU`_`YVNX
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+HWI-EAS443:3:71:1206:206#0/1
]babY[^]aaaVaabaa`_QZ`_a]aa[a`V_ab`_`Y^Y
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+HWI-EAS443:3:85:303:1901#0/1
_`^¥WZY`Y`aaa]^Z^^_a^a`ZRQ^_a`_`_`Y¥`_`^¥` [Y
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a`_^baaaa`_a^aaaa`_`a`aaaa^aa`aaXaba`a`^_
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+HWI-EAS443:3:97:1280:409#0/1
`aZaaa`aa_a_abb_aa_^`_a`Za^`_a¥^aa[a^]^a
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+HWI-EAS443:3:63:901:865#0/1
aZVWWW`V_UYZTW_U^Y_]`^¥WXX]^Y]XX¥XBBBBBB
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+HWI-EAS443:3:16:1299:1018#0/1
aaaba`bbbaaabbabbbabb¥baabbabb`aaaaaaa
@HWI-EAS443:3:27:344:1351#0/1
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+HWI-EAS443:3:27:344:1351#0/1
aa`¥XZ`Ta_ab`¥^W]^a`_`^Z`Ua`_`T[Z`_`Y^^¥[
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]¥R^YZZTRUQH^S^UVTYXU¥[UMP_[_^VJ]]N]WBB
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+HWI-EAS443:3:29:1679:1654#0/1
Q_^RR_WZ¥W_[¥UUaWTWaRT]b^XTZZ^_¥ZZN_]BB
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+HWI-EAS443:3:30:400:1073#0/1
a_[b]aaaabbba[Za`baaXWaU`_baaaa``]TXX]
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`_^ab¥¥J¥YT]a`aZa`aaZ^^Tb¥`_a`Y¥`S`a_^¥
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UWbb]bab`_¥b¥]`_]¥Zbab^baZ¥WWaX¥[UN_b_¥
@HWI-EAS443:3:71:1071:332#0/1
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aa]Ybb_baaaaabaababaa__a`a`aa`a_aaa]_`^
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aaa_aaa`aa`aa^a_a_aaaYa`^a^a`T`_`¥___`_`
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+HWI-EAS443:3:81:1131:799#0/1
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@HWI-EAS443:3:91:70:1250#0/1
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+HWI-EAS443:3:91:70:1250#0/1
I`YX[[]YX]abbbbXTXaaba_^ab_^[]a__]_MUaaYX
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+HWI-EAS443:3:44:1427:665#0/1
aMD^Z`a__a`_a^a_Y`a`^T¥`^^_W_[SZ^_^W¥Y
@HWI-EAS443:3:59:546:833#0/1
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ababababb`abaaabbaaa_bbaaa]aaaa`_a_Qa_Y
@HWI-EAS443:3:38:764:1469#0/1
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+HWI-EAS443:3:38:764:1469#0/1
aaa`aba_a]`__[]DTb`_`¥]WZ¥X__a^¥_]ZZR^^`_`
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a`````bbbbbaaba[¥^Zbaba````[D^````a````]Z_aaa

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@HWI-EAS443:3:26:1536:1461#0/1
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+HWI-EAS443:3:26:1536:1461#0/1
abS_W_Wa]`XUb]aZ_aS`aSGV^DWNIIJ^Z^]Y`^HUQ
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+HWI-EAS443:3:100:519:204#0/1
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+HWI-EAS443:3:58:555:1710#0/1
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+HWI-EAS443:3:17:1493:716#0/1
`b_`^U]ba_]Y`b`aa`a^Y_`[Z[N_aVW^VZ[XXFV
@HWI-EAS443:3:44:1110:996#0/1
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+HWI-EAS443:3:44:1110:996#0/1
0[Z_b[aW]¥`¥^a^UX_`W`b_ab]bbb_`b`__`¥baa
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+HWI-EAS443:3:73:1176:1776#0/1
^^`b``aaaa_`a`Nb``Zaa`ab```aa¥X¥_UaaL[^
@HWI-EAS443:3:16:1391:1212#0/1
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+HWI-EAS443:3:16:1391:1212#0/1
^_a`YP[b]¥ababUVVababa[_ba_ab`bbaabaaa_
@HWI-EAS443:3:40:774:974#0/1
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aaaaaaaa`aa`aa```a_Wa`a`a_____a^^`_]`X^_
@HWI-EAS443:3:92:1475:1461#0/1
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+HWI-EAS443:3:92:1475:1461#0/1
a`babbabbbaa]^baaWbaaaaaaaaa_aaa`aaa_Ua`a
@HWI-EAS443:3:99:1092:931#0/1
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+HWI-EAS443:3:99:1092:931#0/1
aaZ]bbbababab__[ba^baaabab`a_aaaabaaa]``
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+HWI-EAS443:3:45:1401:1904#0/1
`a___a_[__Q_a[YSa_^R`W_GXTU¥VODYZ_S`_W[I
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+HWI-EAS443:3:69:450:589#0/1
aaabaaabaa`__aa`__aa`^__a_a]`RDRZ]_`ZX
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+HWI-EAS443:3:8:865:1517#0/1
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W[_`_bbabab`a`TbbbbYbabbbbbb¥abbbYabbb`b
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^^¥Z¥a^]XTO[U¥XH[UFTUUaRUZLM_ZLZNLJ^U_ZR
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@HWI-EAS443:3:31:935:773#0/1
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+HWI-EAS443:3:31:935:773#0/1
ab^bbbaabb^abba_babaaaaa`aaa^aaaa`_a`
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+HWI-EAS443:3:38:1762:555#0/1
a_]_^bbbb_]W`_a_YV]U]]R¥Q]MRFVYMYZ¥GVD
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_`aa_bbb`]_]abba`bbba^¥abba_bbabab_Q]a_
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+HWI-EAS443:3:50:1505:79#0/1
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@HWI-EAS443:3:57:1585:2043#0/1
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+HWI-EAS443:3:57:1585:2043#0/1
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+HWI-EAS443:3:59:465:1442#0/1
^^_STZZLWNb`¥_^Z`aaa___Xa`_`T[`X¥]_QFJPL

@HWI-EAS443:3:76:1129:1362#0/1
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+HWI-EAS443:3:76:1129:1362#0/1
H__V_bb]aab`__abb[TTbbb^WL[b¥J`W^]]VLRW
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+HWI-EAS443:3:84:506:585#0/1
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+HWI-EAS443:3:9:943:1528#0/1
^baV`]TPI^a_Y¥`YXZ[¥VaW¥``¥X_^`]I^_RZ]`Y
@HWI-EAS443:3:46:494:963#0/1
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+HWI-EAS443:3:46:494:963#0/1
aab]]]^baaa¥`W`a`_b`a^a`S_aaaaODFa_Ha^Z
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+HWI-EAS443:3:85:1541:887#0/1
_`^Z]ababb[a_aPD]baaaaba^Z[_Y]a¥_aXW]a[G
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+HWI-EAS443:3:100:326:506#0/1
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+HWI-EAS443:3:11:1592:1478#0/1
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+HWI-EAS443:3:12:1450:1020#0/1
^`Z_^W¥]SS`TLZRS`^``¥Y[WUZ__OERVa_[BBBB
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+HWI-EAS443:3:18:67:1276#0/1
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+HWI-EAS443:3:20:982:1659#0/1
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+HWI-EAS443:3:21:1615:1458#0/1
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+HWI-EAS443:3:23:778:1514#0/1
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+HWI-EAS443:3:28:1193:1012#0/1
Z^^_¥ZVZR_¥¥Z]^`QX_WX^^FP_¥WO]]_X^UVFYVX
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+HWI-EAS443:3:2:401:1488#0/1
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@HWI-EAS443:3:2:945:345#0/1
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+HWI-EAS443:3:31:423:358#0/1
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@HWI-EAS443:3:3:1061:231#0/1
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+HWI-EAS443:3:3:1061:231#0/1
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+HWI-EAS443:3:40:638:607#0/1
a`^bXY¥aba_a`H`Zaaa]^__X^ZHS¥_U[S[VR^_H]
@HWI-EAS443:3:42:64:1273#0/1
GAAGAAATAAGACCCTTCATTACTCATGTACAGGAAGGC
+HWI-EAS443:3:42:64:1273#0/1
`_^]¥aaaba`¥¥__a`aaaa`__`a`_[GX^Z__`T_
@HWI-EAS443:3:45:1248:913#0/1
GATAATCACTCAATGCGTGACATCGAAGCCATGGCGTCTC
+HWI-EAS443:3:45:1248:913#0/1
aSXX¥WY_SY_`aYDQSVUVL^_SHT_WPNV¥TU_LYSB
@HWI-EAS443:3:45:1487:589#0/1
CTCCTCTGCATTGTCTCCGAATAAATAAGACCCTTCATTA
+HWI-EAS443:3:45:1487:589#0/1
]KaJaaab^_ZW_LX`abaHOPGQ_X[aNU_S__G¥`__
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+HWI-EAS443:3:46:1318:1009#0/1
¥¥`ab¥_¥b¥K_bYbba]bZYaTaa`_`aTZa[`¥b^I]
@HWI-EAS443:3:46:905:157#0/1
TAAGACGCTTCATTACTCATGTCAAAGGAAGGCACGATCG
+HWI-EAS443:3:46:905:157#0/1
``¥`aWFRX`_]_[PUYZ`UbYU`RNR_WRXPRS]RJU`
@HWI-EAS443:3:4:1358:1870#0/1
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+HWI-EAS443:3:4:1358:1870#0/1
_aa`bb[aUY_Gb_ab__`a`Zaa`aaaaYa_aa^YN¥B
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+HWI-EAS443:3:50:1061:1867#0/1
a_aTa``a[_0`aa`ab_a^aX^`aa___H^PU[¥_R[W
@HWI-EAS443:3:52:1506:429#0/1
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+HWI-EAS443:3:52:1506:429#0/1
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+HWI-EAS443:3:56:706:2004#0/1
a^`_UaPvabaQbQRQQQ^a)`^aSQT¥Y[QZ]¥LD¥_YU
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a]b_Yaaa^baaaaa`[a_a_a`aaaa_a_Y`_^`_`SV
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+HWI-EAS443:3:57:1729:1391#0/1
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+HWI-EAS443:3:59:356:666#0/1
aTIJX_a`[_a^V_^VPO[Sa`¥WY^VSV[[BBBBBBBBB
@HWI-EAS443:3:60:1552:1477#0/1
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+HWI-EAS443:3:60:1552:1477#0/1
aa`Z]`^`_`ba`Za¥]a`^¥`_`_Z`^a_]WYV]]^¥S
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+HWI-EAS443:3:60:295:572#0/1
]T]_P__OFW]X]¥N^]aa¥X_¥U¥Z¥S```_ZVRFQN]Q
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+HWI-EAS443:3:61:1383:1435#0/1
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+HWI-EAS443:3:64:327:1358#0/1
X^IU[MY]]^LU]]WWR[XM¥YN¥TV_¥OV_YVYX[VYBB
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+HWI-EAS443:3:68:888:911#0/1
aXa`a_baaa`¥a]¥a]QQL[^`[_`XNY__[[^_X_¥_

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ab¥a_aabaaaa¥`ZU`^V[[^_LYT[MQQRFRZ^BBB
@HWI-EAS443:3:75:194:1201#0/1
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+HWI-EAS443:3:75:194:1201#0/1
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@HWI-EAS443:3:75:404:554#0/1
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+HWI-EAS443:3:75:404:554#0/1
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@HWI-EAS443:3:75:480:305#0/1
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+HWI-EAS443:3:75:480:305#0/1
a`a`a`ba_b^a`]`a]_`a__`¥a^_Y]V][[]]__Z
@HWI-EAS443:3:78:189:692#0/1
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+HWI-EAS443:3:78:189:692#0/1
a^aaaZPYa_¥Raaa```[[`^¥¥¥Y_^U^W_XFVW¥¥
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aaaZZaab`a__GbV^a`¥`b]__Y__][Y`Y_`_a^V[]
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+HWI-EAS443:3:82:260:1626#0/1
]_bKb_W_ODU`^^¥¥N]OX_b_]`^`Y^[_bb^[aP`[_`a
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+HWI-EAS443:3:83:1432:1721#0/1
`ab`aZb`a`_G``aaaaUNY__SF¥`````^_aUa__G]_
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+HWI-EAS443:3:85:898:195#0/1
a_aaY^[_`a¥a`U`b`]aaUNZ_]a[_a]H[Q]H_¥^^
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+HWI-EAS443:3:88:623:297#0/1
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+HWI-EAS443:3:88:654:1295#0/1
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+HWI-EAS443:3:88:863:338#0/1
aaa^^a`_`a`W___GW^`aV__^`¥¥¥_] [U[Y_¥RSU
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+HWI-EAS443:3:89:787:802#0/1
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abab`aabRb_a` ``_`b^aaaa[a_a`OZ_a^a_aaa]^
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+HWI-EAS443:3:99:1259:1266#0/1
_^_P[_^U^^¥T_U¥`bab^QXa`XXZ_[a^aZ`]aVZ`X
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abaaa`_```aaaa`a¥baa`a[aa`aaaa` `a`]a`^a
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@HWI-EAS443:3:36:116:866#0/1
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+HWI-EAS443:3:36:116:866#0/1
aU]Uba_I¥a¥aa[aZ[Y¥[SY¥VX`a`^^`^VaPVPVPG[Z
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+HWI-EAS443:3:43:600:292#0/1
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+HWI-EAS443:3:47:1782:1536#0/1
`b[W`]a`_bbbb¥b_[a]OMT_¥NR]R]VTPSODKVXBB
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+HWI-EAS443:3:64:1506:1363#0/1
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+HWI-EAS443:3:65:571:916#0/1
`^H`_^a`Z^WW^Y]```aaa`Y¥_]aaaXW^_¥P¥__^^
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+HWI-EAS443:3:66:1174:1929#0/1
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+HWI-EAS443:3:76:765:204#0/1
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+HWI-EAS443:3:98:1253:807#0/1
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+HWI-EAS443:3:12:1308:1149#0/1
aba^aab`___a^D[aaaaZa¥`_`Xa¥`_]_0a_V^_Y_
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+HWI-EAS443:3:17:708:861#0/1
]¥__a[DZbba`___a`a`aaa`aa`baV]_`a_^¥aa_
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+HWI-EAS443:3:24:309:650#0/1
aaaaaaabaa`_a^RD[aa`a]__aa¥Y``__a]____¥R¥
@HWI-EAS443:3:35:315:640#0/1
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+HWI-EAS443:3:35:315:640#0/1
a`aaaa_PDW`_aa`a`a`a`a`a`_^^GT^a_^aRTY[`_W
@HWI-EAS443:3:39:1061:1243#0/1
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+HWI-EAS443:3:39:1061:1243#0/1
a`a`^aababb`¥aaYbaaaWaX`XDWa_a_____K¥__a^
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+HWI-EAS443:3:44:1389:14#0/1
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+HWI-EAS443:3:45:253:345#0/1
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+HWI-EAS443:3:53:1072:288#0/1
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+HWI-EAS443:3:68:1701:1072#0/1
_aX[`_aaR_Waaa_Q^¥X____aaUDRUPT`_XXT`_Z]
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T¥RW^`¥[XU¥¥Ua[]X_OY]`WU¥]RUDU_X_Z``]``a
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+HWI-EAS443:3:80:93:1776#0/1
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+HWI-EAS443:3:81:223:1432#0/1
a_YX_``_]^^X^^Y^KDW[^Z__]_^[_]VYX_YXY^V
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+HWI-EAS443:3:86:721:1238#0/1
^_a¥`[UWba¥_Z^_T]ZD[_`^aaa_]_¥RZ`a¥b^Z^P
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¥X``Y[SPZ``]RFQQVT[X][ZUZO]RDTU[WW[[]Z
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+HWI-EAS443:3:21:1194:516#0/1
`V`X_a`__[Qa_UF^¥____Z__¥¥]¥_¥^^¥^Y`¥T_UV
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^_X`¥aaa¥R_`a`UZ[¥^TZUF^aUHWaSZUUIXb]¥FF

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+HWI-EAS443:3:34:1423:82#0/1
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+HWI-EAS443:3:37:518:263#0/1
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+HWI-EAS443:3:46:1548:1925#0/1
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@HWI-EAS443:3:55:1460:206#0/1
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+HWI-EAS443:3:55:1460:206#0/1
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+HWI-EAS443:3:64:1139:618#0/1
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+HWI-EAS443:3:11:1394:1529#0/1
^XQXZ]]ZR]^_UXaT]_]¥XJ^Z¥]Y¥```QN^NSYJYB
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a`a`aaa`Ybaaaa_a_a_a_`_a__X]_^V__[^^^OV
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+HWI-EAS443:3:39:1208:1280#0/1  
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+HWI-EAS443:3:3:1160:271#0/1  
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+HWI-EAS443:3:40:1614:203#0/1  
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+HWI-EAS443:3:40:23:322#0/1  
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+HWI-EAS443:3:40:785:1961#0/1  
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aa`¥`]]^^aaa\_aWU[V[]XVX\_]NZ`\_V\_UTGYU^^]  
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a¥Jaabaaba\_aa\_aabaaa`aa`\_ZYY¥a`\_\_a`a]X]\_  
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aaaaa```abaaa\_\_aaa¥aaaa`¥`]aa\_\_`\_Z\_\_a`\_  
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+HWI-EAS443:3:43:214:290#0/1  
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a\_ba\_`\_\_Y¥D¥a]\_\_T¥a0^\_P\_Z\_Y^VR[PLU`^[]XN  
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a`b\_Y\_a¥NZXaa^G\_`^\_aaaX\_[]TMXU^]]^]]ZN

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W\_\_^^`a`Y^a^`abP^`[¥]````^W^RXaaWWVOX^`^  
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a`aaaa`a\_aa`\_`WY]aa\_^]\_`\_`\_aZ``\_\_\_`^Z[]`  
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ab`\_baababb\_^)^^`a\_aaa``a```b\_[``]`X^^[a  
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a\_[^Ya`a`a`\_U^¥\_a^a^`\_V[ZU¥Y[UWSW[SURR¥  
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abb¥ababa\_aba`aaabaaa`\_aa\_aaaaaa¥aaaaa[  
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+HWI-EAS443:3:49:156:1284#0/1  
aa[a\_\_ab[^[^aaaabYXaa`a`^`¥^aa^\_Xaa\_\_GZ^\_

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ab`aabb`Zba\_baaaa`a\_`a`\_\_\_\_\_a[`a¥``a[``  
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+HWI-EAS443:3:49:755:369#0/1  
aaabaa\_\_\_\_\_ab\_abaa`a`aab^¥``\_`a\_a\_\_¥\_\_\_\_a]  
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+HWI-EAS443:3:50:1359:1265#0/1  
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a[\_ba¥^aaaa`^Z^\_b`\_`\_¥¥^`R[]`a\_^`TLW\_^Z  
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a`aa\_aa`\_]`^`aXaa^a[\_[^\_\_QRX^\_\_][`X\_^][^¥R  
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]`abYa]\_]`^a[]\_````Waa`a`^^^a\_^\_\_¥[\_][\_\_  
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a`a]P\_[^aXa\_`^\_\_¥`\_] [V¥]¥QL¥SZ¥W`UXX\_¥]]  
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+HWI-EAS443:3:81:395:437#0/1  
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a\_¥XWbba]Yb\_\_Ubab\_\_a\_abab[[a[aa\_a\_a^\_[^`  
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aaYaaZ¥]]aa[TKVY]`aaa`^`^`^`[aa][^`\_\_^R]]\_  
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@HWI-EAS443:3:95:853:1222#0/1  
GCAAAAGCAGGGTAGATAATCACTCAATGAGTGACATCGA  
+HWI-EAS443:3:95:853:1222#0/1  
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AAAGCAGGGTAGATAATCACTCAATGAGTGACATCGAAGC  
+HWI-EAS443:3:95:915:720#0/1  
a]XVRH\_`T¥`ZaYY¥a[\_¥N\_a[\_YZLQ¥P]`Ua`SYG  
@HWI-EAS443:3:96:1297:972#0/1  
GAAATAAGACCCTTCATTACTCATGTCAAAGGAAGGCACG  
+HWI-EAS443:3:96:1297:972#0/1  
a\_\_^a`a\_]UU¥`a^`a\_X`\_]`\_]^^]Y\_\_]\_Y^X\_YB  
@HWI-EAS443:3:96:700:630#0/1  
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+HWI-EAS443:3:96:700:630#0/1  
a\_aa`U^^`aZ`aa\_\_a```\_]]]]S\_Y]TT]X]^\_T]  
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GTCATACTCCTCTGCATTGTCTCCGAAGAAATAAGACCCT  
+HWI-EAS443:3:96:963:479#0/1  
[X\_ab¥aaaa]\_[b\_b\_0][[\_a\_bY^a^\_\_^aa\_\_QURa

@HWI-EAS443:3:97:1378:1118#0/1  
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+HWI-EAS443:3:97:1378:1118#0/1  
aa^]]bb]T^V¥]VXaZa¥Z`^a\_a[`SJRNR\_]]]YXX  
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+HWI-EAS443:3:97:43:510#0/1  
^`T\_YN]]\_ZXQTZYQWRURZR¥¥VX]]^YN¥[QZ[V[V¥  
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+HWI-EAS443:3:97:474:1334#0/1  
Y¥VY`\_Y\_^`a`XZZ]aYZ`S^Za\_N]^]\_Sa`^Z^N  
@HWI-EAS443:3:97:572:248#0/1  
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+HWI-EAS443:3:97:572:248#0/1  
aa`a¥aaaX^R]a`\_a\_R^¥`]]a^\_X]\_U\_]`^¥]XXX]  
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+HWI-EAS443:3:97:783:1595#0/1  
aa\_aa`Qbaaaaa`aab`aaa`[``\_a`^]\_Z\_\_Y\_a  
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+HWI-EAS443:3:97:840:1103#0/1  
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+HWI-EAS443:3:97:946:55#0/1  
aa`b`bbabbbab\_abbaab`\_ab`aab]a[`aaVa\_aZa  
@HWI-EAS443:3:98:1151:78#0/1  
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+HWI-EAS443:3:98:1151:78#0/1  
`ba¥\_abbba^¥b¥a`aba\_aaa`\_`Z\_\_^V\_aR`¥`^]  
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ATCGAAGCCATGGCGTCTCAAGGCACCAAACGATCATATG  
+HWI-EAS443:3:98:1246:613#0/1  
ab`\_]bb``aaaa`b¥`aa`\_`aaa]¥a\_a\_a^a]```a[  
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+HWI-EAS443:3:98:1360:323#0/1  
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CAAAAGCAGGGTAGATAATCACTCAATGAGTGACATCGAA  
+HWI-EAS443:3:98:1698:105#0/1  
G[ZUaaUU[aZG^[[^[[UF]¥]Y[PbY^YaY[D[WEWYU  
@HWI-EAS443:3:98:415:874#0/1  
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+HWI-EAS443:3:98:415:874#0/1  
¥¥X\_^]aaaa^VKa^a`ZYZZ][]^\_]Y[YYQZ\_\_][WR][  
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GATCGTTTGGTGCCTTGAGACGCCATGGCTTCGATGTCAC

+HWI-EAS443:3:98:591:415#0/1  
^^XYQQ¥`RUa]¥Y¥]Sa[[J¥` [PY^\_Q¥X^UXWB BBB  
@HWI-EAS443:3:98:66:560#0/1  
AGCAAAGCAGGGTAGATAATCACTCAATGAGTGACATCG  
+HWI-EAS443:3:98:66:560#0/1  
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GCAAAGCAGGGTAGATAATCACTCAATGAGTGACATCGA  
+HWI-EAS443:3:98:719:1295#0/1  
a\_`Y[X¥UXa`\_N` []^\_\_¥\_¥VT[\_V^\_¥\_S¥\_Y\_[UZ¥  
@HWI-EAS443:3:98:882:1699#0/1  
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+HWI-EAS443:3:98:882:1699#0/1  
\_I¥`^`\_aUbURYTWZ]b\_URWaa`[S\_]aYG`^aaTZ\_\_Q  
@HWI-EAS443:3:99:1248:1334#0/1  
AAAGCAGGGTAGATAATCACTCAATGAGTGACATCGAAGC  
+HWI-EAS443:3:99:1248:1334#0/1  
abaa[a` `a\_aaabb`a`aRa¥a`aaaa^aa^aa]`¥aa]  
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+HWI-EAS443:3:99:142:1463#0/1  
^O]¥LYPYXa\_¥¥G^W]aU\_TVXRWZ[YVXX[] [¥WZYVR  
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+HWI-EAS443:3:99:600:1657#0/1  
a\_` ``GZKa^` ``IYTRaaS^` `a\_\_YY\_\_\_\_^]G^Q¥\_X\_  
@HWI-EAS443:3:99:950:1360#0/1  
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+HWI-EAS443:3:99:950:1360#0/1  
abT`Xaabaa` `R¥\_TVaababba`bS` ` ``^P[b¥a\_\_a  
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+HWI-EAS443:3:99:969:782#0/1  
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AAGCAGGGTAGATAATCACTCAATGAGTGACATCGAAGCC  
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a`aa` `\_ORba` `\_aaa`\_a[``aa`W[``U`aZ^a]\_SZ  
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¥aab]bab\_`¥`a¥`bbbbaaaaab\_a`aa]a\_aaaaa[a  
@HWI-EAS443:3:9:1467:1307#0/1  
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+HWI-EAS443:3:9:1467:1307#0/1  
`ab`ba` \_[``\_aa[aaaaZ]]`WY\_aaZaXWaN` ]^P^aU  
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TAGATAATCACTCAATGAGTGACATCGAAGCCATGGCGTC  
+HWI-EAS443:3:9:1488:473#0/1  
aabaaaaaaa`b\_a\_ab\_b^`aZaa^\_\_`\_]`^]a` ]R\_]X

@HWI-EAS443:3:9:1547:101#0/1  
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+HWI-EAS443:3:9:1547:101#0/1  
^ba`^baaaU\_b[Ibabaab^¥ZZT]Ga[`\_a\_WZGZ\_\_U  
@HWI-EAS443:3:9:812:1860#0/1  
GGTAGATAATCACTCAATGAGTGACATCGAAGCCATGGCG  
+HWI-EAS443:3:9:812:1860#0/1  
]OG]]W[]]\_a`aZ[U]^\_YPSU\_[PKUUWTRXWWN¥WBB  
@HWI-EAS443:3:96:1591:107#0/1  
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+HWI-EAS443:3:96:1591:107#0/1  
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+HWI-EAS443:3:29:1766:1780#0/1  
aa`]]\_\_Gbaa`\_N\_[[¥V^\_]S]X¥[RG]`BBBBBBBBB  
@HWI-EAS443:3:94:1372:327#0/1  
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+HWI-EAS443:3:94:1372:327#0/1  
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CTTCCGACAGATGCTCTGATTTCTGTGGCATCCTGGTGCT  
+HWI-EAS443:3:73:582:944#0/1  
``bbb`\_b¥baa`a`a`UZa\_\_QXYES^aaQ^aWZ]]\_^^]  
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CTCCATTTGTTTCATATGATCGTTTGGTGCATTGAGACGCC  
+HWI-EAS443:3:19:1060:682#0/1  
\_V]\_^T]TZ\_QVMG[`aW]`RZV]ZRTYGYVBBBBBBBBB  
@HWI-EAS443:3:26:798:532#0/1  
CATTTGTTTCATATTATCGTTTGGTGCCTTGAGACGCCATG  
+HWI-EAS443:3:26:798:532#0/1  
a`¥XZ`\_¥^¥`¥YF[\_]\_`S[ZRHU\_]`b\_\_Y`[]\_`^\_B  
@HWI-EAS443:3:31:74:1343#0/1  
GTTTCATATGATCGTTTGGTGCCTTGAGACGCCACGGCTTC  
+HWI-EAS443:3:31:74:1343#0/1  
a^`^^Z\_ULFXaZWY^ZTR\_a`¥\_[VYWa]^ZBBBBBBBBB  
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GCGTTCCCATCGAGTCTCCATTTGTTTCATATGATCGTTTG  
+HWI-EAS443:3:42:1267:687#0/1  
abaaaaababbaaa\_aa`a`a`a`a`aaaa`a\_b\_aaa  
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+HWI-EAS443:3:43:938:667#0/1  
`aa`babbaaabbaabbaaa`abba^a`aaaZ^]a\_``]\_  
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+HWI-EAS443:3:62:1034:1925#0/1  
a]UJ\_Wa`ab`[X\_¥\_MXa¥]`bUbG]LQTa`aaY]]`a  
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+HWI-EAS443:3:62:287:889#0/1  
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+HWI-EAS443:3:76:1062:1881#0/1  
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@HWI-EAS443:3:16:751:437#0/1  
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+HWI-EAS443:3:16:751:437#0/1  
aaaaaaba`aaabaaba\_b\_aaa\_Saa\_\_aa^XDP¥\_]`  
@HWI-EAS443:3:18:1032:939#0/1  
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+HWI-EAS443:3:18:1032:939#0/1  
a^aaabbbabaa`aaaaa`\_\_Y]^aaa`Za\_\_a\_\_][XY  
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a`babbbbaaababaaabaab¥a]b`¥`aa`a`a`a`a`a`  
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TCCATTTGTTTCATATGATCGTTTGGTGCCTTGAGACGCCA  
+HWI-EAS443:3:11:1194:41#0/1  
aa\_X¥a[a\_a[Q[[aa[\_V`V`^X[a\_V\_ZZV¥V¥ZUW¥  
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GTCTCCATTTGTTTCATATGATCGTTTGGTGCCTTGAGACG  
+HWI-EAS443:3:11:95:395#0/1  
`N\_\_a`[\_`\_[V\_\_^Y¥\_`[^]`]^`\_H\_\_[^]\_W^Z[X  
@HWI-EAS443:3:12:1090:125#0/1  
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+HWI-EAS443:3:12:1090:125#0/1  
abab`^[ZHaa`¥`]]aba`\_a`¥aaaa`\_Q\_\_\_\_a`]¥^  
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TCCATTTGTTTCATATGATCGTTTGGTGCCTTGAGACGCCA  
+HWI-EAS443:3:13:1028:1180#0/1  
`aaZ^]\_XT\_`]^\_]`[^`YWZ¥a\_KK¥V[]RX^`^^SZBB  
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+HWI-EAS443:3:14:933:270#0/1  
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+HWI-EAS443:3:15:738:767#0/1  
abaabbbbaaaaaabbaaa`YaabaYaaaaa\_aa`a^W  
@HWI-EAS443:3:15:924:743#0/1  
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+HWI-EAS443:3:15:924:743#0/1  
aaab\_abab^aab^baba¥`\_`a\_aU\_`^`\_`W`]U^aR  
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+HWI-EAS443:3:17:1614:935#0/1  
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@HWI-EAS443:3:17:251:305#0/1  
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]bbabbbbbabbbbbbbbaZabbbab\_aW[b`a\_ba\_a]\_  
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+HWI-EAS443:3:24:559:231#0/1  
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+HWI-EAS443:3:24:702:1503#0/1  
a[ ` []bba]b]bbbabb]b\_^\_aba^U`abZY]\_aaa`a]  
@HWI-EAS443:3:26:1509:732#0/1  
TCCATTTGTTTCATATGATCGTTTGGTGCCTTGAGACGCCA  
+HWI-EAS443:3:26:1509:732#0/1  
^UZ]^a]]\_a[aaaa\_a^a`^`^]U\_]Y[¥]]\_Y[Z^BB  
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+HWI-EAS443:3:26:550:448#0/1  
aabaabaaab^¥a`\_aaaa`\_a^aa]]Ua` `a` [¥¥[¥Z  
@HWI-EAS443:3:27:517:1831#0/1  
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+HWI-EAS443:3:27:517:1831#0/1  
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+HWI-EAS443:3:28:249:1651#0/1  
ab¥W[ `a`a^`^`^`^`aaXa¥` `¥VX]^]¥\_aZ^\_]^^\_a  
@HWI-EAS443:3:29:1667:1368#0/1  
CTCCATTTGTTTCATATGATCGTTTGGTGCCTTGAGACGCC  
+HWI-EAS443:3:29:1667:1368#0/1  
aY\_J¥]¥[¥X\_X¥^\_UUY^a^`ab]TTaOS]aa\_\_a`BBB  
@HWI-EAS443:3:31:216:279#0/1  
CTCCATTTGTTTCATATGATCGTTTGGTGCCTTGAGACGCC  
+HWI-EAS443:3:31:216:279#0/1  
a¥P` [a`a]U\_a\_\_\_`a¥a]\_Sa\_aVU\_\_\_\_\_^\_Y\_\_^U\_]`  
@HWI-EAS443:3:33:437:442#0/1  
GAAGCCATGGCGTCTCAAGGCACCAAACGATCATATGAAC  
+HWI-EAS443:3:33:437:442#0/1  
abbaabYaa]abTaaa]aaaa\_aaa\_a` `^\_¥\_\_\_\_\_^\_V  
@HWI-EAS443:3:33:85:1121#0/1  
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+HWI-EAS443:3:33:85:1121#0/1  
aabbababba`\_aab¥Z¥^ba\_`WZ\_aa^`ba`a\_a\_X`V  
@HWI-EAS443:3:35:309:897#0/1  
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+HWI-EAS443:3:35:309:897#0/1  
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@HWI-EAS443:3:3:1576:1116#0/1  
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+HWI-EAS443:3:3:1576:1116#0/1  
a`abaaaab`b\_ab^aab\_bba`^][aa`]a]``]]^  
@HWI-EAS443:3:40:631:52#0/1  
GAAGCCATGGCGTCTCAAGGCACCAAACGATCATATGAAC  
+HWI-EAS443:3:40:631:52#0/1  
aaa^aa`aaaaa^a\_\_¥aaa\_^a\_¥WF[]\_ZWXY^^\_YZ  
@HWI-EAS443:3:42:938:224#0/1  
CTCCATTTGTTTCATATGATCGTTTGGTGCCTTGAGACGCC  
+HWI-EAS443:3:42:938:224#0/1  
S\_\_¥a[I\_¥^\_W]]][a[\_Y^`b\_IZab]bYbabS`ab[  
@HWI-EAS443:3:44:1536:446#0/1  
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+HWI-EAS443:3:44:1536:446#0/1  
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+HWI-EAS443:3:44:340:263#0/1  
aVa]a`YZVaZR\_ZJ]¥`ZS[Za[^¥`\_U\_R[\_X¥]TZKX  
@HWI-EAS443:3:48:818:1095#0/1  
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+HWI-EAS443:3:48:818:1095#0/1  
\_\_`[¥W\_\_Za]¥\_V¥`[Z`aa[OZT]``\_X[YU[^Q]OX[  
@HWI-EAS443:3:49:596:733#0/1  
TCCATTTGTTTCATATGATCGTTTGGTGCCTTGAGACGCCA  
+HWI-EAS443:3:49:596:733#0/1  
aaaaaaaaaaaaaaaaa\_a^a^aa]aW`Z`a```^^\_^^]Z`  
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+HWI-EAS443:3:50:1743:1344#0/1  
aa]^aaabYa\_`aab\_`¥^UaaaaU]\_\_a\_a^\_\_Z^SPX  
@HWI-EAS443:3:52:221:417#0/1  
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+HWI-EAS443:3:52:221:417#0/1  
aaa^\_\_aab````aaaa^X\_aXaa`aU`^[^¥a\_a^X^[^  
@HWI-EAS443:3:54:1230:1122#0/1  
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+HWI-EAS443:3:54:1230:1122#0/1  
aa\_bba^aa`^ba\_bab`ab\_aV`\_`abbaaa^a`¥¥X^  
@HWI-EAS443:3:55:14:1323#0/1  
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+HWI-EAS443:3:55:14:1323#0/1  
HJ\_`b]VW[\_`aaaab^b`\_\_`[\_`b```YQ[\_aaaS\_a\_U  
@HWI-EAS443:3:55:680:1181#0/1  
CTCCATTTGTTTCATATGATCGTTTGGTGCCTTGAGACGCC  
+HWI-EAS443:3:55:680:1181#0/1  
a][HO\_b`TYVZUa¥`WLZ`ZSY^]QOa`\_a\_`^[V¥N]B

@HWI-EAS443:3:58:952:124#0/1  
CTCCATTTGTTTCATATGATCGTTTGGTGCCTTGAGACGCC  
+HWI-EAS443:3:58:952:124#0/1  
abaabbbbbbbbabbbbbab`bbbbbb`baabbbaba`a^¥  
@HWI-EAS443:3:60:1136:1054#0/1  
CTCCATTTGTTTCATATGATCGTTTGGTGCCTTGAGACGCC  
+HWI-EAS443:3:60:1136:1054#0/1  
aa``abbbbababaabba`X[aaa¥aTq]`a`W¥a`WZa^  
@HWI-EAS443:3:60:1325:786#0/1  
CATTTGTTTCATATGATCGTTTGGTGCCTTGAGACGCCATG  
+HWI-EAS443:3:60:1325:786#0/1  
`b`baaaaabbbbbbbbaabbbbYb``ba\_`a\_\_`aV¥Ya  
@HWI-EAS443:3:63:1184:961#0/1  
GAAGCCATGGCGTCTCAAGGCACCAAACGATCATATGAAC  
+HWI-EAS443:3:63:1184:961#0/1  
aab`ba`^`[bba]aa\_bbb`Zab``aaa`\_``aaa^b`]`  
@HWI-EAS443:3:65:1786:1824#0/1  
GGCGTCTCAAGGCACCAAACGATCATATGAACAAATGGAG  
+HWI-EAS443:3:65:1786:1824#0/1  
Z`bb^bbZW`a]\_]^\_TW^^aXJNP¥Z\_^XZV¥OVV[XJR  
@HWI-EAS443:3:65:575:1625#0/1  
TCCATTTGTTTCATATGATCGTTTGGTGCCTTGAGACGCCA  
+HWI-EAS443:3:65:575:1625#0/1  
\_a```b\_¥^abbbb``aa`baZZU`aaa`\_\_\_\_¥XZ`a  
@HWI-EAS443:3:65:636:1582#0/1  
GCGTCTCAAGGCACCAAACGATCATATGAACAAATGGAGA  
+HWI-EAS443:3:65:636:1582#0/1  
\_]YQRXTOVY]V\_ZYQ[[]\_]RO\_VYZRYLRQVXPRYR]Y  
@HWI-EAS443:3:66:1410:670#0/1  
CTCCATTTGTTTCATATGATCGTTTGGTGCCTTGAGACGCC  
+HWI-EAS443:3:66:1410:670#0/1  
abaa[aaaaaaaaab^baY\_`a`baa\_^a``aaa\_]`^\_^\_  
@HWI-EAS443:3:67:695:1284#0/1  
CTCCATTTGTTTCATATGATCGTTTGGTGCCTTGAGACGCC  
+HWI-EAS443:3:67:695:1284#0/1  
aaa`]a`aa`\_`\_]`aaa\_aa`Z```¥R^a\_aX\_^YTa[`\_  
@HWI-EAS443:3:67:859:127#0/1  
GTCTCCATTTGTTTCATATGATCGTTTGGTGCCTTGAGACG  
+HWI-EAS443:3:67:859:127#0/1  
aaa`a`\_`b`]`\_\_\_\_\_Z]]a]a`a\_U\_^]]\_Y\_]X  
@HWI-EAS443:3:69:1131:966#0/1  
TCCATTTGTTTCATATGATCGTTTGGTGCCTTGAGACGCCA  
+HWI-EAS443:3:69:1131:966#0/1  
`b`aab`b\_a]bbabb`aaa\_\_ba\_V`aYa\_aaaa\_\_[X\_  
@HWI-EAS443:3:6:1218:1000#0/1  
ATTTGTTTCATATGATCGTTTGGTGCCTTGAGACGCCATGG  
+HWI-EAS443:3:6:1218:1000#0/1  
aabb^`aba`^^a[bV\_`bbY`Waa\_baaaa`V^XS]^S`  
@HWI-EAS443:3:74:470:1219#0/1  
GCGTCTCAAGGCACCAAACGATCATATGAACAAATGGAGA

+HWI-EAS443:3:74:470:1219#0/1  
a¥¥`¥Z]^^\_X]`\_\_¥`^MOLY\_YRGZZZ\_]YVWQU`^Z  
@HWI-EAS443:3:75:1269:1447#0/1  
CATTTGTTTCATATGATCGTTTGGTGCCTTGAGACGCCATG  
+HWI-EAS443:3:75:1269:1447#0/1  
\_¥bbbbab\_bbbba`^`bbab[bU``bababba\_L\_PY  
@HWI-EAS443:3:76:1295:1053#0/1  
TCCATTTGTTTCATATGATCGTTTGGTGCCTTGAGACGCCA  
+HWI-EAS443:3:76:1295:1053#0/1  
\_[U[`\_T00aYaaXTV0]`SZaa^XY[¥^aWTSSX^PLSW  
@HWI-EAS443:3:77:1455:1546#0/1  
CTCCATTTGTTTCATATGATCGTTTGGTGCCTTGAGACGCC  
+HWI-EAS443:3:77:1455:1546#0/1  
`^¥bbbbabbb\_babbbab`babbbbaNa\_aaababaa\_`]  
@HWI-EAS443:3:7:1195:314#0/1  
GGCGTCTCAAGGCACCAAACGATCATATGAACAAATGGAG  
+HWI-EAS443:3:7:1195:314#0/1  
a`¥`Y¥```a\_\_\_ZWZ\_[U`Y^Q¥]\_\_¥YWXPW¥\_V¥`  
@HWI-EAS443:3:7:572:1773#0/1  
CATTTGTTTCATATGATCGTTTGGTGCCTTGAGACGCCATG  
+HWI-EAS443:3:7:572:1773#0/1  
^ZZ`^\_aab```]\_a^bbUaabSNaXXa\_\_^\_\_a\_Y[`U\_  
@HWI-EAS443:3:81:1420:1079#0/1  
GGCGTCTCAAGGCACCAAACGATCATATGAACAAATGGAG  
+HWI-EAS443:3:81:1420:1079#0/1  
Zb]b^`b¥aabaaa\_aaaaab\_^\_\_`aa^`S\_]`^`X[a  
@HWI-EAS443:3:82:504:473#0/1  
ATTTGTTTCATATGATCGTTTGGTGCCTTGAGACGCCATGG  
+HWI-EAS443:3:82:504:473#0/1  
\_]a`¥]a`\_babb\_Zaaabbb[PYT```][aIb\_aQUW`Z  
@HWI-EAS443:3:84:391:1997#0/1  
CTCCATTTGTTTCATATGATCGTTTGGTGCCTTGAGACGCC  
+HWI-EAS443:3:84:391:1997#0/1  
`bb]TZJ\_¥H¥ba`\_]`][`XXaaYUaa`YM\_a`aaX]\_  
@HWI-EAS443:3:90:459:531#0/1  
CGTCTCAAGGCACCAAACGATCATATGAACAAATGGAGAC  
+HWI-EAS443:3:90:459:531#0/1  
a^¥a```Y\_`VW`aaZaaaa[^¥]aaaa`aa\_Y\_[[XZ[W  
@HWI-EAS443:3:93:538:1997#0/1  
TCCATTTGTTTCATATGATCGTTTGGTGCCTTGAGACGCCA  
+HWI-EAS443:3:93:538:1997#0/1  
`]b\_`aab]aa``aaa[`a\_Uaa\_\_^`\_]Z^\_\_`a¥YXN`  
@HWI-EAS443:3:94:1031:623#0/1  
CTCCATTTGTTTCATATGATCGTTTGGTGCCTTGAGACGCC  
+HWI-EAS443:3:94:1031:623#0/1  
aa]YW\_ZTOL\_X\_X]]\_WV]^¥]\_YP¥^UWX`[XWPXYR  
@HWI-EAS443:3:95:1420:581#0/1  
CATTTGTTTCATATGATCGTTTGGTGCCTTGAGACGCCATG  
+HWI-EAS443:3:95:1420:581#0/1  
aab`aaXaabba\_aa[a¥aaZaIb`^b^aY`Z``GV¥\_`

@HWI-EAS443:3:96:160:375#0/1  
ATTTGTTTCATATGATCGTTTGGTGCCTTGAGACGCCATGG  
+HWI-EAS443:3:96:160:375#0/1  
\_¥aZaX^\_V\_b` `]Z\_ba\_V\_WD[XV\_`aa\_ZXTWG^[BB  
@HWI-EAS443:3:9:1048:1209#0/1  
CAAGGCACCAAACGATCATATGAACAAATGGAGACTGGTG  
+HWI-EAS443:3:9:1048:1209#0/1  
ab\_bbaa]abaaaa\_aaabaaa`aZ`\_aaaa`a\_¥`a\_¥a  
@HWI-EAS443:3:9:1281:276#0/1  
GTCTCCATTTGTTTCATATGATCGTTTGGTGCCTTGAGACG  
+HWI-EAS443:3:9:1281:276#0/1  
a]\_\_UN]^`^V\_U]\_\_]\_X^VRV^^^X]UX^\_NXYYY  
@HWI-EAS443:3:79:374:100#0/1  
GATTTGTCCTTCCAGGGCGGGGAGTCTTCGAGATTTCCG  
+HWI-EAS443:3:79:374:100#0/1  
a`S\_\_Z\_] ^¥PRY]`XP[SQ^BBBBBBBBBBBBBBBBBBB  
@HWI-EAS443:3:35:1450:1904#0/1  
CGGACATTGATTCCACGTTTGATCATTCTGATTAACCTA  
+HWI-EAS443:3:35:1450:1904#0/1  
a`TDM\_bUbY`\_Sa^aSa\_^aX^[S[G\_`\_\_a`\_]\_YL[  
@HWI-EAS443:3:84:1338:375#0/1  
CGCATTCCACGTTTATCATTCTGATTAACCTCATTGCTA  
+HWI-EAS443:3:84:1338:375#0/1  
aba]`b[a` `b\_a^DVaZaaa`bbab\_aaaaaa`baa^aa  
@HWI-EAS443:3:76:1348:919#0/1  
CCCCTCTGGTCTTATGGCCAGTATCTGCTTCTTAGTT  
+HWI-EAS443:3:76:1348:919#0/1  
`]QWbab` `a]ZOWY]Z]a`UY`]GO^X]¥JUTV\_]¥^¥  
@HWI-EAS443:3:3:703:604#0/1  
AGCCCCTGGAAGACAAATCTTCTGGCTTTGCAATTTCCA  
+HWI-EAS443:3:3:703:604#0/1  
]baWb`Wa`a`]XaY^aa\_JYya`[a\_`]W^WF¥aYWX]  
@HWI-EAS443:3:35:1511:658#0/1  
TCGCATTCCACGTTTGATCATTCTGATTAACCTCATTGCT  
+HWI-EAS443:3:35:1511:658#0/1  
¥]aaaab\_b^ab` `a\_`a\_^aaaaaa\_U\_Q]aa` `a`aO\_  
@HWI-EAS443:3:38:609:1570#0/1  
CAGAAGATTTGTCCTTCCAGGGCGGGGAGTCTTCGCGCT  
+HWI-EAS443:3:38:609:1570#0/1  
aaa`X`ZV[X^R]^Y^`\_`^VSJVBBBBBBBBBBBBBBBBBB  
@HWI-EAS443:3:48:392:1271#0/1  
TCGCATTCCACGTTTGATCATTCTGATTAACCTCATTGCT  
+HWI-EAS443:3:48:392:1271#0/1  
a^]¥aaaa`a\_baaa`a` `\_\_` `a^aa`\_V`S^]` `\_[`  
@HWI-EAS443:3:59:390:1960#0/1  
CAATCATTCTTCCGACAGATGCTCTGATTTCTGTGGAATC  
+HWI-EAS443:3:59:390:1960#0/1  
U[aa]¥\_aaW^`\_QXH^`\_RY[¥\_[¥W`aZU\_¥]VRZ\_F  
@HWI-EAS443:3:62:974:924#0/1  
CTCCTTATTTCTTCTTTGTCATAAAGGATGAGTTCTGTCA

+HWI-EAS443:3:62:974:924#0/1  
abbabbaabbabbbbbbbaaa\_ba[Y¥[]UDZ\_Z  
@HWI-EAS443:3:63:289:690#0/1  
TCGCATTCCACGTTTGATCATTCTGATTAACTCCATTGCT  
+HWI-EAS443:3:63:289:690#0/1  
^aa\_¥`a\_`\_^a`]WI^`ba]^``¥]\_`a^a`V¥]]`^  
@HWI-EAS443:3:64:318:539#0/1  
GCCGGGATGCCACAGAAATCAGAGCATCTGTCGGAAGAAT  
+HWI-EAS443:3:64:318:539#0/1  
aaa`W\_`]aa\_\_\_aa]```\_a]a][\_\_\_^¥V^^^U¥¥Z^W  
@HWI-EAS443:3:87:510:1748#0/1  
GCGCATTCCACGTTTGATCATTCTGATTAACTCCATTGCT  
+HWI-EAS443:3:87:510:1748#0/1  
]aab`^]`bbbb\_aaba\_abbbababaa```ab\_aa```a  
@HWI-EAS443:3:12:192:1542#0/1  
AATCATTCTTCCGACAGATGCTCTGATTTCTTTGGCATCC  
+HWI-EAS443:3:12:192:1542#0/1  
```aa`R\_UVZa`\_aaLP^W\_\_YP]OFM[]JNDVQTZ¥KUB  
@HWI-EAS443:3:13:940:1954#0/1
GAAATCAGAGCATCTGTCGGAAGAATGATTGTTGGAATCG
+HWI-EAS443:3:13:940:1954#0/1
Y`]_`¥¥bb_aa¥_```a]¥aYN__NV_]a^HY[J]_WU^
@HWI-EAS443:3:14:1619:310#0/1
ATTCCACGTTTGACCATTCTGATTAACTCCATTGCTATTG
+HWI-EAS443:3:14:1619:310#0/1
aaa_ZaSa[a`a_¥Y__`W_] [_`_^__WX^_]`Z_^_Z_
@HWI-EAS443:3:17:1601:1787#0/1
GAAATCAGAGCATCTGGCGGAAGAATGATTGGTGAATCG
+HWI-EAS443:3:17:1601:1787#0/1
]`T_aa]bV`abI`S_J0¥QVTZP[XVSV[U¥Y_VUTXGS
@HWI-EAS443:3:17:629:363#0/1
ATCATTCTTCCGACAGATGCTCTGGTTTCTGTGGCATCCT
+HWI-EAS443:3:17:629:363#0/1
a]aba^a`ba^_¥H¥Z[aT`X`aQ]__¥Z`WHNYGSSYX
@HWI-EAS443:3:18:933:535#0/1
AGAGAACTCATCCTTTATGACAAAGAAGCAATAAGGAGAG
+HWI-EAS443:3:18:933:535#0/1
RZZXR)`W¥`bb`^¥a___¥¥¥¥^`Pa_HS^]aa]]_a`a
@HWI-EAS443:3:23:1278:764#0/1
GGAACAATAGCAATGGAGTTAATCAGAGTGATCAAACGTG
+HWI-EAS443:3:23:1278:764#0/1
aa_aa`abaaaa^`_Y`__a`a`U_]a^^a_`^^____Z_
@HWI-EAS443:3:2:271:599#0/1
CTTGTGTGTATGGGCTTGCAGTAGGAAGTGGGCATGACTT
+HWI-EAS443:3:2:271:599#0/1
^bUb_bHa]aZXV[```aa_LaUWXMQ`_^SaP[_[[NDL]
@HWI-EAS443:3:33:863:229#0/1
CGGTCAATTGATTCCACGTTTGATCATTCTAATTAACTCCA
+HWI-EAS443:3:33:863:229#0/1
_ZWY]XW¥_baa_W^X¥a[X]PTTU_XV_W[`Ua¥RXW[S

@HWI-EAS443:3:38:470:464#0/1
GAGAGAACTCATCCTTTATGACAAAGAAGAAAAAAGGAGA
+HWI-EAS443:3:38:470:464#0/1
a^a`_aaa_____aa`a`a_____W^`ZW^]Z¥`Z^_Z
@HWI-EAS443:3:39:971:144#0/1
CAATCATTCTCCGACAGATGCTCTGCTTTCTGTGGCATC
+HWI-EAS443:3:39:971:144#0/1
abba[`ba^aab¥aaa`Uaa`a¥aa`[`ZUUZG[SMV¥R
@HWI-EAS443:3:40:1746:313#0/1
CAGGATGCCACAGAAATCAGAGCATCTGGCGGAAGAATGA
+HWI-EAS443:3:40:1746:313#0/1
[a_baaa^a_^abaaaba`b_bU^_Za_GRaa]_b_^¥aQ
@HWI-EAS443:3:47:1228:511#0/1
GCCACAGAAATCAGAGCATCTGTCCGGAAGAGTGATTGGTG
+HWI-EAS443:3:47:1228:511#0/1
S__abbba`UYbbb^`aaZ]bbaWQ_^ZU¥JX[V^a`UG_
@HWI-EAS443:3:53:758:498#0/1
ATTCCACGTTTGACCATTCTGATTAACCTCCATTGCTATTG
+HWI-EAS443:3:53:758:498#0/1
]b_abbaabb`]^a`aab`abab`_a_aa]aaba_ba`a`
@HWI-EAS443:3:54:1605:283#0/1
CCGCCCCGGAAGGACAAATCTTCTGGCTTTGCAATTTCC
+HWI-EAS443:3:54:1605:283#0/1
`bab_aZ¥V_`a`a_b_`b`ab__aa`_a_a`Z`G`P`_I
@HWI-EAS443:3:57:1702:568#0/1
GTCCGGGAGCTCGAAGACTCCCCGCCCTGGAAGGACAAA
+HWI-EAS443:3:57:1702:568#0/1
^¥_J¥a`^VQ[UZ`Y`¥U[XX^YQFU[¥PQXPZBBBBB
@HWI-EAS443:3:59:1651:608#0/1
GCTCGAAGACTCCCCGCCTCTGGAAGGACAAATCTTCTGG
+HWI-EAS443:3:59:1651:608#0/1
aaaaaaaa`_a`aaa`a_`a`a__V`a^aaa¥`¥_WQ[SS
@HWI-EAS443:3:5:891:327#0/1
CACGTCTGATCATTCTGATTAACCTCCATTGCTATTGTTCC
+HWI-EAS443:3:5:891:327#0/1
ab_]aaab^¥T¥]¥`bbbababaa`TS¥a__[_`abaaaBB
@HWI-EAS443:3:69:1617:239#0/1
CCCTGGTAGGACAAATCTTCTGGCTTTGCACTTTCCATCA
+HWI-EAS443:3:69:1617:239#0/1
abbb`^K```a^]XT_aa^]a_```a_aN]]`a`^R]]XT
@HWI-EAS443:3:70:1582:258#0/1
ATTTGTCCTCCAGGGGCGGGGAGTCTTCGAGTTCTCGGA
+HWI-EAS443:3:70:1582:258#0/1
^`X`W`aabb`aW`b^T]b`aZ_WV¥]MTR_V_]Z]`aT
@HWI-EAS443:3:70:926:620#0/1
GGAGTTGGAACGATAGCAATGGAGTTAATCAGAATGATCA
+HWI-EAS443:3:70:926:620#0/1
ab_XYa¥a`U]¥YX][`[^]N]W____[_a`XQX_V[P]
@HWI-EAS443:3:7:463:808#0/1
CCGAGAGCTCGAAGGCTCCCCGCCCTGGAAGGACAAATC

+HWI-EAS443:3:7:463:808#0/1
aa`Ra`aX¥]¥Za_[]^`¥`a^ZIJT_RW`a^Y¥_^BB
@HWI-EAS443:3:80:1398:1558#0/1
CGCCCCTGGAAGGTCAAATCTTCTGGCTTTGCACTTTCCA
+HWI-EAS443:3:80:1398:1558#0/1
aa_W_ZOZba`abG`abaaW_a`aaaV_b_bG`UbabaW^
@HWI-EAS443:3:81:279:837#0/1
GCCCCTGGAAGGGCAAATCTTCTGGCTTTGCACTTTCCAT
+HWI-EAS443:3:81:279:837#0/1
aaaba_a_`ba`¥]Z_[]`aaaa_VZaa`__^`^`V^_a
@HWI-EAS443:3:84:1171:1056#0/1
AGGAGTTGGAACAATAGCAATGGAGTTAATCAGACTGATC
+HWI-EAS443:3:84:1171:1056#0/1
KY_T¥RX^XUV][¥X`b_Ya]aTX[]^a`a`RSPDMXRIU
@HWI-EAS443:3:87:588:1040#0/1
CGTCCGAGAGCTCGAAGACTCCCCGCCCTGGCAGGACAA
+HWI-EAS443:3:87:588:1040#0/1
`[]T[a[a_`^`_aa¥0¥a^^`a` `[WX^`UGT_X[]ZF
@HWI-EAS443:3:88:1159:587#0/1
CAGAAATCAGAGCATCTGGCGGAAGAATGATTGGTGGGAAT
+HWI-EAS443:3:88:1159:587#0/1
abbbbaa`baab`Ubaa_GV[`a`][baQ[^bbRY`_`Q
@HWI-EAS443:3:88:1426:1072#0/1
CTTGTGTGTATAGGCTTGCAGTAGCAAGTGGGCATGACTT
+HWI-EAS443:3:88:1426:1072#0/1
aabaab¥bbbbbbbbb`aa`b`ab`aaa_a`a_b`a_N_b
@HWI-EAS443:3:95:1043:91#0/1
TGCCTGCTTGTGTGTATGGGCTTGCAGTAGAAAGTGGGCA
+HWI-EAS443:3:95:1043:91#0/1
_ab[bb_S^a^[¥b^babab]X_]W[aYY^F[`__a__X^
@HWI-EAS443:3:99:481:638#0/1
CGCCAGGAAGCCACAGAAATCAGAGCATCTGTCCGAAGAA
+HWI-EAS443:3:99:481:638#0/1
aaXJ_Z]_bZU]ZXba]^^^T^Z_aa__WaaLJ¥¥XT`^a
@HWI-EAS443:3:9:1478:1682#0/1
GCCCCTGGAAGGACAAATCTTCTGGCTTTGCAATTTCCAT
+HWI-EAS443:3:9:1478:1682#0/1
aaa__aaaa^a^]a` `[a^X`_`_`__ZWDW__[Z`_`
@HWI-EAS443:3:19:197:538#0/1
ACCAATCATTCTCCGACAGATGCTCTGATTCTGTGTCA
+HWI-EAS443:3:19:197:538#0/1
_QU^ZXa`Y][`Y_a_XabaZ]ND0aaXXBBBBBBBBBBB
@HWI-EAS443:3:31:1242:1520#0/1
CGCATTCCACGTTTGATCATTCTGATTAACCTCATTGCTA
+HWI-EAS443:3:31:1242:1520#0/1
_babbbabbbabbaabb`bbbabbbabb`a`aab`b`ba
@HWI-EAS443:3:38:594:1526#0/1
GACTCCACCAATCATTCTCCGACAGATGCTCTGATTCT
+HWI-EAS443:3:38:594:1526#0/1
aababbbabb_Q`aabbaabaaa`[W^¥^KS]_^_^[¥¥

@HWI-EAS443:3:48:780:2018#0/1
CGCATTCCACGTTTGATCATTCTGATTAACCTCCATTGCTA
+HWI-EAS443:3:48:780:2018#0/1
`a_babb`aaa__aaaaabaab_bb`aa_`¥H]a^a__`
@HWI-EAS443:3:55:1103:542#0/1
CGCATTCCACGTTTGATCATTCTGATTAACCTCCATTGCTA
+HWI-EAS443:3:55:1103:542#0/1
ababbbabbbbaaabbabbbbaabbbbabaaaa`bba]a`
@HWI-EAS443:3:56:1194:1310#0/1
GGCGTTGGAACAATAGCAATGGAGTTAATCAGAATGATCA
+HWI-EAS443:3:56:1194:1310#0/1
_QDXP]]]]_ZXT[Y^Y[UZ^[RMSVY[^X^ZZ[^¥PQOU
@HWI-EAS443:3:76:270:1195#0/1
AGCATTCCACGTTTGATCATTCTGATTAACCTCCATTGCTA
+HWI-EAS443:3:76:270:1195#0/1
abb]aabbbaa_aaa]__`a_a__^^_[aa`]]`^ZX^¥a
@HWI-EAS443:3:84:1277:1327#0/1
CGCATTCCACGTTTGATCATTCTGATTAACCTCCATTGCTA
+HWI-EAS443:3:84:1277:1327#0/1
`ab_b`[aabababbbZabb`a__abb_ba`__babaaa
@HWI-EAS443:3:93:1310:399#0/1
GCGCCTGGAAGGACAAATCTTCTGGCTTTGCACTTCCAT
+HWI-EAS443:3:93:1310:399#0/1
aUFWZaa`S[`]_VY`V[[]`W¥TX]YW^RSZTT^BBBBB
@HWI-EAS443:3:27:666:219#0/1
GTCATGCCCACTTGCTACTGCAAGCCATACANACAAGCA
+HWI-EAS443:3:27:666:219#0/1
a__aaaba`aaa`Z` `[^a__¥[¥S¥_]ZVDS¥__^SS
@HWI-EAS443:3:33:472:340#0/1
TGGAAAGTGCAAAGCCAGAAGATTTGTCCTTCNAGGGGCG
+HWI-EAS443:3:33:472:340#0/1
aba`aab`baa^a_baaaW^a^`a`^`_]_RDX`¥Y¥]¥
@HWI-EAS443:3:35:1476:489#0/1
ATTCCACGTTTGATCATTCTGATTAANTCCATTGCTATTG
+HWI-EAS443:3:35:1476:489#0/1
abaaabab` `abaa`aaaa`aaaa`YDYaa`aaa]`_a[`
@HWI-EAS443:3:3:357:1233#0/1
CAANCATTCTCCGACAGATGCTCTGATTTCTGTGGCATC
+HWI-EAS443:3:3:357:1233#0/1
ab]D[bbabb_baababa[`ba`aba`b_Ibb_aaYaaY
@HWI-EAS443:3:43:1045:804#0/1
CGCCCCTGGAAGGACAAATCTTCTGGCTTNGCACTTCCA
+HWI-EAS443:3:43:1045:804#0/1
`ab`R`_a^¥_ST]RU¥`b_T`b_]X`bYD00]Y^b^Wa`
@HWI-EAS443:3:46:1451:1086#0/1
GCTTGTGTATGGGCTTGCAGTAGCAAGTNGGCATGACT
+HWI-EAS443:3:46:1451:1086#0/1
a_ba`aaab`aaaa_a_aa^^`_a`_____KD¥_¥¥_`¥W^
@HWI-EAS443:3:52:1432:600#0/1
GTTGGNACAATAGCAATGGAGTTAATCAGAATGATCAAAC

+HWI-EAS443:3:52:1432:600#0/1
_[a_QD[`a_aYaa^^`aT^^____]V]Z]^`a¥[[YSX^
@HWI-EAS443:3:52:1687:796#0/1
CTAAGAAGCAGATACTGNGCCATAAGGACCAGAAGTGGAG
+HWI-EAS443:3:52:1687:796#0/1
abbbb_aa`ab_bba`WD¥`]Zaabaaa__a```a]aV`a
@HWI-EAS443:3:63:1676:1069#0/1
AAAGGAGTTNGAACAAATAGCAATGGAGTTAATCAGAATGA
+HWI-EAS443:3:63:1676:1069#0/1
aZVZ]_`¥D^aa`a¥VY`_aaaaa]aa__`aa^NXa^
@HWI-EAS443:3:67:1651:1198#0/1
CGCNCCTGGAAGGACAAATCTTCTGGCTTTGCACTTTCCA
+HWI-EAS443:3:67:1651:1198#0/1
a`YD¥aaaaaaaa__aa_a^aaaa`^a`a`a`_Z`a_^__
@HWI-EAS443:3:14:656:1257#0/1
GCATTCCACGTTTGATCATTCTGATTAACTCCATTGCTAT
+HWI-EAS443:3:14:656:1257#0/1
a```a`_`XX_]_aZ^_aYS]^]K^_¥^]J]TWWYX¥^R
@HWI-EAS443:3:30:1389:1459#0/1
CAGAAGATTTGTCCTTCCAGGGGCGGGGAGTCTTCGAGGT
+HWI-EAS443:3:30:1389:1459#0/1
_¥_XYPYab`]Xa¥_W]a]]_a]`BBBBBBBBBBBBBBBB
@HWI-EAS443:3:30:146:40#0/1
GAGCTCGAAGACTCCCCGCCCTGGAAGGACAAATCTTTC
+HWI-EAS443:3:30:146:40#0/1
aT^][`_OT[`]Z]YTYSUXVZXPBBBBBBBBBBBBBBBB
@HWI-EAS443:3:42:837:1540#0/1
GCTGATTCCACGTTTGATCATTCTGATTAACTCCATTGCT
+HWI-EAS443:3:42:837:1540#0/1
aa_a^^aa`_^^[_Z[^¥^a_]`]]]```_____^_
@HWI-EAS443:3:12:594:1512#0/1
ATTTGTCCTTCCAGGGGCGGGGAGTCTTCGAGCTCTCGGG
+HWI-EAS443:3:12:594:1512#0/1
a```aaUaa^aaa`^YPI]BBBBBBBBBBBBBBBBBBBB
@HWI-EAS443:3:31:928:773#0/1
GGCCAGGATGCCACAGAAATCAGAGCATCTGTGGAAGAA
+HWI-EAS443:3:31:928:773#0/1
aaa`Tbbaab]]aab`_¥b_^a_a_]a```a_GZ^^^[_`_`
@HWI-EAS443:3:38:1410:605#0/1
TGCAAAGCCAGAAGATTTGTCCTTCCAGGGGCGGGGAGTG
+HWI-EAS443:3:38:1410:605#0/1
abbaa_aaa`a^]Ua_^aaY[_`_`^`aaXP[^aWPGSOL
@HWI-EAS443:3:40:1734:667#0/1
GGGTCATTGATTCCACGTTTGATCATTCTGATTAACTCCA
+HWI-EAS443:3:40:1734:667#0/1
H_b_^babbaabYabbbabbaba^b``bb`aabbb`^Za
@HWI-EAS443:3:45:241:363#0/1
CGTGTGTATGGGCTTGCAAGTAGCAAGTGGGCATGACTTTG
+HWI-EAS443:3:45:241:363#0/1
``````YUY\_``¥¥YZ^¥^N^ZW`X`Y^^YVXX`ZYT`]^

@HWI-EAS443:3:48:731:1378#0/1  
CCCCGAGCTCGAAGACTCCCCGCCCTGGAAGGACAAAT  
+HWI-EAS443:3:48:731:1378#0/1  
`]^^[^baUaaZaaabaQa\_\_¥]a¥T[¥]H]I¥YQUY`¥]\_  
@HWI-EAS443:3:54:267:378#0/1  
TCGCCCCCTGGAAGGACAAATCTTCTGGCTTTGCACTTTCC  
+HWI-EAS443:3:54:267:378#0/1  
aaba]]`a[MWaa\_aa`Y]a`^[Y]```YQQL]\_\_¥\_  
@HWI-EAS443:3:58:1395:680#0/1  
ATCCACGTTTGATCATTCTGATTAECTCCATTGCTATTGT  
+HWI-EAS443:3:58:1395:680#0/1  
aWXVa`^`abbb`a[a\_]`\_b\_aa¥`\_a\_R^bbb^aX¥`aW  
@HWI-EAS443:3:58:54:635#0/1  
AGCCCCCTGGAAGGACAAATCTTCTGGCTTTGCACTTTCCA  
+HWI-EAS443:3:58:54:635#0/1  
a`a`\_[]\_]^\_WU]^]^^\_Z\_^\_]^^\_]S0Y^\_Z^^  
@HWI-EAS443:3:65:862:1852#0/1  
CTCCACGTTTGATCATTCTGATTAECTCCATTGCTATTGT  
+HWI-EAS443:3:65:862:1852#0/1  
a]aaabaaaa^`a`aaaa`a``aaa`\_`\_a]^`\_a`\_^  
@HWI-EAS443:3:70:1632:118#0/1  
CCCCCTGGAAGGACAAATCTTCTGGCTTTGCACTTTCCAT  
+HWI-EAS443:3:70:1632:118#0/1  
[ababbbbaabb`bbaa\_[bbbababbab`\_^bab`\_aa  
@HWI-EAS443:3:85:1250:1028#0/1  
AGGAGTTGGAACAATAGCAATGGAGTTAATCAGAATGATN  
+HWI-EAS443:3:85:1250:1028#0/1  
aaa`]^a[`]``a\_a¥a^\_[`aRX`[a``\_]^[^\_]\_[XD  
@HWI-EAS443:3:86:1551:954#0/1  
TCCCGCCCCCTGGAAGGACAAATCTTCTGGCTTTGCACTTT  
+HWI-EAS443:3:86:1551:954#0/1  
aaR\_\_ZH]\_X\_aaab`[]WW¥^[U]\_`a\_^¥\_]XYYP  
@HWI-EAS443:3:93:647:1086#0/1  
AGATCATTCTGATTAECTCCATTGCTATTGTTCCAECTCC  
+HWI-EAS443:3:93:647:1086#0/1  
ZZVSabaa^a``]a^`aaabaa^Z`\_a¥[^]a`¥[^aaZS  
@HWI-EAS443:3:100:147:1008#0/1  
CATTGATTCCACGTTTGATCATTCTGATTAECTCCATTGC  
+HWI-EAS443:3:100:147:1008#0/1  
\_b\_aa^aaaaa\_b\_abb^a`a``a`\_`\_a`^a]\_`aaa\_  
@HWI-EAS443:3:11:1018:254#0/1  
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+HWI-EAS443:3:11:1018:254#0/1  
`GVVT¥ZKR¥Y¥PPTRNKP^W¥WUKNN^WWWPKTUSWBBB  
@HWI-EAS443:3:11:1084:1120#0/1  
GATTCCACCAATCATTCTCCGACAGATGCTCTGATTCT  
+HWI-EAS443:3:11:1084:1120#0/1  
a``ba\_\_\_a\_a]a`a`]`aa\_`[a^Y^ZXY\_\_\_\_`\_VT[\_\_\_  
@HWI-EAS443:3:11:223:1925#0/1  
GTGTATGGGCTTGCAAGTAGCAAGTGGGCATGACTTTGAAA

+HWI-EAS443:3:11:223:1925#0/1  
a\$M[a`aab\_XR`XH]aX\_`^a¥aa\_aZQ^`\_a\_a\_\_¥  
@HWI-EAS443:3:11:379:1273#0/1  
CAATGGAGTTAATCAGAATGATCAAACGTGGAATCAATGA  
+HWI-EAS443:3:11:379:1273#0/1  
a]]\_]\_[a^`\_Z¥`VZZ^\_]^\_`¥TY\_X\_[\_]]]]XZ^  
@HWI-EAS443:3:11:511:913#0/1  
GAGTTGGAACAATAGCAATGGAGTTAATCAGAATGATCAA  
+HWI-EAS443:3:11:511:913#0/1  
a[[]b`SX]aaa]^^ba\_`aaSRW[^a`\_aa`¥`S]\_`  
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CTTGTGTGTATGGGCTTGCAGTAGCAAGTGGGCATGACTT  
+HWI-EAS443:3:11:629:1005#0/1  
aaaaababaabba\_aaab]\_\_a`aa`aY`a``aaa\_\_aa  
@HWI-EAS443:3:11:704:1757#0/1  
AGTTAATCAGAATGATCAAACGTGGAATCAATGACCGAAA  
+HWI-EAS443:3:11:704:1757#0/1  
aa`^^\_JZ`X[aSXR^XZ\_[X`W[X[YV\_a\_`Y^]¥\_¥` [  
@HWI-EAS443:3:12:1621:628#0/1  
GGAGTTGGAACAATAGCAATGGAGTTAATCAGAATGATCA  
+HWI-EAS443:3:12:1621:628#0/1  
`[¥a\_aaa[a\_\_^\_U`^\_\_\_a`[\_V]`X^X^^]XV]]]U^  
@HWI-EAS443:3:12:53:578#0/1  
GATTTGTCTTCCAGGGCGGGGAGTCTTCGAGCTCTCGG  
+HWI-EAS443:3:12:53:578#0/1  
a\_aa]a^`^`][Y¥^^]\_^\_ZKXDRPJZUVMPVBBBBBBB  
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TGCTTGTGTGTATGGGCTTGCAGTAGCAAGTGGGCATGAC  
+HWI-EAS443:3:13:1270:796#0/1  
aa\_`aat[S`^\_aa\_[]]¥]WU]X\_\_[]`W`N[^aU¥¥^TV  
@HWI-EAS443:3:13:1346:725#0/1  
ATTCTTCCGACAGATGCTCTGATTTCTGTGGCATCCTGGC  
+HWI-EAS443:3:13:1346:725#0/1  
aaaaa`^`a`a¥\_a\_`\_`a[aa`[a\_^\_[U\_\_][U^^Z  
@HWI-EAS443:3:13:265:1148#0/1  
CGGTCATTGATTCCACGTTTGTATCATTCTGATTAECTCA  
+HWI-EAS443:3:13:265:1148#0/1  
`ab\_aab\_OK\_a]b\_a¥\_aaV¥aa\_P]aaa\_a\_a`\_`\_]Q  
@HWI-EAS443:3:13:276:1804#0/1  
GATTTGTCTTCCAGGGCGGGGAGTCTTCGAGCTCTCGG  
+HWI-EAS443:3:13:276:1804#0/1  
aXaa^a[`baaaa``¥¥]aa^¥Y^U[^`XY¥YYTKTQU]  
@HWI-EAS443:3:13:572:804#0/1  
ATTTGTCTTCCAGGGCGGGGAGTCTTCGAGCTCTCGGA  
+HWI-EAS443:3:13:572:804#0/1  
^\_bbaaaaaab`^`a`]aaaa¥¥¥QPQ\_X¥OXKTZRQY]V  
@HWI-EAS443:3:14:235:196#0/1  
CCCCCCCCTGGAAGGACAAATCTTCTGGCTTTGCACTTTC  
+HWI-EAS443:3:14:235:196#0/1  
aa`¥`aa\_a\_\_^`\_¥R^\_[^^Z[[[[^¥S^WYSQMRWZ¥R

@HWI-EAS443:3:14:996:529#0/1  
CAATGGAGTTAATCAGAATGATCAAACGTGGAATCAATGA  
+HWI-EAS443:3:14:996:529#0/1  
aaabb`aa`baa`P\_aaaaaaaa`]a^]aa\_`a\_```¥  
@HWI-EAS443:3:15:1289:40#0/1  
AGCTCGAAGACTCCCCGCCCTGGAAGGACAAATCTTCTG  
+HWI-EAS443:3:15:1289:40#0/1  
a`ab]]R]bWUa]XQ]^]V\_\_XXU¥UU¥W`]WOQU¥WGRS  
@HWI-EAS443:3:15:1713:1049#0/1  
TGTATGGGCTTGCAGTAGCAAGTGGGCATGACTTTGAAAG  
+HWI-EAS443:3:15:1713:1049#0/1  
aYZ\_ab\_\_U]\_`N]N]P`^YZYY[^XG[¥¥TIS^]VS\_ZW  
@HWI-EAS443:3:15:461:518#0/1  
ATTCCACGTTTGTATCATTCTGATTA ACTCCATTGCTATTG  
+HWI-EAS443:3:15:461:518#0/1  
¥`Y`^baaa`[\_Z\_]`^aaaabba\_`^V`\_W`\_`a`aa]W\_  
@HWI-EAS443:3:15:710:1866#0/1  
CCACGTTTGTATCATTCTGATTA ACTCCATTGCTATTGTTC  
+HWI-EAS443:3:15:710:1866#0/1  
]`\_Y¥R`U`b`abaIXVa`\_aa]\_]Vb`aXNZ`a]\_IUH  
@HWI-EAS443:3:15:809:847#0/1  
GAGTTGGAACAATAGCAATGGAGTTAATCAGAATGATCAA  
+HWI-EAS443:3:15:809:847#0/1  
aa¥\_bb¥^^V]`a\_]`Yabaa]a`a\_a`aaaa\_aaaa`^  
@HWI-EAS443:3:16:1106:783#0/1  
GCCTGCCTGCTTGTGTGTATGGGCTTGCAGTAGCAAGTGG  
+HWI-EAS443:3:16:1106:783#0/1  
abaabaabbaaaa\_bab^aaaa```a^``¥a``¥]\_U^\_  
@HWI-EAS443:3:16:122:1882#0/1  
GGATGCCACAGAAATCAGAGCATCTGTCCGGAAGAATGATT  
+HWI-EAS443:3:16:122:1882#0/1  
``^WY\_abaa`¥\_Q]\_aV¥W`aaa`]¥`]TWa``a`XXS`  
@HWI-EAS443:3:16:1485:1214#0/1  
AAGGAGTTGGAACAATAGCAATGGAGTTAATCAGAATGAT  
+HWI-EAS443:3:16:1485:1214#0/1  
XXbba```abbb¥`\_baaba^R^aa\_abaaa`bbaaa`aa  
@HWI-EAS443:3:16:467:1751#0/1  
GGAGTTGGAACAATAGCAATGGAGTTAATCAGAATGATCA  
+HWI-EAS443:3:16:467:1751#0/1  
^Z]XYaabVabb\_aa\_`abaa`[a`abbaVbaaa`b]``a  
@HWI-EAS443:3:16:68:1434#0/1  
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+HWI-EAS443:3:16:68:1434#0/1  
aa]RTVaaa`U\_aa^¥\_X\_¥¥¥¥¥^Y^Y¥^\_Z¥X]BBBB  
@HWI-EAS443:3:17:1256:548#0/1  
GCTTGTGTGTATGGGCTTGCAGTAGCAAGTGGGCATGACT  
+HWI-EAS443:3:17:1256:548#0/1  
a\_[¥a]\_¥aaa^\_U[RP]X`[QYQQ¥GTZV^ZRURDOUU  
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+HWI-EAS443:3:17:1480:250#0/1  
ab\_b`b`b`b`bbba[aabZaa]\_a`\_\_a[`\_aaaa\_`[\_aR  
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+HWI-EAS443:3:17:504:1300#0/1  
a[^abaaaa`X[]\_dMP^X^Z^ZSWa]R¥Y^aGU`BBBB  
@HWI-EAS443:3:17:946:1023#0/1  
TGGGTTTTCGACTTTCTCTCACTTGATCCATCATTGCCCTC  
+HWI-EAS443:3:17:946:1023#0/1  
`bbb`bba`abaaaa`\_K¥`aa`aaaa\_\_^]Z\_]W^^  
@HWI-EAS443:3:18:97:1686#0/1  
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+HWI-EAS443:3:18:97:1686#0/1  
aab`aaaaab`a\_a`^a\_aaaa``]Y`\_`aU^\_aa`\_V`\_  
@HWI-EAS443:3:19:1023:1693#0/1  
CGCCAGGATGCCACAGAAATCAGAGCATCTGTCGGAAGAA  
+HWI-EAS443:3:19:1023:1693#0/1  
V\_]bbaabbabbbbab`bbbb`^aaabbbb[bbb^a``a  
@HWI-EAS443:3:19:1136:1851#0/1  
TCGGTCATTGATTCCACGTTTGATCATTCTGATTAECTCC  
+HWI-EAS443:3:19:1136:1851#0/1  
¥ba]DYbbaWaX`W^bR`Ra\_V[\_]^aa\_\_[Vaa\_TY`^`  
@HWI-EAS443:3:19:1554:1627#0/1  
AGTGCAAAGCCAGAAGATTTGTCCTTCCAGGGGCGGGGAG  
+HWI-EAS443:3:19:1554:1627#0/1  
`^^b]aa`a]]b\_aaaaZMY]`O]^Sxa^^\_`^`ZVRYP\_  
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CAGAAATCAGAGCATCTGTCGGAAGAATGATTGGTGGAAAT  
+HWI-EAS443:3:19:1566:435#0/1  
Xa[abba`aa^abbbab\_ZXbb]`\_`b`bbabbbbaaaba  
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+HWI-EAS443:3:19:730:1638#0/1  
aa`\_\_baaabaaaa`aaaaaaaa`aaa\_aaaaa`aa\_\_a  
@HWI-EAS443:3:19:932:93#0/1  
CGCCCCTGGAAGGACAAATCTTCTGGCTTTGCACTTTCCA  
+HWI-EAS443:3:19:932:93#0/1  
aba`^aaaaabbY¥baa`[baW\_\_Y0^aaZ0]Q`aa\_W[  
@HWI-EAS443:3:1:542:1168#0/1  
AGGAGTTGGAACAATAGCAATGGAGTTAATCAGAATGATC  
+HWI-EAS443:3:1:542:1168#0/1  
`b`ab`aabaaU\_`a``aaa`aa^¥``a`¥`a``a`aBB  
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AAAGTGCAAAGCCAGAAGATTTGTCCTTCCAGGGGCGGGG  
+HWI-EAS443:3:20:1012:1002#0/1  
]¥¥WI¥`¥ZXZ\_\_]X\_RR\_W]OV`a]aR¥VHT`[[U[[FO  
@HWI-EAS443:3:20:1461:1395#0/1  
GAGAGAACTCATCTTTATGACAAAGAAGAAATAAGGAGA  
+HWI-EAS443:3:20:1461:1395#0/1  
aaY]a`a\_aaaaaZaaaaaaY[^]a^^a`\_\_`\_\_`^`^`^`

@HWI-EAS443:3:20:1507:486#0/1  
ATTGATTCCACGTTTGATCATTCTGATTAAGTCCATTGCT  
+HWI-EAS443:3:20:1507:486#0/1  
aba\_`\_¥L[aabbb`YaaQ]ab[\_X]`ba^MbXR\_a`a[  
@HWI-EAS443:3:20:1577:462#0/1  
CACAGAAATCAGAGCATCTGTCCGAAGAATGATTGGTGGA  
+HWI-EAS443:3:20:1577:462#0/1  
\_V]¥Z¥a^a]\_J\_¥OX]VW]^TZQLV\_YY¥ZVZW^XSUSL  
@HWI-EAS443:3:20:385:124#0/1  
AGAACTCATCCTTTATGACAAAGAAGAAATAAGGAGAGTT  
+HWI-EAS443:3:20:385:124#0/1  
ababbbabbaabbabaab`a`ab`ab`abaabaaa`bX¥  
@HWI-EAS443:3:20:673:1404#0/1  
TGGAACAATAGCAATGGAGTTAATCAGAATGATCAAACGT  
+HWI-EAS443:3:20:673:1404#0/1  
aa`a`]ba`aa`aYaa\_\_a]]aaa`a\_\_\_\_a[X[UY^SU  
@HWI-EAS443:3:21:455:605#0/1  
AGAAGATTTGTCCTTCCAGGGCGGGGAGTCTTCGAGCTC  
+HWI-EAS443:3:21:455:605#0/1  
a`¥aaa`aabaaaa]¥]`a`\_\_`]UWTXYXMOXPJNT  
@HWI-EAS443:3:21:932:39#0/1  
GAACAATAGCAATGGAGTTAATCAGAATGATCAAACGTGG  
+HWI-EAS443:3:21:932:39#0/1  
a`^`a`a`aaa\_a^a`\_\_\_\_\_]\_]]]]X]]\_Z`^`  
@HWI-EAS443:3:22:1559:527#0/1  
CGTCCGAGAGCTCGAAGACTCCCCGCCCTGGAAGGACAA  
+HWI-EAS443:3:22:1559:527#0/1  
a`MY]aaa`]]`]]\_\_^aZ`^]¥]]^W¥¥¥^URU¥¥WSM¥  
@HWI-EAS443:3:22:1688:639#0/1  
CAATCATTCTCCGACAGATGCTCTGATTTCTGTGGCATC  
+HWI-EAS443:3:22:1688:639#0/1  
aba]VW^aa`b\_\_b[OXaW`a[\_O\_a^`^V^`PZ\_\_[R\_N  
@HWI-EAS443:3:22:692:707#0/1  
GGTCATTGATTCCACGTTTGATCATTCTGATTAAGTCCAT  
+HWI-EAS443:3:22:692:707#0/1  
aa\_bbaba\_abaaa]ba`abaaaaa`^Uaaa`\_\_`\_[aa  
@HWI-EAS443:3:22:833:778#0/1  
GTTGGAACAATAGCAATGGAGTTAATCAGAATGATCAAAC  
+HWI-EAS443:3:22:833:778#0/1  
aaa`\_a`]aa\_aaa\_aa`\_a^`a\_a^`\_a^`\_^`\_^`\_^`  
@HWI-EAS443:3:23:110:1427#0/1  
ATTGATTCCACGTTTGATCATTCTGATTAAGTCCATTGCT  
+HWI-EAS443:3:23:110:1427#0/1  
aaaaaaaa`aa^a`aa\_aaa\_\_aaa\_\_a\_\_aa^\_\_a^Y^  
@HWI-EAS443:3:23:1444:555#0/1  
CAAAGCCAGAAGATTTGTCCTTCCAGGGCGGGGAGTCTT  
+HWI-EAS443:3:23:1444:555#0/1  
abbbbaabb`bbabbaab`aaaa¥aa\_a^`\_`]^X\_YPV\_  
@HWI-EAS443:3:23:1508:2029#0/1  
CATTGATTCCACGTTTGATCATTCTGATTAAGTCCATTGC

+HWI-EAS443:3:23:1508:2029#0/1  
abP^`bb\_\_b`Z`^^babba[^\_abaa]]Vaa\_FPba]^W  
@HWI-EAS443:3:23:1722:1978#0/1  
GGAGTTGGAACAATAGCAATGGAGTTAATCAGAATGATCA  
+HWI-EAS443:3:23:1722:1978#0/1  
aa`a`aaa\_`^]¥^^U^\_\_]W^]`¥`\_Z\_\_\_\_¥ZZ\_]UV^  
@HWI-EAS443:3:23:192:1401#0/1  
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aa^¥aabaabbbbababaaba`aa`aaaaaba]aaa\_`][  
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[N`¥bb^V`Y¥\_ab[^\_ab]^Vb¥bb`abb\_`^^b¥baba  
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+HWI-EAS443:3:23:552:693#0/1  
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+HWI-EAS443:3:23:887:174#0/1  
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+HWI-EAS443:3:24:729:1773#0/1  
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+HWI-EAS443:3:25:1289:476#0/1  
aa`b`babba\_babbaaaaaaaaa`a\_aa[\_`a`a\_`a]¥\_  
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+HWI-EAS443:3:25:134:462#0/1  
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+HWI-EAS443:3:25:1438:1201#0/1  
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AAGGAGTTGGAACAATAGCAATGGAGTTAATCAGAATGAT  
+HWI-EAS443:3:26:1196:1763#0/1  
¥]`a]¥S^```b^aa]aa^aa^ZN\_a¥¥`aaaa`\_[Y``  
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+HWI-EAS443:3:26:1334:142#0/1  
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+HWI-EAS443:3:26:872:1071#0/1  
a`aab`aaa`aaa\_aZ`a^aX`^ZX¥\_\_^YYO¥SYU¥UY]









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+HWI-EAS443:3:35:281:445#0/1  
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+HWI-EAS443:3:36:1343:987#0/1  
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+HWI-EAS443:3:36:354:232#0/1  
aa`aa\_aaa`aa`^¥`\_]`[\_^¥^^N\_\_¥¥¥¥YW¥\_^Y¥  
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+HWI-EAS443:3:36:575:508#0/1  
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+HWI-EAS443:3:37:1625:69#0/1  
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+HWI-EAS443:3:37:1670:231#0/1  
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a\_Z]a`\_\_\_V]^[\_]¥\_ba\_aa`Y^`a¥TYUVY\_\_ZWY[U  
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+HWI-EAS443:3:38:839:1046#0/1  
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+HWI-EAS443:3:39:1252:1038#0/1  
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+HWI-EAS443:3:3:1357:557#0/1  
R)`¥XZa`\_¥Z\_ZYV[`¥aa`a`a`¥Wra¥` `` `` `\_^R¥`  
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+HWI-EAS443:3:3:27:424#0/1  
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+HWI-EAS443:3:40:438:145#0/1  
V`b^baabb^baa^aaa`Y]aa^¥aZP\_U¥aa^WP[\_[^`  
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+HWI-EAS443:3:40:496:54#0/1  
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+HWI-EAS443:3:42:1229:1046#0/1  
^aab`\_ab^]^aabUab\_aaZG\_G`¥\_ab`¥^\_aa\_^TI  
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+HWI-EAS443:3:42:1288:1927#0/1  
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+HWI-EAS443:3:42:1786:1297#0/1  
X\_\_\_\_bbbbba\_\_\_\_aaa]`\_Z\_ba\_a`aZa\_0Y^JX\_W¥\_  
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+HWI-EAS443:3:42:364:174#0/1  
aaa[ab`abaa`a`a`U\_aa\_`a]\_a`a`a`\_\_\_\_` ` `\_^  
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+HWI-EAS443:3:42:868:683#0/1  
ab^`¥\_bb^a^abaYb\_abba\_\_a0]`\_`Y\_a^aa^Y^\_Z  
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+HWI-EAS443:3:42:987:142#0/1  
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¥WSY\_`\_ZWab]aa]`aa`ZXaaa^\_a`\_NZ^UOMQYO  
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+HWI-EAS443:3:43:1701:1842#0/1  
\_^]ba]bbb[\_bSSb`aba\_b¥a`a`Saa`aaaH^PYa\_^  
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+HWI-EAS443:3:43:587:392#0/1  
abaa^a^aa`X`a\_\_a`a\_\_a¥\_\_Xa]^¥¥¥`\_\_`a^¥  
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+HWI-EAS443:3:43:630:1304#0/1  
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``^\_^]\_\_`\_\_a`]`\_^`\_\_\_\_X\_\_^Za^]VSXX^^]WSZ  
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+HWI-EAS443:3:44:1750:531#0/1  
\_\_JY¥]`]T\_]`W¥a`\_`\_`P^¥]IPX\_\_VSKFXXOV\_X  
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+HWI-EAS443:3:44:683:1047#0/1  
``a`b\_Z\_aba`\_a\_[NZ`W``[][\_abaa``\_¥Z``a[[  
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+HWI-EAS443:3:45:854:1734#0/1  
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+HWI-EAS443:3:46:363:418#0/1  
aa\_^[aa`aaaa\_W\_\_\_ba\_a`^\_^]\_^ZaaZ^`a^¥^Sa  
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+HWI-EAS443:3:47:1379:626#0/1  
aba^aaa\_Xa\_b```\_aa^a\_\_W\_a`ZW¥\_]a[aa^aa\_]`  
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+HWI-EAS443:3:47:749:1265#0/1  
a`baa`aaaa\_\_a``\_aaa^\_¥\_]\_\_¥Z\_`^`^^`^\_X  
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+HWI-EAS443:3:47:750:653#0/1  
aaa¥\_L¥ZaT^b`¥aaaaa`a^a]\_``\_a[\_a]¥]`Z\_\_¥



@HWI-EAS443:3:47:830:1985#0/1  
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+HWI-EAS443:3:47:830:1985#0/1  
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+HWI-EAS443:3:47:959:1056#0/1  
abbaa`]]a`aaY^aa\_¥]`Z^^aa\_\_`a\_aaaa¥`[Z[]  
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+HWI-EAS443:3:48:1701:1151#0/1  
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+HWI-EAS443:3:48:320:1165#0/1  
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+HWI-EAS443:3:48:817:980#0/1  
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+HWI-EAS443:3:48:821:1623#0/1  
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+HWI-EAS443:3:48:974:1008#0/1  
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Z\_¥^YYb`[b```]`^`\_aaaYab\_¥]\_a\_T¥YZaYJTZ]  
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+HWI-EAS443:3:51:1280:417#0/1  
\_W\_a]^a^V[`[]\_aa^`^ZYT[\_[aaa\_\_aa`¥aa\_\_X]  
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+HWI-EAS443:3:52:1143:519#0/1  
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+HWI-EAS443:3:52:1233:674#0/1  
¥X[^Y¥`b\_`P[¥`[¥]WI¥\_X\_aa¥¥]U\_U^a\_VVX  
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+HWI-EAS443:3:52:688:1396#0/1  
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a` \_bababa\_\_aaa`a`^a\_\_^P`¥aa`^aa` `^`aa`^\_  
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¥`^aabaab\_aa\_aabaaa`b^aaaaa` `` `a`\_a^\_^  
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XYW\_OVW\_\_WZ\_¥T\_VHM]ZWaaVa`^YM` `RMZ^^^PR  
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+HWI-EAS443:3:54:1025:1529#0/1  
ZP\_¥`babaZaba`U]^W^aaa\_Va\_a^`aaa`aa`^ZP\_  
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+HWI-EAS443:3:54:21:104#0/1  
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+HWI-EAS443:3:54:369:39#0/1  
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+HWI-EAS443:3:54:546:349#0/1  
aa`]b\_a^[¥a]]`a`\_`UaaXVV^Y\_\_¥Z```^[^[¥TU  
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+HWI-EAS443:3:54:55:1196#0/1  
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AGAAATCAGAGCATCTGTCGGAAGAATGATTGGTGAATC  
+HWI-EAS443:3:57:34:452#0/1  
a```]`\_\_a\_`^`^`^`^]`^\_Y¥`^¥X]WYZ]]Z^^ZWYY  
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+HWI-EAS443:3:58:669:1687#0/1  
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+HWI-EAS443:3:5:1626:190#0/1  
^a`¥b\_a\_b¥aaaZa`\_\_baY¥b`\_`a`\_a\_\_\_a[ZTa\_\_  
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]^Q^WYQaa`\_\_HN]Z\_^QZ`ZZ]``]RYMV\_V]G][BBB  
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CTTGTGTGTATGGGCTTGCAGTAGCAAGTGGGCATGACTT  
+HWI-EAS443:3:63:1540:1326#0/1  
a\_]a^aZb````a[a`^XTQZa]JWNZL]a\_\_\_\_\_^ZU¥^  
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a\_ab`Yaabb\_T]\_ba[aWbaa``aaaa¥]aaL¥\_\_Z¥X[  
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+HWI-EAS443:3:64:1172:512#0/1  
aabaabaaaaaaaaaaaaa\_``a\_```\_`a``\_a\_`\_`\_]  
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+HWI-EAS443:3:64:279:1878#0/1  
W`bbbbbb\_[OY`[O[`b`¥\_^`]]]¥V\_``¥]GLZXQY¥

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abaa\_`\_]\_SXMV[ `[V]UY¥a\_YaY`\_]\_^\_Z^]]^\_Y]^Z  
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+HWI-EAS443:3:65:289:182#0/1  
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+HWI-EAS443:3:66:360:1519#0/1  
a`]^HWb`aYHY\_aa\_¥\_]\_\_\_\_¥S`a\_]Z[\_ZN[U\_^WBB  
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+HWI-EAS443:3:67:1213:506#0/1  
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+HWI-EAS443:3:67:1220:905#0/1  
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+HWI-EAS443:3:67:136:1485#0/1  
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+HWI-EAS443:3:67:723:1218#0/1  
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+HWI-EAS443:3:67:837:643#0/1  
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+HWI-EAS443:3:68:1780:1174#0/1  
^`USNX¥\_¥ZVV^^MOZIJZa`Z`[`]T]RVZTX[ZT[PW  
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+HWI-EAS443:3:68:214:430#0/1  
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+HWI-EAS443:3:68:251:953#0/1  
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+HWI-EAS443:3:68:473:592#0/1  
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+HWI-EAS443:3:68:574:427#0/1  
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@HWI-EAS443:3:68:697:101#0/1  
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+HWI-EAS443:3:68:697:101#0/1  
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@HWI-EAS443:3:68:699:1357#0/1  
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+HWI-EAS443:3:68:699:1357#0/1  
^abaabbbaba\_aaab^`aababbaaaaaaaaaaaaa^` [ @HWI-EAS443:3:68:900:1275#0/1  
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+HWI-EAS443:3:68:900:1275#0/1  
aYMUVaKRUa`Ra\_R[\_aa`ZYa]^[\_a[`aJ^\_X^^^a  
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+HWI-EAS443:3:69:1428:1162#0/1  
Y^`abaVab`bXbbbb\_\_a\_bab`baX\_¥`ab\_]a`a`b\_ @HWI-EAS443:3:69:1571:380#0/1  
CGTCCGAGAGCTCGAAGACTCCCCGCCCTGGAAGGACAA  
+HWI-EAS443:3:69:1571:380#0/1  
aa^^bba\_W\_aa`aaaa\_]\_V]` `a\_¥^]a^]\_]`TV\_\_ @HWI-EAS443:3:69:1596:1845#0/1  
CAGGATGCCACAGAAATCAGAGCATCTGTTCGGAAGAATGA  
+HWI-EAS443:3:69:1596:1845#0/1  
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+HWI-EAS443:3:69:406:389#0/1  
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+HWI-EAS443:3:69:487:1491#0/1  
`X\_`[^¥L\_\_a`^`aa`aaa`X`aaVLNPZ]^U[Y @HWI-EAS443:3:69:709:493#0/1  
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+HWI-EAS443:3:69:709:493#0/1  
aaaa\_aa\_Yaa\_`aaa^`aa\_aa\_aa` `` `a\_]\_\_\_\_] @HWI-EAS443:3:6:1008:613#0/1  
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+HWI-EAS443:3:6:1008:613#0/1  
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+HWI-EAS443:3:6:1679:634#0/1  
a`[b^`[aa`a\_a\_U\_\_`Ra]b`X\_`\_]a` `\_\_^^`\_`Z @HWI-EAS443:3:6:283:769#0/1  
GAGAACTCATCTTTATGACAAAGAAGAAATAAGGAGAGT  
+HWI-EAS443:3:6:283:769#0/1  
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+HWI-EAS443:3:6:36:884#0/1  
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+HWI-EAS443:3:6:427:257#0/1  
abbaababaaaa\_a^a`a]ab\_aa``\_aWV\_a``^a``\_a  
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a\_^S``a\_N`^XV]aZ¥\_XT¥\_TOX`]]W^aQUYRZ\_UY`  
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+HWI-EAS443:3:70:264:791#0/1  
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+HWI-EAS443:3:70:459:1988#0/1  
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+HWI-EAS443:3:70:518:1827#0/1  
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@HWI-EAS443:3:71:1502:1883#0/1  
CAGAAGATTTGTCTTCCAGGGCGGGGAGTCTTCGAGCT  
+HWI-EAS443:3:71:1502:1883#0/1  
aUUa`\_aa\_\_^^Z`\_a`\_V¥¥[\_`¥a^SWVBBBBBBBBBBB  
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+HWI-EAS443:3:71:247:1468#0/1  
aa¥P`\_^\_a[\_`\_`aa\_^`[\_^W[W][\_^X]\_]`^W^\_Z]  
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^`\_`R¥````Ybaa`][DT]¥PU`]a^[[Y\_]W¥]^]P^  
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CTTGTGTGTATGGGCTTGCAGTAGCAAGTGGGCATGACTT  
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+HWI-EAS443:3:72:642:79#0/1  
[SV¥`\_]aaaab\_Vab¥^aa\_\_\_\_a[`^\_`\_]¥¥aa^`\_`\_U  
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+HWI-EAS443:3:73:1228:1150#0/1  
a¥a`a`¥`^a¥RVU¥`\_¥X`¥]Z¥USTXXDIUYVSS¥PGY  
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+HWI-EAS443:3:73:140:1479#0/1  
abb`bbbb`aa]]^`ab`¥a\_\_`\_a^\_Za`\_\_\_\_`\_\_\_\_\_  
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+HWI-EAS443:3:73:1712:1163#0/1  
`]YP`U\_VQ¥a`WP[^[R^aYOXVTUQWa]¥¥[¥0[][\_S

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+HWI-EAS443:3:74:586:1225#0/1  
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+HWI-EAS443:3:74:599:1467#0/1  
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+HWI-EAS443:3:74:653:1740#0/1  
`Z`a¥^T^Yba¥\_a\_\_b\_ab\_\_`UUXaa`\_a]aV]]^^`\_`  
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a`aa\_aabaaba`aaaa\_aaaaaa¥Za`]`\_\_a\_WYWZ\_¥  
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aa^aa^b`baaaa¥`aaa]aaaa^`a\_\_]`a]a¥¥\_XYVY  
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+HWI-EAS443:3:7:1245:1730#0/1  
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^UP]^X¥]\_[\_\_[^`a\_\_Y^a\_0^^ZY^\_YNXTWW¥^[GW  
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a]``Saa\_aa¥a^[a`¥a\_]U^¥\_U^¥`^U¥]¥^^ZXS¥  
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^¥¥V¥bbb¥\_a^¥Tbbb\_bYN]b\_b]\_`aab`\_`b`^^¥b  
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+HWI-EAS443:3:82:829:1038#0/1  
YY^a\_V\_\_aaaXW¥ZRRab]^aWaYG¥`^^QYVX\_\_R]Y  
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+HWI-EAS443:3:82:96:1701#0/1  
a\_K[S[``\_QTV]Y¥^[[]X[\_^]YXPYZ¥HX\_\_ZU]]¥Y

@HWI-EAS443:3:83:1523:813#0/1  
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[aaZabbab`\_`Z¥aS^aabb`IVab]bbb`bbb`]aa¥a  
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+HWI-EAS443:3:83:254:26#0/1  
abbaa`aaaa`\_a\_a¥Z``\_aaa\_a````\_a^\_``^]¥  
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+HWI-EAS443:3:83:371:1928#0/1  
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+HWI-EAS443:3:83:439:813#0/1  
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+HWI-EAS443:3:83:954:966#0/1  
aa``\_bb]]``\_ba`\_a\_¥\_``^`\_a^]`aa\_`a`aa`a]Z  
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a]T^`b\_aaa\_`[aa][^V\_]aa¥UUa\_[Z``[``^a\_`S  
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+HWI-EAS443:3:84:585:1612#0/1  
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+HWI-EAS443:3:84:940:1139#0/1  
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a]¥]aa`a]`aXYa^F¥``]^\_YW]\_`a^\_]a\_`a\_``^  
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+HWI-EAS443:3:85:734:77#0/1  
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+HWI-EAS443:3:86:1654:274#0/1  
^`Sab`b`bbaab`abba0[Q^aba^abaaaa¥`a`\_]R`  
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+HWI-EAS443:3:86:897:1221#0/1  
\_\_aY¥V`abbb]bbbaabb`a`\_aa\_a^¥R\_ab`a¥^aa  
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+HWI-EAS443:3:87:1275:1753#0/1  
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@HWI-EAS443:3:87:1374:344#0/1  
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+HWI-EAS443:3:87:1374:344#0/1  
^\_b^^bba\_b[T`a\_¥bba`bbba\_U``ba^a`b\_abaa  
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+HWI-EAS443:3:87:375:198#0/1  
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+HWI-EAS443:3:88:1488:640#0/1  
¥^aZa^J\_bb``ba]a``b^aaa]\_\_\_\_```YaT`\_aaa`S  
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+HWI-EAS443:3:89:1252:773#0/1  
a`a`aaa\_aaa`a`\_aa\_`^a```\_aa\_^\_a`\_^\_\_^Z  
@HWI-EAS443:3:89:1702:888#0/1  
GATTTGTCCTTCCAGGGCGGGGAGTCTTCGAGCTCTCGG  
+HWI-EAS443:3:89:1702:888#0/1  
[aa`\_Y¥Z`\_a`Z^`\_¥¥Y]¥¥XR`BBBBBBBBBBBBBBB  
@HWI-EAS443:3:89:32:1863#0/1  
GAAAGTGCAAAGCCAGAAGATTTGTCCTTCCAGGGCGGG  
+HWI-EAS443:3:89:32:1863#0/1  
^bbb\_ab`bb\_UaabaU^¥ba`\_]\_ababba\_]WZSMb[Ua  
@HWI-EAS443:3:89:386:1496#0/1  
CCAGGATGCCACAGAAATCAGAGCATCTGTCGGAAGAATG  
+HWI-EAS443:3:89:386:1496#0/1  
]`[a`P\_^`\_b`^`X^a[`^^\_Tzt]P]aZMZX][RX  
@HWI-EAS443:3:89:583:356#0/1  
GCTTGTGTATGGGCTTGCAGTAGCAAGTGGGCATGACT  
+HWI-EAS443:3:89:583:356#0/1  
aaabb\_b`b¥aba\_aa`baaa`\_aa]Y^¥aa`a`aa`^`



@HWI-EAS443:3:89:671:1488#0/1  
ATTGATTCCACGTTTGTATCATTCTGATTAACCTCCATTGCT  
+HWI-EAS443:3:89:671:1488#0/1  
]\_]b^^`b\_^`ZIYaa[]WX`] `U^^a`a\_^J\_]Zb\_XNX  
@HWI-EAS443:3:89:675:1617#0/1  
GATTTGTCCTTCCAGGGGCGGGGAGTCTTCGAGCTCTCGG  
+HWI-EAS443:3:89:675:1617#0/1  
]]]^^`¥` `b`aa\_ZZ\_`\_\_]]QZZYYRW\_Z^[Y^VV[]a`  
@HWI-EAS443:3:89:844:729#0/1  
CTCGAAGACTCCCCGCCCTGGAAGACAAATCTTCTGGC  
+HWI-EAS443:3:89:844:729#0/1  
`\_^bbZ`a` `b`aa^aU^\_babbaaaZ``aa\_``aZaa`\_  
@HWI-EAS443:3:8:378:1230#0/1  
AGAACTCATCCTTTATGACAAAGAAGAAATAAGGAGAGTT  
+HWI-EAS443:3:8:378:1230#0/1  
^Y]aW`aa\_aa`aaaaa\_\_`\_\_a\_\_\_¥]]` `^` ` `aW`  
@HWI-EAS443:3:90:1015:1939#0/1  
CAGAAATCAGAGCATCTGTCCGGAAGAATGATTGGTGAAT  
+HWI-EAS443:3:90:1015:1939#0/1  
ababbbb`baaaVa\_abYR\_aabb`a`^]]bb^ISa`\_^a  
@HWI-EAS443:3:90:1507:917#0/1  
CAGGATGCCACAGAAATCAGAGCATCTGTCCGGAAGAATGA  
+HWI-EAS443:3:90:1507:917#0/1  
ab` `bbbbbaaba` `ab\_ab`aa`b` `b[abbX¥` ` `a[  
@HWI-EAS443:3:90:180:520#0/1  
CACAGAAATCAGAGCATCTGTCCGGAAGAATGATTGGTGA  
+HWI-EAS443:3:90:180:520#0/1  
` `b`¥¥SabY`¥a^¥^a^¥YR\_ZXU\_I]SZ\_MZUM]DUUO  
@HWI-EAS443:3:90:56:580#0/1  
GAGTTGGAACAATAGCAATGGAGTTAATCAGAATGATCAA  
+HWI-EAS443:3:90:56:580#0/1  
¥X`Y`\_`¥a`]]` `aa`]¥Za^a^[^TZ`\_`a`\_\_PW\_¥  
@HWI-EAS443:3:91:1045:71#0/1  
CGTCCGAGAGCTCGAAGACTCCCCGCCCTGGAAGGACAA  
+HWI-EAS443:3:91:1045:71#0/1  
^aa` ` `a`\_a\_a`^`aa`¥aaa\_aa[[`¥¥aa`^\_¥]T`^  
@HWI-EAS443:3:91:1130:728#0/1  
CAGAAATCAGAGCATCTGTCCGGAAGAATGATTGGTGAAT  
+HWI-EAS443:3:91:1130:728#0/1  
H\_`bZbb`Xa` [V\_bbbbbbb^` `QPQ\_\_UUZb^Ka\_IVH  
@HWI-EAS443:3:91:1356:1789#0/1  
CCACGTTTGTATCATTCTGATTAACCTCCATTGCTATTGTTC  
+HWI-EAS443:3:91:1356:1789#0/1  
abaababbabba\_aba`bbbabb`b^aaaab`ab`ab`^`\_  
@HWI-EAS443:3:91:1754:1001#0/1  
CAATCATTCTCCGACAGATGCTCTGATTTCTGTGGCATC  
+HWI-EAS443:3:91:1754:1001#0/1  
]babbbababbbbaabbbabb]abbbbbbbaTZTa`bbR  
@HWI-EAS443:3:91:520:548#0/1  
GCCTGCTTGTGTGTATGGGCTTGCAAGTAGCAAGTGGGCAT

+HWI-EAS443:3:91:520:548#0/1  
aaaaaaaa`a^b`^¥`aa\_]`¥`a[^^^`Z`\_Y[V  
@HWI-EAS443:3:91:528:1067#0/1  
ATTCCACGTTTGATCATTCTGATTAACCTCCATTGCTATTG  
+HWI-EAS443:3:91:528:1067#0/1  
Yb\_aba`b\_aaaaaabaaaabaaa`aaaa`a]^`^\_a  
@HWI-EAS443:3:91:636:1181#0/1  
CAGAAATCAGAGCATCTGTCGGAAGAATGATTGGTGAAT  
+HWI-EAS443:3:91:636:1181#0/1  
aaY¥b¥^ba`]Z^b`a`¥P¥\_]Q¥a\_\_¥XY]\_\_`W[^Y\_S  
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+HWI-EAS443:3:92:326:1948#0/1  
abb`^`\_]``aba`aababb`a`aabS^^^`aaaa\_\_aa  
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+HWI-EAS443:3:92:543:1917#0/1  
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+HWI-EAS443:3:92:565:1709#0/1  
a`Y\_aa\_[a`a`^a\_a`Z`\_a^`\_\_a\_\_\_^¥^a`\_^\_  
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AGTTAATCAGAATGATCAAACGTGGAATCAATGACCGAAA  
+HWI-EAS443:3:92:807:2025#0/1  
ab]¥bbaab`aba\_ba\_baa`^\_`a^aaaa`a^`aa  
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AGTTGGAACAATAGCAATGGAGTTAATCAGAATGATCAAA  
+HWI-EAS443:3:93:1777:1827#0/1  
a`\_aa^ab`aab¥baa`a¥Vaa^ba\_aY`S\_a\_\_`W]¥B  
@HWI-EAS443:3:93:662:157#0/1  
ATCATTCTGATTAACCTCCATTGCTATTGTTCCAACCTCCTT  
+HWI-EAS443:3:93:662:157#0/1  
\_¥`a^b]^a`a`\_`^a`\_`\_\_a^`¥\_\_`[\_][\_¥]\_^WVR  
@HWI-EAS443:3:93:753:1112#0/1  
GTGTGTATGGGCTTGCAAGTGGGCATGACTTTGA  
+HWI-EAS443:3:93:753:1112#0/1  
a`\_`^aa`\_`^aa`a¥\_a`\_\_`W`a¥V^`^^W`\_\_`[  
@HWI-EAS443:3:94:242:273#0/1  
AGAAATCAGAGCATCTGTCGGAAGAATGATTGGTGAATC  
+HWI-EAS443:3:94:242:273#0/1  
a¥[WIU^¥^¥UN[TUT[¥T[`RVLOOP¥QFVBBBBBBBBB  
@HWI-EAS443:3:94:315:942#0/1  
CTGCCTGCCTGCTTGTGTGTATGGGCTTGCAAGT  
+HWI-EAS443:3:94:315:942#0/1  
aa`aaabaaa\_aab^a¥a^aaa\_aaZ\_a`\_aW\_\_Z^¥`W  
@HWI-EAS443:3:94:441:568#0/1  
GGAGTTGGAACAATAGCAATGGAGTTAATCAGAATGATCA  
+HWI-EAS443:3:94:441:568#0/1  
a\_¥a]^`Z[\_\_\_\_`\_]^^a\_]\_a^`]\_\_`^`^\_]\_^[[W

@HWI-EAS443:3:94:455:1053#0/1  
CTTGTGTGTATGGGCTTGCAGTAGCAAGTGGGCATGACTT  
+HWI-EAS443:3:94:455:1053#0/1  
aa]`[\`¥^^H^Z^`^aaaa\_R¥aWR\_\_GWYaX[¥a\_^\_  
@HWI-EAS443:3:94:491:102#0/1  
GTTGGAACAATAGCAATGGAGTTAATCAGAATGATCAAAC  
+HWI-EAS443:3:94:491:102#0/1  
a\_aa`¥\_Z\_^\_¥\_`^SP`^\_S\_\_\_ZX][U¥]W^\_W]RPVZY  
@HWI-EAS443:3:94:517:1785#0/1  
AGAGAACTCATCTTTATGACAAAGAAGAAATAAGGAGAG  
+HWI-EAS443:3:94:517:1785#0/1  
^a[a^a\_\_aaa\_U¥aa[\_aa`a`^a]\_\_]\_`aY``\_aa\_a  
@HWI-EAS443:3:95:1088:1099#0/1  
ATTGATTCCACGTTTGTATCATTCTGATTAECTCCATTGCT  
+HWI-EAS443:3:95:1088:1099#0/1  
abbaa`a`aa`baaaba\_\_aaaa\_b`a`aa^`\_`a`\_`\_]`  
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ATCATTCTCCGACAGATGCTCTGATTTCTGTGGCATCCT  
+HWI-EAS443:3:95:199:123#0/1  
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+HWI-EAS443:3:95:301:1111#0/1  
aaa[¥`\_`U]\_`aa`aa]`aa\_]J`\_`a\_\_\_`^`\_]ZV]U  
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+HWI-EAS443:3:95:345:508#0/1  
U\_`[[H]\_W\_b`R¥\_S]^¥ZX¥R\_]SU\_`Sa[¥[UI\_[bZ  
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TGGAAAGTGCAAAGCCAGAAGATTTGTCCTTCCAGGGGCG  
+HWI-EAS443:3:95:703:137#0/1  
abb`\_`aaXaa\_`\_W`\_`\_`\_`¥a¥\_¥\_¥X¥Z\_\_S¥^`^VWV\_  
@HWI-EAS443:3:95:875:86#0/1  
ACCAATCATTCTTCCGACAGATGCTCTGATTTCTGTGGCA  
+HWI-EAS443:3:95:875:86#0/1  
a\_]ba\_¥a\_TH\_\_MN`X]\_]¥\_^]aZab`\_aa\_`a[^PBB  
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+HWI-EAS443:3:96:850:921#0/1  
a`aaaaa`\_aa]a`aaa\_\_^^`a`¥`aaZ]XUa^Ua¥X`^  
@HWI-EAS443:3:96:892:1886#0/1  
TGCAAAGCCAGAAGATTTGTCCTTCCAGGGGCGGGGAGTC  
+HWI-EAS443:3:96:892:1886#0/1  
abbbabZabbaaaababa`^¥`\_Y`^a\_`a\_\_a`\_`^]TZM  
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+HWI-EAS443:3:97:1227:1200#0/1  
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+HWI-EAS443:3:97:456:472#0/1  
\_aba\_^\_a`babaZ^aa[^a¥][\_^^a[^H`]^\_^^BBB  
@HWI-EAS443:3:97:747:1170#0/1  
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+HWI-EAS443:3:97:747:1170#0/1  
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GGAGTTGGAACAATAGCAATGGAGTTAATCAGAATGATCA  
+HWI-EAS443:3:98:1314:1317#0/1  
abY¥]aaZ^`[\_\_\_\_`\_\_a`\_]\_^a^a]Za\_^\_a`¥aY`  
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AGAAATCAGAGCATCTGTCGGAAGAATGATTGGTGAATC  
+HWI-EAS443:3:98:1676:794#0/1  
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a]TRVRWT¥b]0]\_WDX]MZxaa\_aa][^\_`]M`^a]\_^  
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AGGAGTTGGAACAATAGCAATGGAGTTAATCAGAATGATC  
+HWI-EAS443:3:98:932:208#0/1  
^a^¥bbb`ZO\_aaYa`¥YRPbaa]b¥¥`^`[\_a`^\_¥¥¥M  
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+HWI-EAS443:3:99:367:884#0/1  
Va`aa`bab`\_baabbbabbbbaab\_bbW[ab\_aaZS^`  
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+HWI-EAS443:3:9:113:1799#0/1  
a`aaaa]aaaaa`a]`a[X\_\_\_\_Y¥\_a\_a]`[\_U`a\_]U  
@HWI-EAS443:3:9:1262:1965#0/1  
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+HWI-EAS443:3:9:1262:1965#0/1  
Ua\_`aa]J0bbb\_`\_]`b\_aba^a\_LEVX\_\_aMaaaa]^a  
@HWI-EAS443:3:9:1486:1496#0/1  
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+HWI-EAS443:3:9:1486:1496#0/1  
a`¥Z^`b^a\_aa^`abb`a]`\_a`]a\_¥Sa\_aa``b¥`W]  
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AAGGAGTTGGAACAATAGCAATGGAGTTAATCAGAATGAT  
+HWI-EAS443:3:9:94:148#0/1  
aba^`b`abaaaaY`aaaa`aaaa`a^`a```aa`\_`\_\_  
@HWI-EAS443:3:69:649:659#0/1  
CTCGAGGAAATGTCACGAGACTGGTTCATGCTCTGCCCAT  
+HWI-EAS443:3:69:649:659#0/1  
aabbabaa^\_aa`aaaa`a```a\_^\_\_aaa`\_`^[\_`\_\_\_\_\_

@HWI-EAS443:3:45:1376:59#0/1  
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+HWI-EAS443:3:45:1376:59#0/1  
]b\_b\_XU`\_aYa¥bY]a]YN¥^]Y[\_][N^J[N¥aBBBBB  
@HWI-EAS443:3:11:282:1876#0/1  
GCATGAATCAGTCTCGTGACATTTCCCTCGAGGGTCATGTC  
+HWI-EAS443:3:11:282:1876#0/1  
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CGCATTTCTTCAATTAACCACCTTATTTCTTCAAATTTCT  
+HWI-EAS443:3:13:212:850#0/1  
aba\_baba`baaab`baaaaa`aaaaaaaa`a``a  
@HWI-EAS443:3:18:1493:487#0/1  
CGCATTTCTTCAATTAACCACCTTATTTCTTCAAATTTCT  
+HWI-EAS443:3:18:1493:487#0/1  
\_\_a¥^aa\_baS\_b`b`a]Zaab`XR^TX[FY`X¥WZZa^  
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+HWI-EAS443:3:3:1692:1751#0/1  
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+HWI-EAS443:3:40:1461:300#0/1  
abbbbabb`bab^baaaaba`]ab]][\_[S¥^`¥^W  
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+HWI-EAS443:3:40:608:1164#0/1  
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+HWI-EAS443:3:56:1490:1224#0/1  
]`\_\_aa¥\_¥UaU`\_Z`ZZSaXZNFx]XSaWUBBBBBBBBB  
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+HWI-EAS443:3:5:1523:1411#0/1  
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+HWI-EAS443:3:86:1334:1155#0/1  
aSIXaZ\_`[bH]bUU\_aMVR`Va\_\_R[Q`aG¥Ya¥WQG\_  
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+HWI-EAS443:3:91:1697:999#0/1  
VV^\_R\_\_W\_Z\_X\_W]¥\_bb`¥QWQ]a¥MR\_[E[OYZ[¥  
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GGCATGAGCATGAACCGTCTCGTGACATTTCCCTCGAGGG  
+HWI-EAS443:3:75:1668:1837#0/1  
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+HWI-EAS443:3:5:397:481#0/1  
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@HWI-EAS443:3:80:410:1964#0/1  
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+HWI-EAS443:3:80:410:1964#0/1  
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+HWI-EAS443:3:88:178:2047#0/1  
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@HWI-EAS443:3:100:240:1683#0/1  
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+HWI-EAS443:3:100:240:1683#0/1  
aaaaa\_baaaaaaa^a`\_¥\_\_^a`a\_\_\_`W\_\_\_`RPM\_  
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+HWI-EAS443:3:10:748:573#0/1  
aaaa`aaaaaaa¥``a^a¥\_[\_^^¥¥¥Z[\_\_\_`URZ¥\_Y  
@HWI-EAS443:3:12:141:183#0/1  
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+HWI-EAS443:3:12:141:183#0/1  
`Taa^aabUba\_S]^a^Y^Z`\_\_\_NV`\_Qa`S¥^UZY\_V\_  
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+HWI-EAS443:3:14:301:364#0/1  
a`[^a`aaaaaaa`a¥aaaaWa\_^\_U\_W¥\_¥\_\_\_[\_¥T  
@HWI-EAS443:3:14:917:1198#0/1  
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+HWI-EAS443:3:14:917:1198#0/1  
a`]Zaa`^a`^a][[^\_Z]^`a\_[XYV]\_\_ZV[T[\_\_\_TZWZ  
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+HWI-EAS443:3:15:1493:15#0/1  
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+HWI-EAS443:3:15:740:2012#0/1  
a]\_Y\_\_a]ab]^Y\_]X`ZVU^aaR`WP¥YXVPVSV[ZZ^^  
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+HWI-EAS443:3:18:1647:284#0/1  
abbbabaaaababbaaa`[^\_\_`\_\_¥\_`\_aT\_Y¥\_¥WYT

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+HWI-EAS443:3:20:1288:877#0/1  
aaX`aaaaaa`a`^Xb\_``]a^`V¥`a^^]¥`\_¥`¥¥  
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+HWI-EAS443:3:26:1096:433#0/1  
a`a^Y[^\_a`ba]\_Z^[[b[¥ab[^[\_]¥[[Y^¥TT^X  
@HWI-EAS443:3:50:510:1018#0/1  
GGGGGGTAAAGCTGGAATCAACAAGGATTTACCAGATTTT  
+HWI-EAS443:3:50:510:1018#0/1  
`bb\_]bZY^V]Z`a^\_XYX`[MQQ]¥\_aa[^TX]aYX[^¥  
@HWI-EAS443:3:74:660:1442#0/1  
CAGGGGTAAAGCTGGAATCAACAAGGATTTACCAGATTTT  
+HWI-EAS443:3:74:660:1442#0/1  
aabaaaV^\_W]b`aaa]aa`baaaaa`\_a`a]a]a`^`\_\_`  
@HWI-EAS443:3:23:567:937#0/1  
ATGGACTTACAATGCCGAAGTGGTTCTATTGGAAAAT  
+HWI-EAS443:3:23:567:937#0/1  
aabaaaaaaaaabaaaaaaaa^aaaa[\_a`^[\_a\_aa``[[\_`[

@HWI-EAS443:3:34:479:500#0/1  
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+HWI-EAS443:3:34:479:500#0/1  
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@HWI-EAS443:3:3:842:156#0/1  
TAGCTGGAATCAACAAGGATTTACCAGATTTTGGCGATCT  
+HWI-EAS443:3:3:842:156#0/1  
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TGATGGGGTAAAGCTGGAATCAACAAGGATTTACCAGATT  
+HWI-EAS443:3:40:708:219#0/1  
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+HWI-EAS443:3:53:159:605#0/1  
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+HWI-EAS443:3:70:893:112#0/1  
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+HWI-EAS443:3:81:1062:497#0/1  
^VY`¥¥^TP]YZ^¥UNX¥RWX^\_Z^]]¥S^¥TYTYXY[`a  
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+HWI-EAS443:3:86:1443:239#0/1  
aY`]]`aS`\_YaUH][bbaUa\_XVNOa\_^^U[`\_G]BBBB  
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+HWI-EAS443:3:8:1792:1811#0/1  
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+HWI-EAS443:3:95:1189:1011#0/1  
¥bab` `baaba`bbaaa\_¥¥Wbbabababaa¥ab`aa`\_a  
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+HWI-EAS443:3:100:1571:267#0/1  
a¥V^a`\_a\_a¥[[¥][^¥a^`\_\_aaPPW]Ua^a]YWQ]]  
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GGGTAAAGCTGGAATCAACAAGGATTTACCAGATTTTGGC  
+HWI-EAS443:3:100:91:502#0/1  
^`b\_aUR^`baa]a\_``aaaabbaaba\_RW]a[a\_\_\_\_]`\_  
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+HWI-EAS443:3:10:786:1924#0/1  
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+HWI-EAS443:3:11:299:1499#0/1  
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aa^`TQZ\_\_a`a]\_¥¥aaNa`¥VUSV[WWY¥WZ¥VVYWY¥  
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+HWI-EAS443:3:12:482:679#0/1  
\_Y^aZH\_¥abaaaaaaXabaaaab\_abab^`aaaa`a`\_  
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+HWI-EAS443:3:13:1389:1097#0/1  
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+HWI-EAS443:3:13:1680:107#0/1  
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+HWI-EAS443:3:15:401:1965#0/1  
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+HWI-EAS443:3:16:1558:1869#0/1  
¥SYaa¥aa\_a`\_a`Y`a`aa¥^¥WXO\_a¥`¥\_]YW¥^ZZW  
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+HWI-EAS443:3:16:762:1357#0/1  
abaaa[b\_b`bZ]¥Y¥¥a)`[UY\_^[S^]\_\_¥\_¥XORPB  
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+HWI-EAS443:3:18:1046:216#0/1  
aSu`ZaSaa]aaZ`^aa]`\_XZ[MYX^ZZ\_\_W]^ZS  
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GATGGGGTAAAGCTGGAATCAACAAGGATTTACCAGATTT  
+HWI-EAS443:3:18:1255:1367#0/1  
a¥`aabZ`\_Q\_``a`a\_\_\_\_\_a````\_a`^XV\_Z`^\_  
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GAAATAGATGGGGTAAAGCTGGAATCAACAAGGATTTACC  
+HWI-EAS443:3:18:1289:771#0/1  
¥0[W^]¥^\_\_`\_]PZY[X[T`]^¥QZ\_^ZX¥\_[]U\_¥¥V  
@HWI-EAS443:3:18:612:843#0/1  
GGGTAAAGCTGGAATCAACAAGGATTTACCAGATTTTGGC  
+HWI-EAS443:3:18:612:843#0/1  
a¥U¥X```\_]\_^UW0`[aa\_^S\_a``]Z\_¥\_\_aZR\_]`^]¥^



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\_VTTY\_b``\_`K`a\_^JaU]a\_[^TGYEMY`^TKQ\_dW^I  
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+HWI-EAS443:3:1:1674:1273#0/1  
a^`\_aa\_Z`]Z\_[[W\_^]^PV\_ZX\_]R]\_X]XXW\_BBBB  
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GCTGGAATCAACAAGGATTTACCAGATTTTGGCGATCTAT  
+HWI-EAS443:3:1:1761:847#0/1  
a`a``PX^UW\_W\_\_\_\_\_Z`\_\_\_\_XV^aZ]YT`¥XW\_WZBBBB  
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+HWI-EAS443:3:1:310:900#0/1  
a\_a^a`b\_aaa`aaaa`aaa\_Za^\_a`¥FW\_]`\_BBBBB  
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+HWI-EAS443:3:21:1659:1415#0/1  
Q\_abbb\_bb`\_`aaaa`bbbKa`aaaaVbaaKU`baa``  
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+HWI-EAS443:3:21:1716:962#0/1  
a]ZP^\_`\_\_`\_]`¥^U^\_U]]^^Y\_^]XXW`Z]\_Z¥^]X  
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+HWI-EAS443:3:21:329:1344#0/1  
`V[a`^^\_^\_aaa\_a`\_`\_a`\_`\_`\_`^`^`^]¥``^ZZX  
@HWI-EAS443:3:21:438:1069#0/1  
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+HWI-EAS443:3:21:438:1069#0/1  
aaaa`ab\_¥]a\_aa\_¥^`aa`\_\_a\_a`^a^^`\_^`\_`^`\_  
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+HWI-EAS443:3:22:1579:838#0/1  
aaa\_aa\_aa`a`\_aaa`a`aaa`^aa]a`\_`[Y]^`^`^`^`  
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GGGTAAAGCTGGAATCAACAAGGATTTACCAGATTTTGGC  
+HWI-EAS443:3:26:225:1628#0/1  
a`[PUaY^]``\_a]aaZP]a`^Za¥¥\_`\_]P¥UV^VZ\_Wa  
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+HWI-EAS443:3:26:275:423#0/1  
aaaaaaaa`a`a`a`^^``aa\_\_\_\_\_`\_[\_a]^`^^`^^`^`  
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GAAATAGATGGGGTAAAGCTGGAATCAACAAGGATTTACC  
+HWI-EAS443:3:26:877:1012#0/1  
`\_`aa^b^bbb```\_baaaabaaa^`aaaa`a````\_`a¥^  
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@HWI-EAS443:3:32:1172:421#0/1  
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+HWI-EAS443:3:32:1172:421#0/1  
aa^bbbbbab`baaabbaaa\_aaaaa]a\_aaZM[WZ¥  
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+HWI-EAS443:3:32:1214:410#0/1  
aa`aa\_a`aaa`a^aa`^\_a]U`\_a^^aU`¥^S\_\_¥\_  
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+HWI-EAS443:3:32:1740:578#0/1  
a`a\_a\_\_aa]\_a]\_^]`\_¥Z`^^[Y[]^]\_^]^I\_a^  
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+HWI-EAS443:3:33:424:773#0/1  
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+HWI-EAS443:3:34:345:1360#0/1  
a`a]baaaba^\_aaaa\_R¥aaa\_\_a`aa\_a`^^^Z^^Z^  
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+HWI-EAS443:3:35:426:301#0/1  
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+HWI-EAS443:3:38:42:436#0/1  
aa``\_¥[`¥X]\_\_`¥^`a^\_^[]`XX^^\_WBBBBBBBB  
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GGGGTAAAGCTGGAATCAACAAGGATTTACCAGATTTTGG  
+HWI-EAS443:3:39:1086:1388#0/1  
a^ba0L^)`[aab]P¥aaa`\_]`^^YU[Z`X]\_Q\_\_\_\_\_^V  
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+HWI-EAS443:3:39:458:1692#0/1  
`b¥Saabaaa`T\_a`b`a`\_`^J]\_\_`^a`aa\_]aa``\_^U  
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+HWI-EAS443:3:3:520:1771#0/1  
aa^abbab^^aaa¥\_a`\_aa\_a\_\_a^a``a`\_a`^`YTP\_  
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+HWI-EAS443:3:40:1198:1956#0/1  
aabaZbbaa`¥ab^aa\_\_a`aaa`^^^¥Y¥]`a\_\_`\_]\_¥  
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+HWI-EAS443:3:40:638:1231#0/1  
`\_a`SXR[a\_]`^a`\_]`^a`\_`¥\_\_\_YKOL\_]YNPJMVX]V  
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+HWI-EAS443:3:43:1083:217#0/1  
aaab`^aaab^^\_aa\_\_^b^^\_a`\_a\_]\_W^Z^V]TUU^XX  
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+HWI-EAS443:3:45:1696:216#0/1  
WX`a`\_`W`VRUZVa[a\_ZXOVYRVP\_aa]YZ¥Q0¥a[aa`  
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GAAATAGATGGGTAAAGCTGGAATCAACAAGGATTTACC  
+HWI-EAS443:3:46:97:1164#0/1  
`\_baa]`\_]\_aYb`WM`^aWaa^W\_\_[\_`a]^aT¥\_`^`U]^  
@HWI-EAS443:3:47:278:964#0/1  
GGGTAAAGCTGGAATCAACAAGGATTTACCAGATTTTGGC  
+HWI-EAS443:3:47:278:964#0/1  
aaa\_aaabaaaa`aa\_a\_a`\_a\_`^^`^\_\_\_a^`\_`\_`\_]\_  
@HWI-EAS443:3:48:420:155#0/1  
GGGTAAAGCTGGAATCAACAAGGATTTACCAGATTTTGG  
+HWI-EAS443:3:48:420:155#0/1  
a`\_¥Y`\_aa\_\_a`Z\_`¥\_\_Z^^`]V\_^^^`]Z]^ZWZ]YY  
@HWI-EAS443:3:48:947:684#0/1  
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+HWI-EAS443:3:48:947:684#0/1  
aaaaaaaaabbabb\_a`bbaab`aY`^aaaaa\_\_a`]]  
@HWI-EAS443:3:49:1058:327#0/1  
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+HWI-EAS443:3:49:1058:327#0/1  
aaaUa`b^aa`]\_`\_`^`[^]a^\_\_\_^YYYa[¥\_\_\_^\_Y  
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+HWI-EAS443:3:49:1642:1193#0/1  
a`bab`bba]aab`\_`abb`a^^S`TIYa[^`a¥a¥QUWa  
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+HWI-EAS443:3:49:608:396#0/1  
Z]\_aa`X\_\_^[¥`b\_VaZ]abbb¥^Ya]baab[\_ba^`]  
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+HWI-EAS443:3:4:1238:984#0/1  
aaa\_S\_a]a^`a^S^`^`\_]`^]`a]\_`\_`^W[^`Z]^`\_]\_  
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+HWI-EAS443:3:50:1497:268#0/1  
^XaU`babab`ba`abb^X^aaa\_aa\_a¥STUXaaaaa[]

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^babbaababbbbaa`bbaab`a`^aaa^a\_abaa^Z`aa  
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+HWI-EAS443:3:51:80:557#0/1  
abbab\_]b`R`abbaaaaaaaaaaaaa`aaaa`\_ab\_a`aa  
@HWI-EAS443:3:52:1767:868#0/1  
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+HWI-EAS443:3:52:1767:868#0/1  
aba`X`aa`ba`a]a`aaa\_\_`\_\_\_`a`¥X[\_`^\_\_  
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+HWI-EAS443:3:54:478:1482#0/1  
a\_aaa^T^]\_aab]Zaa^abba\_a^\_Y]]XXNRT[QZS  
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+HWI-EAS443:3:54:691:1285#0/1  
`[ba`a`baaa`¥¥`¥`bab`\_aa\_aaa\_]\_`\_`\_U¥[`^  
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+HWI-EAS443:3:55:1114:931#0/1  
abbaabaa]abbaaab`b\_aabaaaaaaaa`ab`a\_aaaa\_  
@HWI-EAS443:3:55:1689:999#0/1  
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+HWI-EAS443:3:55:1689:999#0/1  
ab^aaabaaab`abb`\_ba^aa`a[aWaa^^UWRGP]a^  
@HWI-EAS443:3:56:1398:950#0/1  
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+HWI-EAS443:3:56:1398:950#0/1  
ab\_baba\_aab\_\_bab`ab\_ba`¥`\_Wbaaa\_]¥\_aYa\_  
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GGTAAAGCTGGAATCAACAAGGATTTACCAGATTTTGGCG  
+HWI-EAS443:3:56:203:90#0/1  
aa\_aa\_b\_aaa]\_\_\_Z\_\_`^a`\_\_\_\_\_]^]ZaZ\_\_\_^\_]\_^\_  
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AAATCTGGTAAATCCTTGTGGATTCCAGCTTTACCCCATC  
+HWI-EAS443:3:56:216:2039#0/1  
aaa`a`\_a`^`]a\_\_a[\_\_\_]\_\_\_\_]\_¥¥a`\_\_^ZYX]\_¥  
@HWI-EAS443:3:56:476:609#0/1  
CCCTGCTCATTTTGTGGTATAACCGTACCATCCATCTA  
+HWI-EAS443:3:56:476:609#0/1  
aa]`b\_V^VZ¥b`\_] [Y\_^]¥X^^]]`WPU`VXX^¥a^  
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+HWI-EAS443:3:56:516:363#0/1  
ab]JZ]Sb`Y`Y`¥aa[`[\_a^S`\_\_\_S^\_a]a``]¥Z[  
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+HWI-EAS443:3:56:845:731#0/1  
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+HWI-EAS443:3:57:1060:288#0/1  
aabaaaa\_T[XU^aZYUXT[BBBBBBBBBBBBBBBBBBB  
@HWI-EAS443:3:58:207:1304#0/1  
TGGGGTAAAGCTGGAATCAACAAGGATTTACCAGATTTTG  
+HWI-EAS443:3:58:207:1304#0/1  
aaaaa^`\_^aa`a``aaa¥`aaa```aaa\_Zaa\_\_^¥]\_  
@HWI-EAS443:3:58:611:96#0/1  
GTTGAATAGATCGCCAAAATCTGGTAAATCCTTGTTGATT  
+HWI-EAS443:3:58:611:96#0/1  
a`a`^`a\_a`Z[\_\_\_¥Z\_^\_\_¥]\_`Y^¥[^XX`^`¥¥\_Y^X  
@HWI-EAS443:3:58:887:1151#0/1  
ATGCCGAAGCTGTTGGTTCTATTGGAAAATGAAAGAACTTT  
+HWI-EAS443:3:58:887:1151#0/1  
aWVXa¥XW\_`b[W`a0]¥[MZ\_\_\_\_]]]Z\_\_\_\_]W^]^^^  
@HWI-EAS443:3:59:1465:591#0/1  
TCATTTTCCAATAGAACCAACAGTTCGGCATTGTAAGTCC  
+HWI-EAS443:3:59:1465:591#0/1  
V]Zab¥ZM]aabVaa^XXZWPb`QY]b`^¥`\_b`^BBBBB  
@HWI-EAS443:3:59:1502:767#0/1  
AAAGCTGGAATCAACAAGGATTTACCAGATTTTGGCGATC  
+HWI-EAS443:3:59:1502:767#0/1  
ab^`aaabaaaaaaaaabaaaaa``abaaa^aa`V]\_[U  
@HWI-EAS443:3:5:1405:1774#0/1  
GGGTAAAGCTGGAATCAACAAGGATTTACCAGATTTTGGC  
+HWI-EAS443:3:5:1405:1774#0/1  
abaJaaaba``¥\_a`\_`^aa`\_`\_`^\_[^\_\_]^\_Z\_^\_B  
@HWI-EAS443:3:5:680:222#0/1  
GTAAAGCTGGAATCAACAAGGATTTACCAGATTTTGGCGA  
+HWI-EAS443:3:5:680:222#0/1  
a`aaa¥^a`\_\_\_WXX¥^\_\_¥UZ]`^X`]`XXZ]Z\_]ZBB  
@HWI-EAS443:3:61:394:911#0/1  
AAGCTGGAATCAACAAGGATTTACCAGATTTTGGCGATCT  
+HWI-EAS443:3:61:394:911#0/1  
\_¥abbbaabb\_b``a^baa`a]Xaa``a`aaa][\_\_\_`SU[  
@HWI-EAS443:3:63:953:1441#0/1  
GCTGGAATCAACAAGGATTTACCAGATTTTGGCGATCTAT  
+HWI-EAS443:3:63:953:1441#0/1  
ababaaabbbabbaaaabaaaaabaaaaaaaaaaaaa^¥XSY  
@HWI-EAS443:3:64:1236:87#0/1  
GGGGTAAAGCTGGAATCAACAAGGATTTACCAGATTTTGG  
+HWI-EAS443:3:64:1236:87#0/1  
ab\_]G`[Q\_[U[¥UZS[aTOXSa\_X^¥]YSGR^URZXXZ^  
@HWI-EAS443:3:64:1594:445#0/1  
GAATCAACAAGGATTTACCAGATTTTGGCGATCTATTCAA  
+HWI-EAS443:3:64:1594:445#0/1  
]`a\_]a`aaaaaaaaab`]]\_b\_a``\_YX]``]]][BBBBBB

@HWI-EAS443:3:65:1567:123#0/1  
GATGGGGTAAAGCTGGAATCAACAAGGATTTACCAGATTT  
+HWI-EAS443:3:65:1567:123#0/1  
\_\_Q¥[\_bIb^Z`¥Z¥][\_]H^\_]^¥\_T¥^¥V]X^^aX]XV  
@HWI-EAS443:3:65:935:1071#0/1  
CTGGAATCAACAAGGATTTACCAGATTTTGGCGATCTATT  
+HWI-EAS443:3:65:935:1071#0/1  
aaS][ZX)`aZW`\_ZUZZ`WOT\_\_\_[aY]T¥\_\_TOYP¥^  
@HWI-EAS443:3:66:1317:332#0/1  
AAAGCTGGAATCAACAAGGATTTACCAGATTTTGGCGATC  
+HWI-EAS443:3:66:1317:332#0/1  
\_YL^V\_ba`]¥^]Z]VYZ\_`aa\_\_¥`]]`Q`a]W]\_ZT  
@HWI-EAS443:3:67:1476:475#0/1  
CTGGAATCAACAAGGATTTACCAGATTTTGGCGATCTATT  
+HWI-EAS443:3:67:1476:475#0/1  
SY¥[\_[Z`aXbaZ`bZa[ab^a`bba`a¥\_a[aaVXYBBB  
@HWI-EAS443:3:67:82:944#0/1  
TAAAGCTGGAATCAACAAGGATTTACCAGATTTTGGCGAT  
+HWI-EAS443:3:67:82:944#0/1  
aba]abab`Y^a\_`a¥a]a[aaaaaaaaY`````\_\_`^Z  
@HWI-EAS443:3:68:1268:1399#0/1  
AATGAAGCTGGCGACAGTTGAATAGATCGCCAAAATCTGGT  
+HWI-EAS443:3:68:1268:1399#0/1  
aa\_\_a\_a^\_Yb\_aU^Y\_]\_a^][I`X]V\_a`W\_]OY`N  
@HWI-EAS443:3:68:1346:1978#0/1  
CTGGAATCAACAAGGATTTACCAGATTTTGGCGATCTATT  
+HWI-EAS443:3:68:1346:1978#0/1  
\_a^a`bbb`bbbbbb¥aa\_Y\_]\_ba`aa```Z[\_][  
@HWI-EAS443:3:70:1678:369#0/1  
GGGTAAAGCTGGAATCAACAAGGATTTACCAGATTTTGGC  
+HWI-EAS443:3:70:1678:369#0/1  
aab\_aabaaaa\_b`aaaaba`ba\_a`aX\_aa\_`\_a\_]`  
@HWI-EAS443:3:71:415:1971#0/1  
AGATGGGGTAAAGCTGGAATCAACAAGGATTTACCAGATT  
+HWI-EAS443:3:71:415:1971#0/1  
\_babYbb`]bb\_Yba\_]\_]bbb`aaa\_aaa`abaaa`^`  
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GCTGGAATCAACAAGGATTTACCAGATTTTGGCGATCTAT  
+HWI-EAS443:3:71:505:874#0/1  
a\_T[DVWXZYNQ`YYVZ]`WQU^N¥N\_^¥\_URBBBBBBBB  
@HWI-EAS443:3:72:466:958#0/1  
GGTAAATCCTTGTTGATTCCAGCTTTACCCCATCTATTTC  
+HWI-EAS443:3:72:466:958#0/1  
\_b\_bbabbaabbabb¥bbaabbbabbbaaaaaabaaabaaa  
@HWI-EAS443:3:72:604:1419#0/1  
TAAAGCTGGAATCAACAAGGATTTACCAGATTTTGGCGAT  
+HWI-EAS443:3:72:604:1419#0/1  
^a`a]^\_aabaa]^S\_¥bZ`a^a\_`^Z]]`X`\_V]¥W¥  
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+HWI-EAS443:3:73:1294:1600#0/1  
aaY\_a`¥bb]R^abaYYW`a\_aa\_VZaZ\_a`^[aXZT[Z  
@HWI-EAS443:3:73:1481:974#0/1  
GGGTAAAGCTGGAATCAACAAGGATTTACCAGATTTTGGC  
+HWI-EAS443:3:73:1481:974#0/1  
`baWb][a]a\_]Ua\_Uaa¥`aabX`a\_Z^aa]Y^\_\_^S]  
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+HWI-EAS443:3:74:1744:1190#0/1  
a^aaaaa\_a`]`abb\_aaabU^aa\_a`\_a`\_\_`]a^`a^  
@HWI-EAS443:3:74:295:1957#0/1  
GGGTAAAGCTGGAATCAACAAGGATTTACCAGATTTTGGC  
+HWI-EAS443:3:74:295:1957#0/1  
\_`^Ta`\_`\_]Zaaaa`\_a`^^\_Y\_``aaa`\_]Z[^\_]V\_  
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ATTTTGGCGATCTATTCAACTGTCGCCAGTTCATTGGTAC  
+HWI-EAS443:3:74:741:546#0/1  
abbaabbbbaaaaaab^aa[] [aa\_abV]R]¥N\_a]aBBB  
@HWI-EAS443:3:75:366:1305#0/1  
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+HWI-EAS443:3:75:366:1305#0/1  
abb\_baabbbbbbababbaababbabaaaa`a\_\_a  
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TAAAGCTGGAATCAACAAGGATTTACCAGATTTTGGCGAT  
+HWI-EAS443:3:76:1086:445#0/1  
aaa¥`aa`a^Y\_\_^\_\_a^\_\_`\_`Z]]`^^]`\_\_\_X^^Z  
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GGGTAAAGCTGGAATCAACAAGGATTTACCAGATTTTGGC  
+HWI-EAS443:3:76:420:1353#0/1  
aa\_\_a`aa`a`\_`^`aaaS`\_a`\_\_a]\_\_a\_\_\_\_\_¥Y^  
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CTGGAATCAACAAGGATTTACCAGATTTTGGCGATCTATT  
+HWI-EAS443:3:76:556:791#0/1  
abbaabbbbaabbbbbbbaaa¥aabab`ba`^^`^`^a  
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GGGTAAAGCTGGAATCAACAAGGATTTACCAGATTTTGGC  
+HWI-EAS443:3:77:1021:596#0/1  
abb[^WT\_aabba`aSba`]abb^a`ab]WZ`\_`aa]\_a`  
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AAATCTGGTAAATCCTTGTTGATTCCAGCTTTACCCATC  
+HWI-EAS443:3:77:415:100#0/1  
abaaaaab`aaaaaaab^aa\_a`^`a^`\_`\_]Y]]^Z  
@HWI-EAS443:3:78:267:1431#0/1  
GGGTAAAGCTGGAATCAACAAGGATTTACCAGATTTTGG  
+HWI-EAS443:3:78:267:1431#0/1  
^^\_HP[`b`¥Q]\_baaba\_`S`]]]`a`a`^^^^]W  
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ATGGGTAAAGCTGGAATCAACAAGGATTTACCAGATTTT  
+HWI-EAS443:3:78:962:1265#0/1  
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+HWI-EAS443:3:79:1513:540#0/1  
a`a^]\_aa]]\_`[`aa`\_`aa\_¥]a`aaaa\_`Y`[QZ¥]  
@HWI-EAS443:3:79:743:1929#0/1  
GGGTAAAGCTGGAATCAACAAGGATTTACCAGATTTTGGC  
+HWI-EAS443:3:79:743:1929#0/1  
aaa¥aaaabaaaab`baaaaaa]```aaaa`aa```\_^]a  
@HWI-EAS443:3:80:203:648#0/1  
TAAAGCTGGAATCAACAAGGATTTACCAGATTTTGGCGAT  
+HWI-EAS443:3:80:203:648#0/1  
a]`¥`a```]`X]aa`aa[a^[G\_`a\_``^^`a]\_`YZ^`\_  
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GCTGGAATCAACAAGGATTTACCAGATTTTGGCGATCTAT  
+HWI-EAS443:3:80:280:559#0/1  
a``a``Xaa\_a\_a^^`[````\_]T]Z\_\_^]]\_`\_\_UUSU¥  
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GGTAAAGCTGGAATCAACAAGGATTTACCAGATTTTGGCG  
+HWI-EAS443:3:80:324:176#0/1  
ab`a``aaaaaaaaZU^aaaa```aa[Y^\_]`\_^^[¥¥a  
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CGACAGTTGAATAGATCGCCAAAATCTGGTAAATCCTTGT  
+HWI-EAS443:3:81:839:1621#0/1  
aaabaa^aaaaaa`a\_a`aaaaa`\_\_\_\_Za`aaY\_\_`\_\_  
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TGGACTTACAATGCCGAAGTGTGGTTCTATTGGAAAATG  
+HWI-EAS443:3:82:507:218#0/1  
abbaabaaaaaaba\_a\_a^aa`aa\_`^a``aaa]]\_\_^`  
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GGTAAAGCTGGAATCAACAAGGATTTACCAGATTTTGGCG  
+HWI-EAS443:3:83:27:1882#0/1  
a`LY\_T^b\_a^K¥\_a`b`a`^a]`\_ab]][\_^¥W^\_U` [  
@HWI-EAS443:3:84:557:453#0/1  
GGGTAAAGCTGGAATCAACAAGGATTTACCAGATTTTGGC  
+HWI-EAS443:3:84:557:453#0/1  
a¥HLTZ]a]Raa^^^]\_^X\_]a]NQU]X]]OXRSTYYVY]  
@HWI-EAS443:3:85:807:592#0/1  
ATGGGGTAAAGCTGGAATCAACAAGGATTTACCAGATTTT  
+HWI-EAS443:3:85:807:592#0/1  
abbaaa\_aa\_aaaa```aa`a`a`a\_^`````\_^]\_\_^\_  
@HWI-EAS443:3:86:316:802#0/1  
GCTGGAATCAACAAGGATTTACCAGATTTTGGCGATCTAT  
+HWI-EAS443:3:86:316:802#0/1  
aaabaa\_\_aaaa\_IY]S]aaaa`P]a`a^````]YX\_U`^X  
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+HWI-EAS443:3:87:1277:606#0/1  
ab^R[`aaRa\_a^a`^¥]R`¥\_a`aa\_^^`a\_a`\_aaZZ  
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@HWI-EAS443:3:96:886:1201#0/1  
GGTAAAGCTGGAATCAACAAGGATTTACCAGATTTTGGCG  
+HWI-EAS443:3:96:886:1201#0/1  
`\_[abbbaa`^a¥]aba\_]a\_aaa`^U]^S^`]aaa`a  
@HWI-EAS443:3:97:1454:1546#0/1  
GCTGGAATCAACAAGGATTTACCAGATTTTGGCGATCTAT  
+HWI-EAS443:3:97:1454:1546#0/1  
aa\_a`^a```\_0`aaa]\_a\_a^W]UYZ^\_``OZXTRXZZ  
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+HWI-EAS443:3:97:149:1463#0/1  
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AATAGATGGGGTAAAGCTGGAATCAACAAGGATTTACCAG  
+HWI-EAS443:3:97:60:77#0/1  
a`Z0`\_aaa[^Ua\_]\_\_\_\_\_¥]W]^XS]^Z\_\_\_\_]^XX]ZZV`  
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+HWI-EAS443:3:9:1115:1145#0/1  
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GGGGTAAAGCTGGAATCAACAAGGATTTACCAGATTTTGG  
+HWI-EAS443:3:9:1228:1084#0/1  
a\_bb¥aa¥aa`baX]Z][HX`^^^[¥Ya¥VN]a[a¥``aX  
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GCTGGAATCAACAAGGATTTACCAGATTTTGGCGATCTAT  
+HWI-EAS443:3:9:1616:521#0/1  
aa``]UZ[``ZP][`\_\_\_\_``¥YW]`U]\_\_`YGY\_[WRWYB  
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`T[[aY^`a\_ba`a\_YX¥\_`a`^`\_Z`^^Ya\_]^^\_ZTZ  
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+HWI-EAS443:3:9:690:802#0/1  
abbVQ^`]]`abXaYST¥]b`a]aSWX`\_`^a\_¥\_`Z¥`^  
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+HWI-EAS443:3:25:1604:1134#0/1  
a\_Z^`¥QO\_] [XBBBBBBBBBBBBBBBBBBBBBBBBBBBB  
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+HWI-EAS443:3:11:1045:115#0/1  
aaaa¥TMGaXYN¥aaXaa`]bbNbbba\_a`\_aa`a`¥[^`B  
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+HWI-EAS443:3:100:709:539#0/1  
aa\_Ia`baabb\_bbb\_bb`babba`babbb\_[Y]BBBBBB  
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+HWI-EAS443:3:23:1218:1787#0/1  
ababb\_¥abbbbaaaabbabbaa`aaZ^aaaa`\_`aa  
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CGCCAAACTCTCCTTATTTCTTCTTTGTCATAAAGGATGA  
+HWI-EAS443:3:26:928:1523#0/1  
aabba\_^WaYaa`abWabaX¥`\_aaa[`a`]aa\_TWW\_^B  
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GTTTGCTTGGCGCCAAACTCTCCTTATTTCTTCTTTGTCA  
+HWI-EAS443:3:32:324:238#0/1  
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GAACTCATCCTTTATGACAAAGAAGAAATAAGGAGAGTTT  
+HWI-EAS443:3:36:1682:475#0/1  
Zabbb`¥^`a`a[aa¥`^^a^]b[\_````a`a]aS^¥  
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¥bbaX^[Zb¥baab\_F\_b\_J\_baaab`aba]aa\_¥ZaaaX  
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+HWI-EAS443:3:58:676:639#0/1  
`¥Zaa`RQSL`K¥a^\_ZX¥`\_Ra\_P\_aa]¥Z]`a^QW\_YY  
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+HWI-EAS443:3:66:1441:1342#0/1  
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GGCGCCAAACTCTCCTTATTTCTTCTTTGTCATAAAGGAT  
+HWI-EAS443:3:86:724:595#0/1  
abaaa]]UWta[a]`aa`aa`\_a`^a`````\_\_a^^]]¥  
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GGTAGATGTTTAAAGATGAGTCTTCTAACCAGGTCGAAA  
+HWI-EAS443:3:8:855:1093#0/1  
¥¥0¥\_[S[Z]aaa`a[¥aaaW\_a^X`[\_]`\_]ZSWR^B  
@HWI-EAS443:3:11:477:1772#0/1  
GAAAGAAAGAGCAGAAATGAAAAGTGGCGAGAGCAATTGG  
+HWI-EAS443:3:11:477:1772#0/1  
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CAATTGCTCTCGCCACTTTTCATTTCTGCTCTGCTAGGTT  
+HWI-EAS443:3:18:199:610#0/1  
aa¥a\_HZ\_a`\_a`\_¥]^`¥Q^¥\_WXZ`\_\_Q¥\_WW^XWW  
@HWI-EAS443:3:38:115:734#0/1  
CCGGCACGAGACCTTCACTACCTCCAGAGCAGAAATGAAA  
+HWI-EAS443:3:38:115:734#0/1  
abX`aaa\_]a`\_\_a`aaa\_a`\_\_a`^[W[X^YFX`]YY  
@HWI-EAS443:3:58:664:1666#0/1  
AGATGTTGGAGACCTTCACTACCTCCAGAGCAGAAATGAA  
+HWI-EAS443:3:58:664:1666#0/1  
U^W¥]]aZ¥R]]YYOVW¥ZY\_SY]¥USWS¥`X\_Y\_¥`U]X

@HWI-EAS443:3:5:705:1990#0/1  
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+HWI-EAS443:3:5:705:1990#0/1  
^b^OVJ\_`abab^\_WXab\_\_Xaa¥aBBBBBBBBBBBBBBB  
@HWI-EAS443:3:75:1446:1234#0/1  
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+HWI-EAS443:3:75:1446:1234#0/1  
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@HWI-EAS443:3:78:474:1975#0/1  
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+HWI-EAS443:3:78:474:1975#0/1  
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+HWI-EAS443:3:16:657:45#0/1  
^V¥`a]U^aa^\_`^VPDOZa¥a¥¥`ULVU^[U^¥YF[VW^  
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+HWI-EAS443:3:38:1766:27#0/1  
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+HWI-EAS443:3:21:360:847#0/1  
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+HWI-EAS443:3:85:428:1594#0/1  
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+HWI-EAS443:3:97:1033:1564#0/1  
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a^aa`Z`]\_aaa```a`a`\_`\_a\_\_\_\_\_``^`\_```]]^^  
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a)`^a^Xaa\_[D[\_Wa\_\_X`MV[]\_¥^`[OZ[]^YZ^^  
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^^^_^_¥`ba`b]F^[a_]a`abaa`^__Z_ab^^a
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`_`¥_baba_IIP]Tb^ba¥¥NZ_ab_Wba[^_THHZPaQD
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^bb¥H]YWU`Z¥U_ab¥UT¥^`¥^¥_YU^U[V_JZYV]a[
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a`b`aa[a_a`XU¥`^_YQNY^U^]`¥UO¥`0¥^¥]L][
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_]__Zaa_``a_TX_[`a¥`[^a^¥[aa_¥_[`W_YQ
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`¥T`VH]a`a`a_____```][T_`^`Z[Y`_^`_`^dW____
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+HWI-EAS443:3:15:582:1201#0/1
abbaaaaaaa`_a_aa`b`_aa`a`_a`^a_`a_`^`^]_
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_¥Z^bab[baaba`bab^_aab[bb_a`a]]a`_a¥^`_a
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+HWI-EAS443:3:15:880:1063#0/1
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+HWI-EAS443:3:16:1326:69#0/1
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+HWI-EAS443:3:16:1446:349#0/1
abbab_a`aa_a_aa```_^a`a]_aZ``aa___]_aW`_`
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I¥_abb]bbbbbb`^aa`a_bb]a`aaabbbab`bab^b
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+HWI-EAS443:3:16:618:1827#0/1
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a`W``_a``^`X_]_]UQRZLWX]]^_]XZZ_WUYZ¥ZZT
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@HWI-EAS443:3:17:1203:1062#0/1
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I]_]a¥``aa][^_Z]Z_``^aX__aa`____]R[^G`
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ab`baaa]_`a_a^a`]]`aaa`````a_a_a[_a_W``
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+HWI-EAS443:3:18:1055:940#0/1
ab`VbS`a`a`_a[JT_[]^VUa_`^____`_U]]`¥¥Y
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+HWI-EAS443:3:18:1236:847#0/1
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+HWI-EAS443:3:18:174:206#0/1
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@HWI-EAS443:3:18:189:1833#0/1
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+HWI-EAS443:3:18:189:1833#0/1
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^^`]`¥aX^aX¥XaYX``baTZS[L]aUPX^_a_P_[_V_
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a`ab¥¥_¥a`aa¥a`aa]]aaaa¥_[__`]^`_Ta[]_`_`
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¥`bbaaaababZ`ZVa_[Ya`]^`^`Va__^USR^[SX__
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aa_¥]`¥``aa¥T`_^]`a]Y``]^`^YYY]_____`_]`
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aaaaaaaa`a`a_aa^aa_a[_aaa```__V`__`_]`^]
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aa^a`Xa^aaa`__Z``][__`S^`[T]`X]`__`YSY_^^
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+HWI-EAS443:3:19:18:515#0/1
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+HWI-EAS443:3:19:238:401#0/1
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`Y`aZS``_[^_]XQYSQL[ZPXYQSU___aYY¥[RQ]]W
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aaa`_a`_abaaa]`a_a_a_a__`__`_`^__[_U_]][
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`ab[bSa_aa¥`_WYaa_aa_a]aa^a`aaaa`^TX_BB
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+HWI-EAS443:3:1:1100:1215#0/1
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+HWI-EAS443:3:1:1305:877#0/1
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+HWI-EAS443:3:1:145:1385#0/1
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+HWI-EAS443:3:1:1752:551#0/1
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+HWI-EAS443:3:1:541:753#0/1
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+HWI-EAS443:3:1:551:1127#0/1
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+HWI-EAS443:3:1:835:288#0/1
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+HWI-EAS443:3:20:1343:403#0/1
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+HWI-EAS443:3:20:180:1553#0/1
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+HWI-EAS443:3:20:558:586#0/1
`aXWWaaaa_b^W`X^_a`_aX[aaaQV`']X¥_a_Qa` [
@HWI-EAS443:3:20:767:230#0/1
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+HWI-EAS443:3:20:767:230#0/1
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a`]'`aa`^`aZ__]__`_]^`X]^__^]]X_T]]X^
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+HWI-EAS443:3:21:1037:527#0/1
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+HWI-EAS443:3:21:1120:726#0/1
`^`^^`aaaa_aZ]^`^__b]a¥Ya¥_Ua_a`^`aT__Q`
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+HWI-EAS443:3:21:143:155#0/1
aaaaaaaa_aa_a_a^aa`^`^^`__^aY`]^]]Y_T
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+HWI-EAS443:3:21:1451:1213#0/1
ZX[]`]aXMa]_`_¥`a`^^`[[]^_`_`_`[¥[ZY¥TTYU
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+HWI-EAS443:3:21:1540:500#0/1
V_`a_SZ_X`^^`a_QS`^`S^a^a`_a]_X__`¥_¥a^U
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+HWI-EAS443:3:21:1780:1265#0/1
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+HWI-EAS443:3:21:254:793#0/1
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+HWI-EAS443:3:21:596:1275#0/1
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+HWI-EAS443:3:21:59:899#0/1
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+HWI-EAS443:3:21:821:720#0/1
`a_aaaab_aa`W`aab_a]a¥Y^`^`_TW`YV¥]_a_
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+HWI-EAS443:3:21:895:405#0/1
`abbbbaaZ0[abaa__[_^`a_a`[_^K^_R^]GNS^B
@HWI-EAS443:3:21:916:1681#0/1
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+HWI-EAS443:3:21:916:1681#0/1
]aaa`abaa¥aaa]¥a[a¥aa_a¥Paa_```_]_____N^
@HWI-EAS443:3:21:959:1283#0/1
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+HWI-EAS443:3:21:959:1283#0/1
Y^bbbbbbbaa^`XZ^]aaX^^_Y`¥`^L`][a____
@HWI-EAS443:3:22:1148:405#0/1
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+HWI-EAS443:3:22:1148:405#0/1
aS_]aaa_a_¥W^^^`[_a¥]_aa]^]^^V_^Va¥^Y
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+HWI-EAS443:3:22:1148:908#0/1
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+HWI-EAS443:3:22:1291:1756#0/1
aa`¥`___`_W`^T[_`^]^`^XV`¥ZZMTYYYQ¥YWT
@HWI-EAS443:3:22:1343:372#0/1
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+HWI-EAS443:3:22:1343:372#0/1
]bbabbb_W]aaa_aaaa`aabb¥`baY`b`b`_aa`[^QV
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+HWI-EAS443:3:22:1647:29#0/1
aa¥aaZZZbaX`_`Z`X_]`^`a_aYM[_X]]]`]W[_S]
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+HWI-EAS443:3:22:1675:1039#0/1
a`a`_¥`a`_aa]]_]`_a^a^]a^`]]_`_]`X`^X_
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+HWI-EAS443:3:22:321:796#0/1
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@HWI-EAS443:3:22:405:1460#0/1
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+HWI-EAS443:3:22:405:1460#0/1
¥a^W`RW`_aU_bb`TT¥^`^a]S`_R¥T``aaVaaHT_
@HWI-EAS443:3:22:570:1306#0/1
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+HWI-EAS443:3:22:570:1306#0/1
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+HWI-EAS443:3:22:808:1692#0/1
aabaZabaQZ`]bY_^]aa_]aa_a`Y`a]Y_]a[a_]`^
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^b_bbbbbbbbabbaabbbabaaabaaaaaa¥L^
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+HWI-EAS443:3:23:1197:255#0/1
Z`abbabbbbbbabb`bbbaabba]abbabbabaaaa[
@HWI-EAS443:3:23:133:199#0/1
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+HWI-EAS443:3:23:133:199#0/1
a`ba`a]_a`aaaaaa_aa`_[aaaa_aa^_]_a]a`Ya
@HWI-EAS443:3:23:1378:944#0/1
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+HWI-EAS443:3:23:1378:944#0/1
`baaaaaabaaa_[a`aa`^a_a`_aa`_`_a]a_R`

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+HWI-EAS443:3:23:215:454#0/1
aaa^a]`aa`aaa`_`_aa^`_a[`a^__a`^[[¥_X`_
@HWI-EAS443:3:23:281:1643#0/1
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+HWI-EAS443:3:23:281:1643#0/1
]b`abaabaabba`aab`ab_aaaaa^T`a__a^`U^U
@HWI-EAS443:3:23:284:20#0/1
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+HWI-EAS443:3:23:284:20#0/1
aaa_`aaaa¥^`¥`__a[]]_a¥^¥_a¥^ZT¥U_[W_¥_
@HWI-EAS443:3:23:319:1442#0/1
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+HWI-EAS443:3:23:319:1442#0/1
aa]__aaa¥`_b`¥`]W]a_[a^V`__`[_aa__aa^SY^
@HWI-EAS443:3:23:33:1627#0/1
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+HWI-EAS443:3:23:33:1627#0/1
aaaa_ab`^b_aa_`a`bXa`a_a_a`aVaaaa`]]ZR]
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+HWI-EAS443:3:23:413:506#0/1
aSaaaa]_¥`a`a`^^`¥`^^`^¥¥__^^¥YT]NR^
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+HWI-EAS443:3:23:58:334#0/1
a`^^`¥]a_Z^¥_W]_XP`^a`^^]UN__a`XTXYXN¥Z^
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+HWI-EAS443:3:23:789:768#0/1
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+HWI-EAS443:3:24:130:1022#0/1
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+HWI-EAS443:3:24:1358:1166#0/1
ababaaba^ab`b`a`W_a`[aaZ`^^`a¥Z`aa^_¥`_U
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+HWI-EAS443:3:24:1482:765#0/1
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@HWI-EAS443:3:24:387:943#0/1
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+HWI-EAS443:3:24:387:943#0/1
^`a`aa`a`]]`[aQS^^^¥Y^_Q^aba]`W[a_Z`a
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@HWI-EAS443:3:24:742:1058#0/1
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+HWI-EAS443:3:24:742:1058#0/1
^b`_aaaa`bbbab`a`aaaaa¥__¥]``a`____`Y]Q¥
@HWI-EAS443:3:24:793:109#0/1
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+HWI-EAS443:3:24:837:102#0/1
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aa`bb`_`abbaab`bbab¥bb^__ab`aW`_`a[_baWL[a
@HWI-EAS443:3:24:917:1220#0/1
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+HWI-EAS443:3:24:917:1220#0/1
T]_`a^`a]b]H]U¥b`Y_S`_`^]Vabbbab`0¥a[X`
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+HWI-EAS443:3:25:1031:1181#0/1
`X`a_¥ZX[X¥]a_a¥VYWUWZ`[[U____UZ_Y]YXJNV¥
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+HWI-EAS443:3:25:1095:974#0/1
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+HWI-EAS443:3:25:129:692#0/1
aaa[HZLXX¥a^]S_^^[VZ`a_¥`^]_]X]^WH[^FS^
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+HWI-EAS443:3:25:1575:1691#0/1
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+HWI-EAS443:3:25:1716:1109#0/1
a]]^¥^¥b^`abbbababaX`abbab`ab]aaaa`a^]DR
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+HWI-EAS443:3:25:322:436#0/1
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+HWI-EAS443:3:25:474:1186#0/1
aa`^¥ab_`_abbb¥OWb^Z¥_a_a`[a`a_aa_a`a`^^

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+HWI-EAS443:3:25:512:479#0/1
abbbbbbbbbbbbbbbbbbaaaa`aba]`b]aa_`Q¥]V
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+HWI-EAS443:3:25:584:887#0/1
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+HWI-EAS443:3:25:984:1324#0/1
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+HWI-EAS443:3:26:1042:957#0/1
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+HWI-EAS443:3:26:1211:1991#0/1
ab^ab_^aab_aa`_babb_a`^`_^WSYO_¥R^^RMM^
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+HWI-EAS443:3:26:124:1340#0/1
a¥aaaabaa¥`ba_aab¥baVab`^^ba_aaa`[aaaaba
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+HWI-EAS443:3:26:1319:814#0/1
S`baa`^aaaYXT¥]]^a`^a`U`a^]]`aa`U^a^VY
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+HWI-EAS443:3:26:1571:680#0/1
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+HWI-EAS443:3:26:1601:833#0/1
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@HWI-EAS443:3:26:1636:369#0/1
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+HWI-EAS443:3:26:1636:369#0/1
a`ba]aaa¥`¥aaY_`_]a__S_a_]``aYM[[ZVa_S_
@HWI-EAS443:3:26:281:105#0/1
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+HWI-EAS443:3:26:281:105#0/1
_a_ab__`[_a^abbW_Wa`¥_Sb__ba_aabaaZ¥`ab_
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+HWI-EAS443:3:26:303:414#0/1
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+HWI-EAS443:3:27:1028:1525#0/1
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+HWI-EAS443:3:27:1043:1444#0/1
_^aX`bbaa^ba`_baaaa`Y_PR¥`aZa`¥¥^`¥¥a__`
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+HWI-EAS443:3:27:1146:1110#0/1
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+HWI-EAS443:3:27:1148:1184#0/1
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+HWI-EAS443:3:27:1176:970#0/1
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a``b_WWb`b[^[_a`baa]¥_XaY_aa``_]`^Z___a
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+HWI-EAS443:3:27:1700:77#0/1
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+HWI-EAS443:3:27:1719:1900#0/1
a``^¥baa`aa^ba`a_Na]a_a_a^aa``____`X_`U
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+HWI-EAS443:3:27:1736:1612#0/1
`b^a[PIX`ab^[a`_`b[`_¥^`P]a[`Y[Y_RZIZTYQ
@HWI-EAS443:3:27:203:1543#0/1
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+HWI-EAS443:3:27:203:1543#0/1
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+HWI-EAS443:3:27:234:939#0/1
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+HWI-EAS443:3:27:259:1312#0/1
¥_b``XL[^abbaaa]_¥V_aabaabbaaaaaaa¥aa_
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+HWI-EAS443:3:27:363:516#0/1
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+HWI-EAS443:3:27:369:873#0/1
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+HWI-EAS443:3:27:553:1280#0/1
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+HWI-EAS443:3:27:581:1131#0/1
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+HWI-EAS443:3:27:926:945#0/1
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@HWI-EAS443:3:28:1300:1235#0/1
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+HWI-EAS443:3:28:1300:1235#0/1
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+HWI-EAS443:3:28:173:118#0/1
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+HWI-EAS443:3:28:64:615#0/1
a`aaaaabaaa_a_` `[`]`__`^`__` `]P][V_`^`]ZZ
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+HWI-EAS443:3:29:1148:848#0/1
aa_aaaa_aaaa_aa^^a___` `]a¥a`_`_`_a_a__dW`_`
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¥_^Y`abb_`b]bVa` `]`_W¥H`_`_aa[WW`]N¥aZaP¥
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+HWI-EAS443:3:29:1568:1916#0/1
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_aYU`^^¥_a_YS][^^`_XY`^^`_a]]^¥¥S`_R_U_
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aaa`__`aaaa`aQ_`____a_a¥V¥UN¥a[¥¥[¥_WZVG^
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ab_¥` `_ba]]^W¥¥_]aab_a`aa_a` [`PZaVa` a^[R
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+HWI-EAS443:3:2:333:1121#0/1
` `a_a_aW`_]aaaa¥`a`a_aa^` `a_^_Y`ZU¥X^¥
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a_`_aa___aaa`__aU`_`^a_[M_W]R^`_Y`^Z_] [^Y
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_U_aW[_` `__aXWWY__]QMS]]]S_^US[Y^X¥Y^]]W
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` ` _Za` ` `^^^a¥VZLY^[¥SVS^YU^ZWU^_Y¥TVRGTS
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aab`W__abbaba__` [`]_` `^`_Za`^`_aa_¥]Z[V`
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_¥_ba_`abbb`b`b^` `^b^aa` `aaaaa`_ZU^¥_TU_
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+HWI-EAS443:3:30:590:1774#0/1
ab`Ua`_`a_`_]`[_`a_`^`^`a_WR¥^¥Z[^Y_]`][U
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aaa`_aaa¥a`_a`_ab^aa`a^`_aa__a`_Ta__`_Z]
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aa^]_]aaa`aa^a``a[U_T`__W^S`b`[___¥`^XI
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``[aW]`a]_```a^`aa_dW_aaaa^a^`^aaVb_`S
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a_aa_`Z`_a]aa_]T^aa__aV`_aa`````_`_a_`_[]
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+HWI-EAS443:3:31:532:353#0/1
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]_``_U]^`[bb`Tabbb`_G^^^_]__aY`^ba`_a^a
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a___`^abaaaaaaaa^aaaaa_aaa`a```]a__aX``
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aaaa¥V_aaaa`a_a`^a`___[`]W¥T`^YY_^^^]_
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_bbb_VZ_abb`a^[^`a_a]Z¥aaa_Z^`_aaa_a_``^
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aab`_a_aab`_`^`_`_`^a`aI_____]]^^`[¥`_]_X_XV_

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^_0¥XV0_¥¥_TY`_`_a`^_[¥U]_QUKUY_U_V¥DY]a
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+HWI-EAS443:3:37:356:1193#0/1
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^a_^YVZR`^WZY`L^YJYY]]`_`RSO^TV]]`_a[_`XX
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+HWI-EAS443:3:40:1523:849#0/1
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Wa_b`bbb`S`_XT`b_¥Ybaabb`_Maaa]babbab`_`S
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+HWI-EAS443:3:40:197:620#0/1
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+HWI-EAS443:3:40:44:1459#0/1
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@HWI-EAS443:3:40:51:270#0/1
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aaa`_`_`_`^Y^`^`X[_`_`^¥^[]WYRTBBBBBBBBBB
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+HWI-EAS443:3:40:574:301#0/1
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aaaaba` `aaaa`a`aa_Y__aa`a^Vaa_a`__^`^a_`
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+HWI-EAS443:3:40:729:1436#0/1
a`aababaaaba`aababUaaaa_Yaa``aa]aa_a``
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+HWI-EAS443:3:42:1067:1520#0/1
a`ba]^^a`ba]baaa__a_a``^aaaaa`a````^aT`
@HWI-EAS443:3:42:1108:1170#0/1
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+HWI-EAS443:3:42:1108:1170#0/1
a_aa¥ba_U[_aaaa`]]^`]XZaaaaaaaa`¥0_``a¥
@HWI-EAS443:3:42:1204:493#0/1
GACCTTCACTACCTCCAGAGCAGAAATGAAAAGTGGCGAG
+HWI-EAS443:3:42:1204:493#0/1
a`a`UaV¥Saa`a_``aaY_^_b____`aZ`_NaUa_^a^]
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+HWI-EAS443:3:42:1209:363#0/1
a``a]¥V_Z_^_¥U_`_]_¥`aX`abb_SU¥a^a]]a^_Y¥
@HWI-EAS443:3:42:1301:1384#0/1
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+HWI-EAS443:3:42:1301:1384#0/1
abababb_bbaab_Ua]b`baba_]a``aa`a_^ba_a]
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+HWI-EAS443:3:42:1384:1487#0/1
aaa¥_`^`a^aa^_]Za]^^b`a]_abaP^^Za[_[^W
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+HWI-EAS443:3:42:1426:1659#0/1
a^`_]__a`]aZ_a[[_YR[aZW[^__[[`_`_]_X^X`]X[
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+HWI-EAS443:3:42:1599:1063#0/1
]`baa]aaabbaabaT`]_UW`¥``bba_Y_] [bbaa]_L
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+HWI-EAS443:3:42:1629:334#0/1
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+HWI-EAS443:3:42:1690:1230#0/1
^RZVvaUP`a_Q]_V`¥VHUSFMO[_a]JJ[WYZVZZ[[R
@HWI-EAS443:3:42:285:424#0/1
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+HWI-EAS443:3:42:285:424#0/1
aaa¥a`^^Z_a`aaa`_`[_`]aa```[_`_a_^)`[[S
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@HWI-EAS443:3:42:527:713#0/1
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+HWI-EAS443:3:42:527:713#0/1
a_S_RO[U`[MWR]_aaaZXV¥a[XZNNYX]YFQ¥[JYZ_
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+HWI-EAS443:3:42:533:1019#0/1
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+HWI-EAS443:3:43:1514:542#0/1
[_b_Sa``_G_^a][_]aaaa^aa`_`aY_¥``[WUT_
@HWI-EAS443:3:43:1594:587#0/1
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+HWI-EAS443:3:43:1594:587#0/1
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@HWI-EAS443:3:43:232:579#0/1
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+HWI-EAS443:3:43:232:579#0/1
aaaa`¥aa_b`[_`_`¥aZ_a¥^a__Y__aa^`a]]^^
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+HWI-EAS443:3:43:277:704#0/1
¥aSa_ba]_aV__aa[a`__baa]_¥]__a`]ZZ`aGa]_
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+HWI-EAS443:3:43:412:1721#0/1
aabb]bbb_`Y^aabb`aa_a_aa`aQQZaaaaX`_`_
@HWI-EAS443:3:43:438:13#0/1
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+HWI-EAS443:3:43:438:13#0/1
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+HWI-EAS443:3:43:502:205#0/1
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+HWI-EAS443:3:44:1200:562#0/1
a_a¥aa`_a^`aaa`aa`_aa_a]a]_`^^`_a^_]`Y
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+HWI-EAS443:3:44:1255:1615#0/1
¥_ba`_^bb`aaaabaabb¥baa_aabaabab`aa_a`
@HWI-EAS443:3:44:1290:233#0/1
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+HWI-EAS443:3:44:1290:233#0/1
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+HWI-EAS443:3:44:1314:1514#0/1
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+HWI-EAS443:3:44:1339:1585#0/1
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+HWI-EAS443:3:44:1384:1192#0/1
`bb_baaab[bbaab_a_aa_a_ba`aaaa^ba¥b`_]`X
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+HWI-EAS443:3:44:1399:879#0/1
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@HWI-EAS443:3:44:1514:1844#0/1
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+HWI-EAS443:3:44:1514:1844#0/1
[_a^JZaS]ab`Z^a`XQ^W]WM[_aSPYZa_NYGJTSX[
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+HWI-EAS443:3:44:1609:842#0/1
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@HWI-EAS443:3:44:192:392#0/1
GGACTTTTGATCTCGGCGGAGCCGATCAAGGAATGGGGCA
+HWI-EAS443:3:44:192:392#0/1
a_a_aba`aaaaaaaa`aa^_a`a_US_]_YZVRVZ¥aZ¥
@HWI-EAS443:3:44:246:75#0/1
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+HWI-EAS443:3:44:246:75#0/1
a`aab^]_[WY`[_]`a^``__`QT]Q]R¥^Z^a^__]_]_
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+HWI-EAS443:3:44:249:1135#0/1
aa[bb`b]bababba[babbba`bbbabbaWb^aaaa``V
@HWI-EAS443:3:44:327:981#0/1
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+HWI-EAS443:3:44:327:981#0/1
ab`aaaabaa_bbab`aaaba_`abaa`aa]ba`b`a_aZ
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aaaa_bW`a_]_[W^XY_``____]^`YY¥]^`a[S_`]YY
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+HWI-EAS443:3:44:427:1734#0/1
UZ^a^V]ab[baabZ¥aaaa`_^_`^```_[a]_aU`T
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+HWI-EAS443:3:44:704:1629#0/1
abb``]^`aaaaaaaa`aaaa__aadWaa^a`aY`SY¥]
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+HWI-EAS443:3:44:725:1756#0/1
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@HWI-EAS443:3:44:794:1353#0/1
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+HWI-EAS443:3:44:794:1353#0/1
S^`b`^a`b¥J¥ba^ab_`Va]____]`aaaaaa[aU[X[
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+HWI-EAS443:3:44:810:1275#0/1
aa`aaa`____`aaa``__a`aa_a``a_aa]^_`^_a^Z`
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+HWI-EAS443:3:44:867:1337#0/1
Wa`__V_``a`ba```a[`aa][`]¥UY`[```aa]_aaT

@HWI-EAS443:3:44:881:1839#0/1
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+HWI-EAS443:3:45:1130:87#0/1
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+HWI-EAS443:3:45:1201:1490#0/1
^`a_^W^aaa[Y^_]`ZY]XT_a`MMY`S__``_aG_a[Y
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+HWI-EAS443:3:45:1402:1467#0/1
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+HWI-EAS443:3:45:1449:963#0/1
a_QPUTQVX`RXaaN_]a¥TW]PaUI`¥__[] [UWW^U_Z
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¥Za_V_aaaa¥V`LN^[YU^H_]V[ZYZ_^NQYZYNQ[___
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+HWI-EAS443:3:45:1563:1810#0/1
ab^_WOZ^WQZVZZZ]^Y^`a[X]]U_]`a_[]S``V
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+HWI-EAS443:3:45:1665:900#0/1
^`^`a^]YZa_^¥V]a[V``Z[ST_Z_¥^]V__]^TVR
@HWI-EAS443:3:45:1767:1028#0/1
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+HWI-EAS443:3:45:1767:1028#0/1
aa[aaa`aaaaa`a_`a__a___^`_`_]_^]^^]^
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+HWI-EAS443:3:45:186:1301#0/1
aa`a`baa`aba]a__`^[aaa``_aaaaaaaaV]R]``_
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+HWI-EAS443:3:45:226:297#0/1
ab]baaa_]` `]`Z]_a__a_Ya_Y_X_`_`_¥ZYYGa_Z
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+HWI-EAS443:3:45:631:569#0/1
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+HWI-EAS443:3:45:941:181#0/1
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+HWI-EAS443:3:46:1131:255#0/1
aabba_aaaaaa___`_W_^]_^_]a]^a^^]`^]`V
@HWI-EAS443:3:46:1476:1975#0/1
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+HWI-EAS443:3:46:1476:1975#0/1
a]a^a^^a_a`a`^]`a_aYa`_Yaa_]UL^_]Y_ZY_]`
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GTCCCAATTGCTCTCGCCACTTTTCATTTCTGCTCTGGAG
+HWI-EAS443:3:46:1514:424#0/1
a_`^^^a^`_`_]W^_`VS¥`_`U[_`^¥[_[¥¥¥_ZUY
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+HWI-EAS443:3:46:1647:126#0/1
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+HWI-EAS443:3:46:1698:635#0/1
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+HWI-EAS443:3:46:234:152#0/1
Q`][]_`^`_`_a[^____`_`_`_`^_`_`¥^^^`^¥^
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+HWI-EAS443:3:46:407:661#0/1
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@HWI-EAS443:3:46:757:132#0/1
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+HWI-EAS443:3:46:757:132#0/1
a]a]``ba]YaaYa`_]`X_^_^`¥R^X^_]SV_^^V`_
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@HWI-EAS443:3:46:800:290#0/1
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+HWI-EAS443:3:46:800:290#0/1
^¥a`a`_a`a`a]_^a`a_a`]a]^¥_a]S]¥_U__¥`

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aaaa`abaa_aaaa`_aaaa`_`_a_`_`a_dW^^`¥_[-
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_W¥]Z_X`aa_Z]V¥VV¥a`_a_W¥]_R]_^aaWLS_TYY
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ab`b_aaa_^a`a^`¥a¥aR_¥¥_aW_a^____Z_Z`_]
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aa`[___¥a^_a]XZWWZ___^]ZZ^]Z^Z^a__Z]_XZ
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aYR]^_¥_ZU]]]VYY]VV]]XXUUVRXYVVUVXXXRVWR
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+HWI-EAS443:3:47:670:1504#0/1
_`aa^```a[]`¥_aa`bbb`ab_a^W]`a_PYbY¥` [Y`
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R``^_b`_a`aa]^^Zaa¥]_ZQ_T¥¥X`WVWaTTS]a^
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+HWI-EAS443:3:48:77:1638#0/1
aY_Y^U^^_]^L^`[^`^U_`]]][UUab_^[X_R]_X]]Z
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+HWI-EAS443:3:48:795:1572#0/1
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a`_a^`_a^a[`_X__`_]`¥[_^]]_[]_]_]^_U]]U_
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+HWI-EAS443:3:4:222:934#0/1
aaaaaa^aa¥^aaaa^a`_`_`aaa[aaaa]a````]_Z__
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a``^Z_U_^a[`ab[a_aab_b`N¥Y`bT``aYaQT``[`
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+HWI-EAS443:3:4:403:1636#0/1
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¥_`a`^`a`^`aa_aabZVY]a_aWXU][¥`¥¥__a``_]_
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a^a`a__aa¥_``^¥`¥_aV_V^_a_S¥_T¥¥Y`_W¥
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GGGAGACCTTACTACTCCAGAGCAGAAATGAAAAGTGG
+HWI-EAS443:3:58:692:282#0/1
aa_]``aaa`aa`aa^`a_``^a^_a]`[aaZ^Z^`W]`
@HWI-EAS443:3:58:699:1129#0/1
ATGGGAGACCTTACTACTCCAGAGCAGAAATGAAAAGT
+HWI-EAS443:3:58:699:1129#0/1
aabbaa`]aaa`aaY¥aaa]^`]Taa_aXXU`V`a][]W

@HWI-EAS443:3:58:719:844#0/1
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+HWI-EAS443:3:58:719:844#0/1
a`]S^^^aaaZ][V]a_a¥`S`YXZ[¥]__[]XMY^¥Z^`
@HWI-EAS443:3:58:798:884#0/1
GAAAAGTGGCGAGAGCAATTGGGACAGAAATTTGAGGAAA
+HWI-EAS443:3:58:798:884#0/1
aa^¥^_¥aa__^^W¥RTY¥¥__]UU¥]¥¥U^^]PT^_U¥[
@HWI-EAS443:3:58:986:791#0/1
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+HWI-EAS443:3:58:986:791#0/1
K_b`baabWbaaabaabb`bbaabb_0^bbab[`bab
@HWI-EAS443:3:59:1099:1907#0/1
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+HWI-EAS443:3:59:1099:1907#0/1
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@HWI-EAS443:3:59:1191:1243#0/1
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+HWI-EAS443:3:59:1191:1243#0/1
a`a¥`aa¥aaa]a¥_a]`_Y^__`aa```X]_¥Y[[TS
@HWI-EAS443:3:59:1367:936#0/1
AGTATGTCCTGGAAGAGAAGGTAATGGTAAAATTTCTCCA
+HWI-EAS443:3:59:1367:936#0/1
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+HWI-EAS443:3:59:144:505#0/1
aaaa]a_aa_`a`a___^`a`^W__`a_``XZ[_^Y^]W]
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+HWI-EAS443:3:59:1598:1669#0/1
_abYK^U¥S_abb`U`MZaNb`ba`]a]bba]baaaQ`Z`
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+HWI-EAS443:3:59:159:234#0/1
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+HWI-EAS443:3:59:1719:553#0/1
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@HWI-EAS443:3:59:1742:781#0/1
CAGAAATGAAAAGTGGCGAGAGCAATTGGGACAGAAATTT
+HWI-EAS443:3:59:1742:781#0/1
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+HWI-EAS443:3:59:1789:1908#0/1
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+HWI-EAS443:3:59:613:1343#0/1
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+HWI-EAS443:3:5:1223:1008#0/1
WXV_¥FT_Q[]XS[_[W_ab¥WUX¥PL``b_XST_K_]]
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+HWI-EAS443:3:5:1228:646#0/1
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+HWI-EAS443:3:5:1509:1100#0/1
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+HWI-EAS443:3:5:210:795#0/1
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+HWI-EAS443:3:5:32:367#0/1
abbaa``^_a`_a`_[]_`][__¥]`W_]`X]_^_V_B
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+HWI-EAS443:3:5:57:1984#0/1
aaaaaYaa`aa__ba^`baaa_a[_`a^____```^¥`aB
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TGAAAAGTGGCGAGAGCAATTGGGACAGAAATTTGAGGAA
+HWI-EAS443:3:60:1128:1014#0/1
¥a`_`a]a_]__U[^_ZW_]`_YV]ab¥_WY```^^]¥T

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a_TOVUP`¥a]__aZTX^¥a__aU¥^¥`W^YT_Z`_Z_0_
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+HWI-EAS443:3:60:977:470#0/1
____`Zaa]¥SY`Zbaaa]YXZQN¥T_¥`ZX`]T[X^^a
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+HWI-EAS443:3:61:1124:596#0/1
a`_a`^`^aaZY^¥aa`aaaa`aa_Xaa_aQ[a_`^¥^TZW
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+HWI-EAS443:3:61:1251:994#0/1
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+HWI-EAS443:3:61:1488:1468#0/1
aa_]`aa`aa`_`aaaa_a`aaa_a_]`a]¥¥]¥ZQV
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+HWI-EAS443:3:61:1701:320#0/1
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+HWI-EAS443:3:61:313:302#0/1
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@HWI-EAS443:3:61:452:793#0/1
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+HWI-EAS443:3:61:452:793#0/1
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+HWI-EAS443:3:61:668:1405#0/1
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+HWI-EAS443:3:61:716:542#0/1
a_V]R]Z`_]Z¥]a[]Yaa[]V¥aY^WU[V]BBBBBBBBB
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+HWI-EAS443:3:61:812:562#0/1
a_^ZZ_[a]SXU[¥_WP[`_][[_T^WZ¥L[ZFL[GRTWP
@HWI-EAS443:3:61:844:1571#0/1
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+HWI-EAS443:3:61:844:1571#0/1
Z_^]TT_Z_WW[^H¥_a¥W_[TORQ__WSYZ¥][VZV¥RZ

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+HWI-EAS443:3:61:96:1388#0/1
`¥_]_a__babb^^`a^aa`b¥[Xb`¥JT[Z¥¥¥YWX¥V^
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+HWI-EAS443:3:61:997:250#0/1
a_X^W^`baaUV¥a`RZa`]`XX[]`^XY]TPZ¥U]GY
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+HWI-EAS443:3:62:1026:1355#0/1
ab`_`abaa^]¥aaaaaaaaaaaa[a_[a][_^ZZUPTR^_
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+HWI-EAS443:3:62:1098:1386#0/1
a`aa]aaabba`_ba]baaa`a]a_aaa`a_^]_]`
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+HWI-EAS443:3:62:110:1062#0/1
a[]aaabaa¥`^^^aaaa¥^^_`WZ_[Y]^ZZ[V¥Z^YWU
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+HWI-EAS443:3:62:1361:1905#0/1
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+HWI-EAS443:3:62:1522:534#0/1
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+HWI-EAS443:3:62:1535:1114#0/1
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+HWI-EAS443:3:62:1650:377#0/1
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+HWI-EAS443:3:62:187:1566#0/1
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+HWI-EAS443:3:62:250:1957#0/1
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+HWI-EAS443:3:62:290:953#0/1
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@HWI-EAS443:3:62:428:602#0/1
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+HWI-EAS443:3:62:428:602#0/1
aaaaaaaa_aaaa_aSba`a^__`W]___W`^^^^ZXW
@HWI-EAS443:3:62:68:1065#0/1
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+HWI-EAS443:3:62:68:1065#0/1
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+HWI-EAS443:3:62:803:1727#0/1
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+HWI-EAS443:3:62:869:1682#0/1
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@HWI-EAS443:3:62:905:1181#0/1
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+HWI-EAS443:3:62:905:1181#0/1
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+HWI-EAS443:3:63:1771:793#0/1
aaabaaaMaaa`^_]`¥[___]T_`SVY¥[Z[V]^ [V[_Y^
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a]_a`[___aaaa`a__aa__V_aa`X`^]¥`__`V^V_^
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+HWI-EAS443:3:63:459:627#0/1
`_a_ba`baba`aaZU_aba`¥_]W]]RX[Z¥^a`^¥UQ^
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+HWI-EAS443:3:63:524:991#0/1
a`a^a_baa`aaaaa`_b__a]aaaa^aaaa_a__aZ_¥
@HWI-EAS443:3:63:586:912#0/1
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+HWI-EAS443:3:63:586:912#0/1
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+HWI-EAS443:3:63:591:1239#0/1
¥^abba¥^_¥W_bbb^¥a`_aa]abba]Y^_`_`^abaY`
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+HWI-EAS443:3:63:824:312#0/1
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+HWI-EAS443:3:63:848:283#0/1
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+HWI-EAS443:3:64:1161:887#0/1
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+HWI-EAS443:3:64:1295:1762#0/1
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+HWI-EAS443:3:64:1565:267#0/1
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+HWI-EAS443:3:64:1604:1519#0/1
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+HWI-EAS443:3:64:1740:506#0/1
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@HWI-EAS443:3:64:324:1529#0/1
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+HWI-EAS443:3:64:324:1529#0/1
V[_TOT`bbbbbbaba`]a_URY````_J¥_```U_¥X]W¥W
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+HWI-EAS443:3:64:521:1783#0/1
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+HWI-EAS443:3:64:874:1751#0/1
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@HWI-EAS443:3:65:1373:948#0/1
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+HWI-EAS443:3:65:1373:948#0/1
`¥`_aa¥]Zaa___[]^a_aZ^_[^_a[L¥¥¥]V]^a¥_
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+HWI-EAS443:3:65:1541:933#0/1
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@HWI-EAS443:3:65:170:1390#0/1
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+HWI-EAS443:3:65:170:1390#0/1
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+HWI-EAS443:3:65:504:32#0/1
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Y_`_ab^bbbaZZ_X]aa`^aa`YJYQ]¥aa`a_a`_`a
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aa_aa^^^a_¥^a¥a]baaaaaaaaa[Z^a__^Z`^]S]`
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_a__ba_Y¥`¥abba]_`[W[]^aaba[J^a```a````Z`
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+HWI-EAS443:3:70:1031:125#0/1
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_¥^^`Q_bb`]aa_^bb¥`UN]^b`]Vbaa`^`^N]]]]]0
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a`aa`_`aba``a_a`_]_____`__a^``Ya````__[[
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`_]_bb_¥`b_``aa_¥`aa`_]¥]``aa^```a`_`aa
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+HWI-EAS443:3:76:1175:106#0/1
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+HWI-EAS443:3:76:1419:969#0/1
a_^RZaaaaY[_a`^`]__[_a_V]_W][RSSV_SHTWLW
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+HWI-EAS443:3:76:180:1486#0/1
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+HWI-EAS443:3:76:202:160#0/1
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a_YY^a_XM`a]^ [¥WNV]VXTXZ__^_]VPPPXW[BBB
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+HWI-EAS443:3:76:593:1984#0/1
aaa]_aa`aa`Vaa`_a_a¥aaa_XY[[_`^a_^____T

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+HWI-EAS443:3:76:690:1559#0/1
_`^R_bb[^_]Y¥Zaaa`Za^]a]b]V_[_^Z^G`]S
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+HWI-EAS443:3:76:970:1714#0/1
a^[Q_^_Y`a¥a`a___VU^M^_¥__¥]^Z]¥^[_NTW
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+HWI-EAS443:3:77:1097:1266#0/1
]W`aaaab`aaaaaaaa[_aaaaa_a`a```aa`aa¥a
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a`aaa_]___aQa^Ua_aaa[^`_a`_]____Z¥^¥S¥
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+HWI-EAS443:3:77:248:723#0/1
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`b^aa`aa`aaa`a][^`aZ_]aa^[^YaS_`__^_V`Z
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+HWI-EAS443:3:77:885:1241#0/1
¥X]V_aa`a_¥baa^Y[¥aaaaaa][V__[]_NU`_aa_
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a_a¥V_UaaaaY]^`a`[]_]_`¥__T¥¥Q¥¥W]SYQU
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+HWI-EAS443:3:78:1725:742#0/1
_[¥_WXOXYHV_P_¥U_X^¥)`_`Z]_`_`XW__Y[TL
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+HWI-EAS443:3:78:199:1914#0/1
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^Y¥a]baa`¥¥`a_aa__a_a]a`aa_]a^]Z]a_aXZ`
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¥U_X_ba]aZ`]a_`_a`¥][aaaa_V]``[``_aRX[[[

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@HWI-EAS443:3:79:1048:36#0/1
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+HWI-EAS443:3:79:1048:36#0/1
aaa_]S_aaS]S]Y[^ZYUU[]Z_^`_]_Y_`QX¥]^]_R
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+HWI-EAS443:3:79:21:723#0/1
aabaaaaH]¥`aa_____`[a_^Y^a___^_]a^`^`U
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+HWI-EAS443:3:79:297:634#0/1
aab`aa[^`R¥`_`__][J][P_SSZ``¥P[_`X__]a_^R
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+HWI-EAS443:3:79:596:1929#0/1
^ba^a`^a¥abbbW_ZaZaS]]_XZ]aYZPY^a``[a`a
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aa¥ba[bb`abbab`aaaa_aa`_aa`^aaaa`aa]_`
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a`b_]_b_a_]`^`a^aZa^_ZZW]___`YY¥_R^X]]
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+HWI-EAS443:3:7:611:93#0/1
ab¥a`[]a`_`Y]_V[_^YT¥RPUU`NUUV¥S^URUPRYU
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+HWI-EAS443:3:7:62:1309#0/1
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_[_a[]``aaa_aW¥a]_a¥[a_`a_]_a`_____`Va[[^
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+HWI-EAS443:3:80:932:1481#0/1
G]`aba_`_`_^`ZS_¥abb`_`¥`a]aa^a`a`b` `[a]`¥
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a_`a_a^a_`_`a^_aa_a`^]`_a^_a]V¥a`_`^^[T_
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+HWI-EAS443:3:81:1454:855#0/1
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+HWI-EAS443:3:81:1650:235#0/1
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¥N]^^[\_`\_]^[^[\_ZZY\_a]ZQ\_Z¥^W¥¥^¥UYZRRU¥U  
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+HWI-EAS443:3:97:1599:176#0/1
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aba`a__aaa¥aaaa¥_`_`aa_a__a__a`^[_^_Y__
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+HWI-EAS443:3:97:841:735#0/1
^_^X_b]¥]]^ZS_ZZ`_a^Y^`Ua_b__X_]`]b_Qa_
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+HWI-EAS443:3:98:1201:1079#0/1
a^aaaa^aaaa```a]`¥___`U`¥`^`WU__`]¥W_`
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aaaa`a^a_0[]aa_[X[U`_b_aaG`aYL[¥_`U`^
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+HWI-EAS443:3:98:289:1499#0/1
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+HWI-EAS443:3:99:234:1906#0/1
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¥a`bZ`b`__Rb__[baabb_]_S¥ab_bbaabb`_`
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+HWI-EAS443:3:13:1598:194#0/1
aaaaaaaa`a`b_]Xaa``_a^b^a_____XZ]Z^UZ]V]^
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+HWI-EAS443:3:24:685:1459#0/1
¥¥R_Z¥_`^`W[aZ]`bbb`¥¥Z^^^aa`aaaLb_S¥MYaK
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+HWI-EAS443:3:36:104:1536#0/1
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+HWI-EAS443:3:3:1620:359#0/1
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+HWI-EAS443:3:3:608:1781#0/1
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+HWI-EAS443:3:40:126:1569#0/1
_`IaYabb_W]`bb_¥]`bYa]¥a]_¥aY_¥`X_]¥`_Q
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+HWI-EAS443:3:56:1473:1429#0/1
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@HWI-EAS443:3:64:194:320#0/1
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+HWI-EAS443:3:64:194:320#0/1
_^ab^RX`T¥^QJDZa_TTY`V]_ZRXXWWTZY[ZRY_^]
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+HWI-EAS443:3:64:887:143#0/1
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+HWI-EAS443:3:76:158:747#0/1
a`_]_]Y__`][`^`_`^^`_bZ^_¥V]¥PT_V[V[YP[
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+HWI-EAS443:3:83:1672:1370#0/1
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+HWI-EAS443:3:90:252:1931#0/1
¥X_baa_Va`^`WL]¥Y¥`bb[Q`b`^^bbaV`][LW^`Z
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a`__Qaaa_U_¥``_aaaV^`aU`__XQa^^`_]_]`_R
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+HWI-EAS443:3:9:546:880#0/1
ab_a_a]`[W]_^`abaaaa`a_aa`a``OQ`[ZN¥Y_]_
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aaaaaaaaa``a``]aaa`aa`a_`[^X[]]a_____^
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+HWI-EAS443:3:65:1329:1543#0/1
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+HWI-EAS443:3:6:1420:313#0/1
^b_bb^bb_aX`a`]a_¥aba[_¥XYa[]]Zaa_`]ZWa_
@HWI-EAS443:3:91:496:1952#0/1
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+HWI-EAS443:3:91:496:1952#0/1
aa``aba^aaaa_a`b`b`_a_aa_X`W```_^`^_]_]
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+HWI-EAS443:3:13:1469:192#0/1
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+HWI-EAS443:3:39:1516:2009#0/1
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a`a``ab``bba`bb_^b]^`^^a`^`b`ba`Y¥`aa`aa_
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+HWI-EAS443:3:72:123:262#0/1
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@HWI-EAS443:3:73:838:1738#0/1
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+HWI-EAS443:3:73:838:1738#0/1
a_ba^ab¥ababb^aaab`aa`aaaPaa`_`^aaaZaaY_
@HWI-EAS443:3:22:1105:1146#0/1
CCTTGTGTTGTTGAACGACTTCCATTGTTTCAAGGCATGAA
+HWI-EAS443:3:22:1105:1146#0/1
¥a```U`¥bb`_]`^aa`b`_S]aab`a¥U`a`aa_bba`
@HWI-EAS443:3:28:611:265#0/1
TTCATGCCTTGAAACAATGGAAGTCGTTCAACAAACAAGG
+HWI-EAS443:3:28:611:265#0/1
abb_[``^a^^a^^]_aaa`][RX[U]WX¥^¥VYR¥^[X
@HWI-EAS443:3:45:431:1095#0/1
CCTTGTGTTGTTGAACGACTTCCATTGTTTCAAGGCATGAA
+HWI-EAS443:3:45:431:1095#0/1
[aaVbaba`R[TbXZT[¥]aa```abG`VLT¥JJRT_]_S
@HWI-EAS443:3:59:845:1242#0/1
TTCATGCCTTGAAACAATGGAAGTCGTTCAACAAACAAGG
+HWI-EAS443:3:59:845:1242#0/1
`b][Ya_¥a]a[Qa^_VZb[[]`a`RVO¥XS]SaZFDHPW[
@HWI-EAS443:3:88:1372:720#0/1
CCTTGTGTTGTTGAACGACTTCCATTGTTTCAAGGCATGAA
+HWI-EAS443:3:88:1372:720#0/1
¥b^^bbVbbba^bXbb]bb]`bb]bYbVZ_a_`a_aa]Z
@HWI-EAS443:3:100:1233:566#0/1
TTCGTATACTTTGTTGAAACTTTAGCTAGGAGCATTGCGG
+HWI-EAS443:3:100:1233:566#0/1
^bb`U_abV`aab_`^]`^QaaaY[NZ_]aZXU]`]X_Yb
@HWI-EAS443:3:11:439:417#0/1
CATGCCTTGAAACAATGGAAGTCGTTCAACAAACAAGGGT
+HWI-EAS443:3:11:439:417#0/1
a¥a`^[aa]`^b_baaaaaaaaLWYG[QZYNS_^HP]_[aG
@HWI-EAS443:3:12:1570:1593#0/1
GTATACTTTGTTGAAACTTTAGCTAGGAGCATTGCGAAA
+HWI-EAS443:3:12:1570:1593#0/1
^DXVYUXYZYX`aY^U_`_]`_Y_N¥a[[Y]O[]][Y_[BB
@HWI-EAS443:3:12:604:1540#0/1
CGTATACTTTGTTGAAACTTTAGCTAGGAGCATTGCGAA
+HWI-EAS443:3:12:604:1540#0/1
aa`b`aba`a_abbbaaaa`baa`a`ba``aa``a_aa_
@HWI-EAS443:3:13:1434:317#0/1
CCCTTGTGTTGTTGAACGACTTCCATTGTTTCAAGGCATGA

+HWI-EAS443:3:13:1434:317#0/1
`baba` `aaa_b`]a_aW_`a^_Xa]^¥Q`S[S`_M^^^
@HWI-EAS443:3:13:879:383#0/1
CATGCCTTGAAACAATGGAAGTCGTTCAACAAACAAGGGT
+HWI-EAS443:3:13:879:383#0/1
abbaabaabbbbaabaab`a__b_a`aa_aaaYa`_aaU
@HWI-EAS443:3:23:1116:226#0/1
ATACTTTGTTGAACTTTAGCTAGGAGCATTGCGAAAAG
+HWI-EAS443:3:23:1116:226#0/1
abbabaababaaaa_abaaaYaa_a^a_a`a`aYa]_]^[^
@HWI-EAS443:3:28:1408:142#0/1
CACCTTGTTTGTGAACGACTTCCATTGTTCAAGGCAT
+HWI-EAS443:3:28:1408:142#0/1
¥`a__`aZ`_ba` ``VYa¥RY`[_Y]__Z]a]aa]¥H¥X
@HWI-EAS443:3:32:680:822#0/1
CTTTTCGCAAATGCTCCTAGCTAAAGTTTCAACAAAGTAT
+HWI-EAS443:3:32:680:822#0/1
aa`bb_bbb` `[aba`bb_b`a` `[b_aa¥a`aa_`^Taa
@HWI-EAS443:3:44:861:1606#0/1
CGTATACTTTGTTGAACTTTAGCTAGGAGCATTGCGAA
+HWI-EAS443:3:44:861:1606#0/1
a^V_^`]aaa]_aa` `^¥`_`a_Y^`][W[¥_] ^ZX]ZZ
@HWI-EAS443:3:44:953:969#0/1
CATGCCTTGAAACAATGGAAGTCGTTCAACAAACAAGGGT
+HWI-EAS443:3:44:953:969#0/1
aababbbbaabbbbaabaa_`a[a_¥`Taaa^a`_aaT
@HWI-EAS443:3:48:475:267#0/1
CGCAAATGCTCCTAGCTAAAGTTTCAACAAAGTATACGAA
+HWI-EAS443:3:48:475:267#0/1
`baabbbbaa`abbbaba`ab_abaaa`aaabWaab`aa`
@HWI-EAS443:3:57:1224:86#0/1
CATGCCTTGAAACAATGGAAGTCGTTCAACAAACAAGGGT
+HWI-EAS443:3:57:1224:86#0/1
aba` `abbbbbb`babbbba`¥` `X_V]^L[a`M_`_a`0
@HWI-EAS443:3:57:345:1571#0/1
CGTATACTTTGTTGAACTTTAGCTAGGAGCATTGCGAA
+HWI-EAS443:3:57:345:1571#0/1
aaYaa` `Y^ab_a_Ua`_a`aY^W^`_`Y_X^`S_PSaU^
@HWI-EAS443:3:61:1507:265#0/1
TTCGTATACTTTGTTGAACTTTAGCTAGGAGCATTGCG
+HWI-EAS443:3:61:1507:265#0/1
aaab`aaa[`aaa_aa`Ya_a` `]a`a_a_]aU¥^]Z]X]
@HWI-EAS443:3:62:756:1224#0/1
TATACTTTGTTGAACTTTAGCTAGGAGCATTGCGAAAA
+HWI-EAS443:3:62:756:1224#0/1
aaaaaaaaaabaaaaaaaaa`ab]X]`aa`_a^`_`^^`W
@HWI-EAS443:3:64:506:1655#0/1
CACCTTGTTTGTGAACGACTTCCATTGTTTCAAGGCAT
+HWI-EAS443:3:64:506:1655#0/1
a_^aaa_`aa`a_`__a[[^`_a`_`[aY¥Y^^a`[U¥]^V

@HWI-EAS443:3:68:582:540#0/1
CCCTTGTTTGTGAACGACTTCCATTGTTTCAAGGCATGA
+HWI-EAS443:3:68:582:540#0/1
abbaabaabbabaaaa`aaaaabab`_`a_Waaa`a]
@HWI-EAS443:3:70:1665:1879#0/1
CGTATACTTTGTTGAACTTTAGCTAGGAGCATTGCGAA
+HWI-EAS443:3:70:1665:1879#0/1
abaaab`Waa_abaaa_bbaaaaaa¥_a`aaa¥^`_Yaa[
@HWI-EAS443:3:76:1565:348#0/1
CATGCCTTGAAACAATGGAAGTCGTTCAACAAACAAGGGT
+HWI-EAS443:3:76:1565:348#0/1
¥b``_bbababbLaabbbbb]^RaWW¥_`I`a[``a_]aU
@HWI-EAS443:3:92:1166:348#0/1
CATGCCTTGAAACAATGGAAGTCGTTCAACAAACAAGGGT
+HWI-EAS443:3:92:1166:348#0/1
aaba_aaababbaababbabY_a_aV`_M_aaY`a`a`W
@HWI-EAS443:3:95:270:252#0/1
CCCTTGTTTGTGAACGACTTCCATTGTTTCAAGGCATGA
+HWI-EAS443:3:95:270:252#0/1
abbaabaa_baaaaaaa_aaaaaab``a``a__`_[^
@HWI-EAS443:3:86:1181:183#0/1
GAAAAGAAGGCCAAACTGGCAAATGTTGTGAGAAAGGTGA
+HWI-EAS443:3:86:1181:183#0/1
a_``aa_____¥¥```Ya_^WY¥¥a`]```]]_]Z]GU^¥
@HWI-EAS443:3:88:1590:1713#0/1
AAAATTCCAGTGCAAATGCCATAAGCACACATTCCCTT
+HWI-EAS443:3:88:1590:1713#0/1
ab_b``_a_LLTGba]baaS``abS¥M¥GWQ]a^¥XY`_a
@HWI-EAS443:3:96:523:507#0/1
ATGGAAGAAGGCCAAACTGGCAAATGTTGTGAGAAAGAT
+HWI-EAS443:3:96:523:507#0/1
`b^H_]`^¥I[¥YY^b`ba[`^U^[__]X_bX`^aZ`X____
@HWI-EAS443:3:10:1262:1226#0/1
CATCTTCTCACAACATTTGCGAGTTTGGCCTTCTTTTCA
+HWI-EAS443:3:10:1262:1226#0/1
``a_b]bb¥V]]_¥P_[`[_`R][N[a`_]Qa^Pa[X^F¥
@HWI-EAS443:3:1:811:14#0/1
GAAAAGAAGGCCAAACTGGGAAATGTTGTGAGAAAGATGA
+HWI-EAS443:3:1:811:14#0/1
aYZN]^]_^YR¥]VGTV_YGYXS]^ZS^X^WZXWVBBBBB
@HWI-EAS443:3:45:1439:1142#0/1
GAAAAGAAGGCCAAACTGGCAAATGTTGTGAGCAAGATGA
+HWI-EAS443:3:45:1439:1142#0/1
aaa``b_a_a``a``_aaa[^^_aa_aa_a_abLWYV[¥¥
@HWI-EAS443:3:49:864:1441#0/1
CTTGTGAATTAGTTATCATCTTCTCACAACATTTGCCAG
+HWI-EAS443:3:49:864:1441#0/1
abba`bbabbbabbbbabbbbab`babbabbabb`ba
@HWI-EAS443:3:67:528:973#0/1
GGCCAAACTGGCAAATGTTGTGAGAAAGATGATGACTTTG

+HWI-EAS443:3:67:528:973#0/1
`bbbb_L`_W`b`)_`__aa_abaa_T]a¥` `` `U^a` [[
@HWI-EAS443:3:89:250:1124#0/1
GAAAAGAAGGCCAAACTGGCAAATGTTGTGAGAAAGAGAG
+HWI-EAS443:3:89:250:1124#0/1
`ab` `aab][aaaaaaaa` `aa` ab^aaa[a` a` a_a
@HWI-EAS443:3:35:1161:445#0/1
TTCATCTTTCTCACAACATTTGCCAGTTTGGCCTTCTTTT
+HWI-EAS443:3:35:1161:445#0/1
aaaabbaab` aaaGaaaa` __aU___^` aa` a_aaaa___
@HWI-EAS443:3:100:539:570#0/1
ATGAAAAGAAGGCCAAACTGGCAAATGTTGTGAGAAAGAT
+HWI-EAS443:3:100:539:570#0/1
`^bba` aaaaa[_Ya` _IaaaYZN]_a¥aa^a` a^` ^` _a
@HWI-EAS443:3:11:1183:1793#0/1
GAAAAGAAGGCCAAACTGGCAAATGTTGTGAGAAAGATGA
+HWI-EAS443:3:11:1183:1793#0/1
abb^^` __X__` abaaaa¥aaaa^[a_U[_a__` aa[aa
@HWI-EAS443:3:11:316:258#0/1
TGTGAATTAGTCATCATCTTTCTCACAACATTTGCCAGTT
+HWI-EAS443:3:11:316:258#0/1
aa` b__aa^a` aaa` aaaaa` _aa` _` a` ^` ^a` ^Z_Z^
@HWI-EAS443:3:16:1630:699#0/1
CTTGTGAATTAGTCATCATCTTTCTCACAACATTTGCCAG
+HWI-EAS443:3:16:1630:699#0/1
_a_abbabbbba` bbbbbbabbababb_abaabbb_¥ab
@HWI-EAS443:3:20:648:1861#0/1
TGAAAAGAAGGCCAAACTGGCAAATGTTGTGAGAAAGATG
+HWI-EAS443:3:20:648:1861#0/1
`b_abb` ` [[]` ababaWaaba_b` a_a^_aaa_a_` a_Z
@HWI-EAS443:3:21:1198:1166#0/1
AAAGAAGGCCAAACTGGCAAATGTTGTGAGAAAGATGATG
+HWI-EAS443:3:21:1198:1166#0/1
`[¥^__T` a_a¥]Xaa` `^¥` a`]__¥`]_^_W^^^_X^^
@HWI-EAS443:3:22:1596:1555#0/1
AAAAGAAGGCCAAACTGGCAAATGTTGTGAGAAAGATGAT
+HWI-EAS443:3:22:1596:1555#0/1
`_aa` aaaabababaaab[a_aaa]` a[a^a___b_` b` a
@HWI-EAS443:3:22:434:1633#0/1
GAAAAGAAGGCCAAACTGGCAAATGTTGTGAGAAAGATGA
+HWI-EAS443:3:22:434:1633#0/1
]b]_R__b` Ya` abb[[[(` _Z^b]_b¥)`]^^` ¥^` a¥a
@HWI-EAS443:3:22:83:1474#0/1
GAAAAGAAGGCCAAACTGGCAAATGTTGTGAGAAAGATGA
+HWI-EAS443:3:22:83:1474#0/1
_XSaZ0__OTYa]_X` Q[R]_VSSV` _Q[_PSLGXN[TX
@HWI-EAS443:3:23:1565:1097#0/1
TGTGAATTAGTCATCATCTTTCTCACAACATTTGCCAGTT
+HWI-EAS443:3:23:1565:1097#0/1
abZ^Y` `aY_OS` bZ_b^_b` _a¥^^` _^` `` ^^` _¥` __` Y_

@HWI-EAS443:3:25:826:1877#0/1
TTGTGAATTAGTCATCATCTTTCTCACAACTTTGCCAGT
+HWI-EAS443:3:25:826:1877#0/1
aaa_a`aaa]_]a`a^abaaa_a^b`_`a`a_X^____^Z
@HWI-EAS443:3:27:1243:1135#0/1
CATCTTTCTCACAACTTTGCCAGTTTGGCCTTCTTTTCA
+HWI-EAS443:3:27:1243:1135#0/1
^Ta^Ubbba]_ab`ab_a¥bZVQ[URaa[Y[aaaaaa`_a
@HWI-EAS443:3:28:285:931#0/1
GTGAATTAGTCATCATCTTTCTCACAACTTTGCCAGTTT
+HWI-EAS443:3:28:285:931#0/1
Y^`XXV_ZZUZ¥Y_ZL`a]^Y^[_aa]_`ZTVS][`_X`¥
@HWI-EAS443:3:29:1046:214#0/1
CTTGTGAATTAGTCATCATCTTTCTCACAACTTTGCCAG
+HWI-EAS443:3:29:1046:214#0/1
abb`abbababbaa^aZ__Y```Yaaa_aaaaaaab¥W]a
@HWI-EAS443:3:2:824:292#0/1
ATGAAAAGAAGGCCAAACTGGCAAATGTTGTGAGAAAGAT
+HWI-EAS443:3:2:824:292#0/1
ab`Vbaaab]ba^_a`¥^VaaU_aaab¥`]Wa_a]]Va¥_
@HWI-EAS443:3:30:1150:1537#0/1
ATGAAAAGAAGGCCAAACTGGCAAATGTTGTGAGAAAGAT
+HWI-EAS443:3:30:1150:1537#0/1
]abaa^aa`b`aaa_¥_aa]]aaaa`[_a]aaa¥[]¥`_
@HWI-EAS443:3:30:119:76#0/1
CATCATCTTTCTCACAACTTTGCCAGTTTGGCCTTCTTT
+HWI-EAS443:3:30:119:76#0/1
abaaaaaa``aaa___aaa`^`_`a_]aZ`____^`_]`^`__
@HWI-EAS443:3:31:1672:1174#0/1
AAAAGAAGGCCAAACTGGCAAATGTTGTGAGAAAGATGAT
+HWI-EAS443:3:31:1672:1174#0/1
abbaXa``abab_`ab]`aaa`a_ab^aab^`__^aa_a
@HWI-EAS443:3:31:48:1736#0/1
CATCATCTTTCTCACAACTTTGCCAGTTTGGCCTTCTTT
+HWI-EAS443:3:31:48:1736#0/1
a`Ra[`aa`aa`aaaaaa]_[¥a^VZ^__^`_`^`^`_`_]
@HWI-EAS443:3:32:397:505#0/1
ATCATCTTTCTCACAACTTTGCCAGTTTGGCCTTCTTTT
+HWI-EAS443:3:32:397:505#0/1
[aba``_aa`aaZ`aa]a__aaY`[]`V`Va[ZSSYX¥Y
@HWI-EAS443:3:33:558:468#0/1
GAAAAGAAGGCCAAACTGGCAAATGTTGTGAGAAAGATGA
+HWI-EAS443:3:33:558:468#0/1
aa`aa^]`^a^a`_a__^a`_`a`a____a^a]TMP]`^¥`^`^
@HWI-EAS443:3:36:144:705#0/1
CTGGCAAATGTTGTGAGAAAGATGATGACTAATTCACAAG
+HWI-EAS443:3:36:144:705#0/1
aab`a^aaaa_ab`a^b_aaaa_a_aaba]]`a_baaaa_
@HWI-EAS443:3:36:1549:1272#0/1
GCCAAACTGGCAAATGTTGTGAGAAAGATGATGACTAATT

+HWI-EAS443:3:36:1549:1272#0/1
` `aa`¥QQWJU¥WYZJR^¥UUT[¥L[_ROQ¥W^[]00IZNY
@HWI-EAS443:3:37:1136:1557#0/1
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+HWI-EAS443:3:37:1136:1557#0/1
abbaababbbbababbabaaaba`bbaa_` `bbaabbaa
@HWI-EAS443:3:37:1367:983#0/1
GAAAAGAAGGCCAAACTGGCAAATGTTGTGAGAAAGATGA
+HWI-EAS443:3:37:1367:983#0/1
¥`YR`bb]_U` `¥`abaa¥T_`^¥^b[aa]U^b_]Va`]a[
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+HWI-EAS443:3:37:1701:1125#0/1
aaRPWbWO^`[^[]^Z]GQXaYOYPZ¥QY¥¥YQSYW]_V
@HWI-EAS443:3:39:307:687#0/1
GAAAAGAAGGCCAAACTGGCAAATGTTGTGAGAAAGATGA
+HWI-EAS443:3:39:307:687#0/1
aa^`^`a[WQ¥__a^X_aaY`^QX]W_`^`¥PW[SY]`_X
@HWI-EAS443:3:3:1289:1586#0/1
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+HWI-EAS443:3:3:1289:1586#0/1
`aYaVX`bb`^TZSaa`ba_Y`[Z^aX`aaZ`]aS^^a__
@HWI-EAS443:3:40:535:1842#0/1
AAGAAGGCCAAACTGGCAAATGTTGTGAGAAAGATGATGA
+HWI-EAS443:3:40:535:1842#0/1
a^^_RGV`a¥¥`[YP_a`ZZWW[YWL[VJWTYZZR]^`_a
@HWI-EAS443:3:44:881:1820#0/1
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+HWI-EAS443:3:44:881:1820#0/1
aa^¥aV__^I[VUYTX[Xa_Ua`ZaZGVN]¥QV^W_UUYP
@HWI-EAS443:3:47:1701:1057#0/1
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+HWI-EAS443:3:47:1701:1057#0/1
abb_ba_aa_a_`baaa_aaa`a^`_a[Za` `^`a^]a^
@HWI-EAS443:3:49:637:1872#0/1
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+HWI-EAS443:3:49:637:1872#0/1
a^¥_baaaa^[_a_`aa`aaaa]aaa]aa^a`__a¥a`a
@HWI-EAS443:3:4:1125:209#0/1
TTGTGAATTAGTCATCATCTTTCTCACAACTTTGCCAGT
+HWI-EAS443:3:4:1125:209#0/1
`_`Ta[__XNQNX^¥V^`[aRT_¥GYMQ`V_^TX_XXT¥H
@HWI-EAS443:3:51:1285:1347#0/1
ATCATCTTTCTCACAACTTTGCCAGTTTGGCCTTCTTTT
+HWI-EAS443:3:51:1285:1347#0/1
]a¥S_¥_` `aa¥b`aab` `a`abbaaabbbbbbba
@HWI-EAS443:3:51:704:1069#0/1
GAAAAGAAGGCCAAACTGGCAAATGTTGTGAGAAAGATGA
+HWI-EAS443:3:51:704:1069#0/1
a_XTV]_[_`^]a^^¥^a_aa_]VYM]aZXZ`_XZ]^X^X[

@HWI-EAS443:3:51:859:1264#0/1
CTTGTGAATTAGTCATCATCTTTCTCACAAACATTTGCCAG
+HWI-EAS443:3:51:859:1264#0/1
abbbbaabbbaabaaababbabbbbaa[a`aaabb^ab]¥aa
@HWI-EAS443:3:52:1086:1173#0/1
TTGTGAATTAGTCATCATCTTTCTCACAAACATTTGCCAGT
+HWI-EAS443:3:52:1086:1173#0/1
a`a_`]_a`Xa^^^[_aWa__^__^[_^X`__^`]Y]_Z
@HWI-EAS443:3:54:1489:496#0/1
GAAGGCCAAACTGGCAAATGTTGTGAGAAAGATGATGACT
+HWI-EAS443:3:54:1489:496#0/1
aa_`]_]_a`^a]^Y```[_aa^``_]`^`_aa__VZ]`
@HWI-EAS443:3:54:349:314#0/1
AAAGAAGGCCAAACTGGCAAATGTTGTGAGAAAGATGATG
+HWI-EAS443:3:54:349:314#0/1
a^^`aY_`a`b_^[aa_¥baaa^V`a`b`^^¥Za_[b]]_
@HWI-EAS443:3:54:539:747#0/1
GAAAAGAAGGCCAAACTGGCAAATGTTGTGAGAAAGATGA
+HWI-EAS443:3:54:539:747#0/1
aaaaa`]^Z]a`a`aaaa_aaa`a`_a_a_a`^^`^`a^
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GAAAAGAAGGCCAAACTGGCAAATGTTGTGAGAAAGATGA
+HWI-EAS443:3:55:357:857#0/1
aa^_`aaa`^`^aaa]aaa^XV]`a]_aYa_aZ¥Y]]^a_
@HWI-EAS443:3:55:536:95#0/1
TGTGAATTAGTCATCATCTTTCTCACAAACATTTGCCAGTT
+HWI-EAS443:3:55:536:95#0/1
aa_aW`_`_ZaRZ¥aK_^Y]aa`a_a__^`_`_`_a]QLa]_
@HWI-EAS443:3:55:620:719#0/1
CTTGTGAATTAGTCATCATCTTTCTCACAAACATTTGCCAG
+HWI-EAS443:3:55:620:719#0/1
aab`Yaaabb`a`_abaabaaaaaaaaaba`baaaaa_aa
@HWI-EAS443:3:56:194:1180#0/1
GAAAAGAAGGCCAAACTGGCAAATGTTGTGAGAAAGATGA
+HWI-EAS443:3:56:194:1180#0/1
``a]aa¥aa__^a¥__^Z¥a[_][S^`Wa_^ZPTNX_a_
@HWI-EAS443:3:58:538:1158#0/1
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+HWI-EAS443:3:58:538:1158#0/1
_bb`ab¥¥bb_bb_aaba`ab_baabab`baaaWbabaZ^
@HWI-EAS443:3:5:262:743#0/1
CATCATCTTTCTCACAAACATTTGCCAGTTTGGCCTTCTTT
+HWI-EAS443:3:5:262:743#0/1
abbabbabaaaaaa`baaa`aaa```b`aaa_``aa^a`a
@HWI-EAS443:3:60:1270:77#0/1
ATGAAAAGAAGGCCAAACTGGCAAATGTTGTGAGAAAGAT
+HWI-EAS443:3:60:1270:77#0/1
abbaaaaaaaaaa]aa__aba`a__ab^`b^a^a]^`^a_^
@HWI-EAS443:3:61:1324:108#0/1
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+HWI-EAS443:3:61:1324:108#0/1
abbbbabbabaaaa`aaaabbaaaababaUaa^aa`^
@HWI-EAS443:3:61:169:409#0/1
AAGAAGGCCAAACTGGCAAATGTTGTGAGAAAGATGATGA
+HWI-EAS443:3:61:169:409#0/1
^^`_Y__a^_Y`Z_aba`X``N_¥X`WYT¥]Y¥]]WV]_
@HWI-EAS443:3:62:987:1568#0/1
AGTCATCATCTTTCTCACAACATTTGCCAGTTTGGCCTTC
+HWI-EAS443:3:62:987:1568#0/1
aaaabbaabbbbabbbbbbbbab`babababbb_^abbb
@HWI-EAS443:3:64:352:949#0/1
AAAAGAAGGCCAAACTGGCAAATGTTGTGAGAAAGATGAT
+HWI-EAS443:3:64:352:949#0/1
aaaaa]S¥]aa^a^`a_``aaa``_]_a^aZ[[¥]``^_^`
@HWI-EAS443:3:65:1158:1786#0/1
ATGAAAAGAAGGCCAAACTGGCAAATGTTGTGAGAAAGAT
+HWI-EAS443:3:65:1158:1786#0/1
abaaaabaabaaaaabaaa`_baaaa_aa^aa__a`a__
@HWI-EAS443:3:66:865:808#0/1
GAAAAGAAGGCCAAACTGGCAAATGTTGTGAGAAAGATGA
+HWI-EAS443:3:66:865:808#0/1
aa]U]¥Z¥^X`]YS_aa``¥W]``]Yaa¥¥¥¥[¥`^__]`
@HWI-EAS443:3:69:1720:893#0/1
AAAAGAAGGCCAAACTGGCAAATGTTGTGAGAAAGATGAT
+HWI-EAS443:3:69:1720:893#0/1
]`^`^^UHS_a`b_Z_]^YaaYJQPVNG`ZOZYPHX^GWY
@HWI-EAS443:3:6:1613:1445#0/1
AAAGAAGGCCAAACTGGCAAATGTTGTGAGAAAGATGATG
+HWI-EAS443:3:6:1613:1445#0/1
aaTbb`ba^VYa_]^aZF]___`¥W^]a_^]`]aXX^^_B
@HWI-EAS443:3:70:1377:664#0/1
GAAAAGAAGGCCAAACTGGCAAATGTTGTGAGAAAGATGA
+HWI-EAS443:3:70:1377:664#0/1
T^_a^Vbb``bbbb¥ab_abbbZ¥_baaXJbaa`baab`
@HWI-EAS443:3:70:582:1889#0/1
CATCTTTCTCACAACATTTGCCAGTTTGGCCTTCTTTTCA
+HWI-EAS443:3:70:582:1889#0/1
SK¥bVaaaVbb_aaa[a^Yabaabbab`_aaa[aaabaab
@HWI-EAS443:3:71:676:1730#0/1
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+HWI-EAS443:3:71:676:1730#0/1
^bbba`b``baaababbbb`bbbabbba``bbaaa^aaaa
@HWI-EAS443:3:72:55:519#0/1
GCCAAACTGGCAAATGTTGTGAGAAAGATGATGACTAATT
+HWI-EAS443:3:72:55:519#0/1
V¥X]Z¥W[[YW[^TN_P[VWX][¥QXWIWZY¥_¥[TW
@HWI-EAS443:3:74:1274:167#0/1
AAGAAGGCCAAACTGGCAAATGTTGTGAGAAAGATGATGA
+HWI-EAS443:3:74:1274:167#0/1
abababa`_bba^bba_aaaab`ab`b`_a`_aaaa__aa

@HWI-EAS443:3:75:27:264#0/1
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+HWI-EAS443:3:75:27:264#0/1
Y_YUPLYa]RN[a`ON_a]`b]]Z`aZaaRR[J¥[^[]^
@HWI-EAS443:3:75:672:97#0/1
GAAAAGAAGGCCAAACTGGCAAATGTTGTGAGAAAGATGA
+HWI-EAS443:3:75:672:97#0/1
[_XT¥`]QXZU¥][[¥_ZWXY^`0`]L]PLPXS_ZQYX
@HWI-EAS443:3:76:1019:1393#0/1
ATGAAAAGAAGGCCAAACTGGCAAATGTTGTGAGAAAGAT
+HWI-EAS443:3:76:1019:1393#0/1
a`]a¥^baab¥¥[`aab^aa`aa`a`aZaaY`____aa_^_
@HWI-EAS443:3:76:493:875#0/1
GAAAAGAAGGCCAAACTGGCAAATGTTGTGAGAAAGATGA
+HWI-EAS443:3:76:493:875#0/1
aaaaa_^a`aa^`^`__`_aa`_^`[_¥]a^`^]X_[^]_
@HWI-EAS443:3:77:1431:1389#0/1
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+HWI-EAS443:3:77:1431:1389#0/1
aa``aaaZ`a^]¥_aaa_aaa[aaaa`]abXa_^`^a`a
@HWI-EAS443:3:77:638:1078#0/1
CTTGTGAATTAGTCATCATCTTTCTCACAACTTTGCCAG
+HWI-EAS443:3:77:638:1078#0/1
_V¥^_a][ZZ[[T^]]]____^_Y_SWU¥YTY^]W]_^]¥Z
@HWI-EAS443:3:78:905:1281#0/1
AAAAGAAGGCCAAACTGGCAAATGTTGTGAGAAAGATGAT
+HWI-EAS443:3:78:905:1281#0/1
M]aaYR]^[_aaa^aaaU``]`a]__aa¥Sa_a____
@HWI-EAS443:3:79:1236:1465#0/1
GAAAAGAAGGCCAAACTGGCAAATGTTGTGAGAAAGATGA
+HWI-EAS443:3:79:1236:1465#0/1
a[aaa]a_XZ]]]_a`a¥`]a`aa_aW__Y`]Wa]_^Z^
@HWI-EAS443:3:7:1575:878#0/1
ATGAAAAGAAGGCCAAACTGGCAAATGTTGTGAGAAAGAT
+HWI-EAS443:3:7:1575:878#0/1
aa`]aaaba`aaaY`_[_aaa^a`^aa^aa^a_a_W`aa`
@HWI-EAS443:3:81:284:1539#0/1
AGAAGGCCAAACTGGCAAATGTTGTGAGAAAGATGATGAC
+HWI-EAS443:3:81:284:1539#0/1
`V_]a¥Y¥aY^]ba`a`R¥¥[Z_I`_W_P¥_W^`^`_Y
@HWI-EAS443:3:83:1209:972#0/1
GTGAATTAGTCATCATCTTTCTCACAACTTTGCCAGTTT
+HWI-EAS443:3:83:1209:972#0/1
aR_W¥`a[aTa`X`][a`_]`_^`____]YV_S[¥_S_^
@HWI-EAS443:3:84:812:1886#0/1
ATCATCTTTCTCACAACTTTGCCAGTTTGGCCTTCTTTT
+HWI-EAS443:3:84:812:1886#0/1
aaa^aa¥U¥]_Yaa`a__`]_^a__V_a``]a`Ya_^]
@HWI-EAS443:3:84:916:587#0/1
AATTAGTCATCATCTTTCTCACAACTTTGCCAGTTTGGC

+HWI-EAS443:3:84:916:587#0/1
aabb_a^abb`bbabbb_bababaabbaabaaaa_abba`
@HWI-EAS443:3:89:927:873#0/1
TGTGAATTAGTCATCATCTTTCTCACAACATTTGCCAGTT
+HWI-EAS443:3:89:927:873#0/1
`aababbba`_TT^aa`baa`]`_`_aa_a```aZV¥a_a
@HWI-EAS443:3:90:1391:690#0/1
GAAAAGAAGGCCAAACTGGCAAATGTTGTGAGAAAGATGA
+HWI-EAS443:3:90:1391:690#0/1
aaaaaaaaa]R]aaaaa`_aa_aa]`a]a_a_RU`^`a^
@HWI-EAS443:3:90:297:711#0/1
ATGAAAAGAAGGCCAAACTGGCAAATGTTGTGAGAAAGAT
+HWI-EAS443:3:90:297:711#0/1
¥bb^¥`bb^[[bbba^TS`YSb[S`abUbbaa¥aY`a_b`
@HWI-EAS443:3:93:76:1514#0/1
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+HWI-EAS443:3:93:76:1514#0/1
a`aZSaXT^`ba_Uab]Zb`a`baaaaX¥IaTa`¥P`]HX
@HWI-EAS443:3:94:125:604#0/1
GTGAATTAGTCATCATCTTTCTCACAACATTTGCCAGTTT
+HWI-EAS443:3:94:125:604#0/1
a[]^`a`X[]``_`^Z`_a`^`_`_Z^`_Z^^^]]]^Z^^
@HWI-EAS443:3:94:1331:456#0/1
CATCTTTCTCACAACATTTGCCAGTTTGGCCTTCTTTTCA
+HWI-EAS443:3:94:1331:456#0/1
aababbbabaaa`aaaaaaaa`ab_aaab`_`ab_aaaa`_`
@HWI-EAS443:3:95:1450:1435#0/1
AAGAAGGCCAAACTGGCAAATGTTGTGAGAAAGATGATGA
+HWI-EAS443:3:95:1450:1435#0/1
abbbbaa`_`bba^bba`_`aabaa]a`aaaa^a`aaa`aaa
@HWI-EAS443:3:97:876:55#0/1
GAAAAGAAGGCCAAACTGGCAAATGTTGTGAGAAAGATGA
+HWI-EAS443:3:97:876:55#0/1
a_____a`_`_¥^`_]_W`a`Z^^`_a]XaZ`Z_Z]Z_Z]^Z
@HWI-EAS443:3:17:1767:1486#0/1
TGCTCATGTTGATTCCCACCAACTTGCAGGTCCTGTAGAA
+HWI-EAS443:3:17:1767:1486#0/1
a_aaZL`aU````]TJY[aXSR[YZ¥_¥X[ZN¥STSNN¥YW
@HWI-EAS443:3:28:681:701#0/1
ATAGGACTTCTTTTTGCTCATGTTGATTCCCACCAACTTG
+HWI-EAS443:3:28:681:701#0/1
a`a``[aaa`_`aaa`_`a_¥`_`_`[_`_`^`_`^^`_]`[____^^`
@HWI-EAS443:3:21:1612:440#0/1
TGTTGATTCCCCTAACTTGCAGGTCCTGTAGAGTATGTC
+HWI-EAS443:3:21:1612:440#0/1
QVVba_ZS^abZVXQYW^`_ZZaaPSBBBBBBBBBBBBBB
@HWI-EAS443:3:74:1626:32#0/1
AGTAAACAGACCGTTGGAATTTCTAGCATGGTGGAGGCC
+HWI-EAS443:3:74:1626:32#0/1
T^_aab`_]`_`T¥_ZXV^W]]a]XHQ^YR^_]Va^VaBBB

@HWI-EAS443:3:97:1466:1785#0/1
CAACGGCATCATATTCCATGCTTTTGGCTGGACGAAGGGG
+HWI-EAS443:3:97:1466:1785#0/1
aV`UabZ¥aaPU[Xa`G^SX[VZa`UBBBBBBBBBBBBBB
@HWI-EAS443:3:1:522:1576#0/1
GGGGACAACACTAAGTGAATGAAAATCAAANTCCTGGAA
+HWI-EAS443:3:1:522:1576#0/1
`ba`XJZb[bJaa`bX`a`babbbbaaaaYDF¥]VI`aB
@HWI-EAS443:3:8:164:1807#0/1
AAATAAGACAGGGACATTTGAATCACAACCTTTTTTATC
+HWI-EAS443:3:8:164:1807#0/1
`a`aX`]a`a^`_aa^¥aXa`_`_`_aa[V¥Z^ZU^]]
@HWI-EAS443:3:38:1031:1188#0/1
GGGGACAACACGAAGTGAATGAAAATCAANATCCTCGAA
+HWI-EAS443:3:38:1031:1188#0/1
aa¥XXZ`a_aZ[RT[Xa`a`_a^][YX^_QDZZ_`¥ZWW
@HWI-EAS443:3:47:1247:277#0/1
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+HWI-EAS443:3:47:1247:277#0/1
]ZZ_aZ`V]^D]a_]ab^UV^a_a^_a]ZPX__aUX[PNB
@HWI-EAS443:3:68:1428:649#0/1
ATTTCTAGCATGGTGGAGGCCATGGTGCCTAGNGCCCGGA
+HWI-EAS443:3:68:1428:649#0/1
aaaa]^aabaW¥_V^Z¥Y`a^^]SSK^EVTYZDX^TY^XY
@HWI-EAS443:3:13:565:29#0/1
GGACTTCTTTTCTCATGTTGATTCCCACTAACTGCAGG
+HWI-EAS443:3:13:565:29#0/1
`a`a_a^aabb_aaaaa_abaa`_`_`_aa`_aaZ^a[
@HWI-EAS443:3:40:461:154#0/1
GAGGATTTTGATTTTCATTCCACTAGTGTGCCCCAGTG
+HWI-EAS443:3:40:461:154#0/1
`RVYX[``]X]UWWZ_¥YWQRYQVXGZTQTQY[BBBBB
@HWI-EAS443:3:94:788:1462#0/1
CTCCAGTATAAGGGAATGTGTGCTTATGGCATTGTGCGCT
+HWI-EAS443:3:94:788:1462#0/1
¥RaY`_S__aa_]_^H_^[Q^aaa`_`[Z¥]_]R][S^`_
@HWI-EAS443:3:95:488:878#0/1
TTGAATCACAAGCTTTTTTATCGCTATGGATTTGTGGCT
+HWI-EAS443:3:95:488:878#0/1
^ab]EYaSa__aa_aaab`_SXTa[a[[S``aV[_T^`
@HWI-EAS443:3:22:549:457#0/1
ACGGCATCATATTCCATGCTTTTGGCTGGACCATACAGAA
+HWI-EAS443:3:22:549:457#0/1
^XYYa`V`^[^a]Ya¥Zaabaaba]XZ`X[^`]Y`_¥a
@HWI-EAS443:3:27:1454:473#0/1
ACGGCATCATATTCCATGCTTTTGGCTGGACCATACAGAA
+HWI-EAS443:3:27:1454:473#0/1
aab`_ab[`baaa`[aab[aaaaaa[aa`XY[_`¥R^^`^
@HWI-EAS443:3:54:955:211#0/1
GGTCCAGCCAAAAGCATGGAATATGATGCCGTTGAAAGTA

+HWI-EAS443:3:54:955:211#0/1
abU_IW_V][W`¥]L]¥aYV[_^X[¥^a]S]U^BBBBBBBB
@HWI-EAS443:3:94:467:1603#0/1
TGGCTATAGTATCAGATGGAGGACCAAATTATACAATAT
+HWI-EAS443:3:94:467:1603#0/1
aa]a`aYYYYV[XY[^XWX`Xa]RVSYS`]GVVYUVNT]P[M
@HWI-EAS443:3:97:363:523#0/1
GGGGGAGTCGCCAGACTTATGATTGGACATTAACAGAAA
+HWI-EAS443:3:97:363:523#0/1
abaa`^^[_a`^_a___a]_a]__`^_U]`___]X`]^_`
@HWI-EAS443:3:12:1651:659#0/1
TTCCTGTTCCCTGTTCCATGGCTGTATGGAGGATATCCAGG
+HWI-EAS443:3:12:1651:659#0/1
aaa[aaa`^]aa`_VFRaba]a`PPU_UL`_NRGXRBBBB
@HWI-EAS443:3:48:1534:1224#0/1
GTTTCATCCTCAAGAATCCCTTTGGCTTGTGTTGTGTAT
+HWI-EAS443:3:48:1534:1224#0/1
aPV¥^L^X[^XPaYLP[]NUPW`URNVYV[BBBBBBBBBBBB
@HWI-EAS443:3:54:1211:96#0/1
TGGGTCTTCTTTTTGCTCATGTTGATTCCCACTAACTTGC
+HWI-EAS443:3:54:1211:96#0/1
`a[VXaa¥`ab___X[]¥aa^XaaZSa_^___]a_Z[^]a]
@HWI-EAS443:3:9:379:1084#0/1
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+HWI-EAS443:3:9:379:1084#0/1
a]T_[_[UUY`^[[P¥a^L^]¥UBBBBBBBBBBBBBBBBB
@HWI-EAS443:3:63:434:1699#0/1
GCGTCTTCAATGGTGGAACAGATCTTCATGANCTCAGAG
+HWI-EAS443:3:63:434:1699#0/1
_K]Saaab¥a`aXZM`¥Yaaba`__`]aa[NYD¥___Za^
@HWI-EAS443:3:16:922:985#0/1
GGAATTTCTAGCATGGTGGAGCCATGGGGTCTAGGGCCT
+HWI-EAS443:3:16:922:985#0/1
]¥XRTZ_a[WK_Q[ZZQXbQ`b[J]a¥a¥KXM[RaQ_P¥YM
@HWI-EAS443:3:1:717:323#0/1
GGGGAGTCTCGATACTGAATCTTGGTCAAAGAAATACAC
+HWI-EAS443:3:1:717:323#0/1
_baT^U^SILPMSOR]WWZYQ`SGGSS__XO¥WBBBBB
@HWI-EAS443:3:22:60:1120#0/1
ATCCTGTTCCCTGTTCCATGGCTGTATGGAGGAACTCCAGG
+HWI-EAS443:3:22:60:1120#0/1
X`abaaababaaaa_aaa``aaa¥]R_BBBBBBBBBBBBBB
@HWI-EAS443:3:64:360:1426#0/1
ACATGGTGGAGCCATGGGGTCTAGGGCCCGGATTGATGC
+HWI-EAS443:3:64:360:1426#0/1
``aUa_U_]VV¥a¥`QU¥FPKWRXP]PXVRIMXXXVMBBB
@HWI-EAS443:3:87:1141:1706#0/1
GGGGACATTTGAATTCAGAAGCTTTTTTTTATCGCTATGGA
+HWI-EAS443:3:87:1141:1706#0/1
a_VTS^^[_^¥X`VYTaH[^][^]`aa``a`QY`a¥`_Z^

@HWI-EAS443:3:93:1726:628#0/1
TTCCTGTTCCCTGTTCCATGGCTGTATGGAGGATGTCCAGT
+HWI-EAS443:3:93:1726:628#0/1
¥]`aaZX^U^_RY`[Y^aa^BBBBBBBBBBBBBBBB
@HWI-EAS443:3:97:1549:782#0/1
GGTCTGGATACTGAATCTTGGACAAAAGAAATACACCAAG
+HWI-EAS443:3:97:1549:782#0/1
ab]`aIaK`aJZXZb^a`XbbYUb¥aaaaa^R`IYWWaYW
@HWI-EAS443:3:11:1105:496#0/1
ATTTGAGGATTTTGTATTTTCATTCCACTTAGTGTTGTCCC
+HWI-EAS443:3:11:1105:496#0/1
aabababb_a`^abaaaa`aaa`___aaa`Ya^_a^Z¥¥
@HWI-EAS443:3:17:628:1802#0/1
CAGCAACATTCCGAGGATTTTGTATTTTCATTCCACTTAGTG
+HWI-EAS443:3:17:628:1802#0/1
_a¥XY`a`[WS]]PY`¥`[a_VXS`aaa`_a]`_`_W_
@HWI-EAS443:3:19:144:1260#0/1
GCACCGGCATCATATTCCATGCTTTTGGCTGGACCATGGG
+HWI-EAS443:3:19:144:1260#0/1
a`]]`NOZX0¥`]ZUW[ZWWSMT¥UXXBBBBBBBBBBBB
@HWI-EAS443:3:21:1771:809#0/1
GCGGAAAATGCCATAAGCACCATTCCTTATACTGGAG
+HWI-EAS443:3:21:1771:809#0/1
aZUDOU[U¥XTIU^WZLHRPJWS[ZUQJORVTTQVWUBB
@HWI-EAS443:3:28:1475:571#0/1
AATTTCTAGCATGGTGGAGCCATGGTGTCTAGGGCGCGG
+HWI-EAS443:3:28:1475:571#0/1
___b`^`[_T]a[[[U¥XYZ^_WQWRXWTRP_aaTELa_
@HWI-EAS443:3:30:1333:1633#0/1
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+HWI-EAS443:3:30:1333:1633#0/1
aI]TWTY`baW[_a]`^¥`_aaTU`a`a^T]aIXYP
@HWI-EAS443:3:30:915:1198#0/1
GTTGCAACGGCATCATATTCCATGCTTTTGGCTGGAGCAT
+HWI-EAS443:3:30:915:1198#0/1
a[_YP_^ab`^^Zaaab^¥]]^^][RX_[RBBBBBBBBBB
@HWI-EAS443:3:3:1765:1234#0/1
ATCTTCACATTCCTGAAGTCTGCTTAAAATGGGAGCGCTA
+HWI-EAS443:3:3:1765:1234#0/1
_aabbaa_aaaa__[_Ua`N`aVaaa_]_aa`_^aR`]^B
@HWI-EAS443:3:59:719:135#0/1
CTTCACATTCCTGAAGTCTGCTTAAAATGGGAGCTAGTGG
+HWI-EAS443:3:59:719:135#0/1
abbaab[bba`abaaaN]`baaaa_Q`aaaa]b__YV^__
@HWI-EAS443:3:60:553:986#0/1
CGGGCTTCTTTTGTCTCATGTTGATTCCCACTAACTTGCA
+HWI-EAS443:3:60:553:986#0/1
``bbbbbbbabababbbbaaaaaaaa`aaaaa]]`a
@HWI-EAS443:3:62:98:1905#0/1
GACAACACTAAGTGAATGAAAATCAAATCCTCGACTGT

+HWI-EAS443:3:62:98:1905#0/1
¥Z`¥QRYa[_V[LS¥baaaaa]a`aa`QYaS^a_WDW`Y
@HWI-EAS443:3:7:1447:1730#0/1
CTGGGGACAACACTAAGTGGAAATGAAAATCAAATCATCG
+HWI-EAS443:3:7:1447:1730#0/1
ab_^Xbb^_XN_UPUU¥S`ab__bba]Z_S_`^Z_ZH^`a
@HWI-EAS443:3:84:183:1007#0/1
CAACATGCCATAAGCACCACATTCCCTTATACTGGAGATC
+HWI-EAS443:3:84:183:1007#0/1
a]_MbaUPZ``_00Ub`[_a^X^`_aTXZL^Q_]`__VE
@HWI-EAS443:3:89:140:1610#0/1
ATCTGTTCATCCTCAAGAATCCCCTTTGGCTTGTGGTGA
+HWI-EAS443:3:89:140:1610#0/1
Y`aZ]SZZ^ba]_````]W_a]_[¥aXKW¥^ZRTWFZ^^
@HWI-EAS443:3:93:1111:945#0/1
GGGAGTCTCGATACTGAATCTTGGACAAAAGAAATAGACC
+HWI-EAS443:3:93:1111:945#0/1
`aY]]ab``_]a_b`aXa¥aa¥NL]aZ]YZ_aaSNFXXV
@HWI-EAS443:3:96:348:378#0/1
AGATTCTACAGGACCTGCAAGTTAGTGGGAATCAACTGAG
+HWI-EAS443:3:96:348:378#0/1
aaaa`a`a_a¥a``a[``aa^a`Y`a]_____^Z^_]a
@HWI-EAS443:3:9:534:1870#0/1
GAGAATTGGAGTAACAGTGATAAAGAACAACATGATAAAC
+HWI-EAS443:3:9:534:1870#0/1
aa`Obba`ba__a`a`¥K[aaaabaaa[aaGa_aaTaaby
@HWI-EAS443:3:100:1566:972#0/1
GCTGCCGGTTGATTTCTGTTAATGTCCAATAATAAGTCT
+HWI-EAS443:3:100:1566:972#0/1
aY^a`]UZR^U_]¥QZa[Wa____`YKR]^XHQ]`_[WBB
@HWI-EAS443:3:100:1662:434#0/1
GGGAATACAAGCAGGAGTGGAGAGATTCTACAGGACCTGC
+HWI-EAS443:3:100:1662:434#0/1
__aXX`_X`_aZ`_YY`Y`aTDWXY]^QWXQP_a_YLLTBB
@HWI-EAS443:3:100:1702:216#0/1
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+HWI-EAS443:3:100:1702:216#0/1
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@HWI-EAS443:3:100:1790:407#0/1
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+HWI-EAS443:3:100:1790:407#0/1
^`_OWX]VZ[b`a]b]aa`_[DS[_SX_]S¥V¥X`Y]_BB
@HWI-EAS443:3:100:444:42#0/1
GCATGGTGGAGGCCATGGTGTCTAGGGTCCGGATTGATGC
+HWI-EAS443:3:100:444:42#0/1
a¥HRa¥0_¥N¥]NVTU¥¥PVNRSTZTVBBBBBBBBBBBBB
@HWI-EAS443:3:12:57:812#0/1
GACTTATGATTGGACATTATACAGAAATCAACCGGCAGCA
+HWI-EAS443:3:12:57:812#0/1
TT[___^¥aZ`aa]___^X^a]UZ_]`_]`^`]FY^Y¥^`]B

@HWI-EAS443:3:17:1529:1193#0/1
TTATACTGGAGATCCTCCATACAGCTATGGAACAGGAACA
+HWI-EAS443:3:17:1529:1193#0/1
a``Ya[aba`U`__WX^_adWY`^PGWYX^_Z¥5]Y`OBB
@HWI-EAS443:3:17:1538:1162#0/1
GTTGGAATTTCTAGCATGGTGGAGGCCATGGGGTCTAGGG
+HWI-EAS443:3:17:1538:1162#0/1
^Rab^a^ab`aZaaV[`^__]¥^Y[UX]]_YGRUQENUSB
@HWI-EAS443:3:18:1009:906#0/1
TAGCTCCCATTTTAAGCAGACTTCAGGAATGCGAAGATTC
+HWI-EAS443:3:18:1009:906#0/1
UZa`_^ab^```aa¥J[aaZW¥`V[]_JV_VFVP^a[X_P
@HWI-EAS443:3:1:1561:1395#0/1
ATTGGAGTAACAGAGATAAAGAACAACATGATAAACAATG
+HWI-EAS443:3:1:1561:1395#0/1
¥VX`_^U`a[U¥I^R^aaU^[^¥_aTLb__`aa_a¥a_B
@HWI-EAS443:3:20:1262:1409#0/1
TTTTTTATCGCTATGGATTTGTGGCTAATTTTAGCGTGGA
+HWI-EAS443:3:20:1262:1409#0/1
`a`[_ZaX`KaQUZ]]TTPWSVOPV_¥WXVU_WFO[]W
@HWI-EAS443:3:20:364:1098#0/1
TGCCGGTTGATTTCTGTTTAATGTCCAATCATAAGACTGG
+HWI-EAS443:3:20:364:1098#0/1
]a_baM`b`Z[aXT¥a`ba[[bONZ`_babbb``Gb_NX
@HWI-EAS443:3:20:977:736#0/1
AATTTCTAGCATGGTGGAGGCCATGGGGTCTAGGGCCCGG
+HWI-EAS443:3:20:977:736#0/1
]Q^b¥V_b^Z^`^_P^^^ba_aaW^^EZX`YVUZ¥¥S^`]
@HWI-EAS443:3:21:381:927#0/1
TAAGCACCACATTCCTTATACTGGAGATCGTCCATACAG
+HWI-EAS443:3:21:381:927#0/1
^`baUZWYWT^abUOH0a`U[¥]_QaS[`ZFZ]Ma__^aa
@HWI-EAS443:3:21:847:990#0/1
ATAAGCACCACATTCCTTATACTCGAGATCCTCCATACA
+HWI-EAS443:3:21:847:990#0/1
aaa]]abaaaaa`aa`a_a`T_R]^_[_]`^_X]Y_Y_
@HWI-EAS443:3:22:800:1758#0/1
ATCAAAATCCTCGAATGTTCTGACGATGATTACATATAT
+HWI-EAS443:3:22:800:1758#0/1
^UWY_¥WDORN RV^PPS^P¥^PQLR[ZXY]ZV[¥^[ZY^P
@HWI-EAS443:3:22:916:1944#0/1
ATCAAAATCCTCGAATGTTCTGCGATTATTACATATAT
+HWI-EAS443:3:22:916:1944#0/1
`bbaa^Ya`^b]GXa¥][aaY[YVYZY[FVa`XXQ^SV`_
@HWI-EAS443:3:23:1206:1237#0/1
GACCGTTGGAATTTCTAGCATGGTGGATGCCATGGTGTC
+HWI-EAS443:3:23:1206:1237#0/1
`aQ`aZab_bb_aa]]a_RHYaa]Ga¥`G^`]ZNVXKOB
@HWI-EAS443:3:24:232:153#0/1
ATTTCTAGCACGGTGGAGGCCATGGTGTCTAGGGCCCGGA

+HWI-EAS443:3:24:232:153#0/1
` `aaaaa_aaaaZ`a`^¥`_¥U`¥F¥U`T¥^XX^¥^¥ZN
@HWI-EAS443:3:24:872:609#0/1
CTAAGTCAAGGTCGCCAGACTTATGATTGGACATTAAACA
+HWI-EAS443:3:24:872:609#0/1
a`¥]ITY]P[¥VYS`R[¥T` `]]b¥UX`]aaaY]Y¥a_a
@HWI-EAS443:3:24:945:882#0/1
GCCGGATGATTTCTGTTTAATGTCCAATCATAAGTCTGGC
+HWI-EAS443:3:24:945:882#0/1
a][`SD[S]YYY`^`VXaWVXaMV[`LJB BBBB BBBB
@HWI-EAS443:3:27:1738:1703#0/1
CGCCAGACTTATGATTGGACCTTAAACAGAAATCAACCGG
+HWI-EAS443:3:27:1738:1703#0/1
aba^RaW`^_a^[]_a[^_]G`W[^_Waa^_]`Za¥HT_^
@HWI-EAS443:3:2:1715:1191#0/1
AATCAGTGGGACAACACTAAGTGAATGAAAATCAAAT
+HWI-EAS443:3:2:1715:1191#0/1
^^a[TH_Z]_¥RS[aIS[` `]_]VU^]YZa`aa`_^aBB
@HWI-EAS443:3:2:416:2003#0/1
GAACATTCGAGGATTTTGATTTTCATTCAACTTAGTGTTG
+HWI-EAS443:3:2:416:2003#0/1
abaMa[¥VW^`aa]¥aW_a_[^^_bUa[H`Y_]bUHYSWN
@HWI-EAS443:3:2:876:1070#0/1
TTCAGGTCAGTCTGCTTAGCATTCTGCTGGTATTTGTG
+HWI-EAS443:3:2:876:1070#0/1
^ZY`^ZS`^MW^Z[aa_` `[H]aa_T_^PYaa_YZ__aZ]
@HWI-EAS443:3:30:1393:82#0/1
CAAATGCCATAAGCACCACATTCGGTTATACTGGAGATC
+HWI-EAS443:3:30:1393:82#0/1
¥ababV_bbbb[`Y`TGT_VRbY]UG[`ab¥TYbaabaYO
@HWI-EAS443:3:31:498:1181#0/1
AACATTCGAGGATTTTGATTTTCATTCCACTCAGTGTTGT
+HWI-EAS443:3:31:498:1181#0/1
]N_RXHZ[O^XOZWUJ¥VR_[]WLWR_ZOXVDTLNTPVXT
@HWI-EAS443:3:32:1191:179#0/1
GGCTCCAATCATCCGACGATTTTGCCCTCATAGTGAATGC
+HWI-EAS443:3:32:1191:179#0/1
abaaabVb`V`b_Qa_U_aaaa^UVF[a__` `bZa_a¥[Z
@HWI-EAS443:3:32:1784:1548#0/1
GCCGGTTGATTTCTGTTTAATGTCCAATCATAAGTGTGGC
+HWI-EAS443:3:32:1784:1548#0/1
aaa`_NUUWUVS]Y`R`^Y^S`Y^]]MUMW`LNVMDR¥¥T
@HWI-EAS443:3:32:941:1551#0/1
TTCTAGCATGGTGGAGGCCATGGTGTCTAGGGCGCGGATT
+HWI-EAS443:3:32:941:1551#0/1
]ab`^Wa`Ua`PaaXaa¥bR_aS^PYXKX¥Z¥VHU¥GHFT
@HWI-EAS443:3:33:1704:1028#0/1
TAAGCACCACATTCCTTATACTGGAGATCCTGCATACAG
+HWI-EAS443:3:33:1704:1028#0/1
aa^a`baaa^aa^]a0`_a`a] `]__^_VFVYFQWWZRZ]

@HWI-EAS443:3:33:363:142#0/1
CGCAACATGCCATAAGCACCACATTCCCTTATACTGGAGA
+HWI-EAS443:3:33:363:142#0/1
X_`¥^I¥UX`ab`ab^a^_]aaaa`bW_[`_]Z__XU[Z
@HWI-EAS443:3:34:1618:690#0/1
GTGTAGTTGCAACGGCATTATATTCCATGCTTTTGGCTGG
+HWI-EAS443:3:34:1618:690#0/1
Z¥_W_aaba`aa]a`__^W]`]`aa^_aaaaa^^]QMSBB
@HWI-EAS443:3:34:26:724#0/1
GTCCATGGTGTATCCTGTTCCCTGTTCCATGGCTGGATGGA
+HWI-EAS443:3:34:26:724#0/1
aaa[0^aa¥aYW`aa`a`]a``a_Z^`¥[^BBBBBBBBBB
@HWI-EAS443:3:36:1562:578#0/1
ATCCTGTTCCCTGTTCCATGGCTGTATGGAGGATTTCCAGT
+HWI-EAS443:3:36:1562:578#0/1
Q__[_W^W[¥]aZ]ZR_[__^_VMF^VX¥_[FUKYP_HSH
@HWI-EAS443:3:37:1177:251#0/1
ATTTCTAGCATGGTGGAGGCCATGGTGTGAGGGCCCGGA
+HWI-EAS443:3:37:1177:251#0/1
aabaaaaa^b]aa`^a[a`^]a_aaU^UXER`^^[U[]`U
@HWI-EAS443:3:37:1461:1491#0/1
GCCATCTATTAGAAGAGGCCTTATTTTCTGAATTTCTTC
+HWI-EAS443:3:37:1461:1491#0/1
aba`]ababaaa[_aT_a¥¥aaaaaaa__MSYaaaa`a^
@HWI-EAS443:3:37:686:240#0/1
CATGGCTGTATGGAGGATCTCCCGTATAAGGGAATGTGGT
+HWI-EAS443:3:37:686:240#0/1
aabbabb`GVQT^[W]PRXZW¥UVTFZTHF`]MQVHJT]J
@HWI-EAS443:3:38:1333:1538#0/1
ACCGTTGGAATTTCTAGCATGGTGGAGGACATGGTGTCT
+HWI-EAS443:3:38:1333:1538#0/1
a]bab[`bbba]b`]`aa]``¥¥Va_`[aGSYYMYPXTTS
@HWI-EAS443:3:38:503:1458#0/1
GTTCTTCAATGGTGAACAGATCTTCATGATGTCAGAGAA
+HWI-EAS443:3:38:503:1458#0/1
aI_`aMYV`S`]TXY_`[aVQY``_aa0^^FFRZ]Z^XVN
@HWI-EAS443:3:39:1442:1449#0/1
CTGCCGGTTGATTTCTCTTTAATGTCCAATCATAAGTCTG
+HWI-EAS443:3:39:1442:1449#0/1
aabaabb]aa`aaa`aYaaa_aaaZa]``a^^_¥V`¥[X¥
@HWI-EAS443:3:40:1428:259#0/1
TGGCTGTATGGAGGATCTCCAGGATAAGGGAATGTGGTGC
+HWI-EAS443:3:40:1428:259#0/1
_`Za^aa^a_Y^b_UXZ_a^X¥JT¥LIYZaS`QMT]XPVH
@HWI-EAS443:3:40:1642:969#0/1
GCCGGTTGATTTCTGTTAATGTCCACTCATAAGTCTGGC
+HWI-EAS443:3:40:1642:969#0/1
a_^`aWa]Y¥a`Z``¥aa[```YYVLFXa_^^YVS]^XXT
@HWI-EAS443:3:40:585:1427#0/1
ATGGAGGAACAGATCTTCATGATCTCAGAGAACTCTTCTT

+HWI-EAS443:3:40:585:1427#0/1
Z[RFUT^`U¥U_Z[abb_ab`^`RHXH^T`]b_¥Y`a
@HWI-EAS443:3:43:131:293#0/1
CTTATTTATCTAGGACTTCTTTTTGCTCATGTTGATTCCC
+HWI-EAS443:3:43:131:293#0/1
abaabbbbbbab_babbbbbbbbbbbbabbbabababa`
@HWI-EAS443:3:43:230:337#0/1
AACTACCTCAAGGTCGCCAGACTTATGATTGGACATTA
+HWI-EAS443:3:43:230:337#0/1
_a_N¥H]]ab_ZP`TR¥]]MYa]_^]WYWZDRJRX¥`_Y
@HWI-EAS443:3:43:670:824#0/1
TGGAATTTCTAGCATGGTGGAGGCCATGGGGTCTAGGGCC
+HWI-EAS443:3:43:670:824#0/1
abbaa_[__aaa]a^a]QSUOV^¥¥BBBBBBBBBBBBBB
@HWI-EAS443:3:44:1605:1723#0/1
GATAAAAAAGCCTGTGAATTCAAATGCCCTGTCTTATT
+HWI-EAS443:3:44:1605:1723#0/1
aaaaaaaaa_a]_^Zaaa```a___HVQX_`¥Sa__a^
@HWI-EAS443:3:45:1044:1985#0/1
CACTAAGCGGAATGAAAATCAAATCCTCGAATGTTCCCTG
+HWI-EAS443:3:45:1044:1985#0/1
aaab_a^Q__aabbbbbbb^bbab_¥_a[ba_aa¥__^`b
@HWI-EAS443:3:45:502:511#0/1
GGAGATCCTCCATACAGCCATGGAACAGGAACAGGCTACA
+HWI-EAS443:3:45:502:511#0/1
]W¥_¥aXX^_W[]_¥b]Y¥bbba_SXabaaaabZOT^T[
@HWI-EAS443:3:46:684:1397#0/1
TTGCTGCCGTTGATTTCTGTTAATGGCCAATCATAAGT
+HWI-EAS443:3:46:684:1397#0/1
`ab]WWa`ZYJVR[NX]ZSJM_VH]OIL]ZTNUSBBBBBB
@HWI-EAS443:3:49:1121:462#0/1
TGCAACGGCATCATATCCATGCTTTTTGGCTGGACGATGG
+HWI-EAS443:3:49:1121:462#0/1
_bbabab___^^ba_abb``aa`bb]a^_Z_aaZHHRQ]`
@HWI-EAS443:3:49:148:983#0/1
GGTGTATCCTGTTCCCTGTTCCATGGCTGGATGGAGGATCT
+HWI-EAS443:3:49:148:983#0/1
abZ`_aaa`baaa`_aaa`_`_a`a^_a^GUYJURV[MUL¥
@HWI-EAS443:3:4:1525:58#0/1
CAAAGGGATTACGGGATTACAAAGTCTTCCCCGATAATC
+HWI-EAS443:3:4:1525:58#0/1
]_bbbbbab`a`R¥a`_aa^^^]a]S`[LTRTa^^]W^B
@HWI-EAS443:3:4:202:501#0/1
GACCGTTGGAATTTTTAGCATGGTGGAGGCCATGGTGTC
+HWI-EAS443:3:4:202:501#0/1
a^`aaaYa`a^^YUQ^^¥aRYY`_U`YS^^¥U¥^UUMUBB
@HWI-EAS443:3:51:1265:1068#0/1
CTTTAGCTAGGAGCATTGCGAAAAGCTTGAACAGCCTGG
+HWI-EAS443:3:51:1265:1068#0/1
^^a_SZ^¥¥`_S[HY`W¥`]aXSaRLUI¥X^XJ]^G]ZW`

@HWI-EAS443:3:54:1470:2030#0/1
GAGTAACAGTGATAAAGAACAACATAATAAACAATGACCT
+HWI-EAS443:3:54:1470:2030#0/1
a]]¥`_TF`Xa____]P][`U^_X]^V_Z^Z^U¥0^_ZZZZ
@HWI-EAS443:3:54:203:852#0/1
AATTTCTAGCATGGTGGAGGCCATGGTGTCTAGGCCCCCGG
+HWI-EAS443:3:54:203:852#0/1
`]b`TZP[T¥H]aZX``T_^SVPO^]GYKFP¥BBBBBBBB
@HWI-EAS443:3:54:625:405#0/1
CATCTGTTTCATCCTCAAGAATCCCTTTGGCTTTTGTG
+HWI-EAS443:3:54:625:405#0/1
^WQZ_`[XR`¥ZZV`]^bYVYV_]_W_Z_^¥XY[NZ¥]]Y
@HWI-EAS443:3:55:1515:2032#0/1
CACAAATACCAGCAGAAATGCTAGCAAGCATTGAGCTGAA
+HWI-EAS443:3:55:1515:2032#0/1
aYS^^[I¥a_[_abbb^^^`aaaaYV]^I_Ua`]FXX`_a
@HWI-EAS443:3:56:1587:766#0/1
CGAGGATTTTGATTTTCATTCCACTTAGTTTTGTCCCCAG
+HWI-EAS443:3:56:1587:766#0/1
aaaa^aabbb``baaa_aaaa____aa_a_aaaa`^]^[_a
@HWI-EAS443:3:56:1620:1938#0/1
TGAGGATTGGAGTAACAGTGATAAAGAACAACATGATAAA
+HWI-EAS443:3:56:1620:1938#0/1
abR¥H¥bWb_¥b¥`][_a_Y[¥US]]T^]aa[___`P[UY]
@HWI-EAS443:3:58:594:1260#0/1
CTCCAGTATAAGGGAATGTGGTGTGGCATTGTGGC
+HWI-EAS443:3:58:594:1260#0/1
ab]b__JU]b¥[]_NV`][[aWV^a_aN]``W]`XZ`_a_
@HWI-EAS443:3:59:1506:1385#0/1
GTCCATGGTGTATCCTGTTCCCTGTTCCATGGCTGTGTGGA
+HWI-EAS443:3:59:1506:1385#0/1
aaa]aabb```baaZbba]`aababaa_b^_Ua`JFQ`BB
@HWI-EAS443:3:59:965:460#0/1
GCATCATATTCCATGCTTTTGGCTGGACCATGGGGTGGCA
+HWI-EAS443:3:59:965:460#0/1
ZLYTL^b]WJW¥]`YY]a`V¥aBBBBBBBBBBBBBBBBBB
@HWI-EAS443:3:5:1099:387#0/1
TCACTGGGACAACACTAAGTGAATGAATATCAAAATCC
+HWI-EAS443:3:5:1099:387#0/1
aaa_aaabZa``a_a]`a`^a`_aaaa_``_`aa``ZYB
@HWI-EAS443:3:62:1654:314#0/1
TCCAGCGAAAATGCCATAAGCACCAAATCCCTTATACT
+HWI-EAS443:3:62:1654:314#0/1
TYaab`_WVS^aX[X_^aW^T¥WLZFRRPZ¥Z`US[a¥[
@HWI-EAS443:3:63:529:1796#0/1
GTTGGAATTTCTAGCATGGTGGAGGCCATGGTGTGAGGG
+HWI-EAS443:3:63:529:1796#0/1
aG`a¥]Z`^Y]`^U^[^]QZ[Z_¥¥`WV¥BBBBBBBBBB
@HWI-EAS443:3:65:797:1729#0/1
ACTAGGTGAATGAAAATCAAAATCCTCGAATGTTCTGG

+HWI-EAS443:3:65:797:1729#0/1
ab__G]Xaa]a`^aaaa`aa^a¥aaaa__aaa^`_`_`]
@HWI-EAS443:3:67:852:553#0/1
ATCCTGTTCCCTGTTCCATGGCTGTATGGAGCATCTCCAGT
+HWI-EAS443:3:67:852:553#0/1
R[^PZ[^XZ_¥_RNRa¥Q]BBBBBBBBBBBBBBBBBBBB
@HWI-EAS443:3:69:1559:1037#0/1
GTTGGAATTTCTAGCATGGTGGAGGCCATGGAGTCTAGGG
+HWI-EAS443:3:69:1559:1037#0/1
a`ZOXa^`aa`_VZ¥` [ZXP¥^_X¥BBBBBBBBBBBBBBBB
@HWI-EAS443:3:6:316:1794#0/1
ATGTAATCATCGCCATGAACATTCGAGGATTTTGATTTTC
+HWI-EAS443:3:6:316:1794#0/1
`bbabbaaaaT`^aaUabaa`aV`]_a^[^a_a__`a__a
@HWI-EAS443:3:6:965:415#0/1
GTTCTGTTCCATGGCTGGATGGAGGATCTCCAGTATAAG
+HWI-EAS443:3:6:965:415#0/1
aXaaaab`a¥aaba_a`GP[[ZW^VG[ZRXU¥`QPUBBB
@HWI-EAS443:3:71:1407:884#0/1
CTTTCAAAGAAAAGGAGAGTAAGAGACAACATGAGCAAG
+HWI-EAS443:3:71:1407:884#0/1
`baaaaa`[X`S^ab_Rb_`_^_a`ba_aa_`^b^IZ¥__
@HWI-EAS443:3:72:59:844#0/1
GAAAATCAAATCCTCCAATGTTCTGCGGATGATTACAT
+HWI-EAS443:3:72:59:844#0/1
`_V^^¥XTZYUU_aa]WVLW]PQ`ZJZUY]UVF[KWY]TJ
@HWI-EAS443:3:73:542:1374#0/1
GAGTTCTTCAATGGAGGAACAGATCTTCATGATCTCAGAG
+HWI-EAS443:3:73:542:1374#0/1
Za¥¥babba`^¥[D^a`bbb^`]aa_bba`ZYa_]^[a_
@HWI-EAS443:3:76:81:69#0/1
GAAAATCAAATCCTCGAATGTTCTGCGGAGGATTACAT
+HWI-EAS443:3:76:81:69#0/1
a`aXR[UZUMS_[aU`PTZ¥_I[_BBBBBBBBBBBBBBBB
@HWI-EAS443:3:78:624:1260#0/1
AAGCACCACATTGCCTTATACTGGAGATCCTCCATACAGC
+HWI-EAS443:3:78:624:1260#0/1
aa[BBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBB
@HWI-EAS443:3:7:1281:1001#0/1
ATCCTGTTCCCTGTTCCATGGCTGTATGGAGGATCTACAGT
+HWI-EAS443:3:7:1281:1001#0/1
^Z^MaYMZ]¥bb_] [a`_^Y_^¥^ZS¥0`aZUESF[BBB
@HWI-EAS443:3:7:1501:297#0/1
TCTCGATAATGAATCTTGGACAAAAGAAATACACCAAGAC
+HWI-EAS443:3:7:1501:297#0/1
a_YL_abaNZ`RG]U`^^_NQ` [[YW__a¥OS[[[]]¥VJ
@HWI-EAS443:3:81:1423:1187#0/1
TGGAGGATCTCCAGTATAAGGGGATGTGGTGCTTATGGCA
+HWI-EAS443:3:81:1423:1187#0/1
a[MbV^NYb]USbU[¥[`a^PNb^HKK`XXb`X^`_S_

@HWI-EAS443:3:81:971:930#0/1
GGGCCCCAGACACCATGGCCTCCACCATGCTAGAAATTCC
+HWI-EAS443:3:81:971:930#0/1
[``^WQPYaT]]^]GRa`XZRZ_`_`aVOM¥ZQGQ[PXT
@HWI-EAS443:3:83:1244:986#0/1
ACATGGGCAAAAAGAAGTCCTATATAAATAAGACAGGGAC
+HWI-EAS443:3:83:1244:986#0/1
^_US¥HY¥¥YTZaa[Ua[^V¥X_WX_[_aXP_] ^ZZWSNG
@HWI-EAS443:3:83:1675:278#0/1
AATCAAAATCCTCGAATGTTCTGGCGATGATTAATATA
+HWI-EAS443:3:83:1675:278#0/1
]]baaa`^a^`_YSVb``_aa````[WZ[ab__^WDQR``a
@HWI-EAS443:3:83:1699:382#0/1
ATTTCTAGCATGGTGGAGGCCATGGTGTCTAGGGCGCGGA
+HWI-EAS443:3:83:1699:382#0/1
^a]RRb¥_R¥````_ba`^]G]babaS[LMRHZ_U^HWO¥N
@HWI-EAS443:3:83:976:836#0/1
TGTTTCATCCTCAAGAATCCCATTGGCTTGTGTTGAGAA
+HWI-EAS443:3:83:976:836#0/1
Xbaaa_baabT^`aabbb`XK`]aa¥Raaa_a_b¥R`[^
@HWI-EAS443:3:85:1458:823#0/1
AACTAACTCAAGGTCGCCAGACTTATGCTTGGACATTA
+HWI-EAS443:3:85:1458:823#0/1
ababbbaaaaaba^`a^_aa_`aa_a`G_aa_`]`aaa^`
@HWI-EAS443:3:86:1652:1593#0/1
CGAGGATTTTGATTTTCATTCCAATTAGTGTGTTGCCAG
+HWI-EAS443:3:86:1652:1593#0/1
ab[¥`aZ`¥``S^[a¥Xa`aa_XHXbb_T_¥X`Z¥IYGT^
@HWI-EAS443:3:86:959:453#0/1
CAACACTAAGCGGAATGAAAATCAAAATCCTCGAATGTTC
+HWI-EAS443:3:86:959:453#0/1
a_Y_^_`bb^Ra`0¥_a`aW`ababa`a[V]b`a[b]a`
@HWI-EAS443:3:87:364:1246#0/1
AGGATCTCCAGTATAAGGGAATGTGGTGCTTATGGTATTT
+HWI-EAS443:3:87:364:1246#0/1
¥]]aab`aaY^`aa_IZY¥[aaa[a`_]a_`^`^]Z]a`
@HWI-EAS443:3:87:63:141#0/1
AATTTCTAGCATGGTGCAGGCCATGGTGTCTAGGGCCCGG
+HWI-EAS443:3:87:63:141#0/1
a[bbba]Uaba_ab]b^bbaa`a^`]M¥MUYV_UU[a^¥^
@HWI-EAS443:3:87:817:773#0/1
ACCGGTTGGAATTTCTAGCATGGTGGAGGCCATTGTGTCT
+HWI-EAS443:3:87:817:773#0/1
a¥]_b]aa`__aaa`____ZT``_V]VIZ[_a[WDZNX]^ [
@HWI-EAS443:3:88:1261:1283#0/1
ATTTATATAGGACTTATTTTTGCTCATGTTGATTCCCCT
+HWI-EAS443:3:88:1261:1283#0/1
a_]_a¥Va^R¥^a`WD¥]aV_aVa^^aaW_aL^aa¥_]a
@HWI-EAS443:3:88:698:1032#0/1
TGGAATTTCTAGCATGGTGGAGGCCATGGGGTCTAGGGCC

+HWI-EAS443:3:88:698:1032#0/1
a`]baabaaaaabaa`]a]a]aS```aYLYS`]¥]^^]^^
@HWI-EAS443:3:89:1209:623#0/1
CATGCTCCAGCCAAAAGCATGGAATATGATGCCGTTGCAA
+HWI-EAS443:3:89:1209:623#0/1
T^W^GM^aa_Z_a`¥TQ__W^^a[__bba_`bb¥K^¥DU`
@HWI-EAS443:3:8:1056:635#0/1
TGCCGTTGATTTCTGTTTAATGTCCAATAATAAGTCTGG
+HWI-EAS443:3:8:1056:635#0/1
``_S_aZ^[\`a_^Y^_]``a_aa[T__`XG¥_aRaYW_¥[
@HWI-EAS443:3:90:148:712#0/1
GTCTTGGTGGATTTCTTTTGTCCAAGATTCAGTATCGAGA
+HWI-EAS443:3:90:148:712#0/1
`[]¥]^NTEX^a[VZ[ZX`Raa` `[¥[__^[V¥ZWZ^W]
@HWI-EAS443:3:90:1591:1016#0/1
GAGTTCTACAATGGTGAACAGATCTTCATGATCTCAGAG
+HWI-EAS443:3:90:1591:1016#0/1
^abbbbbbabaabbbbabab^b`bb`bb`bb`ab¥b^bbaa
@HWI-EAS443:3:91:1412:1189#0/1
ACTTTGTTGAACCTTTAGCTAGGAGCATTTGCGAAAAGCT
+HWI-EAS443:3:91:1412:1189#0/1
aabbabbbbbbb_babbb`abbaaa`a`aab_b_aaaa¥a
@HWI-EAS443:3:91:162:1071#0/1
ATCCTGTTCCCTGTTCCATGGCTGTATGGAGGATGTCCAGT
+HWI-EAS443:3:91:162:1071#0/1
^]a`ba[ab[_S]aaaa^W]]aODS[``_¥_[BBBBBBBBB
@HWI-EAS443:3:92:137:700#0/1
CGCAAAATGCCATAAGCACCACATACCCTTATACTGGAGA
+HWI-EAS443:3:92:137:700#0/1
a`X[RNQ[YR_¥X¥`_X_VGO[^OHPXTOLTNVRY_U[BB
@HWI-EAS443:3:92:628:730#0/1
AACAGTGATGAAGAACAACATGATAAACAATGACCTTGGA
+HWI-EAS443:3:92:628:730#0/1
[ZQ__T][]Iaa_Ya]``_WWaa_WW`XZX]aS^¥¥H_aW
@HWI-EAS443:3:92:940:1237#0/1
ACTGGGACAACACTAAGTGAATGATAATCAAAATCCTC
+HWI-EAS443:3:92:940:1237#0/1
`_aV[^ZaWaa^XX^]P_W_^`][MT_]_aa]aa_]ZP
@HWI-EAS443:3:93:1771:1919#0/1
ATGGTGTATCCTGTTCCCTATTCCATGGCTGTATGGAGGAT
+HWI-EAS443:3:93:1771:1919#0/1
¥^_¥N``a^a`a_ZUZFU`]¥]¥W[BBBBBBBBBBBBB
@HWI-EAS443:3:93:426:1691#0/1
GTTCTTCAATGGCGGAACAGATCTTCATGATCTCAGAGAA
+HWI-EAS443:3:93:426:1691#0/1
U]^_a`Z_NDW]SZZ``]^¥¥[__V^¥__X^`]_[VP
@HWI-EAS443:3:94:1019:616#0/1
CTCTGTGTCTTGTGAATTAGCCATCATCTTTCTCACAACA
+HWI-EAS443:3:94:1019:616#0/1
`aabaa`_Z^b^`a_^_]`]]`aa_¥[^bb_¥a_FZa[a

@HWI-EAS443:3:94:427:632#0/1
AATTTCTAGCATGGTGGAGGCCATGGCGTCTAGGGCCCCGG
+HWI-EAS443:3:94:427:632#0/1
`¥¥_a`¥XaU[IUU_`¥¥XVQXWJWDVFTQQSX]¥¥RU]
@HWI-EAS443:3:94:762:820#0/1
AATTTCTAGCATGGTGGAGCCCATGGTGTCTAGGGCCCCGG
+HWI-EAS443:3:94:762:820#0/1
^`aZR`a`^¥¥`[[H`V`NEXR`YYP]XaUXNRP]`_^R
@HWI-EAS443:3:95:1172:941#0/1
GCCATAAGCAGCACATTCCCTTATACTGGAGATCCTCCAT
+HWI-EAS443:3:95:1172:941#0/1
^ZbU`WQZa_HOYRb`a]]ZWbZ`_]^WZbaW[¥`a¥Xab
@HWI-EAS443:3:96:1510:1610#0/1
AATCTTCACATTCCCTGAAGTCTGCTGAAAATGGGAGCTAA
+HWI-EAS443:3:96:1510:1610#0/1
aa`__aY`aY_YP[^]JYaXTaaZ[FYa¥¥S`TIXaUS^]
@HWI-EAS443:3:96:823:1685#0/1
ATTTCTAGCATGGTGGAGGGCATGGTGTCTAGGGCCCCGGA
+HWI-EAS443:3:96:823:1685#0/1
]V^]G]aa^b^^aG¥UaaKGY^YQVLXS¥G^PZUU`W¥¥B
@HWI-EAS443:3:97:1485:976#0/1
CGGTTGATTTCTGTTTAAATGTCCAATAATAAGTCTGGCGA
+HWI-EAS443:3:97:1485:976#0/1
abaZ`bbb¥bTbabbb_bb__aWxa¥GZbaaa¥[ba]Uaa
@HWI-EAS443:3:97:757:389#0/1
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+HWI-EAS443:3:97:757:389#0/1
`abba`]babaaaaabbaa_abab_a_baaaZaaaa[_U
@HWI-EAS443:3:97:957:1811#0/1
GTCCCTGTCTTATTTATATAGGACTTATTTTTGCTCATGT
+HWI-EAS443:3:97:957:1811#0/1
aS[YZ_a[Wa`a`Wa^a¥_aW_X`]I_S]WZ`^QX]Y[]
@HWI-EAS443:3:98:1781:1412#0/1
ATCAAAATCCTCGAATGTTCCCTGGCGATGATTACAAATAT
+HWI-EAS443:3:98:1781:1412#0/1
^X]bb`Z`^[M[_QOU¥[UFSU^]`a_]QNTPMKZUVRY[
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CAAAGGGATTACAGGGGATTACAAAGTCTTCGCCGATAATC
+HWI-EAS443:3:99:1251:1897#0/1
Wb[b]ab_b`U`]Y¥a_ba`bW___VL]^QIS[b`bbbaS
@HWI-EAS443:3:99:1472:1565#0/1
AATTTCTAGCATGGTGGAGGCCATGGTGTCTAGGGACCGG
+HWI-EAS443:3:99:1472:1565#0/1
ab`aaa`bNb^ba_aaaaa`Gaa¥^WX_¥^^_^_GQS¥L
@HWI-EAS443:3:17:208:459#0/1
ATCCTGTTCCCTGTTCCATGGCTGTATGGAGGATCTCCCGT
+HWI-EAS443:3:17:208:459#0/1
aaaa]aZ`aaa¥^a`_`a^U¥]HRU¥^V^^PWU¥¥TGTB
@HWI-EAS443:3:23:1197:1542#0/1
GCAACGGCATCATATTCCATGCTTTTGGCTGGACCATTGG

+HWI-EAS443:3:23:1197:1542#0/1
ab__`b¥¥b_U[aaaaS¥_]`aaaaa^[``U]¥¥Z[OGZ]
@HWI-EAS443:3:23:239:1655#0/1
CATTCCTGGGGACAACACTAAGTGGAAATGAAAATCAAAA
+HWI-EAS443:3:23:239:1655#0/1
aYF[abba``Y^baa`aa_`V`V`a``a_`aaa``aaa]
@HWI-EAS443:3:28:1445:1138#0/1
AGCCGGCATCATATCCATGCTTTTGGCTGGACCATGGGC
+HWI-EAS443:3:28:1445:1138#0/1
```aaabaaabaaaa`\_`aaaaa`a¥^aa`XTV\_\_]M\_U  
@HWI-EAS443:3:28:232:831#0/1  
ATCCTGTTCCCTGTTCCATGGCTGTATGGAGGATCTCCCGT  
+HWI-EAS443:3:28:232:831#0/1  
\_\_abab\_aaaa\_aaa]`^^\_aaXZ¥¥RJ[[LTXUPRETS  
@HWI-EAS443:3:40:1407:1757#0/1  
CTTTTCGCAAATGCTCCTAGCTAAAGTTTCAACAAAGAAT  
+HWI-EAS443:3:40:1407:1757#0/1  
abbb\_`\_aabb\_TGY¥^^a]`[^\_`^]`\_][aX¥]MGFJS  
@HWI-EAS443:3:53:1116:1577#0/1  
TAAGCACCACATTCCCTTATACTGGAGATCCTCCATAAAG  
+HWI-EAS443:3:53:1116:1577#0/1  
]b\_b]`XbbaYU¥¥aaba`\_bS`Ta\_b^RZ^\_YP[``GT^  
@HWI-EAS443:3:59:1309:1558#0/1  
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+HWI-EAS443:3:59:1309:1558#0/1  
aVI]]aaVa^aaa^`\_abaZZ`aa`aa¥J`^S`R¥S[UVV  
@HWI-EAS443:3:61:890:1817#0/1  
GGGCAACACTAAGTGGAAATGAAAATCAAAATCCTCGAATG  
+HWI-EAS443:3:61:890:1817#0/1  
\_QJSNTZ¥S¥Z]QFU^]\_¥`Y[U[V^^TZ[PZLTQXUXXW  
@HWI-EAS443:3:65:1455:1986#0/1  
GTATTTCTTTTGTCCAAGATTCAGTATCGAGACTCCCNAG  
+HWI-EAS443:3:65:1455:1986#0/1  
`[[^]\_`aa`^R^\_^`a`a\_ZP\_PGZ¥TLMVa\_`XPFDOV  
@HWI-EAS443:3:69:1439:253#0/1  
ACGGCATCATATCCATGCTTTTGGCTGGACCATGGGGTG  
+HWI-EAS443:3:69:1439:253#0/1  
aa\_\_aa\_`\_aa^^`Zb`[a[``]^`a`]^X]^Yaa[DXa  
@HWI-EAS443:3:70:349:1825#0/1  
TGTCGGTTGATTTCTGTTTAATGTCCAATCATAAGTCTGG  
+HWI-EAS443:3:70:349:1825#0/1  
aaabX]IYXUW¥\_ZXV]V`]aON]aaZUVaXY]`ZX`RDT  
@HWI-EAS443:3:77:1590:1281#0/1  
TANGACTTCTTTTTGCTCATGTTGATCCCACTAACTTGC  
+HWI-EAS443:3:77:1590:1281#0/1  
a[D¥a\_baabbaaaaaabaaaaaaa`a`a`aa]a\_a\_\_``^  
@HWI-EAS443:3:79:1211:1415#0/1  
GCGGCCGTTGATTTCTGTTTAATGTCCAATCATAAGTCT  
+HWI-EAS443:3:79:1211:1415#0/1  
abYITaXaR¥` `[aXYU¥``YWa\_\_X`a`]\_XXZa\_`S^^



+HWI-EAS443:3:25:1227:1261#0/1  
aaaabZJD[a\_a` `\_\_¥¥` [Z]\_a]a`\_]\_^]]¥]¥\_a\_]X  
@HWI-EAS443:3:27:1202:2024#0/1  
AAAGCTTGTGAATTCAAATGTCCTGTCTTATTTATNTAG  
+HWI-EAS443:3:27:1202:2024#0/1  
^^]Y\_[[VL[aSVN[`ZPYWS\_]X^[VQ¥V]]Y]^TDJ¥W  
@HWI-EAS443:3:2:820:1108#0/1  
ATTTCTAGCATGGTGGAGGCCATGGTGTCTAGGGCNCGGA  
+HWI-EAS443:3:2:820:1108#0/1  
a`baababaaaaZEZ\_T]aaa^` `aUWX¥S^^S]WDS[]W  
@HWI-EAS443:3:31:1333:514#0/1  
TGTCCATGNTGTATCCTGTTCCCTGTTCCATGGCTGTATGG  
+HWI-EAS443:3:31:1333:514#0/1  
]`]S^b`ZDwa`\_` [aa[^a` `a\_aaa` ¥abaVZBBBBBB  
@HWI-EAS443:3:32:1450:1524#0/1  
CAATGGTGAACAGATCTTCNTGATCTCAGAGAACTCTTC  
+HWI-EAS443:3:32:1450:1524#0/1  
ab]XVS¥a[at^YXP]b]aYD¥RTS` [ `WRLVP¥Ya]¥X^  
@HWI-EAS443:3:34:1092:270#0/1  
GGACTTCTTTNTGCTCATGTTGATTCCCACTAACTTGCGAG  
+HWI-EAS443:3:34:1092:270#0/1  
`aNTW` `` \_[DW`Z^V^aa` `a\_]\_a`\_a\_\_[\_^^[HWV]  
@HWI-EAS443:3:35:650:1066#0/1  
GCCAGNCTTATGATTGGACATTAACAGAAATCAACCGGC  
+HWI-EAS443:3:35:650:1066#0/1  
aaba¥D^bbaaaaabaaaaaaaaaab` ¥VS]a]a` ^^` a  
@HWI-EAS443:3:44:495:1216#0/1  
TGCCGGTTGATTTCTGTTTAATGTNCAATCATAAGTCTGG  
+HWI-EAS443:3:44:495:1216#0/1  
aaaabb`aaaabbaba`baaabaXD[a` ` \_aaa` a\_]` a\_  
@HWI-EAS443:3:47:227:1203#0/1  
ACTGGAGATCCTCCATACAGCCNTGGAACAGGAACAGGAT  
+HWI-EAS443:3:47:227:1203#0/1  
a` \_\_\_\_aZ` ^¥\_Z\_]a^`\_]PDR]Z]^R^^U^\_X]U]YY  
@HWI-EAS443:3:48:204:1775#0/1  
AATTTCTAGCATGGTGGAGGCCATGGTGTNTAGGGCCCGG  
+HWI-EAS443:3:48:204:1775#0/1  
UZ¥¥[MVU^WRPQYSBBBBBBBBBBBBBBBBBBBBBBBBBBB  
@HWI-EAS443:3:4:686:1409#0/1  
CAAAATGCCATAAGCACACNTTCCCTTATACTGGAGATC  
+HWI-EAS443:3:4:686:1409#0/1  
]b`Z` ` [¥Y\_]bbY` `Z`\_YD^\_I^^¥I` `]T[a\_`aaaB  
@HWI-EAS443:3:52:65:1384#0/1  
GGGGACAACACTAAGTGAATGAAAATCAANATCCTCGAA  
+HWI-EAS443:3:52:65:1384#0/1  
ab^RZ^\_`aZa\_JaY0a\_`\_`a`\_]Q\_\_¥TDW\_`W` a^OX  
@HWI-EAS443:3:55:262:998#0/1  
GAGTTCTTCNATGGTGAACAGATCTTCATGATCTCAGAG  
+HWI-EAS443:3:55:262:998#0/1  
aaa`aaaaXDU` a^W¥WW`WaaYa^a` `\_^]^¥¥][[^\_\_

@HWI-EAS443:3:57:836:1279#0/1  
GTCCCNGTCTTATTTATATAGGACTTCTTTTTGCTCATGT  
+HWI-EAS443:3:57:836:1279#0/1  
abab¥DZaab`\_babaaaaa`a`aa`aabaa`\_a^\_a`\_  
@HWI-EAS443:3:60:462:208#0/1  
CATCAATCCGGCCCTAGACACCATGGCCTNCACCATGCT  
+HWI-EAS443:3:60:462:208#0/1  
`abb`\_`a`Z¥¥[U[\_]Y]TV[^UX]ZQRDWPTPET\_XU  
@HWI-EAS443:3:64:1104:776#0/1  
CAAGGTCATTGTTTATNATGTTGTTCTTTATCACTGTTAC  
+HWI-EAS443:3:64:1104:776#0/1  
`[Ua¥T¥`bbaY`[]]DRY\_\_`\_]Y¥\_\_aa¥¥VH¥`\_]¥Z  
@HWI-EAS443:3:71:1646:183#0/1  
TGCTGCCGGTTGATTTCTNTTTAATGTCCAATCATAAGTC  
+HWI-EAS443:3:71:1646:183#0/1  
abaYW^\_aa`\_`Y`a\_VXDxa^X\_aa\_X^ZW[Y]`TYFYG  
@HWI-EAS443:3:72:346:1554#0/1  
CAAAGGGATTGAGGGATTACAAAGTCTTCCCNATAATC  
+HWI-EAS443:3:72:346:1554#0/1  
abbaY`\_a`aa`\_`\_a`aaa¥R[W`\_`a`\_YDX^\_^]Q  
@HWI-EAS443:3:73:1231:1592#0/1  
CAAGGTCATTGTTTATCATGTTGTTCTTTATCANTGTTAC  
+HWI-EAS443:3:73:1231:1592#0/1  
abbba\_bbbabaaabbaabaaa`aabaaaaa[D¥aa\_aa  
@HWI-EAS443:3:73:577:1623#0/1  
CACAATCACTGGNACAACACTAAGTGAATGAAAATCAA  
+HWI-EAS443:3:73:577:1623#0/1  
aa]`¥`aaaaaaYDXaaa`\_`aa\_aXa`^`\_a[a[\_\_\_\_`[  
@HWI-EAS443:3:82:1769:1025#0/1  
CTAGCATGGTGGAGGCCATNGTGTCTAGGGCCCGGATTGA  
+HWI-EAS443:3:82:1769:1025#0/1  
abbabbabaUa\_U\_`b[`YDYXZ^]\_a]^a``\_]T^\_]\_  
@HWI-EAS443:3:82:934:804#0/1  
TCTGNTCATCCTCAAGAATTCCCCTTTGGCTTGTGTTGAG  
+HWI-EAS443:3:82:934:804#0/1  
abaZD[abb`ba`aaa^ba`aaaaab`^aaZ^Y\_a¥W`  
@HWI-EAS443:3:85:1104:1217#0/1  
GTTCTTCAATGGTGAACAGATCTTCANGATCTCAGAGAA  
+HWI-EAS443:3:85:1104:1217#0/1  
aXaaaaaba\_^¥a`^`\_a\_\_a\_aaYWD^`\_Zaaa\_aa`\_`  
@HWI-EAS443:3:89:1747:1054#0/1  
GCACCACATTCCCTTANACTGGAGATCCTCCATACAGCCA  
+HWI-EAS443:3:89:1747:1054#0/1  
¥a`QUYOaW[Xa\_]a[D[]`\_TZ`U]\_P^^]\_LZ[aba`]  
@HWI-EAS443:3:8:806:775#0/1  
AACTTTAGCTAGGAGCATTTGCGAAAAGCNTGAACAGTCT  
+HWI-EAS443:3:8:806:775#0/1  
aa`\_`bbaaa`ba\_a`aaaaaaaZa`ZaZDZa][U^\_¥^\_  
@HWI-EAS443:3:90:1169:1401#0/1  
CTGGGGACAACACTAAGTNGAATGAAAATCAAAATCCTCG

+HWI-EAS443:3:90:1169:1401#0/1  
abbaabbbb]baaababRD]bbbbabbbbaa`bbbabbab  
@HWI-EAS443:3:96:1565:528#0/1  
GTTCTTCAATGGTGGACAGATCTTCATGATCNCAGAGAA  
+HWI-EAS443:3:96:1565:528#0/1  
aaa`\_a¥`aabaUaa\_^`S^`]Y\_W\_¥\_\_UKDO^\_\_X]`  
@HWI-EAS443:3:10:711:1600#0/1  
CAGAGTCTCGATACTGAATCTTGGACAAAAGAAATACACC  
+HWI-EAS443:3:10:711:1600#0/1  
ab\_aa¥baa\_`\_]R\_V\_^]Z\_[P]YT]\_\_]^¥^^W^Z\_^U  
@HWI-EAS443:3:14:106:1100#0/1  
CACCAGCCAAAAGCATGGAATATGATGCCGTTGCAACTAC  
+HWI-EAS443:3:14:106:1100#0/1  
\_¥`\_Z]ba]aa[\_`aaaaY`a`a\_aa\_^\_]\_\_\_\_]^  
@HWI-EAS443:3:14:1625:910#0/1  
GTTGATTTCTGTTAATGTCCAATCATAAGTCTGGCGAGC  
+HWI-EAS443:3:14:1625:910#0/1  
aYT^^[\_`a\_¥[\_]\_]W\_S¥[WG¥^\_a[Z\_WV¥\_VLWLFJ  
@HWI-EAS443:3:15:1285:316#0/1  
GTGCCAGACTTATGATTGGACATTAACAGAAATCAACCG  
+HWI-EAS443:3:15:1285:316#0/1  
a```0Ya`aba`aa^aaaa^¥`aa[\_`^a\_Y[\_`\_`a`USV  
@HWI-EAS443:3:15:312:662#0/1  
GCCTGCCGGTTGATTTCTGTTAATGTCCAATCATAAGTC  
+HWI-EAS443:3:15:312:662#0/1  
`ba[ZbbaaQaa\_¥``VYYV[¥`aa\_FY\_V[Y]¥R¥`]W\_  
@HWI-EAS443:3:1:1770:235#0/1  
GGTGTATCCTGTTCCCTGTTCCATGGCTGTATGGAGGATTT  
+HWI-EAS443:3:1:1770:235#0/1  
`b```a`\_]aaaa\_\_`\_\_aUU\_aa\_^a\_RUTRBBBBBBBB  
@HWI-EAS443:3:22:754:1664#0/1  
CACCAGACTTATGATTGGACATTAACAGAAATCAACCGG  
+HWI-EAS443:3:22:754:1664#0/1  
^TYY`TTH]R[bb`[^`\_`aaba¥Z[Xab[\_Qa\_``^^`[R  
@HWI-EAS443:3:27:391:1585#0/1  
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+HWI-EAS443:3:27:391:1585#0/1  
Zb`¥`bbabbaa^a^Ra\_Y[\_`\_Y]X[aP¥XPX`ZTZPGG  
@HWI-EAS443:3:29:1559:1354#0/1  
ANAAAAAGGAGAGTAAGAGACAACATGACCAAGAAGATGG  
+HWI-EAS443:3:29:1559:1354#0/1  
YDYaaabbbb]aa\_aaaaaaaaa^a`\_a^\_a]aaaa\_a\_  
@HWI-EAS443:3:29:939:1783#0/1  
GNTCCAAGGTCATTGTTTATCATGTTGTTCTTTATCACTG  
+HWI-EAS443:3:29:939:1783#0/1  
[D[bbbb`a]aaabb`babbbaaa`a`abababba\_a`^[  
@HWI-EAS443:3:35:1033:1081#0/1  
CAGAGTCTCGATACTGAATCTTGGACAAAAGAAATACACC  
+HWI-EAS443:3:35:1033:1081#0/1  
a`bbaabbaaabaab\_aaaaaa\_]a`Y`aa]\_\_\_\_^Sa



@HWI-EAS443:3:35:360:1979#0/1  
CATGGGAGTCTCGATACTGAATCTTGGACAAAAGAAATAC  
+HWI-EAS443:3:35:360:1979#0/1  
a`aaX`a^¥b`W]^\_\_^\_\_[W`¥]¥VXa^\_\_aU]]^W]\_  
@HWI-EAS443:3:36:735:319#0/1  
TACTGGAGATCCTCCATACAGCCATGGAACAGGAACAGAT  
+HWI-EAS443:3:36:735:319#0/1  
aa`babba`aaaaa^a`a^a\_[aa``\_^¥`\_`XW\_V^\_\_Z  
@HWI-EAS443:3:38:1557:208#0/1  
ACACTTTGTTGAAACTTTAGCTAGGAGCATTGCGAAAAG  
+HWI-EAS443:3:38:1557:208#0/1  
SOWVV\_H¥R\_bSaUaaZ\_]\_QYaaaK[]¥ZBBBBBBBBBB  
@HWI-EAS443:3:46:1460:1640#0/1  
CACGCCAGGAACATTCGAGGATTTTGATTTTCATTCCACT  
+HWI-EAS443:3:46:1460:1640#0/1  
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@HWI-EAS443:3:48:516:411#0/1  
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+HWI-EAS443:3:48:516:411#0/1  
]I^baab`aaaaaaaaaaaa\_\_Y]]XT]P[\_`¥VT\_a\_YU  
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GGGGAACAGATCTTCATGATCTCAGAGAACTTCTTTCT  
+HWI-EAS443:3:49:1621:221#0/1  
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+HWI-EAS443:3:51:1130:661#0/1  
[DY`abbaab\_b]^`ababa\_b`a`a]a[aa\_aa^`a\_aa¥  
@HWI-EAS443:3:51:1183:1153#0/1  
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+HWI-EAS443:3:51:1183:1153#0/1  
abbbabbbb`baabaabb`bb[aa\_`aaaa`b¥abbaaa  
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+HWI-EAS443:3:63:1596:1504#0/1  
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@HWI-EAS443:3:6:1547:622#0/1  
GCCTTGGTGTATTTCTTTTGTCCAAGATTCAGTATCGAGA  
+HWI-EAS443:3:6:1547:622#0/1  
¥LN]\_aaHaHR\_\_[Z\_\_\_Z\_ZXZVZYZGZZXWBBBBBBBB  
@HWI-EAS443:3:72:1298:1082#0/1  
CATCCGGGCCCTAGACACCATGGCCTCCACCATGCTAGAT  
+HWI-EAS443:3:72:1298:1082#0/1  
\_`X¥]VO¥T\_aaaa`aaX\_````XXVOV]^\_H¥^¥Q``¥  
@HWI-EAS443:3:9:366:1382#0/1  
TCCTGTTCTGTTCCATGGCTGTATGGAGGATCTCCAGGA  
+HWI-EAS443:3:9:366:1382#0/1  
aaaaa\_a\_]aa\_\_[a\_aa^\_\_`NX¥[Y^\_\_NNTWUYI¥HQ  
@HWI-EAS443:3:100:936:1325#0/1  
ACTGTGCCATGGTGTATCCTGTTCCATGGCTGG

+HWI-EAS443:3:100:936:1325#0/1  
W\$^\_[baWY`¥Z¥a\_TQ]`PZ¥]b`a`XKZNW`¥M[BBBB  
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ACTCGATACTGAATCTTGGACAAAAGAAATACACCAAGAC  
+HWI-EAS443:3:10:331:141#0/1  
aaaaa\_a``a`]\_]\_\_Y^^Z]]^^^¥\_^]]Y^YWZ]]YX  
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+HWI-EAS443:3:11:25:131#0/1  
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@HWI-EAS443:3:11:841:948#0/1  
ACCCTGTCTTATTTATATAGGACTTCTTTTTGCTCATGTT  
+HWI-EAS443:3:11:841:948#0/1  
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+HWI-EAS443:3:11:946:1673#0/1  
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@HWI-EAS443:3:15:708:325#0/1  
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+HWI-EAS443:3:15:708:325#0/1  
^`¥0QS`\_]a^¥`\_]aQY¥S^YZ^WY\_]TUZ[W¥]Y\_PYY  
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+HWI-EAS443:3:17:509:343#0/1  
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+HWI-EAS443:3:18:381:1245#0/1  
abab\_`a[\_a]aba\_abaJ\_a`^abaa\_aaYaaa`a\_Yaa  
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+HWI-EAS443:3:28:1579:2046#0/1  
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@HWI-EAS443:3:30:331:689#0/1  
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+HWI-EAS443:3:30:331:689#0/1  
¥abbbbabba^`bbb\_bbbbabbabbbbabbb\_bba[M  
@HWI-EAS443:3:31:837:1988#0/1  
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+HWI-EAS443:3:31:837:1988#0/1  
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@HWI-EAS443:3:32:699:916#0/1  
CCGCCAGGAACATTCGAGGATTTTGATTTTCATTCCACTT  
+HWI-EAS443:3:32:699:916#0/1  
aba¥S¥a`]W]a`^^\_T¥`RWYS\_a\_`a\_¥Y[X`[LWYZY  
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ATGGGGACAACACTAAGTGAATGAAAATCAAAATCCTCG  
+HWI-EAS443:3:33:1576:646#0/1  
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a`abb\_aaaaaaaaaaaaa`aJ\_``¥JY\_YZZ\_Y^TRNX  
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AATAAGACAGGGACATTTGAATTCACAAGCTTTTTTTATA  
+HWI-EAS443:3:38:1577:777#0/1  
aabaabaaabaa\_`aaa^Z]`aaa\_\_a\_aGZ]\_\_\_\_^`X\_G  
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NCTTTGTTGAAACTTTAGCTAGGAGCATTTCGCGAAAAGCT  
+HWI-EAS443:3:40:434:1910#0/1  
DMZZZWZRLTZZZZWWWXYVYWSKDOVWSYPSWUOTWU  
@HWI-EAS443:3:42:1615:1819#0/1  
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+HWI-EAS443:3:42:1615:1819#0/1  
Y`[S\_\_\_\_H[]XZ^\_[0¥Y[Zaa^R]TS]``XXXWJYLX`a  
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GCTGGGGACAACACTAAGTGAATGAAAATCAAATCCTC  
+HWI-EAS443:3:44:1594:420#0/1  
aa]¥¥aa^`\_^\_\_\_\_`\_^a¥`a^]`a^^\_\_^]\_]\_]\_VP¥X  
@HWI-EAS443:3:46:1650:1095#0/1  
CCTTGGTGTATTTCTTTTGTCCAAGATTCAAGTATCGAGAC  
+HWI-EAS443:3:46:1650:1095#0/1  
^`bb`W]bbaab\_0¥bbb``[``U^Y¥`S^\_Ya^ab\_aZa  
@HWI-EAS443:3:46:73:1421#0/1  
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+HWI-EAS443:3:46:73:1421#0/1  
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@HWI-EAS443:3:4:790:924#0/1  
GATTGGAGTAACAGTGATAAAGAACAACATGATAACAAT  
+HWI-EAS443:3:4:790:924#0/1  
a[[^S[YZJ¥`^^\_V]Za\_a^MY^¥`^[[^YTRY[WS^U  
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CGGTGGAACAGATCTTCATGATCTCAGAGAACTTTCTTT  
+HWI-EAS443:3:50:1154:1174#0/1  
abbabbbbbbbbb\_bbbbbbaaaabaabaab`bbaaba  
@HWI-EAS443:3:52:972:874#0/1  
TGCGCAAATGCCATAAGCACCATTCCTTATACTGGA  
+HWI-EAS443:3:52:972:874#0/1  
abaa\_aa\_b`\_`aaa[a`aV^a^aa¥[Z\_a`aaa^]S``  
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+HWI-EAS443:3:54:323:1958#0/1  
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@HWI-EAS443:3:55:635:664#0/1  
CTCCGGGCCCTAGACACCATGGCCTCCACCATGCTAGAAA  
+HWI-EAS443:3:55:635:664#0/1  
¥^a\_¥¥\_\_¥a¥¥`¥]^`a`a^\_Z\_b\_\_]\_W\_`¥\_abaXa^  
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@HWI-EAS443:3:82:1190:99#0/1  
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+HWI-EAS443:3:82:1190:99#0/1  
\_bbaa¥\_a`\_\_¥aa\_bIbb`^`ba\_a``Yaaaaa¥Wa\_a\_  
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GACGGCATCATATTCCATGCTTTTGGCTGGACCATGGGCT  
+HWI-EAS443:3:87:1039:680#0/1  
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+HWI-EAS443:3:8:383:568#0/1  
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+HWI-EAS443:3:8:574:636#0/1  
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+HWI-EAS443:3:92:1780:1811#0/1  
G]bbba`bbaa^S\_`a`^¥aba``aba`baab\_a`Z¥^Y  
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+HWI-EAS443:3:92:653:603#0/1  
`\_bbbbb^Ya``Za¥a\_aaaba¥b\_aa`a^\_aba`a[^F  
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+HWI-EAS443:3:96:366:457#0/1  
[aaa`b¥a`\_`a`aaZ^`\_a]\_\_[[VW\_¥a¥`\_WYWSSY  
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+HWI-EAS443:3:98:1033:950#0/1  
aa`b`aaaa]`\_]a\_\_a\_\_`a`a\_\_\_\_\_`^`^`]^`^¥\_  
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ab]XQXW\_^R^ab]RZ\_bb`¥\_aaabaaSaab¥]TQ[R``  
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+HWI-EAS443:3:100:1039:593#0/1  
aa¥`\_¥`a\_aa^Uaa`aa```\_aa^a`\_aaZ\_`\_a\_\_`a  
@HWI-EAS443:3:100:114:821#0/1  
GAGTTCTTCAATGGTGAACAGATCTTCATGATCTCAGAG  
+HWI-EAS443:3:100:114:821#0/1  
aa`\_a\_abaaa`]^aaaa^[```\_aa\_aXa``\_`Z\_]`a  
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+HWI-EAS443:3:100:1167:636#0/1  
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@HWI-EAS443:3:100:1178:874#0/1  
GATCTCCAGTATAAGGGAATGTGGTGCTTATGGCATTTTG  
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`Xa\_ZH¥\_b^W`¥T^aaU``aX]aVaVa`[\_[UPRBBBBB  
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+HWI-EAS443:3:100:1441:537#0/1  
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+HWI-EAS443:3:100:1596:1400#0/1  
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+HWI-EAS443:3:100:321:1469#0/1  
^W\_b\_ababb\_¥`X^aT`a`a]a\_S\_`\_aa\_^a\_]\_`\_R¥  
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+HWI-EAS443:3:100:360:786#0/1  
a\_aa`\_`Z`aaW[``¥^\_¥^¥\_\_\_^\_\_YUU^^\_]^[ ]QB  
@HWI-EAS443:3:100:584:1456#0/1  
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+HWI-EAS443:3:100:584:1456#0/1  
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@HWI-EAS443:3:100:648:364#0/1  
GAAAAAGGAGAGTAAGAGACAACATGACCAAGAAGATGGT  
+HWI-EAS443:3:100:648:364#0/1  
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CATTCGAGGATTTTGATTTTCATTCCACTTAGTGTGTCC  
+HWI-EAS443:3:100:685:469#0/1  
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+HWI-EAS443:3:100:839:400#0/1  
ab\_abb^ba`aX\_bab]babaab`aaabbbab^baabb¥¥  
@HWI-EAS443:3:10:1016:531#0/1  
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+HWI-EAS443:3:10:1067:1086#0/1  
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+HWI-EAS443:3:10:1117:114#0/1  
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@HWI-EAS443:3:10:1205:1360#0/1  
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+HWI-EAS443:3:10:1205:1360#0/1  
W^X¥\_V\_0¥^b`]Z[RUaaa`N^\_Vaa^]VQ[R\_T[\_^NX  
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+HWI-EAS443:3:10:1295:1516#0/1  
aaa`a\_aa`aaa^]^aaaa`\_^\_]\_\_\_\_^¥X^YV^^\_X^^X  
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+HWI-EAS443:3:10:1397:356#0/1  
aS^a`Z`aXZaa]¥YZ`XW\_^YGUXX^S^\_^S]XU]V]Z  
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+HWI-EAS443:3:10:1475:1875#0/1  
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+HWI-EAS443:3:10:1516:1695#0/1  
ab`\_ab^`\_aaa`\_Z`a`\_`aSVY\_\_Q¥\_VQQQVVYWW  
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+HWI-EAS443:3:10:1620:785#0/1  
a`a`aaa`ab¥`aa\_a`a^[aZ]X0`^X^^Z`XVTZ\_0  
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+HWI-EAS443:3:10:1680:984#0/1  
XXZabba\_aba^]^aaP^[`^aa`a`\_X0^a^Y¥`]^Z]  
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+HWI-EAS443:3:10:339:730#0/1  
abba`aaa`a`^`abbbabbabab^aaaba`aa\_aa`¥`a`a  
@HWI-EAS443:3:10:418:632#0/1  
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+HWI-EAS443:3:10:418:632#0/1  
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@HWI-EAS443:3:10:439:1009#0/1  
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+HWI-EAS443:3:10:439:1009#0/1  
a`\_XW\_ab\_\_ab\_]baa`aaaaaY]^abaa\_a\_T^`\_\_^  
@HWI-EAS443:3:10:517:1001#0/1  
CGCAAAATGCCATAAGCACCACATTCCCTTATACTGGAGA  
+HWI-EAS443:3:10:517:1001#0/1  
abb`bbababbbabaabbbbaa`a\_aa`\_aaaab`\_aa`a`a  
@HWI-EAS443:3:10:595:307#0/1  
ATTTCTAGCATGGTGGAGGCCATGGTGTCTAGGGCCCGGA  
+HWI-EAS443:3:10:595:307#0/1  
abbaaaaaaaba¥aaa`a`\_a`\_UYV]X^¥\_UUY]T`T  
@HWI-EAS443:3:10:641:479#0/1  
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@HWI-EAS443:3:11:1283:1011#0/1  
GGTGTATCCTGTTCCCTGTTCCATGGCTGTATGGAGGATCT  
+HWI-EAS443:3:11:1283:1011#0/1  
a`¥]]¥`a`a\_a]\_`^^a\_\_`\_\_VU^]QXSXULQZBBBB  
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+HWI-EAS443:3:11:1533:148#0/1  
aaa^a\_ba\_a`aaaa`a`¥`a\_TXY^a`^`Z^\_YX^]XX  
@HWI-EAS443:3:11:1644:822#0/1  
GTCCAGCCAAAAGCATGGAATATGATGCCGTTGCAACTAC  
+HWI-EAS443:3:11:1644:822#0/1  
a\_a\_aa\_\_aaa`[\_\_\_\_`aa`a`a]Y\_^^X^XZ^W  
@HWI-EAS443:3:11:218:1769#0/1  
GCCGGTTGATTTCTGTTAATGTCCAATCATAAGTCTGGC  
+HWI-EAS443:3:11:218:1769#0/1  
aba\_\_abaaaa`aa\_a`aaa]aaaa^aaaa`X`]`  
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CAATCCGGGCCCTAGACACCATGGCCTCCACCATGCTAGA  
+HWI-EAS443:3:11:415:601#0/1  
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+HWI-EAS443:3:11:437:398#0/1  
a\_abaab`aa`a\_aa`aaa`a\_\_\_\_`Za]`\_^\_ZZ^  
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+HWI-EAS443:3:11:465:1089#0/1  
abZa¥`Z\_aaaaaUa\_`^`\_\_W[\_\_\_Q¥¥¥S\_V¥W\_RVZ¥  
@HWI-EAS443:3:11:476:651#0/1  
GAAAAAGGAGAGTAAGAGACAACATGACCAAGAAGATGGT  
+HWI-EAS443:3:11:476:651#0/1  
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+HWI-EAS443:3:11:477:1027#0/1  
aab\_[\_`^bba\_\_\_\_a`\_]UW]a^Wa`\_a`[\_]U^\_¥\_Y^  
@HWI-EAS443:3:11:50:1492#0/1  
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+HWI-EAS443:3:11:50:1492#0/1  
`\_baaaaba\_a]`a\_a`\_]`a`a\_\_\_\_X`\_^\_\_\_\_^\_\_  
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ATTCGAGGATTTTGATTTTCATTCCACTTAGTGTGTTGCC  
+HWI-EAS443:3:11:61:1310#0/1  
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^\_]\_M\_\_\_\_`[``Z\_W]VZX`MVUYRR]aWYPU¥V¥XYXX¥  
@HWI-EAS443:3:11:805:1536#0/1  
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+HWI-EAS443:3:11:805:1536#0/1  
X^^\_\_¥]RXZXa¥F\_¥TZ[¥]^X`¥SVU^R¥SXZONY\_BB  
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AACTTTAGCTAGGAGCATTGCGAAAAGCTTGAACAGTCT  
+HWI-EAS443:3:11:870:407#0/1  
`b\_b`aababbaa]aaaa`aV]````b\_aaa\_\_a`WQ^  
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+HWI-EAS443:3:11:91:911#0/1  
aaaaa`\_aaaaa]a\_^aaaYW]a¥`\_Y[\_`¥VX^X¥]  
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+HWI-EAS443:3:11:96:1557#0/1  
a`\_`baaaaSaba`Y¥aa¥^aH¥`\_aa^a`Wa`a[a[\_\_\_^  
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CACATTCCCTTATACTGGAGATCCTCCATACAGCCATGGA  
+HWI-EAS443:3:11:971:55#0/1  
`\_ba`\_`bbabbbbKabbb\_bb`SbbSabbaVab`\_aaa`a  
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+HWI-EAS443:3:11:990:1931#0/1  
aa]b^baY\_WGT^U]\_[Wa^\_^]0`a\_\_WUW[\_aSP`Y`Q  
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+HWI-EAS443:3:11:999:885#0/1  
]W^[aab\_]`^aa\_`P¥¥0¥``Q]¥WYNXSZSY[\_[R[Za`  
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CAGTGATAAAGAACAACATGATAAACAATGACCTTGGACC  
+HWI-EAS443:3:12:1060:1041#0/1  
a`XJXa`[^^b[XT\_a`aU`Z]aaYUZ`\_`^MZ]P\_WUQ]  
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CAAAATGCCATAAGCACCATTCCTTATACTGGAGATC  
+HWI-EAS443:3:12:1068:1175#0/1  
ab\_a^aaaabbaa][aaaaT\_`aa^a`aYa\_]\_W\_a`\_Z  
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AAAATGCCATAAGCACCATTCCTTATACTGGAGATCC  
+HWI-EAS443:3:12:1071:1001#0/1  
`Y^ba¥[``aa\_^b`]aaa¥aWR\_aaa\_a\_]¥\_[WXMZ  
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GGTCCAGCCAAAAGCATGGAATATGATGCCGTTGCAACTA  
+HWI-EAS443:3:12:1140:1777#0/1  
X\_\_¥ZWZU¥V`¥S\_a]bba[aabbbUaR`R^b`a¥S^a  
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TGCCGTTGATTTCTGTTTAATGTCCAATCATAAGTCTGG  
+HWI-EAS443:3:12:1176:544#0/1  
^bb[^`NX``abbba\_[aa`aab\_\_\_PJ^``aa^^V]aYX  
@HWI-EAS443:3:12:1293:1686#0/1  
GTTTAATGTCCAATCATAAGTCTGGCGACCTTGAGTTAGT  
+HWI-EAS443:3:12:1293:1686#0/1  
aZ`[^`]XY[`¥]\_\_aa]QY]^RQTSLLX`\_¥\_YW\_]V

@HWI-EAS443:3:12:1329:766#0/1  
GCCGGTTGATTTCTGTTTAATGTCCAATCATAAGTCTGGC  
+HWI-EAS443:3:12:1329:766#0/1  
a`a\_SJ¥\_]Y¥]S¥\_Z\_\_\_U]a[VSMVX]\_[U[]U^WBB  
@HWI-EAS443:3:12:1333:1189#0/1  
ATTTATATAGGACTTCTTTTTGCTCATGTTGATTCCCCT  
+HWI-EAS443:3:12:1333:1189#0/1  
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+HWI-EAS443:3:12:1368:868#0/1  
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+HWI-EAS443:3:12:136:1553#0/1  
a`a\_bb\_baa`^aaaa`a``\_\_[\_a^aa`\_a^^\_\_\_Y\_X\_  
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+HWI-EAS443:3:12:1380:1189#0/1  
X\_aaaa¥`¥`abZJa]\_bURRX^a^N\_W^Z[^Y¥HZBBBB  
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+HWI-EAS443:3:12:1573:902#0/1  
abaa]\_aa`b`\_a\_\_aa\_a\_a`aa`a`\_`\_`W`aa^a`^a  
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+HWI-EAS443:3:12:1772:992#0/1  
X\_a\_ab``aaaa[`[R`¥a`VNP¥F[aa\_\_XYZR]XU]^\_  
@HWI-EAS443:3:12:343:744#0/1  
AAATGCCATAAGCACCACATTCCTTATACTGGAGATCCT  
+HWI-EAS443:3:12:343:744#0/1  
aa`^`aaaa`]aa[\_a``\_\_\_\_``a`]]\_\_[^a^\_^^  
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GGACAACACTAAGTGAATGAAAATCAAAATCCTCGAATG  
+HWI-EAS443:3:12:376:1266#0/1  
Z¥¥S¥I¥`]KaaUU`QPQ]XZa`]\_b^YWIZ¥QXTaRYaB  
@HWI-EAS443:3:12:511:1718#0/1  
CAACGGCATCATATTCCATGCTTTTTGGCTGGACCATGGGC  
+HWI-EAS443:3:12:511:1718#0/1  
aba^U\_aaa\_]\_]\_]`a``\_Z\_¥ZZW\_^a\_^¥Z[TWY¥B  
@HWI-EAS443:3:12:583:1800#0/1  
CAGTGATAAAGAACAACATGATAAACAATGACCTTGGACC  
+HWI-EAS443:3:12:583:1800#0/1  
aba\_baabbbbbbba`aaaaa^a`a`\_a\_  
@HWI-EAS443:3:12:597:553#0/1  
GAGCAAAAAGAAGTCCTATATAAATAAGACAGGGACATTT  
+HWI-EAS443:3:12:597:553#0/1  
\_bbaabbb^\_abXb]aaaaabaaa\_aa]`a]``a\_\_`^  
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+HWI-EAS443:3:12:608:1921#0/1  
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+HWI-EAS443:3:12:617:115#0/1  
`¥aT\_Z`aJ^V¥V`W¥aa\_`ZYSaPZT`][[`ZN`Y\_]S`  
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CGGTTGATTTCTGTTTAATGTCCAATCATAAGTCTGGCGA  
+HWI-EAS443:3:12:618:1747#0/1  
abb`aaaaaaaa\_bbabbbYaaaaa¥aaaa`\_^aa]\_\_^  
@HWI-EAS443:3:12:622:1056#0/1  
GAGTTCTTCAATGGTGGAACAGATCTTCATGATCTCAGAG  
+HWI-EAS443:3:12:622:1056#0/1  
aabUaabaa]a\_aaX¥Vaaa`aa\_[a`P\_\_`\_\_^\_X\_Z\_`  
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CAAATACCAGCAGAAATGCTAGCAAGCATTGACCTGAAGT  
+HWI-EAS443:3:12:791:651#0/1  
\_b\_a``¥\_U`a¥a^`^Vaa`aaUaa^\_\_\_\_]]]]Z[XaU`0  
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\_UUT\_a````aY[`\_a^[bU\_YLZ]\_\_[UYV`^\_ZP`¥[  
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ATCAAATCCTCGAATGTTCTGCGGATGATTACATATAT  
+HWI-EAS443:3:12:904:1476#0/1  
a¥]¥aabba`]]^aaaX^a^````]`a`^MY`\_^¥]¥^a`  
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+HWI-EAS443:3:12:919:936#0/1  
aa\_bb\_[^`Y`][TTaaaaT[\_`]a``a¥\_]`[\_\_\_\_[W  
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+HWI-EAS443:3:12:986:1195#0/1  
aW^`a```^`a\_\_^¥^`\_`W^^\_[W\_[V¥\_¥ZU\_] [BBBB  
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+HWI-EAS443:3:13:1051:1595#0/1  
S\_PX^\_a^`]\_T\_]S\_`aZ¥^¥`^¥a\_¥\_TP^Y¥aaa`Z  
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TTTGAATTCACAAGCTTTTTTATCGCTATGGATTTGTGG  
+HWI-EAS443:3:13:1159:1159#0/1  
VVWYJWS¥aV`WMXTS`aabab`\_^Y^W]Za\_`aa`aa`  
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+HWI-EAS443:3:13:1181:1279#0/1  
[^WS`¥YD]`¥¥`[^`^[Y^\_¥aa`Y`^¥a]`¥\_a``X]`  
@HWI-EAS443:3:13:1264:867#0/1  
CACTGGGGACAACACTAAGTGGAAATGAAAATCAAATCCT  
+HWI-EAS443:3:13:1264:867#0/1  
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\_¥ZRX¥¥SYXY]abaPP`TU[OFJJaZLZ^\_]¥WU^¥`aBB  
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+HWI-EAS443:3:13:1377:1702#0/1  
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+HWI-EAS443:3:13:1507:1455#0/1  
L\_b]]b]b`aV[¥bbaZbaaaa``a`[bb^aab`b[`^  
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+HWI-EAS443:3:13:1547:672#0/1  
aa\_^aaa¥aaa`a`¥Za`a`\_^]`aa\_`]]-[\_^\_R¥  
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+HWI-EAS443:3:13:1654:990#0/1  
aa`¥aa\_ba]aaa]a[\_aba\_ba`\_]a`aaaa\_`XZa\_\_  
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+HWI-EAS443:3:13:1713:1901#0/1  
aaaaaaabb`a\_a]a\_a`aa^aaa\_aaa^\_a^`aa\_]`a^  
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abUab`Zbabaaaa`a`\_`YXZ^Xa\_Z¥¥`¥¥¥^^S\_¥W  
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AATCACTGGGACAACACTAAGTGAATGAAAATCAAAT  
+HWI-EAS443:3:13:267:898#0/1  
a¥b\_U\_aaaa^Ua^`\_a[ZRK`Uaa`[\_\_\_\_Q¥\_\_a`[`a\_  
@HWI-EAS443:3:13:451:679#0/1  
TGAAAATCAAATCCTCGAATGTTCCCTGGCGATGATTACA  
+HWI-EAS443:3:13:451:679#0/1  
\_\_\_\_YaX]V¥]TZ``]^\_`^`a`ZZ]]\_aa`]]`\_Y^X]V]X  
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+HWI-EAS443:3:13:562:1900#0/1  
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GCTCATGTTGATTTCCACTAACTTGCAGGTCCTGTAGAAT

+HWI-EAS443:3:13:731:436#0/1  
aaaaaaa\_baaaa\_\_`a``\_a`\_`````aV[Z^U¥\_\_^\_^  
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TGCCGGTTGATTTCTGTTTAATGTCCAATCATAAGTCTGG  
+HWI-EAS443:3:13:84:783#0/1  
^T`b\_aW^^`b`bba^0ab^UU¥`¥L¥\_\_\_\_]PH]Z`a\_¥  
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+HWI-EAS443:3:13:973:610#0/1  
aa`\_`YDYbZX[\_¥abaTaa`\_a]\_aa]\_\_\_\_^\_[a00¥\_[  
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aa`a`a`\_`aaaa`a`\_a`\_`\_a]`a¥^\_^[\_^\_^^^  
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+HWI-EAS443:3:14:1086:1354#0/1  
a]``\_\_`]\_\_\_\_]W^ZZ^Z\_\_V^^[\_X\_][]ZXZU^Z]V]^  
@HWI-EAS443:3:14:1227:911#0/1  
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aaZ\_`aaa`abaaa¥ba`abaaaa`aa`a`aZa^a\_`aaa  
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TAAGCACCACATTCCCTTATACTGGAGATCCTCCATACAG  
+HWI-EAS443:3:14:1245:1655#0/1  
[a`abb\_aa\_bb`b`¥K¥I\_\_\_\_`¥a^^S\_\_V`\_`N]Y^^  
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+HWI-EAS443:3:14:1260:166#0/1  
abbbYHQ^a`baaaa]aaa\_bZ[]aW`\_YVF]]`¥]G]]\_  
@HWI-EAS443:3:14:1284:1633#0/1  
TGCTGCCGGTTGATTTCTGTTTAATGTCCAATCATAAGTC  
+HWI-EAS443:3:14:1284:1633#0/1  
QZQ]aZZa]G[\_OYS\_``^\_ZZQ\_P^`ZW¥aaa\_`^]FZ  
@HWI-EAS443:3:14:1364:264#0/1  
ATAAATAAGACAGGGACATTTGAATCACAAGCTTTTTTTT  
+HWI-EAS443:3:14:1364:264#0/1  
aaabWaZG`^a^\_\_RU^][]a^[\_U\_¥]`Y]Y]`^^^`^  
@HWI-EAS443:3:14:1469:1794#0/1  
CATCTGTTTCATCCTCAAGAATTCCTTTGGCTTGTGTTG  
+HWI-EAS443:3:14:1469:1794#0/1  
¥X^¥a¥`YV^]a``Zaabbab]T¥TWab\_`WV[[VU[\_Wa  
@HWI-EAS443:3:14:151:1116#0/1  
GTTCTTCAATGGTGAACAGATCTTCATGATCTCAGAGAA  
+HWI-EAS443:3:14:151:1116#0/1  
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@HWI-EAS443:3:14:1548:676#0/1  
AACTAACTCAAGGTCGCCAGACTTATGATTGGACATTAAA  
+HWI-EAS443:3:14:1548:676#0/1  
aaaTY]VY¥`¥X]T^^][^^XRW^[¥UYWT^VQPVXX^][

@HWI-EAS443:3:14:1681:1987#0/1  
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+HWI-EAS443:3:14:1681:1987#0/1  
a¥\_[aZZ\_a`aaIaR`\_`a]V\_[[G\_a`\_`PFQY[U]  
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GATTTTCATTCCACTTAGTGTTCCTCCAGTGATTGTGAA  
+HWI-EAS443:3:14:169:1123#0/1  
]Xabbaab^ab`aaaaab[a`aaab`\_[¥`\_`aaaa]aaa  
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AGAGTTCTCTGAGATCATGAAGATCTGTTCCACCATTGAA  
+HWI-EAS443:3:14:170:691#0/1  
XW¥aaaa`ba]\_aba`aaa[aaa\_^^a^`aaa\_aa\_\_`\_`\_  
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+HWI-EAS443:3:14:1716:1943#0/1  
abW\_baYabZ`\_a]aaaaaaaaa[[\_a\_^a^`a\_a^]aa`  
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CAGTGATAAAGAACAACATGATAAACAATGACCTTGACC  
+HWI-EAS443:3:14:385:1849#0/1  
^Y[NZaa` [¥Jabab`a\_[]ba[`aX`\_]`YaV¥¥G^P]UX  
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+HWI-EAS443:3:14:392:1808#0/1  
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@HWI-EAS443:3:14:394:1651#0/1  
GACCGGTTGGAATTTCTAGCATGGTGGAGCCATGGTGTC  
+HWI-EAS443:3:14:394:1651#0/1  
a^bbaa`bababbbbababbbba`aab]a]`b\_]ZPT`\_  
@HWI-EAS443:3:14:464:790#0/1  
AGCACTTCTGGTACATCTGTTTCATCCTCAAGAATCCCCT  
+HWI-EAS443:3:14:464:790#0/1  
^^\_`abaaaa¥P\_a]`X`a[`\_`[\_`\_]`T`HX^\_[Z¥\_`^  
@HWI-EAS443:3:14:482:1618#0/1  
GTATGGAGGATCTCCAGTATAAGGGAATGTGGTGCTTATG  
+HWI-EAS443:3:14:482:1618#0/1  
\_YRTa\_WRYTUZ^`\_N]V¥]OJV¥\_YXVZJ[NT¥W¥^^TB  
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+HWI-EAS443:3:14:529:1800#0/1  
a`]R]T]RY^^¥]^^]NTYH[][\_^`]^`¥^[UUMP^]Y¥  
@HWI-EAS443:3:14:52:2029#0/1  
AACACTAAGTGAATGAAAATCAAAATCCTCGAATGTTCC  
+HWI-EAS443:3:14:52:2029#0/1  
a`aa`aa`\_[a]aa`aaa`\_`aa\_aa\_\_Z¥a\_\_`\_`\_]\_]  
@HWI-EAS443:3:14:53:1905#0/1  
ATAGGACTTCTTTTTGCTCATGTTGATTCCCACTAACTTG  
+HWI-EAS443:3:14:53:1905#0/1  
`VX¥P^`\_`\_`\_`¥Va^a`¥US]]`\_`[\_`Y¥\_]`^]UP  
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+HWI-EAS443:3:14:562:570#0/1  
a^aa\_aaaaYa`\_`^`X^^`Y^\_P]\_\_[^Y\_[\_¥^[]Y  
@HWI-EAS443:3:14:586:1492#0/1  
CTCATGTTGATTCCCCTAACTTGCAGGTCCTGTAGAATC  
+HWI-EAS443:3:14:586:1492#0/1  
aaaaaaaa[\_a`aaaa\_^\_¥a`\_`U]`a`\_`\_]QX`\_`\_  
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+HWI-EAS443:3:14:718:414#0/1  
Uaba`\_`bZK]aZ\_ba`b\_]YU]baY`\_`aY[Vaa`ab`a¥  
@HWI-EAS443:3:14:754:273#0/1  
CAATGGTGAACAGATCTTCATGATCTCAGAGAACTCTTC  
+HWI-EAS443:3:14:754:273#0/1  
abaa`¥^`a\_`aaa`\_`aaaa]`\_`a\_a\_X^`\_X^]\_Z^¥U  
@HWI-EAS443:3:14:927:978#0/1  
AAAATGCCATAAGCACCACATTCCCTTATACTGGAGATCC  
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\_Z¥JTYTTZa]Y[aYYSY^[^¥]^UZTRX]UVUHT^TWSV  
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GGGACAACACTAAGTGAATGAAAATCAAAATCCTCGAAT  
+HWI-EAS443:3:14:957:277#0/1  
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CACTAAGTGAATGAAAATCAAAATCCTCGAATGTTCCCTG  
+HWI-EAS443:3:14:961:836#0/1  
a`\_`^]a]bb`\_`ba`\_`aaaa`a`\_`\_\_aa\_\_`\_`^^`\_`^\_  
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+HWI-EAS443:3:15:1152:1177#0/1  
^`^`\_`aba]\_]\_PP^Ta¥a`aa]`^`\_a[]a\_a`\_`aaa`\_`\_  
@HWI-EAS443:3:15:1188:497#0/1  
AACTTTAGCTAGGAGCATTTGCGAAAAGCTTGAACAGTCT  
+HWI-EAS443:3:15:1188:497#0/1  
aaaaababaa`ba\_a¥aaa`a`a\_\_`\_`a[a`\_`\_¥¥\_aYU\_  
@HWI-EAS443:3:15:1221:1127#0/1  
CATGGTGTATCCTGTTCCCTGTTCCATGGCTGTATGGAGGA  
+HWI-EAS443:3:15:1221:1127#0/1  
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@HWI-EAS443:3:15:1267:1599#0/1  
CTTATTTATATAGGACTTCTTTTTGCTCATGTTGATTCCC  
+HWI-EAS443:3:15:1267:1599#0/1  
abaYaa\_aa`^`^`aa\_`^`aa`\_`aaaa`\_`aa`\_`aaYaa^`  
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GTTCAAGCTTTTCGCAAATGCTCCTAGCTAAAGTTTCAAC  
+HWI-EAS443:3:15:1640:867#0/1  
aababab`\_`baaaa\_aaaa`\_a]`\_`a\_[\_aZ\_a¥aa\_a^]  
@HWI-EAS443:3:15:1652:549#0/1  
TGCCGTTGATTTCTGTTTAATGTCCAATCATAAGTCTGG  
+HWI-EAS443:3:15:1652:549#0/1  
a\_]a]^X[aa`b¥Pa\_Yaa[a`aX[TO¥QT¥a\_¥^¥N\_[Q



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+HWI-EAS443:3:15:1655:369#0/1  
abbaa\_`aaba\_\_aa`bb`aa````¥`\_\_a\_aaaa\_]\_Y  
@HWI-EAS443:3:15:1746:1205#0/1  
CCAGACTGTTCAAGCTTTTCGCAAATGCTCCTAGCTAAAG  
+HWI-EAS443:3:15:1746:1205#0/1  
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AAATGCCATAAGCACCACATTCCCTTATACTGGAGATCCT  
+HWI-EAS443:3:15:318:1406#0/1  
\_¥``abbba^abbbbab]aaaaaabaaaa`abaa\_a``  
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GAAAAAGGAGAGTAAGAGACAACATGACCAAGAAGATGGT  
+HWI-EAS443:3:15:376:616#0/1  
aXaa^Vba\_a[a[aab\_\_aaaa`\_``a`^^\_a\_\_a`Za\_Z  
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TGGTGGAACAGATCTTCATGATCTCAGAGAACTCTTCTTT  
+HWI-EAS443:3:15:438:916#0/1  
aa`F\_aaa`^a`abaa`Y``aaaaa\_a`\_\_\_a]a\_```a  
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CAGCCAAAAGCATGGAATATGATGCCGTTGCAACTACACA  
+HWI-EAS443:3:15:686:63#0/1  
a\_b`¥`b`ab\_a]aa\_b`bbaaaaa`aG\_aY`\_Xaa\_\_X\_  
@HWI-EAS443:3:15:727:74#0/1  
GCCGGTTGATTTCTGTTAATGTCCAATCATAAGTCTGGC  
+HWI-EAS443:3:15:727:74#0/1  
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CCATGGTCCAGCCAAAAGCATGGAATATGATGCCGTTGCA  
+HWI-EAS443:3:15:796:2005#0/1  
abb\_]¥P`\_¥^`bb\_\_`aba]X[\_¥ab\_[a`abaa`a[J]  
@HWI-EAS443:3:16:1060:337#0/1  
GGCTGTATGGAGGATCTCCAGTATAAGGGAATGTGGTGCT  
+HWI-EAS443:3:16:1060:337#0/1  
^^abaR`Q¥`a¥`[T¥TR`^¥P`\_PP`aaR^XaU]^UVQV  
@HWI-EAS443:3:16:1275:2021#0/1  
CTTGTGAATTCAAATGTCCCTGTCTTATTTATATAGGACT  
+HWI-EAS443:3:16:1275:2021#0/1  
ab^aZX¥```aaa^]V^]X]W]a\_\_a`\_```\_]X¥^^]  
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CCTGTTCCCTGTTCCATGGCTGTATGGAGGATCTCCAGTAT  
+HWI-EAS443:3:16:1305:795#0/1  
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@HWI-EAS443:3:16:1373:789#0/1  
GCATCATATTCCATGCTTTTGGCTGGACCATGGGCTGGCA  
+HWI-EAS443:3:16:1373:789#0/1  
a`^`\_`aaaa\_\_a\_[```\_\_\_[\_\_\_[^^¥ZZZ^\_VW[\_W[  
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GCACCACATTCCCTTATACTGGAGATCCTCCATACAGCCA

+HWI-EAS443:3:16:1456:444#0/1  
a\_\_`W]aa`a`Ya\_aa`\_`¥Q¥[[Q[^`URX[YR]]SQ^  
@HWI-EAS443:3:16:1578:510#0/1  
GACTTCTTTTTGCTCATGTTGATTCCCCTAACTTGCAGG  
+HWI-EAS443:3:16:1578:510#0/1  
a`V`babaabab¥a\_\_aa\_``a`XTX`[`a\_]\_]`ZYa^  
@HWI-EAS443:3:16:161:181#0/1  
AGAAAAAGGAGAGTAAGAGACAACATGACCAAGAAGATGG  
+HWI-EAS443:3:16:161:181#0/1  
ab\_]a`aba\_`^a\_a`aaa`aa`\_\_a`\_]\_\_\_\_`T]\_^^\_  
@HWI-EAS443:3:16:166:333#0/1  
AGCGCAAATGCCATAAGCACCACATTCCTTATACTGGA  
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Vabaaa`aaa`a\_`a\_aaaa\_a\_``a`\_\_\_\_`\_YaZ\_\_W\_  
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GTCTTATTTATATAGGACTTCTTTTTGCTCATGTTGATTC  
+HWI-EAS443:3:16:410:210#0/1  
a\_aaa`aaa`a`a`a`Yaa\_a`aa\_``\_\_\_\_`\_[\_\_]^]\_  
@HWI-EAS443:3:16:443:1093#0/1  
GCCGGTTGATTTCTGTTAATGTCCAATCATAAGTCTGGC  
+HWI-EAS443:3:16:443:1093#0/1  
aaa]a^`a^[aa\_^][`aa`a\_X]``\_]Z^^a\_[UY\_\_[\_  
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CAACACTAAGTGAATGAAAATCAAATCCTCGAATGTTC  
+HWI-EAS443:3:16:46:39#0/1  
aa\_¥]\_`^[]V^^^a\_a^QZ\_\_^[^Y^\_\_^`^^]]^Z]\_  
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ATTTCTAGCATGGTGGAGGCCATGGTGTCTAGGGCCCGGA  
+HWI-EAS443:3:17:1072:628#0/1  
a`X`aabbbaaba^aa\_aaa\_`a`^Y`^`^`\_\_a`Z^]a`Y  
@HWI-EAS443:3:17:1112:486#0/1  
CAAGGTCATTGTTTATCATGTTGTTCTTTATCACTGTTAC  
+HWI-EAS443:3:17:1112:486#0/1  
a`abbaa`bbb[aa\_aaab`abaa`baaaa\_a`ab`a`]  
@HWI-EAS443:3:17:1243:37#0/1  
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+HWI-EAS443:3:17:1243:37#0/1  
ab]a\_`]Y]`ZYa¥aaZ`aa¥V]W\_\_aXPU^]\_^]aZZ^Y  
@HWI-EAS443:3:17:1442:1159#0/1  
TAAGCACCACATTCCTTATACTGGAGATCCTCCATACAG  
+HWI-EAS443:3:17:1442:1159#0/1  
aaa\_YaaaaYa¥Z\_]¥baZ\_\_\_\_a`a`^XXVR^]0¥``\_]\_^  
@HWI-EAS443:3:17:150:598#0/1  
CTTCTTTTTGCTCATGTTGATTCCCCTAACTTGCAGGTC  
+HWI-EAS443:3:17:150:598#0/1  
`bbbbbbba^bbabbbaaab\_`aaaaabaa`a`\_aaaa\_Ya  
@HWI-EAS443:3:17:1585:1685#0/1  
CAGACTTATGATTGGACATTAACAGAAATCAACCGGCAG  
+HWI-EAS443:3:17:1585:1685#0/1  
X¥bbbaa¥¥a````¥U`aa`b`aaaa`a^¥^b]Y\_]Vbb

@HWI-EAS443:3:17:198:584#0/1  
GTTCTTCAATGGTGAACAGATCTTCATGATCTCAGAGAA  
+HWI-EAS443:3:17:198:584#0/1  
`aab`aa\_a`a`^b\_aa¥a\_```a\_aa^aa`aaaa\_^[\_a\_`  
@HWI-EAS443:3:17:260:1449#0/1  
ACTTTGTTGAACTTTAGCTAGGAGCATTTGCGAAAAGCT  
+HWI-EAS443:3:17:260:1449#0/1  
abaa^¥`aa`¥^`aa``\_aa`¥^[Y[¥\_\_\_\_`\_\_\_\_^`\_\_^`  
@HWI-EAS443:3:17:30:152#0/1  
TGTATCCTGTTCTGTTCCATGGCTGTATGGAGGATCTCC  
+HWI-EAS443:3:17:30:152#0/1  
ab\_]baabaa`aab\_aa`\_[a``^ZGZTP^R\_`SPYQ[B  
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GAAAATCAAAATCCTCGAATGTTCTGGCGATGATTACAT  
+HWI-EAS443:3:17:442:391#0/1  
`^`a``^a`aaaa\_a`aaa^`]\_`a\_\_\_\_\_`]Z^]Y\_^  
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GGACTTCTTTTTGCTCATGTTGATTCCCCTAACTTGCAG  
+HWI-EAS443:3:17:493:214#0/1  
a`RXa``\_aaaaa\_¥``a^`a^\_\_a`]`^a]^X`a^^\_  
@HWI-EAS443:3:17:621:1684#0/1  
GGGGACAACACTAAGTGAATGAAAATCAAAATCCTCGAA  
+HWI-EAS443:3:17:621:1684#0/1  
`a\_aa¥T`a\_a\_L\_VRY`]a\_``aUb\_U[aaaT\_¥[GX`\_  
@HWI-EAS443:3:17:666:1091#0/1  
TGCCGTTGATTTCTGTTAATGTCCAATCATAAGTCTGG  
+HWI-EAS443:3:17:666:1091#0/1  
aababb^abaaaaaaa\_aaaaaa\_aaaaa`a\_a``Z^]\_^  
@HWI-EAS443:3:17:881:151#0/1  
AAAAAGGAGAGTAAGAGACAACATGACCAAGAAGATGGTC  
+HWI-EAS443:3:17:881:151#0/1  
ab]`\_bbba]bYYabaaaa\_`^`]aaa``\_\_[`a^``^0¥  
@HWI-EAS443:3:17:921:721#0/1  
GTCCCTGTCTTATTTATATAGGACTTCTTTTTGCTCATGT  
+HWI-EAS443:3:17:921:721#0/1  
a]¥]`aa`\_aa\_aaa\_a\_a\_\_¥\_]\_a^a`a`a\_¥`\_\_\_\_`]  
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+HWI-EAS443:3:17:92:786#0/1  
aa\_abb\_b`b`]aa[b`aa`abbb`a`baa\_aaa  
@HWI-EAS443:3:17:981:771#0/1  
CAAAGGGATTGAGGGATTACAAAGTCTTCCCGATAATC  
+HWI-EAS443:3:17:981:771#0/1  
a\_Ybbbb\_aaaba`\_a`ba`aaaa¥``a`\_\_`a^a\_^Z  
@HWI-EAS443:3:17:988:346#0/1  
CACCATGGCCTCCACCATGCTAGAAATCCAACCGGTCTC  
+HWI-EAS443:3:17:988:346#0/1  
ab`aa`\_\_a`aa`R]]a\_a````\_]a\_\_\_\_\_`^Y`\_Q¥^\_  
@HWI-EAS443:3:18:1009:1879#0/1  
CACATTCCTGAAGTCTGCTTAAAATGGGAGCTAATGGATG

+HWI-EAS443:3:18:1009:1879#0/1  
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CAAGGTCATTGTTTATCATGTTGTTCTTTATCACTGTTAC  
+HWI-EAS443:3:18:142:1590#0/1  
ababZF\_a`aaVW¥)``a\_¥``a[`a\_a\_a`a`a`aX\_\_`  
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CAAAATGCCATAAGCACCACATTCCTTATACTGGAGATC  
+HWI-EAS443:3:18:1563:1525#0/1  
`^^`PX\_a`¥S^Vaab`Y[KP]ZH\_[`]¥`ZJOV`^`L^T  
@HWI-EAS443:3:18:162:1098#0/1  
GTTGGAATTTCTAGCATGGTGGAGGCCATGGTGTCTAGGG  
+HWI-EAS443:3:18:162:1098#0/1  
aaXa^a`^`¥a``Xa`¥ZRY^`XYP]]^RTXPSSZUOTPW  
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+HWI-EAS443:3:18:166:413#0/1  
\_b^ba`a`aaaaaa\_aab`¥aY`a\_``\_aa]W¥¥¥S¥¥^  
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CAAAATGCCATAAGCACCACATTCCTTATACTGGAGATC  
+HWI-EAS443:3:18:211:1762#0/1  
X`\_bb]]b`bbabaaabbaaba`Y`^b¥baaba\_`a]aaa  
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+HWI-EAS443:3:18:313:1527#0/1  
aa`aaa`a`aaaa`\_`\_`^`a`a\_a\_\_a\_`^``^¥]X  
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GTCGCCAGACTTATGATTGGACATTAACAGAAATCAACC  
+HWI-EAS443:3:18:519:445#0/1  
a^^a\_`S\_]V\_`[^Z]aYOUR]Y\_`]]`\_`X¥\_`ZM^`¥[  
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aaaaaabba\_aaaa`a\_aa`\_`\_`^`\_`^ZU^\_¥UVV^VUY\_  
@HWI-EAS443:3:18:628:1543#0/1  
CACTAAGTGAATGAAAATCAAATCCTCGAATGTTCCCTG  
+HWI-EAS443:3:18:628:1543#0/1  
aaa^\_QX\_V\_Y\_bb\_a\_`\_`^`b`ba^aa`]aab^aZaY]`  
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+HWI-EAS443:3:18:682:1245#0/1  
QZ\_]`[aabYbUUP^[¥a^a`Y\_WRWa¥Vb]Sa^aa`¥b[  
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GAAAAAGGAGAGTAAGAGACAACATGACCAAGAAGATGGT  
+HWI-EAS443:3:18:831:258#0/1  
a\_\_`^Z`\_]`^`\_Z\_^\_\_`\_X^^`\_Z^]¥X¥X\_ZZ]^XXWV  
@HWI-EAS443:3:19:1086:1108#0/1  
TGCCAGCCCATGGTCCAGCCAAAAGCATGGAATATGATGC  
+HWI-EAS443:3:19:1086:1108#0/1  
`]b\_PWaa`abba\_a\_a`aaa`^]`^¥\_`^`\_\_a`^a\_\_`\_\_

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^aaba\_U\_`abaZ^^`a\_FRX^`F¥`YXXQ]RU¥FO]^XU  
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ACGGCATCATATTCCATGCTTTTGGCTGGACCATGGGCTG  
+HWI-EAS443:3:19:1143:375#0/1  
a`X`^a\_]`^aa^aY`^a`YX^Z[\_\_\_`MUTPSWUVZIBB  
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AGGATCTCCAGTATAAGGGAATGTGGTGTATGGCATT  
+HWI-EAS443:3:19:1178:625#0/1  
aba^`aaa\_]`^[[a`a¥]¥\_aaZa`X`Z\_\_\_\_\_aaTZ\_^\_  
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ATGGTGAACAGATCTTCATGATCTCAGAGAACTCTTCTT  
+HWI-EAS443:3:19:1482:1231#0/1  
[]\_WVPUZa[[\_[¥[]`\_a`a]JL^^a¥\_¥a\_Sa^a^Sa^  
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AGGACTTCTTTTGTCTCATGTTGATCCCACTAACTTGCA  
+HWI-EAS443:3:19:1598:50#0/1  
`Y¥a`babab`abaaaa`aV]Xa\_`\_Z`]]¥\_]a`[XaY`  
@HWI-EAS443:3:19:1610:373#0/1  
CGGGCCCTAGACACCATGGCCTCCACCATGCTAGAAATTC  
+HWI-EAS443:3:19:1610:373#0/1  
a`]WZ\_[aab[N^a^[X`\_\_^a[Y[^`^`]aXaa`^]UX[Q  
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+HWI-EAS443:3:19:1699:332#0/1  
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CGGTTGATTTCTGTTAATGTCCAATCATAAGTCTGGCGA  
+HWI-EAS443:3:19:207:901#0/1  
aba^`b`aa`aab`abbbbT\_``aaaba\_X`V^`aa`[\_  
@HWI-EAS443:3:19:226:980#0/1  
CAATGGTGAACAGATCTTCATGATCTCAGAGAACTCTTC  
+HWI-EAS443:3:19:226:980#0/1  
[\_S\_^\_Z[Z`\_S\_SabbZb[Y[`a`abbZbS]\_Z]``Vb\_  
@HWI-EAS443:3:19:278:584#0/1  
GTCTTATTTATATAGGACTTCTTTTGTCTCATGTTGATTC  
+HWI-EAS443:3:19:278:584#0/1  
¥I\_bYU`¥aba]b````T]a]`a\_aa^a\_aa^`^`\_\_\_\_^  
@HWI-EAS443:3:19:362:156#0/1  
TTCAAATGTCCCTGTCTTATTTATATAGGACTTCTTTTGT  
+HWI-EAS443:3:19:362:156#0/1  
a\_aa\_``a^`\_a\_a]^a\_`^`\_\_\_\_^[¥]^\_¥XX^^][[]Y  
@HWI-EAS443:3:19:38:1312#0/1  
GCCGGTTGATTTCTGTTAATGTCCAATCATAAGTCTGGC  
+HWI-EAS443:3:19:38:1312#0/1  
a`ab`\_a``aaaa`\_ba`]ba]\_]\_aaaaaaaa^^\_a[^^  
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+HWI-EAS443:3:19:453:235#0/1  
aaaaaY\_a\_a`Y^a\_\_aa\_\_^`NQZ[WQ[^VLJRUXUURB  
@HWI-EAS443:3:19:766:536#0/1  
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+HWI-EAS443:3:19:766:536#0/1  
a`]¥]aa`a`a`\_`a\_a`\_`\_]\_`a\_]\_]\_\_\_\_XV\_]`  
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CAACACTAAGTGAATGAAAATCAAATCCTCGAATGTTC  
+HWI-EAS443:3:19:829:388#0/1  
\_Y^bbY[\_[ZTSaUa^¥Yb^a^X`]abaTYa\_¥a]ba¥`Q  
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+HWI-EAS443:3:19:883:784#0/1  
aa[\_aaa`^\_[aI\_]\_[\_¥N`^`\_^]\_X`^UT¥]\_WX  
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+HWI-EAS443:3:19:927:981#0/1  
aaaX`a]a^bX\_aa`aab\_ab\_^¥UaGaa`b^\_AY]aZ^  
@HWI-EAS443:3:19:997:875#0/1  
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+HWI-EAS443:3:19:997:875#0/1  
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@HWI-EAS443:3:1:1100:1769#0/1  
ATAGGACTTCTTTTTGCTCATGTTGATTCCCCTAACTTG  
+HWI-EAS443:3:1:1100:1769#0/1  
aab`aa^a\_^b`aa\_X`]\_\_`a`aa`¥NPXYM[\_\_\_Z`BB  
@HWI-EAS443:3:1:1143:446#0/1  
TGGGACAACACTAAGTGAATGAAAATCAAATCCTCGA  
+HWI-EAS443:3:1:1143:446#0/1  
`]aaaa^`^`^`\_`\_`Y\_a[\_aa`\_^`¥`^`\_`VXW¥BB  
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GCTGCCGTTGATTTCTGTTTAAATGTCCAATCATAAGTCT  
+HWI-EAS443:3:1:1694:535#0/1  
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ab\_bbb`bVbbaba^\_^aaaWaabYa`a\_aaaaa`aSbB  
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+HWI-EAS443:3:1:268:757#0/1  
\_¥QY¥Q\_^ab]a`]aZ`]^JaT¥MRWGZ^UUUI[aaaBBB  
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GCGAAAATGCCATAAGCACCATTCCTTATACTGGAG  
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TAAGCACCATTCCTTATACTGGAGATCCTCCATACAG  
+HWI-EAS443:3:1:639:201#0/1  
aaRX`ZP¥^W]`]¥Z\_aa\_Wa¥Wa\_KX[PWSNLWQZBBBB



+HWI-EAS443:3:20:632:1330#0/1  
aa`baabbb¥baa^]aa]aaaaaaaa\_a`\_]\_\_`\_a^`XU\_  
@HWI-EAS443:3:20:903:1567#0/1  
AGCGCAAAATGCCATAAGCACCACATTCCCTTATACTGGA  
+HWI-EAS443:3:20:903:1567#0/1  
Y¥[P^baaa`Ubaaab\_Y\_a[P[\_`[Z`]¥\_`a^b0\_`Y]  
@HWI-EAS443:3:21:1008:1115#0/1  
CAATGGTGGAACAGATCTTCATGATCTCAGAGAACTCTTC  
+HWI-EAS443:3:21:1008:1115#0/1  
^[¥]baYaaa`aba\_aabaaaa`aa`a`^``a\_``\_`a\_^  
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TAGGACTTCTTTTTGCTCATGTTGATTCCCCTAACTTGC  
+HWI-EAS443:3:21:1036:968#0/1  
abbb\_\_bbaaab¥a]baaaaaZaa``aa^WaY`\_a`[\_`\_\_  
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+HWI-EAS443:3:21:1051:1213#0/1  
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@HWI-EAS443:3:21:1125:464#0/1  
CTTTGTTGAAACTTTAGCTAGGAGCATTTCGAAAAGCTT  
+HWI-EAS443:3:21:1125:464#0/1  
abbababbb]baabaaaabb`a`aa`aaaa`aaaa`a\_``  
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+HWI-EAS443:3:21:1177:812#0/1  
aa\_aaaaaaaaaa\_aa``^`\_aa\_\_\_\_`\_aa`\_`\_^]Z\_  
@HWI-EAS443:3:21:1225:22#0/1  
AATCAAAATCCTCGAATGTTCCCTGGCGATGATTACATATA  
+HWI-EAS443:3:21:1225:22#0/1  
ab\_T`^a\_a\_Z^XZ\_`aa`\_¥Z]a¥K\_^ZS¥\_`W^¥]Z^^  
@HWI-EAS443:3:21:1380:18#0/1  
GGTGTATCCTGTTCCCTGTTCCATGGCTGTATGGAGGATCT  
+HWI-EAS443:3:21:1380:18#0/1  
ab]b^`b\_aaa\_\_W\_ba\_a[¥¥a`ZS\_]GQRPYNV\_NTGW  
@HWI-EAS443:3:21:1440:1947#0/1  
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+HWI-EAS443:3:21:1440:1947#0/1  
a[^\_a\_aaaaaaaaa`a\_a\_Y\_^\_\_\_\_`\_\_`\_\_^^Z`]`Y¥  
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CTGGGGACAACACTAAGTGAATGAAAATCAAAATCCTCG  
+HWI-EAS443:3:21:1514:1329#0/1  
aS```ZW\_`XX^VZYITNaZR]`Y`aVP^`YM¥T]RH]W¥  
@HWI-EAS443:3:21:1525:575#0/1  
CTCGATACTGAATCTTGGACAAAAGAAATACACCAAGACA  
+HWI-EAS443:3:21:1525:575#0/1  
ababaaaabaaaa`abab\_^a`a`a\_\_a\_a]\_\_X``a`W]  
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TTTGAATTCACAAGCTTTTTTATCGCTATGGATTTGTGG  
+HWI-EAS443:3:21:1616:485#0/1  
¥R`a]`^U^¥U\_¥^a]¥[aa^a``U¥Y[¥THHY[^ZFRSB



@HWI-EAS443:3:21:1648:1056#0/1  
TTCCAGCGCAAATGCCATAAGCACCACATTCCCTTATAC  
+HWI-EAS443:3:21:1648:1056#0/1  
aa`a\_\_^a^`a`\_a]]\_\_`^`[\`Y]`Y^\_AYW\_^]^^X  
@HWI-EAS443:3:21:1702:465#0/1  
ATTCGAGGATTTTGATTTTCATTCCACTTAGTGTTGTC  
+HWI-EAS443:3:21:1702:465#0/1  
ab\_^`bb`\_baaa\_aaa`¥a`a]^^Zaa]a]`[a\_¥]X]  
@HWI-EAS443:3:21:370:1860#0/1  
GTGGGAATCAACATGAGCAAAAAGAAGTCCTATATAAATA  
+HWI-EAS443:3:21:370:1860#0/1  
`\_aYWU\_aaaba]L^]]ab`\_]`Zaa^[\_a^a^`b\_a^`  
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GGAACATTTCGAGGATTTTGATTTTCATTCCACTTAGTGTT  
+HWI-EAS443:3:21:435:1010#0/1  
aaab\_a¥[X\_YbWKaaaa^abaaZL^b\_\_W¥UaX[aS]]Z  
@HWI-EAS443:3:21:470:1053#0/1  
CAAAATGCCATAAGCACCACATTCCCTTATACTGGAGATC  
+HWI-EAS443:3:21:470:1053#0/1  
a`M`¥\_Saaa`Y]a`\_a\_W\_\_\_\_S]\_[\_^\_\_\_\_V]]Z`ZX\_  
@HWI-EAS443:3:21:563:1568#0/1  
TGTTTCATCTCAAGAATTCCCCTTTGGCTTGTGTTGAGAA  
+HWI-EAS443:3:21:563:1568#0/1  
^[0\_b¥W`\_]ba^`^`X^Zaba`aZT\_]\_\_Y\_R^^OQT^  
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CTGGGGACAACACTAAGTGAATGAAAATCAAAATCCTCG  
+HWI-EAS443:3:21:642:275#0/1  
ab\_a0JOS^a`aaab]\_LX¥S^aaY[Z[`\_b^Z\_]`\_a\_\_  
@HWI-EAS443:3:21:651:154#0/1  
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+HWI-EAS443:3:21:651:154#0/1  
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CAAAATGCCATAAGCACCACATTCCCTTATACTGGAGATC  
+HWI-EAS443:3:21:661:245#0/1  
a`a`aaabbaa]aaaa\_aaa`a`\_\_`aaab`\_\_\_\_\_]]  
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CTGGGGACAACACTAAGTGAATGAAAATCAAAATCCTCG  
+HWI-EAS443:3:21:752:574#0/1  
a`^`[¥V`\_]aaa\_\_\_\_`Wa\_¥Q¥a\_\_\_\_^\_a\_\_\_\_^`]^  
@HWI-EAS443:3:21:766:246#0/1  
GAAATCTATTAGCCTTCCTGACTCATTAGCTGTTAGACCA  
+HWI-EAS443:3:21:766:246#0/1  
a^\_¥a`abaaa`^`\_\_\_\_aa^Z\_]^]`\_W\_\_TUITYPGW  
@HWI-EAS443:3:21:824:1275#0/1  
TTCTAGCATGGTGGAGGCCATGGTGTCTAGGGCCCGGATT  
+HWI-EAS443:3:21:824:1275#0/1  
a`aaa\_aa\_\_TY`^¥^a`^`^]`P]R¥T[[^¥^XX¥`VS]  
@HWI-EAS443:3:22:1035:374#0/1  
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+HWI-EAS443:3:22:1035:374#0/1  
aa^ab^`\_b`aaaaab\_`a`\_]\_a``[¥`\_a\_¥^\_]N  
@HWI-EAS443:3:22:1067:1664#0/1  
GGACAACACTAAGTGAATGAAAATCAAATCCTCGAATG  
+HWI-EAS443:3:22:1067:1664#0/1  
¥VJT¥ZZXaZZXY^^aX^Z]Z\_Z\_Z¥X\_a`VVT\_Ta\_a  
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CAGTGATAAAGAACAACATGATAAACAATGACCTTGGACC  
+HWI-EAS443:3:22:1076:1949#0/1  
\_\_\_¥R\_`^aYS\_a\_\_VTWa`[¥][[P`WY]¥YVFYZ`WV  
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+HWI-EAS443:3:22:117:688#0/1  
^`U\_PO[aa^¥aaaa```WGLR]`a`¥a`aaa^PU^\_aa  
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+HWI-EAS443:3:22:1220:1054#0/1  
abb`¥^aab`bbba^a`babaab^bbbaaaaaab\_aaba  
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+HWI-EAS443:3:22:1264:1061#0/1  
^]`^`aa`aaa`aaa^^aa`a\_\_a\_a`^`aa`a`a`\_`X\_\_  
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GGACAACACTAAGTGAATGAAAATCAAATCCTCGAATG  
+HWI-EAS443:3:22:1275:546#0/1  
aaa\_``\_a\_aa`aX`a`aaa`aaaa^\_``\_aYX^[]^\_^\_  
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GACCGTTGGAATTTCTAGCATGGTGGAGCCATGGTGTC  
+HWI-EAS443:3:22:1492:193#0/1  
[^ZZ^]ab]^]X¥aZVTYQVBBBBBBBBBBBBBBBB  
@HWI-EAS443:3:22:16:1386#0/1  
GGTGTATCCTGTTCCCTGTTCCATGGCTGTATGGAGGATCT  
+HWI-EAS443:3:22:16:1386#0/1  
aa\_a^`Z]`ZXY]¥]``\_a[LU`TY\_YMKLKTJV]BBBB  
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+HWI-EAS443:3:22:19:529#0/1  
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+HWI-EAS443:3:22:259:1237#0/1  
^aa`a`a]aa``\_[a\_aa\_¥\_\_`aa^`¥`\_a`\_Sa\_\_\_\_^  
@HWI-EAS443:3:22:274:466#0/1  
CTCTGTGTCTTGTGAATTAGTCATCATCTTTCTCACAACA  
+HWI-EAS443:3:22:274:466#0/1  
a`babab`aab`¥^X]aaZ^`b`b`[aabbb\_aabab\_[a  
@HWI-EAS443:3:22:282:1189#0/1  
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+HWI-EAS443:3:22:282:1189#0/1  
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@HWI-EAS443:3:22:314:46#0/1  
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+HWI-EAS443:3:22:314:46#0/1  
aUXYGYRX\_¥]^aZ`Za]ZYUWZVSR¥[TZV[[W^]XV^  
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+HWI-EAS443:3:22:454:1619#0/1  
^a`b`bb^`b¥¥abaa\_^baaT```ab`aabb]a\_b¥[Z  
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+HWI-EAS443:3:22:577:1314#0/1  
\_ZXQX\_aa\_[a^`S^¥UX^^¥`¥^¥NXNPKY^SZZ`TBB  
@HWI-EAS443:3:22:677:1751#0/1  
ACCGGTTGGAATTTCTAGCATGGTGGAGGCCATGGTGTCT  
+HWI-EAS443:3:22:677:1751#0/1  
aa^R]^aa¥aaaa]^]¥]a]¥WSYV`¥[Y]VSUSGYVUN  
@HWI-EAS443:3:22:705:1756#0/1  
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+HWI-EAS443:3:22:705:1756#0/1  
a]W\_\_Z^aVTVPJRT\_XZa\_^X[HQ[[TO[[PT\_]DPP\_¥  
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GCGCAAATGCCATAAGCACCATTCCTTATACTGGAG  
+HWI-EAS443:3:22:709:2002#0/1  
a`]]`\_bb`b]babaabaa\_baaaa\_]`aab\_aa]W]^  
@HWI-EAS443:3:22:855:1852#0/1  
ACTGTTCAAGCTTTTCGCAAATGCTCCTAGCTAAAGTTTC  
+HWI-EAS443:3:22:855:1852#0/1  
aa\_a]`aa`aa\_^\_¥aaa`\_^]\_^\_\_`\_]^a\_`W]^  
@HWI-EAS443:3:23:1063:102#0/1  
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+HWI-EAS443:3:23:1063:102#0/1  
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@HWI-EAS443:3:23:1079:1163#0/1  
TATACTGGAGATCCTCCATACAGCCATGGAACAGGAACAG  
+HWI-EAS443:3:23:1079:1163#0/1  
aa`aa[¥¥`b`]`aa]abWaaaXa]a]S[^YX¥U`\_\_`  
@HWI-EAS443:3:23:1193:428#0/1  
CTGCCGTTGATTTCTGTTAATGTCCAATCATAAGTCTG  
+HWI-EAS443:3:23:1193:428#0/1  
aaa`]`a¥``]`aa[`a]a\_S]\_a]^]¥¥\_\_`]^`WWZ¥  
@HWI-EAS443:3:23:1358:636#0/1  
AGCGCAAATGCCATAAGCACCATTCCTTATACTGGGA  
+HWI-EAS443:3:23:1358:636#0/1  
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@HWI-EAS443:3:23:1376:1783#0/1  
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+HWI-EAS443:3:23:1376:1783#0/1  
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+HWI-EAS443:3:23:1586:742#0/1  
aaaba]a^`aaaa`aaaa`¥a]]aaaaa` `\_\_a\_\_aY  
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GAAAAAGGAGAGTAAGAGACAACATGACCAAGAAGATGGT  
+HWI-EAS443:3:23:1716:180#0/1  
¥Xa`X`ab^aZ`\_]\_Ta`QU\_[YS[\_¥J]V¥`Z`[UU]X  
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CATGGTCCAGCCAAAAGCATGGAATATGATGCCGTTGCAA  
+HWI-EAS443:3:23:301:250#0/1  
ab` `a^bX[^[\_a]`^SaaYa`^`]a\_a\_Y\_\_\_`0FVX]^  
@HWI-EAS443:3:23:51:1545#0/1  
CTGTTTAATGTCCAATCATAAGTCTGGCGACCTTGAGTTA  
+HWI-EAS443:3:23:51:1545#0/1  
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@HWI-EAS443:3:23:571:854#0/1  
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+HWI-EAS443:3:23:571:854#0/1  
[^[b\_\_QY]]ab`YYbabbbbaK[KVRWaNa\_b` `S\_SWa`  
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AAAAAGCTTGTGAATTCAAATGTCCCTGTCTTATTTATAT  
+HWI-EAS443:3:23:63:164#0/1  
`¥¥\_¥abaa`R\_`^`a\_R]` `a]` [[^` [a`\_^¥\_`^`]^\_  
@HWI-EAS443:3:23:712:1959#0/1  
CAAAGGGATTGAGGGATTACAAAGTCTTCCCCGATAATC  
+HWI-EAS443:3:23:712:1959#0/1  
abb^R]Sa`\_b\_[]`\_\_[\_^Waa\_YOa`\_aa`aa^a]\_\_^  
@HWI-EAS443:3:23:770:1962#0/1  
AAGAAGAGTTCTCTGAGATCATGAAGATCTGTTCCACCAT  
+HWI-EAS443:3:23:770:1962#0/1  
\_\_^`aaa[Vaba¥^Y\_VNZaa¥X\_PZa\_\_]aZPWW`\_^¥¥  
@HWI-EAS443:3:23:995:556#0/1  
TGCCGGTTGATTTCTGTTTAATGTCCAATCATAAGTCTGG  
+HWI-EAS443:3:23:995:556#0/1  
a`\_^\_ab[a\_[\_a\_]`a\_aa¥Y^a]Y^VV]^\_]Z\_WYY\_]  
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+HWI-EAS443:3:24:1164:1760#0/1  
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GGTTGGAATTTCTAGCATGGTGGAGCCATGGTGTCTAGG  
+HWI-EAS443:3:24:1187:270#0/1  
\_^aaaa\_]^[a\_RJK¥Xa`Xa\_^a^W¥^YaYGTH[GW]Q  
@HWI-EAS443:3:24:1209:1078#0/1  
GCCGGTTGATTTCTGTTTAATGTCCAATCATAAGTCTGGC  
+HWI-EAS443:3:24:1209:1078#0/1  
XZ\_\_Z¥`b\_bab[Ubabbbba^Y^a`V^]bbaba^` `ba^  
@HWI-EAS443:3:24:131:52#0/1  
CTTTAGCTAGGAGCATTGCGAAAAGCTTGAACAGTCTGG  
+HWI-EAS443:3:24:131:52#0/1  
aba\_[\_b`\_`aQ¥¥a`P\_aabaa` `]`aZ`\_]`¥` `Z`\_^Q

@HWI-EAS443:3:24:1423:473#0/1  
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+HWI-EAS443:3:24:1423:473#0/1  
ab`b\_\_a`bba]baaaaaaaaa[aa\_\_a`aaaaaa`a]YUa  
@HWI-EAS443:3:24:146:380#0/1  
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+HWI-EAS443:3:24:146:380#0/1  
abbb\_abbbaabaabaabaab`ab`abaaaaaaaa^aa`\_  
@HWI-EAS443:3:24:1496:65#0/1  
AGCCCATGGTCCAGCCAAAAGCATGGAATATGATGCCGTT  
+HWI-EAS443:3:24:1496:65#0/1  
`aaaababaaZaaaQ\_`a\_^ZX`ba\_\_`^`\_\_\_¥^Y`YU  
@HWI-EAS443:3:24:1563:1973#0/1  
ATCCTGTTCTGTTCCATGGCTGTATGGAGGATCTCCAGT  
+HWI-EAS443:3:24:1563:1973#0/1  
\_aa\_]`^\_aaa¥baa^P[a\_¥\_]FFYNQR¥YZPPT[SR]¥  
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TGCCGGTTGATTTCTGTTTAATGTCCAATCATAAGTCTGG  
+HWI-EAS443:3:24:1654:1311#0/1  
VaSYbaY^\_R¥\_[]U¥Ma]YP^aX^`Wa`\_Vab`Zbaba`  
@HWI-EAS443:3:24:169:512#0/1  
ATTAGCCACAAATCCATAGCGATAAAAAAAGCTTGTGAAT  
+HWI-EAS443:3:24:169:512#0/1  
aaa`Tabaa^^a`a`a`aa```aaa\_aa``\_[]a[aa`a  
@HWI-EAS443:3:24:16:205#0/1  
CTTCAATGGTGAACAGATCTTCATGATCTCAGAGAACTC  
+HWI-EAS443:3:24:16:205#0/1  
abbabbbb\_bbbbbbb`abbbabba`aa\_aaaa`a`aa  
@HWI-EAS443:3:24:181:174#0/1  
ACGGCATCATATCCATGCTTTTGGCTGGACCATGGGCTG  
+HWI-EAS443:3:24:181:174#0/1  
aaa`a^[\_a\_a[ZZ`\_^`¥¥^`¥\_¥¥SWTTWYUS  
@HWI-EAS443:3:24:266:1426#0/1  
GATCTCCAGTATAAGGGAATGTGGTGCTTATGGCATTTTG  
+HWI-EAS443:3:24:266:1426#0/1  
a`[a`\_`\_XY[V0]JTTZVUYPUa]TN]\_`^`^`[\_`YX\_]`]]  
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+HWI-EAS443:3:24:311:1018#0/1  
aabbaaababaa`a`aa\_aaaN^ZU^\_]aU\_X¥^]Y]U  
@HWI-EAS443:3:24:335:1985#0/1  
ATTTCTAGCATGGTGGAGGCCATGGTGTCTAGGGCCCGGA  
+HWI-EAS443:3:24:335:1985#0/1  
a`aaa`aaaa\_a`P`T]a¥XY\_^^ZP¥M\_T¥VSUZ\_W¥¥S  
@HWI-EAS443:3:24:338:1752#0/1  
ATCAACATGAGCAAAAAGAAGTCTATATAAATAAGACAG  
+HWI-EAS443:3:24:338:1752#0/1  
`\_\_Kb`\_\_^Iaaaa^¥[\_aFK¥`Ya^a`\_]`\_¥\_\_ZB  
@HWI-EAS443:3:24:418:1342#0/1  
GTTGGAATTTCTAGCATGGTGGAGGCCATGGTGTCTAGGG

+HWI-EAS443:3:24:418:1342#0/1  
a^a`a¥MY^][^¥V]\_Z`XUVPU[¥^¥]UYPFQP¥PUSTU  
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+HWI-EAS443:3:24:610:440#0/1  
abbbabaaaaab]a``]a\_`a]a]S¥TaW¥^U¥]Y^\_`W¥  
@HWI-EAS443:3:24:707:79#0/1  
CAAAATGCCATAAGCACCACATTCCTTATACTGGAGATC  
+HWI-EAS443:3:24:707:79#0/1  
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@HWI-EAS443:3:24:752:519#0/1  
GCCGGTTGATTTCTGTTAATGTCCAATCATAAGTCTGGC  
+HWI-EAS443:3:24:752:519#0/1  
a`abbabb`abbabbabaaab`\_`a`aaaa`aa^``a\_\_  
@HWI-EAS443:3:24:765:1011#0/1  
GGTGTATCCTGTTCTGTTCCATGGCTGTATGGAGGATCT  
+HWI-EAS443:3:24:765:1011#0/1  
J^S\_¥W\_b`\_¥¥¥b\_bba¥a\_\_¥b\_\_¥[M\_UTMFUYUUTZ  
@HWI-EAS443:3:24:766:630#0/1  
TTGAATTCACAAGCTTTTTTATCGCTATGGATTTGTGGC  
+HWI-EAS443:3:24:766:630#0/1  
`a¥ba¥\_aY^¥W]`]a]X`\_`a\_aaT¥]S[H¥J]`[WFUJN  
@HWI-EAS443:3:24:791:470#0/1  
GAGTTCTCAATGGTGGAACAGATCTTCATGATCTCAGAG  
+HWI-EAS443:3:24:791:470#0/1  
`a¥W]]`Z¥aZ`UZVaaaaWV[^P]`V^RT]]^Z^\_]^\_^  
@HWI-EAS443:3:24:927:1435#0/1  
GTATCCTGTTCCCTGTTCCATGGCTGTATGGAGGATCTCCA  
+HWI-EAS443:3:24:927:1435#0/1  
aX^)`\_`a]V\_]a`SZaW\_]`VRR]YGOOWVFN¥PVUNN[B  
@HWI-EAS443:3:24:94:1248#0/1  
AGGATCTCCAGTATAAGGGAATGTGGTGTCTTATGGCATTT  
+HWI-EAS443:3:24:94:1248#0/1  
aa\_]abab\_N]¥X\_\_aa``[¥]\_\_a`Ya`a`aa`]W\_`\_^  
@HWI-EAS443:3:25:1001:1005#0/1  
ATTAGCTCCCATTTTAAAGCAGACTTCAGGAATGTGAAGAT  
+HWI-EAS443:3:25:1001:1005#0/1  
abbbabababaaaaaaaaaaaaa\_\_````a\_\_````[\_``\_\_^  
@HWI-EAS443:3:25:1025:219#0/1  
TGCCGGTTGATTTCTGTTAATGTCCAATCATAAGTCTGG  
+HWI-EAS443:3:25:1025:219#0/1  
¥b\_U\_b`^b``\_b`````aaaabZ]S]\_aX`a^]`Z^`\_^  
@HWI-EAS443:3:25:1061:15#0/1  
GGGACATTTGAATTCACAAGCTTTTTTATCGCTATGGAT  
+HWI-EAS443:3:25:1061:15#0/1  
a]W\_X`^TPSP]``[SNUXH`\_[U\_XXX]]\_WYXQU]NV  
@HWI-EAS443:3:25:1140:1103#0/1  
AATTTCTAGCATGGTGGAGCCATGGTGTCTAGGGCCCCGG  
+HWI-EAS443:3:25:1140:1103#0/1  
abbbbaaaaaaab`^a`aa`aY^^Z`[^Y^^^]\_YZ\_¥\_`



+HWI-EAS443:3:25:198:1377#0/1  
\_Ta`ZXbb¥Q\_K\_U¥`Z¥aa\_\_^b`Z`aba`^a[YI\_a^a  
@HWI-EAS443:3:25:258:1245#0/1  
CGCAAAATGCCATAAGCACACATTCCCTTATACTGGAGA  
+HWI-EAS443:3:25:258:1245#0/1  
aabb]abbbaababbaba\_abaaa`\_\_aaaaaaaa¥aa\_  
@HWI-EAS443:3:25:282:1191#0/1  
CAGACTTATGATTGGACATTAACAGAAATCAACCGGCAG  
+HWI-EAS443:3:25:282:1191#0/1  
abaaabbaabaabaa`aaaaaaaa`aaaaa`^``````\_aa\_  
@HWI-EAS443:3:25:383:796#0/1  
TTTGAATTCACAAGCTTTTTTTATCGCTATGGATTTGTGG  
+HWI-EAS443:3:25:383:796#0/1  
aaabbbbaabba¥Xaaaaaaaaabaaba` `a`a`a`a`^\_a  
@HWI-EAS443:3:25:392:1210#0/1  
AAGCACACATTCCCTTATACTGGAGATCCTCCATACAGC  
+HWI-EAS443:3:25:392:1210#0/1  
`TZ`bbbbbb`aaa`[aaa^` `\_\_\_\_X^\_a^`\_¥` `][  
@HWI-EAS443:3:25:498:1872#0/1  
TAGGACTTCTTTTTGCTCATGTTGATTCCCCTAACTTGC  
+HWI-EAS443:3:25:498:1872#0/1  
a^^` `babaaaa`aa`^aa^N]` `aaa]¥`Y]]a¥¥\_a  
@HWI-EAS443:3:25:557:53#0/1  
CAAAATGCCATAAGCACACATTCCCTTATACTGGAGATC  
+HWI-EAS443:3:25:557:53#0/1  
\_` `Vbbbbbbbab`babaaaaaaaa`aaaaaaaa`^aa`\_  
@HWI-EAS443:3:25:596:1193#0/1  
TGATTTTCATTCCACTTAGTGTGTCCCCAGTGATTGTGA  
+HWI-EAS443:3:25:596:1193#0/1  
aba^b`bababbaaba\_b]b`aa`b`baaaY\_aa`a¥`\_  
@HWI-EAS443:3:25:669:463#0/1  
GGTCGCCAGACTTATGATTGGACATTAACAGAAATCAAC  
+HWI-EAS443:3:25:669:463#0/1  
aa0Z\_\_a`^]\_a`\_`\_aaa\_X`^`a`^\_W^^` `^¥`\_`[  
@HWI-EAS443:3:25:697:164#0/1  
GCCAGACTTATGATTGGACATTAACAGAAATCAACCGGC  
+HWI-EAS443:3:25:697:164#0/1  
aa`a¥^W^^S^[X`\_¥VVG[¥VU¥XY^U^U^YXXYXV  
@HWI-EAS443:3:25:804:1522#0/1  
CAACACTAAGTGAATGAAAATCAAAATCCTCGAATGTTC  
+HWI-EAS443:3:25:804:1522#0/1  
`Y¥Z`XJ]\_`aaaaa[a\_Z\_a`b` `V\_MNb\_baaa`¥F  
@HWI-EAS443:3:25:975:1253#0/1  
ATTATCGGGGAAGACTTTGTAATCCCCTGAATCCCTTTGT  
+HWI-EAS443:3:25:975:1253#0/1  
abbbbaaaaa` `]^aaa]^aa` ` ` ` ` `a`\_]`^]X  
@HWI-EAS443:3:26:1159:563#0/1  
ACTAACTCAAGTCCGACTTATGATTGGACATTAAC  
+HWI-EAS443:3:26:1159:563#0/1  
a`baXab`]^bXaaa\_aa\_\_a`\_aa\_[a` `Z]`S`\_`a0



@HWI-EAS443:3:26:1195:1220#0/1  
CAAAATGCCATAAGCACCACATTCCTTATACTGGAGATC  
+HWI-EAS443:3:26:1195:1220#0/1  
abab`bbbbbb\_b]`babbabbaa\_\_a`bab`aaaaaaa`  
@HWI-EAS443:3:26:1234:603#0/1  
GAAAATCAAATCCTCGAATGTTCTGGCGATGATTACAT  
+HWI-EAS443:3:26:1234:603#0/1  
\_R\_QVOR\_\_WFGYRU`^MQ^]R^SJJ\_UT]]X¥UUGRFJV  
@HWI-EAS443:3:26:150:985#0/1  
CACTGGGGACAACACTAAGTGAATGAAAATCAAATCCT  
+HWI-EAS443:3:26:150:985#0/1  
abbaaaaa`aba```aa[a^aa`aaaaaaa`aaa\_``^  
@HWI-EAS443:3:26:1636:880#0/1  
GTACATCTGTTTCATCCTCAAGAATCCCCTTTGGCTTGTG  
+HWI-EAS443:3:26:1636:880#0/1  
aababbbaaaabaaaa\_aaaaaaaaa\_]`aaaa]aa`]  
@HWI-EAS443:3:26:1660:1229#0/1  
GGGACATTTGAATTCACAAGCTTTTTTATCGCTATGGAT  
+HWI-EAS443:3:26:1660:1229#0/1  
L`V\_¥bb\_\_b¥V`\_SY^aa^`bbabb`\_a¥a¥W¥`aXVN^  
@HWI-EAS443:3:26:1700:617#0/1  
CGGTTGATTTCTGTTAATGTCCAATCATAAGTCTGGCGA  
+HWI-EAS443:3:26:1700:617#0/1  
`bb\_]ab]bbbabbbabbaba^`babYbb``b\_^a^a\_aa  
@HWI-EAS443:3:26:1782:1768#0/1  
TGCTCATGTTGATTCCCCTAAGTGCAGGTCCTGTAGAA  
+HWI-EAS443:3:26:1782:1768#0/1  
aaaZ¥¥`a`aa`R`\_aYaQVa]G^FNPXaGU¥MU]NUNBB  
@HWI-EAS443:3:26:326:1289#0/1  
GAAAAAGGAGAGTAAGAGACAACATGACCAAGAAGATGGT  
+HWI-EAS443:3:26:326:1289#0/1  
a]aaaaaaaa]aa\_aaaaaa\_\_\_\_a\_¥``Y\_]\_]\_XY  
@HWI-EAS443:3:26:512:693#0/1  
GCAAAATGCCATAAGCACCACATTCCTTATACTGGAGAT  
+HWI-EAS443:3:26:512:693#0/1  
aaaaa]aaaaa^aaaaa`aaa`\_\_a`a```\_\_^`\_`\_\_  
@HWI-EAS443:3:26:552:1545#0/1  
AAAAAGGAGAGTAAGAGACAACATGACCAAGAAGATGGTC  
+HWI-EAS443:3:26:552:1545#0/1  
``^aaa`abaa\_aba``baaaa``\_a`aaaaa^a^\_^X\_  
@HWI-EAS443:3:26:632:407#0/1  
AGTTCTTCAATGGTGAACAGATCTTCATGATCTCAGAGA  
+HWI-EAS443:3:26:632:407#0/1  
XWF[Z¥]^ZZ¥^^`Z¥]\_\_Q`W]]Vba^a^¥¥^`ZZ\_¥]a  
@HWI-EAS443:3:26:716:1370#0/1  
TGTTTCATCCTCAAGAATCCCCTTTGGCTTGTGTTGAGAA  
+HWI-EAS443:3:26:716:1370#0/1  
`b`abaaaa^`^^`aaaaa¥]a\_a\_a\_a[\_¥][`Y[\_Z\_  
@HWI-EAS443:3:26:749:1066#0/1  
TGCCAGCCCATGGTCCAGCCAAAAGCATGGAATATGATGC

+HWI-EAS443:3:26:749:1066#0/1  
[\_\_TWTb\_^`\_]P^T`a```ab\_a¥aUGH¥bab`[`a^a  
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AAATAAGACAGGGACATTTGAATTCACAAGCTTTTTTTAT  
+HWI-EAS443:3:26:916:1961#0/1  
aabbaa`aa`^^`a\_^\_^\_]`^`a\_a`ZUZW^^^^^\_^  
@HWI-EAS443:3:26:981:614#0/1  
TCTGTGTCTTGTGAATTAGTCATCATCTTTCTCACAAACAT  
+HWI-EAS443:3:26:981:614#0/1  
aabaUbY]^aa^YZZ\_aW`[]^`\_]P`a`\_a^`\_`aV`\_  
@HWI-EAS443:3:27:1015:436#0/1  
GCCATAAGCACCACATTCCTTATACTGGAGATCCTCCAT  
+HWI-EAS443:3:27:1015:436#0/1  
ab`bbbaabaaa`aaa\_\_aaa\_a\_a\_\_aa`^Z\_\_`¥\_\_  
@HWI-EAS443:3:27:1169:178#0/1  
CTCTGTGTCTTGTGAATTAGTCATCATCTTTCTCACAAACA  
+HWI-EAS443:3:27:1169:178#0/1  
\_b¥bb`¥\_aaaaXVH\_\_^OY^U[^a\_^U[\_\_\_ZaV`Z`\_V\_  
@HWI-EAS443:3:27:116:1180#0/1  
TCCAGCGAAAATGCCATAAGCACCACATTCCTTATACT  
+HWI-EAS443:3:27:116:1180#0/1  
aa`W]aX\_a`Wa^[]aaa¥P]aa\_\_a`a\_¥ZY^\_\_W¥`Z^  
@HWI-EAS443:3:27:1467:939#0/1  
ATCCTGTTCCCTGTTCCATGGCTGTATGGAGGATCTCCAGT  
+HWI-EAS443:3:27:1467:939#0/1  
abYbbbaababb`a^`^aab`\_ZHP`\_`Y^]R¥^]GS¥WU  
@HWI-EAS443:3:27:1613:1765#0/1  
CAATCCGGGCCCTAGACACCATGGCCTCCACCATGCTAGA  
+HWI-EAS443:3:27:1613:1765#0/1  
aaa`¥a\_\_a\_a^aaa`YaUa^`\_`[^\_YZZTP^¥`Ga^^Z  
@HWI-EAS443:3:27:1651:872#0/1  
ACTTTAGCTAGGAGCATTGCGAAAAGCTTGAACAGTCTG  
+HWI-EAS443:3:27:1651:872#0/1  
a`ababbabaaaa\_a`a\_a^aZ\_a`\_a^^[\_\_\_\_W¥¥\_  
@HWI-EAS443:3:27:1699:1113#0/1  
GGGGACAACACTAAGTGAATGAAAATCAAAATCCTCGAA  
+HWI-EAS443:3:27:1699:1113#0/1  
abaabbbbabbbbababbabbbbab\_bbabba`a\_bba  
@HWI-EAS443:3:27:169:194#0/1  
TGACAAAGGGATTGAGGGATTACAAAGTCTCCCCGATA  
+HWI-EAS443:3:27:169:194#0/1  
]a\_^a¥^¥WVTZH¥aa^[H^a[Z]`JMTUWXKXOQY[FRV  
@HWI-EAS443:3:27:1708:1308#0/1  
CTTCAATGGTGAACAGATCTTCATGATCTCAGAGAACTC  
+HWI-EAS443:3:27:1708:1308#0/1  
abbbbbbabb[^^b^F[ba[W^`]``aaa]]F^\_S`¥a]a\_  
@HWI-EAS443:3:27:1788:1107#0/1  
CTGGGGACAACACTAAGTGAATGAAAATCAAAATCCTCG  
+HWI-EAS443:3:27:1788:1107#0/1  
aa``bba``^bZ[`aa¥^ba`aaba\_aaaaaa^aaY[]S`

@HWI-EAS443:3:27:179:1435#0/1  
TCCAGCGCAAATGCCATAAGCACCACATTCCTTATACT  
+HWI-EAS443:3:27:179:1435#0/1  
ab\_U[\_Zab]X]aaaa]abb]aaaaaaa`\_a`a`aa`aaY  
@HWI-EAS443:3:27:201:922#0/1  
CCAGCGCAAATGCCATAAGCACCACATTCCTTATACTG  
+HWI-EAS443:3:27:201:922#0/1  
aaTUXa[¥\_\_IX` `a\_aWUQXTRTX\_\_ZGRZ]Z¥YT`PP\_  
@HWI-EAS443:3:27:299:491#0/1  
GGCTGTATGGAGGATCTCCAGTATAAGGGAATGTGGTGCT  
+HWI-EAS443:3:27:299:491#0/1  
aaaaa]a¥[]¥]^^^\_\_^P`W[\_[S¥\_aW]\_`T\_\_SZ[^  
@HWI-EAS443:3:27:399:1483#0/1  
GAATTCAAATGTCCCTGTCTTATTTATATAGGACTTCTTT  
+HWI-EAS443:3:27:399:1483#0/1  
`USYaaaZOU`UabP^`H[^ZX]`¥\_YX]adW]¥\_\_^`\_ [  
@HWI-EAS443:3:27:435:1261#0/1  
GAAAATCAAATCCTCGAATGTCCTGGCGATGATTACAT  
+HWI-EAS443:3:27:435:1261#0/1  
abbbaba`Zaab\_\_aa^`ab`\_`\_]\_aa\_\_W]^[]a]a\_  
@HWI-EAS443:3:27:481:1279#0/1  
ATTCAAATGTCCCTGTCTTATTTATATAGGACTTCTTTTT  
+HWI-EAS443:3:27:481:1279#0/1  
aaabb[U¥` `abaaaa`a\_a\_[\_aaaa\_\_\_S]\_^\_a`\_]`  
@HWI-EAS443:3:27:481:1868#0/1  
GACAACACTAAGTGGAATGAAAATCAAATCCTCGAATGT  
+HWI-EAS443:3:27:481:1868#0/1  
abb\_]bb`WSb\_\_YX\_aa]]baab¥`Ya`aYYY\_aa^]Z  
@HWI-EAS443:3:27:502:1205#0/1  
GATCTCCAGTATAAGGGAATGTGGTGCTTATGGCATTTTG  
+HWI-EAS443:3:27:502:1205#0/1  
``\_]`\_Y\_[XXaa\_V]`\_^`[^]H[^¥[\_```Z]YY[T\_  
@HWI-EAS443:3:27:572:1704#0/1  
AGGACCTGCAAGTTAGTGGGAATCAACATGAGCAAAAAGA  
+HWI-EAS443:3:27:572:1704#0/1  
a^^\_ba\_\_aa]a]`aa]`[]`a^abaa^^`\_`\_a\_aaa^`  
@HWI-EAS443:3:27:608:1412#0/1  
ATCGGGGAAGACTTTGTAATCCCCTGAATCCCCTTTGTCAG  
+HWI-EAS443:3:27:608:1412#0/1  
a`a`\_`¥Y\_\_Y`\_\_`]Za^^`\_]¥^\_]Z]]RZZ^\_X^]]  
@HWI-EAS443:3:27:614:225#0/1  
CATTGAGGATTTTGATTTTCATTCCACTTAGTGTTGTCC  
+HWI-EAS443:3:27:614:225#0/1  
aba`abaaaY`aaaa`aaa`aaaaa\_``aa`\_¥a[``\_]`  
@HWI-EAS443:3:27:714:478#0/1  
ATTTATATAGGACTTCTTTTTGCTCATGTTGATTCCCCT  
+HWI-EAS443:3:27:714:478#0/1  
ababbaabaaa`aaaabababaaaaaaaaaaaaa``a`a  
@HWI-EAS443:3:27:722:633#0/1  
CTTCTTTTTGCTCATGTTGATTCCCCTAACTTGCAAGGTC

+HWI-EAS443:3:27:722:633#0/1  
abbbbbabaabaaaa`aaa`a\_a`aaaa`\_`aaaaaZ`  
@HWI-EAS443:3:27:750:533#0/1  
GTTCTGTTCATGGCTGTATGGAGGATCTCCAGTATAAG  
+HWI-EAS443:3:27:750:533#0/1  
a]a`````\_]a`a`\_a]HVTZ¥P]XSUXWG[QRHPUXVV  
@HWI-EAS443:3:27:782:245#0/1  
GAGTTCTTCAATGGTGGAACAGATCTTCATGATCTCAGAG  
+HWI-EAS443:3:27:782:245#0/1  
a`a^aa`aaa^aaYa`a```a]\_\_`\_a\_a`^^^`^^`\_`  
@HWI-EAS443:3:27:784:1588#0/1  
GTCTTATTTATATAGGACTTCTTTTTGCTCATGTTGATTC  
+HWI-EAS443:3:27:784:1588#0/1  
a\_bbbababaabaa`aaaaaaaaaaaaa`aa\_\_`aa`\_`  
@HWI-EAS443:3:27:912:1522#0/1  
CTTGGTGTATTTCTTTTGTCCAAGATTCAGTATCGAGACT  
+HWI-EAS443:3:27:912:1522#0/1  
UaaZaa^a\_bbabbbXa`a`b`aba[ba[baa`b`\_]  
@HWI-EAS443:3:27:987:1322#0/1  
ACTTTGTTGAACTTTAGCTAGGAGCATTTCGAAAAGCT  
+HWI-EAS443:3:27:987:1322#0/1  
`ba^b`aba]¥S\_a\_]a`Y\_a`a`^`\_`W^`\_`^`¥  
@HWI-EAS443:3:28:1005:701#0/1  
ACCGTTGGAATTTCTAGCATGGTGGAGGCCATGGTGTCT  
+HWI-EAS443:3:28:1005:701#0/1  
a¥`a`aabb^S]aa¥`a]\_a`¥N]WU^X¥^^`V¥^\_P[  
@HWI-EAS443:3:28:1006:1204#0/1  
CCAGTATAAGGGAATGTGGTGTATGGCATTTCGCGCTG  
+HWI-EAS443:3:28:1006:1204#0/1  
\_]R]W\_a\_0¥Z\_YX¥YR[¥W[Y^OZ^WPFJYWQ[]¥WDX  
@HWI-EAS443:3:28:108:495#0/1  
GTTGCAACGGCATCATATCCATGCTTTTGGCTGGACCAT  
+HWI-EAS443:3:28:108:495#0/1  
a\_aaabaa]a^^aaa`aaa^]]¥a```\_`a\_a¥Y¥[V[  
@HWI-EAS443:3:28:1140:830#0/1  
ATCGGGGAAGACTTTGTAATCCCCTGAATCCCCTTGTCAG  
+HWI-EAS443:3:28:1140:830#0/1  
a`¥I`aa\_aa\_Waa`\_¥^\_aY\_XX`Z`^`[W^^\_]U\_\_  
@HWI-EAS443:3:28:1189:809#0/1  
GAGTTCTTCAATGGTGGAACAGATCTTCATGATCTCAGAG  
+HWI-EAS443:3:28:1189:809#0/1  
\_NZW¥V\_a¥a`Y[[]XOTU[X\_[Z`¥X\_UYYWW^U^\_ZZ  
@HWI-EAS443:3:28:1234:1444#0/1  
AGTGAATGAAAATCAAATCCTCGAATGTTCTGCGGAT  
+HWI-EAS443:3:28:1234:1444#0/1  
a`a¥aabaaaa`\_babaaa¥baab¥ba\_N[X`[Y^`\_`\_`  
@HWI-EAS443:3:28:1323:1120#0/1  
GCCGGTTGATTTCTGTTAATGTCCAATCATAAGTCTGGC  
+HWI-EAS443:3:28:1323:1120#0/1  
`PY`^ba¥aaa\_aa\_aaaa\_a^^Z^`^`^^`^`\_]`\_`]]

@HWI-EAS443:3:28:132:1331#0/1  
CGCAAAATGCCATAAGCACCACATTCCTTATACTGGAGA  
+HWI-EAS443:3:28:132:1331#0/1  
a`a[¥TWYR]a`]R]X[`\_]X`^X``¥PY\_\_a\_\_\_RLX\_[V  
@HWI-EAS443:3:28:1340:1582#0/1  
TGTTTCATCCTCAAGAATTCCTTTGGCTTGTGTTGAGAA  
+HWI-EAS443:3:28:1340:1582#0/1  
aaV\_G\_a¥\_a]^abXXWQ[Q\_YaX00XP][\_GWFOYIYQT  
@HWI-EAS443:3:28:1368:632#0/1  
GGACAACACTAAGTGAATGAAAATCAAAATCCTCGAATG  
+HWI-EAS443:3:28:1368:632#0/1  
a¥YXV[WNY\_`[\_M^\_\_\_\_]\_^]\_\_\_\_SMZZ¥R¥^V^\_YSYW  
@HWI-EAS443:3:28:1432:658#0/1  
CACTAAGTGAATGAAAATCAAAATCCTCGAATGTTCTG  
+HWI-EAS443:3:28:1432:658#0/1  
ab¥a`b\_G\_bbb``\_b^^¥```¥Y\_X\_[^`\_¥`\_YWXQ]  
@HWI-EAS443:3:28:1639:27#0/1  
AATTTCTAGCATGGTGGAGCCATGGTGTCTAGGGCCCGG  
+HWI-EAS443:3:28:1639:27#0/1  
aUb^aaaabXa`b^T\_a]`\_¥UQ¥¥^¥W¥SQXYWZGNKWS  
@HWI-EAS443:3:28:1699:285#0/1  
GAGTTCCTCAATGGTGAACAGATCTTCATGATCTCAGAG  
+HWI-EAS443:3:28:1699:285#0/1  
aa`[a]\_a\_\_Z¥aa[``^`a\_\_\_\_\_U```^`\_[U`GW^\_^  
@HWI-EAS443:3:28:195:898#0/1  
GAGTTCCTCAATGGTGAACAGATCTTCATGATCTCAGAG  
+HWI-EAS443:3:28:195:898#0/1  
¥^^^bbbbbbaa]GbaZ`babaa`ba\_aa¥a\_a^b`]¥a  
@HWI-EAS443:3:28:300:652#0/1  
GTGGGAATCAACATGAGCAAAAAGAAGTCCTATATAAATA  
+HWI-EAS443:3:28:300:652#0/1  
aaa^aaaabbbbaa``aaaaaa¥`a^W`a\_]`\_\_aZ`\_`  
@HWI-EAS443:3:28:318:369#0/1  
GCCGGTTGATTTCTGTTAATGTCCAATCATAAGTCTGGC  
+HWI-EAS443:3:28:318:369#0/1  
aaaab^aaaaaa\_\_`\_aaa``a^`^````\_`\_a\_WZ\_^`^X  
@HWI-EAS443:3:28:416:322#0/1  
GTCTCGATACTGAATCTTGGACAAAAGAAATACACCAAGA  
+HWI-EAS443:3:28:416:322#0/1  
a\_aaaa`aa`a\_\_\_a`aaaa\_\_\_`\_```Xa\_¥¥\_`]\_\_\_¥  
@HWI-EAS443:3:28:460:819#0/1  
GTCCTATATAAATAAGACAGGGACATTTGAATTCACAAGC  
+HWI-EAS443:3:28:460:819#0/1  
a`aaaaaa`aaaa\_\_`aa\_a\_]```^`^`^`^`\_\_\_\_^  
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GAGTTCCTCAATGGTGAACAGATCTTCATGATCTCAGAG  
+HWI-EAS443:3:28:563:1039#0/1  
aabS]^aaba`^Za`aabaaaa`\_`aa¥[``\_`\_`a`a`  
@HWI-EAS443:3:28:610:743#0/1  
ATCCTGTTCTGTTCCATGGCTGTATGGAGGATCTCCAGT

+HWI-EAS443:3:28:610:743#0/1  
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@HWI-EAS443:3:28:675:1555#0/1  
TCCTGTTCCCTGTTCCATGGCTGTATGGAGGATCTCCAGTA  
+HWI-EAS443:3:28:675:1555#0/1  
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CAAAATGCCATAAGCACCACATTCCCTTATACTGGAGATC  
+HWI-EAS443:3:28:677:490#0/1  
T[PY\_\_X\_Wa`¥\_[]¥ZW`ba]¥`V\_]babba`a\_bbbaa  
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GCGCAAAATGCCATAAGCACCACATTCCCTTATACTGGAG  
+HWI-EAS443:3:28:726:1141#0/1  
aaaaaa\_a`aa`aa`]`a`]aa`\_\_\_\_\_]^`\_`\_Y^X]¥  
@HWI-EAS443:3:28:980:1840#0/1  
GGACAACACTAAGTGAATGAAAATCAAAATCCTCGAATG  
+HWI-EAS443:3:28:980:1840#0/1  
a^`a\_a^`ab¥]Z^`aaaa\_a\_\_\_Z]a[R]XX`[\_a  
@HWI-EAS443:3:29:1112:1293#0/1  
GGACAACACTAAGTGAATGAAAATCAAAATCCTCGAATG  
+HWI-EAS443:3:29:1112:1293#0/1  
abbabbbbbbba^aaababaaaaa`baaaaa`\_a`aa\_  
@HWI-EAS443:3:29:1133:357#0/1  
CAAAATGCCATAAGCACCACATTCCCTTATACTGGAGATC  
+HWI-EAS443:3:29:1133:357#0/1  
a¥bbabbbbabbb`ababbaa\_abbabbaab\_aaa`]`  
@HWI-EAS443:3:29:1141:1120#0/1  
GTCCAGCCAAAAGCATGGAATATGATGCCGTTGCAACTAC  
+HWI-EAS443:3:29:1141:1120#0/1  
`\_b\_X^`aaaaa]\_]`^`\_a`\_`\_`\_`\_`^]\_^`^^[B  
@HWI-EAS443:3:29:1142:512#0/1  
GTGGAACAGATCTTCATGATCTCAGAGAACTCTTCTTTCT  
+HWI-EAS443:3:29:1142:512#0/1  
a\_a`^`\_`\_`\_`aYaaa\_\_\_^`\_^`\_^`\_]^^\_]a^`\_\_\_^^`  
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+HWI-EAS443:3:29:1418:1282#0/1  
abbb`abbbbbbba`bbba\_bbabbbbaabbbbbbaba  
@HWI-EAS443:3:29:14:875#0/1  
TCCAGCGCAAAATGCCATAAGCACCACATTCCCTTATACT  
+HWI-EAS443:3:29:14:875#0/1  
ab`P`aaaab]aaaa`¥a`a]a¥\_a]U]\_\_^`\_\_\_\_\_`\_^Z  
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ATGTAATCATCGCCAGGAACATTCGAGGATTTTGTATTTTC  
+HWI-EAS443:3:29:1539:145#0/1  
aaa`aaaabaaa[]`a`\_`0¥\_\_^`\_^`\_0`\_a`Taa`]Z  
@HWI-EAS443:3:29:1658:1461#0/1  
AGAAAAAGGAGAGTAAGAGACAACATGACCAAGAAGATGG  
+HWI-EAS443:3:29:1658:1461#0/1  
^b\_aa`abbabaa[aaaaaaZ`a\_a`\_`\_ZZ`aaaaaa¥`\_`

@HWI-EAS443:3:29:1690:689#0/1  
GGAACATTTCGAGGATTTTGATTTTCATTCCACTTAGTGTT  
+HWI-EAS443:3:29:1690:689#0/1  
abaaSabaab`ba^aaaab\_aaaa¥`a\_YW\_Zaa`a^a\_B  
@HWI-EAS443:3:29:1777:870#0/1  
GTTCTTCAATGGTGAACAGATCTTCATGATCTCAGAGAA  
+HWI-EAS443:3:29:1777:870#0/1  
a`a\_aaaaaaa`X`\_`\_]\_^\_^]``Z\_^`\_]a]\_]\_^\_]`  
@HWI-EAS443:3:29:1784:547#0/1  
ATTTGAATTCACAAGCTTTTTTATCGCTATGGATTTGTG  
+HWI-EAS443:3:29:1784:547#0/1  
abaabaabbab\_aaa]aaaa`a``\_a^``aa[¥a\_a\_^¥  
@HWI-EAS443:3:29:205:1045#0/1  
CTCTGTGTCTTGTGAATTAGTCATCATCTTTCTCACAACA  
+HWI-EAS443:3:29:205:1045#0/1  
aaba^^a`aaa\_[]X^a\_]\_W]Z``[\_a`````\_a```Y``  
@HWI-EAS443:3:29:215:280#0/1  
AGGACTTCTTTTTGCTCATGTTGATTCCCACTAACTTGCA  
+HWI-EAS443:3:29:215:280#0/1  
^b]\_`abaab`aa`aaa[]Vaa\_`a`aa```\_\_a\_\_`\_]Y  
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CAAAATGCCATAAGCACCACATTCCCTTATACTGGAGATC  
+HWI-EAS443:3:29:219:1261#0/1  
a`ba`a\_aba\_]a\_abaaa`a`aa\_`\_`a`aa\_^^\_]^`  
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TGGAATTTCTAGCATGGTGGAGGCCATGGTGTCTAGGGCC  
+HWI-EAS443:3:29:253:666#0/1  
a```]`bbabaa]aa\_a`^Za`[X`^^^]]¥a¥a[¥^`]`Y  
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GGCTGTATGGAGGATCTCCAGTATAAGGGAATGTGGTGCT  
+HWI-EAS443:3:29:264:1400#0/1  
aaaaaX`\_\_a^a\_\_a\_a\_P]N^`\_[]`\_^]]U00¥0]YS  
@HWI-EAS443:3:29:556:595#0/1  
GGACAACACTAAGTGAATGAAAATCAAAATCCTCGAATG  
+HWI-EAS443:3:29:556:595#0/1  
a``^Z^`a``Z`^^aaaaaaa`\_`a`aa\_``\_a`Z\_V^  
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ATGTAATCATCGCCAGGAACATTCGAGGATTTTGATTTTC  
+HWI-EAS443:3:29:599:1930#0/1  
aa`\_ababb\_``ba\_[]¥aX`]]^TV]a¥W]]Z`\_^\_Z\_¥  
@HWI-EAS443:3:29:888:819#0/1  
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+HWI-EAS443:3:29:888:819#0/1  
ZTQ¥b\_``baX]]``W`TYZUaaZ`¥``a\_a[]¥````\_[]  
@HWI-EAS443:3:2:1062:612#0/1  
AATTTCTAGCATGGTGGAGGCCATGGTGTCTAGGGCCCGG  
+HWI-EAS443:3:2:1062:612#0/1  
a¥ba`\_a`a`aa`S\_\_a\_]\_\_`\_¥\_G\_SSN¥V¥ZWUU¥¥  
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CTGCCGGTTGATTTCTGTTAATGTCCAATCATAAGTCTG

+HWI-EAS443:3:2:118:576#0/1  
aaaaYbbaaa\_aaa]abbbbbaaaa\_V¥aaa`aaa\_a\_`a`  
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+HWI-EAS443:3:2:1280:1865#0/1  
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CTTTGTTGAACTTTAGCTAGGAGCATTTCGCGAAAAGCTT  
+HWI-EAS443:3:2:1280:514#0/1  
aabbaab]YZ\_aaa\_a\_a`a\_Zb\_]a`\_aWa\_]^^\_V^a  
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GCCAGACTTATGATTGGACATTAACAGAAATCAACCGGC  
+HWI-EAS443:3:2:157:196#0/1  
a\_\_¥]^`\_a\_]Z[]^`\_\_\_\_^]]]T¥`^\_\_]]]¥^W]^WB  
@HWI-EAS443:3:2:1716:705#0/1  
AGGATTTTGATTTTCATTCCACTTAGTGTTGTCCCCAGTG  
+HWI-EAS443:3:2:1716:705#0/1  
`bb\_a`aab\_a\_\_[\_`\_a\_]\_a^\_\_Za^`^\_XU[Y^\_Z\_  
@HWI-EAS443:3:2:512:743#0/1  
GTCTTATTTATATAGGACTTCTTTTTGCTCATGTTGATTC  
+HWI-EAS443:3:2:512:743#0/1  
`[\_`\_a\_aaa`\_\_`\_aZ\_^a^[\_`\_a\_\_\_\_¥^]`\_^`^^ZS  
@HWI-EAS443:3:2:543:172#0/1  
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+HWI-EAS443:3:2:543:172#0/1  
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TGTAGTTGCAACGGCATCATATCCATGCTTTTGGCTGGA  
+HWI-EAS443:3:2:575:1296#0/1  
a`R\_a[`¥`¥V^aS`a`\_W]`¥\_¥\_^[¥Y¥\_[WZ\_¥B  
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TGCCGGTTGATTTCTGTTTAATGTCCAATCATAAGTCTGG  
+HWI-EAS443:3:2:876:945#0/1  
abaaba`abaa^b\_a`[`aa`aa]S\_\_`]^a^`[`PN`W  
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GAGTTCTTCAATGGTGAACAGATCTTCATGATCTCAGAG  
+HWI-EAS443:3:2:889:301#0/1  
aab\_a\_aaa`aaaaZ^^\_¥X^a^^^a\_\_\_\_]\_^\_X\_ZX`^]  
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AGTTCTTCAATGGTGAACAGATCTTCATGATCTCAGAGA  
+HWI-EAS443:3:2:949:318#0/1  
P\_\_U^`UbaZ\_RU\_`bZ]^a\_Q[`¥`^`abaY^¥aab`aa  
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CAAATGTCCCTGTCTTATTTATATAGGACTTCTTTTGCT  
+HWI-EAS443:3:30:100:561#0/1  
aaa^\_aRaaa\_aUb\_`[\_\_\_\_]WZZ^`a]]`\_^a\_^[^][YW  
@HWI-EAS443:3:30:1047:1232#0/1  
TCCTGTTCCATGGCTGTATGGAGGATCTCCAGTATAAGGG  
+HWI-EAS443:3:30:1047:1232#0/1  
abaa`\_`aab`aa`N]Z\_\_V\_`¥TUXW[Q\_PUUTZZ[^



@HWI-EAS443:3:30:1238:756#0/1  
CAATGGTGAACAGATCTTCATGATCTCAGAGAACTCTTC  
+HWI-EAS443:3:30:1238:756#0/1  
aaba^`bb^W\_bbXaabbba^Y`a`a`\_S`aaa]\_\_\_]X\_X  
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AGTTCTTCAATGGTGAACAGATCTTCATGATCTCAGAGA  
+HWI-EAS443:3:30:1286:430#0/1  
ab\_a¥aaaaabaVa\_aa[aa^`\_a`\_`\_`a`U`Z^^\_]`  
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GCTGCCGTTGATTTCTGTTTAATGTCCAATCATAAGTCT  
+HWI-EAS443:3:30:1386:475#0/1  
ZT\_b]aab\_bUH\_aa`aZXaaaa]`\_\_aa]PZ[aYa\_N\_  
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+HWI-EAS443:3:30:1481:700#0/1  
^¥W\_aba`\_¥aa\_b^[]`S^¥baaa`\_`\_aba\_UaP]a  
@HWI-EAS443:3:30:1489:937#0/1  
GCCATAAGCACCACATTCCTTATACTGGAGATCCTCCAT  
+HWI-EAS443:3:30:1489:937#0/1  
aa\_baaabaaa\_a`aaaa`\_aa`a^`\_`\_]`^]X^UXX\_  
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+HWI-EAS443:3:30:1502:354#0/1  
aaaXPVZaZ[Z`X¥a[a`ZRT`^`aWa¥H¥Z[]aZ[VX\_X  
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AGACTGTTCAAGCTTTTCGCAAATGCTCCTAGCTAAAGTT  
+HWI-EAS443:3:30:1547:611#0/1  
a`Vabb^]LUL[\_`\_`\_¥`\_ba¥XLSOS¥P]X^\_\_]aS[  
@HWI-EAS443:3:30:250:1079#0/1  
CAATGGTGAACAGATCTTCATGATCTCAGAGAACTCTTC  
+HWI-EAS443:3:30:250:1079#0/1  
aZSY^]S¥WWZ\_Z`RSYV[[\_¥TTS[W\_XGOYL[V[^[]\_  
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ATGAAAATCAAAATCCTCGAATGTTCTGCGGATGATTAC  
+HWI-EAS443:3:30:307:770#0/1  
\_¥aa^\_WW`^ZWW\_Zaaa¥XaYVR[^a]`^`Y`VSVSBB  
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ATAGGACTTCTTTTTGCTCATGTTGATTCCCCTAACTTG  
+HWI-EAS443:3:30:457:176#0/1  
aabb`a``aaaa`aa\_a^aa`^^^¥]\_\_\_]U\_^`\_XZZ^  
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GTTGGAATTTCTAGCATGGTGGAGGCCATGGTGTCTAGGG  
+HWI-EAS443:3:30:611:71#0/1  
a[^¥PXN\_VRLY`RRSU¥N\_XUUUVWUMZUPQBBBBBBB  
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TTCTAGCATGGTGGAGGCCATGGTGTCTAGGGCCCGGATT  
+HWI-EAS443:3:30:622:896#0/1  
\_^]\_a`\_a\_\_¥`[[Z]Xa`a¥X¥PXW¥T]¥ZZ`]^]^ZNS  
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+HWI-EAS443:3:30:833:74#0/1  
aaaa`abbabbbb`aaa`^a``\_a`a`[\_a`aaa^[a  
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TGAGAAAATAAGGCCTCTTCTAATAGATGGCACAGCATCA  
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`baa\_aa`a]]`aa]XN^aa`a`aa`\_`\_\_\_`aa`]\_^\_Ya  
@HWI-EAS443:3:31:1024:623#0/1  
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+HWI-EAS443:3:31:1024:623#0/1  
]ZY`aZ`\_a`^UJTX\_Y\_0Z`\_]`P`a``abQR^]\_ZW[\_Z  
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CATCCATTAGCTCCCATTTTAAGCAGACTTCAGGAATGTG  
+HWI-EAS443:3:31:1065:75#0/1  
aab^^bbbbaab\_\_b\_bbbb\_abbabbaaaa`bb`aba`  
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GACCGTTGGAATTTCTAGCATGGTGGAGGCCATGGTGTC  
+HWI-EAS443:3:31:1101:189#0/1  
aZ```ZK\_]XWV[^]`^V[^Z`^^ZU^[^` [UVUUYYUYQR  
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+HWI-EAS443:3:31:1133:1361#0/1  
ZZ\_bb\_^^`]Z]U`Z`^WYaS[^a[^YWZ`Y^\_WNaZ^\_U  
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+HWI-EAS443:3:31:127:1479#0/1  
`Z`W`Waa^\_`\_`Z`\_]V\_a]W`\_a^YU[O^YZUWYTQ[  
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+HWI-EAS443:3:31:1506:1904#0/1  
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CTTTAGCTAGGAGCATTTGCGAAAAGCTTGAACAGTCTGG  
+HWI-EAS443:3:31:1523:1293#0/1  
abba`^`ba`\_`Z`\_`b`]bb\_Z]aX\_abaa\_aa\_abbZ  
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GATAAACTAACTCAAGGTCGCCAGACTTATGATTGGACAT  
+HWI-EAS443:3:31:1588:1282#0/1  
aaaaaaaaaba`a\_aa`\_Z\_a]\_\_a`Z`]Z`[^\_WZM]\_`  
@HWI-EAS443:3:31:363:146#0/1  
CCTGTTCTGTTCCATGGCTGTATGGAGGATCTCCAGTAT  
+HWI-EAS443:3:31:363:146#0/1  
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@HWI-EAS443:3:31:366:1625#0/1  
CACTGGGACAACACTAAGTGGAAATGAAAATCAAAATCCT  
+HWI-EAS443:3:31:366:1625#0/1  
^`aaa]\_aabbba`baa`aaQ`Z`ba`^aa`^a`a`a`\_`  
@HWI-EAS443:3:31:436:1439#0/1  
ATTTCTAGCATGGTGGAGGCCATGGTGTCTAGGGCCCGGA  
+HWI-EAS443:3:31:436:1439#0/1  
aaa`a`]\_aaa`^T`^`]a`^SU^SXU`S`YUYUW^WXU

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aba`bababbaa`Uaabaaaa\_\_Z[]¥aW\_SX^^¥^^]S  
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+HWI-EAS443:3:31:631:1008#0/1  
ab`ab¥babbabaabaaab\_baaaa`bab¥a`aaaaa\_[  
@HWI-EAS443:3:31:697:697#0/1  
ATCAAATCCTCGAATGTTCTGGCGATGATTACATATAT  
+HWI-EAS443:3:31:697:697#0/1  
aaa`\_aab`baaaa]\_a`]`aa`\_``Z¥¥¥¥¥]^^`\_  
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GACCGTTGGAATTTCTAGCATGGTGGAGGCCATGGTGTC  
+HWI-EAS443:3:31:722:1722#0/1  
aaabaXZaa]^^a```a`aa\_\_`U¥Z^¥U\_]¥VY^GVSU  
@HWI-EAS443:3:31:821:1443#0/1  
GACTTCTTTTTGCTCATGTTGATTCCCCTAACTTGCAGG  
+HWI-EAS443:3:31:821:1443#0/1  
\_Y^^^`QXVRUV\_[a]V\_PFYXV¥\_`¥`^U[`Y[]]XI  
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+HWI-EAS443:3:31:967:152#0/1  
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GCAAAATGCCATAAGCACCACATTCCCTTATACTGGAGAT  
+HWI-EAS443:3:32:1117:1291#0/1  
`b`a[V¥^`][``¥^aa\_aR¥aa\_^\_``\_\_`N¥\_\_^  
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+HWI-EAS443:3:32:1206:296#0/1  
aa^aa`ab]0[a`aa`a`aa]^`^^`^^`^Z]X\_\_\_\_  
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+HWI-EAS443:3:32:1304:1227#0/1  
aababa`abaaaaba\_aZ\_baaa`aaaba`a`^a^\_\_aa  
@HWI-EAS443:3:32:1379:1388#0/1  
GAAGAAAATTGAGAAAATAAGGCCTTCTAATAGATGGC  
+HWI-EAS443:3:32:1379:1388#0/1  
a]\_a`a`a`aa\_a\_a\_Y^aUa\_^\_]\_`\_\_\_\_\_`\_a]^`^`  
@HWI-EAS443:3:32:1420:721#0/1  
GTCTCGATACTGAATCTTGGACAAAAGAAATACACCAAGA  
+HWI-EAS443:3:32:1420:721#0/1  
]aaWV¥Ta\_\_\_\_¥R`[L]`aI[[PX]YUY`]]XPY^TNQ¥B  
@HWI-EAS443:3:32:146:1557#0/1  
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+HWI-EAS443:3:32:146:1557#0/1  
]YQ\_¥aWS\_\_H\_YQ\_0¥X`^a`^[b`a`^`¥¥`[\_JISZ]  
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+HWI-EAS443:3:32:1608:832#0/1  
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+HWI-EAS443:3:32:233:1213#0/1  
aaaabab\_b¥`baa]Yab`aa`Uaa\_YXZU\_a`\_aa`^a]  
@HWI-EAS443:3:32:253:754#0/1  
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+HWI-EAS443:3:32:253:754#0/1  
ab\_abbaab\_aaaba\_a`a`aa\_^¥\_¥\_]U\_^`]SY]ZNZ  
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GAGTTCTTCAATGGTGAACAGATCTTCATGATCTCAGAG  
+HWI-EAS443:3:32:392:362#0/1  
`\_\_GZ`]¥¥`^^^NTYZa^¥¥T[¥\_aaa`a]Y[[JT^]T  
@HWI-EAS443:3:32:430:293#0/1  
CAAAGGGATTGAGGGATTACAAAGTCTTCCCCGATAATC  
+HWI-EAS443:3:32:430:293#0/1  
a\_aaaaaa^Ya`a`^`^^^aa^\_W^^^`\_]XXV][  
@HWI-EAS443:3:32:625:1362#0/1  
ATGGTCCAGCCAAAAGCATGGAATATGATGCCGTTGCAAC  
+HWI-EAS443:3:32:625:1362#0/1  
`¥\_Z\_\_TV¥Z][U`¥\_¥^[P]¥S]a\_NTZ\_]^YO^UQ\_  
@HWI-EAS443:3:32:665:122#0/1  
CAACACTAAGTGAATGAAAATCAAATCCTCGAATGTTC  
+HWI-EAS443:3:32:665:122#0/1  
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GAAAAAGGAGAGTAAGAGACAACATGACCAAGAAGATGGT  
+HWI-EAS443:3:32:688:364#0/1  
aaa\_aaaaa`^^^a`a\_aa`^^`^^`\_`\_`\_`^`^`\_¥Z  
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CCAGCGCAAAATGCCATAAGCACCACATTCCCTTATACTG  
+HWI-EAS443:3:32:72:111#0/1  
¥\_[a`^¥\_Y[LZb¥\_]¥0\_ab\_aa]`^X`^^¥NYTZW[  
@HWI-EAS443:3:32:824:483#0/1  
TGCCGTTGATTTCTGTTTAAATGTCCAATCATAAGTCTGG  
+HWI-EAS443:3:32:824:483#0/1  
abb^`b`a`]abbbab`bbU`\_aa`]XW`\_aa[]a0baa[  
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CGAGGATTTGATTTTATTCCACTTAGTGTTGCCCCAG  
+HWI-EAS443:3:32:851:1942#0/1  
]`^^Z`]`^¥Z^`Z\_a\_Ua^^`¥W^R]TY`\_]\_L]aa[  
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GTTCTTCAATGGTGAACAGATCTTCATGATCTCAGAGAA  
+HWI-EAS443:3:32:898:148#0/1  
Y¥`a]b\_bb¥bbabbb^¥b]R`aaa^[Za`a\_a^^aaaa  
@HWI-EAS443:3:32:918:1648#0/1  
CTTTGTTGAAACTTTAGCTAGGAGCATTGCGAAAAGCTT  
+HWI-EAS443:3:32:918:1648#0/1  
a`a`\_[VY\_Y]a^Q]^aa]aaaT]a`\_`ZPaR\_W`N\_\_XU

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]FILXZRY^^LTNLPVVQVW\_WNQRPMWYWTQVT[WPT  
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+HWI-EAS443:3:33:1075:1817#0/1  
a¥a\_^bbbaaaa^a[^^¥b\_RQa\_bb¥HZ[[ZT[\_^`TVR  
@HWI-EAS443:3:33:112:1765#0/1  
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+HWI-EAS443:3:33:112:1765#0/1  
a[a^[Z^`PaaS`[^\_¥UXV`\_^RWWTU^UTSGQGNW  
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+HWI-EAS443:3:33:1162:351#0/1  
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+HWI-EAS443:3:33:1229:1523#0/1  
`baaab`Z\_bbbbaa`aaR\_b`a¥a`\_YKVU¥\_]\_a  
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+HWI-EAS443:3:33:1619:1989#0/1  
¥bab`¥[^a`bb`a^^^\_¥babbM^^T¥aaY\_ZY\_XY`^P  
@HWI-EAS443:3:33:1638:1196#0/1  
GTTCTTCAATGGTGAACAGATCTTCATGATCTCAGAGAA  
+HWI-EAS443:3:33:1638:1196#0/1  
^]\_T\_a\_¥][`ZZVMFX`¥^¥L[^^YX[[WUWUUS]¥X  
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CAAAGGGATTGAGGGATTACAAAGTCTTCCCGATAATC  
+HWI-EAS443:3:33:1639:948#0/1  
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@HWI-EAS443:3:33:1718:1442#0/1  
ATTTGAATTCACAAGCTTTTTTATCGCTATGGATTTGTG  
+HWI-EAS443:3:33:1718:1442#0/1  
`a`ba`]ba¥\_] [M]\_aaaW\_\_aa`aXYV¥T[Y^Z^P[[  
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+HWI-EAS443:3:33:1730:1385#0/1  
¥babb\_bb`^`b¥b`X`]bb`b\_ab`\_```UU\_LW`bWaV  
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+HWI-EAS443:3:33:227:1462#0/1  
aba`^`aaaa¥aaaa\_aaa\_a`aaa\_SW^¥^UU[\_¥UY  
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GATAAAAAAAGCTTGTGAATTCAAATGTCCCTGTCTTATT  
+HWI-EAS443:3:33:462:445#0/1  
abb]\_b^bW`bbaab\_aaab`^ba\_a^[a\_`\_\_]\_a\_\_\_\_  
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CATTGAGGATTTTGTATTTTCATTCCACTTAGTGTTGTCC  
+HWI-EAS443:3:33:540:1631#0/1  
a]aabaaaaaaba\_\_aaa`aaa\_aaaaaa^Z[\_^]``  
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+HWI-EAS443:3:33:566:402#0/1  
aaaaa`aa\_\_\_\_^aa`a\_[`aa^a\_\_``\_`\_`\_Z]^^[^^]  
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+HWI-EAS443:3:33:655:70#0/1  
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+HWI-EAS443:3:33:748:1115#0/1  
¥N¥b[`]bb``ababXb^[`aab\_]Yaa`^Y^\_Y`RU[TP  
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CGAGGATTTTGTATTTTCATTCCACTTAGTGTTGTCCCCAG  
+HWI-EAS443:3:33:785:1029#0/1  
^VWY¥]`\_[^]ZX¥Ya`]`¥YZO]\_[¥LZ]`YWJYZ¥\_\_  
@HWI-EAS443:3:34:1057:554#0/1  
TGGAATTTCTAGCATGGTGGAGGCCATGGTGTCTAGGGCC  
+HWI-EAS443:3:34:1057:554#0/1  
\_bb\_aaaaab`^`aabbU\_]``]````\_`\_Y\_YWV^ZUUNB  
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+HWI-EAS443:3:34:1219:965#0/1  
¥¥ZTWRZ[^\_V\_b^S`ZRabb`\_a^^b`N¥K\_T^^BBBBB  
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CAGCACTTCTGGTACATCTGTTTCATCCTCAAGAATTCCCC  
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ab`aa`bbaa`aaa`aa\_a^]aaaa¥Y\_a`]a¥[Z`QTTW  
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GAGGATTTTGTATTTTCATTCCACTTAGTGTTGTCCCCAGT  
+HWI-EAS443:3:34:1292:37#0/1  
aa\_aaaaabaa\_R\_aa`b`a`^aa\_aZa\_``¥]Z]U]]Z  
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+HWI-EAS443:3:34:134:1606#0/1  
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@HWI-EAS443:3:34:1373:1412#0/1  
GACAAAGGGATTACAGGGATTACAAAGTCTTCCCCGATAA  
+HWI-EAS443:3:34:1373:1412#0/1  
a\_abbY`b\_[`ababa`b`abbbab`aX`b`\_\_^[aZ`[]

@HWI-EAS443:3:34:1552:173#0/1  
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+HWI-EAS443:3:34:1552:173#0/1  
aZYaa`abaaaaa`\_`\_\_aa\_^]`^LMBBBBBBBBBBBBB  
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+HWI-EAS443:3:34:245:1225#0/1  
ab`bZba\_\_aaaaaa`a\_aa\_``\_`\_a\_aUX\_\_[\_\_W^  
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+HWI-EAS443:3:34:259:1361#0/1  
aJ^[a^a`\_¥]WYaa^aaaa^aaa^\_aa`¥¥`Z^^\_X^]Q  
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+HWI-EAS443:3:34:40:451#0/1  
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AATAAGACAGGGACATTTGAATTCACAAGCTTTTTTATC  
+HWI-EAS443:3:34:503:1611#0/1  
¥]I\_]WX[S]TOWZ\_a¥WY\_V]^a\_a¥LPPF[a\_]V]BBB  
@HWI-EAS443:3:34:514:815#0/1  
TGCCGGTTGATTTCTGTTTAAATGTCCAATCATAAGTCTGG  
+HWI-EAS443:3:34:514:815#0/1  
a`bba\_\_aa`aaa`a`a`aaaa^`\_`\_aa`a`\_ZX^]Z  
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+HWI-EAS443:3:34:541:1417#0/1  
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aaa^`baaa`Zaaaaa`aaa\_a\_aa`a\_a¥\_]`^X^  
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+HWI-EAS443:3:34:771:1426#0/1  
aba```a^Zaaaaab\_ab\_bba\_baba^abaa`ZR¥]\_¥\_  
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+HWI-EAS443:3:34:776:763#0/1  
aaa`b`aaaa`aaaaaa\_ab^`a`^NX\_\_¥]`¥`[ULO  
@HWI-EAS443:3:34:913:877#0/1  
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+HWI-EAS443:3:34:913:877#0/1  
aaaaa`aaba`Z^\_aaaaaa`a`¥`a[`a`^`^`\_]`U`  
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+HWI-EAS443:3:34:995:1988#0/1  
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+HWI-EAS443:3:35:1138:487#0/1  
X`XXa^a^R]\_bbba`baa]\_P`VZZ\_aZ]^b```aa]V  
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+HWI-EAS443:3:35:114:1505#0/1  
ab`bbaaa^aa\_¥\_aaaa`a\_a`¥`^`b`a^a`WZ`X`^  
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CTGGTACATCTGTTTCATCCTCAAGAATTCCCCTTGGCTT  
+HWI-EAS443:3:35:124:1664#0/1  
K`b\_a¥ab\_b]¥[]bbXbbabZb^^\_[LYbbabaV`b^X  
@HWI-EAS443:3:35:1266:54#0/1  
AGACTGTTCAAGCTTTTCGCAAATGCTCCTAGCTAAAGTT  
+HWI-EAS443:3:35:1266:54#0/1  
a\_Zab`X`\_`[a`aaaaYG\_ZTT^^YZ\_SZa[]T]\_WV\_  
@HWI-EAS443:3:35:1273:1776#0/1  
ATCAAAATCCTCGAATGTTCTGGCGATGATTACATATAT  
+HWI-EAS443:3:35:1273:1776#0/1  
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+HWI-EAS443:3:35:1275:552#0/1  
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+HWI-EAS443:3:35:157:303#0/1  
`a\_aa\_aa`aaa\_`a\_\_`a\_[V\_[\_\_a`V^XU`V^^\_^]`  
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+HWI-EAS443:3:35:1584:1360#0/1  
a]a]Z]]a`GV]`\_\_QX`]WOL]\_Z^¥R¥^UWXX[ST\_U^  
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+HWI-EAS443:3:35:160:1711#0/1  
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+HWI-EAS443:3:35:1781:841#0/1  
aaa]a[aaa`aaaa¥`aa`]`\_]`VaaUaaaa`a]]¥`X`  
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+HWI-EAS443:3:35:263:1099#0/1  
aaZV^Z¥TH¥\_YNQ]aU]\_P[^a¥ZU^^U^V^^W^Z[^ZW  
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+HWI-EAS443:3:35:335:432#0/1  
aaa`aaa```aaa^Va`\_`a`\_`\_`\_]`^U¥^[Y[]^]U]



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GAAAAAGGAGAGTAAGAGACAACATGACCAAGAAGATGGT  
+HWI-EAS443:3:35:548:98#0/1  
aaaa\_¥aaaa^a]`aaaa\_`\_a```]^\_\_`^Z]\_^`\_`\_Z  
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TGACAAAGGGATTACAGGGGATTACAAAGTCTTCCCCGATA  
+HWI-EAS443:3:35:592:1760#0/1  
aY]a[b^Y``[``aba\_\_a¥\_aa]aa\_\_Z`]X\_aaa\_¥`\_`  
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+HWI-EAS443:3:35:616:397#0/1  
abS^[^\_[GXa]]RU\_YLXTV]\_YUU]^XTVVU[]S]VPY  
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+HWI-EAS443:3:35:716:1637#0/1  
]])a¥`\_Z¥\_a^Z^b¥\_\_Y`Yaba`a^[Z^a¥V^b`XaUW  
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+HWI-EAS443:3:35:747:1024#0/1  
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+HWI-EAS443:3:35:905:1260#0/1  
¥¥H¥Ma``a[YYY¥\_[bb``abZaaaa\_Z`]\_ba\_a]¥Q  
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+HWI-EAS443:3:35:97:1261#0/1  
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@HWI-EAS443:3:36:1011:902#0/1  
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+HWI-EAS443:3:36:1011:902#0/1  
aabba`a`^`b`aaa`aaaaaaaaaab`\_a`^````aa`\_a  
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+HWI-EAS443:3:36:1067:1477#0/1  
ZZXQV\_a`\_a^¥W^[¥aa\_a\_a^Y\_aY\_\_WS[] [¥Z¥Z\_  
@HWI-EAS443:3:36:1384:431#0/1  
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+HWI-EAS443:3:36:1384:431#0/1  
abbbbaab^aa\_aaa`^b\_b`a`abaa\_]`baaaa`a\_aa  
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+HWI-EAS443:3:36:143:1322#0/1  
[\_Y\_abaa^`ab\_a^`[^b^babaa`]]WHWT`\_]]\_``  
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+HWI-EAS443:3:36:1442:1203#0/1  
\_VO\_a[`a[[WLSY¥Y`V[\_Ta^[P]\_Z\_Y[]]YSX^]TN  
@HWI-EAS443:3:36:1728:482#0/1  
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+HWI-EAS443:3:36:1783:1883#0/1  
X`baa\_bbb¥bbbb\_^`JUVbb``X¥^b]^^¥^bbb\_bb  
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+HWI-EAS443:3:36:229:1358#0/1  
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+HWI-EAS443:3:36:326:755#0/1  
aabbbbbbaaa^^`aaaaaaa`aaU`^a[¥¥^`^^aa\_¥¥¥  
@HWI-EAS443:3:36:364:344#0/1  
CAAATGTCCCTGTCTTATTTATATAGGACTTCTTTTTGCT  
+HWI-EAS443:3:36:364:344#0/1  
abaa`a\_aaaaa\_aaa`aaaaaa\_\_\_\_\_`a\_^\_```a[`\_]  
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+HWI-EAS443:3:36:406:1256#0/1  
aabaa\_YZba¥a\_W`]a¥^`aa^\_WXU`VXY\_¥``a^W  
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+HWI-EAS443:3:36:50:488#0/1  
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+HWI-EAS443:3:36:741:132#0/1  
^aabba`aa]\_\_^\_]\_`^VY[[YXYZVSUTUV]Y^W^  
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+HWI-EAS443:3:37:1040:82#0/1  
a`a\_aaaaaaab`bb`aab\_]a`a`a\_^a[a\_\_aa¥`a`^

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+HWI-EAS443:3:37:1086:1097#0/1  
a\_]`ababaa\_ba^baabaaa`a`a\_]TIY`\_`a`\_`a`  
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+HWI-EAS443:3:37:1180:454#0/1  
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+HWI-EAS443:3:37:1182:2000#0/1  
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+HWI-EAS443:3:37:1289:964#0/1  
`\_b¥babb[\_aaaa`bbaa`abb`aaaaWa\_X\_[^]`a`  
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+HWI-EAS443:3:37:1447:346#0/1  
^Z`Ua`\_`aabaaba0a`[\_`\_`a`\_`\_a]VaZ`XX)a^\_\_\_\_  
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+HWI-EAS443:3:37:146:1317#0/1  
a\_a\_aaaaaa^¥a`]a`^`a¥]¥P\_aaR[Ja\_^`\_`\_`\_`]  
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+HWI-EAS443:3:37:1698:1329#0/1  
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+HWI-EAS443:3:37:449:248#0/1  
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+HWI-EAS443:3:37:495:2040#0/1  
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+HWI-EAS443:3:37:604:1014#0/1  
aaaa`abbaaa`\_`a``\_\_]`¥`\_a`ZSN¥`X`\_^\_a\_\_  
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+HWI-EAS443:3:37:833:1097#0/1  
`b¥^aa\_]0^a]a^a`aa^`\_W]PZY`^UP¥¥K\_a[^`]W  
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a`a\_aaaa`aa^a`\_]\_¥\_a\_\_\_\_\_`^`\_Z]^Z^]]^]Y  
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+HWI-EAS443:3:37:95:100#0/1  
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+HWI-EAS443:3:38:1157:886#0/1  
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+HWI-EAS443:3:38:1259:965#0/1  
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+HWI-EAS443:3:38:1283:721#0/1  
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@HWI-EAS443:3:38:12:1292#0/1  
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+HWI-EAS443:3:38:12:1292#0/1  
¥^Z[\`baa\_U¥a]¥]\_aa\_RZ\_Y^¥Xa`WOZSRZa\_XFQ  
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+HWI-EAS443:3:38:1344:1086#0/1  
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+HWI-EAS443:3:38:1492:1596#0/1  
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+HWI-EAS443:3:38:1575:233#0/1  
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]P¥Y¥bWbbbb\_W\_aaa`aa\_`a`a\_\_\_YOSPSU^]S]QO  
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\_a]^¥\_a`^OX[V[\_aP¥`\_U\_`\_]\_\_XTLKXU]URUXXN  
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+HWI-EAS443:3:38:1636:576#0/1  
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\_Z\_GWab^^```XW]UY^]\_\_ZXN``¥[OFMMR¥Z^`¥Q  
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+HWI-EAS443:3:38:1721:617#0/1  
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+HWI-EAS443:3:38:402:250#0/1  
aaaa`baa^¥a]\_aa0ZR`^^`\_Y\_`a\_a\_\_Y]^`\_`\_\_^`\_  
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+HWI-EAS443:3:38:544:102#0/1  
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+HWI-EAS443:3:38:875:626#0/1  
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a`a`a`\_aba`baXaa`^\_¥`¥]^\_S¥W\_¥U¥¥U^^U^U  
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+HWI-EAS443:3:39:1504:1570#0/1  
¥X\_XUU\_a¥^ba^Za¥\_V\_Y]YX\_]\_HU\_ZRS[X[VZPP[  
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+HWI-EAS443:3:39:1556:1761#0/1  
\_Sa¥HUU`\_b`a^^`aaaPNZYX]`YP]BBBBBBBBBBBB

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\_R\_`^GNZ]VaQLU`^V`\_]V¥TXQSL`\_]`^T`\_`UW¥  
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a`aababaVa aa^aab\_Y`a`\_`ZW`\_\_\_`\_`\_[a`\_]`\_]  
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+HWI-EAS443:3:39:577:1557#0/1  
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+HWI-EAS443:3:39:663:409#0/1  
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+HWI-EAS443:3:39:790:1936#0/1  
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+HWI-EAS443:3:39:961:411#0/1  
aa`Z^baY]aaaa`\_`Taa[a\_\_aaaa]a¥[¥Z¥``YW  
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+HWI-EAS443:3:3:1161:1339#0/1  
]\_\_`a`^`^`^aab\_b\_baaaab`a\_aaa\_aa``\_a`aaS  
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+HWI-EAS443:3:3:1434:1129#0/1  
a` `b\_]a\_aWYaaXVJ¥U`^X` `aSaM^¥QXPYY`]N\_`^`  
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LYa`^abX`X`\_aZ\_XVZbba\_b^\_\_X[[[Yaaw`bIaI  
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+HWI-EAS443:3:3:25:71#0/1  
\_b^b`\_aaabbaaaaa`aaa^\_\_aa\_a]a````\_a`\_`\_`  
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aa`Maaaa\_]` `aa[aaaaZ`a\_a\_a\_\_`^`a\_[\_U^\_\_a



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aa]baabaa\_a\_\_aa[¥aaX])`R\_a`\_a\_aa`\_\_Y\_\_¥\_  
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@HWI-EAS443:3:3:696:136#0/1  
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+HWI-EAS443:3:3:696:136#0/1  
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+HWI-EAS443:3:3:820:811#0/1  
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+HWI-EAS443:3:3:846:549#0/1  
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+HWI-EAS443:3:3:878:1614#0/1  
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+HWI-EAS443:3:40:1188:493#0/1  
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+HWI-EAS443:3:40:1461:659#0/1  
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+HWI-EAS443:3:40:1742:1772#0/1  
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+HWI-EAS443:3:40:1749:1414#0/1  
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aaX]¥YVIZ`\_¥YU[\_[S[GY\_^\_ZQN^RHP]YVGT]^]  
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+HWI-EAS443:3:40:245:1936#0/1  
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+HWI-EAS443:3:40:386:237#0/1  
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+HWI-EAS443:3:40:406:53#0/1  
¥V¥\_aaa^`aa¥aaY`aX`X^`UTZ]G¥PXNX¥YTSZ[[T  
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GACTTCTTTTGTCTCATGTTGATTCCCCTAACTTGCAAGG  
+HWI-EAS443:3:40:417:1424#0/1  
`bbabbbabaaab```aa`a^Z`\_a`\_aaa¥aa\_\_`ba`¥

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+HWI-EAS443:3:40:602:1277#0/1  
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@HWI-EAS443:3:40:640:260#0/1  
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+HWI-EAS443:3:40:640:260#0/1  
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+HWI-EAS443:3:40:704:727#0/1  
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+HWI-EAS443:3:40:809:1410#0/1  
a``a¥¥\_\_]aaaaY¥^aaaaaaaa`aa^aaa^S\_a^`\_\_  
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+HWI-EAS443:3:42:1075:1661#0/1  
TV`¥¥`a^TZ\_R[^¥aa`\_W\_`[¥\_`\_\_\_\_]X\_`^V\_`baa  
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+HWI-EAS443:3:42:1102:1231#0/1  
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+HWI-EAS443:3:42:1154:244#0/1  
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+HWI-EAS443:3:42:1176:599#0/1  
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+HWI-EAS443:3:42:1462:1805#0/1  
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+HWI-EAS443:3:42:1675:226#0/1  
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+HWI-EAS443:3:42:206:403#0/1  
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+HWI-EAS443:3:42:263:1300#0/1  
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+HWI-EAS443:3:42:704:1169#0/1  
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+HWI-EAS443:3:42:809:834#0/1  
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+HWI-EAS443:3:42:821:193#0/1  
ab\_Q[\_Z`aaaaXa\_aa\_`aa`\_`\_a¥]^Y\_\_ZX]`a]R  
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CTAGCATGGTGGAGGCCATGGTGTCTAGGGCCCGGATTGA  
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+HWI-EAS443:3:43:1106:169#0/1  
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+HWI-EAS443:3:43:12:480#0/1  
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+HWI-EAS443:3:43:1442:461#0/1  
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GGGACATTTGAATTCACAAGCTTTTTTTATCGCTATGGAT  
+HWI-EAS443:3:43:1442:741#0/1  
^`U\_]`^`ba]S\_¥``aa¥H\_¥]PQ`a]a^^]Y]^]¥ab[^  
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AGACCGTTGGAATTTCTAGCATGGTGGAGCCATGGTGT  
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TTTGAATTCACAAGCTTTTTTTATCGCTATGGATTTGTGG  
+HWI-EAS443:3:43:1587:513#0/1  
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+HWI-EAS443:3:43:1728:1353#0/1  
]aaS^^a¥\_\_S]RX`UW¥`¥Z`^^^^R`]¥[PGaTKZLa`  
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+HWI-EAS443:3:43:294:734#0/1  
aa`a`\_ba¥aaaa`a`a`\_\_`aa`\_]aa`\_`[`\_`^^^  
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abbbbabbbbbaabbb`ba`aaaaabbbbbaaaaa^aa]  
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+HWI-EAS443:3:43:522:1706#0/1  
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+HWI-EAS443:3:43:608:1558#0/1  
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aab`a`a`\_aaaaa`Zbaa^\_aaaa^`a`aW`a`\_\_\_\_T

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ab`bba``bbbababbbbab^^aaaaa``a`aU^````  
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aabaa\_Z^abbabaaa`a\_aabaa^aa\_a]`a[¥`Za\_¥0  
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+HWI-EAS443:3:43:886:1235#0/1  
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GTTCTTCAATGGTGAACAGATCTTCATGATCTCAGAGAA  
+HWI-EAS443:3:43:901:24#0/1  
`Y^`a`a`\_aaXa\_]\_]Qa]^X\_\_\_Z¥^Z]X\_WT[¥]]S  
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+HWI-EAS443:3:43:914:1206#0/1  
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+HWI-EAS443:3:44:1418:527#0/1  
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GTGGAATGAAAATCAAATCCTCGAATGTTCTCTGGCGATG  
+HWI-EAS443:3:44:1736:544#0/1  
a^ba`abaaa`aa\_aa``\_a\_a``]\_]a`\_^[]`]^a^^]  
@HWI-EAS443:3:44:1744:1583#0/1  
GGTTGATTTCTGTTTAATGTCCAATCATAAGTCTGGCGAC

+HWI-EAS443:3:44:1744:1583#0/1  
[\_Ha\_P`^X\_`[^`aZ`aP[[YW`W\_a`YaTW\_\_[R\_ZU  
@HWI-EAS443:3:44:1785:277#0/1  
GGGCCCTAGACACCATGGCCTCCACCATGCTAGAAATTCC  
+HWI-EAS443:3:44:1785:277#0/1  
abaaaaaaaa¥aa^a\_`V`¥`^¥\_WV¥\_\_V¥[\_^^¥¥[QW  
@HWI-EAS443:3:44:237:929#0/1  
GGAGGATCTCCAGTATAAGGGAATGTGGTGCTTATGGCAT  
+HWI-EAS443:3:44:237:929#0/1  
aaaaa`a`a`^a\_`a^^a\_a^^`\_Y`\_X`^a\_`\_\_\_\_X\_  
@HWI-EAS443:3:44:247:945#0/1  
CTGGGGACAACACTAAGTGGAAATGAAAATCAAAATCCTCG  
+HWI-EAS443:3:44:247:945#0/1  
abbab`aab¥a`aaa^a\_a^aa\_aaaa^`aaaa]`\_`\_  
@HWI-EAS443:3:44:404:422#0/1  
GGAATTTCTAGCATGGTGGAGGCCATGGTGTCTAGGGCCC  
+HWI-EAS443:3:44:404:422#0/1  
[aT[a[b\_ZV¥T¥[`XPX¥b\_TURZU¥UGLLJGUZHQ]MR  
@HWI-EAS443:3:44:43:1559#0/1  
ATTTATATAGGACTTCTTTTTGCTCATGTTGATTCCCACT  
+HWI-EAS443:3:44:43:1559#0/1  
abbbabaab^\_aaaa\_aaaaaZ````a```\_`a\_a\_\_^`]  
@HWI-EAS443:3:44:599:583#0/1  
CCAGCGCAAAATGCCATAAGCACCATTCCTTATACTG  
+HWI-EAS443:3:44:599:583#0/1  
``[aaaaaa`^`]\_aaabbaa`[^\_¥a¥\_a[VaV]¥Y]^`  
@HWI-EAS443:3:44:754:526#0/1  
GACAACACTAAGTGGAAATGAAAATCAAAATCCTCGAATGT  
+HWI-EAS443:3:44:754:526#0/1  
aabaa^a`aab\_bbaaab`aa`a`aa`aaaa\_a``aa\_  
@HWI-EAS443:3:44:834:731#0/1  
CGGTTGATTTCTGTTAATGTCCAATCATAAGTCTGGCGA  
+HWI-EAS443:3:44:834:731#0/1  
aab`bbabbbabbabbbbabbaab`abaab`^aaa\_a\_  
@HWI-EAS443:3:44:906:1169#0/1  
ATCTGTTCATCCTCAAGAATCCCCCTTGGCTTGTGTTGA  
+HWI-EAS443:3:44:906:1169#0/1  
aaaa\_\_aaba`aaaaa^aaaa`\_`aaa`\_aa\_\_^\_a`]  
@HWI-EAS443:3:45:1028:768#0/1  
ATACAGCCATGGAACAGGAACAGGATACACCATGGACACA  
+HWI-EAS443:3:45:1028:768#0/1  
``ab`bb]\_aba]a`aba]`\_]a^^a``a\_]Z\_``\_`¥]`  
@HWI-EAS443:3:45:1143:1019#0/1  
GTCTTATTTATATAGGACTTCTTTTTGCTCATGTTGATTC  
+HWI-EAS443:3:45:1143:1019#0/1  
aaabbabbbabaaa`a\_aba\_aabaab`\_a`aaaa\_a\_a  
@HWI-EAS443:3:45:1365:763#0/1  
TGCCGTTGATTTCTGTTAATGTCCAATCATAAGTCTGG  
+HWI-EAS443:3:45:1365:763#0/1  
^b¥`aa`]ZY]\_aZ^b\_`^`a`aa¥[```aa```]\_ZR``Z



@HWI-EAS443:3:45:1380:796#0/1  
GACCGTTGGAATTTCTAGCATGGTGGAGGCCATGGTGTC  
+HWI-EAS443:3:45:1380:796#0/1  
aaaaab]bbbaZaaa]a\_]^\_aaWaY[¥¥S^YYV`S^WU  
@HWI-EAS443:3:45:1446:1153#0/1  
GGTTGATTTCTGTTTAATGTCCAATCATAAGTCTGGCGAC  
+HWI-EAS443:3:45:1446:1153#0/1  
aa\_aa]aaa\_`a\_aa^aa^ZZ`\_`[``Y`Z\_aa]^`][  
@HWI-EAS443:3:45:1517:583#0/1  
GCTTTTTTATCGCTATGGATTTGTGGCTAATTTTAGCAT  
+HWI-EAS443:3:45:1517:583#0/1  
aaaaaabbbaa\_b\_a\_a\_a\_a`\_]`aa¥^`\_\_a``USQNY  
@HWI-EAS443:3:45:1655:622#0/1  
CGCCAGGAACATTCGAGGATTTTGATTTTCATCCACTTA  
+HWI-EAS443:3:45:1655:622#0/1  
`a`\_`bbaaZaaaa`\_baWaabaa`aaaa`aaaa^``aa\_  
@HWI-EAS443:3:45:220:503#0/1  
GGTCGCCAGACTTATGATTGGACATTAACAGAAATCAAC  
+HWI-EAS443:3:45:220:503#0/1  
`b^abbabb`abbabbbbaa`aabaaaabbabaa\_ab`  
@HWI-EAS443:3:45:316:225#0/1  
CTGACAAAGGGATTACAGGGATTACAAAGTCTTCCCGAT  
+HWI-EAS443:3:45:316:225#0/1  
`]\_]aabb`U`aba``bbaa``[aSaa`bY^`\_\_\_\_\_Xa`]  
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ACTTCTTTTTGCTCATGTTGATTCCCACTAACTTGCAGGT  
+HWI-EAS443:3:45:339:1942#0/1  
a\_a`W[aa\_a\_WX¥aaaZ\_aa\_`[R]\_¥`aUfK\_¥]^LI  
@HWI-EAS443:3:45:404:539#0/1  
AATTTCTAGCATGGTGGAGGCCATGGTGTCTAGGGCCCGG  
+HWI-EAS443:3:45:404:539#0/1  
aaba]^aaaa`a`Ua^¥aZ\_^^`^RU[^S¥^]¥¥WXV^  
@HWI-EAS443:3:45:434:913#0/1  
TGCCGTTGATTTCTGTTTAATGTCCAATCATAAGTCTGG  
+HWI-EAS443:3:45:434:913#0/1  
aba\_bb]ba``bb`ababa`aa``¥T\_a`\_¥baa`\_\_aa\_  
@HWI-EAS443:3:45:619:239#0/1  
GTGTCCATGGTGTATCCTGTTCCCTGTTCCATGGCTGTATG  
+HWI-EAS443:3:45:619:239#0/1  
a\_a¥\_a``]a^a\_``¥`a`\_a`\_a]^\_\_U^^Y¥^BBBBBB  
@HWI-EAS443:3:45:669:433#0/1  
GGACAACACTAAGTGAATGAAAATCAAAATCCTCGAATG  
+HWI-EAS443:3:45:669:433#0/1  
abaaab\_babaab\_bbaabbaaaaa\_aaa```¥a`aa\_aa  
@HWI-EAS443:3:45:730:471#0/1  
CCGGTTGATTTCTGTTTAATGTCCAATCATAAGTCTGGCG  
+HWI-EAS443:3:45:730:471#0/1  
`〕``[\_\_L^aYTR\_W`YZ¥`YT\_[N^W[\_P¥Y¥^X\_[MY  
@HWI-EAS443:3:46:1140:1626#0/1  
ACTTCTTTTTGCTCATGTTGATTCCCACTAACTTGCAGGT



@HWI-EAS443:3:46:574:41#0/1  
TCTCGATACTGAATCTTGGACAAAAGAAATACACCAAGAC  
+HWI-EAS443:3:46:574:41#0/1  
a`aab```]aa`Wa\_\_\_`a\_\_`^]`a]`\_\_\_]`\_^]]`^X  
@HWI-EAS443:3:46:635:708#0/1  
GCGCAAATGCCATAAGCACCACATTCCCTTATACTGGAG  
+HWI-EAS443:3:46:635:708#0/1  
a[^a`b]ab`]\_`abba^Xa`a```¥¥`\_`\_aaa¥^`\_\_a  
@HWI-EAS443:3:46:844:69#0/1  
GGAGGATCTCCAGTATAAGGGAATGTGGTGCTTATGGCAT  
+HWI-EAS443:3:46:844:69#0/1  
abaabaaaa`\_\_b^\_a`\_bba^\_aa[a\_Za]\_\_\_^`\_`[[^  
@HWI-EAS443:3:47:100:89#0/1  
GTCCATGGTGTATCCTGTTCCCTGTTCCATGGCTGTATGGA  
+HWI-EAS443:3:47:100:89#0/1  
a\_UQ\_```VaS\_\_QXV\_[¥QY^`Y¥VWVX[VSBTTTTTTTT  
@HWI-EAS443:3:47:1275:277#0/1  
GAATTCACAAGCTTTTTTATCGCTATGGATTTGTGGCTA  
+HWI-EAS443:3:47:1275:277#0/1  
aa\_`aa`]^a^\_a^aaaa\_][aXa]^\_Y]\_\_\_\_]^ZW[¥  
@HWI-EAS443:3:47:1325:163#0/1  
AGACTGTTCAAGCTTTTTTCGCAAATGCTCCTAGCTAAAGTT  
+HWI-EAS443:3:47:1325:163#0/1  
¥Y^[abaa`Z]aaa`^`\_T[Ya]TU¥¥S]QTQTUOX\_QV  
@HWI-EAS443:3:47:1369:1798#0/1  
CACTTCTGGTACATCTGTTTCATCCTCAAGAATCCCCTTT  
+HWI-EAS443:3:47:1369:1798#0/1  
ababbb`abab\_a`a\_\_ab`a`a\_\_`a`\_`^\_\_X^^\_a`^  
@HWI-EAS443:3:47:1394:436#0/1  
CAAGGTCATTGTTTATCATGTTGTTCTTTATCACTGTTAC  
+HWI-EAS443:3:47:1394:436#0/1  
¥abaaa`bbbaabb¥^aab`b^aabbaaa`^a\_Z]`]Z  
@HWI-EAS443:3:47:1551:1739#0/1  
GCCGGTTGATTTCTGTTAATGTCCAATCATAAGTCTGGC  
+HWI-EAS443:3:47:1551:1739#0/1  
aaaaa\_bbaaaa[`b`ba\_\_aa]YX`\_\_\_]\_aaa\_]\_\_^]  
@HWI-EAS443:3:47:1553:656#0/1  
TGCCGGTTGATTTCTGTTAATGTCCAATCATAAGTCTGG  
+HWI-EAS443:3:47:1553:656#0/1  
abaabbabbaaba]aa]aa`\_`a\_`]\_\_`a`a`]Y[^]\_`  
@HWI-EAS443:3:47:1658:434#0/1  
ATTTGAATTCACAAGCTTTTTTATCGCTATGGATTTGTG  
+HWI-EAS443:3:47:1658:434#0/1  
abbbbbabbab`aab\_aabbbaaaaaXa^`\_`^aaY\_`a\_Z¥  
@HWI-EAS443:3:47:1746:1739#0/1  
GACAACACTAAGTGAATGAAAATCAAATCCTCGAATGT  
+HWI-EAS443:3:47:1746:1739#0/1  
ab¥YQW`Ya`T]X`\_N[R\_aSIZ]X]^`[WJFT[RL^`WZ  
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+HWI-EAS443:3:47:1786:1074#0/1  
abbaab^bbaaba[aaa\_a`\_^¥`]W`^¥U^[^¥S¥¥^¥S  
@HWI-EAS443:3:47:203:500#0/1  
GTGGGAATCAACATGAGCAAAAAGAAGTCCTATATAAATA  
+HWI-EAS443:3:47:203:500#0/1  
a`bba\_a`ab`aaa`aaa````\_a\_`]a^a\_`aa`a^a`  
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CAATGGTGGAACAGATCTTCATGATCTCAGAGAACTCTTC  
+HWI-EAS443:3:47:206:340#0/1  
aab\_aaXb`bb`bb`]b`b`WaaYRba\_`T^]aWaYa^Q  
@HWI-EAS443:3:47:441:1857#0/1  
ATGCCAGCCCATGGTCCAGCCAAAAGCATGGAATATGATG  
+HWI-EAS443:3:47:441:1857#0/1  
`b]Z^aaaa^a`PLM\_a``]a\_\_TQ`^][\_\_¥\_`RWPS  
@HWI-EAS443:3:47:45:314#0/1  
GCCGGTTGATTTCTGTTAATGTCCAATCATAAGTCTGGC  
+HWI-EAS443:3:47:45:314#0/1  
aaaa`VZ¥IV^`]Z[Q^`]WTYQMY¥XNLVWXYXBBBBBB  
@HWI-EAS443:3:47:585:1086#0/1  
TGGGAGTCTCGATACTGAATCTTGGACAAAAGAAATACAC  
+HWI-EAS443:3:47:585:1086#0/1  
aa]¥``]\_]S]Y[T]`\_Y[]\_]RNUZ^a^XQ¥U^WUT[Z  
@HWI-EAS443:3:47:623:1940#0/1  
AAAAGCTTGTGAATTCAAATGTCCCTGTCTTATTTATATA  
+HWI-EAS443:3:47:623:1940#0/1  
abb^aaab\_UWaaa`0\_a`a¥]YZXaaXX\_]a\_a\_a^a\_  
@HWI-EAS443:3:47:634:1566#0/1  
GAGTTCTTCAATGGTGGAACAGATCTTCATGATCTCAGAG  
+HWI-EAS443:3:47:634:1566#0/1  
`VXYTRW^`¥a\_\_RR[`]RLUYV]\_[¥QW[TQROV]VR[Y  
@HWI-EAS443:3:47:699:1532#0/1  
AGCACTTCTGGTACATCTGTTTCATCCTCAAGAATCCCCT  
+HWI-EAS443:3:47:699:1532#0/1  
[`]aaba\_abb`aababa`\_``aaa`a\_`\_aZ\_aa`]]\_`  
@HWI-EAS443:3:47:700:970#0/1  
AGGACTTCTTTTTGCTCATGTTGATTCCCCTAACTTGCA  
+HWI-EAS443:3:47:700:970#0/1  
`bba`b`a]ba`aa`a]aab\_a`W^TX[LZ]``^\_Y^¥[  
@HWI-EAS443:3:47:907:1509#0/1  
ACTGGGACAACACTAAGTGGAAATGAAAATCAAATCCTC  
+HWI-EAS443:3:47:907:1509#0/1  
```a^V^`^S\_GZY¥V]¥X]SVba\_Q`aa]J]]b`YT]F  
@HWI-EAS443:3:47:907:167#0/1
GGTGTATTTCTTTTGTCCAAGATTGAGTATCGAGACTCCC
+HWI-EAS443:3:47:907:167#0/1
`^Ya^aaa`]aaaa_`_^`a^__U[_]_`]`^WZ^]]X
@HWI-EAS443:3:47:956:507#0/1
GCTGCCGGTTGATTTCTGTTAATGTCCAATCATAAGTCT
+HWI-EAS443:3:47:956:507#0/1
aabb_b_b_T`ba_aaaaa`aaY`]a`__a`aaW[`

@HWI-EAS443:3:47:986:991#0/1
GAAAAAGGAGAGTAAGAGACAACATGACCAAGAAGATGGT
+HWI-EAS443:3:47:986:991#0/1
aa`Uaba_b`aU`aaaa^aa`_`a_]Z__`_^_____X
@HWI-EAS443:3:48:1119:1470#0/1
TCTCGATACTGAATCTTGGACAAAAGAAATACACCAAGAC
+HWI-EAS443:3:48:1119:1470#0/1
aa`_aZ^_Za`a]a_aa`[^_a`_]a____`][_^_]
@HWI-EAS443:3:48:1188:647#0/1
GGAGTCTCGATACTGAATCTTGGACAAAAGAAATACACCA
+HWI-EAS443:3:48:1188:647#0/1
aa¥¥H_a]__[_`_PY__`[_`_NX_]S¥`][ZZYT[RWW
@HWI-EAS443:3:48:1205:1073#0/1
CAAAGGGATTGAGGGATTACAAAGTCTTCCCGATAATC
+HWI-EAS443:3:48:1205:1073#0/1
aaZXaZ`YYaW¥YZa`bab^^aaaaPJ¥]RWZP`X[[`¥Y
@HWI-EAS443:3:48:1223:1429#0/1
GTGGGAATCAACATGAGCAAAAAGAAGTCCTATATAAATA
+HWI-EAS443:3:48:1223:1429#0/1
a`¥`[T^bNbb`ab`_a`a`ba_aaa_^_a_a`ba__a_
@HWI-EAS443:3:48:1278:1084#0/1
GAGTTCTTCAATGGTGGAACAGATCTTCATGATCTCAGAG
+HWI-EAS443:3:48:1278:1084#0/1
aS^]__ZXZ_^_^]^QLWX^]PTT_]WW^_YYYYTY]Z]
@HWI-EAS443:3:48:1393:1570#0/1
TCCCTGTCTTATTTATATAGGACTTCTTTTTGCTCATGTT
+HWI-EAS443:3:48:1393:1570#0/1
]ba^a^]a`_^a^¥`a`a`_^¥_a]]_a`Y`__`a]¥
@HWI-EAS443:3:48:1549:1563#0/1
CACCACATCCCTTATACTGGAGATCCTCCATACAGCCAT
+HWI-EAS443:3:48:1549:1563#0/1
abaVaaWa]a^````bbb]T]Za`a[]]_¥[^`ZX_[X^¥
@HWI-EAS443:3:48:1597:1187#0/1
CGCCAGACTTATGATTGGACATTAACAGAAATCAACCGG
+HWI-EAS443:3:48:1597:1187#0/1
a`]b^[^ab[bbaaba`TWaa]__a^aa`^[^`_`SZ_P
@HWI-EAS443:3:48:1652:1517#0/1
AAAAAGCTTGTGAATTCAAATGTCCCTGTCTTATTTATA
+HWI-EAS443:3:48:1652:1517#0/1
aba^^b_b_aa¥b__aa`aYRZXZ^]]a_Y^a_W____^`_
@HWI-EAS443:3:48:1719:212#0/1
GGACAACACTAAGTGAATGAAAATCAAAATCCTCGAATG
+HWI-EAS443:3:48:1719:212#0/1
`H]¥QWW^¥WUMaW`[Z^_a^Y[]]__^^]]YZ][_Y[^_
@HWI-EAS443:3:48:1772:754#0/1
GCCATAAGCACCACATTCCTTATACTGGAGATCCTCCAT
+HWI-EAS443:3:48:1772:754#0/1
aa_aaaab_b`_a[`a`_^aaa_a__¥[^`^ZVZ[UWY[
@HWI-EAS443:3:48:196:1437#0/1
ATCCTGTTCTGTTCCATGGCTGTATGGAGGATCTCCAGT

+HWI-EAS443:3:48:196:1437#0/1
a^_``_b`b`_aa`]a`___BBBBBBBBBBBBBBBBBBB
@HWI-EAS443:3:48:233:769#0/1
GGGGAATTCTTGAGGATGAACAGATGTACCAGAAGTGCTG
+HWI-EAS443:3:48:233:769#0/1
L]XMUZ`Haa¥Z__`][__V][^^][^X^_^]]^QYXX¥
@HWI-EAS443:3:48:464:1257#0/1
GTGTCCATGGTGTATCCTGTTCCCTGTTCCATGGCTGTATG
+HWI-EAS443:3:48:464:1257#0/1
a¥_XVZX`__R`[_`[¥]a^a¥[`a^_[X]¥_T]X¥KRXX
@HWI-EAS443:3:48:617:1021#0/1
GTGGGAATCAACATGAGCAAAAAGAAGTCCTATATAAATA
+HWI-EAS443:3:48:617:1021#0/1
``aa]Z`¥`ab__``[aaa[U`a[a_`^^]`_`¥`_`_`]
@HWI-EAS443:3:48:668:1044#0/1
AATGCAGTTGCTGCCGTTGATTTCTGTTTAATGTCCAAT
+HWI-EAS443:3:48:668:1044#0/1
aaaa¥¥a```__a_^X`Za[PY__`^`^`aZ`X`Y]X]^S
@HWI-EAS443:3:48:726:361#0/1
CTTTGTTGAAACTTTAGCTAGGAGCATTTCGAAAAGCTT
+HWI-EAS443:3:48:726:361#0/1
a`)]`][`¥]_]_^aY][¥Va¥`]R[]WS^a]SZ_¥aTXZ
@HWI-EAS443:3:48:991:707#0/1
CGGCATCATATTCCATGCTTTTGGCTGGACCATGGGCTGG
+HWI-EAS443:3:48:991:707#0/1
abbbaaa`abbbaabbbabbbabbaabaa`_]aa_X¥_a
@HWI-EAS443:3:49:1102:1844#0/1
TAAAATTAGCCACAAATCCATAGCGATAAAAAAAGCTTGT
+HWI-EAS443:3:49:1102:1844#0/1
abaaaaaaaaaa^`aaa`_aa`a¥a```a`a`a`_`[^`^`^`
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CTGCCGTTGATTTCTGTTTAATGTCCAATCATAAGTCTG
+HWI-EAS443:3:49:1123:1784#0/1
aabbaba`bbabbbabaaabaabb`aaaaaaaaaaa`_aa
@HWI-EAS443:3:49:1252:1640#0/1
ACCACATTCCCTTATACTGGAGATCCTCCATACAGCCATG
+HWI-EAS443:3:49:1252:1640#0/1
aa_R`_`^]_]`aa_aWZ``]¥]N[U[XS^V[V_[UVZ_[
@HWI-EAS443:3:49:1264:407#0/1
GTCATGTTGATTCCCACTAATTGCAGTCTCTGAGAAT
+HWI-EAS443:3:49:1264:407#0/1
a_a`aaaaab¥aa___`_aa`]``a__aaX^^a_[^`___
@HWI-EAS443:3:49:138:203#0/1
ATACAGCCATGGAACAGGAACAGGATACACCATGGACACA
+HWI-EAS443:3:49:138:203#0/1
a`bab`baa_ZT`a`_aa_a[aaaa__[_]^`_`ZZV`Y¥
@HWI-EAS443:3:49:1526:44#0/1
TGCCGTTGATTTCTGTTTAATGTCCAATCATAAGTCTGG
+HWI-EAS443:3:49:1526:44#0/1
^bVJb¥ZbabbabI¥bba_a_a]Y_FTX`_aa^a]_a^aa

@HWI-EAS443:3:49:1773:945#0/1
GTTCTTCAATGGTGAACAGATCTTCATGATCTCAGAGAA
+HWI-EAS443:3:49:1773:945#0/1
aa`b`_a_aa]`a]]_a^_Y_`^_[aX^[Y^Z^Z^Z
@HWI-EAS443:3:49:210:1025#0/1
ATCAAAATCCTCGAATGTTCTGCGATGATTACATATAT
+HWI-EAS443:3:49:210:1025#0/1
aa`bbbbbaabbabbb]aaa_aaab``aa`aZa`aaaa
@HWI-EAS443:3:49:234:184#0/1
GTCCAAGGTCATTGTTTATCATGTTGTTCTTTATCACTGT
+HWI-EAS443:3:49:234:184#0/1
aaa__aaaYU]aaaZaa^Y]``^_a___`a`_`^^¥`]^
@HWI-EAS443:3:49:291:1566#0/1
CGAGGATTTTGATTTTCATTCCACTTAGTGTTGTCCCCAG
+HWI-EAS443:3:49:291:1566#0/1
aaabbbbbbbabab^bbaaaaabaaaa_aaa
@HWI-EAS443:3:49:31:1056#0/1
ATCTGTTCATCCTCAAGAATCCCCCTTTGGCTTGTGTTGA
+HWI-EAS443:3:49:31:1056#0/1
aaaaa``]]_a`abaaaa_`_`a[aZ[Y__SYZ[^]V
@HWI-EAS443:3:49:531:728#0/1
TAGCATGGTGGAGCCATGGTGTCTAGGGCCCGATTGAT
+HWI-EAS443:3:49:531:728#0/1
[a`ba`^W^aaXQ`[X^_Qa^aZL_a`]Wa]WMTa[XQ
@HWI-EAS443:3:49:615:1432#0/1
GTCATTGTTTATCATGTTGTTCTTTATCACTGTTACTCCA
+HWI-EAS443:3:49:615:1432#0/1
aR^a_VRX_]W[RQ[ZW_a[]P[[a]^]UOZ`[^SHVGQZ
@HWI-EAS443:3:49:617:1382#0/1
TCCATGGTGTATCCTGTTCCCTGTTCCATGGCTGTATGGAG
+HWI-EAS443:3:49:617:1382#0/1
aaabaab^a]`aaa`b`a_`aaU_[_¥aa¥`aa[[UUMNY
@HWI-EAS443:3:49:917:1041#0/1
CTTTTTGCTCATGTTGATTCCCACTAATTGCAGGCCTG
+HWI-EAS443:3:49:917:1041#0/1
abbabbbbbabbbbbbbba`ababbbabba`babaabb
@HWI-EAS443:3:49:976:387#0/1
GTTGGAATTTCTAGCATGGTGGAGCCATGGTGTCTAGGG
+HWI-EAS443:3:49:976:387#0/1
aaab_```a^X`a`_`a^W_Z^_¥U]¥¥¥YPYUSUW¥WU
@HWI-EAS443:3:4:1043:309#0/1
GCTGTATGGAGGATCTCCAGTATAAGGGAATGTGGTGCTT
+HWI-EAS443:3:4:1043:309#0/1
_¥]]Y[]ZWTP¥GPY`NLIXUZXTY[¥FSUUN¥ZNB
@HWI-EAS443:3:4:1145:40#0/1
TAGCATGGTGGAGCCATGGTGTCTAGGGCCCGATTGAT
+HWI-EAS443:3:4:1145:40#0/1
a¥a_a^_a]`a]aX]¥`YT¥ULWPPW^[YFPFZXSK]BBB
@HWI-EAS443:3:4:1182:189#0/1
GTTGCAACGGCATCATATCCATGCTTTTGGCTGGACCAT

+HWI-EAS443:3:4:1182:189#0/1
aaa_a`^`a[_^__`]Y`[U^`U¥`¥¥¥^Y¥_ZUVVBB
@HWI-EAS443:3:4:122:1641#0/1
CAAAATGCCATAAGCACCATTCCTTATACTGGAGATC
+HWI-EAS443:3:4:122:1641#0/1
a`aaaaa`_a_b_a^a`_`^a_^[¥_a_a_a_]^^`__B
@HWI-EAS443:3:4:1325:1094#0/1
CATGGTGGAGGCCATGGTGTCTAGGGCCCGGATTGATGCC
+HWI-EAS443:3:4:1325:1094#0/1
aaaaa`aa_____`[^`[a]¥Z^^aX¥¥`aVV¥¥UT`VX
@HWI-EAS443:3:4:1411:1221#0/1
GGACAACACTAAGTGAATGAAAATCAAAATCCTCGAATG
+HWI-EAS443:3:4:1411:1221#0/1
aa`_`^a`__aZ`^`aa__`^`^`^^`^`X^¥_]^^
@HWI-EAS443:3:4:1419:1429#0/1
ACCGTTGGAATTTCTAGCATGGTGGAGGCCATGGTGTCT
+HWI-EAS443:3:4:1419:1429#0/1
aaZab]abaaaV`a]^_baZa`b¥a_¥]]VS¥XU`MaWUY
@HWI-EAS443:3:4:1433:653#0/1
GAAAAAGGAGAGTAAGAGACAACATGACCAAGAAGATGGT
+HWI-EAS443:3:4:1433:653#0/1
aXNW[ZRNP[^_]`^`QQa^0_¥MU]]WPM]W¥XYNX¥^B
@HWI-EAS443:3:4:155:1249#0/1
CATCCTCAAGAATTCCCCTTTGGCTTGTGTTGAGAATAGA
+HWI-EAS443:3:4:155:1249#0/1
aabbbbb_]]][_ba`_`abaa^^abba]aa]YKSO^R¥BB
@HWI-EAS443:3:4:1599:2008#0/1
CATTGAGGATTTTGATTTTCATTCCACTTAGTGTGTCC
+HWI-EAS443:3:4:1599:2008#0/1
Sabb_babbbbab`bbabbbbaaba_b¥babb_b`_b]ba
@HWI-EAS443:3:4:1636:1886#0/1
CAACACTAAGTGAATGAAAATCAAAATCCTCGAATGTTC
+HWI-EAS443:3:4:1636:1886#0/1
`^a_a`_`_a¥W__Zaaaab^b^`b¥aa]URZ][aP`_UXL
@HWI-EAS443:3:4:1684:1128#0/1
GTTCTTCAATGGTGAACAGATCTTCATGATCTCAGAGAA
+HWI-EAS443:3:4:1684:1128#0/1
a[a`_a]^`^`__V¥WX____`]RJZ¥]]^`_XXXYW]_Z]^Z
@HWI-EAS443:3:4:1756:1233#0/1
TTTGAATTCACAAGCTTTTTTTATCGCTATGGATTTGTGG
+HWI-EAS443:3:4:1756:1233#0/1
`aa]a``]a]^`_a`baa`aab`_`_a`aaaW`_aa_a[
@HWI-EAS443:3:4:185:1281#0/1
TGGGGACAACACTAAGTGAATGAAAATCAAAATCCTCGA
+HWI-EAS443:3:4:185:1281#0/1
ab`_baab`ababa`_^a]^`a_a`a_aa_bbabbb^_a¥`a
@HWI-EAS443:3:4:497:759#0/1
AGCGATAAAAAAGCTTGTGAATTCAAATGTCCCTGTCTT
+HWI-EAS443:3:4:497:759#0/1
`bV_]¥_Z`_a]_TaYbMb`_a]P]X[T]W^Z]]`V^a¥

@HWI-EAS443:3:4:505:1000#0/1
GAGACCGTTGGAATTTCTAGCATGGTGGAGGCCATGGTG
+HWI-EAS443:3:4:505:1000#0/1
``a`aba¥]ZZaaaaXa`X`S_aaVP__SZVS^^^^M_
@HWI-EAS443:3:4:663:1093#0/1
ACTTCTGGTACATCTGTTTCATCCTCAAGAATCCCCCTTTG
+HWI-EAS443:3:4:663:1093#0/1
aWaaab`aXa_aaa`_a`a]^^`a]a_¥¥`0^^Ya^`_
@HWI-EAS443:3:4:665:709#0/1
ACCACATTCCCTTATACTGGAGATCCTCCATACAGCCATG
+HWI-EAS443:3:4:665:709#0/1
aaaaaaaaa^_aaaaa^`aa`a__Zaa_]``¥`^V^__
@HWI-EAS443:3:4:775:1923#0/1
AAGCACCATTCCTTATACTGGAGATCCTCCATACAGC
+HWI-EAS443:3:4:775:1923#0/1
[¥XaaSab_]¥Z¥[TaZ_¥a[L^Y¥^]_X_[`FVZV[_]U
@HWI-EAS443:3:4:826:927#0/1
TGTTTCATCCTCAAGAATCCCCCTTTGGCTTGTGTTGAGAA
+HWI-EAS443:3:4:826:927#0/1
abYa`_a`_bab_bababa^b_bbbbb[aaa^`Ta`]]Ua
@HWI-EAS443:3:4:925:1376#0/1
CAACACTAAGTGAATGAAAATCAAATCCTCGAATGTTC
+HWI-EAS443:3:4:925:1376#0/1
a_aZb`_`_aa]aaaa`aa__aaa`a`a]Z`_`_Zaa^^X
@HWI-EAS443:3:4:949:609#0/1
GGTCCAGCCAAAAGCATGGAATATGATGCCGTTGCAACTA
+HWI-EAS443:3:4:949:609#0/1
aaXaS`_`WV_XT[VJ0Za¥`W]_`Ta_ZHRWZZ[RGBBBB
@HWI-EAS443:3:50:1008:1379#0/1
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+HWI-EAS443:3:50:1008:1379#0/1
aaaY`abbbaa`bZabYX]TQa`TGRaH[_]YXSXF0^Z
@HWI-EAS443:3:50:1017:1125#0/1
GCATCATATTCCATGCTTTTGGCTGGACCATGGGCTGGCA
+HWI-EAS443:3:50:1017:1125#0/1
abbbbbbbbbbbbbbbbabababba]_]a[`ZW`_`_V^
@HWI-EAS443:3:50:1158:1269#0/1
ATTTATATAGGACTTCTTTTTGCTCATGTTGATTCCCCT
+HWI-EAS443:3:50:1158:1269#0/1
abbbbbbbbabbbabbba`a`aabaababaaaa_a_a
@HWI-EAS443:3:50:1176:1553#0/1
GCCATAAGCACCATTCCTTATACTGGAGATCCTCCAT
+HWI-EAS443:3:50:1176:1553#0/1
a_H[ab^Q_aX^a^^`_¥X`a_]¥_V^aa`aXRYRY¥][
@HWI-EAS443:3:50:1264:1889#0/1
GGAGTAACAGTGATAAAGAACAACATGATAAACAATGACC
+HWI-EAS443:3:50:1264:1889#0/1
aabbYa`aaa^aaa[bba_a]a__aV]aaa`a][```_OX
@HWI-EAS443:3:50:1371:253#0/1
CTCTGTGTCTTGTGAATTAGTCATCATCTTTCTCACAACA

+HWI-EAS443:3:50:1371:253#0/1
`babbbba`bbbbabbbabb_bb_bbabbbababUbb`a
@HWI-EAS443:3:50:1504:232#0/1
CAACGGCATCATATCCATGCTTTTGGCTGGACCATGGGC
+HWI-EAS443:3:50:1504:232#0/1
aa_W_aV]a^¥`abab^¥Y_¥`baaaaaabaZV_Y_ZVX[
@HWI-EAS443:3:50:267:1008#0/1
GTTCTTCAATGGTGGAACAGATCTTCATGATCTCAGAGAA
+HWI-EAS443:3:50:267:1008#0/1
aaZ]X]ZQ[]ZZR^^^RXZ`Y__¥¥¥U¥aYUOVUZ^ZZ[]
@HWI-EAS443:3:50:279:480#0/1
TTCAAATGTCCCTGTCTTATTTATATAGGACTTCTTTTTG
+HWI-EAS443:3:50:279:480#0/1
]a_]QZa_IS_[ZWV]_¥_¥`_]_Z__`^[]YZa_a`^
@HWI-EAS443:3:50:283:68#0/1
GACCGTTGGAATTTCTAGCATGGTGGAGCCATGGTGTC
+HWI-EAS443:3:50:283:68#0/1
aa¥_aa¥`aaaa_a``````a]a¥`a¥`^¥^^`_[FV¥X
@HWI-EAS443:3:50:292:1148#0/1
CCAGCGCAAATGCCATAAGCACCATTCCTTATACTG
+HWI-EAS443:3:50:292:1148#0/1
aab^__aaa`bbbaabbbbaab`aaaa`a_a`a_aaa`X^
@HWI-EAS443:3:50:363:374#0/1
GAATTCAAATGTCCCTGTCTTATTTATATAGGACTTCTTT
+HWI-EAS443:3:50:363:374#0/1
a`_aaa`^a`^ZU¥aa]a_]aa`_^^``_]Y`_¥_]_
@HWI-EAS443:3:50:365:1848#0/1
GTTTAATGTCCAATCATAAGTCTGGCGACCTTGAGTTAGT
+HWI-EAS443:3:50:365:1848#0/1
]^`abaab^]__aa_a`a`W_¥aa[```[^a[a__W_X
@HWI-EAS443:3:50:556:595#0/1
AATTTCTAGCATGGTGGAGCCATGGTGTCTAGGGCCCGG
+HWI-EAS443:3:50:556:595#0/1
a]^b^bbb`^baaa_bbaab_T^_]YVYaY`X[T_]Y[]
@HWI-EAS443:3:50:632:1633#0/1
CAAAATGCCATAAGCACCATTCCTTATACTGGAGATC
+HWI-EAS443:3:50:632:1633#0/1
_baabbaaaaaa_abaa``abaaa`bbaabaaa¥`aa`_
@HWI-EAS443:3:50:632:920#0/1
ACTTTGTTGAACTTTAGCTAGGAGCATTTCGAAAAGCT
+HWI-EAS443:3:50:632:920#0/1
a]abbbabbaaababbaa^baba`a]aaba`Zb``a_a_a
@HWI-EAS443:3:50:703:1779#0/1
GAAAAAGGAGAGTAAGAGACAACATGACCAAGAAGATGGT
+HWI-EAS443:3:50:703:1779#0/1
`aa`abbbaaYb^`aa`ba__a_]_aU_]__a```_¥¥W
@HWI-EAS443:3:50:769:456#0/1
CTCCAGTATAAGGGAATGTGGTGCTTATGGCATTTCGCGC
+HWI-EAS443:3:50:769:456#0/1
aaa``_abb`^bbb^_¥b^[]W`ababa`^]Vabaaba_^

@HWI-EAS443:3:50:910:887#0/1
GGATCTCCAGTATAAGGGAATGTGGTGCTTATGGCATT
+HWI-EAS443:3:50:910:887#0/1
a_`baab¥^b_Xa¥]__b^aaa^`a¥`Xa_^a^^a``Vaa
@HWI-EAS443:3:51:100:1762#0/1
TGCCAGCCCATGGTCCAGCCAAAAGCATGGAATATGATGC
+HWI-EAS443:3:51:100:1762#0/1
]X_^¥_ab`__`]U]___^___YZ_]a`a^[X^X^¥YX`X
@HWI-EAS443:3:51:1205:1510#0/1
TTTCTAGCATGGTGGAGGCCATGGTGTCTAGGGCCCGGAT
+HWI-EAS443:3:51:1205:1510#0/1
ab_]aa``ba``¥_V]ZLZ`Yaa¥¥]^_]X``]SY[a_TT
@HWI-EAS443:3:51:1251:663#0/1
TGCTCATGTTGATTCCCCTAACTTGCAGGTCCTGTAGAA
+HWI-EAS443:3:51:1251:663#0/1
abbaU[aba^baaaa`_a`a``Zaa^abaUW^a^X¥T`a
@HWI-EAS443:3:51:1412:1889#0/1
ATTTCTAGCATGGTGGAGGCCATGGTGTCTAGGGCCCGGA
+HWI-EAS443:3:51:1412:1889#0/1
_bbb`bbbaa```_a_aaa`]a`a`Ua_^^`_a^SY¥^_^
@HWI-EAS443:3:51:1588:529#0/1
AGCACTTCTGGTACATCTGTTTCATCCTCAAGAATCCCCT
+HWI-EAS443:3:51:1588:529#0/1
a[]`Sab¥a]aaa`aaa`W]a````__^^[a````_QXY_
@HWI-EAS443:3:51:1763:1922#0/1
GAATTCAAATGTCCCTGTCTTATTTATATAGGACTTCTTT
+HWI-EAS443:3:51:1763:1922#0/1
`[O]Y¥a]]WSX¥RZZ]^VXa[`_]_a`_] [aZ`a`_`^]
@HWI-EAS443:3:51:297:1253#0/1
GAAAATCAAATCCTCGAATGTTCCCTGGCGATGATTACAT
+HWI-EAS443:3:51:297:1253#0/1
^a_QU[a^bb_W¥ba]aaaaaa]_aa__`¥``R[`ZZJ`
@HWI-EAS443:3:51:342:1066#0/1
GCCGGTTGATTTCTGTTAATGTCCAATCATAAGTCTGGC
+HWI-EAS443:3:51:342:1066#0/1
aabbbaa```abbaababba`bb_aaaabaabaaaa`aaaa
@HWI-EAS443:3:51:40:1973#0/1
CAAATGCCATAAGCACCACATTCCTTATACTGGAGATC
+HWI-EAS443:3:51:40:1973#0/1
abbbbbbaababbbabbaaaaba_[^aaaa_aa_a_a_¥
@HWI-EAS443:3:51:534:1044#0/1
ACCGTTGGAATTTCTAGCATGGTGGAGGCCATGGTGTCT
+HWI-EAS443:3:51:534:1044#0/1
abaa`_bbbb``ba]b^W`]b`a]ba¥]^]a^[`aPZ^__
@HWI-EAS443:3:51:541:589#0/1
GTTGGAATTTCTAGCATGGTGGAGGCCATGGTGTCTAGGG
+HWI-EAS443:3:51:541:589#0/1
aZabaaYaa^ba__^Ua`¥GaYU¥WT[QSSSMXUSPPUWU
@HWI-EAS443:3:51:574:1124#0/1
GAGTCTTCAATGGTGAACAGATCTTCATGATCTCAGAG

+HWI-EAS443:3:51:574:1124#0/1
aa[YabaaaaaZZ`_aaa__aa[_aaaaaa_a_a`[¥``
@HWI-EAS443:3:52:1022:703#0/1
GAGTTCTTCAATGGTGGAACAGATCTTCATGATCTCAGAG
+HWI-EAS443:3:52:1022:703#0/1
`_]_¥a`bbaaaaba^aaa`_`b[_aaa^`a_a]a`a]^a
@HWI-EAS443:3:52:1038:1355#0/1
CACTTCTGGTACATCTGTTTCATCCTCAAGAATCCCCTTT
+HWI-EAS443:3:52:1038:1355#0/1
ababbabaa_aaaa`baaa`aaaaaab`aaaaa^``aa_
@HWI-EAS443:3:52:1094:224#0/1
GCATCATATTCCATGCTTTTGGCTGGACCATGGGCTGGCA
+HWI-EAS443:3:52:1094:224#0/1
[¥`¥W_bb_ZUTWaaa]b^¥WZ_aa^T]]^¥UQ[QBBBBB
@HWI-EAS443:3:52:1110:405#0/1
TTCCTGTTCCATGGCTGTATGGAGGATCTCCAGTATAAGG
+HWI-EAS443:3:52:1110:405#0/1
aaa^a]```__a`a_a_R]_PYZV[LNQMS¥SY[U^SWV]
@HWI-EAS443:3:52:1218:1691#0/1
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+HWI-EAS443:3:52:1218:1691#0/1
aabbabb`aaUabb`aaabb`b_Y`b_baaa`ababa`a
@HWI-EAS443:3:52:127:1494#0/1
ATGCCAGCCCATGGTCCAGCCAAAAGCATGGAATATGATG
+HWI-EAS443:3:52:127:1494#0/1
aaaa``_aa__`_V¥`_¥^¥Z`__Q`W^_W¥[^^^Y^N
@HWI-EAS443:3:52:1299:1880#0/1
GAGTCTCGATACTGAATCTTGGACAAAAGAAATACACCAA
+HWI-EAS443:3:52:1299:1880#0/1
V__¥_a`bZa^_^__0__a[_VT_]¥^^_b^`^_a`Ja_
@HWI-EAS443:3:52:1305:872#0/1
GGGGAATTCTTGAGGATGAACAGATGTACCAGAAGTGCTG
+HWI-EAS443:3:52:1305:872#0/1
abaa`aba`aaa`¥`¥ba`__a_`^V`^]_a_[aX_]_a
@HWI-EAS443:3:52:1367:1999#0/1
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+HWI-EAS443:3:52:1367:1999#0/1
_bbaa[aX^__aabab_a`aa`]a^ZYa^`[_`a_a_]_¥
@HWI-EAS443:3:52:1467:631#0/1
GCCGGTTGATTTCTGTTTAATGTCCAATCATAAGTCTGGC
+HWI-EAS443:3:52:1467:631#0/1
`a`^aaa^_aaaa`X[aaaabYZa`a`]`aaa]¥_a_[¥
@HWI-EAS443:3:52:1521:347#0/1
ATTTCTAGCATGGTGGAGGCCATGGTGTCTAGGGCCCGGA
+HWI-EAS443:3:52:1521:347#0/1
abba^aa`aaba`Y^¥]a]^Q`¥¥]UV^S^^Q^YU[VUVU
@HWI-EAS443:3:52:1577:169#0/1
CAAATGCCATAAGCACCACATTCCTTATACTGGAGATC
+HWI-EAS443:3:52:1577:169#0/1
abababb_]`bb`baaa[a^aaaaS`a``aa[a¥R¥a_] [

@HWI-EAS443:3:52:1603:26#0/1
AGAAAAAGGAGAGTAAGAGACAACATGACCAAGAAGATGG
+HWI-EAS443:3:52:1603:26#0/1
abab_aabbaa[a`a^_`a^aa_a^`^YX^`a^`a__a`
@HWI-EAS443:3:52:262:2004#0/1
CGAGGATTTTGATTTTCATTCCACTTAGTGTTGTCCCCAG
+HWI-EAS443:3:52:262:2004#0/1
a`^a```aaa^aaaaabaaaa`a`_[Ya]`_`````^__
@HWI-EAS443:3:52:383:1324#0/1
AGTTCTTCAATGGTGAACAGATCTTCATGATCTCAGAGA
+HWI-EAS443:3:52:383:1324#0/1
``Xab_ba_^`_`¥ab^X__aaa^aaaa_¥_aa__a`^`^
@HWI-EAS443:3:52:558:701#0/1
GTTGCAACGGCATCATATCCATGCTTTTGGCTGGACCAT
+HWI-EAS443:3:52:558:701#0/1
a_`aZ`aa`___`X[a_`¥_[`^`_`_`_]V^`_`[[UWY
@HWI-EAS443:3:52:627:348#0/1
GTTCTGTCCATGGCTGTATGGAGGATCTCCAGTATAAG
+HWI-EAS443:3:52:627:348#0/1
a_`a`ab`a^a_aa`^`TTTUQFY]LONSX[^UTT WVY
@HWI-EAS443:3:52:712:1909#0/1
ACGGCATCATATCCATGCTTTTGGCTGGACCATGGGCTG
+HWI-EAS443:3:52:712:1909#0/1
`aS]]`YVaZa^____TU_[_a_R¥W¥ZUUSZU¥_]SS¥
@HWI-EAS443:3:52:806:1655#0/1
AAAATGCCATAAGCACCACATTCCTTATACTGGAGATCC
+HWI-EAS443:3:52:806:1655#0/1
abaa^¥aa`aa__WaY_a¥__^_]^^^_`^a]]]W]]_WV]
@HWI-EAS443:3:52:815:555#0/1
AATTTCTAGCATGGTGGAGCCATGGTGTCTAGGGCCCGG
+HWI-EAS443:3:52:815:555#0/1
a^bbbababababa¥a]_a_aa_`aaZ`^¥¥^^Y^[[Ua]
@HWI-EAS443:3:52:907:1123#0/1
GCAACGGCATCATATCCATGCTTTTGGCTGGACCATGGG
+HWI-EAS443:3:52:907:1123#0/1
`^]_a`a_`aaa`aa`aaa`¥aaa_[`_`_XXWWU¥__a
@HWI-EAS443:3:52:970:917#0/1
CCAGCGCAAATGCCATAAGCACCACATTCCTTATACTG
+HWI-EAS443:3:52:970:917#0/1
abab`bbbbbbbababbaabaaaabbaa_aabab_aa
@HWI-EAS443:3:53:1028:1068#0/1
ATCAAAATCCTCGAATGTTCTGGCGATGATTACATATAT
+HWI-EAS443:3:53:1028:1068#0/1
abaa[`bbbaaab_abb`a_aaaa`b`_a`U`R]a```a
@HWI-EAS443:3:53:1131:896#0/1
GTGGAACAGATCTTCATGATCTCAGAGA ACTCTTCTTCT
+HWI-EAS443:3:53:1131:896#0/1
_]`^I¥_V]aaaa`Uaba_`^`a_a`_Z]baa`Xaa_
@HWI-EAS443:3:53:1397:447#0/1
CAAAGGGATT CAGGGATTACAAAGTCTTCCCCGATAATC

+HWI-EAS443:3:53:1397:447#0/1
abbbbbbbab`bbbabbbbabababaabbbbaZ^aaba_b]
@HWI-EAS443:3:53:1435:91#0/1
ATAAAAAAGCTTGTGAATTCAAATGTCCCTGTCTTATTT
+HWI-EAS443:3:53:1435:91#0/1
abaabaaaababaaabaabaaaaabbaa¥_a_a_ab^aa_
@HWI-EAS443:3:53:211:936#0/1
GAAAATCAAATCCTCGAATGTTCCCTGGCGATGATTACAT
+HWI-EAS443:3:53:211:936#0/1
a`Z]X^^^a]^^]Y`YaVa`aZXO]UaU_OHQTKX[PN[^
@HWI-EAS443:3:53:254:96#0/1
GGACAACACTAAGTGAATGAAAATCAAATCCTCGAATG
+HWI-EAS443:3:53:254:96#0/1
aaRa`¥N¥_]`¥b_ab]a`¥YZ^[`W^_¥_¥WOZP^__a^
@HWI-EAS443:3:53:398:463#0/1
TGCCAGCCCATGGTCCAGCCAAAAGCATGGAATATGATGC
+HWI-EAS443:3:53:398:463#0/1
ababbaaaabbbbaZa_aaa^a^¥a`_a`a`a_aaa__aa¥
@HWI-EAS443:3:53:419:373#0/1
GCCAGCCCATGGTCCAGCCAAAAGCATGGAATATGATGCC
+HWI-EAS443:3:53:419:373#0/1
a]aaa^`aa_abY]X]`aa^`]Q]`¥a``Z``]a__a¥¥
@HWI-EAS443:3:53:522:1128#0/1
AGGATTTTGTATTTTTCATTCCACTTAGTGTGTCCTCCAGTG
+HWI-EAS443:3:53:522:1128#0/1
a]]^bbbaa`¥`_`^a^a`aa[ba^aaa¥T¥Xb]X_aV[_
@HWI-EAS443:3:53:612:938#0/1
ATGCCAGCCCATGGTCCAGCCAAAAGCATGGAATATGATG
+HWI-EAS443:3:53:612:938#0/1
ab]abaaaaaaa_a[aa`a^``¥a`aaa[a^`_`aaaaaa_
@HWI-EAS443:3:53:662:468#0/1
CTTATACTGGAGATCCTCCATACAGCCATGGAACAGGAAC
+HWI-EAS443:3:53:662:468#0/1
aaabbbbbbbbaaaabaabaabaaaaa]^a[aa`[_`_
@HWI-EAS443:3:53:803:361#0/1
AGCTTTTTTTATCGCTATGGATTTGTGGCTAATTTTAGCA
+HWI-EAS443:3:53:803:361#0/1
ab_bbbbbbb`babaab__bbba_aa`aaaaaaXYZ^
@HWI-EAS443:3:53:808:1903#0/1
GTTCTTCAATGGTGAACAGATCTTCATGATCTCAGAGAA
+HWI-EAS443:3:53:808:1903#0/1
`bbZ]XbXbb¥SLW_bX¥SHP]b`]^abaa`U[Ya¥_K]¥
@HWI-EAS443:3:53:866:783#0/1
CGCAAATGCCATAAGCACCATTCCTTATACTGGAGA
+HWI-EAS443:3:53:866:783#0/1
ab`bbbbbbabbbbbabbb_bbbba_`bbaaaabaa`a
@HWI-EAS443:3:53:894:1075#0/1
CACTAAGTGAATGAAAATCAAATCCTCGAATGTTCCCTG
+HWI-EAS443:3:53:894:1075#0/1
a`J`]Z[bba^ba`¥`¥__a]abba^b`bZ[ab```_^_^

@HWI-EAS443:3:53:89:562#0/1
TGGGGACAACACTAAGTGAATGAAAATCAAATCCTCGA
+HWI-EAS443:3:53:89:562#0/1
abbaa]_Q_`a`aab^aa```aaaa_`_a`_W]a^_aa^
@HWI-EAS443:3:54:1141:440#0/1
GCCGGTTGATTTCTGTTAATGTCCAATCATAAGTCTGGC
+HWI-EAS443:3:54:1141:440#0/1
aaaabab_aabbaababbbabba`aaaaababaa`aaaa_
@HWI-EAS443:3:54:117:1543#0/1
ATTTGAATTCACAAGCTTTTTTATCGCTATGGATTTGTG
+HWI-EAS443:3:54:117:1543#0/1
a`aaabaaaabaaaa`aaaa`a`a_a__^aa`U[_aZX[
@HWI-EAS443:3:54:1282:1109#0/1
ATACTGGAGATCCTCCATACAGCCATGGAACAGGAACAGG
+HWI-EAS443:3:54:1282:1109#0/1
aabababba`b][aa``aa_ab[^`aaaYaZ_a_]a]`a_
@HWI-EAS443:3:54:1294:656#0/1
AAGCACCATTCCTTATACTGGAGATCCTCCATACAGC
+HWI-EAS443:3:54:1294:656#0/1
a]R^b]aa¥ab`^¥W_aaaba_a]_`S][Y[_`Za]`aU
@HWI-EAS443:3:54:1302:1070#0/1
CACTTCTGGTACATCTGTTTCATCCTCAAGAATCCCCTTT
+HWI-EAS443:3:54:1302:1070#0/1
__¥ba`baaYaabaYaaaaaabRU]ab``aa_`XQXU^a_
@HWI-EAS443:3:54:1330:902#0/1
CATCAATCCGGGCCCTAGACACCATGGCCTCCACCATGCT
+HWI-EAS443:3:54:1330:902#0/1
a_S_UZZ_V_]W)`X^V[^QXY]__^_^]_Y_GRTJMV[
@HWI-EAS443:3:54:1395:1368#0/1
GCCAAAGGGGAATTCTTGAGGATGAACAGATGTACCAGAA
+HWI-EAS443:3:54:1395:1368#0/1
aR`_^Sa`aaW]_aWaaaa_a__aa__`_][`]ZTZ^a¥]
@HWI-EAS443:3:54:1520:1295#0/1
GACAACACTAAGTGAATGAAAATCAAATCCTCGAATGT
+HWI-EAS443:3:54:1520:1295#0/1
a]Ta^Zaa]_a`````_aaa^^[a`aaaaa_`[_`^¥__^
@HWI-EAS443:3:54:1537:1662#0/1
ATCAAATCCTCGAATGTTCTGGCGATGATTACATATAT
+HWI-EAS443:3:54:1537:1662#0/1
aba¥¥bba^XY]_]Z]aaaYM¥`XT`_[_R``¥H]`]a[Z
@HWI-EAS443:3:54:1600:555#0/1
TAAGCACCATTCCTTATACTGGAGATCCTCCATACAG
+HWI-EAS443:3:54:1600:555#0/1
[¥b¥_ZZT`a_`ZZUabbaaaaaMXRZ^UGT`]Fabb¥`_
@HWI-EAS443:3:54:1619:1722#0/1
CACATTCCTGAAGTCTGCTTAAAATGGGAGCTAATGGATG
+HWI-EAS443:3:54:1619:1722#0/1
ababbbba¥aabaaa`b^_bbaaaabaaa`abaaabaaaa
@HWI-EAS443:3:54:166:1461#0/1
AATTTCTAGCATGGTGGAGCCATGGTGTCTAGGGCCCGG

+HWI-EAS443:3:54:166:1461#0/1
^Y_abbbb[[aaXPT[X`Z`¥W[YYVS`¥`]VF_YYY]
@HWI-EAS443:3:54:171:635#0/1
ATTTCTAGCATGGTGGAGGCCATGGTGTCTAGGGCCCGGA
+HWI-EAS443:3:54:171:635#0/1
abaab_¥baaabbM`a`aa¥`_aaaQ[¥Y¥`V¥`_`_aaY
@HWI-EAS443:3:54:201:534#0/1
GGAGGATCTCCAGTATAAGGGAATGTGGTGCTTATGGCAT
+HWI-EAS443:3:54:201:534#0/1
abaab¥abaaaab]`a`__^a_`_a_aa^a_aa``a]__`
@HWI-EAS443:3:54:515:183#0/1
GGGAATTCTTGAGGATGAACAGATGTACCAGAAGTGCTGC
+HWI-EAS443:3:54:515:183#0/1
a_a¥Ra^¥a``]`¥Y__]`_]_]XU_YY]_W]]X]ZX^Y
@HWI-EAS443:3:54:860:122#0/1
ATCCTGTTCTGTTCCATGGCTGTATGGAGGATCTCCAGT
+HWI-EAS443:3:54:860:122#0/1
aaa_abaa__ba_`_a^aba^`aRTUa]V_aNVQVPUN¥P
@HWI-EAS443:3:54:865:1864#0/1
TGTTCTGTTCCATGGCTGTATGGAGGATCTCCAGTATAA
+HWI-EAS443:3:54:865:1864#0/1
abaa[a``^aa^bbbV[aa[aa[YTUa`aY_W^[`a]`YY
@HWI-EAS443:3:54:989:1463#0/1
GAATTCAAATGTCCCTGTCTTATTTATATAGGACTTCTTT
+HWI-EAS443:3:54:989:1463#0/1
ababbabbabaaaaaba`_`aaabab_aaaaaa`^aa_aaa
@HWI-EAS443:3:54:990:1537#0/1
GAGTTCTTCAATGGTGGAACAGATCTTCATGATCTCAGAG
+HWI-EAS443:3:54:990:1537#0/1
ZY_G^__`XWa¥TUM^WX^SZ_YXZX]GZa`ZSHX_]a_a
@HWI-EAS443:3:55:1202:1262#0/1
AATTTCTAGCATGGTGGAGGCCATGGTGTCTAGGGCCCGG
+HWI-EAS443:3:55:1202:1262#0/1
aaW^`]a`aa``]]V`_`a_____`]]QZSWU___ZU`TaX
@HWI-EAS443:3:55:1222:836#0/1
AATTTCTAGCATGGTGGAGGCCATGGTGTCTAGGGCCCGG
+HWI-EAS443:3:55:1222:836#0/1
aabbaab_aa`a]_S`]aa^_a]`^WYS]¥PZ¥^¥X_W]_
@HWI-EAS443:3:55:1403:325#0/1
GCAACGGCATCATATTCCATGCTTTTGGCTGGACCATGGG
+HWI-EAS443:3:55:1403:325#0/1
aab`a`aba^`a`^`a`Z]`^ZY¥¥]``UN][YZ_Y
@HWI-EAS443:3:55:1461:1447#0/1
GTCCAGCCAAAAGCATGGAATATGATGCCGTTGCAACTAC
+HWI-EAS443:3:55:1461:1447#0/1
a]¥a]_]``b`TLX`^]aa_b`baaaa`_a[^aU_]a`W
@HWI-EAS443:3:55:1502:1095#0/1
AATCAAAATCCTCGAATGTTCTGCGGATGATTACATATA
+HWI-EAS443:3:55:1502:1095#0/1
aab`a``aaa_a^a^`_]¥a__a``¥a_a`U^aXX_`[_`_

@HWI-EAS443:3:55:1586:1041#0/1
TCCCTGTCTTATTTATATAGGACTTCTTTTTGCTCATGTT
+HWI-EAS443:3:55:1586:1041#0/1
aa`aab`abbabbbababaaaa_aa`abbaaaaa_aaa`a
@HWI-EAS443:3:55:1608:483#0/1
GGTGTATCCTGTTCCCTGTTCCATGGCTGTATGGAGGATCT
+HWI-EAS443:3:55:1608:483#0/1
aa`[^ba_aab`aYXbb`a]_`baa^ba]^XJ]LVa_¥X[
@HWI-EAS443:3:55:1627:710#0/1
CCGTTGATTTCTGTTTAATGTCCAATCATAAGTCTGGCG
+HWI-EAS443:3:55:1627:710#0/1
`^^¥Sa¥UY`aU`babbbabbbXabbbabbbb`_``abbb
@HWI-EAS443:3:55:308:972#0/1
GCGCAAATGCCATAAGCACCATTCCTTATACTGGAG
+HWI-EAS443:3:55:308:972#0/1
__Y]UW]Xaa[]¥`R`_a]U]`[_`_]_____`¥[[LL_
@HWI-EAS443:3:55:326:994#0/1
GTTCTCAATGGTGAACAGATCTTCATGATCTCAGAGAA
+HWI-EAS443:3:55:326:994#0/1
^S]¥NXTYWQ¥OM¥WRV¥XXZ¥[XR][[KXQZZWXKTXS
@HWI-EAS443:3:55:370:543#0/1
CCTGTTCCCTGTTCCATGGCTGTATGGAGGATCTCCAGTAT
+HWI-EAS443:3:55:370:543#0/1
ab¥WV^¥Xaa]aZ]S`]T`BBBBBBBBBBBBBBBBBBBB
@HWI-EAS443:3:55:415:1644#0/1
ATCAAATCCTCGAATGTTCCCTGGCGATGATTACATATAT
+HWI-EAS443:3:55:415:1644#0/1
aaaaabb`^¥`a`__a``Y`WW`^[a`_aX^¥`^^^_```
@HWI-EAS443:3:55:429:1507#0/1
TTCCAGCGCAAATGCCATAAGCACCATTCCTTATACTGGA
+HWI-EAS443:3:55:429:1507#0/1
ab`a`^a`baa`aaa]`aaa]_a`_a^`a`_] [a_aaa_
@HWI-EAS443:3:55:42:1767#0/1
ATTTCTAGCATGGTGGAGGCCATGGTGTCTAGGGCCCGGA
+HWI-EAS443:3:55:42:1767#0/1
`R_a]`^`V`WVaPa`_KHX¥¥U¥UPO¥PQPMSUUO0^¥S
@HWI-EAS443:3:55:448:778#0/1
AGCGCAAATGCCATAAGCACCATTCCTTATACTGGA
+HWI-EAS443:3:55:448:778#0/1
abababbbaaabaaba^babbaaaaaaaaa_aaaaa`a`
@HWI-EAS443:3:55:459:1366#0/1
AGAAAAAGGAGAGTAAGAGACAACATGACCAAGAAGATGG
+HWI-EAS443:3:55:459:1366#0/1
`b]ab¥YZabbIUZaaa¥aba`]aa_^J]`[`WbX¥baaa_
@HWI-EAS443:3:55:480:1385#0/1
CATGGTCCAGCCAAAAGCATGGAATATGATGCCGTTGCAA
+HWI-EAS443:3:55:480:1385#0/1
^X[S¥`bb^_Q`_aR]ZUQQH]Z`X`[a_[]ZX[_`W`]
@HWI-EAS443:3:55:502:20#0/1
ATTTCTAGCATGGTGGAGGCCATGGTGTCTAGGGCCCGGA

+HWI-EAS443:3:55:502:20#0/1
_¥`_a]__Z¥`b_Z] ^T_YU^a_a^W^^¥Q[^^^]VYX^`X
@HWI-EAS443:3:55:532:237#0/1
AATTTCTAGCATGGTGGAGGCCATGGTGTCTAGGGCCCCGG
+HWI-EAS443:3:55:532:237#0/1
aaabaa`aa```a]Va`_^__`¥^^_P¥¥^W^¥^[SUS^¥
@HWI-EAS443:3:55:594:125#0/1
GAATTCTTGAGGATGAACAGATGTACCAGAAGTGCTGCAA
+HWI-EAS443:3:55:594:125#0/1
aa_aa`baaaba]_a`_]`a__aX`]]^a^^aZ`]]a]^P
@HWI-EAS443:3:55:616:664#0/1
GCAACGGCATCATATTCCATGCTTTTGGCTGGACCATGGG
+HWI-EAS443:3:55:616:664#0/1
aaa¥_baWXaaaaa`__`^¥^`aaa][_` [XP¥_URT]^
@HWI-EAS443:3:55:697:1614#0/1
CATTCGAGGATTTTGATTTTCATTCCACTTAGTGTGTCC
+HWI-EAS443:3:55:697:1614#0/1
abbb`abbbabbbbbabbbbbbbbababbbb_aabbaba
@HWI-EAS443:3:55:803:499#0/1
CGCCAGACTTATGATTGGACATTAACAGAAATCAACCGG
+HWI-EAS443:3:55:803:499#0/1
X_Z[a`¥^abb^` [¥b_W¥^babY¥¥Va`] _`bb` ¥YRY]
@HWI-EAS443:3:55:827:1123#0/1
TGCCGTTGATTTCTGTTTAATGTCCAATCATAAGTCTGG
+HWI-EAS443:3:55:827:1123#0/1
[aabbXaaIaaaaTZS]aaaL [SWWUUY]`^^_ ^O]¥
@HWI-EAS443:3:55:830:180#0/1
GAGTTCTTCAATGGTGAACAGATCTTCATGATCTCAGAG
+HWI-EAS443:3:55:830:180#0/1
a_b^a`_^a`_a^Xa___¥`_]_Za`^^__^^]_X]]^
@HWI-EAS443:3:55:873:1668#0/1
GTTCTTCAATGGTGAACAGATCTTCATGATCTCAGAGAA
+HWI-EAS443:3:55:873:1668#0/1
`aa`baa`aaaa__`_aaa^`^aa^a`aaa^`_a^`_aa
@HWI-EAS443:3:55:98:882#0/1
GACTGTTCAAGCTTTTCGCAAATGCTCCTAGCTAAAGTTT
+HWI-EAS443:3:55:98:882#0/1
^`b```bbabaabbbbaa^^X]a`Waa_¥]__Y_a__V]^
@HWI-EAS443:3:56:1009:458#0/1
GAGTTCTTCAATGGTGAACAGATCTTCATGATCTCAGAG
+HWI-EAS443:3:56:1009:458#0/1
^W^V`aaa]]^X_a``]Y]YZa]UT^[^ZQ`[^U^X_TZ¥
@HWI-EAS443:3:56:1044:405#0/1
TGCCAGCCCATGGTCCAGCCAAAAGCATGGAATATGATGC
+HWI-EAS443:3:56:1044:405#0/1
¥`ba`^aaabab`VX````U]aaa_``Z`aaa`a`^]aaV
@HWI-EAS443:3:56:1052:1060#0/1
CTGGGGACAACACTAAGTGAATGAAAATCAAAATCCTCG
+HWI-EAS443:3:56:1052:1060#0/1
``a`^aa¥`_a`a^ZX`^aa_]_ba_a_b_bb_V_a]^

@HWI-EAS443:3:56:129:2023#0/1
GCCGGTTGATTTCTGTTAATGTCCAATCATAAGTCTGGC
+HWI-EAS443:3:56:129:2023#0/1
`^XabY^b]`_^]¥_HYaa¥`XTSaaT^a¥XaT`Xa_aZZ
@HWI-EAS443:3:56:1370:942#0/1
AATTTCTAGCATGGTGGAGGCCATGGTGTCTAGGGCCCCGG
+HWI-EAS443:3:56:1370:942#0/1
a_``_V_a`aZ`^^[¥aS_¥Z¥^Z^_`MYYY^XMNTVUTBB
@HWI-EAS443:3:56:1478:242#0/1
ATGGTGAACAGATCTTCATGATCTCAGAGAACTCTTCTT
+HWI-EAS443:3:56:1478:242#0/1
abb``b`baY^ba[_aaS`a`Waa_W^a_aYVL^Q_aYa`
@HWI-EAS443:3:56:156:773#0/1
TGGGGACAACACTAAGTGAATGAAAATCAAAATCCTCGA
+HWI-EAS443:3:56:156:773#0/1
^aS`a0_`¥`bbb^R_M]baR`a]¥RVaaXIVW¥^WYX]`
@HWI-EAS443:3:56:1675:1207#0/1
GCCGGTTGATTTCTGTTAATGTCCAATCATAAGTCTGGC
+HWI-EAS443:3:56:1675:1207#0/1
aa__abbbabbbabbaabb_bb_a`a`b_aaaaa_`baa_
@HWI-EAS443:3:56:1786:364#0/1
CTTTGTTGAAACTTTAGCTAGGAGCATTTCGAAAAGCTT
+HWI-EAS443:3:56:1786:364#0/1
abbb`_bbaaa`babb__aa^]`^a^^aaa``aaa`[a^``
@HWI-EAS443:3:56:367:284#0/1
CACTGGGGACAACACTAAGTGAATGAAAATCAAAATCCT
+HWI-EAS443:3:56:367:284#0/1
`babbbbbbbaa``baaaXabaabbab_aaaaaaab`a
@HWI-EAS443:3:56:396:591#0/1
CAAAGGGATTACAGGGATTACAAAGTCTTCCCCGATAATC
+HWI-EAS443:3:56:396:591#0/1
Z¥bU_bbb¥_baa`bb_Zbbaa`_]¥aaaaa]^b[a`Y`U
@HWI-EAS443:3:56:518:422#0/1
CTGGGGACAACACTAAGTGAATGAAAATCAAAATCCTCG
+HWI-EAS443:3:56:518:422#0/1
abbbbbb^V`bbbabb¥baaabbababbab`aaba_aaa
@HWI-EAS443:3:56:533:1118#0/1
GACTTCTTTTTGCTCATGTTGATTCCCACTAACTTGCAGG
+HWI-EAS443:3:56:533:1118#0/1
aaaaaaba`aaaaWZ_aaaaaa_`^a_aa`_`a]`_]`_`
@HWI-EAS443:3:56:579:796#0/1
AAAAAGGAGAGTAAGAGACAACATGACCAAGAAGATGGTC
+HWI-EAS443:3:56:579:796#0/1
_ZQYV`^^`_a[_Z]`a_baa_`^¥_]_Y`^``]VU¥_]`
@HWI-EAS443:3:56:589:931#0/1
ATTTCTAGCATGGTGGAGGCCATGGTGTCTAGGGCCCCGA
+HWI-EAS443:3:56:589:931#0/1
aa`a`aabab¥baWaa_aa_[`a¥XMU_S]^XYZY`_`T
@HWI-EAS443:3:56:645:1233#0/1
ACTTCTTTTTGCTCATGTTGATTCCCACTAACTTGCAGGT

+HWI-EAS443:3:56:645:1233#0/1
aaababbbbbbbaaaba^aaaaa_`aa```aaaaa__¥`^
@HWI-EAS443:3:56:730:1314#0/1
ACTAAGTGAATGAAAATCAAATCCTCGAATGTTCCCTGG
+HWI-EAS443:3:56:730:1314#0/1
`aa_SaZ¥XabXR¥]]X_`aa]_[`Z¥[_Ia`¥0¥_`¥¥V
@HWI-EAS443:3:56:735:345#0/1
AAGCACCACATTCCCTTATACTGGAGATCCTCCATACAGC
+HWI-EAS443:3:56:735:345#0/1
aa`_aa_a__aaa^`aaaa`¥]_¥^`^_¥Y`^^__^]_]W
@HWI-EAS443:3:56:768:268#0/1
AAAATCAAATCCTCGAATGTTCCCTGGCGATGATTACATA
+HWI-EAS443:3:56:768:268#0/1
abaaaabaabaaaaaa_aa`[^`^_aa`_a^a]]^ZW_^^
@HWI-EAS443:3:56:787:1551#0/1
AATGCAGTTGCTGCCGTTGATTTCTGTTTAATGTCCAAT
+HWI-EAS443:3:56:787:1551#0/1
`a`b`aabab_bb^_ba^a^_bbaSb```ba[a`]Z``aa
@HWI-EAS443:3:56:822:610#0/1
TCTGTGCTTGTGAATTAGTCATCATCTTTCTCACAACAT
+HWI-EAS443:3:56:822:610#0/1
abaa_`]abbaQaa`_a_b^_aa__a]aaa`baa`^`[__
@HWI-EAS443:3:56:897:1142#0/1
GTCTCGATACTGAATCTTGGACAAAAGAAATACACCAAGA
+HWI-EAS443:3:56:897:1142#0/1
RXX_VaZ`WW¥U_Q____`a_X]ZZXZ_NWZWT_]aX_ab`
@HWI-EAS443:3:56:977:766#0/1
ATTTATATAGGACTTCTTTTTGCTCATGTTGATTCCCCT
+HWI-EAS443:3:56:977:766#0/1
a``ZabZ_¥a^_a_aa`[a^`])`XM_bVa`]¥ba`_^Ya
@HWI-EAS443:3:56:984:375#0/1
AGGTCGCCAGACTTATGATTGGACATTAACAGAAATCAA
+HWI-EAS443:3:56:984:375#0/1
a^`_Ybaaba`aa`baababaa_`aaa]``bb`aaa^aa
@HWI-EAS443:3:56:990:1949#0/1
GGACTTCTTTTTGCTCATGTTGATTCCCCTAACTTGCAG
+HWI-EAS443:3:56:990:1949#0/1
aa]aaba¥_]`[bT^JVbaRLa¥b_TNL]^a`]GSX___a
@HWI-EAS443:3:57:1157:385#0/1
GGAGATCCTCCATACAGCCATGGAACAGGAACAGGATACA
+HWI-EAS443:3:57:1157:385#0/1
ab`bbaaabaaaab`aba_abba]aZ`baaa]aaa`^`[a
@HWI-EAS443:3:57:1312:288#0/1
TCCTGTTCTGTTCCATGGCTGTATGGAGGATCTCCAGTA
+HWI-EAS443:3:57:1312:288#0/1
aaaaa`baabbaaaaabbb]aaXV^^¥L__L[ZZ[ZU^BB
@HWI-EAS443:3:57:1421:1168#0/1
CGCAAATGCCATAAGCACCACATTCCTTATACTGGAGA
+HWI-EAS443:3:57:1421:1168#0/1
`_Sa`_`bba_aa^][a]N]```a¥^[T]`])`[^^[__^

@HWI-EAS443:3:57:1462:125#0/1
GCACCACATTCCCTTATACTGGAGATCCTCCATACAGCCA
+HWI-EAS443:3:57:1462:125#0/1
aab__a^aba`¥Vaaa_a_aaaW`¥[VU^_AZ_^]^¥QTU
@HWI-EAS443:3:57:1499:1042#0/1
TGCCGGTTGATTTCTGTTTAATGTCCAATCATAAGTCTGG
+HWI-EAS443:3:57:1499:1042#0/1
abaabb_ababbbab``baaaba_a_a``aaaa`]__a`_
@HWI-EAS443:3:57:1643:1793#0/1
AAATAAGACAGGGACATTTGAATTCACAAGCTTTTTTTAT
+HWI-EAS443:3:57:1643:1793#0/1
ab_aaaa`aa`a```aaaa[_aa_^]`_a¥`_`a`aa`a
@HWI-EAS443:3:57:170:590#0/1
GTTCTTCAATGGTGAACAGATCTTCATGATCTCAGAGAA
+HWI-EAS443:3:57:170:590#0/1
`Y`a_ba`a_aaN`aaa`a``^¥`a`_`^`^`[_^¥[XU
@HWI-EAS443:3:57:263:2020#0/1
ACATTCCTGAAGTCTGCTTAAAATGGGAGCTAATGGATGA
+HWI-EAS443:3:57:263:2020#0/1
aabaabaa_ba^]aa¥`aa`aa`WXU`]aa_``a]U__^
@HWI-EAS443:3:57:280:1739#0/1
ATTTATATAGGACTTCTTTTTGCTCATGTTGATTCCCACT
+HWI-EAS443:3:57:280:1739#0/1
abbbbaV``aa`baaaabaaa_`aa_aYa_aa`aWSa]a
@HWI-EAS443:3:57:291:707#0/1
CGAGGATTTTGATTTTCATTCCACTTAGTGTTGCCCCAG
+HWI-EAS443:3:57:291:707#0/1
aaXab^ababbabaaaaabaaaa_aaaa_a_aa_a___^`
@HWI-EAS443:3:57:366:1288#0/1
CTTTCACAATCACTGGGACAACACTAAGTGAATGAAAA
+HWI-EAS443:3:57:366:1288#0/1
``bbbbbabbbbaaaababbababbabababaabbaab
@HWI-EAS443:3:57:49:840#0/1
ATTTATATAGGACTTCTTTTTGCTCATGTTGATTCCCACT
+HWI-EAS443:3:57:49:840#0/1
¥^`__[YN^`ZXZ`¥T`aaaX_baZ^_baa_VY^YYW¥`W
@HWI-EAS443:3:57:686:154#0/1
GGGCCCTAGACACCATGGCCTCCACCATGCTAGAAATTCC
+HWI-EAS443:3:57:686:154#0/1
aaaVW]ZW]QYaY_XXPULRX[[RRVSQNPT[¥XRLTBBB
@HWI-EAS443:3:57:706:1182#0/1
CTGGAGATCCTCCATACAGCCATGGAACAGGAACAGGATA
+HWI-EAS443:3:57:706:1182#0/1
ab^^`^^^]ba]``aabaSW^a¥S_a_a````a`aa^Z_`
@HWI-EAS443:3:57:734:1823#0/1
ATTTCTAGCATGGTGGAGGCCATGGTGTCTAGGGCCCGGA
+HWI-EAS443:3:57:734:1823#0/1
¥¥abaabba^^_XZ``a¥`^]`WUXFNZPZ__V¥XTS¥¥B
@HWI-EAS443:3:57:776:1016#0/1
ATTTCTAGCATGGTGGAGGCCATGGTGTCTAGGGCCCGGA

+HWI-EAS443:3:57:776:1016#0/1
aaa`abaa`aa`XVaaaaZ_aa]X]UZUSX^]Z¥^`¥^aY
@HWI-EAS443:3:57:876:1223#0/1
CTGACAAAGGGATTACAGGGATTACAAAGTCTTCCCCGAT
+HWI-EAS443:3:57:876:1223#0/1
abbbab`abbbbba`ba[^aababaabaa`abb^a__aaa
@HWI-EAS443:3:57:949:724#0/1
GTAGTTGCAACGGCATCATATTCCATGCTTTTGGCTGGAC
+HWI-EAS443:3:57:949:724#0/1
]Uaa_a_XWa_XNXDXU]^`aaXQU`Q^`X¥_YXS_`BBB
@HWI-EAS443:3:57:950:189#0/1
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+HWI-EAS443:3:57:950:189#0/1
a^aY`Zaaa``aaaT`_^XTZ`W[¥`¥[^`_^U^YTW[_
@HWI-EAS443:3:58:1198:407#0/1
GGACTTCTTTTTGCTCATGTTGATTCCCACTAACTTGACAG
+HWI-EAS443:3:58:1198:407#0/1
a`VU^]W]^`¥[`[[NVYXY_]Y[NTNYTQUV¥NN¥SP_
@HWI-EAS443:3:58:1519:825#0/1
AAATGCCATAAGCACCACATTCCCTTATACTGGAGATCCT
+HWI-EAS443:3:58:1519:825#0/1
abbaaaaaaaaa`aa_a`aa`___aaaaa``aY^___^V_
@HWI-EAS443:3:58:1590:1082#0/1
GCACCACATTCCCTTATACTGGAGATCCTCCATACAGCCA
+HWI-EAS443:3:58:1590:1082#0/1
a`aaZaaabaa`_aa`aa_a````¥`___Y¥_a_¥_`WQU
@HWI-EAS443:3:58:356:542#0/1
GAATTCAAATGTCCCTGTCTTATTTATATAGGACTTCTTT
+HWI-EAS443:3:58:356:542#0/1
Va¥]V¥SS_Zb___]^¥¥`a`X`aaaZ]]`Q`[W^`T``¥
@HWI-EAS443:3:58:394:1072#0/1
GGGGACAACACTAAGTGAATGAAAATCAAAATCCTCGAA
+HWI-EAS443:3:58:394:1072#0/1
a¥QY^XWXX]^`[^¥a`[Y]^`^[_][_WRT^XX_]`^X
@HWI-EAS443:3:58:397:1203#0/1
ATTTATATAGGACTTCTTTTTGCTCATGTTGATTCCCACT
+HWI-EAS443:3:58:397:1203#0/1
abbbbaabbb__bbabbbbbaaaaaabaaaaaa_``a¥a
@HWI-EAS443:3:58:446:80#0/1
ATGGTGGAGGCCATGGTGTCTAGGGCCCGATTGATGCCA
+HWI-EAS443:3:58:446:80#0/1
`aaTa`X`^`^``[P^]TQ]_¥R¥T`]NX^¥SR¥SSP
@HWI-EAS443:3:58:476:1746#0/1
ATTTCTAGCATGGTGGAGGCCATGGTGTCTAGGGCCCGGA
+HWI-EAS443:3:58:476:1746#0/1
a_a^a_`^ba_QVX^_`¥ZVPM^TTV^SVS`W¥NWU[GNQ
@HWI-EAS443:3:58:645:48#0/1
CAGTGATAAAGAACAACATGATAAACAATGACCTTGGACC
+HWI-EAS443:3:58:645:48#0/1
aabaaaabaaa_`aba^aaaaaa_a`a``a``__`aa]`]

@HWI-EAS443:3:58:838:315#0/1
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+HWI-EAS443:3:58:838:315#0/1
a^`W`a`a`]YabaZ^¥^a]a`¥a_a_`¥a]J[U]_`__`
@HWI-EAS443:3:58:863:823#0/1
ATTTATATAGGACTTCTTTTTGCTCATGTTGATTCCCACT
+HWI-EAS443:3:58:863:823#0/1
aaaa`aaaaaaaaabaaaaaaaaaaaa`aaa``baaa`^aaaa
@HWI-EAS443:3:58:92:1764#0/1
ACGGCATCATATTCCATGCTTTTTGGCTGGACCATGGGCTG
+HWI-EAS443:3:58:92:1764#0/1
]YQV^_X]a`Z``[]^`Z^_]XTT^¥¥]BBBBBBBBBBB
@HWI-EAS443:3:59:1094:1507#0/1
CTTCAATGGTGGAACAGATCTTCATGATCTCAGAGAACTC
+HWI-EAS443:3:59:1094:1507#0/1
abbbbbbbbabbbbbbbbabbbbbbbbbb`aaaWW^aZ
@HWI-EAS443:3:59:1144:1214#0/1
AGCGCAAAATGCCATAAGCACCATTCCTTATACTGGA
+HWI-EAS443:3:59:1144:1214#0/1
ab^^Ya```bbbababab`]`aabaaaa^`aaW[`VW
@HWI-EAS443:3:59:1379:577#0/1
CAGCGCAAAATGCCATAAGCACCATTCCTTATACTGG
+HWI-EAS443:3:59:1379:577#0/1
abb^aabbbbbbbabbaa^`baabbbbbbaaababZHaaa
@HWI-EAS443:3:59:1465:1378#0/1
AAGCCAAAGGGGAATTCTTGAGGATGAACAGATGTACCAG
+HWI-EAS443:3:59:1465:1378#0/1
`_P¥_`aaa¥_baabbabbba^baabbbabb]aa_]TY]_
@HWI-EAS443:3:59:1653:1951#0/1
CACAAGCCAAAGGGGAATTCTTGAGGATGAACAGATGTAC
+HWI-EAS443:3:59:1653:1951#0/1
[^_Y_abb_X¥]RW_aZ¥W[¥_``bba``a`U]_WX^VTD
@HWI-EAS443:3:59:1703:407#0/1
GACAAAGGGATTGAGGGATTACAAAGTCTTCCCCGATAA
+HWI-EAS443:3:59:1703:407#0/1
`W_[_`__^Zaa_a^Z¥``[a`XZZ``XYX¥NVZZWTVXX
@HWI-EAS443:3:59:1721:1788#0/1
TAATCATCGCCAGGAACATTGAGGATTTTGATTTTCATT
+HWI-EAS443:3:59:1721:1788#0/1
^a`_T_a_aaaaZ`_]^`_¥Z_`^bbba_F]aaXO[X[
@HWI-EAS443:3:59:203:1009#0/1
AACTTTAGCTAGGAGCATTGCGAAAAGCTTGAACAGTCT
+HWI-EAS443:3:59:203:1009#0/1
_aaaaa^`aa`aaa^_a`aa_baa`[^a_a``_aW_URS
@HWI-EAS443:3:59:327:836#0/1
GGGAATTCTTGAGGATGAACAGATGTACCAGAAGTGCTGC
+HWI-EAS443:3:59:327:836#0/1
abbXabaaab^a`a`Zb`aa¥aaaaX`aaaa¥V^VXYaaW
@HWI-EAS443:3:59:571:950#0/1
CTCTGTGCTTGTGAATTAGTCATCATCTTTCTCACAACA

+HWI-EAS443:3:59:571:950#0/1
`babbababa`U^¥TZaa[a[_[a_a`aaaa^aYaU^]_a
@HWI-EAS443:3:5:1031:1624#0/1
GATAAACTAACTCAAGGTCGCCAGACTTATGATTGGACAT
+HWI-EAS443:3:5:1031:1624#0/1
ab`aabababXT`a`abZ]b`_aaa_baaaaaab`a¥aa
@HWI-EAS443:3:5:1072:153#0/1
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+HWI-EAS443:3:5:1072:153#0/1
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@HWI-EAS443:3:5:1110:955#0/1
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+HWI-EAS443:3:5:1110:955#0/1
aabaaa]b`¥a_aaa^_a`baba_a_a^a`baa_a_a_Za
@HWI-EAS443:3:5:131:836#0/1
AGGATTTTGATTTTCATTCCACTTAGTGTTGTCCCCAGTG
+HWI-EAS443:3:5:131:836#0/1
]ba¥`a``aabbba`b`a`a_aab^¥D[[aaaa][_ab^b
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AACGGCATCATATTCCATGCTTTTGGCTGGACCATGGGCT
+HWI-EAS443:3:5:1445:1779#0/1
a_b___aaSbbbabP[`aaab_____U`a¥^`Y¥_a^ZS]]
@HWI-EAS443:3:5:1472:977#0/1
AAATTGAGAAAATAAGGCCTCTTCTAATAGATGGCACAGC
+HWI-EAS443:3:5:1472:977#0/1
IPY]aaab^XP[``a`_[_X[VPVaa`P__^_]]SWZYB
@HWI-EAS443:3:5:155:747#0/1
ACAACACTAAGTGAATGAAAATCAAATCCTCGAATGTT
+HWI-EAS443:3:5:155:747#0/1
``aaa`aaaaa[aa`bb`aaaa_aa^aa[_a_a`aa_¥B
@HWI-EAS443:3:5:1588:993#0/1
GCAAAATGCCATAAGCACCACATTCCCTTATACTGGAGAT
+HWI-EAS443:3:5:1588:993#0/1
aaa`a`aa[Xa`_`_¥`^RZY^_`VYY_^^`X__]]_BB
@HWI-EAS443:3:5:1607:565#0/1
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+HWI-EAS443:3:5:1607:565#0/1
aS_ba_ZXU__FOYZ]__`_W__XYSGUTX]^[[¥_BBB
@HWI-EAS443:3:5:1637:742#0/1
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+HWI-EAS443:3:5:1637:742#0/1
]abb_b_aa¥abb_Tba0aa__aIaabababaaaaaab_a
@HWI-EAS443:3:5:1692:241#0/1
CAAAATGCCATAAGCACCACATTCCCTTATACTGGAGATC
+HWI-EAS443:3:5:1692:241#0/1
S[baZV_VY_a]ZZ^`b_bbb`¥[a¥bbaaa``ba[aa_B
@HWI-EAS443:3:5:1781:713#0/1
TTGGAGTAACAGTGATAAAGAACAACATGATAAACAATGA
+HWI-EAS443:3:5:1781:713#0/1
Y¥`WW_a_¥]b`[aYa^`_b_aUaW`a^^^a_a]]a_aba

@HWI-EAS443:3:5:313:691#0/1
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+HWI-EAS443:3:5:313:691#0/1
a]baa`b`a`ab`WaWabaa````a`_]_`aaa^[a]aXB
@HWI-EAS443:3:5:336:1106#0/1
ACGGCATCATATTCCATGCTTTTGGCTGGACCATGGGCTG
+HWI-EAS443:3:5:336:1106#0/1
aaXH]aa]a^¥`baXba^V[a¥`^R_]aaWPVMOXS`UBB
@HWI-EAS443:3:5:437:273#0/1
ACCGGTTGGAATTTCTAGCATGGTGGAGGCCATGGTGTCT
+HWI-EAS443:3:5:437:273#0/1
a`bbb^ab`aaa`a^`aYa`]aW_`¥_^SNS¥^_P_BBB
@HWI-EAS443:3:5:440:817#0/1
GCTGCCGGTTGATTTCTGTTTAATGTCCAATCATAAGTCT
+HWI-EAS443:3:5:440:817#0/1
aabaabbXa`Z`aaa_aU`a^`_^[_`_`¥a^aV_^^_
@HWI-EAS443:3:5:447:810#0/1
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+HWI-EAS443:3:5:447:810#0/1
`¥aa_X^M¥aaaTaOF]_`BBBBBBBBBBBBBBBBBBB
@HWI-EAS443:3:5:48:661#0/1
CAGACTTATGATTGGACATTAACAGAAATCAACCGGCAG
+HWI-EAS443:3:5:48:661#0/1
abbababbbbabbb_bbbbabababbbbbbbaabbab
@HWI-EAS443:3:5:530:1257#0/1
ATCGGGGAAGACTTTGTAATCCCCTGAATCCCCTTTGTCAG
+HWI-EAS443:3:5:530:1257#0/1
a^aaa`a`a`_aaa]`aaa__a_]_a``¥_]aS_aYLB
@HWI-EAS443:3:5:547:1567#0/1
TGAATTCACAAGCTTTTTTATCGCTATGGATTTGTGGCT
+HWI-EAS443:3:5:547:1567#0/1
ab`W[]`bab]WWaaaa_`ZZ^aZ¥_aab]Z`__SZ^^¥
@HWI-EAS443:3:5:615:964#0/1
GAGTTCTTCAATGGTGAACAGATCTTCATGATCTCAGAG
+HWI-EAS443:3:5:615:964#0/1
a_bY[^a_aaaaa^0a^[_`_a[^____`_`^`¥_¥_^^B
@HWI-EAS443:3:5:709:696#0/1
GTCCAGCCAAAAGCATGGAATATGATGCCGTTGCAACTAC
+HWI-EAS443:3:5:709:696#0/1
abbabbabbbbab`babbaabbababaa`aa_a]`a__aY
@HWI-EAS443:3:5:747:703#0/1
ATTTCTAGCATGGTGGAGGCCATGGTGTCTAGGGCCCGGA
+HWI-EAS443:3:5:747:703#0/1
`aaa`bbb^ababX^^a`T¥]`aUaYQaXUaY^^]_¥`aB
@HWI-EAS443:3:5:75:1029#0/1
TGCTCATGTTGATTCCCCTAACTTGCAGGTCCTGTAGAA
+HWI-EAS443:3:5:75:1029#0/1
abb`b`b_UOYMWa]`W^Z`_`_a[`Xa¥^W`S^a[_aBB
@HWI-EAS443:3:5:991:131#0/1
AACACTAAGTGAATGAAAATCAAATCCTCGAATGTTCC

+HWI-EAS443:3:5:991:131#0/1
aabaaa`aa`ab`aab¥aa`aW¥a_a`[_`¥VR_a^_^]
@HWI-EAS443:3:5:99:1563#0/1
CGAGGATTTTGATTTTCATTCCACTTAGTGTTGCCCCAG
+HWI-EAS443:3:5:99:1563#0/1
[aXVW_]`^aX`bb¥b`_`_`[a^^OY^Ta]baa[T^P`][`
@HWI-EAS443:3:60:1085:1242#0/1
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+HWI-EAS443:3:60:1085:1242#0/1
aa^aYa`a`aa`a_a[[aa`]^`^`_`_`_`_`¥ZZ_X]^[]
@HWI-EAS443:3:60:1108:550#0/1
AACGGCATCATATTCCATGCTTTTGGCTGGACCATGGGCT
+HWI-EAS443:3:60:1108:550#0/1
abaaaaaaaaabaaaaaaaa`aaaaa[_a``[ZYV_X]Z[[
@HWI-EAS443:3:60:1165:1589#0/1
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+HWI-EAS443:3:60:1165:1589#0/1
^`Z¥Zab`b¥X``bbb`babaabYbbbba¥a`a]a_a__^
@HWI-EAS443:3:60:1180:668#0/1
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+HWI-EAS443:3:60:1180:668#0/1
aabX[_ZX¥`]ZXYTU¥a`¥`[^a_^aY[¥`]]PW`^ON
@HWI-EAS443:3:60:1261:1131#0/1
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+HWI-EAS443:3:60:1261:1131#0/1
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@HWI-EAS443:3:60:1305:1223#0/1
GCTGCCGTTGATTTCTGTTTAAATGTCCAATCATAAGTCT
+HWI-EAS443:3:60:1305:1223#0/1
a`a`^ZY^[^a¥`_]RZ¥^]Z``_aWW¥W_____^_]XTVW
@HWI-EAS443:3:60:1370:1101#0/1
AACTAACTCAAGGTCGCCAGACTTATGATTGGACATTA
+HWI-EAS443:3:60:1370:1101#0/1
abX¥V`abb^b_aPa`aa]XW`aaaZ]][a`¥OLZaXS_a
@HWI-EAS443:3:60:147:1547#0/1
GCCAGCCCATGGTCCAGCCAAAAGCATGGAATATGATGCC
+HWI-EAS443:3:60:147:1547#0/1
abbb`bb]Wa^_]`_^`_baaab_a]aU`_aa_a_____Ya^
@HWI-EAS443:3:60:1497:1129#0/1
ACCGGTTGGAATTTCTAGCATGGTGGAGGCCATGGTGTCT
+HWI-EAS443:3:60:1497:1129#0/1
a`ab`_babaaaa`a`a^a`aaW`_¥`¥a¥]¥`_WSWUW
@HWI-EAS443:3:60:1519:1147#0/1
GAAAAAGGAGAGTAAGAGACAACATGACCAAGAAGATGGT
+HWI-EAS443:3:60:1519:1147#0/1
[QW[¥WZa^aX`S]_a]Y^¥Z^ZZVZ_NW^] []^¥YZUU
@HWI-EAS443:3:60:15:96#0/1
GAGTTCTTCAATGGTGAACAGATCTTCATGATCTCAGAG
+HWI-EAS443:3:60:15:96#0/1
aaaV`_aa```_`_`Wa[X_]`_U^]`_Z^]`^UUX¥XRYX]

@HWI-EAS443:3:60:1609:1617#0/1
GGACTTCTTTTTGCTCATGTTGATTCCCCTAACTTGCGAG
+HWI-EAS443:3:60:1609:1617#0/1
_WWa` `]a^ab`Y]` `¥ab`_Y` `XPXUV^W^]`_¥]^Y
@HWI-EAS443:3:60:1654:813#0/1
TGATTGGACATTAACAGAAATCAACCGGCAGCAACTGCA
+HWI-EAS443:3:60:1654:813#0/1
Za¥`bba^Zaa`_]`aaSaabbbb`ab` `ab[]¥QU]]¥
@HWI-EAS443:3:60:1667:1526#0/1
AGGATCTCCAGTATAAGGGAATGTGGTCTTATGGCATT
+HWI-EAS443:3:60:1667:1526#0/1
aU]aa]_RV]¥T]]`aa` `[_aa]a¥^^N__WYXXZa_X
@HWI-EAS443:3:60:1697:1322#0/1
GAAAATCAAAATCCTCGAATGTTCTGGCGATGATTACAT
+HWI-EAS443:3:60:1697:1322#0/1
aa`aa^aaaa`a` `aaa_aa_a^^`_X`^^_W^^TTZ^
@HWI-EAS443:3:60:438:1552#0/1
GCCGGTTGATTTCTGTTTAATGTCCAATCATAAGTCTGGC
+HWI-EAS443:3:60:438:1552#0/1
`aab^aaaaabaa`aaaaaa_aaaaa_a`aa_]`__X]
@HWI-EAS443:3:60:475:1391#0/1
TAAGCACCACATTCCTTATACTGGAGATCCTCCATACAG
+HWI-EAS443:3:60:475:1391#0/1
aaa` `baaaaaa__`a_a`a`^[^`_`^____]_`^` `R
@HWI-EAS443:3:60:524:479#0/1
GAGTCTTCAATGGTGAACAGATCTTCATGATCTCAGAG
+HWI-EAS443:3:60:524:479#0/1
a_b`abbaaaaa`Zaa]a` `a_aaaaaaa_^]a_` `^a
@HWI-EAS443:3:60:607:1101#0/1
GGTTGATTTCTGTTTAATGTCCAATCATAAGTCTGGCGAC
+HWI-EAS443:3:60:607:1101#0/1
XX[`baa^`abaWZ¥babb_aa`Yaa`a^aa]` ` `a_]a^
@HWI-EAS443:3:60:678:107#0/1
CCGTTGATTTCTGTTTAATGTCCAATCATAAGTCTGGCG
+HWI-EAS443:3:60:678:107#0/1
abbaabbabbaabb`bbabbbbaaaabaab_RYY]XaWOU
@HWI-EAS443:3:60:76:661#0/1
ATTTATATAGGACTTCTTTTTGCTCATGTTGATTCCCCT
+HWI-EAS443:3:60:76:661#0/1
ababaa` `Zaaa`aaaaaaaaaaaa_a]]` `^_[Z^_^_
@HWI-EAS443:3:60:823:231#0/1
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+HWI-EAS443:3:60:823:231#0/1
aaaaSbb_a`_` `a`a]Y`aaaa__a_^_aY[U^[_[]]
@HWI-EAS443:3:60:851:477#0/1
GGGAGTCTCGATACTGAATCTTGGACAAAAGAAATACACC
+HWI-EAS443:3:60:851:477#0/1
aTOHYJQ^[Z`VXRV`YWROPZXWTZ]ZYYZTTTTLPPXOO
@HWI-EAS443:3:60:888:1605#0/1
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+HWI-EAS443:3:60:888:1605#0/1
aaa`_YFY`a¥Y¥`a`aa`_[YU^Z^S[Y^^Y^Y^][SU
@HWI-EAS443:3:61:1126:218#0/1
ATATAGGACTTCTTTTTGCTCATGTTGATTCCCACTAACT
+HWI-EAS443:3:61:1126:218#0/1
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@HWI-EAS443:3:61:1143:155#0/1
CCCTGTCTTATTTATATAGGACTTCTTTTTGCTCATGTTG
+HWI-EAS443:3:61:1143:155#0/1
`^b_b`aabbbbabbbZbb^bbbbbbbaaa``b_`
@HWI-EAS443:3:61:1181:1323#0/1
CACATTCCCTTATACTGGAGATCCTCCATACAGCCATGGA
+HWI-EAS443:3:61:1181:1323#0/1
`¥b_baa_V_T_Yaba¥^_U[`bbaab_¥aT_SZ[_ZNF`
@HWI-EAS443:3:61:1301:1948#0/1
CGAGGATTTTGATTTTCATTCCACTTAGTGTTGCCCCAG
+HWI-EAS443:3:61:1301:1948#0/1
`bba]aabbabbbababb`^`a¥]babb`]`W]_`
@HWI-EAS443:3:61:1332:1394#0/1
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+HWI-EAS443:3:61:1332:1394#0/1
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+HWI-EAS443:3:61:1364:579#0/1
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+HWI-EAS443:3:61:1381:238#0/1
R`a¥[Y`¥Y¥_a`Z`b`^`^a]W__[_^SS^aa_YZ`IU
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@HWI-EAS443:3:61:1456:1358#0/1
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+HWI-EAS443:3:61:1456:1358#0/1
aaba`ab`abbaaabaaaa`aa`b_¥¥aaaa^a`XU____
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+HWI-EAS443:3:61:1493:516#0/1
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@HWI-EAS443:3:61:1511:1098#0/1
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@HWI-EAS443:3:61:1627:1253#0/1
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+HWI-EAS443:3:61:1627:1253#0/1
aab_b]]`a]aa_a_Z`^aabab`aaa^`aaZW]^_]_UY
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@HWI-EAS443:3:61:233:1495#0/1
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+HWI-EAS443:3:61:233:1495#0/1
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+HWI-EAS443:3:61:250:2010#0/1
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@HWI-EAS443:3:61:312:326#0/1
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+HWI-EAS443:3:61:312:326#0/1
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@HWI-EAS443:3:61:414:118#0/1
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a_aaaaaSaa_`^__a_YX__YY]Z_[^][YWY][^Z[[[
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@HWI-EAS443:3:61:445:1064#0/1
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+HWI-EAS443:3:61:445:1064#0/1
aaa¥^^_X¥^]`__^V_`a__¥[RR`[SV`ZX¥¥_]^^Z]
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`babbbb]b_`aaabaabba`L¥]a^baabaa`aa^____[
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+HWI-EAS443:3:61:612:319#0/1
_Z_X¥Y[a_¥`b¥R¥_]^[^XF]]^¥¥X¥ZRRZZXTW[
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+HWI-EAS443:3:61:721:432#0/1
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@HWI-EAS443:3:62:1027:171#0/1
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@HWI-EAS443:3:62:1072:229#0/1
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a¥¥¥abaa`b^baa`bbaaVaabaaaaaaaaaaaa`aaa__`
@HWI-EAS443:3:62:1392:806#0/1
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+HWI-EAS443:3:62:1392:806#0/1
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+HWI-EAS443:3:62:152:994#0/1
aaab`RH[]aaa[`V]aa^U]_P[`_^]Z^__ [U_TZ_] [R
@HWI-EAS443:3:62:257:99#0/1
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+HWI-EAS443:3:62:257:99#0/1
abaabbbbaabb`ababbaaaaaaaaa`aa`^]____ [V
@HWI-EAS443:3:62:43:281#0/1
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+HWI-EAS443:3:62:43:281#0/1
Xa` `babaX]`aa`P`aaaaa`a` ` ` [X[]_____ `^]
@HWI-EAS443:3:62:486:944#0/1
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+HWI-EAS443:3:62:486:944#0/1
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+HWI-EAS443:3:62:521:287#0/1
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@HWI-EAS443:3:62:539:1604#0/1
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+HWI-EAS443:3:62:539:1604#0/1
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+HWI-EAS443:3:62:616:383#0/1
TW_Ya__a¥`_ba__^__^abaa`^aa^aa^_TWYUZQ_¥
@HWI-EAS443:3:62:639:794#0/1
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+HWI-EAS443:3:62:639:794#0/1
_]_a`aaXYOU]`T]XV^P`a^]a^¥T]YYa`_`YVZ¥WY
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+HWI-EAS443:3:62:677:855#0/1
aaaa`¥^_]``_a¥YaaZ_aa_`^`_YQOVY[XTQYW[^Z
@HWI-EAS443:3:62:812:1467#0/1
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+HWI-EAS443:3:62:812:1467#0/1
aa_K_V^00a]Z]`^a__`_[]^`¥¥[`X`^`USPKURU
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+HWI-EAS443:3:63:1069:2020#0/1
¥````U`abbaX`^b^`bbbbQ0a[[a`_aaa`]YTO
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+HWI-EAS443:3:63:1088:1947#0/1
aa`[]aa]RaaW_L¥a`a`Wa`__^a`_]_W___]_]Z___
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+HWI-EAS443:3:63:1161:590#0/1
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+HWI-EAS443:3:63:1178:678#0/1
ab^[_XU_a_]Z^a[a^][aXa¥¥V¥PZaY^ZZ]^aR]
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+HWI-EAS443:3:63:1283:1001#0/1
aaaa`a`aa_aaaaabaaaa_aa`aba`a^aaa`_[a_^
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+HWI-EAS443:3:63:135:50#0/1
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+HWI-EAS443:3:63:1396:1253#0/1
aa``aaababbba`bbbbbaabaaba`^a_aaa_a_aa
@HWI-EAS443:3:63:1593:284#0/1
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+HWI-EAS443:3:63:1593:284#0/1
^aabbbbbbb`[aa_bb``baabbaaaa`a_a]a_aa^aa
@HWI-EAS443:3:63:1601:781#0/1
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+HWI-EAS443:3:63:1601:781#0/1
aabba`b_aYW`a_abaa_]`^¥H^ba`[]_¥a^^¥a`¥¥
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+HWI-EAS443:3:63:1659:369#0/1
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@HWI-EAS443:3:63:1676:168#0/1
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+HWI-EAS443:3:63:1676:168#0/1
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+HWI-EAS443:3:63:1714:1244#0/1
aa_Q_XRPP¥UXS_bXa`^aabba_``]NYU^XaU^^`b
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CAGTGATAAAGAACAACATGATAAACAATGACCTTGGACC
+HWI-EAS443:3:63:326:1079#0/1
aab`babbaaabaaaaaaa``_[^`a```a`_``a`
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+HWI-EAS443:3:63:358:1847#0/1
aa_aabaa_bba`aaa][JURGRSQWUGVW`BBBBBB
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+HWI-EAS443:3:63:49:863#0/1
aabaaa`aaa_^_aa```^`^a`ZMV][YRYXQSY¥¥BBB
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+HWI-EAS443:3:63:541:967#0/1
aa`a_baaaabb`^aaa_aaaa`abaaaaaaa^^`aa
@HWI-EAS443:3:63:58:277#0/1
GGGACAACACTAAGTGAATGAAAATCAAAATCCTCGAAT
+HWI-EAS443:3:63:58:277#0/1
abaaa^^a`aaa`a^ba[`aaa^V]``aa___]`^]_¥[Y
@HWI-EAS443:3:63:617:1335#0/1
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+HWI-EAS443:3:63:617:1335#0/1
^¥_¥S`_VZ^aa^RTZ_``a`aa^a_X`a[`aa_]U¥aba

@HWI-EAS443:3:63:672:329#0/1
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+HWI-EAS443:3:63:672:329#0/1
a`aaaYaa^^a`a``^¥Y^¥a¥`¥PY[[UY¥YPUU¥W
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TTTGAATTCACAAGCTTTTTTTATCGCTATGGATTTGTGG
+HWI-EAS443:3:63:683:474#0/1
``^bb`aabb`^^Zababaaab¥``^_]``¥V_`]PWa`
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+HWI-EAS443:3:63:798:890#0/1
aababb_ab``abbaaa`b_`_bbabb]aa``[``aa`ab
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GAAAATCAAAATCCTCGAATGTTCTGGCGATGATTACAT
+HWI-EAS443:3:63:814:507#0/1
aaaa`aaaabaaaa`aa[aaa_aa_aa`_b__a_``_X_]`
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+HWI-EAS443:3:63:873:591#0/1
aba`aXaXbaaa_`^]aaa^_`a]UT_^V__TY_`_^_W
@HWI-EAS443:3:63:895:462#0/1
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_ab^^bbababbbbbbbaaaaa_a`aaa^ab`aaa
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+HWI-EAS443:3:63:942:357#0/1
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@HWI-EAS443:3:63:95:1652#0/1
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+HWI-EAS443:3:63:95:1652#0/1
a_[_¥XXaba`^a`aaa]a`Y¥T^¥_`a_`[^_Ya]
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+HWI-EAS443:3:63:98:1358#0/1
aba^]b``UV¥``b`L]aaP^^aaS[_]_a_`____[W^]
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+HWI-EAS443:3:64:1054:1585#0/1
abbabbbabbbbaababbbbaababbbbabba`aabba
@HWI-EAS443:3:64:1146:682#0/1
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+HWI-EAS443:3:64:1146:682#0/1
aa_aa_aaaa`a[``_`aa]_Z``___`_``]^__WY_]`
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GTAACAGTGATAAAGAACAACATGATAAACAATGACCTTG
+HWI-EAS443:3:64:1155:30#0/1
a]¥_^`a_a_aaa_`]^`]]^_a]_^^_Z`Y_^]XW_]`
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+HWI-EAS443:3:64:1213:452#0/1
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+HWI-EAS443:3:64:1294:1634#0/1
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@HWI-EAS443:3:64:1460:237#0/1
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+HWI-EAS443:3:64:1460:237#0/1
a`baaaaabb`abaaaa`a_]^aaaaaba^`_a_a_]`
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+HWI-EAS443:3:64:1484:778#0/1
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@HWI-EAS443:3:64:1581:253#0/1
CGAGGATTTTGATTTTCATTCCACTTAGTGTTGCCCCAG
+HWI-EAS443:3:64:1581:253#0/1
aabbaaabbbbababbabaaa`babbab`ba`aaa[aaba
@HWI-EAS443:3:64:1693:933#0/1
TCTTTTTGCTCATGTTGATTCCCCTAACTTGCAGGCCT
+HWI-EAS443:3:64:1693:933#0/1
aabaaaabaaaaa^_a_``^`_`]^`__^_]¥^`_TTU]
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+HWI-EAS443:3:64:1789:111#0/1
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+HWI-EAS443:3:64:270:1184#0/1
a^¥a_SXN]aaa```aa]`ZV`^ZZ]YX]BBBBBBBBB
@HWI-EAS443:3:64:274:1067#0/1
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+HWI-EAS443:3:64:274:1067#0/1
a]aa^b`K`aaaaaW]]¥^]^`^^^]WZ¥^¥^UWW^¥¥U¥
@HWI-EAS443:3:64:367:564#0/1
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+HWI-EAS443:3:64:367:564#0/1
`bbb¥]b`Xabba]a]aaaaa`aaaaaaaaaaaa`aaa
@HWI-EAS443:3:64:37:983#0/1
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+HWI-EAS443:3:64:37:983#0/1
a`^a`a_]`^a_WZ`aa]¥[a^¥_]`_]ZRQU^]UV¥_Z
@HWI-EAS443:3:64:413:923#0/1
AATTCAAATGTCCCTGTCTTATTTATATAGGACTTCTTTT
+HWI-EAS443:3:64:413:923#0/1
aaaaba^Zba_aaaaa_aaa_aaa`aa```_`aa``a`a`
@HWI-EAS443:3:64:440:474#0/1
AGTTCTTCAATGGTGAACAGATCTTCATGATCTCAGAGA
+HWI-EAS443:3:64:440:474#0/1
ab_aaabaa_aaa]___a[`a```_a_`_`]^`¥_`X^^^`^`

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+HWI-EAS443:3:64:665:958#0/1
a`aaa`a_a]]`^Za^^¥Ua¥`^U[UQU_S]YW¥¥¥U^¥
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+HWI-EAS443:3:65:1035:2015#0/1
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@HWI-EAS443:3:65:1053:746#0/1
ACTTTAGCTAGGAGCATTTCGCGAAAAGCTTGAACAGTCTG
+HWI-EAS443:3:65:1053:746#0/1
aabb`aaaa¥aa`aaaaaaaZa`aaa`_a`a`_`a__`a`
@HWI-EAS443:3:65:110:279#0/1
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+HWI-EAS443:3:65:110:279#0/1
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@HWI-EAS443:3:65:127:299#0/1
CTCGATACTGAATCTTGGACAAAAGAAATACACCAAGACA
+HWI-EAS443:3:65:127:299#0/1
aabbaaZaaa^`a]aaaa`a]]aaaa^`_aaaa`_``__`
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+HWI-EAS443:3:65:1331:650#0/1
_[^UUHX]]]¥KTYZPVW^]W¥]WZ`U^^XXTSMRLYTTW
@HWI-EAS443:3:65:1340:1368#0/1
CATGGTCCAGCCAAAAGCATGGAATATGATGCCGTTGCAA
+HWI-EAS443:3:65:1340:1368#0/1
VS`a^`_`bbba_`^^`¥`baaba]babaabaaZZaa`_a`
@HWI-EAS443:3:65:1439:190#0/1
CTTTAGCTAGGAGCATTTCGCGAAAAGCTTGAACAGTCTGG
+HWI-EAS443:3:65:1439:190#0/1
abbaaabab[G_`bbbab`^]`^aabaaba]_a`__`_`_`
@HWI-EAS443:3:65:1463:82#0/1
GAGTCTTCAATGGTGGAAACAGATCTTCATGATCTCAGAG
+HWI-EAS443:3:65:1463:82#0/1
Z¥baaY_aV^`[ababaXZ[]][aTYabTY]b^aP_Z¥a`a`
@HWI-EAS443:3:65:1641:1135#0/1
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+HWI-EAS443:3:65:1641:1135#0/1
a^aa`aaa__]baUaa`_`]_UXS]WS¥US^¥¥UZU¥¥¥
@HWI-EAS443:3:65:1650:267#0/1
TTCAAATGTCCCTGTCTTATTTATATAGGACTTCTTTTTG
+HWI-EAS443:3:65:1650:267#0/1
ababababaa[^bb__bbabaaaaaaaaa`^aa_aaa`aa`
@HWI-EAS443:3:65:1706:1116#0/1
TTTCTAGCATGGTGGAGGCCATGGTGTCTAGGGCCCCGGAT
+HWI-EAS443:3:65:1706:1116#0/1
aaaabRZ`b`Xa`^`_¥][a]YTWVYY]SXTZYY_]X^
@HWI-EAS443:3:65:1755:1100#0/1
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+HWI-EAS443:3:65:1755:1100#0/1
aZ¥_ZZU¥¥^U`WWVS`][¥ZVYSTSKP¥VRBBBBBBBB
@HWI-EAS443:3:65:17:2039#0/1
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+HWI-EAS443:3:65:17:2039#0/1
aSaaaaaa¥Z_]U`]a_____^`a`[`[QY_^ZW¥_YQS
@HWI-EAS443:3:65:290:1812#0/1
AGCACTTCTGGTACATCTGTTCATCCTCAAGAATCCCCCT
+HWI-EAS443:3:65:290:1812#0/1
a^aa`_`a_^]b`a__][^]aa^`a)``_____^¥`]]]]
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+HWI-EAS443:3:65:388:1891#0/1
a]]OZ`_`a)`]][]aa^^`]^`^]_]_]_]S¥____¥Z` [
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GGTGTATCCTGTTCCCTGTTCCATGGCTGTATGGAGGATCT
+HWI-EAS443:3:65:434:401#0/1
abYa^`aaaa`__`_aa_`__`_[^`aQZZ¥¥MYTSPV
@HWI-EAS443:3:65:450:1555#0/1
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+HWI-EAS443:3:65:450:1555#0/1
aaaa`babZaaa^_T`]_¥]]]a_^]PVS^S¥¥WU`¥^Y
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GGGAGTCTCGATACTGAATCTTGGACAAAAGAAATACACC
+HWI-EAS443:3:65:456:366#0/1
aaa_a`aaaaa__aa_`^`_`aa__aa_^`__]_]_]_]Z
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CGGGCCCTAGACACCATGGCCTCCACCATGCTAGAAATTC
+HWI-EAS443:3:65:643:1510#0/1
aa]`b`a`_`aaaa`a`_`_aa_aa`a^a`_`¥a`T]a]¥¥
@HWI-EAS443:3:65:771:1432#0/1
AGGAGACCGTTGGAATTTCTAGCATGGTGGAGGCCATGG
+HWI-EAS443:3:65:771:1432#0/1
a`_a]`abbb^aaaa_`aaaaa]`aaa]^a`aa¥`^a^_]`
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GAAAAAGGAGAGTAAGAGACAACATGACCAAGAAGATGGT
+HWI-EAS443:3:65:778:608#0/1
aa¥`b`_`bab_a`aababbbbaa__aaabbaab`a`_`aY
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CAACGGCATCATATTCCATGCTTTTGGCTGGACCATGGGC
+HWI-EAS443:3:65:833:929#0/1
a^`a__aaabbaa`a`__`_]`____`a`_]_]¥¥^YZW
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+HWI-EAS443:3:65:900:1803#0/1
]`W`]b]]bb__Na¥_a`ab]bb_`b`]aaa`ba_Za_Y¥
@HWI-EAS443:3:65:926:302#0/1
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+HWI-EAS443:3:65:926:302#0/1
aa^]PI_`^Yaa[]_`R_Q]a[a`T`V`_a`aPOWS[Y¥]

@HWI-EAS443:3:65:958:509#0/1
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+HWI-EAS443:3:65:958:509#0/1
aaaaaaaa`bab`aaaaaaaa`aa``aaaa`_a_a``¥^_
@HWI-EAS443:3:66:1171:190#0/1
AGTGAATGAAAATCAAATCCTCGAATGTTCTGGCGAT
+HWI-EAS443:3:66:1171:190#0/1
`^Q`_S`XZU[`a^ZOT`]¥[^]_`a_a]]¥][[[U]^`^
@HWI-EAS443:3:66:1253:1236#0/1
AAAGGAGAGTAAGAGACAACATGACCAAGAAGATGGTCAC
+HWI-EAS443:3:66:1253:1236#0/1
_`a`b¥_Za_```bbbababaabaababbabba`ab¥aaa
@HWI-EAS443:3:66:1358:1087#0/1
CAACACTAAGTGAATGAAAATCAAATCCTCGAATGTTCT
+HWI-EAS443:3:66:1358:1087#0/1
aaaa[Ua^T^aaa^a`a¥Y_Z]_`][`Y[_a¥_Z][[^_
@HWI-EAS443:3:66:1446:246#0/1
CAGACTTATGATTGGACATTAACAGAAATCAACCGGCAG
+HWI-EAS443:3:66:1446:246#0/1
aabbabbbb`bab``_Tab_aa_baaa_a`ab``aa_aa
@HWI-EAS443:3:66:1604:1057#0/1
GCTCATGTTGATTCCCACTAACTTGCAGGTCCTGTAGAAT
+HWI-EAS443:3:66:1604:1057#0/1
aaa`aa¥^aa`aa[`^a`a``¥`¥`_`_]`^`^Y¥`_`Z[a
@HWI-EAS443:3:66:1662:928#0/1
TAGGACTTCTTTTTGCTCATGTTGATTCCCACTAACTTGC
+HWI-EAS443:3:66:1662:928#0/1
abb`aabbabbbbabaaabababaaabaaaaabaaa]a¥
@HWI-EAS443:3:66:1697:1742#0/1
GGACAACACTAAGTGAATGAAAATCAAATCCTCGAATG
+HWI-EAS443:3:66:1697:1742#0/1
]a__U^__aZW]_X¥V_ab]aa]a^`^`]^`_`a]U]W]]
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+HWI-EAS443:3:66:1733:1435#0/1
aa`Yaa`^^`X_Ya`aa`_`_`^^`__aZ`_`_]UTBBB
@HWI-EAS443:3:66:1777:427#0/1
CAGGTCAATGCTTGCTAGCATTCTGCTGGTATTTGTGTT
+HWI-EAS443:3:66:1777:427#0/1
aaaa`aaa`]```a_`aaa`a`a]aa`_aaZ`_`_`Ya^_
@HWI-EAS443:3:66:241:1550#0/1
TTCAAAGAAAAAGGAGAGTAAGAGACAACATGACCAAGAA
+HWI-EAS443:3:66:241:1550#0/1
aaaaa`aaa`_a``^a_aS`a`aaaaa_aZ_```^`^a_
@HWI-EAS443:3:66:266:1530#0/1
CACATTCCTGAAGTCTGCTTAAAATGGGAGCTAATGGATG
+HWI-EAS443:3:66:266:1530#0/1
[¥WYY]aaa`aYZUTVab^`S`a¥]_[_a`Y]YZU]Y^]]
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GTGGAATGAAAATCAAATCCTCGAATGTTCTGGCGATG

+HWI-EAS443:3:66:379:1405#0/1
a`aa`b`bbab`^`b_b`b``aaaa_^_RZ^]aY¥¥ZW_
@HWI-EAS443:3:66:380:233#0/1
GCACCACATTCCCTTATACTGGAGATCCTCCATACAGCCA
+HWI-EAS443:3:66:380:233#0/1
a` `` `^YLX^`_U_W]XR¥`a^NXSMYVRR¥¥[VLJRM
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GAAACTTTAGCTAGGAGCATTTCGCGAAAAGCTTGAACAGT
+HWI-EAS443:3:66:471:224#0/1
[VTX`]^^¥]^`^_^ZZ_U¥TYUY[PPUWSUWW[V
@HWI-EAS443:3:66:474:163#0/1
GCCGGTTGATTTCTGTTAATGTCCAATCATAAGTCTGGC
+HWI-EAS443:3:66:474:163#0/1
aaaa^H` `ZQa¥a[`V`a^`]RY]UYZ_____]ZTV]VZT
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+HWI-EAS443:3:66:511:276#0/1
abR`a]aaR_¥` `a^` `a`]W_^]Y)`_Sa[a^`a¥Y¥^
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TATTTATATAGGACTTCTTTTTGCTCATGTTGATTCCCAC
+HWI-EAS443:3:66:563:1310#0/1
_^`Y`b^Ua¥a^Zab`abaaaab`_aaaa_aaaa`aaaa`
@HWI-EAS443:3:66:604:1439#0/1
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+HWI-EAS443:3:66:604:1439#0/1
aaa`a_Raaa_aa`____[aa]_]_[_____^`¥`YUU^^
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+HWI-EAS443:3:66:668:315#0/1
`a` `aaa`bbbUbbbbbbbbbbabb`bbaab`baaaaaaaa
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TCAACACAAGCCAAAGGGAATTCTTGAGGATGAACAGAT
+HWI-EAS443:3:66:710:930#0/1
aa¥¥P_a_VZaa]ZY[_`¥^^¥^¥`][`ZY]_ZRW` `ZT
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+HWI-EAS443:3:66:742:1987#0/1
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+HWI-EAS443:3:66:744:1140#0/1
ab]bbb^baaba`aa`abaaaaaaa`a¥aa_a`^aaaaa_
@HWI-EAS443:3:66:904:1527#0/1
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+HWI-EAS443:3:66:904:1527#0/1
aaa_U]baaa`¥_aaa`_`aa[]_Ya`aa`_`_`_U`¥_W
@HWI-EAS443:3:66:975:634#0/1
GTGGAATGAAAATCAAAATCCTCGAATGTTCCCTGGCGATG
+HWI-EAS443:3:66:975:634#0/1
aWa` `a`^`a`^`_` `` `` `^_^]`^`_[]^^[^Y^_YZ^

@HWI-EAS443:3:68:1192:235#0/1
ATCAACATGAGCAAAAAGAAGTCCTATATAAATAAGACAG
+HWI-EAS443:3:68:1192:235#0/1
a`[baUabaa^`aaab`aaa_a_a`aaa`____a^^_a
@HWI-EAS443:3:68:1196:953#0/1
ATTTCTAGCATGGTGGAGGCCATGGTGTCTAGGGCCCGGA
+HWI-EAS443:3:68:1196:953#0/1
X[``_`^TWbb`XZU`aa]ONaZTRYEZJGSaaWR^^FP^B
@HWI-EAS443:3:68:1245:412#0/1
TCCTGTTCTGTTCCATGGCTGTATGGAGGATCTCCAGTA
+HWI-EAS443:3:68:1245:412#0/1
aaaabaaaaaaaa`a¥`aa¥a_UJY]`]]`Z]S¥[YVXLQ
@HWI-EAS443:3:68:1252:17#0/1
GAGTTCCTCAATGGTGAACAGATCTTCATGATCTCAGAG
+HWI-EAS443:3:68:1252:17#0/1
aaa`aab__[_`b]X`]^[Z¥a^_Yaa__`a^_]`]]_`^`
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+HWI-EAS443:3:68:1276:986#0/1
aaaaaa`_aaaaWaa_aa````aa`a`a`a^__^a`_`_Y
@HWI-EAS443:3:68:1540:887#0/1
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+HWI-EAS443:3:68:1540:887#0/1
aaaabZaaa_a_a`a`^^a`^aaaa`a_[[_`^^]`^^_W
@HWI-EAS443:3:68:1651:1083#0/1
GAGTTCCTCAATGGTGAACAGATCTTCATGATCTCAGAG
+HWI-EAS443:3:68:1651:1083#0/1
¥¥`IZ^bbb`b`abJ^`a_Pabb]^ababYba`aa__ba`
@HWI-EAS443:3:68:1751:1510#0/1
ACCGTTGGAATTTCTAGCATGGTGGAGGCCATGGTGTCT
+HWI-EAS443:3:68:1751:1510#0/1
]¥]Z][_`]W_a]VY]Y[U``UJW[_`^UQRNOYJVNXQ
@HWI-EAS443:3:68:218:151#0/1
TAGGACTTCTTTTTGCTCATGTTGATTCCTACTAATTGC
+HWI-EAS443:3:68:218:151#0/1
a[aaaaaaaaab_a¥aaa`aa```^^^a`_```_____
@HWI-EAS443:3:68:241:1750#0/1
CGGTTGATTTCTGTTAATGTCCAATCATAAGTCTGGCGA
+HWI-EAS443:3:68:241:1750#0/1
a__Sa`a`_a`¥[a`_`¥a`aa`_a_aa_Y__^[_`^[[
@HWI-EAS443:3:68:324:402#0/1
GTCTTATTTATATAGGACTTCTTTTTGCTCATGTTGATTC
+HWI-EAS443:3:68:324:402#0/1
a¥UQ¥OP^VRQORONPJPQTQQTZ^Z]UUQ¥YOOXWMXXM
@HWI-EAS443:3:68:42:1077#0/1
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+HWI-EAS443:3:68:42:1077#0/1
aa`a_]aaaa^`_a_a^X`]Z_^]Y_]^^^_a_]^^U
@HWI-EAS443:3:68:658:420#0/1
GGGGACAACACTAAGTGGAATGAAAATCAAATCCTCGAA

+HWI-EAS443:3:68:658:420#0/1
aa^X`a_]`aba¥aWb`_`_a_aaaaX^aaaa`_`a`
@HWI-EAS443:3:68:706:731#0/1
GAGTTCTTCAATGGTGAACAGATCTTCATGATCTCAGAG
+HWI-EAS443:3:68:706:731#0/1
a[``_`aaa^^^`X`Z¥Z[a__a`____a____]]^``_`
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CAGCACTTCTGGTACATCTGTTTCATCCTCAAGAATTCCCC
+HWI-EAS443:3:68:749:1309#0/1
ababbbaa_aa]Wba`aa`[]abbaab`aa^Y]a``_`a`
@HWI-EAS443:3:68:770:342#0/1
AGTTCTTCAATGGTGAACAGATCTTCATGATCTCAGAGA
+HWI-EAS443:3:68:770:342#0/1
aZYa[aSXNZ¥`_XVNPX¥Y_ZZ¥_]T^_]XQY_]^[)]Z
@HWI-EAS443:3:68:889:229#0/1
CAACGGCATCATATTCATGCTTTTTGGCTGGACCATGGGC
+HWI-EAS443:3:68:889:229#0/1
¥]`aaaaaa_Z_aaaaa`_`¥]ZX¥`_aXRL[YZ^YQ
@HWI-EAS443:3:68:996:1868#0/1
GGCATCATATTCATGCTTTTTGGCTGGACCATGGGCTGGC
+HWI-EAS443:3:68:996:1868#0/1
aa__¥ba[b]^^[`_Zaaa^Z]Q`a¥_¥_Z]XOZT[]`T]
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+HWI-EAS443:3:69:1002:1221#0/1
]bZbaba`]]aa]Jaa]aa_Ya[U[¥[[_^^PSY^QUXV
@HWI-EAS443:3:69:1309:778#0/1
ACTAAGTGAATGAAAATCAAATCCTCGAATGTTCTGG
+HWI-EAS443:3:69:1309:778#0/1
`abbaa[]OW¥]X_aba_0`b^baa_aa^^`^`^_ZZ¥]¥
@HWI-EAS443:3:69:1376:1558#0/1
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+HWI-EAS443:3:69:1376:1558#0/1
a`a`MaTRab^aKa_]_V^Ya[ab]]]_`¥`W_V[^]H_U
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+HWI-EAS443:3:69:1392:1195#0/1
¥]XZZb`Sab`bb`¥[YU`^]T``¥[a¥aa]_`a¥
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+HWI-EAS443:3:69:1407:1860#0/1
abaaaaaab`a_aaa]aaa_a`_ab^a^`^`^`a`_`a`_`
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GGTGTATCCTGTTCTGTTCCATGGCTGTATGGAGGATCT
+HWI-EAS443:3:69:1418:410#0/1
ab`babbb_bbabbbbaaa¥_baaaab¥[`[^P`_`S_V`
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CGCCAGACTTATGATTGGACATTAACAGAAATCAACCGG
+HWI-EAS443:3:69:1494:2030#0/1
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^Ta]]¥__a]^`¥L_]V]V[`XGVY]aa`____NVaW[K
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+HWI-EAS443:3:69:1602:449#0/1
`¥aW`a_UaUa_ZOW`aTW[`__Q_aVSM[aX[__^_`¥a
@HWI-EAS443:3:69:1700:1760#0/1
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+HWI-EAS443:3:69:1700:1760#0/1
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@HWI-EAS443:3:69:1778:1384#0/1
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+HWI-EAS443:3:69:1778:1384#0/1
a_aabb_ba_aaaabaaa`¥¥ab_`¥^[^`a`a`¥TW__W
@HWI-EAS443:3:69:197:977#0/1
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+HWI-EAS443:3:69:197:977#0/1
`bba^`bb`Saa`Z]^`_aaaa`a[]_aa`a```__Ya`
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AGAAAAAGGAGAGTAAGAGACAACATGACCAAGAAGATGG
+HWI-EAS443:3:69:28:1745#0/1
Xa]]YaYY]_YQ¥R[_`^`bababaW]Ya`¥^aa¥¥]]_]
@HWI-EAS443:3:69:389:739#0/1
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+HWI-EAS443:3:69:389:739#0/1
abaa_`abba_a`^aaaaaaaa`a`_`_`a_]`__ZP^_
@HWI-EAS443:3:69:420:1665#0/1
AGTTCTTCAATGGTGAACAGATCTTCATGATCTCAGAGA
+HWI-EAS443:3:69:420:1665#0/1
]SVY`^^a_S^_X]¥RYaa][_aaaab_¥ab[a``ZT`^`
@HWI-EAS443:3:69:442:20#0/1
ACTAAGTGGAATGAAAATCAAATCCTCGAATGTTCTGG
+HWI-EAS443:3:69:442:20#0/1
aaba]``ba`aaaaaaaa`a[aa``__a_`_`_]`_Y¥_]`
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GGGACAACACTAAGTGGAATGAAAATCAAATCCTCGAA
+HWI-EAS443:3:69:517:862#0/1
aabaaba]aaabb]b_ba`aa[`a_aa_a[N_aaa`a`]a
@HWI-EAS443:3:69:773:1478#0/1
CAAAATGCCATAAGCACCACATTCCTTATACTGGAGATC
+HWI-EAS443:3:69:773:1478#0/1
^PZY[Ua_¥TYZ_aa_`X`aa^_VORX[aab]aYH^aaX¥
@HWI-EAS443:3:69:915:603#0/1
CTGTTCACTCAAGAATTCCTTTGGCTTGTGTTGAGA
+HWI-EAS443:3:69:915:603#0/1
`a]^^`U_Z¥`aaa¥[_[_Z_aa_YY_]`^0^YZZTXL
@HWI-EAS443:3:69:961:993#0/1
TGTTCACTCAAGAATTCCTTTGGCTTGTGTTGAGAA

+HWI-EAS443:3:69:961:993#0/1
a`a`bbaaaaabaa_`ba^aa_aaaa_]aa_^^`Y]``_`
@HWI-EAS443:3:6:1014:505#0/1
CTCTGTGCTTGTAATTAGTCATCATCTTTCTCACAACA
+HWI-EAS443:3:6:1014:505#0/1
a`aa`U_`bbb`^`J]aba`UNZ_a`Z`b^G¥a]_`Q`
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AGCACTTCTGGTACATCTGTTTCATCCTCAAGAATCCCCT
+HWI-EAS443:3:6:1127:1696#0/1
a_`aaa`ZaaX]baaa_[_`_a`aa][_`^`_`X¥Ya^S^RT`
@HWI-EAS443:3:6:1184:365#0/1
ACTGGGACAACACTAAGTGGAATGAAAATCAAAATCCTC
+HWI-EAS443:3:6:1184:365#0/1
aS_bba]``_a`_]`_]_^Q`a`__a`_a`_]```__^X_¥
@HWI-EAS443:3:6:1193:1127#0/1
TGGGACAACACTAAGTGGAATGAAAATCAAAATCCTCGA
+HWI-EAS443:3:6:1193:1127#0/1
abaabbaY^[T^a]L__b^¥¥aaa_^^a_a^^]¥]V^a_`
@HWI-EAS443:3:6:1246:572#0/1
GCCGGTTGATTTCTGTTAATGTCCAATCATAAGTCTGGC
+HWI-EAS443:3:6:1246:572#0/1
a]Z` `[a[DT^[[aa[[_U]¥aTSY]WWWZM`^_PS`BB
@HWI-EAS443:3:6:1264:870#0/1
CACATTCCCTTATACTGGAGATCCTCCATACAGCCATGGA
+HWI-EAS443:3:6:1264:870#0/1
a[U_ab]_a`_Yabaaa]S_a_SVZ^[`aaaa`U¥aa[_
@HWI-EAS443:3:6:127:77#0/1
GGTGAACAGATCTTCATGATCTCAGAGAACTCTTCTTTC
+HWI-EAS443:3:6:127:77#0/1
ab¥bb`a^`_Ya_a``aaa_a_a_^__a__]a^`a^a__U
@HWI-EAS443:3:6:1648:1227#0/1
GGGAGTCTCGATACTGAATCTTGACAAAAGAAATACACC
+HWI-EAS443:3:6:1648:1227#0/1
aaa```_a`aaaa_aa]_a]`aaa_]__`_a^`^__]_VX
@HWI-EAS443:3:6:1666:733#0/1
GGTTGATTTCTGTTAATGTCCAATCATAAGTCTGGCGAC
+HWI-EAS443:3:6:1666:733#0/1
aa`bb`aaa_abaaaa`ab`Y__a`Zaaa^¥¥R`_^]a_V
@HWI-EAS443:3:6:219:813#0/1
CAAGCTTTTCGCAAATGCTCCTAGCTAAAGTTTCAACAAA
+HWI-EAS443:3:6:219:813#0/1
Y`aa^aaaa_```abbXb_abb^a`_]`a[aaaa]aab`
@HWI-EAS443:3:6:242:174#0/1
ATTCAAATGTCCCTGTCTTATTTATATAGGACTTCTTTTT
+HWI-EAS443:3:6:242:174#0/1
abbaababb_`a`bbaa`bababaWaaa[a`_`_^aaaa_
@HWI-EAS443:3:6:437:853#0/1
CATTCGAGGATTTTGATTTTCATTCCACTTAGTGTGTCC
+HWI-EAS443:3:6:437:853#0/1
aY]^a^Z[]^a_]baa`_X]`a]]¥0__aaRZY[]LW_

@HWI-EAS443:3:6:531:1982#0/1
CAAATGCCATAAGCACCACATTCCTTATACTGGAGATC
+HWI-EAS443:3:6:531:1982#0/1
VVba¥[¥`bbbbbbbaabbbaaa_bYaaaabaaa^aab`
@HWI-EAS443:3:6:555:1546#0/1
CTGCCGGTTGATTTCTGTTTAATGTCCAATCATAAGTCTG
+HWI-EAS443:3:6:555:1546#0/1
aaU]^`___a`baba_]Vaaaa¥Y^U]`b`N¥abY[FX`a
@HWI-EAS443:3:6:570:907#0/1
CTTGGTGTATTTCTTTTGTCCAAGATTCAGTATCGAGACT
+HWI-EAS443:3:6:570:907#0/1
abbaaaaaabbabbbbbbabbbbbbbaabbaa`a
@HWI-EAS443:3:6:618:1182#0/1
CTTTGTTGAAACTTTAGCTAGGAGCATTTGCGAAAAGCTT
+HWI-EAS443:3:6:618:1182#0/1
abbbbbbbbbbbbbbb`bbabababb`bb_baaaa`_aa
@HWI-EAS443:3:6:815:1078#0/1
AATTTCTAGCATGGTGGAGCCATGGTGTCTAGGGCCCGG
+HWI-EAS443:3:6:815:1078#0/1
_QT`_WW_R]ZW]Z_¥`^ZX]a_PPYOVSRHQWS[B
@HWI-EAS443:3:6:82:1453#0/1
GTATCCTGTTCCCTGTTCCATGGCTGTATGGAGGATCTCCA
+HWI-EAS443:3:6:82:1453#0/1
aUaa`X`a^`_aaZ`aRVX_¥][UBBBBBBBBBBBBBB
@HWI-EAS443:3:6:871:278#0/1
GGTCCAGCCAAAAGCATGGAATATGATGCCGTTGCAACTA
+HWI-EAS443:3:6:871:278#0/1
aa]a_`Y`]Za_Y[_]`_a^`^`_WUQY^]V^XVXB
@HWI-EAS443:3:6:910:766#0/1
CAAATGCCATAAGCACCACATTCCTTATACTGGAGATC
+HWI-EAS443:3:6:910:766#0/1
abb_bbbb`babaa`bb_babbb``_abbaba`bbaaa`]
@HWI-EAS443:3:6:982:1985#0/1
CGGTTGATTTCTGTTTAATGTCCAATCATAAGTCTGGCGA
+HWI-EAS443:3:6:982:1985#0/1
aba¥a`0bbbbbb`bbabab`¥bbabTb`ba`¥aaaZPba
@HWI-EAS443:3:70:1066:849#0/1
GAGTTCTTCAATGGTGAACAGATCTTCATGATCTCAGAG
+HWI-EAS443:3:70:1066:849#0/1
¥J¥¥aaa`abaaaaWa`_a_aaaa`___a]a__^a`_^a
@HWI-EAS443:3:70:115:455#0/1
GGACAACACTAAGTGAATGAAAATCAAAATCCTCGAATG
+HWI-EAS443:3:70:115:455#0/1
a[Y_^]aaa`abaXa^`aaaa``aa_aa_P_b`aaa`aa_
@HWI-EAS443:3:70:1366:978#0/1
CAGGGACATTTGAATTCACAAGCTTTTTTTATCGCTATGG
+HWI-EAS443:3:70:1366:978#0/1
`bbabbbbbbb`bbabbbbababbabbaaa^``aaa
@HWI-EAS443:3:70:1497:466#0/1
ATCAAAATCCTCGAATGTTCTGGCGATGATTACATATAT

+HWI-EAS443:3:70:1497:466#0/1
¥abab¥V`_a_ba^^baY^aX]```baab^Z`YST_aaa_
@HWI-EAS443:3:70:1578:1088#0/1
ATTCGAGGATTTTGATTTTCATTCCACTTAGTGTTGTCCC
+HWI-EAS443:3:70:1578:1088#0/1
abbab_bbabbbabababbaabaa_a_aaaa_a_a`a__`
@HWI-EAS443:3:70:170:1811#0/1
CAAATGTCCCTGTCTTATTTATATAGGACTTCTTTTTGCT
+HWI-EAS443:3:70:170:1811#0/1
aba¥aa^baa]a[aa`_`__`_¥^`_]__^^__^]^^]]
@HWI-EAS443:3:70:266:401#0/1
GTCCATGGTGTATCCTGTTCCCTGTTCCATGGCTGTATGGA
+HWI-EAS443:3:70:266:401#0/1
a^b`^^aa[a^aabaaa`^aa`^Xaaa`aa_a^]RNVUXI
@HWI-EAS443:3:70:311:1941#0/1
CGCCAGACTTATGATTGGACATTAACAGAAATCAACCGG
+HWI-EAS443:3:70:311:1941#0/1
WQa`[a¥¥a^aaa^T`a_abU`]a[W`b`]SZ^aba^^V^
@HWI-EAS443:3:70:348:631#0/1
CTAGCATGGTGGAGGCCATGGTGTCTAGGGCCCGGATTGA
+HWI-EAS443:3:70:348:631#0/1
`[[a¥[XaZF_R]YL¥]WVPTP^UXSVR^[XX`X]ZVQFX
@HWI-EAS443:3:70:37:815#0/1
CATACAGCCATGGAACAGGAACAGGATACACCATGGACAC
+HWI-EAS443:3:70:37:815#0/1
abba`^abaZ_] [aaa^^aa]b`a__aa]R]a__`]]U_]
@HWI-EAS443:3:70:432:506#0/1
CGCAAAATGCCATAAGCACCACATTCCTTATACTGGAGA
+HWI-EAS443:3:70:432:506#0/1
abbb`bbabb`b`^_aabbbaaaaaa_aaababa¥]```aa
@HWI-EAS443:3:70:545:346#0/1
CAAAGAAAAAGGAGAGTAAGAGACAACATGACCAAGAAGA
+HWI-EAS443:3:70:545:346#0/1
a]MS_W^WNXYVY^^_G^U¥^TX¥][X`ZaaX][X¥XY`X
@HWI-EAS443:3:70:547:676#0/1
CGAGGATTTTGATTTTCATTCCACTTAGTGTTGTCCCCAG
+HWI-EAS443:3:70:547:676#0/1
ab¥a^Z^_a_a]a`^aaa^a`aa]a`_a]`]__^`_`_ [W¥
@HWI-EAS443:3:70:565:552#0/1
GGTGAACAGATCTTCATGATCTCAGAGAACTCTTCTTTC
+HWI-EAS443:3:70:565:552#0/1
aa0[¥PST^YT_Y[¥a`_`___U`_Z`_XHR```ZT[___N
@HWI-EAS443:3:70:668:1502#0/1
TCTTCACATTCCTGAAGTCTGCTTAAAATGGGAGCTAATG
+HWI-EAS443:3:70:668:1502#0/1
]aa[baaaYXYb_`^Q]Ia][aZ]YJX`aIU¥GNWI`````]
@HWI-EAS443:3:70:742:411#0/1
CAACACTAAGTGAATGAAAATCAAAATCCTCGAATGTTC
+HWI-EAS443:3:70:742:411#0/1
aaaaaaaa_¥a_baaaaaaaa`^aaaaaaaa`__a__`a[^_`

@HWI-EAS443:3:70:930:899#0/1
CAATGGTGAACAGATCTTCATGATCTCAGAGAACTCTTC
+HWI-EAS443:3:70:930:899#0/1
`YUb_b`abbabbW[ba`T`]Y`_baabba`aaWbbaa`U
@HWI-EAS443:3:71:1042:1771#0/1
AGCGATAAAAAAGCTTGTGAATTCAAATGTCCCTGTCTT
+HWI-EAS443:3:71:1042:1771#0/1
a_baa`aa^a__[¥a`Sa`_]KPZ`^^_S_^`]TNK_^
@HWI-EAS443:3:71:1072:571#0/1
GCCGGTTGATTTCTGTTAATGTCCAATCATAAGTCTGGC
+HWI-EAS443:3:71:1072:571#0/1
a_abbZaaYaaaa_a^aa_a`a__`a^^a_aV`X¥]_¥X
@HWI-EAS443:3:71:1083:270#0/1
CTGGGGACAACACTAAGTGAATGAAAATCAAAATCCTCG
+HWI-EAS443:3:71:1083:270#0/1
ab``]R]bb]][`ab]aZb_a¥^`a^a_aa`aa_aY^]_`
@HWI-EAS443:3:71:1101:1317#0/1
GGAACATTCGAGGATTTTGATTTTCATTCCACTTAGTGTT
+HWI-EAS443:3:71:1101:1317#0/1
P]O]_Y_Y_ab^NTZ_Y[PU¥_U`_U^¥¥Z[¥][_R^VWF
@HWI-EAS443:3:71:1279:1050#0/1
ACGGCATCATATCCATGCTTTTGGCTGGACCATGGGCTG
+HWI-EAS443:3:71:1279:1050#0/1
`ab`aa``aaa_`¥`aaa^_baa`__a_SZZ_¥_XZ[NY`
@HWI-EAS443:3:71:1300:1025#0/1
GTTCTGTTCCATGGCTGTATGGAGGATCTCCAGTATAAG
+HWI-EAS443:3:71:1300:1025#0/1
[`Y^abaaabZ__ab_^aH]X[`^_]¥¥`]Y_N¥XY[G[_
@HWI-EAS443:3:71:1352:700#0/1
GAGTTCTTCAATGGTGAACAGATCTTCATGATCTCAGAG
+HWI-EAS443:3:71:1352:700#0/1
a_b`aaa_aababb_a^baaaba_abaab`aaaa`^b`aa
@HWI-EAS443:3:71:1706:1625#0/1
TTTGAATTCACAAGCTTTTTTATCGCTATGGATTTGTGG
+HWI-EAS443:3:71:1706:1625#0/1
aaaa``aaa^[a`_Z``_`^a`^^Y_[^^]^^Z_^_Y[WZ
@HWI-EAS443:3:71:19:440#0/1
CATTGAGGATTTTGATTTTCATTCCACTTAGTGTTGTCC
+HWI-EAS443:3:71:19:440#0/1
aabbbaababaaaaabaaaaabaaaaa¥^aaaa]a_a``a^
@HWI-EAS443:3:71:240:451#0/1
CGCCAGACTTATGATTGGACATTAACAGAAATCAACCGG
+HWI-EAS443:3:71:240:451#0/1
``a_Q`X`a]THG¥_aU¥¥NXY_¥J¥_^Z^VX_``[]Y]
@HWI-EAS443:3:71:279:292#0/1
AATTTCTAGCATGGTGGAGCCATGGTGTCTAGGGCCCGG
+HWI-EAS443:3:71:279:292#0/1
^]`^aa^aa¥Xa]`¥F¥]^VU`^VPUYU[S[UVOPYPYUUU
@HWI-EAS443:3:71:327:1381#0/1
GTTGATTTCTGTTAATGTCCAATCATAAGTCTGGCGACC

+HWI-EAS443:3:71:327:1381#0/1
a_a^^_aaa`a_`^_P_`V`a`a_`^`X`^T`_`^^`_`[^Y
@HWI-EAS443:3:71:348:1749#0/1
CTGGAGATCCTCCATACAGCCATGGAACAGGAACAGGATA
+HWI-EAS443:3:71:348:1749#0/1
a`_`^`[Zaaa`aaaaab```a_[Z_a`a_]`_a_`¥]¥¥
@HWI-EAS443:3:71:39:768#0/1
GATTTTCATTCCACTTAGTGTTGTCCCCAGTGATTGTGAA
+HWI-EAS443:3:71:39:768#0/1
]L_a`bb¥bbaaaaa]`Ya`aa`aabaa_`UVa_Ha^a
@HWI-EAS443:3:71:48:899#0/1
TGCCGGTTGATTTCTGTTTAATGTCCAATCATAAGTCTGG
+HWI-EAS443:3:71:48:899#0/1
abbbbb`b`a`aabababa__bb`bb`aaaaabaa]a`Z_
@HWI-EAS443:3:71:548:813#0/1
CAAAGAAAAAGGAGAGTAAGAGACAACATGACCAAGAAGA
+HWI-EAS443:3:71:548:813#0/1
abbabaZZ¥aab_aaaX[aaaab`abba^aaa^a[^`Z_a`
@HWI-EAS443:3:71:593:259#0/1
TGAATTCACAAGCTTTTTTTATCGCTATGGATTTGTGGCT
+HWI-EAS443:3:71:593:259#0/1
ababbaa]aaa```aaaaaaa_aaa_aa]X``a`]^`_^¥
@HWI-EAS443:3:71:640:1640#0/1
AAAATGCCATAAGCACCATTCCTTATACTGGAGATCC
+HWI-EAS443:3:71:640:1640#0/1
aZ]¥a]ababa]a_]`[Y^a]Zaa[__baaXYT[]][RP^_
@HWI-EAS443:3:72:1066:426#0/1
AACACTAAGTGAATGAAAATCAAAATCCTCGAATGTTCC
+HWI-EAS443:3:72:1066:426#0/1
aaaa^baK_Jbaaba^aa`bab`b`adWa`aa^aa`__]
@HWI-EAS443:3:72:1105:634#0/1
CGGTTGATTTCTGTTTAATGTCCAATCATAAGTCTGGCGA
+HWI-EAS443:3:72:1105:634#0/1
abb`b`]^`bbaababbbbaa`aaaa`aaaa`]aaa^^_
@HWI-EAS443:3:72:1119:515#0/1
ATTTCTAGCATGGTGGAGGCCATGGTGTCTAGGGCCCGGA
+HWI-EAS443:3:72:1119:515#0/1
aabb`aab¥aab`F`aaa__`a`^W`^¥^_^]_¥_V]_]_
@HWI-EAS443:3:72:1225:356#0/1
GGGGACAACACTAAGTGAATGAAAATCAAAATCCTCGAA
+HWI-EAS443:3:72:1225:356#0/1
aa^aW`]H_a]`NRa_aaY__a[Z¥`_`T_a^WHPa¥^YM
@HWI-EAS443:3:72:1244:13#0/1
ATTTCTAGCATGGTGGAGGCCATGGTGTCTAGGGCCCGGA
+HWI-EAS443:3:72:1244:13#0/1
abba`aZ_Z_aba[``^`__NU_TU^P`YQESZYQMPPYXQ
@HWI-EAS443:3:72:1260:1125#0/1
GTTCTTCAATGGTGAACAGATCTTCATGATCTCAGAGAA
+HWI-EAS443:3:72:1260:1125#0/1
a]abaa_a_ba^[a^`a``a^a^^`_a`_a`_a]^Za`]

@HWI-EAS443:3:72:153:1349#0/1
CTGCCGGTTGATTTCTGTTTAATGTCCAATCATAAGTCTG
+HWI-EAS443:3:72:153:1349#0/1
a_Q_aa¥^]`Z[aa___HVZZ`_YX`a]Z]][[[]TR^YS
@HWI-EAS443:3:72:1605:1530#0/1
GGACTTCTTTTTGCTCATGTTGATTCCCCTAACTTGCGAG
+HWI-EAS443:3:72:1605:1530#0/1
[^`ab`)]`_aaa[aa`_NX`WW]XZPPW¥^aaa^Z]W_V^
@HWI-EAS443:3:72:1607:1511#0/1
CAAGCTTTTCGCAAATGCTCCTAGCTAAAGTTTCAACAAA
+HWI-EAS443:3:72:1607:1511#0/1
abbb]^`aa]a^abaUT]b_a_aa¥^_]^^X)`S`]W``a
@HWI-EAS443:3:72:1616:838#0/1
ACTAAGTGAATGAAAATCAAATCCTCGAATGTTCTGG
+HWI-EAS443:3:72:1616:838#0/1
aabaab`baabbbbaaab_aaaaa_a`aaaa_a__`aa
@HWI-EAS443:3:72:1649:1540#0/1
ACTAAGTGAATGAAAATCAAATCCTCGAATGTTCTGG
+HWI-EAS443:3:72:1649:1540#0/1
aaa`_¥[baabbaa``ab_aaaaa^^`¥^`aa]aUV__¥
@HWI-EAS443:3:72:1698:1882#0/1
GAGTCTTCAATGGTGAACAGATCTTCATGATCTCAGAG
+HWI-EAS443:3:72:1698:1882#0/1
aa__Z[b[0_RW^aI]¥aa`]V_YP`¥Q_^_]^Z`Ua`aY
@HWI-EAS443:3:72:241:255#0/1
GAGTCTTCAATGGTGAACAGATCTTCATGATCTCAGAG
+HWI-EAS443:3:72:241:255#0/1
`a`^a_aaaaaa`Waaa^^aa[Zaa`___aa^Y^]^Z`_
@HWI-EAS443:3:72:428:905#0/1
ATCAAATCCTCGAATGTTCTGGCGATGATTACATATAT
+HWI-EAS443:3:72:428:905#0/1
YaaS]XIPZ¥Z¥¥YU`b_a`]XZ]¥VYWSHZXQZ¥]W]W[
@HWI-EAS443:3:72:464:459#0/1
GTCCAGCCAAAAGCATGGAATATGATGCCGTTGCAACTAC
+HWI-EAS443:3:72:464:459#0/1
`ababa`aa]a_¥aa^_a^aa`aa``a]_aY]_____X^`_
@HWI-EAS443:3:72:465:28#0/1
GTTCTTCAATGGTGAACAGATCTTCATGATCTCAGAGAA
+HWI-EAS443:3:72:465:28#0/1
a_````¥`_`a`¥a`YT[^_YS¥[^¥YY_Y^[¥]]Z¥^U¥
@HWI-EAS443:3:72:522:1352#0/1
ACTTTGTTGAACTTTAGCTAGGAGCATTTGCGAAAAGCT
+HWI-EAS443:3:72:522:1352#0/1
]]baaba[]`^Ua][a^bZ[___YY^)``[]HZa`aV^_
@HWI-EAS443:3:72:562:1246#0/1
ATTTATATAGGACTTCTTTTTGCTCATGTTGATTCCCCT
+HWI-EAS443:3:72:562:1246#0/1
¥a_[]`a¥^¥Yabbaa^^_aYaa`^`aT[_^_a_aa`aa
@HWI-EAS443:3:72:606:73#0/1
GCTCATGTTGATTCCCCTAACTTGCGAGTCTGTAGAAT

+HWI-EAS443:3:72:606:73#0/1
aaa^[a^ab[`a][`_a^a[^YP^`_[^U_`YV]Z[[
@HWI-EAS443:3:72:711:1717#0/1
TTCAAATGTCCCTGTCTTATTTATATAGGACTTCTTTTTG
+HWI-EAS443:3:72:711:1717#0/1
abbabaaa_aaaa`_aaa`aaaaa`a_¥^`aaa`a__`
@HWI-EAS443:3:72:770:1097#0/1
CGAGGATTTTGATTTTCATTCCACTTAGTGTTGCCCCAG
+HWI-EAS443:3:72:770:1097#0/1
_] [YT[aaaaaXaaa_aa`aa__aa___Sa^`_^`_a` [
@HWI-EAS443:3:72:818:1318#0/1
ATTTCTAGCATGGTGGAGGCCATGGTGTCTAGGGCCCGGA
+HWI-EAS443:3:72:818:1318#0/1
_¥^`_baab`__aaV]]`¥^`_aZWY][^Y`_Z]a^ZY
@HWI-EAS443:3:72:853:834#0/1
CCAGCGCAAAATGCCATAAGCACCACATTCCTTATACTG
+HWI-EAS443:3:72:853:834#0/1
aZ[`[¥^aa¥[_`aYa_U_a_Q[U]Y¥^TRQ¥`_]__]
@HWI-EAS443:3:72:906:1677#0/1
GAGTCTTCAATGGTGGAACAGATCTTCATGATCTCAGAG
+HWI-EAS443:3:72:906:1677#0/1
`a^`aYa`ba]^VHLa^^a`a_¥S_^_U¥RLK_SXWa^
@HWI-EAS443:3:72:944:775#0/1
GTCTCGATACTGAATCTTGGACAAAAGAAATACACCAAGA
+HWI-EAS443:3:72:944:775#0/1
aaaa`a`aa_aaaaa_aaa`_a_a_a__a`a`_`_`
@HWI-EAS443:3:73:1007:1929#0/1
GTTGATTTCTGTTAATGTCCAATCATAAGTCTGGCGACC
+HWI-EAS443:3:73:1007:1929#0/1
a``]¥aaa`^aWaaaaaTH_Yaa`]]`aaaZU^_W[^_^]
@HWI-EAS443:3:73:1127:337#0/1
CATCAATCCGGGCCCTAGACACCATGGCCTCCACCATGCT
+HWI-EAS443:3:73:1127:337#0/1
ab`aaaababaa_X^ab__Saaa`_]a]¥¥aI[___W]
@HWI-EAS443:3:73:117:705#0/1
GTTGGAATTTCTAGCATGGTGGAGGCCATGGTGTCTAGGG
+HWI-EAS443:3:73:117:705#0/1
aWaabaaaaa`^`_a_aZSa]^^^`_U[XSRU[NQZ^W
@HWI-EAS443:3:73:1200:1583#0/1
CGAGGATTTTGATTTTCATTCCACTTAGTGTTGCCCCAG
+HWI-EAS443:3:73:1200:1583#0/1
`a¥aa_aaaaa¥a^aaba`aaaaa`aaX`[a`_a`][a`
@HWI-EAS443:3:73:127:971#0/1
CAGTGATAAAGAACAACATGATAAACAATGACCTTGGACC
+HWI-EAS443:3:73:127:971#0/1
W] [R[]^W¥Z¥^¥IZ`_a^^^b`^^`Waa``]XZ`aa
@HWI-EAS443:3:73:1660:875#0/1
TTGAATTCACAAGCTTTTTTATCGCTATGGATTTGTGGC
+HWI-EAS443:3:73:1660:875#0/1
JRa^K`[¥Yaab`_`_a_]]^V]¥`bYXMPP`W``YVVI

@HWI-EAS443:3:73:1696:1218#0/1
ACCGGTTGGAATTTCTAGCATGGTGGAGGCCATGGTGTCT
+HWI-EAS443:3:73:1696:1218#0/1
`]abbab`[`aaaa`aabY`ab^_a^`]_]_TaXaTMZ[Y
@HWI-EAS443:3:73:1699:849#0/1
CTATATAAATAAGACAGGGACATTTGAATTCACAAGCTTT
+HWI-EAS443:3:73:1699:849#0/1
abbbbbbbbbbaabbbbaabbbbbbbbbbaabba_abb
@HWI-EAS443:3:73:174:1503#0/1
GTGGGAATCAACATGAGCAAAAAGAAGTCCTATATAAATA
+HWI-EAS443:3:73:174:1503#0/1
]bab¥S[ab_babbaabaa^baaaVa`babbaba`baaa
@HWI-EAS443:3:73:1754:110#0/1
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+HWI-EAS443:3:73:1754:110#0/1
abaR`^`a^¥]a_^XV]a^^NRT[a]U[BBBBBBBBBBB
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+HWI-EAS443:3:73:230:2031#0/1
`]a]_ba_^`_aa^aUaa_]V^__[Y[a]_XX][[]][^
@HWI-EAS443:3:73:40:211#0/1
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+HWI-EAS443:3:73:40:211#0/1
aa`_^]_LZbaaa`bS]`Z¥Z¥Y0^¥ST[]UZX____]____
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TGCCGGTTGATTTCTGTTAATGTCCAATCATAAGTCTGG
+HWI-EAS443:3:73:428:1957#0/1
[^`_W]a_RYb_bbXP[aababa_bb__ab`a¥`_H]aaV
@HWI-EAS443:3:73:663:1679#0/1
GGAATTTCTAGCATGGTGGAGGCCATGGTGTCTAGGGCCC
+HWI-EAS443:3:73:663:1679#0/1
a`V]_`aaabaaaZa`Ma^aWX^aa¥Y¥UG[YSRV¥U^S]
@HWI-EAS443:3:73:834:1491#0/1
GTTCTTCAATGGTGAACAGATCTTCATGATCTCAGAGAA
+HWI-EAS443:3:73:834:1491#0/1
^`abaab_^_aaXaaaa`_aaaaaaaa`^````aa_`__[
@HWI-EAS443:3:73:911:1495#0/1
CAAAATGCCATAAGCACCACATTCCTTATACTGGAGATC
+HWI-EAS443:3:73:911:1495#0/1
aZ`[]^]baabaa]ababb`a`a^`_a_a[a__`¥`aa_`
@HWI-EAS443:3:74:1061:371#0/1
GGCTGTATGGAGGATCTCCAGTATAAGGGAATGTGGTGCT
+HWI-EAS443:3:74:1061:371#0/1
_`_a`¥]¥a_^_¥[Z[X]¥V[SSVRQ][VTUWWLV[NXPT
@HWI-EAS443:3:74:1079:1209#0/1
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+HWI-EAS443:3:74:1079:1209#0/1
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@HWI-EAS443:3:74:1097:1169#0/1
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+HWI-EAS443:3:74:1097:1169#0/1
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@HWI-EAS443:3:74:1142:1512#0/1
CTTCTGGTACATCTGTTTCATCCTCAAGAATCCCCTTTGG
+HWI-EAS443:3:74:1142:1512#0/1
`aZ`_^PM[V`^`^aHW]XZ_^UY^]]¥W_]Y`GV]`_`
@HWI-EAS443:3:74:1463:1888#0/1
GACTGTTCAAGCTTTTCGCAAATGCTCCTAGCTAAAGTTT
+HWI-EAS443:3:74:1463:1888#0/1
__^bbabbbbaabaababbabaabab^abbaabbbby`_
@HWI-EAS443:3:74:150:568#0/1
AATTTCTAGCATGGTGGAGGCCATGGTGTCTAGGGCCCGG
+HWI-EAS443:3:74:150:568#0/1
`U]`^V`[]ZX`YP`UXZa]YUUXGTUUTS¥¥UUMSTT
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+HWI-EAS443:3:74:1542:1700#0/1
W`¥bZb_bba]_bab¥b`baaab^[`aaa`aabb_a]ab^
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+HWI-EAS443:3:74:1604:255#0/1
ab`^`_a_Q_Z^aR^a¥[]S¥U_]S¥¥0`^`^¥_U`]]RH
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TGCCGGTTGATTTCTGTTTAATGTCCAATCATAAGTCTGG
+HWI-EAS443:3:74:163:569#0/1
ab_^^^bY]`ZWZ]`RYRab_a]_`VH]`__^[XW_]UU
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GCTGTATGGAGGATCTCCAGTATAAGGGAATGTGGTGCTT
+HWI-EAS443:3:74:1703:408#0/1
^_[^¥¥^`^`^`a^a]]VVV[___aYZ]a`H`]ZY`XN^W^Z
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GAGTCTTCAATGGTGGAAACAGATCTTCATGATCTCAGAG
+HWI-EAS443:3:74:280:806#0/1
a^]a^_a`a¥Va]_S`a^a`aa_]`__aa^a`^`_`_`a__
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GGAACATTCGAGGATTTTGATTTTCATTCCACTTAGTGTT
+HWI-EAS443:3:74:456:192#0/1
_Zabaa`aa¥Vaa_b]aa_SW`_TW`a`_a`^a^V^Xa^]
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+HWI-EAS443:3:74:553:1209#0/1
^WZ`¥`¥_a]HP`OKUZXXZaZ_X]^YZP`_U[Za[___`^Z
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ATTTATATAGGACTTCTTTTTGCTCATGTTGATTCCCCT
+HWI-EAS443:3:74:558:721#0/1
aabbaa¥aa`a`abbaaaaaaaaaaaa`a]aa`a`````_`a
@HWI-EAS443:3:74:590:816#0/1
CTTCAATGGTGGAAACAGATCTTCATGATCTCAGAGAACTC
+HWI-EAS443:3:74:590:816#0/1
aaa`a]aaa_aa]aaa]```aaaa_a```_a^^____```_`

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+HWI-EAS443:3:74:592:206#0/1
abbabbbbabbbbabbabbbbbaaa`abaaaa]aa^_
@HWI-EAS443:3:74:677:702#0/1
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+HWI-EAS443:3:74:677:702#0/1
aa`b]aaaaaa`baa`aaa_a_`aa`]]]_VY`YT]a[
@HWI-EAS443:3:74:796:1830#0/1
CTTTGTTGAACTTTAGCTAGGAGCATTTCGCGAAAAGCTT
+HWI-EAS443:3:74:796:1830#0/1
ababa_`a`aaabbabbbbbaa]aaa_aaa`aa`]]_a
@HWI-EAS443:3:74:804:1343#0/1
CCAGACTGTTCAAGCTTTTCGCAAATGCTCCTAGCTAAAG
+HWI-EAS443:3:74:804:1343#0/1
aaaaabaU`^_a]U[b^]_]a`bb¥[Y`_]a]YXa_PT]
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+HWI-EAS443:3:74:811:1253#0/1
aMHVvaaba` `[` []aaZUYZV`_MHIFQWXL[TTUX[X
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+HWI-EAS443:3:75:1035:820#0/1
_a_b`a`aaa^a_U_bbbbb_V]`aabbaa`]aa_a``
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+HWI-EAS443:3:75:1134:1005#0/1
abb[aabaabbaaaSba`ba`a`Z`_Y]`aa_``]a`a_
@HWI-EAS443:3:75:1186:1290#0/1
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+HWI-EAS443:3:75:1186:1290#0/1
aa`aa`a]a`_`^`_`a]^^^_¥_``W^]_^]_
@HWI-EAS443:3:75:1212:1954#0/1
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+HWI-EAS443:3:75:1212:1954#0/1
abbb`b_a`_ba`a`abbaaaaa`^`a`__a`a`__ba_
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+HWI-EAS443:3:75:1216:1728#0/1
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@HWI-EAS443:3:75:154:945#0/1
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+HWI-EAS443:3:75:154:945#0/1
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+HWI-EAS443:3:75:1656:1618#0/1
aabb__b` `[baaaaaa`aaaYa`]`aaR`^aa_aQa
@HWI-EAS443:3:75:412:307#0/1
GAAAATCAAATCCTCGAATGTTCTGGCGATGATTACAT
+HWI-EAS443:3:75:412:307#0/1
`[[[¥U]TXXY[V]UN[VQ¥QMJVXOQ[BBBBBBBBBBBB
@HWI-EAS443:3:75:454:413#0/1
TTCAATGGTGAACAGATCTTCATGATCTCAGAGAACTCT
+HWI-EAS443:3:75:454:413#0/1
aa`¥`aba^a`^a^aa^`a`a_`_] ^____^`_]`^`
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GGACTTCTTTTTGCTCATGTTGATTCCCACTAACTTGACAG
+HWI-EAS443:3:75:57:776#0/1
^^^`_bbbabaaaaa_]_a`_`^`^Y]__aa`] ^`_Z_Z
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+HWI-EAS443:3:75:659:472#0/1
aabbababaabbaabaabb`bb`aa`aaaaaba`_aaa
@HWI-EAS443:3:75:69:907#0/1
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+HWI-EAS443:3:75:69:907#0/1
aaa_aaaaa`]¥aaZa`]a_a`_]`a^^`a_`^`[^_`
@HWI-EAS443:3:75:92:207#0/1
GTGTCTTGTGAATTAGTCATCATCTTTCTCACAACATTTG
+HWI-EAS443:3:75:92:207#0/1
``_aabaababbbbaaaaaaaa`aaaaa^`]aa_aa`_`
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CAGTGATAAAGAACAACATGATAAACAATGACCTTGGACC
+HWI-EAS443:3:75:93:1050#0/1
aaaV`]aXZaUaaa_W^`][____`__a_V`_^^_]¥^_
@HWI-EAS443:3:76:1071:1117#0/1
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+HWI-EAS443:3:76:1071:1117#0/1
abbbbbbbbbbaabb`baabbbbbbabbb`abba`aaZa
@HWI-EAS443:3:76:1242:1479#0/1
ACACCATGGCCTCCACCATGCTAGAAATCCAACCGGTCT
+HWI-EAS443:3:76:1242:1479#0/1
aaaa`bYNYaa`_`_]_`^`_`_`_`^a`_`^`^ZZ[Q¥¥
@HWI-EAS443:3:76:1292:1681#0/1
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+HWI-EAS443:3:76:1292:1681#0/1
aabb`abZaaa]¥_]aaa]a_a_XPX`]VNR^] ^XX_^P
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+HWI-EAS443:3:76:1332:1823#0/1
ababa]abba^_baPba`a¥a`a¥_`^¥]¥¥U^aa`^¥Wa`
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+HWI-EAS443:3:76:1384:1471#0/1
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+HWI-EAS443:3:76:1450:529#0/1
aabb`bbb``aaaJaaabXbb`aab_aa`bY`aaaa[Y[_
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TGCCAGCCCATGGTCCAGCCAAAAGCATGGAATATGATGC
+HWI-EAS443:3:76:1450:607#0/1
^_aa¥a__Z__YXGX¥`_]Z[___¥W_WU_]¥¥¥__¥WWW
@HWI-EAS443:3:76:1503:1678#0/1
CTGGGGACAACACTAAGTGAATGAAAATCAAATCCTCG
+HWI-EAS443:3:76:1503:1678#0/1
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+HWI-EAS443:3:76:1558:1930#0/1
abb¥abbbbbbbb_bbbabbbbbbbbbbaabbbbbabb
@HWI-EAS443:3:76:1666:248#0/1
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+HWI-EAS443:3:76:1666:248#0/1
aabba_b`a]aaaaUaa_a[[^_] [YV_¥UWU¥¥YUUU¥_
@HWI-EAS443:3:76:1677:128#0/1
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+HWI-EAS443:3:76:1677:128#0/1
```a`aaWaa\_a`TY¥]a`R`ZUYT^^¥NRO^\_K¥¥VKPR  
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+HWI-EAS443:3:76:1678:1589#0/1  
aa`aX^abb^aa`aaa[aa][\_a`aa]aa`[U`¥``\_`\_Z  
@HWI-EAS443:3:76:237:403#0/1  
TGAAAATCAAATCCTCGAATGTTCTGGCGATGATTACA  
+HWI-EAS443:3:76:237:403#0/1  
a`\_`[\_aa\_``a^V[¥[\_\_\_\_`\_]\_^]\_^ZXX[X]XVP[  
@HWI-EAS443:3:76:253:51#0/1  
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+HWI-EAS443:3:76:253:51#0/1  
aba]bbaaaaabaaa`a\_`a`a`\_a`Zaa`\_S^\_\_\_\_VX\_  
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+HWI-EAS443:3:76:270:1301#0/1  
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@HWI-EAS443:3:76:447:715#0/1  
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+HWI-EAS443:3:76:447:715#0/1  
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+HWI-EAS443:3:76:548:1138#0/1  
`a^aaaaZV^\_aa``a``¥ZX]`^`[ZPX¥]`^]¥¥[¥Z  
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+HWI-EAS443:3:76:680:1965#0/1  
a`ab^a^aaaa`a\_`¥aaa`]XWa`^a`aaa`a^XW\_ZU  
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+HWI-EAS443:3:76:725:718#0/1  
]T\_`Za`bb`b]\_aab`^¥\_b`baaa\_b]Z\_aa¥aa[Y``  
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TTTCTAGCATGGTGGAGCCATGGTGTCTAGGGCCCGGAT  
+HWI-EAS443:3:76:891:972#0/1  
ab`ba^a`baa^X`a`a`aa\_]¥P¥T`WR^X¥]`]]XY^  
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+HWI-EAS443:3:76:956:1011#0/1  
aXUX\_^]\_\_Y¥\_[]QZ^^]\_^VYXX^]^^WZ[]W^]\_]Z]  
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+HWI-EAS443:3:76:962:93#0/1  
`b¥aa\_L¥Y]¥bba\_\_ab\_ba^\_R[\_\_\_\_aXQ\_`^a`Sa[  
@HWI-EAS443:3:76:974:1015#0/1  
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+HWI-EAS443:3:76:974:1015#0/1  
aaaaa`]Za`^Zaa`aa`aa`^aa]Z\_\_`^`\_\_\_\_YV^^  
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+HWI-EAS443:3:76:988:1315#0/1  
aa\_a`¥^aaaa`a^aa`¥]`Ua^Y\_`\_]aa`]\_\_\_\_YU^  
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+HWI-EAS443:3:77:1019:1622#0/1  
^\_U¥b`b^b]baa`a\_a`\_aa``\_Xa`aa\_\_\_\_`V^`a\_a\_  
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+HWI-EAS443:3:77:1167:196#0/1  
abbaaab¥baaaa\_aaa\_a¥`a`[a\_aa\_`a`aa```\_^U  
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+HWI-EAS443:3:77:1345:1613#0/1  
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GCTGTATGGAGGATCTCCAGTATAAGGGAATGTGGTGCTT  
+HWI-EAS443:3:77:1348:919#0/1  
a]a`]`a`]`Y`\_\_a^Z`\_^Y`a[P[a\_Uaa`\_a`Y\_U\_\_  
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+HWI-EAS443:3:77:1366:988#0/1  
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@HWI-EAS443:3:77:1445:1489#0/1  
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+HWI-EAS443:3:77:1445:1489#0/1  
¥¥b]b`VZ]bb\_\_\_ba]]T[[]`YRa]baa`abYaba^^  
@HWI-EAS443:3:77:1530:826#0/1  
CTTCTTTTTGCTCATGTTGATTCCCCTAACTTGCAGGTC  
+HWI-EAS443:3:77:1530:826#0/1  
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+HWI-EAS443:3:77:206:1488#0/1  
aba`baabbaaabbbbaaa`b`]aa\_ba\_\_aa^a\_a`a^a  
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GGGGACAACACTAAGTGAATGAAAATCAAAATCCTCGAA  
+HWI-EAS443:3:77:320:452#0/1  
aaa\_abaaaa`aa\_bZa`aa`aaaa\_]`^aa\_¥^`\_a`W  
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+HWI-EAS443:3:77:357:1356#0/1  
ab^a`\_aaa\_baaaa\_aYK]`[[N\_¥TSP`X¥X¥Z]¥¥  
@HWI-EAS443:3:77:496:291#0/1  
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+HWI-EAS443:3:77:496:291#0/1  
a]aa`aa`aaaaaaaa`a¥`\_`\_`^a^```[\_\_`\_\_  
@HWI-EAS443:3:77:536:282#0/1  
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+HWI-EAS443:3:77:536:282#0/1  
abaabbabbbbb`bbbbbaabaabba]aa`aba`a\_  
@HWI-EAS443:3:77:597:1776#0/1  
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+HWI-EAS443:3:77:597:1776#0/1  
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@HWI-EAS443:3:77:643:348#0/1  
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+HWI-EAS443:3:77:643:348#0/1  
ab``aaa^V\_U`aaa\_aaa`aaaa`]^\_`\_\_\_a]^`a`\_  
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+HWI-EAS443:3:77:676:1481#0/1  
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@HWI-EAS443:3:77:698:1945#0/1  
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+HWI-EAS443:3:77:698:1945#0/1  
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GTCTTATTTATATAGGACTTCTTTTTGCTCATGTTGATTC  
+HWI-EAS443:3:77:710:779#0/1  
a\_aaaRaaa[¥`\_aTa[aa`^a`aaa`\_`^a^a\_\_¥`^a`\_  
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+HWI-EAS443:3:77:836:146#0/1  
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+HWI-EAS443:3:78:1033:39#0/1  
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+HWI-EAS443:3:78:1397:855#0/1  
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+HWI-EAS443:3:78:1710:451#0/1  
aaa\_U[`a^X`aaFaaa`\_[F^T]`P\_PPP[a^BBBBBB  
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+HWI-EAS443:3:78:1785:1024#0/1  
aa`a`\_\_aaa¥^^aa`RVa\_\_]Z¥^^[^\_\_^`\_^]^WY\_  
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+HWI-EAS443:3:78:194:1410#0/1  
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+HWI-EAS443:3:78:267:79#0/1  
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+HWI-EAS443:3:78:292:1412#0/1  
\_]`\_\_\_\_¥V`\_Yaaa`a`a``aZ`aaa[[YZ`\_¥¥[[\_`^



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+HWI-EAS443:3:79:1548:1169#0/1  
aba`[b`^`aaaaZb\_a``aaa¥¥]a`a`a[a^`VXVUU  
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\_ba]a`a[¥Y¥ba`[Xaaaa¥baZU^aba^][[¥[[WS[Y  
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+HWI-EAS443:3:79:752:1907#0/1  
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ababb\_a`¥]¥\_bba]bb^\_]a]aabaa`X`a\_\_X\_^`a\_  
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+HWI-EAS443:3:79:826:1083#0/1  
`a`\_\_aa`^a\_Xa^`a\_aZJ`aaaaaaaa`^^^`^`^V\_  
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aa\_^aaaaaaaaZZW`a^]¥Wa^a`^a\_\_`a\_`^`\_a`  
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+HWI-EAS443:3:7:1776:563#0/1  
aa`\_a]aa`aa`a\_QZ\_aa`]^\_X[]\_a`^UXX\_X]X]X]  
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aa\_WaaaX`aa^aYaa^baaaa\_`a\_aa\_[aaa`a^a¥\_\_  
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+HWI-EAS443:3:7:196:197#0/1  
`V\_abaS`aV\_aaaab`a`\_`a]¥`\_\_`\_`a`\_`S[SV`  
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+HWI-EAS443:3:7:398:797#0/1  
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aaaa¥aaaaa\_aaa^`a`\_\_a\_```\_\_\_\_^`\_\_Y^\_^\_`¥  
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+HWI-EAS443:3:7:782:807#0/1  
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aaa`a`aaa````a`[aa]aaaa\_`\_`\_a`\_`a¥]^`a^\_  
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+HWI-EAS443:3:80:1023:1969#0/1  
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aba`bbaaaaWUa\_aaaaYa`^aaaaaaaaaaaa\_\_\_aa`\_  
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+HWI-EAS443:3:80:1369:306#0/1  
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+HWI-EAS443:3:80:1380:1575#0/1  
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+HWI-EAS443:3:80:157:552#0/1  
]M\_aaaa`[UY]`]]`¥`a` `¥`V\_\_\_\_\_`UQTXXY¥VY^  
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a)`NY\_TY^¥`a`]YV^W]aZT]\_QXR¥¥[\_][[^W\_^\_S  
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CTTCTTTTTGCTCATGTTGATTCCCCTAACTTGCAGGTC  
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+HWI-EAS443:3:80:1720:412#0/1  
Xa` `^`\_`[YYR0^a` `]\_N\_^`\_ZZ`^aaZ]` `ab[a\_]Q  
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aaaa\_X¥a`\_a`aaa\_a`\_a`\_a`\_`\_^^`\_`\_\_\_\_\_  
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aaa^`aaabb^X`¥a`aYaa]\_^]^`\_a]^`^Z\_\_^YV  
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]¥\_\_bbaaa\_ZaZ[R][F^\_aY\_aa^aa^a`^`\_aY`W  
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+HWI-EAS443:3:80:896:983#0/1  
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+HWI-EAS443:3:80:904:1711#0/1  
`¥¥^a\_Y\_\_Z\_YFU)`[aa¥S¥[\_a`\_]a\_Z\_^a\_Y]¥¥  
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aaaaa`baaaaaa`\_a`\_`^aa`\_`\_a`\_`\_^a^`Z\_  
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+HWI-EAS443:3:81:1043:365#0/1  
aaaaaa\_a\_aaa`\_`aaaaa^a^\_aa]a^^`¥`^S]\_  
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\_]babX¥]VSa\_]Yaab^aa[Ra\_bb^QW`XP¥aa\_]aa  
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+HWI-EAS443:3:81:1281:1180#0/1  
I\_Z\_Z^`\_Z^aYX[\_ZUa^¥\_U¥a``¥YZ`a[[\_TYYW\_[  
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@HWI-EAS443:3:81:1580:951#0/1  
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+HWI-EAS443:3:81:1580:951#0/1  
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+HWI-EAS443:3:81:204:1470#0/1  
a``^W`abaaaa`aabaa`a]`\_`a`\_\_`\_\_a^\_^]\_^]\_  
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a\_aaaa`a`a\_aaV\_\_\_\_\_`\_`^^`¥¥\_WY¥]¥^¥¥\_¥^W  
@HWI-EAS443:3:81:238:1728#0/1  
ATGCCATAAGCACCACATTCCCTTATACTGGAGATCCTCC  
+HWI-EAS443:3:81:238:1728#0/1  
a[^`^a¥]ZU]^`\_\_\_\_^]Y\_`\_^]aV\_\_[Y]]X^WVZVVT  
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CCGTTTGAATTTCTAGCATGGTGGAGGCCATGGTGTCTA  
+HWI-EAS443:3:81:314:1381#0/1  
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+HWI-EAS443:3:81:382:789#0/1  
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@HWI-EAS443:3:81:575:1196#0/1  
AGACAGGGACATTTGAATTCACAAGCTTTTTTATCGCTA  
+HWI-EAS443:3:81:575:1196#0/1  
a\_`aU\_aa^`Ya``\_¥``a`\_a\_\_YZ\_¥aa]a^`\_¥^\_^  
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+HWI-EAS443:3:81:640:1382#0/1  
abaaaa`bbaaab\_aaa\_abbaaaa^aa`aaaa\_`aa`\_`  
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GTTCTTCAATGGTGAACAGATCTTCATGATCTCAGAGAA  
+HWI-EAS443:3:81:723:723#0/1  
`^a`aa\_a`\_`\_]Ya][[\_``^`]^`^`¥]Y^\_\_^\_Y]\_\_Z  
@HWI-EAS443:3:81:749:1020#0/1  
GCATCATATTCCATGCTTTTGGCTGGACCATGGGCTGGCA  
+HWI-EAS443:3:81:749:1020#0/1  
a`ab^bbVbbbbbb`baa``aaabaaa\_UYabaaa`  
@HWI-EAS443:3:81:804:1823#0/1  
GTGGGAATCAACATGAGCAAAAAGAAGTCCTATATAAATA  
+HWI-EAS443:3:81:804:1823#0/1  
a\_`aa`bababaaa\_abaaaa\_\_a`^```aa]aa\_`aa  
@HWI-EAS443:3:82:1009:571#0/1  
TGGAATTTCTAGCATGGTGGAGGCCATGGTGTCTAGGGCC  
+HWI-EAS443:3:82:1009:571#0/1  
aab¥abbbababaabaa`b``a\_a`\_a`¥a^a¥``\_^]`^  
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+HWI-EAS443:3:82:1035:1276#0/1  
]Z]aa`abU^b`W`[\_`abaa`bbaaaa`¥baa\_`a```¥  
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+HWI-EAS443:3:82:1084:1817#0/1  
ab`ba`\_`^\_ba\_Ra]\_aaa^\_a`\_Yaaaa\_`a`\_\_\_\_`\_a  
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+HWI-EAS443:3:82:1358:1897#0/1  
`a[aaa^aaaaa^`a[aaaa^aaYX¥¥\_S[\_`N\_Q¥WTUYT  
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+HWI-EAS443:3:82:1410:871#0/1  
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+HWI-EAS443:3:82:1421:258#0/1  
^ababbbabbbbaabbbba\_abbbbb`babbabaab^Sb`  
@HWI-EAS443:3:82:1529:876#0/1  
GACTTCTTTTGTCTCATGTTGATTCCCACTAACTTGCAGG  
+HWI-EAS443:3:82:1529:876#0/1  
¥\_b`^WVba¥¥V]ba^^\_\_`ZQ`a]X^aX\_a```aa]`^W  
@HWI-EAS443:3:82:152:1279#0/1  
TGTCCATGGTGTATCCTGTTCCCTGTTCCATGGCTGTATGG  
+HWI-EAS443:3:82:152:1279#0/1  
T^¥a[[baWXZ^T[\_W`WRX\_b][M]V\_RRaW\_BBBBBBB  
@HWI-EAS443:3:82:1717:1237#0/1  
CTCTGTGTCTTGTGAATTAGTCATCATCTTTCTCACAACA  
+HWI-EAS443:3:82:1717:1237#0/1  
X^a`^`aV`aa`Tab`J`a\_QUZa¥^aHaab]`T`^¥aVb

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+HWI-EAS443:3:82:1766:268#0/1  
^¥aabb]\_\_S^ab\_[\_¥Z`bbbaY^\_abbbba\_\_N\_¥\_  
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AACAGTGATAAAGAACAACATGATAAACAATGACCTTGGA  
+HWI-EAS443:3:82:309:240#0/1  
aaaab\_baaaa`\_aa`a`\_aa\_a^`\_aa\_`¥^\_^]^^\_\_  
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+HWI-EAS443:3:82:330:1490#0/1  
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+HWI-EAS443:3:82:366:1441#0/1  
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+HWI-EAS443:3:82:382:447#0/1  
abb`bb\_bbab]abaabaabaaaaaa`a`a`aa\_`^  
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+HWI-EAS443:3:82:388:1858#0/1  
aSNZ\_a¥^¥^b^`Y\_`a¥^^S]aa[^X[^UKZXTSQXZ  
@HWI-EAS443:3:82:40:1542#0/1  
CAATGGTGAACAGATCTTCATGATCTCAGAGAACTCTTC  
+HWI-EAS443:3:82:40:1542#0/1  
a^^^a^[aa`¥baaY`aa\_ab^^^^a`\_a¥\_]VZa\_\_^]a  
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ATGCCATAAGCACCACATTCCCTTATACTGGAGATCCTCC  
+HWI-EAS443:3:82:425:640#0/1  
aaaa\_aaaaaa`\_aa`\_`a\_\_a\_a\_\_[\_^\_a\_VY]¥\_R  
@HWI-EAS443:3:82:434:388#0/1  
TGAGTTCTTCAATGGTGAACAGATCTTCATGATCTCAGA  
+HWI-EAS443:3:82:434:388#0/1  
\_Z\_Z¥Ybaa^SXZb\_R\_`X^]a`¥`^a]]`\_a\_¥a[[[  
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+HWI-EAS443:3:82:537:1355#0/1  
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@HWI-EAS443:3:82:542:614#0/1  
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+HWI-EAS443:3:82:542:614#0/1  
aaaaaabaaa`aaab\_aa\_aaa`\_\_aa^`\_]aa^\_aa\_a`  
@HWI-EAS443:3:82:545:1872#0/1  
CTTTGTTGAACTTTAGCTAGGAGCATTTGCGAAAAGCTT  
+HWI-EAS443:3:82:545:1872#0/1  
ab]`aaaab`Yaba`a^ba`aaaa`aa`\_a\_\_aa^`\_^\_  
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+HWI-EAS443:3:82:555:92#0/1  
a^`aaaa\_aa`a\_aaa]aa\_a\_aaa`a¥^^`a[\_\_\_]\_[]]  
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+HWI-EAS443:3:82:556:1499#0/1  
\_I`aaaa\_`^ba`\_]bbab\_aa`¥`aa\_a\_a`aa`^^]a  
@HWI-EAS443:3:82:73:571#0/1  
GTTCTTCAATGGTGAACAGATCTTCATGATCTCAGAGAA  
+HWI-EAS443:3:82:73:571#0/1  
^QUX\_T]RJX][O\_`YX[[WIO`[[¥OG^YYWT¥YWZ¥Z  
@HWI-EAS443:3:82:760:916#0/1  
CAAAGGGATTGAGGGATTACAAAGTCTTCCCGATAATC  
+HWI-EAS443:3:82:760:916#0/1  
abb`abbbbbbba`bababbaabbaaaaaaaaa`aaaaa^b`  
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+HWI-EAS443:3:82:794:296#0/1  
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+HWI-EAS443:3:82:899:1952#0/1  
V[b¥¥^baaa`X`\_Q¥b\_b`^`aba`Ubbab][TZX\_¥S]  
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+HWI-EAS443:3:82:938:153#0/1  
ab\_`a`abaa`abaXaa^a^\_a`a\_aa^aab``[^^\_^`a  
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+HWI-EAS443:3:82:949:532#0/1  
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@HWI-EAS443:3:83:1001:1456#0/1  
CGGTTGATTTCTGTTAATGTCCAATCATAAGTCTGGCGA  
+HWI-EAS443:3:83:1001:1456#0/1  
\_\_MU`¥\_]¥`Z[Y\_a]^`¥S^S[``Y¥^a[ZZZ\_Z]]X]  
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TCCCTGTCTTATTTATATAGGACTTCTTTTTGCTCATGTT  
+HWI-EAS443:3:83:1210:829#0/1  
aaa`aaaaab]baa`aaa`\_`\_\_aa\_aaa\_a`\_`a\_\_`]]  
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+HWI-EAS443:3:83:1310:57#0/1  
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@HWI-EAS443:3:83:1433:836#0/1  
CAGTGATAAAGAACAACATGATAAACAATGACCTTGGACC  
+HWI-EAS443:3:83:1433:836#0/1  
abb`^aba`baY`ab^`aa`aa`Z]X\_\_aa\_^]aa\_a\_ZO  
@HWI-EAS443:3:83:1485:359#0/1  
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+HWI-EAS443:3:83:1485:359#0/1  
a\_^a`aa¥^bba\_¥\_`ba\_Waa¥T\_\_¥VV\_WZTVSWU[TM

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GACCGTTGGAATTTCTAGCATGGTGGAGGCCATGGTGTC  
+HWI-EAS443:3:83:1543:1229#0/1  
aaaVbbababb`aa`aba¥YaaaX¥a\_`U¥¥S¥YSYS¥X[  
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ACTTTGTTGAACTTTAGCTAGGAGCATTTCGAAAAGCT  
+HWI-EAS443:3:83:1545:70#0/1  
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+HWI-EAS443:3:83:1563:1787#0/1  
¥aa]¥W`HU`W^a^[OU^`¥^aW[a[R^W\_LQROFX\_`O]  
@HWI-EAS443:3:83:1765:879#0/1  
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+HWI-EAS443:3:83:1779:1907#0/1  
XR[T`aXP\_V\_IUN^a]X¥V`]Q^]GVJRSR^\_ZXUSSN  
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+HWI-EAS443:3:83:253:1376#0/1  
Y¥Z^]\_^\_UZ`bbabbXabaaba]a[abbaXY`aaP`[[¥  
@HWI-EAS443:3:83:454:607#0/1  
TTCGAGGATTTTGATTTTCATTCCACTTAGTGTGTC  
+HWI-EAS443:3:83:454:607#0/1  
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+HWI-EAS443:3:83:642:1314#0/1  
a^Z]V\_\_J[PZZb^Z¥]¥\_Q^Za]P]¥]`][¥aa^Yaa`\_  
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+HWI-EAS443:3:83:645:1744#0/1  
aa`aaaU\_a`a\_\_`\_a\_a]`\_a```]\_\_`]^`^`\_Y^][^W\_  
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+HWI-EAS443:3:83:658:1260#0/1  
aaa`aaaa\_]`^VS]^¥X`a`a]X^XUVWW^TU¥¥W^[ZY  
@HWI-EAS443:3:83:685:1072#0/1  
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+HWI-EAS443:3:83:685:1072#0/1  
Zaaaaaa`aaaY^aaa`b`\_\_a]VLS\_XY`XOS¥YL]UUT  
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+HWI-EAS443:3:83:703:133#0/1  
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+HWI-EAS443:3:84:1362:292#0/1  
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+HWI-EAS443:3:84:1408:106#0/1  
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+HWI-EAS443:3:84:1420:365#0/1  
]\_ZWbTa`\_a\_\_aQ\_¥Z\_ZV¥\_QRYaW[\_a¥PMF[aXQU^  
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+HWI-EAS443:3:84:1525:1250#0/1  
aU\_\_NV^a\_RY`YWa^`Y``US\_^^V^[G]]W\_V\_V¥\_TV  
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+HWI-EAS443:3:84:157:1895#0/1  
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+HWI-EAS443:3:84:1589:1596#0/1  
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+HWI-EAS443:3:84:193:531#0/1  
abaabaT`aaa`\_ab\_aa¥[a`a`\_```]a`a`\_`aa\_\_`  
@HWI-EAS443:3:84:292:1516#0/1  
CAAAATGCCATAAGCACCATTCCTTATACTGGAGATC  
+HWI-EAS443:3:84:292:1516#0/1  
^[YTR¥\_aa\_^]ZV]W][^\_^]\_V\_]\_Ya\_WVTVZX]  
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+HWI-EAS443:3:84:349:687#0/1  
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+HWI-EAS443:3:84:498:263#0/1  
a^^^\_aaaabYaa`aaa\_a\_aaa\_Z\_a`a`a`\_``[\_\_\_

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+HWI-EAS443:3:84:556:1653#0/1  
\_] ^baaa`Y]P\_[\_a\_] ]a\_\_\_Wa¥aa\_\_`\_`a¥aZ\_a` ]  
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+HWI-EAS443:3:84:578:1911#0/1  
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CTTCTGGTACATCTGTTTCATCCTCAAGAATCCCCCTTTGG  
+HWI-EAS443:3:84:819:1299#0/1  
abbbbbbb`aababa\_aaaaaababb^\_aabaaaaa`\_a\_  
@HWI-EAS443:3:84:892:865#0/1  
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+HWI-EAS443:3:84:892:865#0/1  
a` ``bbba`abbbbababababa\_aabaabaaaa`abaa`  
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+HWI-EAS443:3:84:930:1621#0/1  
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+HWI-EAS443:3:84:952:1857#0/1  
aaZ]W\_aaa¥XX` [Uaa¥]ZV¥`¥`aT]¥\_RV[V`VPU¥¥  
@HWI-EAS443:3:85:1119:976#0/1  
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+HWI-EAS443:3:85:1119:976#0/1  
a\_a`abbabaaaa`^aa\_a`aa`\_a` ``aaa`\_a`aa[\_\_\_  
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+HWI-EAS443:3:85:1242:1808#0/1  
TQ[a[Z¥^ZUS\_IZ`\_Q` `PG\_b^S`ZaaVaV]ab^`\_` ]\_  
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@HWI-EAS443:3:85:1545:1086#0/1  
GCCAGACTTATGATTGGACATTAACAGAAATCAACCGGC  
+HWI-EAS443:3:85:1545:1086#0/1  
aa\_aa\_\_aa^bb`aaaa`^abaaaWaa`a`\_\_` `]X\_\_Z  
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+HWI-EAS443:3:85:1741:989#0/1  
\_]YaUb`¥R^a` ]JHPY\_]ZL^` [^^ZY[a¥QS[YZ]ZZX  
@HWI-EAS443:3:85:1742:1859#0/1  
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+HWI-EAS443:3:85:1742:1859#0/1  
`WSWX`\_U\_abZ\_aZ` ``\_aab¥SXUG`Ya[WGXaa`aPWX  
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+HWI-EAS443:3:85:1745:1380#0/1  
U^¥Z`¥Xaa\_R]DYa¥T`\_X¥Y\_ZU\_a`Z`V^aa``\_\_^  
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CTGTGTCCATGGTGTATCCTGTTCCCTGTTCCATGGCTGTA  
+HWI-EAS443:3:85:186:311#0/1  
a\_\_[a¥`X`Y`\_Y`^\_¥`^¥\_W^^W¥^Y¥¥^RW¥ZUUTMS  
@HWI-EAS443:3:85:199:105#0/1  
TGCCGTTGATTTCTGTTTAAATGTCCAATCATAAGTCTGG  
+HWI-EAS443:3:85:199:105#0/1  
aabab`PY¥G\_bba`babbaa`b`aa¥YbaZababY^a`^  
@HWI-EAS443:3:85:291:164#0/1  
AGTTCTTCAATGGTGAACAGATCTTCATGATCTCAGAGA  
+HWI-EAS443:3:85:291:164#0/1  
ababa`^`a[\_aa[aaTaaaa^]`\_`a`[\_`\_`\_`a`\_`\_]`  
@HWI-EAS443:3:85:307:90#0/1  
ATCCTGTTCTGTTCCATGGCTGTATGGAGGATCTCCAGT  
+HWI-EAS443:3:85:307:90#0/1  
a`aaaa\_a`aaa`\_\_^`\_`\_`¥\_QVYQ[U[YSUWWWWWP  
@HWI-EAS443:3:85:312:1558#0/1  
CTTGTGAATTCAAATGTCCCTGTCTTATTTATATAGGACT  
+HWI-EAS443:3:85:312:1558#0/1  
aaaa\_ababaaaaaa`\_baa`a^`\_`\_`aaaa`a`\_`^`  
@HWI-EAS443:3:85:367:201#0/1  
GAGTCTTCAATGGTGAACAGATCTTCATGATCTCAGAG  
+HWI-EAS443:3:85:367:201#0/1  
aabW^`^`aQVQ\_ZZZVU`XP\_R¥W`^`a¥[\_W[\_`\_^PX  
@HWI-EAS443:3:85:382:113#0/1  
CAAAATGCCATAAGCACCATCCCTTATACTGGAGATC  
+HWI-EAS443:3:85:382:113#0/1  
aaa`^P¥\_[\_a]a\_a^^`)]`^Z[^]\_[\_]`^`^UZZ^^  
@HWI-EAS443:3:85:550:1731#0/1  
ATCAAAATCCTCGAATGTTCTCGCGATGATTACATATAT  
+HWI-EAS443:3:85:550:1731#0/1  
a`abbabaa\_\_\_a\_aaa]\_a`^`[^`\_`\_`^`\_`\_`^`\_`\_`\_`\_`\_`  
@HWI-EAS443:3:85:561:102#0/1  
CCGTTGGAATTTCTAGCATGGTGGAGCCATGGTGTCTA  
+HWI-EAS443:3:85:561:102#0/1  
abbbabbbababbabaa^bbbbb`ba`aa^`^]abVb`UY¥  
@HWI-EAS443:3:85:634:1246#0/1  
GTGGGAATCAACATGAGCAAAAAGAAGTCCTATATAAATA  
+HWI-EAS443:3:85:634:1246#0/1  
a`a`b`babbbbaabaabbaa¥a`aaa^a\_aaaaaaaaaa  
@HWI-EAS443:3:85:65:1153#0/1  
TTCCAGCGCAAAATGCCATAAGCACCATCCCTTATAC  
+HWI-EAS443:3:85:65:1153#0/1  
aaaa\_¥`\_]`aaaX\_X\_a`^WXaa`[aXU¥`]W^]W`\_`  
@HWI-EAS443:3:85:77:685#0/1  
TTCTGGTACATCTGTTATCCTCAAGAATCCCTTTGGC  
+HWI-EAS443:3:85:77:685#0/1  
a¥a[P\_][O^`\_][QaTY¥UOZY]¥SVEHMKO^¥SRVFOWRW



@HWI-EAS443:3:85:900:482#0/1  
CTCATGTTGATTCCCCTAACTTGCAGGTCCTGTAGAATC  
+HWI-EAS443:3:85:900:482#0/1  
\_WU][`]H\_baW`a]Z\_aUI\_U[]`\_b]UW]`b[``]]V  
@HWI-EAS443:3:85:92:270#0/1  
GCGCAAATGCCATAAGCACCACATTCCCTTATACTGGAG  
+HWI-EAS443:3:85:92:270#0/1  
aabb`a]`a`aaa`^]a`a\_a`^`\_\_^\_\_]a^\_]X^  
@HWI-EAS443:3:85:965:1057#0/1  
GAGTCTTCAATGGTGAACAGATCTTCATGATCTCAGAG  
+HWI-EAS443:3:85:965:1057#0/1  
aab`abaab`a`a\_a`\_aa`\_]`^`\_`\_`\_a^`\_`\_`  
@HWI-EAS443:3:86:1034:729#0/1  
CGAGGATTTTGTATTTTTCATTCCACTTAGTGTGCCCCAG  
+HWI-EAS443:3:86:1034:729#0/1  
a`bbb^abbabY`bbaabbabababbbbaa``bbaVV¥[ba  
@HWI-EAS443:3:86:1062:761#0/1  
CAGCGCAAATGCCATAAGCACCACATTCCCTTATACTGG  
+HWI-EAS443:3:86:1062:761#0/1  
`babbabbabbbabbabaaaa\_a`abaaaaabaa`\_aa  
@HWI-EAS443:3:86:1119:841#0/1  
TGCTCATGTTGATTCCCCTAACTTGCAGGTCCTGTAGAA  
+HWI-EAS443:3:86:1119:841#0/1  
aa`aa`a`^`aa\_aa`^`\_\_\_aaa`\_`\_\_\_aaV¥`\_`\_WW`\_¥  
@HWI-EAS443:3:86:1158:1297#0/1  
CCGGTTGATTTCTGTTTAATGTCCAATCATAAGTCTGGCG  
+HWI-EAS443:3:86:1158:1297#0/1  
ab¥SRZ\_Z¥a[¥UVa¥¥`aa\_aa`a]a```¥ZY`\_`\_W`  
@HWI-EAS443:3:86:1205:1210#0/1  
CAATGGTGAACAGATCTTCATGATCTCAGAGAACTCTTC  
+HWI-EAS443:3:86:1205:1210#0/1  
I[``bb¥a\_abb¥b\_aab\_]ba\_\_Lab`\_HR\_bbbZb\_^  
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GGAGATCCTCCATACAGCCATGGAACAGGAACAGGATACA  
+HWI-EAS443:3:86:1216:298#0/1  
aba`aa`b`\_`bb\_aa`W`aba\_a]aa`\_`¥aa`\_`\_]`^  
@HWI-EAS443:3:86:1281:1774#0/1  
GGTCCAGCCAAAAGCATGGAATATGATGCCGTTGCAACTA  
+HWI-EAS443:3:86:1281:1774#0/1  
abUb`\_]`Uab`aaY[bba]abbbbaab\_ba`abZa`]]a  
@HWI-EAS443:3:86:1369:315#0/1  
GGAACATTGAGGATTTTGTATTTTTCATTCCACTTAGTGTT  
+HWI-EAS443:3:86:1369:315#0/1  
`ZZ`^V`^\_a][aQaa^aa^\_a`a]aa`^^^Zaa]\_W\_Z^  
@HWI-EAS443:3:86:161:40#0/1  
AGACTGTTCAAGCTTTTCGCAAATGCTCCTAGCTAAAGTT  
+HWI-EAS443:3:86:161:40#0/1  
aba`aa`a\_a`\_`\_`\_`\_¥^`[\_]^\_]`]]^Z]WHZ]V[  
@HWI-EAS443:3:86:1759:1407#0/1  
ATCCTGTTCTGTTCCATGGCTGTATGGAGGATCTCCAGT

+HWI-EAS443:3:86:1759:1407#0/1  
`aY\_aa^ba[aa\_a`ab`\_¥a\_\_R]`IG\_\_Q\_Z\_NU^UX  
@HWI-EAS443:3:86:259:1455#0/1  
ATGCCAGCCCATGGTCCAGCCAAAAGCATGGAATATGATG  
+HWI-EAS443:3:86:259:1455#0/1  
a]YZ`¥ZQ^S\_\_Y]]\_\_URTXZOTVY¥[ZYPTX\_XYMUU  
@HWI-EAS443:3:86:331:1066#0/1  
GTTCTGTTCATGGCTGTATGGAGGATCTCCAGTATAAG  
+HWI-EAS443:3:86:331:1066#0/1  
aY\_aa`aaa\_Oa`\_a\_VJWURUL[\_TUZ¥^THRUS¥Y¥^  
@HWI-EAS443:3:86:381:829#0/1  
GTTGCAACGGCATCATATCCATGCTTTTGGCTGGACCAT  
+HWI-EAS443:3:86:381:829#0/1  
`]Q`RSR[]^aa¥YZ]a¥XY]PY]SPYZSZRZ\_YKT¥PSQ  
@HWI-EAS443:3:86:634:340#0/1  
GCTTTTCGCAAATGCTCCTAGCTAAAGTTTCAACAAAGTA  
+HWI-EAS443:3:86:634:340#0/1  
]MX^^\_W\_Y^b`U[S`¥a[V]V]aSYSL[R]``][`¥ZHZ  
@HWI-EAS443:3:86:850:1135#0/1  
AGACTTATGATTGGACATTAACAGAAATCAACCGGCAGC  
+HWI-EAS443:3:86:850:1135#0/1  
\_\_bT¥SMaYa\_YU\_UW`]bba][[¥a]b]Z`b\_QX`]¥\_  
@HWI-EAS443:3:86:861:1071#0/1  
GCTGTATGGAGGATCTCCAGTATAAGGGAATGTGGTGCTT  
+HWI-EAS443:3:86:861:1071#0/1  
`\_aa\_aa^`aaa\_`¥\_`^a^`a`[``a[`]¥Y\_ZP[Z\_^  
@HWI-EAS443:3:86:965:832#0/1  
GCTGTATGGAGGATCTCCAGTATAAGGGAATGTGGTGCTT  
+HWI-EAS443:3:86:965:832#0/1  
aabaXaaa`\_a^]]`\_\_\_\_\_]]`[\_]X`[X\_\_X]X^^  
@HWI-EAS443:3:86:966:704#0/1  
CTTCTTTTTGCTCATGTTGATTCCCCTAACTTGCAGGTC  
+HWI-EAS443:3:86:966:704#0/1  
ab\_bbaa\_bbbbabbbbaaa\_aZNaabba\_bbbT^a]aX  
@HWI-EAS443:3:86:980:1149#0/1  
GATTTTCATTCCACTTAGTGTGTCCCCAGTGATTGTGAA  
+HWI-EAS443:3:86:980:1149#0/1  
]Sbb^bbbbb]b\_bbbbb¥\_\_baY\_aabaa^`Y`Ra¥ba\_  
@HWI-EAS443:3:87:1037:1230#0/1  
CATCTGTTTCATCCTCAAGAATCCCCTTTGGCTTGTGTTG  
+HWI-EAS443:3:87:1037:1230#0/1  
abbaabababbaaaababa`baaa`\_abab`\_aa`\_b`\_a  
@HWI-EAS443:3:87:1198:1182#0/1  
AAATGCCATAAGCACCATTCCTTATACTGGAGATCCT  
+HWI-EAS443:3:87:1198:1182#0/1  
abaaP]Zbbaaaa\_Y^aaaba`aaa`\_b]a`aaa^\_HNa  
@HWI-EAS443:3:87:1294:1005#0/1  
ACGGCATCATATCCATGCTTTTGGCTGGACCATGGGCTG  
+HWI-EAS443:3:87:1294:1005#0/1  
abbaaab`abaabaaaa¥aabaa`\_ba\_\_¥[`a`\_T^a

@HWI-EAS443:3:87:1507:1334#0/1  
GAGTTCCTCAATGGTGAACAGATCTTCATGATCTCAGAG  
+HWI-EAS443:3:87:1507:1334#0/1  
abb`bba`¥^bbaZ\_aaabXba¥b]abaaaaabX\_Qaaaa  
@HWI-EAS443:3:87:1665:1302#0/1  
AATCAAAATCCTCGAATGTTCTGCGGATGATTACATATA  
+HWI-EAS443:3:87:1665:1302#0/1  
aabaaa\_aa^Za]``]bb\_a\_¥`aa\_`\_ab\_[aVUaa\_a¥  
@HWI-EAS443:3:87:267:1287#0/1  
GCCGGTTGATTTCTGTTAATGTCCAATCATAAGTCTGGC  
+HWI-EAS443:3:87:267:1287#0/1  
aaa`a¥`aY]aaaa^aaa`aaY`\_\_`\_aa\_a\_\_]]\_[]\_  
@HWI-EAS443:3:87:304:289#0/1  
CAACACTAAGTGAATGAAAATCAAAATCCTCGAATGTTC  
+HWI-EAS443:3:87:304:289#0/1  
a`baaaba`b¥`aaabaa`aaaa`aaaa`\_aaa``aa``a  
@HWI-EAS443:3:87:328:1102#0/1  
GAGGATTTTGATTTTCATTCCACTTAGTGTGCCCCAGT  
+HWI-EAS443:3:87:328:1102#0/1  
^^`aabbbbbbbbaabaaa]ababa`aab`aaaaaa\_  
@HWI-EAS443:3:87:452:1657#0/1  
GCGCAAAATGCCATAAGCACCACATTCCCTTATACTGGAG  
+HWI-EAS443:3:87:452:1657#0/1  
a`\_`aaa\_aa¥`aYaa`]`\_\_a\_a`UXX`[^a]]]U\_]`  
@HWI-EAS443:3:87:473:193#0/1  
CTCCAGTATAAGGGAATGTGGTGCTTATGGCATTGCGC  
+HWI-EAS443:3:87:473:193#0/1  
`baa^TU\_a^X^a`S]aa[[]Xa[``[Y\_YRX^^^^\_¥Y\_  
@HWI-EAS443:3:87:544:598#0/1  
TTGAATTCACAAGCTTTTTTTATCGCTATGGATTTGTGGC  
+HWI-EAS443:3:87:544:598#0/1  
^\_YS^\_]\_ZUa^X\_]Y`Z]\_R^a^a]T^^aa¥a]]¥XVX`  
@HWI-EAS443:3:87:646:1090#0/1  
TGAAAATCAAAATCCTCGAATGTTCTGCGGATGATTACA  
+HWI-EAS443:3:87:646:1090#0/1  
aa^aaaa\_aaa`\_`Y^`\_]`\_`aY``\_]`\_`^]`\_`^[]Y\_  
@HWI-EAS443:3:87:820:104#0/1  
TAAGCACCACATTCCCTTATACTGGAGATCCTCCATACAG  
+HWI-EAS443:3:87:820:104#0/1  
a¥Y\_[[X]STY\_a`a\_aR^]V^`aa^^^^[ZVEPY¥]RS¥  
@HWI-EAS443:3:88:1004:1873#0/1  
GGAGGATCTCCAGTATAAGGGAATGTGGTGCTTATGGCAT  
+HWI-EAS443:3:88:1004:1873#0/1  
aaaaabaaaaa`^`^aaaabab\_aa`Y`\_Ua^aaa\_aY`¥a  
@HWI-EAS443:3:88:1009:418#0/1  
GAAAAAGGAGAGTAAGAGACAACATGACCAAGAAGATGGT  
+HWI-EAS443:3:88:1009:418#0/1  
aaaa`aa\_babYaaaaaa]a\_\_\_\_^`aY\_]\_\_^`a¥a\_X  
@HWI-EAS443:3:88:1059:1305#0/1  
CTTCTTTTTGCTCATGTTGATTCCCACTAACTTGCAGGTC

+HWI-EAS443:3:88:1059:1305#0/1  
^`^Y\_aab` `a\_] `b^] `bbaba` ^bab\_aS\_ab\_ `ba¥^  
@HWI-EAS443:3:88:1136:1741#0/1  
CAATGGTGGAAACAGATCTTCATGATCTCAGAGAACTCTTC  
+HWI-EAS443:3:88:1136:1741#0/1  
aaKabbWbaaa\_ `^¥bI` bbba` b[^a` a\_a[a` a^\_[^`  
@HWI-EAS443:3:88:1170:896#0/1  
CAAAATGCCATAAGCACCATTCCTTATACTGGAGATC  
+HWI-EAS443:3:88:1170:896#0/1  
`V^ab` a` aa` XZ\_aa\_\_ ^abbaWV[a^^` b]\_ `Y]aaa^  
@HWI-EAS443:3:88:1480:1112#0/1  
CAGCCAAAAGCATGGAATATGATGCCGTTGCAACTACACA  
+HWI-EAS443:3:88:1480:1112#0/1  
abbZabbaabbbabbabaabbbbb] ababb` bbaba^b\_b  
@HWI-EAS443:3:88:1540:1612#0/1  
CATGGTCCAGCCAAAAGCATGGAATATGATGCCGTTGCAA  
+HWI-EAS443:3:88:1540:1612#0/1  
UaV\_b` bbbb\_aaaaabbbbbbaaba\_baaaabb[abaab  
@HWI-EAS443:3:88:1642:36#0/1  
ATCTGTTCATCCTCAAGAATTCCTTTGGCTTGTGTTGA  
+HWI-EAS443:3:88:1642:36#0/1  
ab` bbabXba^\_a` a` `aaaa\_ ^\_a\_a^a\_aaaZa\_aZX  
@HWI-EAS443:3:88:164:2032#0/1  
CACAAGCCAAAGGGGAATTCTTGAGGATGAACAGATGTAC  
+HWI-EAS443:3:88:164:2032#0/1  
`bab` \_aba\_b` [aa^aaa\_ `a\_aaa¥XYb` Ga` ``WK[Z  
@HWI-EAS443:3:88:271:1026#0/1  
AATTTCTAGCATGGTGGAGGCCATGGTGTCTAGGGCCCGG  
+HWI-EAS443:3:88:271:1026#0/1  
^\_a\_` `^^ba^ [ `N]aa^adWRY]^PT¥^PHT` ^^U^YY  
@HWI-EAS443:3:88:330:483#0/1  
GTCCAGCCAAAAGCATGGAATATGATGCCGTTGCAACTAC  
+HWI-EAS443:3:88:330:483#0/1  
aX] `aaab]\_WXUaa\_a\_a\_aa\_ ` ` `a` ¥R] ` `X^] `]  
@HWI-EAS443:3:88:415:1350#0/1  
ATTATCGGGGAAGACTTTGTAATCCCCTGAATCCCTTTGT  
+HWI-EAS443:3:88:415:1350#0/1  
`aab` aaaaa` a\_\_ `aaa` ^aaa\_a` \_ ` \_\_\_\_\_^\_\_X\_ `Z  
@HWI-EAS443:3:88:448:541#0/1  
TTTGAATTCACAAGCTTTTTTATCGCTATGGATTTGTGG  
+HWI-EAS443:3:88:448:541#0/1  
`bbbbbbabbabbaa` aabaaaaaa\_aaaaa\_a\_aaZa`  
@HWI-EAS443:3:88:525:293#0/1  
TCCTGTTCTGTTCCATGGCTGTATGGAGGATCTCCAGTA  
+HWI-EAS443:3:88:525:293#0/1  
^bba` \_b` ``aaa\_\_ `a` ``]a¥[W¥]SXYMU¥W¥XLONQ  
@HWI-EAS443:3:88:548:829#0/1  
ACTTTAGCTAGGAGCATTTCGAAAAGCTTGAACAGTCTG  
+HWI-EAS443:3:88:548:829#0/1  
abab` \_\_aaabaaaaZ^] `a` `^` ^` ^` a\_aa¥Z]Y¥¥a` \_

@HWI-EAS443:3:88:557:629#0/1  
CGCCAGACTTATGATTGGACATTAACAGAAATCAACCGG  
+HWI-EAS443:3:88:557:629#0/1  
aa¥a]aXZzb`ba[aaaa`a\_aa¥a`a\_¥]`aa`a]^^  
@HWI-EAS443:3:88:672:712#0/1  
ACTAAGTGAATGAAAATCAAATCCTCGAATGTTCTGG  
+HWI-EAS443:3:88:672:712#0/1  
aaab`a\_baaabbabbababaaabaa`abaaaa\_aa\_a`\_  
@HWI-EAS443:3:88:700:391#0/1  
GTTCTTCAATGGTGAACAGATCTTCATGATCTCAGAGAA  
+HWI-EAS443:3:88:700:391#0/1  
^]]\_aaZ^aaXa¥`a\_[]^`]]`aa\_a\_]\_\_\_Z\_\_`[W  
@HWI-EAS443:3:89:1019:2024#0/1  
GGAGGATCTCCAGTATAAGGGAATGTGGTCTTATGGCAT  
+HWI-EAS443:3:89:1019:2024#0/1  
a`[\_S]\_`aab¥Saa`aa`]]`Yaaa`a`Z¥aa`^YXZP]\_  
@HWI-EAS443:3:89:1029:140#0/1  
CTAGCATGGTGGAGGCCATGGTGTCTAGGGCCCGGATTGA  
+HWI-EAS443:3:89:1029:140#0/1  
aT`baa`bbXb]]]ba`aaab`RaU\_WX`a`J`a^VaaZ^  
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CAAAATGCCATAAGCACCACATTCCTTATACTGGAGATC  
+HWI-EAS443:3:89:112:1521#0/1  
a`bbb`aa`aabb\_a\_aaa`\_`\_\_\_\_^\_\_\_\_`^[]]^VYU  
@HWI-EAS443:3:89:1132:1059#0/1  
GCAAAATGCCATAAGCACCACATTCCTTATACTGGAGAT  
+HWI-EAS443:3:89:1132:1059#0/1  
]\_¥\_]¥\_a^^a`^¥UZ\_b`^Z^\_ZSRR\_baab`^\_R\_[]N  
@HWI-EAS443:3:89:1139:85#0/1  
CATTCGAGGATTTTGATTTTCATTCACCTAGTGTGTC  
+HWI-EAS443:3:89:1139:85#0/1  
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@HWI-EAS443:3:89:1170:1234#0/1  
GAGTCTTCAATGGTGAACAGATCTTCATGATCTCAGAG  
+HWI-EAS443:3:89:1170:1234#0/1  
^\_LSaVb`S[aa^b\_bb[]]a`a\_aa`aZa`aa`\_`[\_^aa  
@HWI-EAS443:3:89:1559:1132#0/1  
CAACACTAAGTGAATGAAAATCAAATCCTCGAATGTTCT  
+HWI-EAS443:3:89:1559:1132#0/1  
]\_\_Z\_\_`aaaV`^abb`bb``\_^bbab\_aa[\_`\_Ya``ZJ  
@HWI-EAS443:3:89:182:884#0/1  
AATTTCTAGCATGGTGGAGGCCATGGTGTCTAGGGCCCGG  
+HWI-EAS443:3:89:182:884#0/1  
`[\_`^a\_`\_`\_a`a`T¥`^`][`¥¥]^YZSXZ]¥R¥Z[WZY  
@HWI-EAS443:3:89:213:1104#0/1  
ATTTATATAGGACTTCTTTTGTCTCATGTTGATCCCCT  
+HWI-EAS443:3:89:213:1104#0/1  
a]aWbaa\_SR\_TUW]¥aX\_\_¥¥]JZT[\_^\_a^\_¥a^aX^\_  
@HWI-EAS443:3:89:218:861#0/1  
GGTCGCCAGACTTATGATTGGACATTAACAGAAATCAAC

+HWI-EAS443:3:89:218:861#0/1  
a]MTT]a[JXUa\_^\_a\_]a[aZ\_^\_[XU]`a\_]^^ZU[^X  
@HWI-EAS443:3:89:364:903#0/1  
TGGAATTTCTAGCATGGTGGAGGCCATGGTGTCTAGGGCC  
+HWI-EAS443:3:89:364:903#0/1  
aa\_]\_]a]a`aaaa^^]UXT^]\_]^¥\_YPVM^SQPUYZU  
@HWI-EAS443:3:89:379:1163#0/1  
GCTGCCGGTTGATTTCTGTTTAATGTCCAATCATAAGTCT  
+HWI-EAS443:3:89:379:1163#0/1  
`baabbaaYaa[Z`aaa`R\_aZ``aa`^]a`]S`Y`aU[a  
@HWI-EAS443:3:89:420:483#0/1  
ACCGGTTGGAATTTCTAGCATGGTGGAGGCCATGGTGTCT  
+HWI-EAS443:3:89:420:483#0/1  
aabbaabbbbaababaaa`a`aaa\_aa¥`X^Y[\_`VT¥^WW  
@HWI-EAS443:3:89:423:597#0/1  
GCCGGTTGATTTCTGTTTAATGTCCAATCATAAGTCTGGC  
+HWI-EAS443:3:89:423:597#0/1  
abbbbabbabbbbabababb``aabababaa^aaaa`  
@HWI-EAS443:3:89:465:829#0/1  
AACACTAAGTGAATGAAAATCAAAATCCTCGAATGTTCC  
+HWI-EAS443:3:89:465:829#0/1  
abaaaab^b¥aaa^ab`a^aaa`aaa```a`aa[a`^]a]  
@HWI-EAS443:3:89:484:203#0/1  
CTTTGTTGAAACTTTAGCTAGGAGCATTTCGCGAAAAGCTT  
+HWI-EAS443:3:89:484:203#0/1  
^b`X\_¥ab¥S`a¥aa\_abaa^V\_`^a`aaaaa^Q[`a¥¥]  
@HWI-EAS443:3:89:554:523#0/1  
GAAAAAGGAGAGTAAGAGACAACATGACCAAGAAGATGGT  
+HWI-EAS443:3:89:554:523#0/1  
a^)``]aa`a`a]aaaaaaaa`aa\_`a`\_R]\_]\_aa^\_]X  
@HWI-EAS443:3:89:598:551#0/1  
AATTTCTAGCATGGTGGAGGCCATGGTGTCTAGGGCCCGG  
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+HWI-EAS443:3:8:1073:95#0/1  
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+HWI-EAS443:3:8:1264:1833#0/1  
a`b\_b`b`ab[a`a`a`abaaa¥`aa``Y[`^`\_`]^`\_^  
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\_a^\_Xaa`aaaa\_`bZa`bbVba[^Y`Gb]a¥F\_]aa[a\_  
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a`a[aaa¥\_`a^^a\_]Xaaa[^S`\_W`]\_]\_]\_^\_^]a  
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+HWI-EAS443:3:8:508:1238#0/1  
a\_Y]¥`¥Z¥¥\_a^a\_a`a`^a\_aaQT]V`Y]\_¥``]\_^W  
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a`^\_`a\_]`]aZ^^\_`^^^Z^Z^^YWYX^ZZ]XZZXW  
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aaa`Y^aab\_`a`[Y^GUUYX\_\_X[^\_P^W¥X¥]Y\_\_¥  
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ZYa¥¥S\_\_b¥`]`a`\_a`^¥S`\_`¥\_aaab^]YYaaba`a  
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+HWI-EAS443:3:91:649:1043#0/1  
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+HWI-EAS443:3:92:613:231#0/1  
aa`Z]\_\_a\_¥\_^^`W^\_^^\_XY]\_^ZOW]\_^W^ZZZ^XY^  
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+HWI-EAS443:3:92:689:1814#0/1  
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+HWI-EAS443:3:93:250:905#0/1
¥_¥[[YaVZ¥Yaa]TVSV]`XZa¥PaY[_¥SLU]Y¥[¥]Y
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+HWI-EAS443:3:93:499:130#0/1
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GAGTTCTTCAATGGTGAACAGATCTTCATGATCTCAGAG
+HWI-EAS443:3:93:688:818#0/1
a`^¥a`b^aaaaa_a`a`_aa]____]\`_`aa]____^`
@HWI-EAS443:3:93:774:1093#0/1
GAGTTCTTCAATGGTGAACAGATCTTCATGATCTCAGAG
+HWI-EAS443:3:93:774:1093#0/1
aV_Wa`_`aaa`aa_a^`a[_`¥_a¥aaZaaa_a¥`_`____
@HWI-EAS443:3:93:83:1028#0/1
CAGCACTTCTGGTACATCTGTTTCATCCTCAAGAATTCCCC
+HWI-EAS443:3:93:83:1028#0/1
a`aa`_`aaab`a__a_^_a`a`aaYa`_`a`[^`^`_`_WUN_
@HWI-EAS443:3:93:840:865#0/1
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+HWI-EAS443:3:93:840:865#0/1
a]aQ[WOWXZT[HSZSXT[¥Y`¥[¥STU¥V^UM[Y_RNWB
@HWI-EAS443:3:93:850:1448#0/1
GGGGAATTCTTGAGGATGAACAGATGTACCAGAAGTGCTG
+HWI-EAS443:3:93:850:1448#0/1
aaba^`aaaaaaa____aa`aa`a`_]\`_R^a¥^`Y_W_a
@HWI-EAS443:3:94:1054:1128#0/1
ATACTGGAGATCCTCCATACAGCCATGGAACAGGAACAGG
+HWI-EAS443:3:94:1054:1128#0/1
`_a_`aa`_`_]\`a`¥`_`Y____^^_]\`_aY^`_X^W^]U
@HWI-EAS443:3:94:1062:1650#0/1
CAACACTAAGTGAATGAAAATCAAATCCTCGAATGTTC
+HWI-EAS443:3:94:1062:1650#0/1
aaaaa_baabXaaaa`aaa_aaba`aa`a_aaa____a]¥S
@HWI-EAS443:3:94:1459:216#0/1
GTCCAGCCAAAAGCATGGAATATGATGCCGTTGCAACTAC
+HWI-EAS443:3:94:1459:216#0/1
a^a^U`_____]\`^`_`^`a^a`_`^^VX_X^_UY]XX_X
@HWI-EAS443:3:94:1649:547#0/1
GGAATTTCTAGCATGGTGGAGCCATGGTGTCTAGGGCCC
+HWI-EAS443:3:94:1649:547#0/1
`abaabaabba_ba_aUab]^aba`_aZ`aaV_aa^a^V^
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CAGACTTATGATTGGACATTAACAGAAATCAACCGGCAG

+HWI-EAS443:3:94:214:900#0/1
a`abbab]ab`baaa`aa``aaa`_`aYaa`aa_____`
@HWI-EAS443:3:94:275:479#0/1
CTTTCACAATCACTGGGACAACACTAAGTGAATGAAAA
+HWI-EAS443:3:94:275:479#0/1
^[_`_aZ`RX`aaaa_¥[¥Y```a^^_a`Va_U[`a_`^_
@HWI-EAS443:3:94:350:823#0/1
CTGCCGGTTGATTTCTGTTTAATGTCCAATCATAAGTCTG
+HWI-EAS443:3:94:350:823#0/1
ab`abba_aa`baa`aaaa`aa`^^a__aaaaaaa]¥aa
@HWI-EAS443:3:94:502:416#0/1
TACATCTGTTTCATCCTCAAGAATCCCCTTTGGCTTGTGT
+HWI-EAS443:3:94:502:416#0/1
_baa`_N¥_aaaa]]^^^]OZX¥^[Z__`[V¥RYa__Q_^
@HWI-EAS443:3:94:507:971#0/1
GGAGGATCTCCAGTATAAGGGAATGTGGTGCTTATGGCAT
+HWI-EAS443:3:94:507:971#0/1
_babaab``ab¥b`aaa[a`a__aaY`_^a^a__aa^¥¥_
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+HWI-EAS443:3:94:548:1876#0/1
`¥b`ZVVDTZ`_b[OW^]Xb_WYO_a`X[^a[LQ¥_PPOU
@HWI-EAS443:3:94:54:1321#0/1
GAAAAAGGAGAGTAAGAGACAACATGACCAAGAAGATGGT
+HWI-EAS443:3:94:54:1321#0/1
[aa¥YT__aX`aY^ab¥`^Zb^¥`_a]_V_a[a]Y_``RP
@HWI-EAS443:3:94:92:1355#0/1
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+HWI-EAS443:3:94:92:1355#0/1
a`_aa^aaaaaaaYaa`a`aa[`a`Z`])`_``a]__[]X`
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TTTCTAGCATGGTGGAGCCATGGTGTCTAGGGCCCGGAT
+HWI-EAS443:3:95:1036:113#0/1
aaa^a`_^_bbaYb]`aa[S[^]`U_¥¥^Y^^¥YTY[`¥U
@HWI-EAS443:3:95:1049:1832#0/1
CAAAATGCCATAAGCACCATTCCTTATACTGGAGATC
+HWI-EAS443:3:95:1049:1832#0/1
_V[`a^`ab^¥¥bba`a`¥`¥[_V^^a`a¥`a``abaT
@HWI-EAS443:3:95:1062:107#0/1
CTCGATACTGAATCTTGACAAAAGAAATACACCAAGACA
+HWI-EAS443:3:95:1062:107#0/1
_bbbbbb`bbabbabbbba¥ababbbababab_ababa_a
@HWI-EAS443:3:95:1099:1599#0/1
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+HWI-EAS443:3:95:1099:1599#0/1
_`a^¥^ba``bbbabbbbbb`ba[babbbbaabaabaabaa^
@HWI-EAS443:3:95:1153:622#0/1
GCAAAATGCCATAAGCACCATTCCTTATACTGGAGAT
+HWI-EAS443:3:95:1153:622#0/1
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@HWI-EAS443:3:95:121:1411#0/1
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+HWI-EAS443:3:95:121:1411#0/1
``_`_aaa`a^a_a`____a`aa_a`aaaa_`_`a`_aZV
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CCGGTTGATTTCTGTTTAATGTCCAATCATAAGTCTGGCG
+HWI-EAS443:3:95:1220:419#0/1
abbbZ_baZ`babaabbaaab_a_aababab_ba__aa¥a
@HWI-EAS443:3:95:1277:812#0/1
CAAAATGCCATAAGCACACATTCCCTTATACTGGAGATC
+HWI-EAS443:3:95:1277:812#0/1
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CACTTCTGGTACATCTGTTTCATCCTCAAGAATCCCCTTT
+HWI-EAS443:3:95:1359:1304#0/1
Wb`b¥b_bbb[ababbbbbbba_b`bbabbbbaYabba
@HWI-EAS443:3:95:1380:722#0/1
CAAAATGCCATAAGCACACATTCCCTTATACTGGAGATC
+HWI-EAS443:3:95:1380:722#0/1
ababbbbabbb`bbbbbbabba^bbbb`abbb^]^D
@HWI-EAS443:3:95:144:720#0/1
CAAAATGCCATAAGCACACATTCCCTTATACTGGAGATC
+HWI-EAS443:3:95:144:720#0/1
abbbbbbbbaababbbababbaabaaa`aab`aaa_a`_Z
@HWI-EAS443:3:95:227:56#0/1
GAAAAAGGAGAGTAAGAGACAACATGACCAAGAAGATGGT
+HWI-EAS443:3:95:227:56#0/1
a]X___a_^a]aU__a¥a^]_^]^[_XZU¥a^Z^ZX]YY
@HWI-EAS443:3:95:262:1351#0/1
AGAAAAAGGAGAGTAAGAGACAACATGACCAAGAAGATGG
+HWI-EAS443:3:95:262:1351#0/1
^__LWT^`b^ZY_N_`Z`bababaaa]a_a`]aaT¥aXZY
@HWI-EAS443:3:95:823:1700#0/1
TGATTTCTGTTTAATGTCCAATCATAAGTCTGGCGACCTT
+HWI-EAS443:3:95:823:1700#0/1
Xba^IO[XXT_R_`_ba¥^_ZZ^_¥_V_R¥]VW^]SNI[S
@HWI-EAS443:3:95:84:503#0/1
GTAGTTGCAACGGCATCATATTCCATGCTTTTGGCTGGAC
+HWI-EAS443:3:95:84:503#0/1
aIaaPaaa^aa_¥[_a_X`__a`¥^[_`¥^^X¥_^][]^U
@HWI-EAS443:3:95:893:175#0/1
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+HWI-EAS443:3:95:893:175#0/1
aabbbbaa^aaba][Yba`aaZ^`]a`M^^¥S_`a`QSU_]`
@HWI-EAS443:3:96:1267:1501#0/1
GAGTTCTTCAATGGTGAACAGATCTTCATGATCTCAGAG
+HWI-EAS443:3:96:1267:1501#0/1
aZ`^`aaa^__a]]X`a`a_aa_`_`UH`____][[]_`a
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+HWI-EAS443:3:96:1565:496#0/1
aMGOR)`XWa__[aX`KWXQ^SxLP`U^Z`HZMIO^_[^
@HWI-EAS443:3:96:1644:1094#0/1
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+HWI-EAS443:3:96:1644:1094#0/1
aa_bba^baaa`baaa[ab^^Vb`aaaa`aa`Ya^X¥`
@HWI-EAS443:3:96:297:261#0/1
CTTTGTTGAAACTTTAGCTAGGAGCATTTGCGAAAAGCTT
+HWI-EAS443:3:96:297:261#0/1
^abb¥ab`bababbbbababb`a`aaaaaaaa`aa__a
@HWI-EAS443:3:96:411:173#0/1
ATTTATATAGGACTTCTTTTTGCTCATGTTGATTCCCACT
+HWI-EAS443:3:96:411:173#0/1
a[XV_`^XX¥¥`V¥FVa_VZ`X`V]aaZ[^[_YKKKXN]
@HWI-EAS443:3:96:46:962#0/1
GTTCTGTTCCATGGCTGTATGGAGGATCTCCAGTATAAG
+HWI-EAS443:3:96:46:962#0/1
a^``_aaaa``aa_`YZNT_RY`UURUQVRSNSNQBB
@HWI-EAS443:3:96:597:762#0/1
ACCGTTGGAATTTCTAGCATGGTGGAGGCCATGGTGTCT
+HWI-EAS443:3:96:597:762#0/1
a[aba_aaa`aa]aa]``G`W`UY^ZW¥^¥WT]MWU
@HWI-EAS443:3:96:622:1544#0/1
CTGGGGACAACACTAAGTGAATGAAAATCAAAATCCTCG
+HWI-EAS443:3:96:622:1544#0/1
abbbabbbbbbbabbbb`baabbbabbbbabbbbbaaab
@HWI-EAS443:3:96:93:120#0/1
CTTATACTGGAGATCCTCCATACAGCCATGGAACAGGAAC
+HWI-EAS443:3:96:93:120#0/1
abbbbaabaab^_]U_aa```^^SV[][[SUTRPQV¥]
@HWI-EAS443:3:96:968:1820#0/1
GAAAAAGGAGAGTAAGAGACAACATGACCAAGAAGATGGT
+HWI-EAS443:3:96:968:1820#0/1
`_aa`a`]]^^P`_a`XXa`_¥^^^_^[_ZO_]¥_^W
@HWI-EAS443:3:96:992:1584#0/1
CAGCGAAAATGCCATAAGCACCATTCCTTATACTGG
+HWI-EAS443:3:96:992:1584#0/1
`ab]aaVIabZabbbb`[Xa`a`T¥`[Y`a[baba`¥
@HWI-EAS443:3:97:1005:531#0/1
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+HWI-EAS443:3:97:1005:531#0/1
a`WX`aaW^`[PZaQ¥_U_] [X`V`V¥WQLQVITXU]XX`
@HWI-EAS443:3:97:1166:1545#0/1
GCGAAAATGCCATAAGCACCATTCCTTATACTGGAG
+HWI-EAS443:3:97:1166:1545#0/1
¥S_Kbab[bbZ[`b[ab__b[a_baaaVaa^baaba`baa
@HWI-EAS443:3:97:1419:1071#0/1
GAGTTCTTCAATGGTGAACAGATCTTCATGATCTCAGAG
+HWI-EAS443:3:97:1419:1071#0/1
a_a^]ab`aaabbaZa`aa__`a`¥aaVaa``a_Yaa^__

@HWI-EAS443:3:97:151:196#0/1
GAGTTCTTCAATGGTGAACAGATCTTCATGATCTCAGAG
+HWI-EAS443:3:97:151:196#0/1
_XZQU[]UUP¥aKS_QVOSOUN^_T_]RVaT[[YZ]`_`Y
@HWI-EAS443:3:97:1626:1001#0/1
ACCACATTCCCTTATACTGGAGATCCTCCATACAGCCATG
+HWI-EAS443:3:97:1626:1001#0/1
aaQ_Ia[a¥HNbbaTa`Y]^`^]__YVa[Oaa^G_SVV`BB
@HWI-EAS443:3:97:1643:122#0/1
GTCTTATTTATATAGGACTTCTTTTTGCTCATGTTGATTC
+HWI-EAS443:3:97:1643:122#0/1
a_Y`a]aaa_]``_a]]Y^`S^a_____U]W^__Y]]S^[S
@HWI-EAS443:3:97:1759:1501#0/1
GAAAATCAAAATCCTCGAATGTTCTGCGATGATTACAT
+HWI-EAS443:3:97:1759:1501#0/1
aaaaaaaa]¥aaa__N_`aa_`^PX[M[abaT[SX`SR][
@HWI-EAS443:3:97:357:1994#0/1
CGCCAGACTTATGATTGGACATTAACAGAAATCAACCGG
+HWI-EAS443:3:97:357:1994#0/1
XT^bbab`^`abbaSab`]¥^_b[aZabaa[_a`aWGX]
@HWI-EAS443:3:97:423:1851#0/1
GTCTTGGTGTATTTCTTTTGTCCAAGATTGATCGAGA
+HWI-EAS443:3:97:423:1851#0/1
`R``^_V`_¥¥`[^`a_`N¥N[_`_¥N¥^Z]YT[Y_`
@HWI-EAS443:3:97:529:74#0/1
GCCGGTTGATTTCTGTTTAATGTCCAATCATAAGTCTGGC
+HWI-EAS443:3:97:529:74#0/1
aa^bb`ab`aba_abaaaaab_^]`_aV`a``_^^a`_W
@HWI-EAS443:3:97:569:1783#0/1
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+HWI-EAS443:3:97:569:1783#0/1
^`aaaaaa`Yaaa`¥``_¥^`__Z_¥M`W^U^^¥]¥WU_¥
@HWI-EAS443:3:97:663:941#0/1
TTGGAATTTCTAGCATGGTGGAGGCCATGGTGTCTAGGGC
+HWI-EAS443:3:97:663:941#0/1
a^aaaa``[S_]_Z][E]a[^VVP[J][YMKYYQQ^YU
@HWI-EAS443:3:97:686:209#0/1
TCCAGCGAAAATGCCATAAGCACCATTCCTTATACT
+HWI-EAS443:3:97:686:209#0/1
U^a_`Za`RPN]S_]RJ[`¥XU^V[[Uaa`TVUa[]`¥TW
@HWI-EAS443:3:97:846:205#0/1
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+HWI-EAS443:3:97:846:205#0/1
aba`bbbbaba`a^b]aabaZaa`a[b`ab`Q[a`baaSX
@HWI-EAS443:3:98:1096:1328#0/1
CTTTGTTGAAACTTTAGCTAGGAGCATTGCGAAAAGCTT
+HWI-EAS443:3:98:1096:1328#0/1
aaba`_aaab`_b]]^^]]`____a``aab`aa_a__^_]`^
@HWI-EAS443:3:98:1169:85#0/1
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+HWI-EAS443:3:98:1169:85#0/1
Yabbab^babaTU`a]b`bbb_0[]aab_ab^bb^GX¥M]
@HWI-EAS443:3:98:1202:1219#0/1
CAGACTGTTCAAGCTTTTCGCAAATGCTCCTAGCTAAAGT
+HWI-EAS443:3:98:1202:1219#0/1
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@HWI-EAS443:3:98:124:1015#0/1
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+HWI-EAS443:3:98:124:1015#0/1
ababbbababa`abaaaaabaaaX_b[_aaaa_aaaaYa
@HWI-EAS443:3:98:1370:1277#0/1
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+HWI-EAS443:3:98:1370:1277#0/1
X`_bZ[SNaUMab__¥` `bTVaaV`VN_Y_bbbabb^_a^
@HWI-EAS443:3:98:1698:255#0/1
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+HWI-EAS443:3:98:1698:255#0/1
`babbbbaYWbbb`YZ]Z`¥b^`WaIaaTaa]_a_]_`__
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ATGAAAATCAAATCCTCGAATGTTCTGCGATGATTAC
+HWI-EAS443:3:98:1722:1164#0/1
U`_J¥aX`T`ab_ZRQ_XJ[^_XZ`WL]a]G^Z]UMIaTN
@HWI-EAS443:3:98:335:651#0/1
AATTTCTAGCATGGTGGAGGCCATGGTGTCTAGGGCCCGG
+HWI-EAS443:3:98:335:651#0/1
aTaa`a__a^a` `Xa_[¥S] [_YY]HZPZHUUSX¥W¥]V
@HWI-EAS443:3:98:353:878#0/1
CACTTCTGGTACATCTGTTTCATCCTCAAGAATCCCCCTT
+HWI-EAS443:3:98:353:878#0/1
abbbbbbbbbbbbbbbbbbbabbaabbbbbbbbbbbba`bba
@HWI-EAS443:3:98:380:182#0/1
GAACATTCGAGGATTTTGATTTTCATTCCACTTAGTGTTG
+HWI-EAS443:3:98:380:182#0/1
aaa`aaa`b`aa_aaaaa` `a`a^` ` `]^Za_]_S_X]_
@HWI-EAS443:3:98:451:677#0/1
GTTCTGTTCCATGGCTGTATGGAGGATCTCCAGTATAAG
+HWI-EAS443:3:98:451:677#0/1
` `aaaa`Xa_a_a`a_a`PRZXYJ¥YPMOVJWT¥PTZTSZ
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+HWI-EAS443:3:98:613:1843#0/1
aa_aabaabab`ababbab`bbaaa^aaa_b`bbab_aa_
@HWI-EAS443:3:98:689:191#0/1
CAGTGATAAAGAACAACATGATAAACAATGACCTTGGACC
+HWI-EAS443:3:98:689:191#0/1
¥` `T`^abbbb`bba_]aba`b` `aaaaab_XZ_`a¥a^_
@HWI-EAS443:3:98:71:75#0/1
ATTTCTAGCATGGTGGAGGCCATGGTGTCTAGGGCCCGGA
+HWI-EAS443:3:98:71:75#0/1
TbbUbaZbbaa`aSa^aa` `a]V`YVYYSUP_P`SU¥Z]T

@HWI-EAS443:3:98:757:83#0/1
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+HWI-EAS443:3:98:757:83#0/1
aaaa^baaaZD]`_aa¥a`_`a_YUaa¥P]aW_T¥ZR[W
@HWI-EAS443:3:98:81:1082#0/1
CTCGATACTGAATCTTGGACAAAAGAAATACACCAAGACA
+HWI-EAS443:3:98:81:1082#0/1
a^]a¥^¥a^aSM^aaaa_WW`__`a`^¥[`a`]_^X_
@HWI-EAS443:3:98:915:1626#0/1
TCCAGCGCAAATGCCATAAGCACCATTCCTTATACT
+HWI-EAS443:3:98:915:1626#0/1
aaaabaa]a_a]ab]X_baa[`b]TZ_`a`]_Va`b_a`
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+HWI-EAS443:3:99:1008:223#0/1
aab`baa_ab__`aa_aa`Y`a`^`T`^`T`^`¥_¥^¥
@HWI-EAS443:3:99:1011:1216#0/1
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+HWI-EAS443:3:99:1011:1216#0/1
a`aaaaabbbababbbbaaaabbaa_bba_^a_a`]^`_
@HWI-EAS443:3:99:1200:1925#0/1
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+HWI-EAS443:3:99:1200:1925#0/1
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@HWI-EAS443:3:99:146:219#0/1
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+HWI-EAS443:3:99:146:219#0/1
abaaaa`^a_aaaaU`_¥_¥¥¥^W__U^WWU¥¥WUTPU
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+HWI-EAS443:3:99:1489:1826#0/1
`bbabaabbbbbbb`baabbb`abbb`bbbaabba]a
@HWI-EAS443:3:99:1497:1195#0/1
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+HWI-EAS443:3:99:1497:1195#0/1
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+HWI-EAS443:3:99:245:258#0/1
]b`abbbba`aa[Vabaaaaab`aa`aabaa_RWbaaa^_^
@HWI-EAS443:3:99:319:1955#0/1
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+HWI-EAS443:3:99:319:1955#0/1
`a`^U¥a`^Y]^`KY¥`^`ab¥¥`^`baX¥aUa`S[aa[a
@HWI-EAS443:3:99:352:1400#0/1
CTGGAGATCCTCCATACAGCCATGGAACAGGAACAGGATA
+HWI-EAS443:3:99:352:1400#0/1
U_b[[_YWa]a]^aX`K[_bb`bba[XV^^a`^`bbaaV`
@HWI-EAS443:3:99:50:1002#0/1
GTCATTGTTTATCATGTTGTTCTTTATCACTGTTACTCCA

+HWI-EAS443:3:99:50:1002#0/1
a`abaa__aY`_^a`a`_]_a_____````^[\`-]_`
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ATTCAAATGTCCCTGTCTTATTTATATAGGACTTCTTTTT
+HWI-EAS443:3:99:738:1466#0/1
abaa`]`aa_Z`^aa`^ba_aaaaaaa`a__a`^a`a`]
@HWI-EAS443:3:99:793:1413#0/1
GACCGTTGGAATTTCTAGCATGGTGGAGCCATGGTGTC
+HWI-EAS443:3:99:793:1413#0/1
a]bbbbbabbbbbbaabbababb`bbaa``a`aaU][a
@HWI-EAS443:3:99:800:1931#0/1
ACGGCATCATATCCATGCTTTTGGCTGGACCATGGGCTG
+HWI-EAS443:3:99:800:1931#0/1
ab``abaabbaab_ab`]aabaaa`^aY`_VP^_]S_WSZ
@HWI-EAS443:3:99:904:1484#0/1
GACAACACTAAGTGAATGAAAATCAAATCCTCGAATGT
+HWI-EAS443:3:99:904:1484#0/1
aaY¥aababbabababbabb``ab`b`bababa¥abb`
@HWI-EAS443:3:99:966:1618#0/1
CACAAATCCATAGCGATAAAAAAAGCTTGTGAATTCAAAT
+HWI-EAS443:3:99:966:1618#0/1
`baabbb_aab`babb`abababb`ba`aababb_b`ba
@HWI-EAS443:3:9:1044:1256#0/1
ATCCTGTTCCCTGTCCATGGCTGTATGGAGGATCTCCAGT
+HWI-EAS443:3:9:1044:1256#0/1
a`W`aa_aaSaa`aY`]`aa_bVV]U[]]`0]V_Y]Y]V
@HWI-EAS443:3:9:128:839#0/1
AGCCCATGGTCCAGCCAAAAGCATGGAATATGATGCCGTT
+HWI-EAS443:3:9:128:839#0/1
a_baaaaaa_aaaaaaa`]``_]`a`````_^_____`Y^
@HWI-EAS443:3:9:1290:1110#0/1
GAAAATCAAATCCTCGAATGTTCCCTGGCGATGATTACAT
+HWI-EAS443:3:9:1290:1110#0/1
`abbbabaabba`bbb`abbaa`_a`a_a]aW[aaP]aa
@HWI-EAS443:3:9:1328:1549#0/1
TTCAAATGTCCCTGTCTTATTTATATAGGACTTCTTTTTG
+HWI-EAS443:3:9:1328:1549#0/1
abaaa`a``TU`^_aa^a`^_a`_a`Q_^H]a__a`
@HWI-EAS443:3:9:1330:1125#0/1
GCCGGTTGATTTCTGTTAATGTCCAATCATAAGTCTGGC
+HWI-EAS443:3:9:1330:1125#0/1
aa__a¥aa^abaaa]abbaabb^¥_a_a^`aa`_Y`__U
@HWI-EAS443:3:9:1417:496#0/1
GTTCTTCAATGGTGAACAGATCTTCATGATCTCAGAGAA
+HWI-EAS443:3:9:1417:496#0/1
aUTJW^V¥U^_YPYVUQZQ]WZXRVKUR[XZNVPSRTYVV
@HWI-EAS443:3:9:1460:1251#0/1
TGGGAGTCTCGATACTGAATCTTGGACAAAAGAAATACAC
+HWI-EAS443:3:9:1460:1251#0/1
aa^__a¥R`Zb___¥`a`Y`[`[]`¥X^`[_a_Z__^Y^R

@HWI-EAS443:3:9:1498:179#0/1
GAGTTCTTCAATGGTGAACAGATCTTCATGATCTCAGAG
+HWI-EAS443:3:9:1498:179#0/1
^abWaab^aaaa`]Xa]_`[_] ^X_^[^_X^]Z]U]Z]S
@HWI-EAS443:3:9:1518:587#0/1
TGGAGATCCTCCATACAGCCATGGAACAGGAACAGGATAC
+HWI-EAS443:3:9:1518:587#0/1
QQWZ[aaS^bb]aabaab` `aaba___a][Ta_`_aV^__
@HWI-EAS443:3:9:194:410#0/1
CAAAATGCCATAAGCACCACATTCCCTTATACTGGAGATC
+HWI-EAS443:3:9:194:410#0/1
`bab^Wa^Y]aY[` _bYaaSa_a__^^_ `^a__Y_ `a`VU
@HWI-EAS443:3:9:230:655#0/1
AAAATGCCATAAGCACCACATTCCCTTATACTGGAGATCC
+HWI-EAS443:3:9:230:655#0/1
abaa^ `aaba_ `b`aaaaaaaa `aaaaa^^a]__^__W
@HWI-EAS443:3:9:242:1512#0/1
CAACGGCATCATATTCCATGCTTTTGGCTGGACCATGGGC
+HWI-EAS443:3:9:242:1512#0/1
a_b_a `a`a_aa^a^a¥__^____¥[_¥`_]XW_VZ¥T]¥
@HWI-EAS443:3:9:254:2025#0/1
TGAAAATCAAAATCCTCGAATGTTCTGGCGATGATTACA
+HWI-EAS443:3:9:254:2025#0/1
Yab_ `b¥baa `a_aa[baabbb] `a] `a][¥aa^_¥^ `UT
@HWI-EAS443:3:9:269:1687#0/1
ATTTATATAGGACTTCTTTTTGCTCATGTTGATTCCCACT
+HWI-EAS443:3:9:269:1687#0/1
`] ` `^aa_¥`aa `a `¥`a ` `^`__^^[` `YV[__^_
@HWI-EAS443:3:9:430:1122#0/1
ATTTATATAGGACTTCTTTTTGCTCATGTTGATTCCCACT
+HWI-EAS443:3:9:430:1122#0/1
abbbabaa_abaaa `ab_ba`aaaaaaaa] `aaaa `a] `aa
@HWI-EAS443:3:9:589:1854#0/1
GTTGCAACGGCATCATATTCCATGCTTTTGGCTGGACCAT
+HWI-EAS443:3:9:589:1854#0/1
a¥`aa ` `a `aaZa ` `a_a ` ` ` [aa____W] `¥UUS[Z
@HWI-EAS443:3:9:610:772#0/1
GCCATAAGCACCACATTCCCTTATACTGGAGATCCTCCAT
+HWI-EAS443:3:9:610:772#0/1
aa]T]aa_aa `aWSYa ` `_]S]_a_] `^] `Q[W]]TYW
@HWI-EAS443:3:9:617:818#0/1
CAAAATGCCATAAGCACCACATTCCCTTATACTGGAGATC
+HWI-EAS443:3:9:617:818#0/1
aba_aaa `aaaba]X_a `aaaaaXa] `abaa¥^a____ `]
@HWI-EAS443:3:9:658:378#0/1
ATTCGAGGATTTTGATTTTCATTCCCACTTAGTGTTGTCCC
+HWI-EAS443:3:9:658:378#0/1
aaaaa `aa_ `aaaa_aaaa ` ` `_]]] `a `_]a_] `^] ¥¥
@HWI-EAS443:3:9:73:909#0/1
ACCGGTTGGAATTTCTAGCATGGTGGAGGCCATGGTGTCT

+HWI-EAS443:3:9:73:909#0/1
aa`aa^`aaa`aa^]^^`¥`W¥TX_¥ZW¥U¥^WWUWW
@HWI-EAS443:3:9:847:1108#0/1
GTCCAGCCAAAAGCATGGAATATGATGCCGTTGCAACTAC
+HWI-EAS443:3:9:847:1108#0/1
^[[_a]aWY_Y]ZN¥¥`[S_[a]``__¥I^QV]_]ZP^^]
@HWI-EAS443:3:9:855:1968#0/1
AAGCACCACATTCCCTTATACTGGAGATCCTCCATACAGC
+HWI-EAS443:3:9:855:1968#0/1
ab_¥a[_b^b`^]AY]_a`b_¥`SY_X^VFV``a_a^a`N
@HWI-EAS443:3:12:104:1048#0/1
AAATTTTTCTTCAATTGTCTCTTCGCCTCTTTCGGACTGA
+HWI-EAS443:3:12:104:1048#0/1
^Tabbbbaaa`bba``aababa_a^a``aaa_``__a`_a
@HWI-EAS443:3:15:1537:1650#0/1
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+HWI-EAS443:3:15:1537:1650#0/1
_^bb`abb``bbaba[`b`aa``XK[aaaaY`a_V_a`_
@HWI-EAS443:3:21:844:1270#0/1
CAAATTTTTCTTCAATTGTCTCTTCGCCTCTTTCGGACTG
+HWI-EAS443:3:21:844:1270#0/1
aZT[WYa^VU`]PXZQQ_LSQU^[V[OU^W`QTEILRVXO
@HWI-EAS443:3:30:21:50#0/1
AAATTTTTCTTCAATTGTCTCTTCGCCTCTTTCGGACTGA
+HWI-EAS443:3:30:21:50#0/1
a[U_bba`a^abaaaa`abaaaa`][`a_aa]a_``aY
@HWI-EAS443:3:33:555:1767#0/1
AAATTTTTCTTCAATTGTCTCTTCGCCTCTTTCGGACTGA
+HWI-EAS443:3:33:555:1767#0/1
^^^aababa_a`S`a^``aaa`_a_a_]Z`^VFMS[][[`
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CAAATTTTTCTTCAATTGTCTCTTCGCCTCTTTCGGACTG
+HWI-EAS443:3:39:1389:1101#0/1
_Z¥^_bbaabb`b^_bab`_abaaa`¥aaaa`aba``_T
@HWI-EAS443:3:46:526:1595#0/1
CAAATTTTTCTTCAATTGTCTCTTCGCCTCTTTCGGACTG
+HWI-EAS443:3:46:526:1595#0/1
aababbbbabbbaaaaaa`baaaa¥aaaaaa`a_aVaa
@HWI-EAS443:3:47:366:1319#0/1
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+HWI-EAS443:3:47:366:1319#0/1
ababaabbbbaaabb``ab_aaaaY_aaaa`Ya__aaa
@HWI-EAS443:3:52:1477:1892#0/1
CGTCAGTCCGAAAGAGGCGAAGAGACAATTGAAGAAAAAT
+HWI-EAS443:3:52:1477:1892#0/1
aaaY``ba]]ba]bbbbbb^Xbaaaaab_aba[`b`aa
@HWI-EAS443:3:57:733:1062#0/1
CAAATTTTTCTTCAATTGTCTCTTCGCCTCTTTCGGACTG
+HWI-EAS443:3:57:733:1062#0/1
aaaaababaaaaaa^`a`aaaa``__aaa`__`__^``

@HWI-EAS443:3:58:40:1237#0/1
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+HWI-EAS443:3:58:40:1237#0/1
a`bba_bbaabaaaab`aaaaa`]`aa^aa_aa`X`a_`
@HWI-EAS443:3:65:346:977#0/1
TCAGTCCGAAAGAGGCGAAGAGACAATTGAAGAAAAATTT
+HWI-EAS443:3:65:346:977#0/1
ab_^]aaa`aa`]a^aa]`a[_Y][`a^_^]`__R]__
@HWI-EAS443:3:68:424:542#0/1
CAAATTTTTCTTCAATTGTCTCTTCGCCTCTTTCGGACTG
+HWI-EAS443:3:68:424:542#0/1
a¥¥¥`bbbbbbbababaaabababaabbaaaa`aaaa__a
@HWI-EAS443:3:69:131:634#0/1
ATTTTTCTTCAATTGTCTCTTCGCCTCTTTCGGACTGACG
+HWI-EAS443:3:69:131:634#0/1
aabab`b`_]T]a`a_a`aaaa]`````]^^`]¥```_`^
@HWI-EAS443:3:75:365:781#0/1
AAATTTTTCTTCAATTGTCTCTTCGCCTCTTTCGGACTGA
+HWI-EAS443:3:75:365:781#0/1
`a_aaaaaaaaaaba_`a0aaaa`]a`a`_`aa`__^^`
@HWI-EAS443:3:79:792:349#0/1
ATTTTTCTTCAATTGTCTCTTCGCCTCTTTCGGACTGACG
+HWI-EAS443:3:79:792:349#0/1
abbbabababa`aaa_aaa`a`a`aa`_`a^^`__`a
@HWI-EAS443:3:82:573:291#0/1
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+HWI-EAS443:3:82:573:291#0/1
a`b¥bbbbbbbbba`b`_bbaaaaa^aa`aaaa¥Q]a
@HWI-EAS443:3:83:1075:1388#0/1
AATTTTTCTTCAATTGTCTCTTCGCCTCTTTCGGACTGAC
+HWI-EAS443:3:83:1075:1388#0/1
^aUaY¥a^S_]aX^a¥ZR^[b¥I¥``]VXUZ¥KZW^`WRQ
@HWI-EAS443:3:87:62:1089#0/1
TTCGTCCGAAAGAGGCGAAGAGACAATTGAAGAAAA
+HWI-EAS443:3:87:62:1089#0/1
aaabZ]PUWZ]_]aa``````aXJ[_`_¥¥¥Z¥[Y]_¥P
@HWI-EAS443:3:88:1385:1184#0/1
CAAATTTTTCTTCAATTGTCTCTTCGCCTCTTTCGGACTG
+HWI-EAS443:3:88:1385:1184#0/1
aabU`bbbbbbb]babab`abaaaaa^_baaaa_aaa^aa
@HWI-EAS443:3:93:680:1164#0/1
TTCGTCCGAAAGAGGCGAAGAGACAATTGAAGAAAA
+HWI-EAS443:3:93:680:1164#0/1
aaaa[a`^¥aaa`aa`a`_`aaaa^__^_^`_]__^]__
@HWI-EAS443:3:26:1119:1472#0/1
ATAAATACTGCCTTGCTCAATGCATCCTGTGCAGCAATGG
+HWI-EAS443:3:26:1119:1472#0/1
W¥XbbZV[GS_XS¥¥^bY[]¥_XV[FF_JQZ¥]TWDZOF¥
@HWI-EAS443:3:12:1155:232#0/1
GTTCTTTCATTTTCCAATAGAACCAACAGTTCGGCATTGT

+HWI-EAS443:3:12:1155:232#0/1
a[¥[]____`aa`_`¥a_]`^_]¥JU_[X_[Y[YW¥]^]Y[
@HWI-EAS443:3:19:105:1171#0/1
CAATGCCGAAGTGTGGTTCTATTGGAAAATGAAAGAACT
+HWI-EAS443:3:19:105:1171#0/1
abbbbaaaababaaaaa_aaa¥`aaaa`a`aaa`^`_a^`
@HWI-EAS443:3:74:1442:368#0/1
GACCCATTAGAGCACATCCAGAACTGATTGACCCCAGGG
+HWI-EAS443:3:74:1442:368#0/1
a`0L^_AW^^YYS_U¥`X_]aa__^[a_^_]GVFQ`]a_X
@HWI-EAS443:3:94:1205:1287#0/1
CTCCCTGGGGCAATCAGTTTCTGGATGTGCGCTAATGGG
+HWI-EAS443:3:94:1205:1287#0/1
aZ]_]`ab`a_R^VRRP`0J]Ta``WaaG_KG[`X^¥OR_
@HWI-EAS443:3:77:197:249#0/1
ACCCATTAGAGCACATCCAGAACTGATTGCCCCCNGGGA
+HWI-EAS443:3:77:197:249#0/1
T^_U¥^aaa_]`a_b[[[Ya`¥¥Y00ZNFsV`SERDX¥YV
@HWI-EAS443:3:10:949:765#0/1
GACCCATTAGAGCACATCCAGAACTGATTGCCCCCAGGG
+HWI-EAS443:3:10:949:765#0/1
a[WZ_`__¥_]¥T^¥S¥¥^^W^Y¥WY¥¥¥W]UYYSQW^¥¥
@HWI-EAS443:3:13:1791:1702#0/1
CATTAGAGCACATCCAGAACTGATTGCCCCCAGGGAGAC
+HWI-EAS443:3:13:1791:1702#0/1
¥_a¥ZbaWYa_a^WGZbaa_R`aaZ[aR[]PTYOSa_`_]`
@HWI-EAS443:3:13:819:951#0/1
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+HWI-EAS443:3:13:819:951#0/1
a¥0[¥]`a`V^a]XZTPXX`__^XXTFQ`ZNQLS``Z^VB
@HWI-EAS443:3:18:612:768#0/1
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+HWI-EAS443:3:18:612:768#0/1
aabbbbabbbbaaab`aabbbbaaaaaa`aaa_``aa^_
@HWI-EAS443:3:20:414:846#0/1
GACCCATTAGAGCACATCCAGAACTGATTGCCCCCAGGG
+HWI-EAS443:3:20:414:846#0/1
aabaa^a_a`aabaaaaaaa_baaaaa¥`_a`__a_¥¥
@HWI-EAS443:3:21:560:1058#0/1
GACCCATTAGAGCACATCCAGAACTGATTGCCCCCAGGG
+HWI-EAS443:3:21:560:1058#0/1
a`aabbbbabababaa`ba`Zaaab`aaa]^`^aaa``
@HWI-EAS443:3:22:1235:1725#0/1
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+HWI-EAS443:3:22:1235:1725#0/1
aaaabaaaaaaa`a_`a`a_`__a`____Z[W^`[^_
@HWI-EAS443:3:27:53:515#0/1
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+HWI-EAS443:3:27:53:515#0/1
Ua_^[U]QNUH¥¥a^^V[_¥_aU¥a____¥`TQT[]^¥`^U

@HWI-EAS443:3:32:1044:1268#0/1
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+HWI-EAS443:3:32:1044:1268#0/1
a¥HNWYaS`_aa^]V[Y_V¥`^¥_¥RX[H¥¥SRTP¥WV^
@HWI-EAS443:3:33:444:323#0/1
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+HWI-EAS443:3:33:444:323#0/1
abbab`aaaaaaaaabaaaaaaaa`a`a`]^`^]`^`Y
@HWI-EAS443:3:34:121:471#0/1
CCCATTAGAGCACATCCAGAACTGATTGCCCCCAGGGAG
+HWI-EAS443:3:34:121:471#0/1
aaa`Z^a_`a¥`a_^_a`¥XZ_¥_^_¥^`[^¥_¥[[W¥¥
@HWI-EAS443:3:35:1301:577#0/1
CCCATTAGAGCACATCCAGAACTGATTGCCCCCAGGGAG
+HWI-EAS443:3:35:1301:577#0/1
`aUWaVTZ^^^]`^b``_^_X_XGP[YV`a^^^`UUOJJL
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+HWI-EAS443:3:35:21:173#0/1
a^aaW^`aa[`a`a^J` `[`___V[^`__[^`^Z^`^^^W
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+HWI-EAS443:3:37:352:975#0/1
aa___baabaaaab^_aa`aaba[aa__U¥^_a`a_[-`Y
@HWI-EAS443:3:44:275:1412#0/1
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+HWI-EAS443:3:44:275:1412#0/1
T_`baaab__^bX[Xbb`bba`bbbaabbbabaZabb`^`
@HWI-EAS443:3:46:1129:878#0/1
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+HWI-EAS443:3:46:1129:878#0/1
^FORHT`S_^_Q¥[^_VUN_YWT^Q_WXVa¥HPVS¥¥¥`W
@HWI-EAS443:3:51:833:1826#0/1
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+HWI-EAS443:3:51:833:1826#0/1
ab`abbba` `ab`aba`^aaaa_aa_`^`ba^aa` `Y
@HWI-EAS443:3:53:164:562#0/1
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+HWI-EAS443:3:53:164:562#0/1
ababb¥bbbbbbbaabb`aabaq]`abaaab` `aaaaaa
@HWI-EAS443:3:53:616:1553#0/1
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+HWI-EAS443:3:53:616:1553#0/1
`abbbbaaa`abb__aababaaabaabbaa¥aa^aaaa
@HWI-EAS443:3:56:984:824#0/1
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+HWI-EAS443:3:56:984:824#0/1
a`bbbbbababbbbaabbbbaaabababb`aaaab`a`a
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+HWI-EAS443:3:61:385:1378#0/1
a`bbbaaaaaaaaaab`ab_]UP_]^a`[¥^ZZ¥^^PUUU
@HWI-EAS443:3:66:266:788#0/1
CATTAGAGCACATCCAGAACTGATTGCCCCAGGGAGAC
+HWI-EAS443:3:66:266:788#0/1
abaabbbaba^`_aababa`_`a__`a__a```_aa¥_`^a
@HWI-EAS443:3:66:643:1448#0/1
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+HWI-EAS443:3:66:643:1448#0/1
abbbbabbba_bbbbbbbb_]baababbaaa[aabb^a_
@HWI-EAS443:3:70:298:1920#0/1
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+HWI-EAS443:3:70:298:1920#0/1
`b`]X_b^a`ab_baa_b`_a__a__WaWaa`_]W¥¥¥_S
@HWI-EAS443:3:72:243:2041#0/1
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+HWI-EAS443:3:72:243:2041#0/1
[T[QZHS]UPYa[¥U_USX]]a`a_LFYGV^U[ZURPQ`_
@HWI-EAS443:3:78:1495:50#0/1
ACCCATTAGAGCACATCCAGAACTGATTGCCCCAGGGGA
+HWI-EAS443:3:78:1495:50#0/1
a__U]`_a`¥`¥`¥¥]_^T^`¥¥YU[^¥`_^RYUZUW_W_W
@HWI-EAS443:3:89:618:2015#0/1
GACCCATTAGAGCACATCCAGAACTGATTGCCCCAGGG
+HWI-EAS443:3:89:618:2015#0/1
ab^bbb_b¥RXZ_^aababb`baaa]]aa_aaa^`]_U_^
@HWI-EAS443:3:92:112:844#0/1
GACCCATTAGAGCACATCCAGAACTGATTGCCCCAGGG
+HWI-EAS443:3:92:112:844#0/1
abbbb`_a`abaaaabaa`baaYa`aaaa`a`_Z`__`__
@HWI-EAS443:3:92:255:337#0/1
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+HWI-EAS443:3:92:255:337#0/1
a`b`a_X_a``aa_b`^`[Z]a_^_^_[¥__[^Z^____[_
@HWI-EAS443:3:95:1253:1606#0/1
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+HWI-EAS443:3:95:1253:1606#0/1
aXaHaaabaaX¥a`aX`_aUaaaQaab^aS`¥a¥`__[Z
@HWI-EAS443:3:21:1647:691#0/1
AAAGAATGTAACGGTAACACTCTGTTAACCTTCTAGAA
+HWI-EAS443:3:21:1647:691#0/1
aaaa_aaa¥bb]aa]`_`Y_]`___X_^_]T]XV[[¥¥[
@HWI-EAS443:3:47:94:500#0/1
TAGAAGGTTAACAGAGTGTGTTACCGTTACATTCTTTTCT
+HWI-EAS443:3:47:94:500#0/1
abbbbbaabbaa`bab¥b]aaab`ab`b`¥^ba`babaaa
@HWI-EAS443:3:68:1019:1477#0/1
GAAAAGAATGTAACGGTAACACTCTGTTAACCTTCTAG
+HWI-EAS443:3:68:1019:1477#0/1
^Za^`Z^XbbYbQSYa_a^`a_^¥a`^`_^abPFY¥]a__

@HWI-EAS443:3:40:1759:127#0/1
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+HWI-EAS443:3:40:1759:127#0/1
`abbbbabbbababbababaabYG^ab`aaaaab`a^
@HWI-EAS443:3:84:1491:239#0/1
TTCAAGCAGTAGTTGTAAGGCTTGCATAAATGTTATTTGT
+HWI-EAS443:3:84:1491:239#0/1
aaaa^T^`a]SXY_a^_]_^N_a`X`a_^`a___a`_`Y
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+HWI-EAS443:3:91:299:1640#0/1  
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+HWI-EAS443:3:93:1064:429#0/1  
a\_aa^`a\_a\_a]\_Y\_``[\_W`a``\_`¥Z]]V\_X^`[[]]\_`  
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+HWI-EAS443:3:99:1147:71#0/1  
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+HWI-EAS443:3:99:1191:590#0/1  
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+HWI-EAS443:3:55:928:1334#0/1  
\_b]babbbbaT` `X[a[VaaaT]a¥PR\_`^`N[\_\_\_]Z[^¥aY  
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+HWI-EAS443:3:17:1411:695#0/1  
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+HWI-EAS443:3:78:1418:1246#0/1  
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+HWI-EAS443:3:73:849:776#0/1  
aa])V\_WWZPV` `a` `¥]^ZRa^aa`aa]`a`a\_\_[a`a¥  
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+HWI-EAS443:3:79:1230:1305#0/1  
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+HWI-EAS443:3:19:1222:1664#0/1  
])\_aaa`Y`a\_a`^b\_a\_]`a`\_^^`a]`\_]\_[\_Z]\_XXZ  
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CAATGATATTTGCTGCAATGACGAGAGGATCACTTGAATC  
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+HWI-EAS443:3:77:116:1441#0/1  
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+HWI-EAS443:3:83:737:456#0/1  
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+HWI-EAS443:3:80:63:331#0/1  
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+HWI-EAS443:3:58:871:555#0/1  
aaaa`a`^aa\_N\_`]U]\_a\_¥Z`¥`aa\_aa\_`a[a\_\_a``  
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+HWI-EAS443:3:39:731:19#0/1  
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+HWI-EAS443:3:40:165:1087#0/1  
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+HWI-EAS443:3:77:463:907#0/1  
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+HWI-EAS443:3:45:1378:1539#0/1  
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+HWI-EAS443:3:62:596:1011#0/1  
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+HWI-EAS443:3:78:1005:157#0/1  
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+HWI-EAS443:3:78:1184:1340#0/1  
a`a¥Z\_\_aR[]U^V]¥QOV]^`[^\_T^V]\_¥UUGUWWBBB  
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+HWI-EAS443:3:19:1062:1168#0/1  
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U\_V\_`W¥S]¥Q[Z^\_\_M\_ZW¥J[N[\_]^a\_`^]Y[a^ZZb  
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a\_\_`aaX\_aa`bUaa`aa`a\_Ya\_Ua\_\_a^]YY\_V¥ZGZ^  
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+HWI-EAS443:3:29:1473:1159#0/1  
aaa¥DWabaaa]a`a`a`Z\_\_aa\_\_`\_\_`^`^`^`a\_\_X]^  
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aaaaaaaaa\_[DT[[]aaa`a`\_a\_]Y`Y]\_]\_W]]\_]\_]  
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a\_b\_bbaabZD^b`babbb\_aababbaJZZabbHab\_J¥a  
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+HWI-EAS443:3:61:80:151#0/1  
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a^baU`aba\_aa^\_ab\_\_ZV\_aWDYa\_`\_a^\_\_\_\_S\_W^^  
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+HWI-EAS443:3:55:771:1520#0/1  
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@HWI-EAS443:3:58:721:696#0/1  
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+HWI-EAS443:3:58:721:696#0/1  
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+HWI-EAS443:3:60:1598:1154#0/1  
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+HWI-EAS443:3:70:738:2047#0/1  
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+HWI-EAS443:3:73:552:1658#0/1  
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+HWI-EAS443:3:64:1298:1263#0/1  
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+HWI-EAS443:3:69:1482:1072#0/1  
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+HWI-EAS443:3:69:318:645#0/1  
a\_\_baab¥``aaa\_aaaa``aabb¥a`\_`\_a^W\_\_^\_¥^`



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+HWI-EAS443:3:77:1167:1098#0/1  
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+HWI-EAS443:3:85:379:1078#0/1  
`\_Y\_abba`\_]\_]Q^\_\_b`V`^\_b][aab`^UZ^^¥TY  
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+HWI-EAS443:3:10:437:2007#0/1  
\_`¥¥\_ba`a\_b\_TV^aX\_0[]`Z`b\_ZY]``]¥^a\_YWaU  
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+HWI-EAS443:3:11:1241:387#0/1  
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+HWI-EAS443:3:11:1278:723#0/1  
`XWta^a]\_a\_a]¥X^aaa]\_]¥\_\_Y\_a¥^^\_]P[U[a  
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abb`a`aa]a`\_]abaaaaa\_`\_`a`X\_]```\_aX^¥  
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+HWI-EAS443:3:11:735:1167#0/1  
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+HWI-EAS443:3:12:129:696#0/1  
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+HWI-EAS443:3:12:729:1255#0/1  
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+HWI-EAS443:3:14:1752:274#0/1  
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+HWI-EAS443:3:14:707:1689#0/1  
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+HWI-EAS443:3:17:328:1522#0/1  
aa]¥abY`\_[Ua\_b``aaaaQ\_aaS\_a\_]a\_]\_`X^Q  
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+HWI-EAS443:3:17:450:1692#0/1  
]a`¥a^`^a]a¥\_¥]a¥]a`a]aaaa¥R]b`VYaUXOQ]  
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+HWI-EAS443:3:18:825:1227#0/1  
`OZb^]X[\_]Y\_[a`a\_a\_a\_a`\_]\_`]¥a]\_`\_`\_]T¥¥  
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aaaaW]]]``\_]Z¥U\_aa¥^[^^`\_`\_U^\_\_`a`VU^^¥^W

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aabaaaa`a\_a`\_\_a^`[\_aa^Y\_\_\_^\_\_]`^`]]\_YV\_  
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+HWI-EAS443:3:22:138:1951#0/1  
a`\_\_[Za`^`^`¥YV\_V]Va[X\_]`XXY]^XX]]YWWY  
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+HWI-EAS443:3:22:1609:1042#0/1  
\_`\_ZQW`abZX\_VV[V\_¥NYS\_a^V]W[YW`^SMQX\_BBB  
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aa`]FY]^Y[^aaYP]M00a[`aaXL¥UTaOVZ^XZZVFU  
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+HWI-EAS443:3:23:758:1624#0/1  
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+HWI-EAS443:3:24:761:612#0/1  
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+HWI-EAS443:3:26:1441:1786#0/1  
a\_^b\_baaaa\_\_Ya`^`[Ra`U\_\_a`\_dWaa\_]U¥¥Y[  
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+HWI-EAS443:3:27:1347:1414#0/1  
aa`bbbb¥bb\_XUOUVYXba^`¥]]^`\_NNX`¥aU]Q  
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+HWI-EAS443:3:29:1291:276#0/1  
a`\_a\_a`^`aW]`\_ZS]]SZ]\_Z\_^V^^aa^[XX]V[[B  
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\_\_a`ba^W`^^\_¥¥]¥Y]\_\_a```[`ZVV]R]^¥` `^V^\_  
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+HWI-EAS443:3:29:782:1300#0/1  
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+HWI-EAS443:3:31:1593:1564#0/1  
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a`\_YSS\_Za^ZU]`abaa\_] [`]aa\_\_^`\_]\_^\_aaaX^¥  
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\_`\_`Z`a`aa`\_]a`X`^]]][^`a[[XR¥Z]¥¥Z[[  
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a`\_^aa\_a`\_]aZ¥ZW]]^^]a^Y]]^Y]^XX\_]^M`XX^  
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+HWI-EAS443:3:34:1029:1112#0/1  
a` `¥\_` `baXUXI\_\_^`^LN^¥UQ]\_]UT] `VZ]YIDO  
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U[Z¥Z^\_a`b]\_\_W\_\_`Zab```]^Ta^b[a^aZYV\_U\_B  
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+HWI-EAS443:3:36:47:886#0/1  
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¥\_\_\_VIQ\_[TO\_W`aZ`b[[QX^\_\_WY^T^^QX¥¥RWNYP  
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+HWI-EAS443:3:37:1581:665#0/1  
a¥S]`Z¥ZW^aaaaT]aa]^]aW]^]a]VGB^\_S^VQY`Y  
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+HWI-EAS443:3:37:655:893#0/1  
^`a]¥¥a`\_\_TV\_X¥T^`\_]\_]`Z`\_¥^]XR\_``]^T]¥  
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+HWI-EAS443:3:39:952:300#0/1  
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+HWI-EAS443:3:3:960:693#0/1  
aa]\_TR¥[`X`\_`aaZa¥¥0Xa\_]`\_^\_`N^a\_\_\_\_\_]]`V  
@HWI-EAS443:3:40:662:29#0/1  
AAGGGGACGTAGTGTGGTAATGAAACGAAAACGGGACTC  
+HWI-EAS443:3:40:662:29#0/1  
`Tb```\_\_\_\_`]Va[\_^\_b\_L^`]ZZ\_\_a\_V¥Z¥P[aZUX[X  
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+HWI-EAS443:3:45:53:1240#0/1  
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+HWI-EAS443:3:46:1274:367#0/1  
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+HWI-EAS443:3:46:627:651#0/1  
Uababaaaa\_```aaa\_]\_a]````aa\_¥`aaaa^QX[  
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+HWI-EAS443:3:47:172:1499#0/1  
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+HWI-EAS443:3:47:1789:1396#0/1  
R\_aZ\_¥a`b`¥]\_```baaa\_aa\_]b\_0\_aa]U¥X]`Z``  
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+HWI-EAS443:3:48:499:682#0/1  
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+HWI-EAS443:3:49:1243:330#0/1  
\_b¥aZaV^baTa¥`]WTbZ¥Z[aXaaa^`aa¥`aa[\_]^`  
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abba`bZbbbababba\_[bb\_bbbbaaab`\_aa\_`  
@HWI-EAS443:3:49:752:1411#0/1  
CACTAATTGATGGCCATCCGAATTCTTTTGGTCGCTGTCT  
+HWI-EAS443:3:49:752:1411#0/1  
`YRX`¥¥bbaWQYQ[bS]baQZaa¥TY[`aZQ[a^BBBBB  
@HWI-EAS443:3:4:634:962#0/1  
CACTAATTGATGGCCATCCGAATTCTTTTGGTCGCTGTCT  
+HWI-EAS443:3:4:634:962#0/1  
]b`\_bbb`^`ab^babb\_aba]a]Iaab`aa\_Ya]]a¥[\_  
@HWI-EAS443:3:4:765:232#0/1  
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+HWI-EAS443:3:4:765:232#0/1  
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@HWI-EAS443:3:51:21:463#0/1  
CACTAATTGATGGCCATCCGAATTCTTTTGGTCGCTGTCT  
+HWI-EAS443:3:51:21:463#0/1  
aaab^\_bab`aa[\_aa\_]aba`aaVaaaa]^`a\_a`TR^  
@HWI-EAS443:3:51:649:1985#0/1  
CTAATTGATGGCCATCCGAATTCTTTTGGTCGCTGTCTGG  
+HWI-EAS443:3:51:649:1985#0/1  
aa^baU``^a^`aa^\_`\_aab\_aaa^^\_[aaa]b[^aa

@HWI-EAS443:3:53:1146:1407#0/1  
TTCGACACTAATTGATGGCCATCCGAATTCTTTTGGTCGC  
+HWI-EAS443:3:53:1146:1407#0/1  
\_aY[`abaaY]aa`a`WJZ`][S^bbJXaab`\_Y^`XR[  
@HWI-EAS443:3:53:30:842#0/1  
CAAGGGGACGTAGTGTGGTAATGAAACGAAAACGGGACT  
+HWI-EAS443:3:53:30:842#0/1  
aV\_babb]`ba\_b\_b`ba`\_Saa]\_a^`^^^\_aZa]Z]]  
@HWI-EAS443:3:53:831:477#0/1  
ACTAATTGATGGCCATCCGAATTCTTTTGGTCGCTGTCTG  
+HWI-EAS443:3:53:831:477#0/1  
¥ZS¥\_aY[`aaYUGK\_\_\_Z¥]X[¥a[aa]WXYaYIX`UXU  
@HWI-EAS443:3:54:371:500#0/1  
CAAGGGGACGTAGTGTGGTAATGAAACGAAAACGGGACT  
+HWI-EAS443:3:54:371:500#0/1  
aZaaaaaaaa`a\_Y`abbaZ¥[\_\_\_]^`^]Z`[H^`YFRX  
@HWI-EAS443:3:54:937:1996#0/1  
CACTAATTGATGGCCATCCGAATTCTTTTGGTCGCTGTCT  
+HWI-EAS443:3:54:937:1996#0/1  
Wb\_\_bZb^)`aZYU\_a`]U¥¥`KZV`YKU]OF^`XadWa\_  
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CACTAATTGATGGCCATCCGAATTCTTTTGGTCGCTGTCT  
+HWI-EAS443:3:55:1058:179#0/1  
abaaabbabb`aaZ\_aa`aa]aaa`aaa`G¥^`a``aY]\_  
@HWI-EAS443:3:55:799:1471#0/1  
AAGGGGACGTAGTGTGGTAATGAAACGAAAACGGGACTC  
+HWI-EAS443:3:55:799:1471#0/1  
`¥]SQ\_a\_a\_a`[`a\_b`J[`V[V[V[^`\_`YR[\_\_\_RTVL  
@HWI-EAS443:3:57:200:831#0/1  
CACTAATTGATGGCCATCCGAATTCTTTTGGTCGCTGTCT  
+HWI-EAS443:3:57:200:831#0/1  
abaaaUabaa\_a^a\_`\_\_a`\_aa\_aaaaY`X\_]\_^\_]`^  
@HWI-EAS443:3:58:1491:1714#0/1  
CACTAATTGATGGCCATCCGAATTCTTTTGGTCGCTGTCT  
+HWI-EAS443:3:58:1491:1714#0/1  
[^QQ`]bbab`a¥\_W\_¥]a``ab\_N¥aab]\_\_\_```aaVL\_  
@HWI-EAS443:3:58:1658:701#0/1  
TTCGACACTAATTGATGGCCATCCGAATTCTTTTGGTCGC  
+HWI-EAS443:3:58:1658:701#0/1  
``aa[(``a`b`aa`a]\_`^Z\_\_aa^]Q`ab`^`W^``  
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CACTAATTGATGGCCATCCGAATTCTTTTGGTCGCTGTCT  
+HWI-EAS443:3:59:1348:1161#0/1  
Za`¥\_\_`a¥^ab\_H0abbab¥aaa\_\_`bbba[`V]]\_XU[  
@HWI-EAS443:3:59:173:251#0/1  
CGACACTAATTGATGGCCATCCGAATTCTTTTGGTCGCTG  
+HWI-EAS443:3:59:173:251#0/1  
abbababbbbbbbab`abbaaaaaa`aaaaaaV]\_]``  
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GTCCCCTTTTCGTTTCATTACCAACACTACGCCCCCTGT

+HWI-EAS443:3:59:946:450#0/1  
aKa¥W\_TRU\_¥bR\_aY]a]WZPUQ[N\_a¥adW[Z¥TPR[W  
@HWI-EAS443:3:5:1592:290#0/1  
CACTAATTGATGGCCATCCGAATTCTTTTGGTCGCTGTCT  
+HWI-EAS443:3:5:1592:290#0/1  
a`X`^ababb[bR\_U\_aa\_abH`aIbbbbbaabab]\_BB  
@HWI-EAS443:3:60:409:776#0/1  
ATTCGACACTAATTGATGGCCATCCGAATTCTTTTGGTCG  
+HWI-EAS443:3:60:409:776#0/1  
``^ [U[HZa¥`Y]\_TUYUa¥¥I¥\_X^]a`a[YS^[^W^  
@HWI-EAS443:3:62:793:1007#0/1  
CACTAATTGATGGCCATCCGAATTCTTTTGGTCGCTGTCT  
+HWI-EAS443:3:62:793:1007#0/1  
a`WRWZWUFZ`XTa\_¥]a\_¥Z[Ua\_`]`J`]U¥]Y`R^X  
@HWI-EAS443:3:62:869:1317#0/1  
ACTAATTGATGGCCATCCGAATTCTTTTGGTCGCTGTCTG  
+HWI-EAS443:3:62:869:1317#0/1  
aa`a]aaaa`\_\_`\_a\_ab\_Xaaa`]``aadU]`\_Z^U`Y]  
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CTAATTGATGGCCATCCGAATTCTTTTGGTCGCTGTCTGG  
+HWI-EAS443:3:63:1215:789#0/1  
ab[`aab]`ba```aaabaaaa]\_b`^[[^a\_aa[]a`a  
@HWI-EAS443:3:63:423:780#0/1  
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+HWI-EAS443:3:63:423:780#0/1  
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@HWI-EAS443:3:63:614:526#0/1  
CGACACTAATTGATGGCCATCCGAATTCTTTTGGTCGCTG  
+HWI-EAS443:3:63:614:526#0/1  
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+HWI-EAS443:3:64:1400:1144#0/1  
`bbaaa\_b`b`````]`aa\_Za`a^`\_\_a\_^^`\_`\_\_W\_a  
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+HWI-EAS443:3:64:366:702#0/1  
abaaaa`a`a`^`\_`a```\_\_U\_\_`\_`\_XY\_]\_]\_Z^^  
@HWI-EAS443:3:65:1346:1948#0/1  
GACACTAATTGATGGCCATCCGAATTCTTTTGGTCGCTGT  
+HWI-EAS443:3:65:1346:1948#0/1  
a¥YaXT`ZSLX\_a[TZ¥a¥RR^\_\_YMEX]PXXRLV[BBBB  
@HWI-EAS443:3:65:1585:24#0/1  
CGACACTAATTGATGGCCATCCGAATTCTTTTGGTCGCTG  
+HWI-EAS443:3:65:1585:24#0/1  
ababbbbbbbabbabaabba[abbabbabbabb]\_[b`Qa  
@HWI-EAS443:3:65:740:1297#0/1  
ATTCGACACTAATTGATGGCCATCCGAATTCTTTTGGTCG  
+HWI-EAS443:3:65:740:1297#0/1  
a\_`Y`````\_`a^V^^YPZa^`Z^\_ZY\_]^^^\_UZV^]



@HWI-EAS443:3:65:828:871#0/1  
AGCGACAAAAGAATTCCGATGGCCATCAATTAGTGTCGA  
+HWI-EAS443:3:65:828:871#0/1  
^ab]P^b^QS]¥¥\_Z]\_T` `` `[\_N¥Z]UHSSZHTZNWY\_  
@HWI-EAS443:3:66:57:856#0/1  
CACTAATTGATGGCCATCCGAATTCTTTTGGTCGCTGTCT  
+HWI-EAS443:3:66:57:856#0/1  
a\_abb]aaa`a`Waaa\_aaa¥L]````a`\_]a\_\_\_\_V\_]`  
@HWI-EAS443:3:68:792:1338#0/1  
ACTAATTGATGGCCATCCGAATTCTTTTGGTCGCTGTCTG  
+HWI-EAS443:3:68:792:1338#0/1  
aa`bba\_aaa`\_a\_a\_aa`a` `` `aa`\_\_\_\_]`¥[\_^Z]\_\_`  
@HWI-EAS443:3:6:1488:519#0/1  
ATTCGACACTAATTGATGGCCATCCGAATTCTTTTGGTCG  
+HWI-EAS443:3:6:1488:519#0/1  
abaaa`aaaa\_aaaaaa[XWaaP[ ` \_ [ ` ^ ` [aa`¥USU  
@HWI-EAS443:3:6:162:808#0/1  
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+HWI-EAS443:3:6:162:808#0/1  
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+HWI-EAS443:3:71:369:506#0/1  
ababa`a0^aaab]¥Zbaa`aaa[aaaa\_a`\_^`ZNX]ZV  
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TCGACACTAATTGATGGCCATCCGAATTCTTTTGGTCGCT  
+HWI-EAS443:3:72:806:55#0/1  
abbaaaa`a`a`\_\_a`\_]`\_Y\_` `\_\_V\_\_` `\_\_Y]`V\_  
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+HWI-EAS443:3:73:1165:262#0/1  
a`\_aaaa`aa` `` `^`\_[\_UN\_^]S¥\_`^aU¥^\_` `VWYX  
@HWI-EAS443:3:73:1384:770#0/1  
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+HWI-EAS443:3:73:1384:770#0/1  
ab\_aaaaaba\_\_` `aa`]a`aba\_aaaaa¥\_a\_\_a^X^  
@HWI-EAS443:3:73:261:141#0/1  
CTAATTGATGGCCATCCGAATTCTTTTGGTCGCTGTCTGG  
+HWI-EAS443:3:73:261:141#0/1  
a`V]aa^^`a][[\_Y]`a¥T`a]^^`\_ [ZWY][X`TTZTX  
@HWI-EAS443:3:73:383:1796#0/1  
ACTAATTGATGGCCATCCGAATTCTTTTGGTCGCTGTCTG  
+HWI-EAS443:3:73:383:1796#0/1  
aa`a^\_] [ ]S]T^W]X` `^Y^`¥a\_] ^]Z[V\_Z^SUTQVB  
@HWI-EAS443:3:74:1555:1886#0/1  
CACTAATTGATGGCCATCCGAATTCTTTTGGTCGCTGTCT  
+HWI-EAS443:3:74:1555:1886#0/1  
\_b]abb¥^X^` `^^Z`^^aaaa^^`aaaa\_WY]]a\_\_]]  
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+HWI-EAS443:3:74:198:223#0/1  
aaa)`aaa\_a`[a`a\_\_\_\_\_a\_a\_\_\_]^U`\_]\_]\_\_Y`YT]  
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+HWI-EAS443:3:75:1061:1392#0/1  
^]bbaaZZ`I]a¥b`ab`PX¥a]U¥b¥)`aa`\_a`^UDO  
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+HWI-EAS443:3:75:1521:333#0/1  
abbbbbbbbbbbbababbb`bbbaab¥bbbabTbaa^R`  
@HWI-EAS443:3:75:741:1404#0/1  
CACTAATTGATGGCCATCCGAATTCTTTTGGTCGCTGTCT  
+HWI-EAS443:3:75:741:1404#0/1  
a^b`a^a```a]Yaab¥aaa¥a\_]¥`\_¥[UT¥a`a^[UU[  
@HWI-EAS443:3:76:1459:1816#0/1  
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+HWI-EAS443:3:76:1459:1816#0/1  
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+HWI-EAS443:3:76:720:343#0/1  
`bab`ab\_a]`a`aa\_a`aa\_^\_\_a`a]````\_`\_SS`  
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+HWI-EAS443:3:78:1197:2031#0/1  
aa\_Y\_`abaaaa\_\_a^^`Ua\_a[]Y¥^¥^\_^\_a]\_Z^VVV  
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CGACACTAATTGATGGCCATCCGAATTCTTTTGGTCGCTG  
+HWI-EAS443:3:78:1248:1103#0/1  
``]``ab`aabb`aaa\_aa]`a\_\_`¥aaaaa\_\_^\_S`\_  
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+HWI-EAS443:3:78:662:296#0/1  
¥IWbb]abaaUZ`R¥[T`V^¥R[``][QaZ\_aa[TaVW`  
@HWI-EAS443:3:79:267:708#0/1  
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+HWI-EAS443:3:79:267:708#0/1  
aaa`WZ`JX[Xa\_¥TP\_Y[`W]]ZVW\_P\_] [\_XW]P[^SJ  
@HWI-EAS443:3:80:1358:440#0/1  
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@HWI-EAS443:3:80:696:860#0/1  
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+HWI-EAS443:3:80:696:860#0/1  
ababaaaaaaaa\_a\_baa`aa`a\_a`aa^a`\_a\_a`\_\_`  
@HWI-EAS443:3:81:427:1323#0/1  
CACTAATTGATGGCCATCCGAATTCTTTTGGTCGCTGTCT  
+HWI-EAS443:3:81:427:1323#0/1  
aaaabb`Y`a\_¥aababaa```]`aaa`aaY\_a\_\_\_\_^]`

@HWI-EAS443:3:81:609:1429#0/1  
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+HWI-EAS443:3:81:609:1429#0/1  
aaY`a]^`ab^[^`aaa]`a`\_`\_a\_]XY¥¥ZY]UTZW  
@HWI-EAS443:3:81:98:1462#0/1  
ACTAATTGATGGCCATCCGAATTCTTTTGGTCGCTGTCTG  
+HWI-EAS443:3:81:98:1462#0/1  
ab`]``aaaa\_aaa\_`aaRY\_¥`Z^a^\_[¥a^\_¥]ZRS\_  
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CACTAATTGATGGCCATCCGAATTCTTTTGGTCGCTGTCT  
+HWI-EAS443:3:82:1364:1687#0/1  
R]Y[bVWW]WSa¥[aSW[\_W[aVa[HX`bb^```bWPZa  
@HWI-EAS443:3:83:418:458#0/1  
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+HWI-EAS443:3:83:418:458#0/1  
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+HWI-EAS443:3:84:722:1412#0/1  
`[aab`W^\_]ZW\_WRU¥`a]\_XU\_^\_]a]\_Y]\_Z`aa^\_  
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+HWI-EAS443:3:84:756:1369#0/1  
Zabb`\_abbab`\_`¥`^`\_a^a]\_]a]]^`aa`\_Ua`  
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+HWI-EAS443:3:87:1049:505#0/1  
a`a`\_`¥\_]aa`aXW]aWSX`¥X[^YY¥a\_V\_`^`X¥^X]  
@HWI-EAS443:3:87:1516:1839#0/1  
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+HWI-EAS443:3:87:1516:1839#0/1  
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+HWI-EAS443:3:87:1721:185#0/1  
abZ^U¥a`a]RH]]^[¥[`]\_\_ZUFU[ZXYFLa^[QY]G[  
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+HWI-EAS443:3:87:952:1028#0/1  
\_W\_\_a\_]bb\_W]a\_\_T^UR^Za`W]a]ZWaXaa`a]aT\_^  
@HWI-EAS443:3:88:118:986#0/1  
CACTAATTGATGGCCATCCGAATTCTTTTGGTCGCTGTCT  
+HWI-EAS443:3:88:118:986#0/1  
a`^`^`aba\_a\_]babab\_a\_Ka````aaaa¥baa`b¥`¥  
@HWI-EAS443:3:88:382:1723#0/1  
CACTAATTGATGGCCATCCGAATTCTTTTGGTCGCTGTCT  
+HWI-EAS443:3:88:382:1723#0/1  
abaaabaaa`Yb\_[ba`[\_ab`a`Sbaaaaa0`aaabX]Y  
@HWI-EAS443:3:89:1319:960#0/1  
TCGACACTAATTGATGGCCATCCGAATTCTTTTGGTCGCT

+HWI-EAS443:3:89:1319:960#0/1  
a^a`\_aa`\_`\_^\_^\_^^\_a\_\_^X]X^^]\_\_^\_]KOR[^  
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CACTAATTGATGGCCATCCGAATTCTTTTGGTCGCTGTCT  
+HWI-EAS443:3:89:1513:1879#0/1  
W^Vbbaba`bb\_b\_`baVZYbbab^aaabbba^b[a`aTb  
@HWI-EAS443:3:89:425:657#0/1  
GACACTAATTGATGGCCATCCGAATTCTTTTGGTCGCTGT  
+HWI-EAS443:3:89:425:657#0/1  
a^bbab^bb`aaa^^aa]\_\_\_`U\_````a``[\_`^`\_\_`]  
@HWI-EAS443:3:89:557:1198#0/1  
CGACACTAATTGATGGCCATCCGAATTCTTTTGGTCGCTG  
+HWI-EAS443:3:89:557:1198#0/1  
\_a¥\_\_\_\_\_aX^P[¥`aaIIVW\_`^P¥V]abb\_a[[Z[a^0  
@HWI-EAS443:3:89:742:1183#0/1  
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+HWI-EAS443:3:89:742:1183#0/1  
VaaW¥Xa`^b^P\_Y\_VU`^a`aUWS¥U]¥]¥a`a`]^`^YP  
@HWI-EAS443:3:89:789:1690#0/1  
AAGGGGACGTAGTGTGGTAATGAAACGAAAACGGGACTC  
+HWI-EAS443:3:89:789:1690#0/1  
aaa]aaa\_``aa\_`a`aaU`\_aaaaa^a`]\_`\_`Y^TV[Y  
@HWI-EAS443:3:8:102:625#0/1  
ATTCGACACTAATTGATGGCCATCCGAATTCTTTTGGTCG  
+HWI-EAS443:3:8:102:625#0/1  
aaaaaaaba`\_a`\_`a`\_¥aaa`]\_\_`]^`\_`\_`\_`\_`]]]  
@HWI-EAS443:3:90:575:672#0/1  
CTAATTGATGGCCATCCGAATTCTTTTGGTCGCTGTCTGG  
+HWI-EAS443:3:90:575:672#0/1  
\_`^`\_X`\_`]^`\_Sa`^S`^a`[^`XT`XY^a\_Qa[^M^GZY[¥  
@HWI-EAS443:3:91:559:904#0/1  
CACTAATTGATGGCCATCCGAATTCTTTTGGTCGCTGTCT  
+HWI-EAS443:3:91:559:904#0/1  
`abbbba¥abb``bbbbbbbabbb`bbbaba`ababaab  
@HWI-EAS443:3:91:82:697#0/1  
CAAGGGGACGTAGTGTGGTAATGAAACGAAAACGGGACT  
+HWI-EAS443:3:91:82:697#0/1  
abbbbbbbaab`aabab^b]^Zaab¥`\_`a^\_a`X]]  
@HWI-EAS443:3:92:268:567#0/1  
CACTAATTGATGGCCATCCGAATTCTTTTGGTCGCTGTCT  
+HWI-EAS443:3:92:268:567#0/1  
abab\_`a[XX¥aaaaa]]ab]]^¥Z``aaaaV\_aX\_aVZ^  
@HWI-EAS443:3:92:403:971#0/1  
CACTAATTGATGGCCATCCGAATTCTTTTGGTCGCTGTCT  
+HWI-EAS443:3:92:403:971#0/1  
aaaYUa`\_`]\_\_aTa\_a\_a`a\_]a\_\_\_`a^]\_U^\_``[PZB  
@HWI-EAS443:3:92:413:1878#0/1  
GACACTAATTGATGGCCATCCGAATTCTTTTGGTCGCTGT  
+HWI-EAS443:3:92:413:1878#0/1  
aa`\_Y]^`\_a\_]]]TJX]XW`¥^V`\_`WGX¥¥`Z¥MOQNX\_B

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+HWI-EAS443:3:94:1228:331#0/1  
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+HWI-EAS443:3:94:1466:835#0/1  
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+HWI-EAS443:3:98:259:962#0/1  
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+HWI-EAS443:3:98:870:1288#0/1  
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+HWI-EAS443:3:99:115:569#0/1  
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+HWI-EAS443:3:99:1181:693#0/1  
`aaaa`\_a`\_`^¥Xaa^\_ZU¥aa\_aa^a`\_[X\_W\_^]S`a  
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T\_a``b[\_Z\_\_\_HYY\_bb\_¥¥T\_XT\_T^``ZGM\_WBBBBB  
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+HWI-EAS443:3:72:1077:293#0/1  
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+HWI-EAS443:3:77:190:1720#0/1  
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¥b`^[^b]\_bbaba\_]a`\_WZZ^¥]bbbaa\_\_RSbaab\_  
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+HWI-EAS443:3:14:1166:1747#0/1  
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+HWI-EAS443:3:16:1508:986#0/1  
a`aaaaaaaa`a^\_a\_a`\_\_\_a\_^\_aV`] ^Y]]X\_]`  
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¥U`YWISb¥[``Y¥aabU\_W\_aZV[aQRS[`aa^P`aa  
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+HWI-EAS443:3:18:864:1284#0/1  
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+HWI-EAS443:3:27:102:1582#0/1  
^RSa¥aa\_[]`¥¥]XY¥]S`\_S^¥¥[^\_T]^V[T][S^^PI  
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ZXH[``ab^Z¥`S¥[a`a``VT^Z^]ZV\_[\_PW`abaabT  
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+HWI-EAS443:3:34:105:1171#0/1  
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aba`\_aa`aaa`aa\_¥\_a``aaa\_\_Z\_\_Z\_^]U[\_\_\_]^`\_  
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a`a`a\_bbaab`^^]`a``XY`a^[`a`a\_^`\_PYaa]U  
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aa¥\_a\_aa`^b`\_`a`\_aa\_Z]``aY]\_X]```\_¥V\_¥]\_  
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+HWI-EAS443:3:51:862:143#0/1  
¥\_\_[\_L[``R]¥ZXa^\_¥a`aabaWa[a`¥b¥`\_aZ\_X¥U  
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+HWI-EAS443:3:58:1169:343#0/1  
a]^`\_bb`\_^`\_`\_a\_[VW^^YZTY\_LFJMHTS¥YVUBBB



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+HWI-EAS443:3:62:1063:1017#0/1  
¥S\_aaZabababaaabaaaaaaaa`a`aaYaZ`^^^\_[  
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+HWI-EAS443:3:64:1138:179#0/1  
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+HWI-EAS443:3:69:743:1498#0/1  
¥L[a`aa]^a^a]V`[S^[`a`\_`a^aYG]]]]^\_V\_\_\_\_]  
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+HWI-EAS443:3:72:195:248#0/1  
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+HWI-EAS443:3:76:1381:1818#0/1  
aa\_```ba`aaaaYaa¥aaaa`a\_``a`\_¥¥\_\_^`Y¥]\_^  
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@HWI-EAS443:3:77:504:1315#0/1  
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+HWI-EAS443:3:77:504:1315#0/1  
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^\_¥a^W\_S^`\_`¥^]N[^WQM[Ya`XN\_YW¥]ZVOXMXZV  
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+HWI-EAS443:3:82:1345:388#0/1  
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aa`^`^ab`\_`\_`a`a^a\_¥\_\_a^[]V[^^M¥W¥W[^`^Z  
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aXS]a]^]\_a\_\_[]JUX]^a\_UX`\_\_`Y`^X`\_¥U^\_\_

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aaaW\_aa\_\_\_\_\_]\`\_`\_^\_\_`[S[X\_]Z\_^¥U]Y[U^^^]  
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+HWI-EAS443:3:91:979:1366#0/1  
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+HWI-EAS443:3:93:739:1181#0/1  
aUaba\_aa\_]aa]]`a^a\_U^Uaa\_`V`\_^a`\_W\_¥\_¥\_\_  
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+HWI-EAS443:3:94:1088:161#0/1  
a]\`\_`\_^aaa`^`^^`\_]\`X\_]\_\_]\`W^YX^Y\_XYY^Y\_^  
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a`\_`\_`\_abaaaa`aa`aa`\_`\_`\_a[`] ^a\_\_[]]\`^[\_^\_  
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+HWI-EAS443:3:97:1199:304#0/1  
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+HWI-EAS443:3:97:1385:800#0/1  
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+HWI-EAS443:3:99:1031:479#0/1  
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+HWI-EAS443:3:99:542:780#0/1  
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+HWI-EAS443:3:82:512:902#0/1  
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¥T`aaa¥\_b\_`^`a^`bba^`^[]X¥[G\_PZ^^ROYS  
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+HWI-EAS443:3:16:145:1002#0/1  
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+HWI-EAS443:3:49:290:98#0/1  
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@HWI-EAS443:3:55:66:349#0/1  
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aba^a``Z¥^^\_[TW[aa`^```\_U]`[W]\_a`a\_¥]]  
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+HWI-EAS443:3:69:479:1075#0/1  
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+HWI-EAS443:3:81:492:1076#0/1  
T\_b\_]¥]\_\_\_\_\_[][\_X\_^\_ba¥a^aa`\_^Xa\_\_a`\_a  
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+HWI-EAS443:3:18:1276:1428#0/1  
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+HWI-EAS443:3:52:520:1562#0/1  
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+HWI-EAS443:3:79:1287:946#0/1  
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aa]```aaa^Ra\_\_a\_`^Y^\_\_Z^^V```]`¥VZ^\_]`^  
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+HWI-EAS443:3:60:764:985#0/1  
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+HWI-EAS443:3:11:840:584#0/1  
a`\_`a`\_`[baa^a[¥^\_\_^\_a`aW`\_`a]``\_]\_¥]^R  
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+HWI-EAS443:3:20:225:612#0/1  
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+HWI-EAS443:3:30:353:1860#0/1  
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+HWI-EAS443:3:45:1039:631#0/1  
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+HWI-EAS443:3:45:839:1568#0/1  
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^`aaaa]^bbb`a`aaa\_\_WY^\_ab`aa]aab]```a\_  
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+HWI-EAS443:3:55:1054:1370#0/1  
I\_¥PT\_\_\_QRY\_]\_T¥OZW\_R\_W\_L]TWONQZJ^\_RFZ  
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+HWI-EAS443:3:56:290:1280#0/1  
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+HWI-EAS443:3:56:417:904#0/1  
aaaaaa¥aa`````^`\_V```^a`[\_`¥`\_]`a  
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+HWI-EAS443:3:6:1311:163#0/1  
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+HWI-EAS443:3:78:228:1895#0/1  
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`\_\_PZbb¥L`a^`a]^¥aaaYaH\_aa\_X¥T^][`\_J\_`^  
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+HWI-EAS443:3:91:190:1573#0/1  
Q\_^a`bb\_b¥^abbab\_abbabb\_abb`bYbbab[a  
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+HWI-EAS443:3:100:1455:979#0/1  
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+HWI-EAS443:3:100:959:561#0/1  
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+HWI-EAS443:3:10:1090:1375#0/1  
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+HWI-EAS443:3:10:1289:142#0/1  
¥b\_]\_\_\_aa`abbbb`\_``abbbbabVaa¥\_aa``QP\_a\_  
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+HWI-EAS443:3:10:1594:165#0/1  
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+HWI-EAS443:3:10:96:100#0/1
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GCCTGATTAATGATCCCTGGGTTTTGCTTAATGCATCTTG
+HWI-EAS443:3:11:1703:603#0/1
a[Qaa`_a`_a]_WWY¥a]¥X¥)`X_] ^VUZ]ZWZ]^_
@HWI-EAS443:3:11:345:150#0/1
CCCTGGGTTTTGCTTAATGCATCTTGGTTCAACTCCTTCC
+HWI-EAS443:3:11:345:150#0/1
aa__aZWJXa`^Y^`_^YY]__SaZ`a¥`^`^)^_Y[[]]V
@HWI-EAS443:3:11:535:111#0/1
CCTGGGTTTTGCTTAATGCATCTTGGTTCAACTCCTTCC
+HWI-EAS443:3:11:535:111#0/1
`^a^`_V]^aaa_Y_SZa[_a]^`¥]YUZ_Z^YZZ]VWSW
@HWI-EAS443:3:12:1021:143#0/1
CCCTGGGTTTTGCTTAATGCATCTTGGTTCAACTCCTTCC
+HWI-EAS443:3:12:1021:143#0/1
W[``b`ZZ___aZ¥a^)`b[Vaa`[_`baa[T_TU`]^]Y¥
@HWI-EAS443:3:12:1133:244#0/1
GCCTGATTAATGATCCCTGGGTTTTGCTTAATGCATCTTG
+HWI-EAS443:3:12:1133:244#0/1
Y___abb`Z`b`b`^^VS_bba]bb_b`````bbbaaaabaa
@HWI-EAS443:3:12:1209:1225#0/1
CCTGGGTTTTGCTTAATGCATCTTGGTTCAACTCCTTCC
+HWI-EAS443:3:12:1209:1225#0/1
abbabbabbbbabbbbabbbbabbbbabbbbabbaabababaab
@HWI-EAS443:3:12:1386:878#0/1
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+HWI-EAS443:3:12:1386:878#0/1
``_bbb``bbbbbbbbbbbb`abbbabbSb]ab`^aaa`
@HWI-EAS443:3:12:1450:1125#0/1
GGAAGGAGTTGAACCAAGATGCATTAAGCAAACCCAGGG
+HWI-EAS443:3:12:1450:1125#0/1
a]aa`ZR`^aa__[L¥U]`a_R__a`__Z_]`]X[PW_X^
@HWI-EAS443:3:12:487:1371#0/1
CTGGGTTTTGCTTAATGCATCTTGGTTCAACTCCTTCC
+HWI-EAS443:3:12:487:1371#0/1
abZ¥WDU`_`aaa]a`^`a]a_aa```_IY¥¥ZV_a`_^
@HWI-EAS443:3:12:758:1278#0/1
ATCCCTGGGTTTTGCTTAATGCATCTTGGTTCAACTCCTT
+HWI-EAS443:3:12:758:1278#0/1
LRZa[a`abIa`b`b`bb`]ab`_`b[aaaa`_`_`aa`^]a`
@HWI-EAS443:3:12:892:1098#0/1
GCCTGATTAATGATCCCTGGGTTTTGCTTAATGCATCTTG
+HWI-EAS443:3:12:892:1098#0/1
aa`_a^a`[aaa__`__aaaa]``aaaa_aa____a`_^a
@HWI-EAS443:3:12:925:142#0/1
CTGGGTTTTGCTTAATGCATCTTGGTTCAACTCCTTCC
+HWI-EAS443:3:12:925:142#0/1
aaabb`aa`b_aa`a`a`aa_aaaaU`aa`_```[a_^V__

@HWI-EAS443:3:13:398:82#0/1
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+HWI-EAS443:3:13:398:82#0/1
abba`a]b^aaaabbaab^aa`_aaZ¥aa_a`aaaa____
@HWI-EAS443:3:13:533:1406#0/1
CTGGGTTTTGCTTAATGCATCTTGGTTCAACTCCTTCCCTC
+HWI-EAS443:3:13:533:1406#0/1
a`aaa[a]a^`aa`_`a`_`aa__^a]aa`_a____^`__
@HWI-EAS443:3:14:1131:659#0/1
CTGGGTTTTGCTTAATGCATCTTGGTTCAACTCCTTCCCTC
+HWI-EAS443:3:14:1131:659#0/1
abaab]a`aa_bbaa`aa`a_aaa]Za`a_^`__a[^`a^
@HWI-EAS443:3:14:1296:351#0/1
CTGGGTTTTGCTTAATGCATCTTGGTTCAACTCCTTCCCTC
+HWI-EAS443:3:14:1296:351#0/1
a`a¥aV`_`ba`^_aaaaa_a`_`V¥aZ]^^`[Z`[UZ^Z
@HWI-EAS443:3:14:1382:842#0/1
AAGGAGTTGAACCAAGATGCATTAAGCAAACCCAGGGAT
+HWI-EAS443:3:14:1382:842#0/1
Saa[Ja¥aba¥U`a^bbbb¥b`_`aaaVL^MJWa`_`a`]
@HWI-EAS443:3:14:1586:490#0/1
GGAAGGAGTTGAACCAAGATGCATTAAGCAAACCCAGGG
+HWI-EAS443:3:14:1586:490#0/1
a`aaba`aabaaa^]`_a_aa^_a_a_`_]`_]__WYP¥a]_
@HWI-EAS443:3:14:1620:1451#0/1
AACCAAGATGCATTAAGCAAACCCAGGGATCATTAAATCA
+HWI-EAS443:3:14:1620:1451#0/1
a`aa`aaa_bY`_`a^a_a_`a_YZ_^__^_U^¥^_Z_G_
@HWI-EAS443:3:14:1621:556#0/1
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+HWI-EAS443:3:14:1621:556#0/1
abbbbbZYT^`^^a]b_¥OU¥]YY`aTTLI`S_¥S^aMFP
@HWI-EAS443:3:14:188:73#0/1
CCCTGGGTTTTGCTTAATGCATCTTGGTTCAACTCCTTCC
+HWI-EAS443:3:14:188:73#0/1
a`_`_`¥Pbb`_`^aaaa_aa_^L^aa`Y____] [[XX¥[`¥
@HWI-EAS443:3:14:362:405#0/1
CCTGGGTTTTGCTTAATGCATCTTGGTTCAACTCCTTCCCT
+HWI-EAS443:3:14:362:405#0/1
ab`bbbJ¥U_[YaaVb[aV]`_`baYa^aaa_`¥Y^a¥[]S
@HWI-EAS443:3:14:500:430#0/1
TGAGGAAGGAGTTGAACCAAGATGCATTAAGCAAACCCA
+HWI-EAS443:3:14:500:430#0/1
]^PXa`X`_]`_U`_`_]NZTV]L]_¥T¥WLR`R[__RWZQW
@HWI-EAS443:3:14:608:1231#0/1
CCCTGGGTTTTGCTTAATGCATCTTGGTTCAACTCCTTCC
+HWI-EAS443:3:14:608:1231#0/1
ababbbbSaaaaaaaaaabaabaaaaa`a`a`_aa_a`^_
@HWI-EAS443:3:15:1000:419#0/1
AGGAGTTGAACCAAGATGCATTAAGCAAACCCAGGGATC

+HWI-EAS443:3:15:1000:419#0/1
`bbab_bba`K]bbbbabaaaaaab`babWq]baab` `^
@HWI-EAS443:3:15:1076:1916#0/1
GTTTTGCTTAATGCATCTTGGTTCAACTCCTTCACAC
+HWI-EAS443:3:15:1076:1916#0/1
a_aba` `aaaa`_a`_Zaaa___aaa^_]____]^^^`_a`
@HWI-EAS443:3:15:1218:1831#0/1
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+HWI-EAS443:3:15:1218:1831#0/1
N[aaa[^]a` `aa`aab`_Ub`bbab`a`b`b`bb_baba
@HWI-EAS443:3:15:1457:955#0/1
CTGGGTTTTGCTTAATGCATCTTGGTTCAACTCCTTCCTC
+HWI-EAS443:3:15:1457:955#0/1
Xa¥_YSb`U`^a`Z`¥aaba`]ba]I`a`^ab`_¥b^^`_`
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CCCTGGGTTTTGCTTAATGCATCTTGGTTCAACTCCTTCC
+HWI-EAS443:3:15:1570:959#0/1
^abaaaaW`a`aabbbb_babbabba¥aaaaaaaaaba]`
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AGGAGTTGAACCAAGATGCATTAAGCAAAACCCAGGGATC
+HWI-EAS443:3:15:1598:1557#0/1
S_[Ya` `` `b`Y]aaaVa`^ab_aa_¥`a`[R]_`a` `` `a
@HWI-EAS443:3:15:248:1205#0/1
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+HWI-EAS443:3:15:248:1205#0/1
YY_bYb¥`a_a[`^^`a¥^baab`_[W`Z]_ ^Y¥ba^¥X]
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+HWI-EAS443:3:15:662:1611#0/1
Z_bbbbaZZVX__a¥_Z¥¥W]_W`[a`Wbabb]` `^a`W`
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CCCTGGGTTTTGCTTAATGCATCTTGGTTCAACTCCTTCC
+HWI-EAS443:3:15:953:1139#0/1
Ybbaab_J_ba`aba[`aaabbab` `` ¥VZ`^^ab`]aZ[
@HWI-EAS443:3:15:991:1581#0/1
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+HWI-EAS443:3:15:991:1581#0/1
ab`ZWN`_a¥_a^` `[G^a`_] ^`_`^`^`_] [_^^[W^] ^
@HWI-EAS443:3:16:1278:1491#0/1
CCTGATTAATGATCCCTGGGTTTTGCTTAATGCATCTTGG
+HWI-EAS443:3:16:1278:1491#0/1
a_R]Ybbbaba_a` ¥Ybabb^b_a]X_a¥]_ZV_aa`aRW
@HWI-EAS443:3:16:133:770#0/1
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+HWI-EAS443:3:16:133:770#0/1
ababaababbababaabaababbab`abaaaa_a`ba`aa
@HWI-EAS443:3:16:1547:215#0/1
TGGGTTTTGCTTAATGCATCTTGGTTCAACTCCTTCCTCA
+HWI-EAS443:3:16:1547:215#0/1
X[]^Y`X¥]^ [^RMU_ ^a^[]]ZFY`_QJYOSBBBBBBB

@HWI-EAS443:3:16:1675:35#0/1
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+HWI-EAS443:3:16:1675:35#0/1
aaaPYJ¥`^]V^_a^[_`aa`_[a`_`_a`¥^^R`Za_^
@HWI-EAS443:3:16:221:1562#0/1
CTGGGTTTTGCTTAATGCATCTTGGTTCAACTCCTTCCTC
+HWI-EAS443:3:16:221:1562#0/1
`aaXbJ_baa_Vabba_ab_]`bZ]`_b``ababaab``
@HWI-EAS443:3:16:296:91#0/1
TTTGCTTAATGCATCTTGGTTCAACTCCTTCCTCACACAT
+HWI-EAS443:3:16:296:91#0/1
a`¥Z`a^__^V`_V`__`[^]_[S]R]W^U`Z^Z^ZZX]Z
@HWI-EAS443:3:16:353:604#0/1
CTGGGTTTTGCTTAATGCATCTTGGTTCAACTCCTTCCTC
+HWI-EAS443:3:16:353:604#0/1
a_aab]aaaaaa`a]`aa_a`aaa^^_a`____``_^_]`
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+HWI-EAS443:3:17:1570:1887#0/1
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+HWI-EAS443:3:17:1695:1059#0/1
aaabaaXaaa_XW_YU`_U_a^aa]_]^_a`X`¥Ra`]V_
@HWI-EAS443:3:17:192:1354#0/1
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+HWI-EAS443:3:17:192:1354#0/1
K_W¥¥^_``^`bbbb_abbaaX`bba`aaabb_b__`b
@HWI-EAS443:3:17:304:1478#0/1
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+HWI-EAS443:3:17:304:1478#0/1
`_]aaaaaaaa`aa_aaa`_^^`_S]`_a`^_]aa^a
@HWI-EAS443:3:17:757:1133#0/1
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+HWI-EAS443:3:17:757:1133#0/1
]XIW¥ba[Vb`_^YZ`[[`]]]ba[`]Xab¥VP`_``^`T
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+HWI-EAS443:3:18:1281:1250#0/1
a`aaab_U__`a[^aaaa`a¥a]aa`aVZW[UY^`_`_]Z
@HWI-EAS443:3:18:1497:1375#0/1
AGGAGTTGAACCAAGATGCATTAAGCAAAACCCAGGGATC
+HWI-EAS443:3:18:1497:1375#0/1
aaaab_ababa_b_```aaa`aa]`__a``Za]^`_^^^G
@HWI-EAS443:3:18:1534:1589#0/1
CCCTGGGTTTTGCTTAATGCATCTTGGTTCAACTCCTTCCTC
+HWI-EAS443:3:18:1534:1589#0/1
Za`aa]_X_Xaaaaaaaaab`abaaaaa[^W`a_a__`_]S
@HWI-EAS443:3:18:1558:1473#0/1
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+HWI-EAS443:3:18:1558:1473#0/1
]W_[__T`baa____`aV`baSab`a`_¥_¥_¥aWSXa
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+HWI-EAS443:3:18:1769:1311#0/1
aaaa_aa]a`a]`_^`_]_^`_^`_]¥_]¥Y^WYWX
@HWI-EAS443:3:18:416:491#0/1
GTGCCTGATTAATGATCCCTGGGTTTTGCTTAATGCATCT
+HWI-EAS443:3:18:416:491#0/1
a`ba`bbaaaa`aa`aaaaaaZaaa`a`a`__a`a`a
@HWI-EAS443:3:19:1408:509#0/1
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+HWI-EAS443:3:19:1408:509#0/1
a`^b_bba`[X^`QX]WW`b`¥EP_aWSOOBBBBBBBBB
@HWI-EAS443:3:19:1488:703#0/1
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+HWI-EAS443:3:19:1488:703#0/1
a`bbaUab`_X_^`b¥b]b]Z_bba`Y^bb__aabba`U
@HWI-EAS443:3:19:501:1905#0/1
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+HWI-EAS443:3:19:501:1905#0/1
`^`Y`aabaaaa`aaaaa`_^`_aa`_aa`__`_a
@HWI-EAS443:3:19:718:1536#0/1
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+HWI-EAS443:3:19:718:1536#0/1
Vb^HZ_a^aaa`bb`Y`bab]a^b_US^a]aa]b`]_a__
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+HWI-EAS443:3:1:1242:749#0/1
a]aaaa_W`aaaa_[abaaa_aaa`¥UZa`a`_`_aB
@HWI-EAS443:3:1:920:498#0/1
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+HWI-EAS443:3:1:920:498#0/1
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@HWI-EAS443:3:20:602:466#0/1
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+HWI-EAS443:3:20:602:466#0/1
aaaaWa__`Xa_a`_`_^`_`_^`_]_^`_X]X]XZ^X¥
@HWI-EAS443:3:20:690:1267#0/1
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+HWI-EAS443:3:20:690:1267#0/1
abbbba^^a`[a^_aY`^^`[^`_`^U`aa^`]X_SV¥V^
@HWI-EAS443:3:21:1014:118#0/1
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+HWI-EAS443:3:21:1014:118#0/1
^^TabX[aab_bb`TZbaV_R^¥W`^`U]aZ`a_a_[¥[O
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+HWI-EAS443:3:21:1295:712#0/1
abb`_`abbbbbbba`abbbbaaab`abbbabbabba

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+HWI-EAS443:3:21:82:1533#0/1
aa`aZZT_aa_]Y`Z[Z`^^aa^[XXY¥`a¥¥_T¥a`_
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+HWI-EAS443:3:22:1129:393#0/1
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+HWI-EAS443:3:22:120:117#0/1
aaaabaa[babaaaaa`_]_aa`a_[`_^`¥^_aYa^`_
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+HWI-EAS443:3:22:211:1501#0/1
abb`_Y¥_abZ¥aaabaaaba`baaa_a`baaaaa`aaa
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`a]a¥aGa]T`b]OY]]`_Xbb]T][X___a`b`^Wa_]`
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+HWI-EAS443:3:22:575:321#0/1
abaaa¥aa`aaaaaaaa`a]aaaa_____`_]^__`_]`Z
@HWI-EAS443:3:22:686:1281#0/1
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+HWI-EAS443:3:22:686:1281#0/1
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@HWI-EAS443:3:23:651:1562#0/1
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+HWI-EAS443:3:23:651:1562#0/1
abbbbaabbabbbbaabbaa`abbbbaabaaX]¥ab__a
@HWI-EAS443:3:23:681:92#0/1
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@HWI-EAS443:3:23:897:1642#0/1
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+HWI-EAS443:3:23:897:1642#0/1
]^¥¥aKTT`abba`VSZS^a]aa][Xbb`b^aab^a`
@HWI-EAS443:3:24:122:1083#0/1
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+HWI-EAS443:3:24:122:1083#0/1
abb`_`_ababaaabaaa`aaaaa_`aaaaaaa`a_`a
@HWI-EAS443:3:24:1398:1525#0/1
CTGGGTTTTGCTTAATGCATCTTGGTTCAACTCCTTCCTC
+HWI-EAS443:3:24:1398:1525#0/1
ab^[_aa^L^abbb`ababb`bbbaaabbaa]Y`a`a`
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+HWI-EAS443:3:24:1469:296#0/1
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+HWI-EAS443:3:24:490:1245#0/1
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@HWI-EAS443:3:25:1071:27#0/1
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+HWI-EAS443:3:25:1071:27#0/1
ababbba_]aaaa`baa]b`aaaaaaaa^` `a`_`_]__`^U
@HWI-EAS443:3:25:1456:704#0/1
CTGGGTTTTGCTTAATGCATCTTGGTTCAACTCCTTCCTC
+HWI-EAS443:3:25:1456:704#0/1
H_bababbbbbbbbbabbbbbbbbbababababababb
@HWI-EAS443:3:25:1510:172#0/1
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+HWI-EAS443:3:25:1510:172#0/1
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@HWI-EAS443:3:25:169:361#0/1
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+HWI-EAS443:3:25:169:361#0/1
abaab`aaabaaaa`aaa_aaaaaa`aaaa`a_a_`_`_^
@HWI-EAS443:3:25:520:1114#0/1
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+HWI-EAS443:3:25:520:1114#0/1
Vb^Y`a`VV_a^Wa` `a]^YZ^aa`a[` _aaaa[a____[
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+HWI-EAS443:3:25:898:746#0/1
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@HWI-EAS443:3:26:1274:894#0/1
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+HWI-EAS443:3:26:1274:894#0/1
`_0¥Za¥M¥aa¥S^baa¥aY¥^aaaa`__W_aa^aX`a_Z
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+HWI-EAS443:3:26:1382:1666#0/1
a_` `b^a]_ab`Y` `bbaaaa` [`aaa_`_aa_a]a_`]V
@HWI-EAS443:3:26:444:1779#0/1
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+HWI-EAS443:3:26:444:1779#0/1
Ob` `^aa^[T^` `aPXaaZIbaQ^a`Wa_a¥QY^`XaJW`
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+HWI-EAS443:3:26:513:59#0/1
aaaa____aabY`aaa__a__^a____^`_a]]^_X]_^Y^
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+HWI-EAS443:3:27:1253:1326#0/1
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+HWI-EAS443:3:27:1555:1881#0/1
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+HWI-EAS443:3:28:832:922#0/1
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+HWI-EAS443:3:29:147:1848#0/1
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+HWI-EAS443:3:29:499:744#0/1
_¥`aabbaab^b`_aa_]_a^____`aa`_[_V¥_```_]
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+HWI-EAS443:3:31:1144:162#0/1  
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+HWI-EAS443:3:31:636:1458#0/1  
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+HWI-EAS443:3:31:733:1851#0/1  
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+HWI-EAS443:3:32:400:273#0/1  
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+HWI-EAS443:3:33:830:1722#0/1  
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+HWI-EAS443:3:35:184:130#0/1  
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+HWI-EAS443:3:39:1416:217#0/1  
aa¥\_a\_V\_^\_\_^]a`^[Z```Za^`¥`]^ZMX\_a¥T^]Y  
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+HWI-EAS443:3:3:699:296#0/1  
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+HWI-EAS443:3:3:845:848#0/1  
aX`\_aab\_a`a\_^aY¥X\_\_`aa]^\_^\_`\_`\_]X`^]Z\_  
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+HWI-EAS443:3:40:1335:658#0/1  
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+HWI-EAS443:3:40:186:321#0/1  
aba`aaa^abaa`a`aa\_\_0^\_\_a`\_Z]W¥^\_\_]a\_Z^\_]`  
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+HWI-EAS443:3:40:26:1542#0/1  
aa^Z`^RY^]Z¥\_¥`\_`¥a\_]\_aa]VRT¥\_]\_]\_^aa^[\_`^  
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_aY_R]`^Y`ba]`a_W_ab^aaaa`_`Z]``]]_aa_¥¥
@HWI-EAS443:3:58:581:903#0/1
CTGGGTTTTGCTTAATGCATCTTGGTTCAACTCCTTCCTC
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@HWI-EAS443:3:59:115:559#0/1
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+HWI-EAS443:3:59:115:559#0/1
a]` `b]b]]]aaaTaaa`aT¥_aa_a^V[`X^¥]`XZ_]Y
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+HWI-EAS443:3:59:1340:1388#0/1
aabaabaa^baabaaabaaba]_aabbbba0a]¥SW__]
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+HWI-EAS443:3:59:1623:1158#0/1
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@HWI-EAS443:3:59:1693:871#0/1
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@HWI-EAS443:3:59:31:2033#0/1
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+HWI-EAS443:3:59:31:2033#0/1
a`SY¥]abbaaabbbabaaaabbaaabba`_a]`X^]`X
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+HWI-EAS443:3:59:348:853#0/1
`aab_[^aa^¥`aa`^a^aa[a_`_a¥[_a_¥`_`WXY]^
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+HWI-EAS443:3:59:541:904#0/1
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+HWI-EAS443:3:59:571:1592#0/1
`_a^]T_b_Y]``a_`a_]`aa`¥¥aaa`Ta]¥[T[XO
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+HWI-EAS443:3:59:76:782#0/1
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+HWI-EAS443:3:5:1719:964#0/1
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@HWI-EAS443:3:5:611:472#0/1
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+HWI-EAS443:3:5:611:472#0/1
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+HWI-EAS443:3:60:1102:1383#0/1
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+HWI-EAS443:3:60:1583:972#0/1
a_^aa`aaaa`a_`_`a^¥__a_]a_a__^¥^aX_]`
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+HWI-EAS443:3:60:477:1417#0/1
Y]]TTO_TYbbb¥¥¥__`¥X`^^`]aS]a]aa`]]]YP
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+HWI-EAS443:3:60:905:109#0/1
a`a_]_aaX_^aRaW^WWO___XTNX^__0_]`^ZUKK]U^
@HWI-EAS443:3:61:1525:1002#0/1
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+HWI-EAS443:3:61:220:899#0/1
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abbaaabbaab`]aabaaaab`aa`_`aa`^`a`^`aaa_a
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+HWI-EAS443:3:62:1688:977#0/1
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+HWI-EAS443:3:62:169:1902#0/1
a^U^]R^Saaa`aT^NQXa¥`^ISX_ba```aRa^Za``
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+HWI-EAS443:3:62:597:433#0/1
`a`aS_`a`_¥a]W]U^^^_aa]XY^aa`a```^[WUZ]`
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+HWI-EAS443:3:62:825:1599#0/1
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+HWI-EAS443:3:63:1087:1170#0/1
a_``ab`bbbaaaabbbababbbba`bbaaa`aabaaba
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+HWI-EAS443:3:63:1243:1570#0/1
aY_`_YWaJa¥G_bab¥T[UZaS]`Y^_]aa¥a_U^^^_
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+HWI-EAS443:3:63:1294:1507#0/1
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@HWI-EAS443:3:63:1347:299#0/1
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+HWI-EAS443:3:63:1347:299#0/1
aa_Xbaababbbaabaa_aaaa`aaaa_`aa`__a`]^
@HWI-EAS443:3:63:217:903#0/1
CCTGGGTTTTGCTTAATGCATCTTGGTTCAACTCCTTCCT
+HWI-EAS443:3:63:217:903#0/1
a__a``¥`a`a`____`a_``____]¥`^[Z^_``]YY^]
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+HWI-EAS443:3:63:308:1507#0/1
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+HWI-EAS443:3:63:541:1047#0/1
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+HWI-EAS443:3:64:1141:708#0/1
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+HWI-EAS443:3:64:1393:855#0/1
^UQaba¥ZYT^K¥`RI_ab`aTaba¥0_^M^0`a_[__H]

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+HWI-EAS443:3:64:1770:449#0/1
V_X__¥_aa¥_¥VY^¥¥VW]`a¥_^Z`X[_]Z^¥]V¥a_
@HWI-EAS443:3:64:1783:27#0/1
CCCTGGGTTTTGCTTAATGCATCTTGGTTCAACTCCTTCC
+HWI-EAS443:3:64:1783:27#0/1
`babbbb`bbba`abbbaaaaaaaaa^_`aaaa_aa`^¥_
@HWI-EAS443:3:64:540:442#0/1
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+HWI-EAS443:3:64:540:442#0/1
`I]aaba`aaaa`aaa`_`aaa_¥a`^`X`a_^a`a_a
@HWI-EAS443:3:64:567:322#0/1
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+HWI-EAS443:3:64:567:322#0/1
^Y^_aaWRVaaa`¥`a__`a`a^`Z¥____`¥Z^`__]]
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+HWI-EAS443:3:64:891:284#0/1
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+HWI-EAS443:3:64:966:226#0/1
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+HWI-EAS443:3:64:970:204#0/1
Z_a`a``bab]bababbaab`bba^ab`baaa^Uab^``X
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+HWI-EAS443:3:65:877:1906#0/1
Z__ZQX]N]QR_[R_Z]```[^¥UVR¥_]V¥`bZS]aUS
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+HWI-EAS443:3:66:1056:1219#0/1
¥_a¥]`X¥]a_Z`aaa^`]a^_TY__^]a^a^V_Y^T^a
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+HWI-EAS443:3:66:1284:609#0/1
aa`aaaa__`a_a__`a_aa]_aaa_a`__a]`]`__^
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+HWI-EAS443:3:66:1716:1975#0/1
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+HWI-EAS443:3:66:30:1267#0/1
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+HWI-EAS443:3:66:387:1489#0/1
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@HWI-EAS443:3:66:697:22#0/1
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+HWI-EAS443:3:66:697:22#0/1
a`bbb`bbbabb_[¥baaa[`aaa__aa`aa^`^XT^
@HWI-EAS443:3:66:712:1594#0/1
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+HWI-EAS443:3:66:712:1594#0/1
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+HWI-EAS443:3:66:795:53#0/1
a`aaa_Y[_a`a`]`Zaa``¥`a__]aa_`^__]_]_^_^
@HWI-EAS443:3:67:1021:559#0/1
CCTGGGTTTTGCTTAATGCATCTTGGTTCAACTCCTTCCT
+HWI-EAS443:3:67:1021:559#0/1
`_`b`a`]`aabaa`__Y^_]a^`aa`^a``a`a][][]_[]_
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+HWI-EAS443:3:67:1074:592#0/1
a_aaaaaaaaaa`^`^`aaa]`aa`_aaa_`___`]_
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+HWI-EAS443:3:67:1138:1622#0/1
aaa`W`__[aab`Y_aaa```aa_a```aa_a¥____]]_
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+HWI-EAS443:3:67:1287:1771#0/1
ab`^`Pa`ba_bbbb]a¥aba`_`_aaaa`a`Xaa`a^aa
@HWI-EAS443:3:67:1494:619#0/1
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+HWI-EAS443:3:67:1494:619#0/1
ab`a]Ybab]_bbab_bb```a`ba^Y`_`a]_Y]_`a_]_
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+HWI-EAS443:3:67:1626:1099#0/1
aZ`]R`^^^ZGUX`WY^X_aa_`_`¥^]RX¥_Y_^]TS_Y

@HWI-EAS443:3:67:1671:1867#0/1
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+HWI-EAS443:3:67:1671:1867#0/1
a]QMO_S_TSV` `[OVP]¥^U]ZTOTXXLM¥VZ^UU¥SV¥
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+HWI-EAS443:3:67:1722:1277#0/1
abbVbaZYb_[]V`]a]¥TZZa`a`WRaaY^aaaaaa¥a_
@HWI-EAS443:3:67:176:943#0/1
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+HWI-EAS443:3:67:176:943#0/1
aa_]`^aa`^^aaa^a`]¥_`^^`[]^^]_`_¥]a^`_^
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+HWI-EAS443:3:67:531:1763#0/1
[abY`bb`¥^V_`^_a__ZSVa[a¥LV]]baaa`^a]X
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+HWI-EAS443:3:67:912:1683#0/1
`YY^^`b`^¥]`aa]_a_Ya_bba`ab``]S[X__`__[]
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+HWI-EAS443:3:68:1125:713#0/1
ab^T^TX`ZW[V^aY¥N_]_LV[PXZX_WDKXLSXU[^[
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+HWI-EAS443:3:69:1138:1302#0/1
aa_OTDSST_Z]RSZP_UXS]WYY]_V_^T_a¥`MUWZ[a
@HWI-EAS443:3:69:1533:1729#0/1
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+HWI-EAS443:3:69:1533:1729#0/1
Y__[_bba__`aa`aa¥b``a__¥^^_]Z¥a```a^`^a
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+HWI-EAS443:3:69:1691:1410#0/1
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@HWI-EAS443:3:69:183:1626#0/1
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+HWI-EAS443:3:69:183:1626#0/1
aaa[`W`_`_a__Y_`^a`^_`_^OX^^a[^^^_]]_
@HWI-EAS443:3:69:379:237#0/1
TCCCTGGGTTTTGCTTAATGCATCTTGGTTCAACTCCTTC
+HWI-EAS443:3:69:379:237#0/1
aa^^]bab^`a``_aaYRQ`a¥a`a`a[^^__`_`_`^`]]
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+HWI-EAS443:3:69:66:77#0/1
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+HWI-EAS443:3:6:1571:1255#0/1
Ob[`[S[Z__^aba_^`b` `_[`bbUabZbabYJL_` [ab
@HWI-EAS443:3:6:465:928#0/1
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+HWI-EAS443:3:6:465:928#0/1
]b¥J_Y]_abbba_bba[aa]`a]bYYU¥aa^[aaaa`^_
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+HWI-EAS443:3:70:1127:1586#0/1
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+HWI-EAS443:3:70:177:1822#0/1
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+HWI-EAS443:3:70:209:1334#0/1
abaaa_a[`_a`a` `a_^_aa_a___Z^]a_a___a¥^]`
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+HWI-EAS443:3:70:457:255#0/1
aaaaa_aaa`aa`a` `aaY^Ua` ` `aaa` `a[^a___`
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+HWI-EAS443:3:70:490:108#0/1
aa`aba` [aaaaaaaaaaaa_XY` ____]_`^`_Y___]]Y
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+HWI-EAS443:3:70:881:518#0/1
abb`¥a`IZbUU¥baaa]` `b]^^` ` `]_baa`a`P[Ya
@HWI-EAS443:3:70:958:876#0/1
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+HWI-EAS443:3:70:958:876#0/1
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@HWI-EAS443:3:71:1100:1660#0/1
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+HWI-EAS443:3:71:1100:1660#0/1
aWT]aR^____^aaaWW¥_]aa` []X`¥baXa`¥` _` []¥
@HWI-EAS443:3:71:1561:697#0/1
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+HWI-EAS443:3:71:1561:697#0/1
aabbb_aababbabbbbaa`bb^babbaabbaaaa_ba¥]

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@HWI-EAS443:3:71:302:332#0/1
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+HWI-EAS443:3:71:302:332#0/1
aa¥Z][]`[_`¥```a[]_`^^¥[Y¥¥¥^^^¥¥^^ZZZ_
@HWI-EAS443:3:71:318:1051#0/1
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+HWI-EAS443:3:71:318:1051#0/1
aaZW_¥X_¥¥¥¥__Z_K_¥UZ_¥_W_TZS]_Za`_T¥[]`
@HWI-EAS443:3:72:1059:367#0/1
CCCTGGGTTTTGCTTAATGCATCTTGGTTCAACTCCTTCC
+HWI-EAS443:3:72:1059:367#0/1
abbbbbbb`bbbbbbbbbaabbbbbbaabbbbaaa^`aaa
@HWI-EAS443:3:72:1313:132#0/1
TGCATGTGTGAGGAAGGAGTTGAACCAAGATGCATTAAGC
+HWI-EAS443:3:72:1313:132#0/1
ababbbab`babbaabbabaaaaaWa`baab`abaa`a¥
@HWI-EAS443:3:72:1324:809#0/1
CCCTGGGTTTTGCTTAATGCATCTTGGTTCAACTCCTTCC
+HWI-EAS443:3:72:1324:809#0/1
[bbababTabb_`bbbb^a`abbbab¥aabbbbb]X``[^
@HWI-EAS443:3:72:225:616#0/1
CCTGGGTTTTGCTTAATGCATCTTGGTTCAACTCCTTCCT
+HWI-EAS443:3:72:225:616#0/1
a`abaa_aaaaabaaaaaa`aaa`a```aa`__```_a_^
@HWI-EAS443:3:73:114:237#0/1
GCTTAATGCATCTTGGTTCAACTCCTTCCTCACACATGCA
+HWI-EAS443:3:73:114:237#0/1
aaaaaa_a_a__aaa`_`__`^`]_``]`^`_`_`Z_^]W^
@HWI-EAS443:3:73:1252:236#0/1
CTGGGTTTTGCTTAATGCATCTTGGTTCAACTCCTTCCTC
+HWI-EAS443:3:73:1252:236#0/1
abbbbbbbbbbbbbbb`_bb`bbb`bbaab`bbabbaaaa
@HWI-EAS443:3:73:1355:1679#0/1
CTGGGTTTTGCTTAATGCATCTTGGTTCAACTCCTTCCTC
+HWI-EAS443:3:73:1355:1679#0/1
aabb_`S¥_[aU`aa¥b`a¥a`OOMS]R`aZ^VLa_^R_¥
@HWI-EAS443:3:73:216:531#0/1
CCTGGGTTTTGCTTAATGCATCTTGGTTCAACTCCTTCCT
+HWI-EAS443:3:73:216:531#0/1
abbbbb_abaaaaaa`aaaaaaab``a`aaaa`aaa```
@HWI-EAS443:3:73:409:492#0/1
CCTGGGTTTTGCTTAATGCATCTTGGTTCAACTCCTTCCT
+HWI-EAS443:3:73:409:492#0/1
abb`ab]aaaabaabaaaaaaa```aa``aa`a^`_`
@HWI-EAS443:3:73:554:248#0/1
GCCTGATTAATGATCCCTGGGTTTTGCTTAATGCATCTTG

+HWI-EAS443:3:73:554:248#0/1
`abbbababb_]ababbbbbb[babaaaabaaaa`aYa``
@HWI-EAS443:3:73:758:1571#0/1
CTGGGTTTTGCTTAATGCATCTTGGTTCAACTCCTTCCTC
+HWI-EAS443:3:73:758:1571#0/1
a`baaTHT[a]Ya[X[LXRTa¥Y`VZ`S¥QW¥Y`Y^__]
@HWI-EAS443:3:73:985:1109#0/1
CCCTGGGTTTTGCTTAATGCATCTTGGTTCAACTCCTTCC
+HWI-EAS443:3:73:985:1109#0/1
ababbab`babaabbbbaaaaa`aaa[`aaaaaa`abaa
@HWI-EAS443:3:74:1408:1171#0/1
CTGGGTTTTGCTTAATGCATCTTGGTTCAACTCCTTCCTC
+HWI-EAS443:3:74:1408:1171#0/1
abbbbaabbbbabababbabbabb`aaaa_abaaaa_a_
@HWI-EAS443:3:74:1704:1694#0/1
AAGGAGTTGAACCAAGATGCATTAAGCAAAACCCAGGGAT
+HWI-EAS443:3:74:1704:1694#0/1
abba_]a_ab^]aabaababaa_]`a`_W¥`aaa^`_
@HWI-EAS443:3:74:198:497#0/1
GAAGGAGTTGAACCAAGATGCATTAAGCAAAACCCAGGGA
+HWI-EAS443:3:74:198:497#0/1
Z`bb_`a`bb`aa]^bbbabbbbaa[_ab[b`````baaaa
@HWI-EAS443:3:74:340:584#0/1
AGGAGTTGAACCAAGATGCATTAAGCAAAACCCAGGGATC
+HWI-EAS443:3:74:340:584#0/1
abbabaabbbbabaaaaabbabaaaa_]a`_aa[a`_^
@HWI-EAS443:3:74:82:1000#0/1
AAGGAGTTGAACCAAGATGCATTAAGCAAAACCCAGGGAT
+HWI-EAS443:3:74:82:1000#0/1
ZO]ZTY[HT_ZX`Ya]SVaa[[_Y¥W]UUY^VY]ZVSO[X
@HWI-EAS443:3:75:1290:1389#0/1
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+HWI-EAS443:3:75:1290:1389#0/1
abb[b_bba`W¥b_KaVb`]bSbaW^aa`]b^ba^a`^aY
@HWI-EAS443:3:75:539:572#0/1
CCCTGGGTTTTGCTTAATGCATCTTGGTTCAACTCCTTCC
+HWI-EAS443:3:75:539:572#0/1
`ba[V_]bb¥0^`Za^R0]Sba_W¥Taab^`a`a]a]T`
@HWI-EAS443:3:75:607:1430#0/1
CCCTGGGTTTTGCTTAATGCATCTTGGTTCAACTCCTTCC
+HWI-EAS443:3:75:607:1430#0/1
^`bbba_H[Zbb`[b_ba`Zbbba`a`_bbbbbabbabb
@HWI-EAS443:3:75:827:1026#0/1
CCCTGGGTTTTGCTTAATGCATCTTGGTTCAACTCCTTCC
+HWI-EAS443:3:75:827:1026#0/1
abaaba_T__`aa_Y_a_aa`a`a_]_a`a^_a```^`
@HWI-EAS443:3:76:1217:295#0/1
TGCCTGATTAATGATCCCTGGGTTTTGCTTAATGCATCTT
+HWI-EAS443:3:76:1217:295#0/1
`b`_ab[a_a`a]M[_`ba]M]``YZ^`Y__a]^`Wa^

@HWI-EAS443:3:76:649:1024#0/1
GGAGTTGAACCAAGATGCATTAAGCAAAACCCAGGGATCA
+HWI-EAS443:3:76:649:1024#0/1
a¥YUY[_aa¥W[]WX`¥^`_a_^]`^_^[[U^^XKT]]_
@HWI-EAS443:3:76:844:772#0/1
GCCTGATTAATGATCCCTGGGTTTTGCTTAATGCATCTTG
+HWI-EAS443:3:76:844:772#0/1
a`_VZ]`RUVZP¥TVVS__¥0]Y^]^^X]Y]]UY^Y]
@HWI-EAS443:3:77:1264:941#0/1
CCTGATTAATGATCCCTGGGTTTTGCTTAATGCATCTTG
+HWI-EAS443:3:77:1264:941#0/1
abbbbbbaabbbbbbbbaabbaabbbba`ababaaa
@HWI-EAS443:3:77:1307:718#0/1
CCTGGGTTTTGCTTAATGCATCTTGGTTCAACTCCTCCT
+HWI-EAS443:3:77:1307:718#0/1
]abba_bbabaaababb_aabbab_aaa`_aYaaaa`b
@HWI-EAS443:3:77:308:399#0/1
CCCTGGGTTTTGCTTAATGCATCTTGGTTCAACTCCTCC
+HWI-EAS443:3:77:308:399#0/1
J¥a`_aM¥ba¥a^^^`¥`_]a]aaabaKVbbZ^SW`a[ab
@HWI-EAS443:3:77:525:601#0/1
CCTGGGTTTTGCTTAATGCATCTTGGTTCAACTCCTCCT
+HWI-EAS443:3:77:525:601#0/1
abbbba[aa^Y^_aaa_Za`a^^aa]¥^aaaYaa`__¥a`
@HWI-EAS443:3:77:547:1631#0/1
GCCTGATTAATGATCCCTGGGTTTTGCTTAATGCATCTTG
+HWI-EAS443:3:77:547:1631#0/1
abbbabbbb`abaaababa_]`aaa`aaaaaa]_aaa
@HWI-EAS443:3:77:636:1769#0/1
CCCTGGGTTTTGCTTAATGCATCTTGGTTCAACTCCTCC
+HWI-EAS443:3:77:636:1769#0/1
abb`a`aVbabbbbbba_aaaaaaa_abaaaab`a``]
@HWI-EAS443:3:77:728:1582#0/1
GCCTGATTAATGATCCCTGGGTTTTGCTTAATGCATCTTG
+HWI-EAS443:3:77:728:1582#0/1
a^Y__YZ^VWZ]^a]W^_^`SX_TPT^`_a^^Y__`_aa
@HWI-EAS443:3:78:211:1135#0/1
TGGGTTTTGCTTAATGCATCTTGGTTCAACTCCTCCTCA
+HWI-EAS443:3:78:211:1135#0/1
aaaa[a__^^_a]^__a¥]¥`^`_]_]_a__^W`^^_W]^
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TGCATGTGTGAGGAAGGAGTTGAACCAAGATGCATTAAGC
+HWI-EAS443:3:78:41:380#0/1
bb]bb]¥[aV`]bbab¥aab_aaaa`aba]aaaaa
@HWI-EAS443:3:78:54:515#0/1
GGAAGGAGTTGAACCAAGATGCATTAAGCAAAACCCAGGG
+HWI-EAS443:3:78:54:515#0/1
`YFX`¥VUYVY¥]Q^`ZWU_NZ[¥[_[[[]]WYV¥RWTT]B
@HWI-EAS443:3:78:563:1920#0/1
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+HWI-EAS443:3:78:563:1920#0/1
abbaaaa]aa`_aaabb_Z`a_a_a¥___`aaa`]`_[]_
@HWI-EAS443:3:78:902:1322#0/1
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+HWI-EAS443:3:78:902:1322#0/1
`aY`_a_a`aaa_aaa`_`a_^a^¥Z`__^^_a_a_]_]_
@HWI-EAS443:3:79:1050:1285#0/1
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+HWI-EAS443:3:79:1050:1285#0/1
aa]]baaT[_`bb`aaa[]_]baaaaa`aaaaaa_`¥`a
@HWI-EAS443:3:79:1437:130#0/1
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+HWI-EAS443:3:79:1437:130#0/1
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@HWI-EAS443:3:79:496:1627#0/1
CCCTGGGTTTTGCTTAATGCATCTTGGTTCAACTCCTTCC
+HWI-EAS443:3:79:496:1627#0/1
aba`]`aZ_aa^`_ba]Z`_`_]`a^V`a]^]_`^^`_
@HWI-EAS443:3:7:1434:1261#0/1
ATCCCTGGGTTTTGCTTAATGCATCTTGGTTCAACTCCTT
+HWI-EAS443:3:7:1434:1261#0/1
abaaabbbb`baba_aabbab_aa^baaa^aX`]`]aa
@HWI-EAS443:3:7:1550:585#0/1
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+HWI-EAS443:3:7:1550:585#0/1
aa`_a_Pb`[aQ_aaabaa_^R^aaVaaaa_a^PHXaPS`
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AAGGAGTTGAACCAAGATGCATTAAGCAAAACCCAGGGAT
+HWI-EAS443:3:7:210:1012#0/1
aa_a¥`_aaa]aa`_a`_`aaaa`_____`]`_`Vaa`_^U
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+HWI-EAS443:3:7:554:1612#0/1
abI`abababababb`ababbaab¥Y_aa^`aa^a_aaaa
@HWI-EAS443:3:7:711:449#0/1
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+HWI-EAS443:3:7:711:449#0/1
a`a¥^`a]a`^aYQ_^_a_aY¥[`__^`__`X0¥R`Z_
@HWI-EAS443:3:7:784:1231#0/1
CTGGGTTTTGCTTAATGCATCTTGGTTCAACTCCTTCCTC
+HWI-EAS443:3:7:784:1231#0/1
aabbbbaaabbbbbbabba_abbabab`[]a`aaba`]a]
@HWI-EAS443:3:80:1063:1503#0/1
CTGGGTTTTGCTTAATGCATCTTGGTTCAACTCCTTCCTC
+HWI-EAS443:3:80:1063:1503#0/1
a`^_]FOZZOa`]aaW_T__¥^Yaa^aaaVPaa^`RXUQS
@HWI-EAS443:3:80:1074:1131#0/1
GGGTTTTGCTTAATGCATCTTGGTTCAACTCCTTCCTCAC
+HWI-EAS443:3:80:1074:1131#0/1
aaa[`aa`[aaaa¥¥a_b_aaa___W`a___]]`_Q^_^_`^`

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+HWI-EAS443:3:80:1628:1447#0/1
a``SZ_S]a`bY_a```baba`ba]Ka`^S`aZ^ba]`a
@HWI-EAS443:3:81:329:1868#0/1
CCCTGGGTTTTGCTTAATGCATCTTGGTTCAACTCCTTCC
+HWI-EAS443:3:81:329:1868#0/1
ababaa[[a]]T__U__Z]_^`ba`XXU`baaa]_a[[Y_
@HWI-EAS443:3:81:396:1389#0/1
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+HWI-EAS443:3:81:396:1389#0/1
abaaa]¥`G`__`a`_``[__a`aa`W[¥_a^aa`a`_[a
@HWI-EAS443:3:81:513:1323#0/1
AAGGAGTTGAACCAAGATGCATTAAGCAAAACCCAGGGAT
+HWI-EAS443:3:81:513:1323#0/1
a_a```^aabaaaa_¥W`_aaa_a___a_aa_`¥^Z]^`^`
@HWI-EAS443:3:81:971:785#0/1
CCTGGGTTTTGCTTAATGCATCTTGGTTCAACTCCTTCCT
+HWI-EAS443:3:81:971:785#0/1
abbbab`bbababaaaab`ab_baba`a`a][a^`a_`_a
@HWI-EAS443:3:82:1012:749#0/1
CTGGGTTTTGCTTAATGCATCTTGGTTCAACTCCTTCCTC
+HWI-EAS443:3:82:1012:749#0/1
abbbabbabbbbbb`bbbbbbbbbabababba_abbabb
@HWI-EAS443:3:82:1107:1306#0/1
GAGGAAGGAGTTGAACCAAGATGCATTAAGCAAAACCCAG
+HWI-EAS443:3:82:1107:1306#0/1
aa`[aaaaa]__a`[^a_a^`aaaa`_a]_Z]_`]W_^
@HWI-EAS443:3:82:361:248#0/1
GCCTGATTAATGATCCCTGGGTTTTGCTTAATGCATCTTG
+HWI-EAS443:3:82:361:248#0/1
abaa`XR_M]``LR_U^Z^]YX_^IQ`_NTTNW]]]^`Y_
@HWI-EAS443:3:82:461:1354#0/1
CTGGGTTTTGCTTAATGCATCTTGGTTCAACTCCTTCCTC
+HWI-EAS443:3:82:461:1354#0/1
ababaabbbbbbbbbbbbababbaabbbabbbbbbb`ba
@HWI-EAS443:3:82:520:1481#0/1
GTGAGGAAGGAGTTGAACCAAGATGCATTAAGCAAAACCC
+HWI-EAS443:3:82:520:1481#0/1
aY^Y_]Z`a¥__U[[^`^Z]aa[]¥aa]aWX_]¥]¥_YW
@HWI-EAS443:3:82:534:497#0/1
CCTGGGTTTTGCTTAATGCATCTTGGTTCAACTCCTTCCT
+HWI-EAS443:3:82:534:497#0/1
abbbbbbabbbbabba[ZYSZZ[_`b``WU`KZ¥_Q_a`VY
@HWI-EAS443:3:82:884:1610#0/1
GCCTGATTAATGATCCCTGGGTTTTGCTTAATGCATCTTG
+HWI-EAS443:3:82:884:1610#0/1
abaa__aab`a`_aaa^aaaa_abaa`aaaa^aa`aaa`a
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+HWI-EAS443:3:82:952:1838#0/1
`X`aZ]S]Z00Z[_UZaa_]aWWR^`¥`a`¥^M[VV[`a
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+HWI-EAS443:3:83:434:155#0/1
ab`bbbbbb`bbababbbabbabbababbaa`bbaaaaa
@HWI-EAS443:3:84:277:1759#0/1
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+HWI-EAS443:3:84:277:1759#0/1
bbaVSa`Ta`aa``aaaaZab`^`Ybaaaaa[a`X]
@HWI-EAS443:3:84:515:386#0/1
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+HWI-EAS443:3:84:515:386#0/1
`baabb¥aabbbbaaaaa^ababbbbaa_abbaba]Y_aaa
@HWI-EAS443:3:84:62:1222#0/1
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+HWI-EAS443:3:84:62:1222#0/1
abbSbababbabaaabbbbbbbbaabbabaabaabaaaa
@HWI-EAS443:3:84:712:1220#0/1
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+HWI-EAS443:3:84:712:1220#0/1
^R`a`¥^¥_`]]][`Z¥`_`a_a_V__`_a]_a[[^]]a__
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GTTTTGCTTAATGCATCTTGGTTCAACTCCTTCCTCACAC
+HWI-EAS443:3:84:737:909#0/1
a¥aTQR¥_`aa¥WY_aaaa]_HYa__a`a¥_aa__a``[0
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CCTGGGTTTTGCTTAATGCATCTTGGTTCAACTCCTTCCT
+HWI-EAS443:3:84:910:531#0/1
abbbb`]abaa_abaabaab`b``]``abbaa``abb¥¥
@HWI-EAS443:3:85:121:485#0/1
TGCCTGATTAATGATCCCTGGGTTTTGCTTAATGCATCTT
+HWI-EAS443:3:85:121:485#0/1
aaaaaa_aa_T_aa`_aaaa_a]```a_a`a^``aa`_`_`
@HWI-EAS443:3:85:1277:1070#0/1
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+HWI-EAS443:3:85:1277:1070#0/1
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@HWI-EAS443:3:85:142:1173#0/1
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+HWI-EAS443:3:85:142:1173#0/1
ab^]]¥baaabaabbaa]_baaaa¥Y_^`]a`^[\`aaa`a
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CCTGGGTTTTGCTTAATGCATCTTGGTTCAACTCCTTCCT
+HWI-EAS443:3:85:759:931#0/1
abbb^b^bbbbabbbbbbbabbbbbbaaba_`b`aaaaab
@HWI-EAS443:3:85:84:842#0/1
CCTGGGTTTTGCTTAATGCATCTTGGTTCAACTCCTTCCT
+HWI-EAS443:3:85:84:842#0/1
a`X]]Ma_]^___`a]Z¥`^`_`V¥]^ZXW]_Z]W^V¥

@HWI-EAS443:3:85:990:1562#0/1
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+HWI-EAS443:3:85:990:1562#0/1
`ababaaaba``baba_bbbbbbbb`_bba`bababbba
@HWI-EAS443:3:86:1130:130#0/1
CCTGGGTTTTGCTTAATGCATCTTGGTTCAACTCCTTCCCT
+HWI-EAS443:3:86:1130:130#0/1
a`Ya^TM_``aUabbbba]a``V_X^[]^a¥^]LYTPX_
@HWI-EAS443:3:86:265:903#0/1
CCTGGGTTTTGCTTAATGCATCTTGGTTCAACTCCTTCCCT
+HWI-EAS443:3:86:265:903#0/1
ab``aaZ]W]a]aaaa`aY``_``_]`aa_`aa`]¥__`
@HWI-EAS443:3:86:346:1533#0/1
CTGATTAATGATCCCTGGGTTTTGCTTAATGCATCTTGGT
+HWI-EAS443:3:86:346:1533#0/1
abaaabbbbab`abbaaba^baaaaaaba`abbaa`aa¥^
@HWI-EAS443:3:86:401:1397#0/1
CTGGGTTTTGCTTAATGCATCTTGGTTCAACTCCTTCCCTC
+HWI-EAS443:3:86:401:1397#0/1
Ta_Nbba`b[b[babab`Zaa]V[RI[`b]a_b_aaa`a]
@HWI-EAS443:3:86:487:80#0/1
GCCTGATTAATGATCCCTGGGTTTTGCTTAATGCATCTTG
+HWI-EAS443:3:86:487:80#0/1
aa^]b[a`]V]``]X_]_^`Y_]__Y^__Y^_]_]UU^T
@HWI-EAS443:3:86:548:318#0/1
TGGGTTTTGCTTAATGCATCTTGGTTCAACTCCTTCCCTCA
+HWI-EAS443:3:86:548:318#0/1
a`_`Vaaa^aa`aa^[aaaaa`Z^__a__a^^`___^]_
@HWI-EAS443:3:86:798:1824#0/1
TGATTAATGATCCCTGGGTTTTGCTTAATGCATCTTGGTT
+HWI-EAS443:3:86:798:1824#0/1
aaaaaaaaaaaa_aaabba_baaa`aaaa_a_aa_aaa]`_
@HWI-EAS443:3:87:105:1573#0/1
TGCCTGATTAATGATCCCTGGGTTTTGCTTAATGCATCTT
+HWI-EAS443:3:87:105:1573#0/1
aabba^aaabYaaaabaaa`_a^aaaaa`ba`a`aa`a`
@HWI-EAS443:3:87:1283:83#0/1
GAAGGAGTTGAACCAAGATGCATTAAGCAAACCCAGGGA
+HWI-EAS443:3:87:1283:83#0/1
I[bbbbaaaa¥a[]Wabbaab`bbba`baa^^a_a]ba`aa
@HWI-EAS443:3:87:1514:843#0/1
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+HWI-EAS443:3:87:1514:843#0/1
[abbbabbbabbababb_bbababbab_abb_aabb^ab^
@HWI-EAS443:3:87:1617:673#0/1
CTGGGTTTTGCTTAATGCATCTTGGTTCAACTCCTTCCCTC
+HWI-EAS443:3:87:1617:673#0/1
`a`ababbb`bbbbabbbb`bbb¥babbbabaabb`Ub]
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GTGCCTGATTAATGATCCCTGGGTTTTGCTTAATGCATCT

+HWI-EAS443:3:87:236:882#0/1
a_ababbaabbaaaaaaabbba[aaaaab`aaaa]aaa
@HWI-EAS443:3:87:372:1936#0/1
GAAGGAGTTGAACCAAGATGCATTAAGCAAACCCAGGGA
+HWI-EAS443:3:87:372:1936#0/1
_W^Z¥]TXWRXa¥^¥RMOPa^aYa_SZaaaa`[W`S_XH
@HWI-EAS443:3:87:913:1428#0/1
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+HWI-EAS443:3:87:913:1428#0/1
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@HWI-EAS443:3:88:672:1005#0/1
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+HWI-EAS443:3:88:672:1005#0/1
[`[a_Y[UaOZT[a`ab`V¥]VbUQ¥`SWaYM]abb_`O¥
@HWI-EAS443:3:88:707:111#0/1
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+HWI-EAS443:3:88:707:111#0/1
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@HWI-EAS443:3:88:987:1394#0/1
CTGGGTTTTGCTTAATGCATCTTGGTTCAACTCCTTCCCTC
+HWI-EAS443:3:88:987:1394#0/1
a`]¥YX]Y^`V]_ZZUW¥SVZ][_Z]Z^`¥QX]__`a`_]
@HWI-EAS443:3:89:133:1838#0/1
CTGGGTTTTGCTTAATGCATCTTGGTTCAACTCCTTCCCTC
+HWI-EAS443:3:89:133:1838#0/1
abaa_^aaaa_aaaa_aaaaaa__]`aaa_`aa__``__
@HWI-EAS443:3:89:141:938#0/1
CCCTGGGTTTTGCTTAATGCATCTTGGTTCAACTCCTTCC
+HWI-EAS443:3:89:141:938#0/1
ab_`__[N_W_S]ba``YWZ`[aS¥baZY_]`_`Y^X^_Z
@HWI-EAS443:3:89:284:650#0/1
CTGGGTTTTGCTTAATGCATCTTGGTTCAACTCCTTCCCTC
+HWI-EAS443:3:89:284:650#0/1
aY_b_P¥^_a][ZX^b]aa`a`a_W]_^T[^`a`_]_^_
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GTTGAACCAAGATGCATTAAGCAAACCCAGGGATCATT
+HWI-EAS443:3:89:481:557#0/1
a`XaTa_aaW¥^_aa`_a`_`_____^¥`_`_X]__^¥
@HWI-EAS443:3:89:538:1153#0/1
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+HWI-EAS443:3:89:538:1153#0/1
aaababb_bbbaababbabbabbaab_abbaabaaaa_
@HWI-EAS443:3:89:564:1340#0/1
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+HWI-EAS443:3:89:564:1340#0/1
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@HWI-EAS443:3:89:71:764#0/1
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+HWI-EAS443:3:89:71:764#0/1
ababbb_aabbb`a__aaaaaaaaba]aaaaaaaaa_``

+HWI-EAS443:3:93:1250:307#0/1
a[_aa]a`^^]VSP]a[aU^¥]aaaaM^`PO_¥MG[Q]PX
@HWI-EAS443:3:93:129:1416#0/1
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+HWI-EAS443:3:93:129:1416#0/1
a`aaaQaaaaaa`aa_aa¥a`a_`^_aaa`a_a^a_`]^_
@HWI-EAS443:3:93:1669:680#0/1
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+HWI-EAS443:3:93:1669:680#0/1
a¥¥¥a_`X`^``ab`a`¥aaba]``aUab¥`U^a[`
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+HWI-EAS443:3:93:236:615#0/1
aW]a]aa^_a`a_a``a_`VZ^```]^_]__]T^`___Y]^
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+HWI-EAS443:3:93:853:1847#0/1
aSRGTa_`PT¥U^P¥T_Wa^a_aXT¥^`_`[[^_Z^ZPX]
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+HWI-EAS443:3:93:88:876#0/1
`a[b^bab^aab`L````a[aa``aaaa]`a`a`[`a_`a
@HWI-EAS443:3:94:284:231#0/1
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+HWI-EAS443:3:94:284:231#0/1
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GGGTTTTGCTTAATGCATCTTGGTTCAACTCCTTCCTCAC
+HWI-EAS443:3:94:503:297#0/1
aaaU^aaa`a_a`]aZZ`]a_`a¥^U¥a¥`Z¥__[V¥_]`
@HWI-EAS443:3:94:553:694#0/1
CTGGGTTTTGCTTAATGCATCTTGGTTCAACTCCTTCCTC
+HWI-EAS443:3:94:553:694#0/1
abbab_aaaaa`a_aabaaaaaaaa`^aa^aa`a`a`a[
@HWI-EAS443:3:94:740:555#0/1
CCTGGGTTTTGCTTAATGCATCTTGGTTCAACTCCTTCCT
+HWI-EAS443:3:94:740:555#0/1
abbbaZbabbbbabbbababbbbbZba_aba_]baaa`
@HWI-EAS443:3:94:75:1037#0/1
CTGGGTTTTGCTTAATGCATCTTGGTTCAACTCCTTCCTC
+HWI-EAS443:3:94:75:1037#0/1
abbba_aaaabaaaba`aaaaaa¥_a`_`^`a_`a````_
@HWI-EAS443:3:94:808:1389#0/1
AGGAGTTGAACCAAGATGCATTAAGCAAAACCCAGGGATC
+HWI-EAS443:3:94:808:1389#0/1
`abaa`^`[]SZP_]YRb`a`]T_]_aTV^Z^PY`Z^^WG
@HWI-EAS443:3:94:880:1890#0/1
GGAGTGCCTGATTAATGATCCCTGGGTTTTGCTTAATGCA
+HWI-EAS443:3:94:880:1890#0/1
]abb^bb`ba`bb_baaaa^_abba]_]_baaababaaa^a

@HWI-EAS443:3:95:1005:988#0/1
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+HWI-EAS443:3:95:1005:988#0/1
`WZZ[Ra_b`^`aaZUb¥I`aab_V0aa``abaXaT[a``
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+HWI-EAS443:3:95:720:1347#0/1
abbababbabbbbbbbabbbbbbbababbbbbbabba_ba
@HWI-EAS443:3:95:795:1694#0/1
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+HWI-EAS443:3:95:795:1694#0/1
_¥Z]`b^__abbba^aaaabaaa`a`aa`aa]aa`aa`a`
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+HWI-EAS443:3:95:990:2004#0/1
aabb[GV`ba]`abaaa_ab`aa^¥¥aaa^LX`aaa__a_
@HWI-EAS443:3:96:314:933#0/1
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+HWI-EAS443:3:96:314:933#0/1
^U`_`ba]aYbVUb`WaZ[]Xb¥abb_`aaa]aUVSWWa[
@HWI-EAS443:3:96:969:241#0/1
CCTGGGTTTTGCTTAATGCATCTTGGTTCAACTCCTTCCT
+HWI-EAS443:3:96:969:241#0/1
aa^``_LZabaY¥`aYaaaUa[aaX^¥_Z_^]aRX¥]QR[
@HWI-EAS443:3:97:240:812#0/1
GAGTGCCTGATTAATGATCCCTGGGTTTTGCTTAATGCAT
+HWI-EAS443:3:97:240:812#0/1
aa^)``_aa¥Y_]aaaX]WU`b`aGaP^a^`^`_``¥`_
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AAGGAGTTGAACCAAGATGCATTAAGCAAACCCAGGGAT
+HWI-EAS443:3:97:77:71#0/1
aaaa^a[]]^¥_Z¥__Z^¥^__X^_Z^]XMKOUZUZOTN
@HWI-EAS443:3:97:956:555#0/1
CTGGGTTTTGCTTAATGCATCTTGGTTCAACTCCTTCCTC
+HWI-EAS443:3:97:956:555#0/1
`bab`abbaa`bababbaaaababaaa`aa_a_aaa]_a`
@HWI-EAS443:3:98:1011:1792#0/1
GGTTTTGCTTAATGCATCTTGGTTCAACTCCTTCCTCACA
+HWI-EAS443:3:98:1011:1792#0/1
abS^R_`Y]_aa`aT_a]]`_^`__`^^``]]_^^^`
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+HWI-EAS443:3:98:1395:860#0/1
a`ba_bb``a[`aa__^aaa^``a_a`]a__^_YLMOW`
@HWI-EAS443:3:98:1530:757#0/1
AAGGAGTTGAACCAAGATGCATTAAGCAAACCCAGGGAT
+HWI-EAS443:3:98:1530:757#0/1
abbb_b]aaaa[]bb]aa^YbabbZaN`a`_QZ^aXZ`a`
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+HWI-EAS443:3:98:524:1417#0/1
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+HWI-EAS443:3:98:681:1355#0/1
[aYaabZ^abb]`S`_V^J^aa^`b`bbYabba[[Z^aaa
@HWI-EAS443:3:98:872:53#0/1
TGCTTAATGCATCTTGGTTCAACTCCTTCCTCACACATGC
+HWI-EAS443:3:98:872:53#0/1
Y_H_T_¥[baaa[bbbbR`a`bY^abXH[OH^[Z`[]U
@HWI-EAS443:3:99:1055:156#0/1
CTGGGTTTTGCTTAATGCATCTTGGTTCAACTCCTTCCTC
+HWI-EAS443:3:99:1055:156#0/1
abbbb^bbbabbbbabababba`aaaaab`aaaa`aa
@HWI-EAS443:3:99:1606:917#0/1
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+HWI-EAS443:3:99:1606:917#0/1
aa````babaYV_`abaa^abaaa``ZX¥]¥Uaa_WWX]
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+HWI-EAS443:3:99:205:1458#0/1
[ZMUZYaaaa^^^a^]aa_aaa_aa^¥Z`_¥S`[a`_a
@HWI-EAS443:3:99:28:1464#0/1
CCTGGGTTTTGCTTAATGCATCTTGGTTCAACTCCTTCCT
+HWI-EAS443:3:99:28:1464#0/1
S``bbbU_TY¥bb`ab]b`b[bbbb``bba[baabaaab
@HWI-EAS443:3:99:503:346#0/1
CCCTGGGTTTTGCTTAATGCATCTTGGTTCAACTCCTTCCTC
+HWI-EAS443:3:99:503:346#0/1
ababbbb`bbbaabababbaaaaaaba_aaaa]aa_aa`
@HWI-EAS443:3:99:698:246#0/1
CTGGGTTTTGCTTAATGCATCTTGGTTCAACTCCTTCCTC
+HWI-EAS443:3:99:698:246#0/1
`¥_W_Y`__[`¥YaZ_USZX`[^`^TSXZRGX[RZ^U[`Z
@HWI-EAS443:3:99:780:120#0/1
GAACCAAGATGCATTAAGCAAAACCCAGGGATCATTAAATC
+HWI-EAS443:3:99:780:120#0/1
abba`aababb¥`bbaaa`aaaa¥YZ`aaa`_`aaa_¥_^
@HWI-EAS443:3:9:1113:1633#0/1
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+HWI-EAS443:3:9:1113:1633#0/1
ababbabbabaabbb`bbabaababba^bb_aabaaaba
@HWI-EAS443:3:9:1555:1540#0/1
GATCCCTGGGTTTTGCTTAATGCATCTTGGTTCAACTCCT
+HWI-EAS443:3:9:1555:1540#0/1
aab¥`abaab]aaab_aaaaaaa`_aaba^a]a`^ZRUA
@HWI-EAS443:3:9:1617:1267#0/1
TGCCTGATTAATGATCCCTGGGTTTTGCTTAATGCATCTT
+HWI-EAS443:3:9:1617:1267#0/1
aba`ab^_a_a]a`^_^`aa`V`_^_Z`__^`ZX^X__

@HWI-EAS443:3:9:569:871#0/1
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+HWI-EAS443:3:9:569:871#0/1
`SQUPGYa`TORVPUR]PUYS¥QSUMTWYFVV]ZXWPVZZ
@HWI-EAS443:3:9:67:1871#0/1
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+HWI-EAS443:3:9:67:1871#0/1
_^bbaaaaabaa`aba[UYa`ba_a¥T`aa¥aa`aab]
@HWI-EAS443:3:9:759:280#0/1
CCCTGGGTTTTGCTTAATGCATCTTGGTTCAACTCCTTCC
+HWI-EAS443:3:9:759:280#0/1
a`abbbb^aaabaabaabb_aaaaa`aa`a`__a`_`
@HWI-EAS443:3:9:932:1427#0/1
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+HWI-EAS443:3:9:932:1427#0/1
``[JVQOQUSWOZW¥UO[PYQSZY¥[[ZY_YRV^WRRT[S
@HWI-EAS443:3:9:990:1066#0/1
CCTGGGTTTTGCTTAATGCATCTTGGTTCAACTCCTTCCT
+HWI-EAS443:3:9:990:1066#0/1
`¥[a]R_SW]HX]XIO`__R]Y`Z¥^_U¥MYSR¥^YLW
@HWI-EAS443:3:92:1397:312#0/1
AGCAAATAGTAGCATTGCCACAACACTACNTCAATGCATGTG
+HWI-EAS443:3:92:1397:312#0/1
[¥_babbV_b]abbb_aa`¥a_abLDZ_a`bSa]_]b
@HWI-EAS443:3:34:444:427#0/1
TGGATAGCAAATAGTAGCATTGCCACAACACTACCTCAATGC
+HWI-EAS443:3:34:444:427#0/1
V_¥Y]PYabb_a¥VT`a]XXaabbaa`Z[aUa__a[¥aZ
@HWI-EAS443:3:51:606:95#0/1
GCTATATGAAGCAATGGAGGAGTGCCTGATTAATGATCCC
+HWI-EAS443:3:51:606:95#0/1
P_____H_ab]bZ`b_T__Y_^ZK`^¥ba[¥b¥H`R¥_QH
@HWI-EAS443:3:99:240:1052#0/1
GGATGAGCGAACTCATCCTTTATGACAAAGAAGAAATAAG
+HWI-EAS443:3:99:240:1052#0/1
¥ab^b`_IU_0]`¥`^[^a`Z]baa]WT_a]HF]V]^P_
@HWI-EAS443:3:33:995:244#0/1
GCTTTTTACTCTAGCTCTATGTTGACAAAATGACAATCGT
+HWI-EAS443:3:33:995:244#0/1
OFQUZWb^¥`a`aa__RX_`VUaUa[^_]_T[R]GYYSQV
@HWI-EAS443:3:13:1250:1310#0/1
GTAGTTTTTTACTCTAGCTCTATGTTGACAAAATGAGCAT
+HWI-EAS443:3:13:1250:1310#0/1
`¥J]RTaSXW[R¥UY_`SWNTVWUO¥^XW[¥_M[LBBBBB
@HWI-EAS443:3:43:296:603#0/1
TAGTTTTTTACTCTAGCTCTATGTTGACAAAATGACTATC
+HWI-EAS443:3:43:296:603#0/1
Y^RLPW_aa^¥]_S0_^a]^Z]^Z_W`VaV]UV¥[WHP``
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+HWI-EAS443:3:58:300:1374#0/1
aabb_bbaaaaaaabaa_Z^a`aa_Ya^aaaa]a`a
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CAAGGTAGTTTTTACTCTAGCTCTATGTTGACAAAATGA
+HWI-EAS443:3:70:584:807#0/1
ababb]bb_aaaaaaabaa`aaaa`aa`a__a`a__a
@HWI-EAS443:3:30:938:1140#0/1
GGATTTGCTGAGCTTTGGGTATGAATCTCCTTTTTTAACT
+HWI-EAS443:3:30:938:1140#0/1
a`_aaa_aU[]__`aa`_^_aaU^_]`a_]`a`a`_^S_
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GACCCATTAGAGCACATCCAGAACTGATTGCCCCAGGGA
+HWI-EAS443:3:65:702:1978#0/1
`b]bb¥XP^`Vaaaabababababababababab`]Q¥[b
@HWI-EAS443:3:79:1614:330#0/1
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+HWI-EAS443:3:79:1614:330#0/1
ab_a_baabbaaaa`^aaa`_^aZzb`aa`]Ua_P[[_
@HWI-EAS443:3:77:1640:728#0/1
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+HWI-EAS443:3:77:1640:728#0/1
abaab_bbbbbb`aab`bbbbbbbaa`^aaba_b_bb`aa`
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+HWI-EAS443:3:59:717:259#0/1
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+HWI-EAS443:3:76:1075:1713#0/1
U_T^[¥`VbV`bU_`^S`a`[^U`Ka_UV`XVG¥`a
@HWI-EAS443:3:14:1751:938#0/1
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+HWI-EAS443:3:14:1751:938#0/1
a`TT^¥``[^`[^WSW^ZV^__TU]Y]_]T]WWT^NTTV
@HWI-EAS443:3:29:264:1236#0/1
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+HWI-EAS443:3:29:264:1236#0/1
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@HWI-EAS443:3:35:600:1893#0/1
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+HWI-EAS443:3:35:600:1893#0/1
`a`TT^aaaab_¥N`HZ^]_Ta¥a_aGR][¥]`¥0_a^_
@HWI-EAS443:3:42:274:41#0/1
CCATCCTGTTGTATATGAGGCCCATGCAACTGGCAAGTGC
+HWI-EAS443:3:42:274:41#0/1
aa`_aabbaab`_aab`a_aaaaaa_W]^`_]X¥V`]
@HWI-EAS443:3:54:252:1512#0/1
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+HWI-EAS443:3:54:252:1512#0/1
aabaababb`bbaaaaa^a^aaaaa_a^YU]__`_X__`_

@HWI-EAS443:3:62:102:101#0/1
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+HWI-EAS443:3:62:102:101#0/1
abaaaaabb_aaabb`a_a`a^`a]R_^]]]]_ ^YY]ZU
@HWI-EAS443:3:70:1403:625#0/1
GGTGCCTTGGCAGTTGCATGGGCCTCATATACAACAGGA
+HWI-EAS443:3:70:1403:625#0/1
ab[a]bbaabba^a^aaabaaaba`b_aaaba_aa^a_a_
@HWI-EAS443:3:71:552:77#0/1
CATCCTGTTGTATATGAGGCCCATGCAACTGGCAAGTGCAC
+HWI-EAS443:3:71:552:77#0/1
`bbaabbabbaaaaaa_]aa`^a`^a`^^W^a_] ^TWV]
@HWI-EAS443:3:72:233:1757#0/1
CATCCTGTTGTATATGAGGCCCATGCAACTGGCAAGTGCAC
+HWI-EAS443:3:72:233:1757#0/1
a`aab[`U_bSa^a_Q^S]ba`U__b_a_YUUa`^TNRa_
@HWI-EAS443:3:73:92:1968#0/1
TCCTGTTGTATATGAGGCCCATGCAACTGGCAAGTGCACC
+HWI-EAS443:3:73:92:1968#0/1
abbb`b_abbbb`a]YbbbaabaYba`_``_a[]ab``V
@HWI-EAS443:3:77:313:1227#0/1
ATCCTGTTGTATATGAGGCCCATGCAACTGGCAAGTGCAC
+HWI-EAS443:3:77:313:1227#0/1
_WV`] `J_UN` aP¥aXLWaa[a¥^[\`SFV^SINUWT__^
@HWI-EAS443:3:7:869:1855#0/1
CACTTGCCAGTTGCATGGGCCTCATATACAACAGGATGGG
+HWI-EAS443:3:7:869:1855#0/1
[ba`]aabaaHX[Wa][`a`_a[Saa`aY^aU`aYSP]]_
@HWI-EAS443:3:85:188:1484#0/1
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+HWI-EAS443:3:85:188:1484#0/1
abaabbaZ_aaaaaaab[Z`a_X^a`_`^_WX[`Q¥V]a
@HWI-EAS443:3:8:353:1170#0/1
ATCCTGTTGTATATGAGGCCCATGCAACTGGCAAGTGCAC
+HWI-EAS443:3:8:353:1170#0/1
`a_``b[`b^^b^aaa`GbNRa[a]__^U^H_a_NHVG_B
@HWI-EAS443:3:36:1081:1384#0/1
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+HWI-EAS443:3:36:1081:1384#0/1
aaaab`aa_`aaa`aaa_a`X_`ZSS_`TDN¥[N[TSU
@HWI-EAS443:3:25:1509:80#0/1
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+HWI-EAS443:3:25:1509:80#0/1
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@HWI-EAS443:3:100:1063:532#0/1
TGTCTCTTCGCCTCTTTCGGACTGACGAAAGGAATCCCAT
+HWI-EAS443:3:100:1063:532#0/1
aZ__baa¥_`^`_aa`¥a^Z¥a_Z^Z__`a__a`QXN]B
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+HWI-EAS443:3:16:1599:822#0/1
aaYZ[]baYbUR^^YWaa^^Y^FTZ¥_Z^¥¥^Q]Y]^[]X
@HWI-EAS443:3:25:694:577#0/1
ATTCTTTTCGTCAGTCCGAAAGAGGCGAAGAGACAATTGA
+HWI-EAS443:3:25:694:577#0/1
aaabaaababaaaa^]aa_a_a`aa]a`_a____]_`^__
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TATGGGATTCTTTTCGTCAGTCCGAAAGAGGCGAAGAGAC
+HWI-EAS443:3:29:548:878#0/1
aaba_QR]aa^aaa`_R[___S^a____`^a_[____MPR_[
@HWI-EAS443:3:30:1323:108#0/1
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+HWI-EAS443:3:30:1323:108#0/1
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^aab`aaa`ab_ab_aaa[aaa_[``^^__a_¥`^aUUZU
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+HWI-EAS443:3:56:1174:683#0/1
aaaa_a_```_a^]a_``^Va_U¥__¥^__^`^UZ¥¥¥S

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+HWI-EAS443:3:6:1246:736#0/1
a`baaab__a`aaa`_¥a^a``_]`^X`a_^_^]_a]____
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a`a`_a`aaaaaa`a_aa_^`^a^_a]_]aa¥^`_`^Z[
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ab_aaaabbaaa`b_a`aaaaa__`a¥^_a`_____YR]
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``_aaab`a```ab^ba`__a]^_____X¥^^a_^]_
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aaa`_`____a__a]_^]VZ^`_`^]Y]_]_^]`UV[Y¥
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abaaY` `¥a`_N^`Y[_XaY]_`Sa¥^X_aR¥__Q_Y_`S
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+HWI-EAS443:3:18:272:1724#0/1
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+HWI-EAS443:3:25:182:1399#0/1
a`ba¥aba__`_bbaaaaabaab`a_b]Y^a_aV[DUP]
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+HWI-EAS443:3:30:326:465#0/1
_aa`¥a`aa_T__Z`aaaa^aaa__`a`aaZa_a_[O[¥
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+HWI-EAS443:3:31:801:160#0/1
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+HWI-EAS443:3:63:1162:1249#0/1
Y`a[^`^W[WZYW¥]]`a¥]^JYTVYQWXR[`[VWZX¥
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+HWI-EAS443:3:68:492:1342#0/1
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+HWI-EAS443:3:80:1412:897#0/1
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+HWI-EAS443:3:95:1436:1770#0/1
a_aaaab[HZ]__I_]babaH_RN¥Ub`ZSZUBBBBBBBB
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+HWI-EAS443:3:25:1740:1750#0/1
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+HWI-EAS443:3:13:905:966#0/1
ab``¥`[_¥¥GZ_YVTY¥][VTY[S[Y_^RZ]a[XOW¥X
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+HWI-EAS443:3:17:940:1036#0/1
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+HWI-EAS443:3:23:631:1129#0/1
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+HWI-EAS443:3:27:1428:789#0/1  
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a^a`abZ\_^`Z¥^PQ][a`\_] ^X\_X[\_`^GV^][ZM^]YV  
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+HWI-EAS443:3:3:1358:345#0/1  
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R\_`[[`bb`ab^[\_abb\_¥ababbbbbbbbb\_Ia^[S\_a  
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+HWI-EAS443:3:48:852:875#0/1  
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+HWI-EAS443:3:4:60:1160#0/1  
T\_Ya^`aa\_\_b`Ua]ab\_I\_aa\_\_[]]bTLI\_SIJ¥ZZ\_b  
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+HWI-EAS443:3:61:1428:104#0/1  
\_bbQHQa`a`bS`\_\_Sa\_bS^HRZ`aS\_`^Z]NY^aHZ^^  
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¥``\_bb`bbbb¥\_Saba\_\_^aabZYa`UEQRPRY^M[Y[  
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+HWI-EAS443:3:65:1430:527#0/1  
a`]aa¥D[aaa`a]Z\_`\_`M^]ZQ^\_``\_\_W\_\_\_U^^\_^  
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+HWI-EAS443:3:65:161:1118#0/1  
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+HWI-EAS443:3:86:845:522#0/1  
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+HWI-EAS443:3:90:498:1381#0/1  
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+HWI-EAS443:3:93:1124:1149#0/1  
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Sa`b\_XV[abbb`bb\_]b\_a[Xa]abVaaWWX^SQY¥DX[  
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+HWI-EAS443:3:31:432:1953#0/1  
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+HWI-EAS443:3:60:582:542#0/1  
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+HWI-EAS443:3:15:85:1647#0/1  
aba^a`aa`a]aa\_\_Ya`aa]¥`\_`W¥SDWXZ^[]H]S  
@HWI-EAS443:3:15:86:1041#0/1  
TGTTGGT NATGAAACGAAAACGGGACTCTAGCATACTTAC  
+HWI-EAS443:3:15:86:1041#0/1  
abaab^SD]`aaaaab`aaa`]`\_\_aa`\_`]aaa]`a`a`  
@HWI-EAS443:3:20:689:1544#0/1  
GGCTGTCAGTAAGTATNCTAGAGTCCCCTTTTCGTTTCAT  
+HWI-EAS443:3:20:689:1544#0/1  
`bbab\_baa\_b`\_PaWDYa\_Z\_`T\_\_aaY^\_`]\_W\_¥W^\_  
@HWI-EAS443:3:22:1391:1108#0/1  
AATTGATGGCCATCCGAATTCTTTTGGTCGCTGCTGGCT  
+HWI-EAS443:3:22:1391:1108#0/1  
`\_a^``aaaYW]\_\_`a]`]`aaa`[XUUaXDWZ^\_]¥BB  
@HWI-EAS443:3:25:910:222#0/1  
TCCGAATTCTTTTGGTCGCTGTCTGNCTGTCAGTAAGTAT  
+HWI-EAS443:3:25:910:222#0/1  
^¥¥\_^S\_abbabaa\_OZ`a```]¥YDXXaWUWYVS]ZQBB  
@HWI-EAS443:3:30:113:1068#0/1  
GGCCATCCGAATTCTTNTGGTCGCTGTCTGGCTGTCAGTA  
+HWI-EAS443:3:30:113:1068#0/1  
¥]aaW\_ab[`Yabb`^D¥`]\_baaa]]baa`ba]0¥]\_F]  
@HWI-EAS443:3:34:720:1298#0/1  
CTGTCAGTNAGTATGCTAGAGTCCCCTTTTCGTTTCATTA

+HWI-EAS443:3:34:720:1298#0/1  
a`Z`]aVD[[KY^a^`X`VXT```[]]^\_Y\_IUSW]^W^  
@HWI-EAS443:3:37:1706:823#0/1  
GGCCATCCGAATTNTTTTGGTCGCTGTCTGGCTGTCAGTA  
+HWI-EAS443:3:37:1706:823#0/1  
`]`]aaa`b`]`\_[DZaaa]¥¥aa`aa]Y\_G¥Z^^KDNYP  
@HWI-EAS443:3:39:1714:992#0/1  
CATCCGAATTCTTTTGGTCGCTGTCTGNCTGTCAGTAAGT  
+HWI-EAS443:3:39:1714:992#0/1  
^bba`aa`¥\_babb``aZ^aR`ba^a[DYa]QRR\_U]]`G  
@HWI-EAS443:3:42:1224:746#0/1  
GATGGCCATCCGAATTCTNTTGGTCGCTGTCTGGCTGTCA  
+HWI-EAS443:3:42:1224:746#0/1  
`^`Taa\_a]bbbab`bRD¥abaQ`b\_S^ZG\_\_a]`aN]V  
@HWI-EAS443:3:43:338:1325#0/1  
GCTGTCAGTAAGTATGCTAGAGTCCCGTTTTTCGTTNCATT  
+HWI-EAS443:3:43:338:1325#0/1  
abbbabbb[abbaba`aba``a`aaaa\_abbZa`¥DL\_aa  
@HWI-EAS443:3:43:856:1825#0/1  
GGCCATCCGAATTCTTTTNGTCGCTGTCTGGCTGTCAGTA  
+HWI-EAS443:3:43:856:1825#0/1  
aa`bbbbbbabb\_\_bab[D[\_bbabba`ba`¥`aK]a\_Za  
@HWI-EAS443:3:48:1645:405#0/1  
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+HWI-EAS443:3:48:1645:405#0/1  
aab[D¥a\_Y0][^`a[\_^X][[^Z\_[]][¥W^`¥KYPXYL  
@HWI-EAS443:3:57:1042:1423#0/1  
CTGTCAGTAAGTATGNTAGAGTCCCGTTTTTCGTTTCATTA  
+HWI-EAS443:3:57:1042:1423#0/1  
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+HWI-EAS443:3:61:696:282#0/1  
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@HWI-EAS443:3:66:1100:1253#0/1  
GGCTGTCAGTAAGTATGCTAGAGTCCCGTTTTNGTTTCAT  
+HWI-EAS443:3:66:1100:1253#0/1  
aabab[bb`abab¥a^¥T]H^`bP`aa\_YUa¥DU\_aaTa^  
@HWI-EAS443:3:67:838:1421#0/1  
AACGAAAACNGACTCTAGCATACTTACTGACAGCCAGAC  
+HWI-EAS443:3:67:838:1421#0/1  
`a\_¥`^¥[`XD[`TT\_`a[`aX^^aab]aY\_NX\_```a\_N  
@HWI-EAS443:3:6:844:388#0/1  
CTGNCTGTCAGTAAGTATGCTAGAGTCCCGTTTTTCGTTTC  
+HWI-EAS443:3:6:844:388#0/1  
ab]D]baUabbabbb``a^abba^b^YY`b¥`bb\_b^ab\_  
@HWI-EAS443:3:73:1372:1132#0/1  
GGCCATCCGAATTCTTTTGGTCGCTGTNTGGCTGTCAGTA  
+HWI-EAS443:3:73:1372:1132#0/1  
aIU[`aY\_¥\_\_aaZ]`aa`\_U¥a¥`\_RDU\_\_S¥¥VPGPTR

@HWI-EAS443:3:76:1049:810#0/1  
TCGCTGTCTGGCTGTCAGTAAGTATGCTAGAGTCNCGTTT  
+HWI-EAS443:3:76:1049:810#0/1  
aaaaaaaaabaaaaaa]TTa^^^W][[R\_V\_^\_ZXDZ\_V¥^  
@HWI-EAS443:3:76:716:53#0/1  
AAACNGGACTCTAGCATACTTACTGACAGCCAGACAGCGA  
+HWI-EAS443:3:76:716:53#0/1  
^^\_[D[\_¥RZaZ¥R\_a¥UPa`aa]a[L[Z]^`aaa\_`V`X  
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ATCCGAATTCTTTTGGTCGCTGTCTGNCTGTCAGTAAGTA  
+HWI-EAS443:3:79:1342:674#0/1  
\_[\_^aZZaa^abaa\_]aaY`aa[a¥D[``X[Y¥UUXXR^  
@HWI-EAS443:3:87:20:1320#0/1  
GTCGCTGTNTGGCTGTCAGTAAGTATGCTAGAGTCCCGTT  
+HWI-EAS443:3:87:20:1320#0/1  
`\_aaaa]ODL]\_^¥YP]Q¥S^]]R\_ZU^[PU]]HYY^¥GT  
@HWI-EAS443:3:8:432:1583#0/1  
CTGGCTNTCAGTAAGTATGCTAGAGTCCCGTTTTTCGTTTC  
+HWI-EAS443:3:8:432:1583#0/1  
ab[`bYDZbba^`a^Xb`¥XUbabaJV^aa^aaaa¥aa^  
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CAGTAAGTATGCNAGAGTCCCGTTTTTCGTTTCATTACCAA  
+HWI-EAS443:3:8:856:1007#0/1  
aab\_bab^b`a[DU^\_a^\_``aYaaa^aV^\_`\_`\_`[]``  
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GAATTCTTTTGGTCGCTGTCTGGCTGTCAGTAAGTATGGT  
+HWI-EAS443:3:100:1037:526#0/1  
a`\_`\_^`\_a\_\_[UWa]^¥WT¥WZV\_¥ULRTPSO^BBBBBB  
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GCGCTGTCAGTAAGTATGCTAGAGTCCCGTTTTTCGTTTCA  
+HWI-EAS443:3:100:910:540#0/1  
a\_aYaa]^`a]^`Za`\_\_\_\_`]^]ZYW`Z\_]S\_W\_]ZB  
@HWI-EAS443:3:10:433:655#0/1  
ATCCGAATTCTTTTGGTCGCTGTCTGGCTGTCAGTAAGGA  
+HWI-EAS443:3:10:433:655#0/1  
]\_a]b`\_bb]b`aa^U^b`aa`GYaaZ\_\_`P^WWLN[PGL  
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+HWI-EAS443:3:11:834:356#0/1  
a[`aZV^]T[¥YTVU[^bb^UaZ\_G^\_``aaXZa`a\_PFM  
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GCCATCCGAATTCTTTTGGTCGCTGTCTGGCTGTCAGTTA  
+HWI-EAS443:3:13:761:262#0/1  
a]U]\_a^a\_`^[]¥]^`^X¥]V\_YVV\_\_`MZ¥IGO¥GGG  
@HWI-EAS443:3:18:1415:65#0/1  
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+HWI-EAS443:3:18:1415:65#0/1  
T\_[RZXT0Y\_Z¥^W]]N\_VQLP]^`XZGOVTJX^[BBBBBB  
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+HWI-EAS443:3:20:602:76#0/1  
aa`\_aQX`\_`^R[¥`STXW^Q`V^^XXORGVWHTGY]NB  
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+HWI-EAS443:3:23:1063:1615#0/1  
^Y^`^aabb`)\_bb]\_ba[\_[]b`\_abY\_bb\_Ka`¥`]¥D  
@HWI-EAS443:3:24:19:872#0/1  
GGCCATCCGAATTCTTTTGGTCGCTGTCTGGCTGTCAGGA  
+HWI-EAS443:3:24:19:872#0/1  
a]`\_`aaabba^^baaab^Za\_```aa¥`^aaaa^R[XXDW  
@HWI-EAS443:3:35:387:219#0/1  
GAATTCTTTTGGTCGCTGTCTGGCTGTCAGTAAGTATGGC  
+HWI-EAS443:3:35:387:219#0/1  
¥[I[[]Q]\_\_R^Y[\_`\_U¥[IRXVXYBBBBBBBBBBBBBBB  
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+HWI-EAS443:3:42:1342:680#0/1  
I\_\_aUbZWab[\_[[]Wb^Z\_b`bUb\_aK\_]aaYa[U\_ZZGZ  
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+HWI-EAS443:3:48:930:1447#0/1  
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+HWI-EAS443:3:4:1235:1408#0/1  
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+HWI-EAS443:3:52:1505:668#0/1  
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@HWI-EAS443:3:52:369:362#0/1  
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+HWI-EAS443:3:52:369:362#0/1  
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¥baabbbbaabb^)\_baaa]`aZZ[a0¥T`R]¥`S¥]NDP  
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GCTGTCAGTAAGTATGCTAGAGTCCCGTTTTCGTTTCAAC  
+HWI-EAS443:3:60:1032:1341#0/1  
`S]UP`]]`abaP¥¥`Z¥`X`][NH]XNY¥`\_`Q\_\_R]JS  
@HWI-EAS443:3:65:461:1978#0/1  
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+HWI-EAS443:3:65:461:1978#0/1  
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+HWI-EAS443:3:71:720:490#0/1  
a\_bab\_bb`bab^abbb\_\_b]ababaZabbb`abXRO[MW  
@HWI-EAS443:3:72:1452:1600#0/1  
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+HWI-EAS443:3:72:1452:1600#0/1  
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+HWI-EAS443:3:73:715:45#0/1  
a[[aZS^`a\_]\_U`S¥WMUUYUZX]XX^YXYY[SY]VY  
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+HWI-EAS443:3:74:430:1297#0/1  
abaa`baa[[¥b[ba`babb¥`\_aba¥`aa`a[a\_`aa\_  
@HWI-EAS443:3:76:578:735#0/1  
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+HWI-EAS443:3:76:578:735#0/1  
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@HWI-EAS443:3:77:833:276#0/1  
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+HWI-EAS443:3:77:833:276#0/1  
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+HWI-EAS443:3:80:1255:1052#0/1  
aYaaw]¥]RZ]XZ^Ua\_[NY¥GWVUPT^¥]R^VV¥WW¥N  
@HWI-EAS443:3:83:816:343#0/1  
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+HWI-EAS443:3:83:816:343#0/1  
W^`b`bb`^a`]`bbY`U¥\_`^¥`Y^V`¥\_`TZa^W^Z\_\_V  
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+HWI-EAS443:3:94:477:149#0/1  
]`¥]]¥Z\_ba\_a`]aaa\_ba¥aa``aT]]a\_^BBBBBBB  
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+HWI-EAS443:3:96:772:49#0/1  
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@HWI-EAS443:3:100:1224:1530#0/1  
ACGGGACTCTAGCATACTTACTGACAGCCAGACAGCGACG  
+HWI-EAS443:3:100:1224:1530#0/1  
a\_Pa]`S`[baaa`bb\_\_a`\_Tb[YabLU^aaWabNaBBB  
@HWI-EAS443:3:14:447:91#0/1  
CGTGTGGTAATGAAACGAAAACGGGACTCTAGCATACTT  
+HWI-EAS443:3:14:447:91#0/1  
a\_^b`abb\_aa`\_Wba^baaTaa\_aX^\_¥\_^\_a``\_\_aa^  
@HWI-EAS443:3:18:1561:393#0/1  
GTCAGTAAGTATGCTAGAGTCCCGTTTTTCGTTTCATTACA

+HWI-EAS443:3:18:1561:393#0/1  
a`^\_]¥a^a^aa\_X\_^`^[YY^a]^a`Y\_\_VZ^^^UD  
@HWI-EAS443:3:21:785:1964#0/1  
CATGGCCATCCGAATTCTTTTGGTCGCTGTCTGGCTGTCA  
+HWI-EAS443:3:21:785:1964#0/1  
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+HWI-EAS443:3:24:707:1277#0/1  
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+HWI-EAS443:3:24:934:1861#0/1  
ab]`b¥`UZ[]bbaS`]^TJ]Ga^^^`YWW``\_\_aa¥aaG  
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+HWI-EAS443:3:29:566:938#0/1  
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+HWI-EAS443:3:30:931:1291#0/1  
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+HWI-EAS443:3:35:853:1245#0/1  
a^abb`]a\_aW\_^\_N\_X\_a`\_`^[ZzXZX\_a`aaW\_ZWW  
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+HWI-EAS443:3:36:590:981#0/1  
aaUbb`^bbb\_V\_abbaba]`Ubabaa\_b`a\_a]]\_a[[G  
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+HWI-EAS443:3:40:1539:607#0/1  
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+HWI-EAS443:3:43:1341:1041#0/1  
aba`\_`aaa`aaaaabaa¥a^`a`\_][a\_a`\_][UU^¥TZ  
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CGCCATCCGAATTCTTTTGGTCGCTGTCTGGCTGTCTCAGTA  
+HWI-EAS443:3:48:909:530#0/1  
G¥``bab\_¥]`bbabb``b[baabbabbbabababS]SaW\_  
@HWI-EAS443:3:52:613:1198#0/1  
TGGCTGTCTAGTAAGTATGCTAGAGTCCCGTTTTTCGTTTCT  
+HWI-EAS443:3:52:613:1198#0/1  
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`a\_¥`a`]^`a\_\_`^a`\_[[W[¥\_aVZ\_`]W^\_OMMXBB  
@HWI-EAS443:3:59:471:941#0/1  
CGTGTGGTAATGAAACGAAAACGGGACTCTAGCATACTT  
+HWI-EAS443:3:59:471:941#0/1  
ababab]]XZaba`]X]ba``a\_[`\_\_\_a\_\_a\_\_]X\_\_U  
@HWI-EAS443:3:5:187:516#0/1  
ATGAAACGAAAACGGGACTCTAGCATACTTACTGACAGCA  
+HWI-EAS443:3:5:187:516#0/1  
a``abb`b`a\_]aaa\_`aa^]Y[`aa\_a\_a^`a`^aa\_F  
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+HWI-EAS443:3:60:703:1508#0/1  
aaa^^`ab``a````aaaaa][[``]^a\_Z\_^\_X¥USUW  
@HWI-EAS443:3:61:1012:1934#0/1  
CTGGCTGTCAGTAAGTATGCTAGAGTCCCGTTTTCGTTTG  
+HWI-EAS443:3:61:1012:1934#0/1  
[[XU¥a¥NP][ZS`\_I`\_]\_ZW\_``^^[`ba`]`a\_MOQ]ZD  
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GTGGTAATGAAACGAAAACGGGACTCTAGCATACTTACTG  
+HWI-EAS443:3:61:862:1189#0/1  
aN\_¥Q[XWZ^]V]\_Y\_[T]Z[TF¥R^UVWVXVUVXXYVVX  
@HWI-EAS443:3:63:1023:1515#0/1  
CGTTGGTAATGAAACGAAAACGGGACTCTAGCATACTTAC  
+HWI-EAS443:3:63:1023:1515#0/1  
`a[b[a\_a[a]Iab\_ab`\_]¥ba`[\_^[[aaU`\_[`aS`a  
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TGGCTGTCAGTAAGTATGCTAGAGTCCCGTTTTCGTTTCG  
+HWI-EAS443:3:63:1349:1201#0/1  
a`````Z[\_\_\_Y\_\_^W]]¥ZZ]^\_^V^^¥VS[\_`NZZ^]WN  
@HWI-EAS443:3:64:517:138#0/1  
TGCTGTCAGTAAGTATGCTAGAGTCCCGTTTTCGTTTCAT  
+HWI-EAS443:3:64:517:138#0/1  
````\_H^^aa``]P¥^^^W]aa^¥Y`[[JT\_\_Z^TZ[[[\_^  
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GGGACTCTAGCATACTTACTGACAGCCAGACAGCGACCA
+HWI-EAS443:3:65:1528:1336#0/1
a^¥aa`baaaaaa_aa`a_aaaV`a_`````_``[^`VZ[
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+HWI-EAS443:3:65:822:885#0/1
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@HWI-EAS443:3:68:47:1643#0/1
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+HWI-EAS443:3:68:47:1643#0/1
`b]a_]_b_a¥][`V^S[T]_UNUWITPXNUZUZa][PXW
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+HWI-EAS443:3:69:1375:94#0/1
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H_bab`_`baa]_`_bbbb`_Zbabbbb]aXbX_X`b_[M
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+HWI-EAS443:3:84:1256:1915#0/1
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@HWI-EAS443:3:90:1737:795#0/1
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OV^H¥YU[___¥Y___`Z_W¥QR_aa_RU[MFN^^ZFKZ]B
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+HWI-EAS443:3:97:476:1390#0/1
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+HWI-EAS443:3:100:105:984#0/1
abb]`]^aaaa_a`___`^^ZRV`____]Y_`] `]`^^`
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`_aa_^bb^`b`b[aa]_Z_Y[a]_a`¥a`¥`THRYaB

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+HWI-EAS443:3:100:328:177#0/1
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+HWI-EAS443:3:100:537:1398#0/1
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^_a]_Z_a__a__Za¥ZLYUTaWW]ZJZX]TX]aZZTUBB
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+HWI-EAS443:3:10:157:1912#0/1
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¥a\_P\_a`a¥``babaaaba^^]\_^YW`\_`^^`\_a`\_YM]X  
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^¥aabaaa]]ba`]`\_YWZ\_a`\_aa^a[]¥Y`^VV¥`TZ[  
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+HWI-EAS443:3:11:539:642#0/1  
a\_OaaY^`\_a``\_\_\_\_] ]]¥S^\_ZVZU¥] ]]YVRVSSY]U  
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+HWI-EAS443:3:11:748:1885#0/1  
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`\_]`^aVa\_\_^Z]YY\_[^\_\_[X]`\_\_[UW^`[¥¥[U¥\_VD  
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+HWI-EAS443:3:12:80:368#0/1  
a^aaa`a¥a\_`\_a\_^R^^YM¥\_¥VYZV^]YVY]X^XX^U]  
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+HWI-EAS443:3:13:421:1861#0/1  
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+HWI-EAS443:3:13:717:778#0/1  
a]aY\_]HWU\_Y^Y]¥a)`\_Q]^QRFWRS]WVDP\_]XT\_  
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+HWI-EAS443:3:14:1013:1846#0/1  
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+HWI-EAS443:3:14:1521:1141#0/1  
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+HWI-EAS443:3:14:230:760#0/1  
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+HWI-EAS443:3:14:641:860#0/1  
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+HWI-EAS443:3:14:828:138#0/1  
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+HWI-EAS443:3:15:1610:1291#0/1  
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+HWI-EAS443:3:15:451:623#0/1  
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]^aTb¥U` `Z^a` `a^a[RV^a]^aQ[SZ`NRZ^\_^X` ¥B  
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a`] ^aa]aa]\_`\_`aa^W[\_aN¥]\_W\_V^\_Y\_\_R]MW¥¥0

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+HWI-EAS443:3:23:346:764#0/1  
`^`^`^`\_aa`\_`\_aY`\_`V[``]S^W]]^^ZZ^¥ZW¥U  
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+HWI-EAS443:3:25:1148:827#0/1  
abaa\_aaaaaaa^a`\_\_[\_`\_^]\_^\_\_\_\_aa\_\_\_\_`a]\_]`  
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aa`\_aa\_aaa]a`a\_a`a`a^\_`^WaW`a`^aX`\_]¥`]]^  
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+HWI-EAS443:3:30:1243:1663#0/1  
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+HWI-EAS443:3:30:1584:963#0/1  
XS¥Ua^baa^SS`]ba^Y\_a\_N¥bSa]`Z`^`a\_`\_`a`\_  
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+HWI-EAS443:3:30:948:534#0/1  
`\_b`^aaabbabbaa\_```aabaaaaaaaa`ab]^aa`Sa  
@HWI-EAS443:3:31:1277:989#0/1  
GTCGCTGTCTGGCTGTCTAGTAAGTATGCTAGAGTCCCGTT  
+HWI-EAS443:3:31:1277:989#0/1  
a`a`]Y[¥W]^Y]OMJWOVYVOJVVOJVYXFXGUVUUQS  
@HWI-EAS443:3:31:1330:1482#0/1  
ATCCGAATTCTTTTGGTCGCTGTCTGGCTGTCTAGTAAGTA  
+HWI-EAS443:3:31:1330:1482#0/1  
a^]`\_^]]Xa`¥`aa]```¥ZNXX[[VQ\_BBBBBBBBBB  
@HWI-EAS443:3:31:1609:48#0/1  
CTGGCTGTCTAGTAAGTATGCTAGAGTCCCGTTTTCGTTTC  
+HWI-EAS443:3:31:1609:48#0/1  
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TGGTAATGAAACGAAAACGGGACTCTAGCATACTTACTGA  
+HWI-EAS443:3:31:171:1156#0/1  
aba]aaaababaa\_`¥`\_\_^`a`a\_\_\_a]\_``\_`aa\_`

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+HWI-EAS443:3:31:336:767#0/1  
aa¥\_N]UZRaa[RYU][a¥WVJ^ZY]PV\_] [[U¥ZYXN^  
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ATCCGAATTCTTTTGGTCGCTGTCTGGCTGTCAGTAAGTA  
+HWI-EAS443:3:31:341:1374#0/1  
a\_aa]`Y\_\_\_\_[\_\_X^VPa\_`^ZV`Z^¥`] \_UVV¥VSMNTW  
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CATCCGAATTCTTTTGGTCGCTGTCTGGCTGTCAGTAAGT  
+HWI-EAS443:3:31:349:759#0/1  
^`^a\_`Taba```¥¥aa^baab\_a`\_aaa^\_XZNRDR¥YU  
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+HWI-EAS443:3:31:427:879#0/1  
`b`b`aaba`bbba\_`]a]aYa``a\_a`aaaaaaaa\_a^a  
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CGGGACTCTAGCATACTTACTGACAGCCAGACAGCGACCA  
+HWI-EAS443:3:31:430:759#0/1  
V\_\_\_Z\_ab\_[Y¥\_`^```\_¥\_¥aW``\_abaa^]]^]\_`aa`  
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+HWI-EAS443:3:31:549:1558#0/1  
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CTGGCTGTCAGTAAGTATGCTAGAGTCCCGTTTTTCGTTTC  
+HWI-EAS443:3:31:763:1293#0/1  
a``^aab\_^Z]Za[LO]ZY^ZSVYUW^^`\_¥¥\_]X]V\_]T  
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+HWI-EAS443:3:31:795:454#0/1  
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+HWI-EAS443:3:31:878:635#0/1  
¥OWQ^\_a]¥YUZZUXNTKOY]WYSUT[SBBBBBBBBBBBB  
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a¥aaa`a^a[^]a^ZR[GYSYVJXUZYUUYTSJ[¥\_SKT  
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+HWI-EAS443:3:31:915:815#0/1  
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+HWI-EAS443:3:32:1003:1979#0/1  
a]ZabYZ\_`U\_b\_[\_[a`aVZSWUG[XTaY]a\_^[]`]Y  
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+HWI-EAS443:3:32:1313:1405#0/1  
aaaa]a`¥aa\_aa`Y`aa\_a`aa\_]\_``````a`\_\_\_aa\_a  
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+HWI-EAS443:3:32:1642:573#0/1  
`a`¥a[aaaa`aaY^Ua`a`¥a`a^X]]X\_]Z[^\_]aa`a  
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a`¥SZa`aba]aa]^aaaa\_\_a[aaW\_\_`\_Za\_OF TZY[  
@HWI-EAS443:3:32:1738:884#0/1  
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+HWI-EAS443:3:32:1738:884#0/1  
¥¥bZa^Z\_¥]^b]Y¥¥a]aR]\_] [YSYJSa\_UR\_R]^\_B  
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+HWI-EAS443:3:32:245:436#0/1  
¥aaa`^U\_IYY¥`¥¥¥¥a^R[[Q\_Paa¥OGQ\_ZUWGWZ^]  
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+HWI-EAS443:3:32:566:1341#0/1  
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+HWI-EAS443:3:32:637:1091#0/1  
ababaaa`aa^a`\_[aa\_Va]\_[[\_`X^a`R\_¥¥¥U  
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+HWI-EAS443:3:32:769:207#0/1  
a\_¥[¥aa`^aa^`^Waaaa`[^]Z\_aRXVT[BBBBBBBB  
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+HWI-EAS443:3:32:785:1699#0/1  
a`baaW^baaaaaba`aa`aa\_]\_\_^\_\_`^`a`\_S]aa\_

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+HWI-EAS443:3:32:864:1739#0/1  
Y[`Y[QX\_\_aaaaa\_\_\_ZaaaY^^Za`\_^a`a\_^``\_^`  
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+HWI-EAS443:3:33:1180:1144#0/1  
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+HWI-EAS443:3:33:124:879#0/1  
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+HWI-EAS443:3:33:283:2012#0/1  
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a]TX`W¥P^¥`W[XOJUPP^¥TNVVPNV[QFWYXHNQYW  
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+HWI-EAS443:3:33:709:1208#0/1  
aabaaabbaaab`^a\_\_Z]\_ZZ][]a`Z¥RWR^]Z[]^\_  
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+HWI-EAS443:3:33:752:1701#0/1  
`\_\_baaXa`aR^a\_Ha`Y`\_ZZXZXP\_[FZ^YNVTY]W¥  
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aaa`baa`¥b`a\_a`Z`Y\_Saa`T\_[]^ZXU[^UVYZ[  
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+HWI-EAS443:3:34:1064:1720#0/1  
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+HWI-EAS443:3:34:1095:1291#0/1  
aaaSa`¥]a[a`\_]aa`a`Y^a¥a\_]`^`\_]`^^^]\_  
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+HWI-EAS443:3:34:1361:242#0/1  
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+HWI-EAS443:3:34:163:455#0/1  
ab`b^a^aPaaa[aaaaaa¥`Z`a`a]^\_`^`]^`^`¥]\_^  
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aabaa\_baaaaa\_ba\_U\_a`UaZX¥¥\_\_`¥U^[¥¥V^\_¥  
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GGCCATCCGAATTCTTTTGGTCGCTGTCTGGCTGTCAGTA  
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a^[ababbbWS[`a`aaaaSaa`\_]YX[ ]`\_\_\_Y`YYWU  
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+HWI-EAS443:3:34:497:296#0/1  
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+HWI-EAS443:3:34:551:1669#0/1  
aa`^aaa^a`aaa\_]`]a`a\_]`\_`^`\_\_\_¥`\_\_\_`Z^Z`  
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`]\_a`Y`]^^a^^X[\_]]``[¥aYQ]YZ`ZVNYVVBBBB  
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a`Vaa]aa\_X^^RYaa¥\_\_`Q[[\_WZ^VR]QUQYURRXVW  
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+HWI-EAS443:3:34:881:1324#0/1  
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+HWI-EAS443:3:34:934:1349#0/1  
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+HWI-EAS443:3:35:112:298#0/1  
WW`aaWQ\_`a\_ZZ``a¥^bbb\_a[aa]X\_ZU[a]YJXH[T  
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AGTAAGTATGCTAGAGTCCCGTTTTTCGTTTCATTACCAAC  
+HWI-EAS443:3:35:1466:1046#0/1  
^¥X\_T\_W]]`\_`\_¥¥aZZ`\_OZ][Y[DH\_ba^a\_]V]N`



@HWI-EAS443:3:35:1473:880#0/1  
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a\_Z¥b^aaaaaa¥``aaaaZ\_`\_\_[ZZaa\_ [[]NTR]L¥  
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+HWI-EAS443:3:35:1614:389#0/1  
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+HWI-EAS443:3:35:1635:1157#0/1  
``^``abbba`b`[^aa`\_¥a]U\_\_^FDL]H^Y^¥` `aV[  
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+HWI-EAS443:3:35:1660:352#0/1  
``\_a\_aaaaaaa`¥\_\_\_`\_V\_\_`^\_¥`Uaaaaaa^V^`R^  
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+HWI-EAS443:3:35:50:949#0/1  
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+HWI-EAS443:3:35:922:588#0/1  
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+HWI-EAS443:3:36:1421:1465#0/1  
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+HWI-EAS443:3:36:1455:747#0/1  
abb\_`\_a``aa```\_`a`a`a`\_a[a`\_`aa^]``aa`a¥  
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+HWI-EAS443:3:36:1483:786#0/1  
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+HWI-EAS443:3:36:491:504#0/1  
a]\_a`VT¥aaZ`\_a^]Q`\_^`\_\_\_^`Y[\_\_\_^Y^]\_Ya]V  
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+HWI-EAS443:3:36:714:1110#0/1  
abaZa^\_ba`baa`^a\_aaX]^`a]^a\_\_a\_\_\_\_\_aa\_^a  
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CAGTAAGTATGCTAGAGTCCCGTTTTTCGTTTCATTACCAA  
+HWI-EAS443:3:36:822:1287#0/1  
aa]J]^`aYaa`a\_\_]\_a]^`\_aaT\_^`\_\_\_X^YW`\_Y\_[Z^[  
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+HWI-EAS443:3:36:869:1086#0/1  
`X`b`\_[baababaa]a\_\_aaa`Z`^`\_\_\_¥^[¥]VU\_YR  
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+HWI-EAS443:3:36:969:723#0/1  
aaba`]^abaaba`^aXa`aaa\_aaaa\_a\_aa`]aaa^a`  
@HWI-EAS443:3:37:1026:346#0/1  
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+HWI-EAS443:3:37:1026:346#0/1  
abaXYa\_]`\_a\_\_\_^`\_^^a\_^^Z\_\_\_^^]Y[][\_]`^^Z  
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aa`Z`[J^[baaaaaa\_\_`aa[aY`aH\_H[aaZ\_ZMSVG  
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+HWI-EAS443:3:37:1576:1419#0/1  
Z\_¥aSS¥a`bb^`[¥^^]`X`aa\_^Z[H[W`]Y\_\_V  
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+HWI-EAS443:3:37:213:2038#0/1  
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+HWI-EAS443:3:37:237:1932#0/1  
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+HWI-EAS443:3:37:421:1568#0/1  
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+HWI-EAS443:3:37:606:752#0/1  
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^\_Zaa¥^bbb\_\_aaba\_\`^\_b]`[\`^`Xb^[Q`]]Q\_[OF  
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+HWI-EAS443:3:39:1229:221#0/1  
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+HWI-EAS443:3:39:1274:1591#0/1  
a^\_Z`[X\_aaa`Z\_a\_\_[\_^`\_^^`\_[\_a]YX)``\_ ]^]  
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a` `` ` bbbbabaaa`bb\_aa`a`^aa^a¥^QSR[]]V¥[V  
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a` [\_`ab¥a]b[\_a]aQ\_a\_` \_\_\_\_\_^ [OVU[VY[¥OBB  
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+HWI-EAS443:3:3:1699:1048#0/1  
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+HWI-EAS443:3:3:1724:524#0/1  
abaW^^` [ ` ]Z[¥R` ]`XITS¥\_\_^a^]]S`ZGZR\_^]¥]  
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+HWI-EAS443:3:3:670:982#0/1  
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+HWI-EAS443:3:40:1253:1073#0/1  
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+HWI-EAS443:3:42:1068:794#0/1  
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+HWI-EAS443:3:43:269:1329#0/1  
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+HWI-EAS443:3:43:610:1709#0/1  
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+HWI-EAS443:3:44:1738:1290#0/1  
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+HWI-EAS443:3:44:395:1035#0/1  
X¥]]`\_MT`\_T^`aa`Y\_]^^a]\_aJ\_a[U]Y`ZX¥¥`XV  
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¥X\_Y¥Z[¥\_YUX¥V^YV[OTTPX]MS]¥RZR\_`^^TXTOF  
@HWI-EAS443:3:45:1298:1239#0/1  
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+HWI-EAS443:3:45:1298:1239#0/1  
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+HWI-EAS443:3:45:1377:1808#0/1  
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+HWI-EAS443:3:45:1660:418#0/1  
^SY\_¥F¥\_\_UT`]¥a¥\_R[\_NZ\_\_WaYZ]YRV^YY]]\_X\_  
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+HWI-EAS443:3:45:309:1184#0/1  
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+HWI-EAS443:3:45:477:1496#0/1  
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+HWI-EAS443:3:45:559:379#0/1  
aaaa^aa^]Xaa\_\_a^`a\_\_aY\_]`\_`]Z`\_¥^\_X  
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+HWI-EAS443:3:45:567:1684#0/1  
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+HWI-EAS443:3:46:1002:1086#0/1  
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+HWI-EAS443:3:46:1219:1523#0/1  
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+HWI-EAS443:3:46:1282:1881#0/1  
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`bZQa`Y`\_\_[aY`[aa\_a¥`RT¥\_\_]¥US^¥\_aN^[HU¥  
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a`\_\_`\_a\_U]a`\_¥Y\_GY[[ZV\_\_UYRPS]QWV]GQTTXFW  
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+HWI-EAS443:3:46:285:331#0/1  
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+HWI-EAS443:3:46:331:1599#0/1  
a\_aS`¥Q\_¥ba`[`]W\_]W`a\_`[]]S^`[Z[`a\_a\_[]  
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+HWI-EAS443:3:46:520:716#0/1  
¥QU]`PYa[RWY^X]V^aXSXZTNRWLS¥T¥ZNZS¥\_[ZS  
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+HWI-EAS443:3:46:59:2041#0/1  
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+HWI-EAS443:3:47:1142:1165#0/1
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+HWI-EAS443:3:47:126:332#0/1
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+HWI-EAS443:3:47:1391:678#0/1
abba[^aab`aa__a`Y_]`_¥^V]R]X_Y[`_V^`^Y__
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+HWI-EAS443:3:47:302:582#0/1
aa`aab^ab`[^a¥__aW_^XX]^`^¥SY¥_aZ^`^YVU_
@HWI-EAS443:3:47:336:1193#0/1
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+HWI-EAS443:3:47:336:1193#0/1
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+HWI-EAS443:3:48:1712:797#0/1
a_`a^`^¥R¥]]^]GQJ[Q\$¥ZOQVQNRYSMBBBBBBB
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aaa`]_aaa`aa`aa_`aa_`^^a_Y_aa^[]^GJXYLR
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+HWI-EAS443:3:49:1259:371#0/1
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+HWI-EAS443:3:49:1643:1918#0/1
aa^`aaaa`_`_a^aa^PY¥VY^ZW[UUVU]]^[^RVQY^N
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+HWI-EAS443:3:49:1780:2030#0/1
a_UI¥a^UX_]X^_T_ba`YZ0[a`UT_]ZUZUVZ[ZBB
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+HWI-EAS443:3:49:866:749#0/1
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+HWI-EAS443:3:4:1423:1003#0/1
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a`b^a`^Z````^`^^`aT¥_[Z`Z_[¥`YJW_XSS^[W_
@HWI-EAS443:3:4:1553:470#0/1
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__ZQ_`a`WY_aXV^_R[_SFU[¥MZ_¥XXYPUY^U[[B
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a`babb_aab_aa`]aaa`aa]^b^abZ]]a^U_aPMUBB
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aa]`_aa[Y[a_^`_]`PYG[_YV^RTUW¥SYYUX¥¥[O^
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+HWI-EAS443:3:50:1597:30#0/1
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a`baab]bZ_U_a_V_LQYZa^^]¥¥U]_U]bb¥]V`_^
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¥¥a_^¥]b_¥_X]`_`IZ`Qb]Ra^PWa[[NP[ZPTZNNB
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+HWI-EAS443:3:51:1073:582#0/1
aa`^_aa[Y¥]aba`aU`aa]S_Y^Zaa¥QZ^aXQX```]

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+HWI-EAS443:3:51:1245:666#0/1
aaab`babaaab_aaaa`a_a_`Yq]aaa^`Vaa]_`_
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+HWI-EAS443:3:51:1293:626#0/1
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+HWI-EAS443:3:51:1409:840#0/1
a_`_]a]_baY_]W[V]S^XVZX___¥[[[Ya[_`aZVW_
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+HWI-EAS443:3:51:1478:1887#0/1
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+HWI-EAS443:3:51:26:998#0/1
a`aa^a^aR_`aY_]__`¥__ZU_X^_R[___Y^Y]_WW[^
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+HWI-EAS443:3:51:570:1004#0/1
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+HWI-EAS443:3:52:1074:415#0/1
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+HWI-EAS443:3:52:1158:1756#0/1
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@HWI-EAS443:3:52:1237:1220#0/1
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a_b__bb^aa_ba`bbabb[[^aa_bRU]bbaab^[]ZZV
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+HWI-EAS443:3:52:1552:770#0/1
aa]XNX_`_aa`ab`WQ¥[_U`a`^^`¥Z[[]__Z^[YZ^
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GACTCTAGCATACTTACTGACAGCCAGACAGCGACCAAAA
+HWI-EAS443:3:52:184:1460#0/1
W_a¥b`aaYH_VXQ_W¥_Q_[]b¥PW`b]a¥a`YU¥UZa_
@HWI-EAS443:3:52:298:1609#0/1
TCGCTGTCTGGCTGTCAGTAAGTATGCTAGAGTCCCGTTT
+HWI-EAS443:3:52:298:1609#0/1
abaaaaa_a`^aa____aUV][S_^Z[]PTTYS¥_^[R_`
@HWI-EAS443:3:52:312:1642#0/1
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+HWI-EAS443:3:52:312:1642#0/1
abb`_aababaa`aaaaabaaaa^a[[]_aaaa`[]`a
@HWI-EAS443:3:52:422:1726#0/1
GTTGGTAATGAAACGAAAACGGGACTCTAGCATACTTACT
+HWI-EAS443:3:52:422:1726#0/1
a_ab_Zaaaa¥_baa`a``aaa____`a`^`____aaa^^
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+HWI-EAS443:3:52:706:319#0/1
P¥aX]a`^Y]^aa]bb_UTN^_P[UTMTBBBBBBBBB
@HWI-EAS443:3:52:860:1272#0/1
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+HWI-EAS443:3:52:860:1272#0/1
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+HWI-EAS443:3:52:94:1000#0/1
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@HWI-EAS443:3:53:1073:1717#0/1
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+HWI-EAS443:3:53:1073:1717#0/1
a`b`aaa`a`aaa_aaa[```Tba_``a____`aN¥a¥a`
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GCTGTCTAGTAAGTATGCTAGAGTCCCGTTTTTCGTTTCATT
+HWI-EAS443:3:53:123:1403#0/1
`_U_Z__WR]^aUWWXX[T]R[N_^]aVV^ZPYOZ[YY[U
@HWI-EAS443:3:53:176:1058#0/1
CAGTAAGTATGCTAGAGTCCCGTTTTTCGTTTCATTACCAA
+HWI-EAS443:3:53:176:1058#0/1
aaY^`a_baa¥`b`a`Saaaaabbbb`ba¥b^ba`^`b

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+HWI-EAS443:3:53:45:195#0/1
aa_[`aaV`Za_]¥`_]`¥^¥^_Z[W[[W_N]_]N]UX_M
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ATCCGAATTCTTTTGGTCGCTGTCTGGCTGTCAGTAAGTA
+HWI-EAS443:3:53:485:679#0/1
aa[abaaaaabaaba^aa_a`__`a__aaSS¥G]_[U]
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aa`abV¥R`KaH_¥XV^ZaQZ^_Q[XaX__G]_`X[X^N
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+HWI-EAS443:3:53:676:1740#0/1
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@HWI-EAS443:3:53:815:369#0/1
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+HWI-EAS443:3:53:815:369#0/1
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@HWI-EAS443:3:53:819:168#0/1
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@HWI-EAS443:3:54:1549:457#0/1
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+HWI-EAS443:3:54:1549:457#0/1
a`^`aa`a¥¥a^ba`^a]¥_a`abb`__bb^_aa_XY^`
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CGAATTCTTTTGGTCGCTGTCTGGCTGTCAGTAAGTATGC
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aa`_abaa^abbZ`b_aa_`aaa`aa[WUaN[I[G^PV]
@HWI-EAS443:3:54:533:434#0/1
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+HWI-EAS443:3:54:533:434#0/1
aaZS_b_] [U]^¥HV`baZ`VUa¥Z`__^a`^[]][TZ_
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+HWI-EAS443:3:54:562:749#0/1
ab`¥aabb`aa_a`aa``aaa^`_`a_a_`a`^`aa^`a^
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+HWI-EAS443:3:54:655:950#0/1
a`aaa`_aX_a`V[`a_XZ_Ya¥a]`_V]``S`0^_]YV]
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+HWI-EAS443:3:54:895:408#0/1
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+HWI-EAS443:3:54:903:344#0/1
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+HWI-EAS443:3:54:939:1451#0/1
aa`a_UV[_H^_Z¥a_[U¥ZYZRUV`_V^b_^`Ra]WZ^
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@HWI-EAS443:3:55:1113:605#0/1
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+HWI-EAS443:3:55:1113:605#0/1
ab]baab]I`b^^`V0¥`_YPTXXHHR`_a^`a_^¥G_ZX
@HWI-EAS443:3:55:366:1430#0/1
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+HWI-EAS443:3:55:366:1430#0/1
^a¥Q`_a_TX_b`b`^`_ZL_a^[^[[[]]X_a[DMP^FVY
@HWI-EAS443:3:55:539:1086#0/1
ATCCGAATTCTTTTGGTCGCTGTCTGGCTGTCAGTAAGTA
+HWI-EAS443:3:55:539:1086#0/1
aaaab^Uaa_a`aa`_]`_`^_aX]]a]____TRW]WX]¥X]
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GGCCATCCGAATTCTTTTGGTCGCTGTCTGGCTGTCAGTA
+HWI-EAS443:3:55:68:345#0/1
abb`babbba_bbaaababa¥a`aab_aaaa`_]`U`_aX`
@HWI-EAS443:3:56:109:1105#0/1
TGGTAATGAAACGAAAACGGGACTCTAGCATACTTACTGA
+HWI-EAS443:3:56:109:1105#0/1
abb^aa_a`^^aa`a`_]`aa_]`aa_a`aa`XYa`a`````
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+HWI-EAS443:3:56:1181:644#0/1
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@HWI-EAS443:3:56:1234:215#0/1
CTTTTGGTCGCTGTCTGGCTGTCAGTAAGTATGCTAGAGT
+HWI-EAS443:3:56:1234:215#0/1
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@HWI-EAS443:3:56:279:840#0/1
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+HWI-EAS443:3:56:279:840#0/1
aa¥`aa^aaaaabaaaaaaZ__````a¥_]`_`_KRVV
@HWI-EAS443:3:56:415:1128#0/1
ATCCGAATTCTTTTGGTCGCTGTCTGGCTGTCAGTAAGTA
+HWI-EAS443:3:56:415:1128#0/1
aaa`^¥U`aaaa_]__a_ZW]^`_`^____NRYZQW[XNY

+HWI-EAS443:3:57:751:941#0/1
` `abbaabbb`ababaaaaaaaa_a_aaa`a`aa`aaaaaa
@HWI-EAS443:3:58:102:318#0/1
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+HWI-EAS443:3:58:102:318#0/1
aaaa_aaaT` `aY` `¥__YRZ`¥` `U[Z_aT__aU[Q]`
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+HWI-EAS443:3:58:1527:334#0/1
aaaab]a`a`_`_]¥`_]`[_[_aWZ^]aQ[aZTTR^a]Y`
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+HWI-EAS443:3:58:1535:2026#0/1
a_ZZa`aaa0a`aa__¥]YW]¥]Z^XY]^_UW]SH]_ROR
@HWI-EAS443:3:58:312:238#0/1
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+HWI-EAS443:3:58:312:238#0/1
aUa_`aa_a_¥R`V____[^¥]_VNZN¥QZWW^TU¥[V¥UU
@HWI-EAS443:3:58:439:1292#0/1
CTGGCTGTCAGTAAGTATGCTAGAGTCCCGTTTTTCGTTTC
+HWI-EAS443:3:58:439:1292#0/1
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+HWI-EAS443:3:58:440:1806#0/1
`aaRTW^¥ba_¥¥]_]a`WY¥_^^]^^H^_^^_Y`W[]^
@HWI-EAS443:3:58:468:686#0/1
GTCGCTGTCTGGCTGTCAGTAAGTATGCTAGAGTCCCGTT
+HWI-EAS443:3:58:468:686#0/1
_abba_a¥`aaa[^][¥H`0[XaV¥X_¥^¥^VaP^_XNDZ
@HWI-EAS443:3:58:573:381#0/1
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+HWI-EAS443:3:58:573:381#0/1
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@HWI-EAS443:3:58:583:404#0/1
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+HWI-EAS443:3:58:583:404#0/1
a_a`¥V`[X[`a]V_[aa[^aU__Y]_a____^]__^^_
@HWI-EAS443:3:58:833:353#0/1
CAGTAAGTATGCTAGAGTCCCGTTTTTCGTTTCATTACCAA
+HWI-EAS443:3:58:833:353#0/1
abbYabbaaab_a`[a`aa_aG]ab`a]b_]¥` `a_^^^
@HWI-EAS443:3:58:997:1223#0/1
AGCATACTTACTGACAGCCAGACAGCGACCAAAGAATTC
+HWI-EAS443:3:58:997:1223#0/1
VaVaa`bbaZa`^]a¥Y` `]`a_ab`[X]R`Z][Y`^aY_]`
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CTGGCTGTCAGTAAGTATGCTAGAGTCCCGTTTTTCGTTTC
+HWI-EAS443:3:59:1435:1743#0/1
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@HWI-EAS443:3:59:206:244#0/1
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+HWI-EAS443:3:59:206:244#0/1
a`_aabbbbaabbaaa`aba[^a`_bZ`_a¥Y¥`JJQ^QN
@HWI-EAS443:3:59:593:1063#0/1
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+HWI-EAS443:3:59:593:1063#0/1
a_a^aa`[]a^a`][^]¥_]R¥U_]WRTQTMYYTTZNV
@HWI-EAS443:3:59:819:1287#0/1
TAAGTATGCTAGAGTCCCGTTTTTCGTTTCATTACCAACAC
+HWI-EAS443:3:59:819:1287#0/1
aa`a]aa]aaaa__^a`b]__aaa^a`a]`^YWW__W
@HWI-EAS443:3:59:823:882#0/1
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+HWI-EAS443:3:59:823:882#0/1
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@HWI-EAS443:3:5:1363:313#0/1
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_a`_bbbb]a_T]ababa[^a^aa]SGXXaaabZLGZBBB
@HWI-EAS443:3:5:1529:1621#0/1
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+HWI-EAS443:3:5:1529:1621#0/1
a`aa`aaa`_aY`¥ba`_`S`a`aaa_0a^`a_X_Y_BB
@HWI-EAS443:3:5:299:213#0/1
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+HWI-EAS443:3:5:299:213#0/1
ab`]bJ^`a[^aaX_[¥`¥SZ][[[Z`_R¥`_W`U]BBBB
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+HWI-EAS443:3:5:300:1050#0/1
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+HWI-EAS443:3:5:319:1377#0/1
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CTGTCAGTAAGTATGCTAGAGTCCCGTTTTTCGTTTCATTA
+HWI-EAS443:3:5:931:385#0/1
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@HWI-EAS443:3:60:1517:1295#0/1
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+HWI-EAS443:3:60:1517:1295#0/1
a]aaa__VYFZ_¥N]`[X_N¥V^S[]]PL^_^RZU[WRV]
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@HWI-EAS443:3:60:251:1427#0/1
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+HWI-EAS443:3:60:251:1427#0/1
Z)`^a_]ab`a¥a`Y][Z_`aaVZ^aa_[`VWZYQ[¥PSQ
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+HWI-EAS443:3:60:352:2024#0/1
abbYaaY]aZa]Ga_aY`_`¥X_aU_X^R[HU__¥WZZ
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+HWI-EAS443:3:60:463:1237#0/1
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@HWI-EAS443:3:60:767:1288#0/1
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+HWI-EAS443:3:60:767:1288#0/1
aa_bbaaa_aa_a]a_^_a_]`__U_^_W^ZTZV]S]_X
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+HWI-EAS443:3:61:1173:818#0/1
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+HWI-EAS443:3:61:132:1920#0/1
aaab]_`Y^]]a_Z^]¥`_`_Va`^¥]YTNTVUQQSLTNS
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+HWI-EAS443:3:61:1427:419#0/1
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@HWI-EAS443:3:61:1508:1248#0/1
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+HWI-EAS443:3:61:1508:1248#0/1
aa[Z^a_aX_a]Z^`a¥_S]0`)_RX__L[Y^Y]RUWYU
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+HWI-EAS443:3:61:1588:1449#0/1
a`__a_^aT`^_^_a`__`aaa`a`^XY_YY^^XY]YY
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+HWI-EAS443:3:61:167:1970#0/1
`abb`aaaababa`_`XTaaba`a_¥^_a_`_`XY_]¥]YX

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@HWI-EAS443:3:61:48:1351#0/1
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+HWI-EAS443:3:61:48:1351#0/1
aaba`aaba``a`]^a__N[S[IMFYRQ[ZTXUZTRGRSW
@HWI-EAS443:3:61:777:774#0/1
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+HWI-EAS443:3:61:777:774#0/1
a[aa_Q`_XM¥Z`U[V[___[R[W[¥YX]YY]Y]ZZZZ
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+HWI-EAS443:3:61:997:427#0/1
`_baaS``b`b`[^aaZa^^aa]X`¥`^a^^a[VMMRP
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+HWI-EAS443:3:62:1384:1342#0/1
aaaababaabba``a[_a¥`baaaa`_aaaa`aa_aaa_a
@HWI-EAS443:3:62:1475:1048#0/1
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+HWI-EAS443:3:62:1475:1048#0/1
aa]a]Za^Q¥aa`ab¥`aa¥a`a``X^^^`^]Z[_]X]
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@HWI-EAS443:3:62:1734:832#0/1
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+HWI-EAS443:3:62:1734:832#0/1
aa^`^a^]`Z^Y[_]___Z¥aa_[¥YY]_`][ZXUBBB
@HWI-EAS443:3:62:541:516#0/1
CGCTGTCTGGCTGTCAGTAAGTATGCTAGAGTCCCGTTTT
+HWI-EAS443:3:62:541:516#0/1
abb`babbabaaba`XaY`baTa`Q¥¥`___]`_X```
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@HWI-EAS443:3:62:760:718#0/1
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+HWI-EAS443:3:62:760:718#0/1
]G]W`Y]`WQUT[¥UX]¥]b[TaXZaT[Z]`BBBBBBBBB
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@HWI-EAS443:3:62:778:1173#0/1
GTCGCTGTCTGGCTGTCAGTAAGTATGCTAGAGTCCCGTT

+HWI-EAS443:3:62:778:1173#0/1
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@HWI-EAS443:3:62:831:73#0/1
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+HWI-EAS443:3:62:831:73#0/1
ab]baba_aaa^aaaaaaaa`aa[ZaaZ^`aa¥¥_Va___
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+HWI-EAS443:3:63:1060:264#0/1
aaaa_baaaaabaaaaa_aa_ab]aaa__a`_]aS_Z]U
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+HWI-EAS443:3:63:1652:756#0/1
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@HWI-EAS443:3:63:652:1134#0/1
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+HWI-EAS443:3:63:652:1134#0/1
abbabbb^`ZYZ_]^[a^¥^]]][S`^aaY_a_Y_Va]Z
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+HWI-EAS443:3:63:76:303#0/1
¥ZW`W]aabbaaa`¥QUY]]`aaZR]_a`[R_``QL
@HWI-EAS443:3:63:805:330#0/1
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+HWI-EAS443:3:63:805:330#0/1
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+HWI-EAS443:3:63:892:1213#0/1
a_¥¥`_¥VZ]][^][Z]VY]T^]V]Z[[RX_]UWBBBB
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+HWI-EAS443:3:64:1255:708#0/1
Q_¥`[¥¥_V]a¥^QZ_U^`_WU_aa`]GVW]PS_b`]aab
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+HWI-EAS443:3:64:1510:1397#0/1
V_T]_Q_¥¥XZ__`_bb`¥]^XQ]WTb`WIZ`_YXR`XX
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+HWI-EAS443:3:64:1580:977#0/1
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@HWI-EAS443:3:64:1581:1087#0/1
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+HWI-EAS443:3:64:1581:1087#0/1
`ab[K¥`]a`aX`^VU`_`a^aY][aWV]a]]``ZHba

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ab]_aaa]ba`aa_a`aaaa^Wa_`a[[a_]^^`SPZYNT
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+HWI-EAS443:3:64:1639:735#0/1
^a^`ab_ba`aa]aaba``ababbaaaa`¥aabWab¥a`^
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+HWI-EAS443:3:64:1657:790#0/1
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+HWI-EAS443:3:64:1729:71#0/1
aa_`aa`aa[___a_`_aY_¥[[^_`YQRNV[`Z[`_TUT_
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+HWI-EAS443:3:64:311:553#0/1
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+HWI-EAS443:3:64:375:1981#0/1
a`_`aaa[aZYPYU^W`_YG]]U¥BBBBBBBBBBBBBBBBB
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a__`a_a_^_¥]_¥ZZT¥X¥SYURN¥WUJOSUT[] [MSU
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+HWI-EAS443:3:65:1025:1553#0/1
a_¥_a`_HY[UDS¥WV[M[[ZZ[P[SJZ_XDT^VQUV[VJ
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+HWI-EAS443:3:65:1095:1024#0/1
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+HWI-EAS443:3:65:1375:1112#0/1
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+HWI-EAS443:3:65:1573:881#0/1
a`a_bb]V]^aa`_`a`___Ua`_^W^^]^_W`][^^]
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+HWI-EAS443:3:65:845:462#0/1
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+HWI-EAS443:3:65:895:1625#0/1
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+HWI-EAS443:3:66:1131:1420#0/1
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+HWI-EAS443:3:66:1248:1383#0/1
^D¥WZ_]_¥]_PW_V[Z]S_ZYX][UBBBBBBBBBBBBB
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+HWI-EAS443:3:66:1288:984#0/1
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+HWI-EAS443:3:66:1313:273#0/1
`_aaaQa_aaaaa`a`UU]]`___Y`__][_]_¥__^X^
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+HWI-EAS443:3:66:1323:362#0/1
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+HWI-EAS443:3:66:298:271#0/1
aaaa`a`aaa`a^^^]V[^U`V^_^_] [Q[]^^UW^]
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+HWI-EAS443:3:66:344:622#0/1
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+HWI-EAS443:3:66:630:650#0/1
aaaa```aa``aaaaX`]`aaZ````_]HWUWY]__N^
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a_Ya]_ZZaa`baaa`` [aaaa`a^aa``aX_T¥R[^TR
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+HWI-EAS443:3:66:990:1273#0/1
abbbabb`Y_W_Z`a^]_T_]a`]^`P]^a]¥`a`NYZa`
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abbaaaa_baaaaaaa_`¥S¥__a¥` `]_Y_ [`W] [L^W
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+HWI-EAS443:3:67:1019:621#0/1
aba^aa^_Y_aa`aaa`aaa_a_a^`aZ` `a^a^` ` [^a_
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+HWI-EAS443:3:67:1096:1248#0/1
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+HWI-EAS443:3:67:1269:1510#0/1
aaaba^a__Yaa__a`aaVaa^a`baa_^Ua^^_PO[S_^
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+HWI-EAS443:3:67:1289:1514#0/1
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+HWI-EAS443:3:67:1431:1075#0/1
a^)^`^_a[Zb_aa_X_a____a^`aa^)`a`U`a_a
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+HWI-EAS443:3:67:1469:1084#0/1
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^`abbababb_aa]`ab[a]a^b]`baTab`ab^b`a]aa
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+HWI-EAS443:3:67:1692:730#0/1
a)`_Y[___`]¥aaX]Z_^V`¥¥¥^_XZ][P_Z¥Z`W`V[
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+HWI-EAS443:3:67:268:1390#0/1
aa^_aabZ`_][`_abaaaa`_aaaa]___`^aN`_a_^¥`
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abbaaa`a`_`a¥`a`^_aY[___Ta`_`_a_a^aa`^a`^`
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+HWI-EAS443:3:67:910:1872#0/1
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]Ja``[SaaW_aaaV`_a__[a_aaaZa_^`a_^`_Ya¥
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@HWI-EAS443:3:68:1681:752#0/1
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+HWI-EAS443:3:68:1681:752#0/1
a_bJaab¥_aaa`aa[SY``_T``_``^`_``^`Z^^]__
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+HWI-EAS443:3:68:191:1806#0/1
a]b][`_^_b¥]_bbba_abab`^[\`a`a_a_aa`a[^`a
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+HWI-EAS443:3:68:339:606#0/1
ab^aaa]^a_a`aaaa`_``__Y_____a`_]_^__
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¥YX`]W_Z`¥b_ba^__^`b_]aba^^`aaZ`_`aaVU]
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+HWI-EAS443:3:68:871:293#0/1
```a`¥I^aa\_Z]W^UZ^\_\_Z\_¥LUSZ[TX\_^YXG¥ZT  
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+HWI-EAS443:3:68:981:1059#0/1  
]````\_bbZ\_\_`a^`\_``\_`a]a^`]Z^a^dWWS`a]aaa  
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+HWI-EAS443:3:69:1007:1306#0/1  
YM\_aa`a\_aaaaa^a``]aa\_Ua]\_aa`a\_\_T\_\_``]]\_[  
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aa\_aaa]T^\_\_a\_aa`\_Y`aX]a¥\_\_^[W[]YSPSSVBB  
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+HWI-EAS443:3:69:1129:208#0/1  
a`bbbaaaa\_aaa\_bbbbb`a`aabaaba\_a`TV^YT¥\_  
@HWI-EAS443:3:69:141:373#0/1  
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+HWI-EAS443:3:69:141:373#0/1  
aaaa\_`Za]a\_aZ`\_a\_`^[]X`\_`P]^UVZ]]^^^  
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+HWI-EAS443:3:69:1544:1896#0/1  
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+HWI-EAS443:3:69:25:685#0/1  
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+HWI-EAS443:3:69:299:1526#0/1  
ab\_`bbbaaaaaa\_\_^`a\_`\_a`a`\_\_`\_\_`^`\_`\_¥\_  
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^aab¥M]ba`aabbabaabbYa`aab\_`]\_a\_`\_\_`aab\_  
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+HWI-EAS443:3:69:505:854#0/1  
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+HWI-EAS443:3:69:548:1553#0/1  
a`a\_aaaa`aa`aa`]RY```\_a¥```\_\_``a\_\_`\_\_`^\_  
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\_Na`a[a]WS`\_`^`]\_\_P¥W[[a[YP[\_a\_\_\_\_]\_¥YVKP  
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a`b`b`]Y¥\_R]^W]a^`ZaXaaa`[`[[\_^^\_]`XL]  
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+HWI-EAS443:3:6:134:988#0/1  
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+HWI-EAS443:3:71:183:386#0/1  
¥\_0\_`a` `baaa\_\_`^b\_^\_X\_] `aa\_a]Z]a^aSZ][F  
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+HWI-EAS443:3:71:323:2002#0/1  
`\_[P[ `^¥\_a` [] `¥ZX^^W]\_\_^Z¥Z]WZ^X[\_^UPWYY



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+HWI-EAS443:3:71:955:1470#0/1  
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+HWI-EAS443:3:73:912:1433#0/1  
\_^G^X`T`\_`^`XR^T0\_YV\_]VVVT]ZUO[\_a[LV`U`  
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+HWI-EAS443:3:74:144:1737#0/1  
ab^aaa\_baa¥a\_\_ZaY^X^YU¥\_ZG^^TTY\_W\_`aZR]^

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a\_\_a[Z\_¥aaaa`a\_\_`\_a[\_[[^`^\_W`^`\_`^]\_`]^  
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+HWI-EAS443:3:75:97:1543#0/1  
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+HWI-EAS443:3:76:1462:175#0/1  
aa¥a¥\_aaU^\_\_`[¥`P`^[^`¥^¥Z¥W¥VWV¥T¥¥UUWW  
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+HWI-EAS443:3:76:1662:229#0/1  
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+HWI-EAS443:3:76:623:1955#0/1  
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+HWI-EAS443:3:76:702:730#0/1  
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+HWI-EAS443:3:76:888:151#0/1  
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+HWI-EAS443:3:76:914:1303#0/1  
a`b^ab¥b`aaaa`aa\_`¥`a\_\_aa`aa\_\_a`\_Y`a\_  
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+HWI-EAS443:3:76:939:1920#0/1  
a\_[SJ\_a]b`\_0¥abbbb`\_Qa[\_¥\_0¥`\_`a^P`a`¥  
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GCTGTCAGTAAGTATGCTAGAGTCCCGTTTTTCGTTTCATT  
+HWI-EAS443:3:77:1354:1294#0/1  
abbb`\_V`\_]a`Z]`[\_¥Q\_QZQZ¥P`\_]`aZLZOZ\_`^`aa  
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+HWI-EAS443:3:77:252:1054#0/1  
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AAAACGGGACTCTAGCATACTTACTGACAGCCAGACAGCG  
+HWI-EAS443:3:77:267:115#0/1  
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+HWI-EAS443:3:77:293:1050#0/1  
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+HWI-EAS443:3:77:308:1852#0/1  
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+HWI-EAS443:3:77:411:1582#0/1  
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+HWI-EAS443:3:77:511:138#0/1  
aaaa```aa`a`^^a`aa`\_`a``\_\_\_[\_\_¥^\_T\_¥[T  
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+HWI-EAS443:3:78:1580:1846#0/1  
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+HWI-EAS443:3:78:1660:1583#0/1  
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+HWI-EAS443:3:78:1751:1599#0/1  
aa^^]aa]`\_TbYa`a][a`¥Yaa\_VQ¥\_a]aa\_X\_[Y\_  
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+HWI-EAS443:3:78:211:1375#0/1  
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+HWI-EAS443:3:78:441:619#0/1  
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+HWI-EAS443:3:78:480:193#0/1  
aaaY\_^aa\_\_a`\_]a\_a^`\_\_Y^^]V]V\_]ZVYP[^^W^  
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+HWI-EAS443:3:78:501:1331#0/1  
SX[b]aa`^\_a`[ba][^aa`a`a`aaaa\_baY¥aa^`]  
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+HWI-EAS443:3:78:591:1664#0/1  
a\_G]^^`bbb]¥^a^a^[T¥\_a[a]a\_aaXU`\_a`ZX¥U  
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+HWI-EAS443:3:78:649:989#0/1  
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+HWI-EAS443:3:78:680:1310#0/1  
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a`aaa\_aaaaaaab\_a`aa`]\_\_a\_\_a`\_aaa]a``^`  
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+HWI-EAS443:3:79:1660:457#0/1  
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+HWI-EAS443:3:79:496:1356#0/1  
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+HWI-EAS443:3:79:512:127#0/1  
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+HWI-EAS443:3:79:620:719#0/1  
OPZa\_\_`R\_\_\_ZV\_\_WW[V[R\_¥aa^ab\_]YX]^¥Y¥NQZ  
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+HWI-EAS443:3:79:988:926#0/1  
^aa¥\_bbU\_\_a\_ba]S[\_``[XX[a\_\_b]\_``aa\_aUaaZ  
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+HWI-EAS443:3:7:129:405#0/1  
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+HWI-EAS443:3:7:1464:1846#0/1  
^a^Wa\_aa¥a`Qa^\_\_[\_R^]]Z¥\_\_\_\_\_]\_^\_`^`



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+HWI-EAS443:3:7:47:657#0/1  
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aaaaaaaaa\_\_\_a¥`aa\_Ya\_\_^`\_aaaX\_a`^\_VY\_\_\_Y  
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+HWI-EAS443:3:80:1086:1116#0/1  
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+HWI-EAS443:3:82:1230:1077#0/1  
ab`aaa\_abb]\_\_a`a`a\_^a\_a`^`aa`a]a`¥aa`a]  
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+HWI-EAS443:3:82:1254:1619#0/1  
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+HWI-EAS443:3:82:1367:1471#0/1  
aa\_\_a``aa`aaaa`a^a\_\_¥^Z\_^`a¥YaY^`¥Y\_ZUU]

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+HWI-EAS443:3:82:288:958#0/1  
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+HWI-EAS443:3:82:406:185#0/1  
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+HWI-EAS443:3:82:472:1169#0/1  
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+HWI-EAS443:3:82:479:2022#0/1  
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+HWI-EAS443:3:82:565:618#0/1  
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+HWI-EAS443:3:88:803:329#0/1  
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`aaa\_\_aYa\_aa¥^Ua^`\_\_U]a\_X`\_`N\_\_]^\_aR^`\_^  
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aaaa\_aaaaaZ\_a`\_\_a\_a\_a[a^aXa``¥aa\_^a`[Y\_X  
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+HWI-EAS443:3:99:216:494#0/1  
a^a\_aaaUY¥a\_\_`a\_`\_\_^\_^\_^X]\_^\_^`QFZ^VZ^\_  
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+HWI-EAS443:3:99:629:559#0/1  
[^]`a\_\_[\_b]bbabbb`[aaabaa`aa[^Saaaa`a\_U  
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+HWI-EAS443:3:99:912:1642#0/1  
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+HWI-EAS443:3:9:139:806#0/1  
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¥\_\_a\_V\_TV\_YM\_a^\_\_aa`aUT[[aVPa`Y]V[ZW\_a`^  
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a`a\_ZR^]]aaaU````^U¥Q\_]N]]HVZ``a¥[¥U\_^]]  
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+HWI-EAS443:3:38:894:84#0/1  
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^0[aa]]Y\_`Q\_aa\_aa`\_`\_V\_\_`a]\_`\_WZ[QL]TU^  
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+HWI-EAS443:3:34:1275:502#0/1  
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+HWI-EAS443:3:11:1356:1617#0/1  
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+HWI-EAS443:3:32:1255:1020#0/1  
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+HWI-EAS443:3:15:738:732#0/1  
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¥D¥]VLY^aaYY]^\_ZWXN`\_]¥Z[Z]^`\_\_^\_^XT¥Y  
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+HWI-EAS443:3:18:690:1542#0/1  
Z]`b¥0^\_¥Z`H]ba`]\_\_\_]]TQ\_]^[^a\_Z^ZW[]\_\_S¥`

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a\_a`aV`\_\_W`Z`\_\_^^UV^[^Z[\_¥\_\_`U^]Y]]][ZXZ  
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aab\_aa`a`[`\_\_aa`a`\_aa`P```\_\_^``¥W[\_^Y`^^[  
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¥Z\_¥`aPa\_ZXJ\_PZZ[¥\_]`bWaaZWKW]a`WYZQLWaT  
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aX]aa`Yaaaa`b]aa¥a\_\_`V\_^a`Ua`^\_Xa`X\_]`X  
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+HWI-EAS443:3:68:990:1249#0/1  
^a¥\_]Y^]]Z\_]\_aZ\_\_¥UY]ZL¥\_Y\_]\_\_\_\_][]¥^\_[\_]  
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\_a^]PU^\_R`SWZW]a`^`^GYZ^a[]]\_[V¥WOY[U[X  
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aa`a^\_\_aZ`^\_\_\_\_^]`][X]]^\_]`^WXX^^^]X]XY  
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ab\_Z^^ZZZV^R^aa^\_`¥][W[``¥QYaXZ``a]Y^¥^  
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aa``^aa`a¥`¥a\_Y\_\_a]¥Y\_Y]XZ^\_[[Y^]Q]¥\_] [  
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+HWI-EAS443:3:19:570:713#0/1  
aa]aa[Z`¥aaa`a[]`a`X\_\_¥TM\_\_0^^` `]]\_¥YYU  
@HWI-EAS443:3:19:710:1342#0/1  
CGTCTGAGTTCTTCAATGGTGGAACAGATCTTCATGATCT  
+HWI-EAS443:3:19:710:1342#0/1  
aaU`\_`SRFSaa[\_ba]P¥]a]\_W\_`^`YU]¥a^^]W¥M^  
@HWI-EAS443:3:1:1214:412#0/1  
GCCGTCTGAGTTCTTCAATGGTGGAACAGATCTTCATGAT  
+HWI-EAS443:3:1:1214:412#0/1  
^`]^HU^ZbUSbJV]P\_`Ya^Pa\_T]`W`^a]]]a\_\_`^B  
@HWI-EAS443:3:21:1164:303#0/1  
TTGCCGTCTGAGTTCTTCAATGGTGGAACAGATCTTCATG  
+HWI-EAS443:3:21:1164:303#0/1  
aab`\_`S]ba[aP`Y`a[aW\_^Z¥a^^\_X¥aSSW[ZYWW\_  
@HWI-EAS443:3:21:1306:939#0/1  
CTGAGTTCTTCAATGGTGGAACAGATCTTCATGATCTCAG  
+HWI-EAS443:3:21:1306:939#0/1  
^b^`a`^abb\_]`abb^aa`aa`\_aZaY^aa`\_a¥a`^\_  
@HWI-EAS443:3:21:327:308#0/1  
TGCCGTCTGAGTTCTTCAATGGTGGAACAGATCTTCATGA  
+HWI-EAS443:3:21:327:308#0/1  
[`b¥¥`ab\_¥^HZaaZW¥¥T]MX\_TP\_`aaaYL\_\_`aSa]  
@HWI-EAS443:3:22:1030:1613#0/1  
GCCGTCTGAGTTCTTCAATGGTGGAACAGATCTTCATGAT  
+HWI-EAS443:3:22:1030:1613#0/1  
`ba`[\_`a`¥¥`a\_]a`\_^^[G\_[\_Wfy]]UT^U\_VLQ]Z  
@HWI-EAS443:3:22:1760:1331#0/1  
CGTCTGAGTTCTTCAATGGTGGAACAGATCTTCATGATCT  
+HWI-EAS443:3:22:1760:1331#0/1  
I]Y\_`^^`^`b`]bbbb^`a`\_a`\_Lbaa[Y^b`IXVT  
@HWI-EAS443:3:22:871:908#0/1  
ATTTTTGCCGTCTGAGTTCTTCAATGGTGGAACAGATCTT  
+HWI-EAS443:3:22:871:908#0/1  
]a^aaaaabaaaa`a^`aa`^\_a`aZQ¥\_`^]a^aa`\_`a`  
@HWI-EAS443:3:23:181:564#0/1  
GCCGTCTGAGTTCTTCAATGGTGGAACAGATCTTCATGAT  
+HWI-EAS443:3:23:181:564#0/1  
`bbaZaabaa^`aaaab`aaa[\_`a`^a` `]¥a\_\_a`a`\_  
@HWI-EAS443:3:23:235:486#0/1  
TGCCGTCTGAGTTCTTCAATGGTGGAACAGATCTTCATGA  
+HWI-EAS443:3:23:235:486#0/1  
Obbb`]a`b]aN`b`aa`¥\_\_baaaaa\_`]aaaa^`^  
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GCCGTCTGAGTTCTTCAATGGTGGAACAGATCTTCATGAT  
+HWI-EAS443:3:25:474:1174#0/1  
a^`W\_`TIYD0¥YZXU`X[\_PZZZVPYMLXUFGWTTSL  
@HWI-EAS443:3:25:791:156#0/1  
GCCGTCTGAGTTCTTCAATGGTGGAACAGATCTTCATGAT  
+HWI-EAS443:3:25:791:156#0/1  
a\_`R]a`aa]aaa\_^\_\_`X\_V\_`\_]X^^]VX^]U¥Z]XZ



@HWI-EAS443:3:26:1052:1015#0/1  
TGCCGTCTGAGTTCTTCAATGGTGG AACAGATCTTCATGA  
+HWI-EAS443:3:26:1052:1015#0/1  
ababa^aabaa\_aa\_ba`a\_aa\_`a\_a\_\_`X]¥^a\_\_^`\_  
@HWI-EAS443:3:26:296:1627#0/1  
TGCCGTCTGAGTTCTTCAATGGTGG AACAGATCTTCATGA  
+HWI-EAS443:3:26:296:1627#0/1  
UbbYQQ\_¥U`¥HQaaab]a]bK\_a\_ababb]\_`\_]`aa\_\_a  
@HWI-EAS443:3:27:1604:1113#0/1  
TTGCCGTCTGAGTTCTTCAATGGTGG AACAGATCTTCATG  
+HWI-EAS443:3:27:1604:1113#0/1  
a``a^V\_`bb```a^aa]Yaaa`]a`]^U^a^`^a^^`\_\_  
@HWI-EAS443:3:27:903:1338#0/1  
GCCGTCTGAGTTCTTCAATGGTGG AACAGATCTTCATGAT  
+HWI-EAS443:3:27:903:1338#0/1  
`aba`a\_aaa]a\_aaa[a\_```^]Y`aa`\_\_]`\_a\_[-`\_\_  
@HWI-EAS443:3:30:1303:329#0/1  
CGTCTGAGTTCTTCAATGGTGG AACAGATCTTCATGATCT  
+HWI-EAS443:3:30:1303:329#0/1  
abbbba\_baaaaabb^`aba]babbbb```bbab\_babUa  
@HWI-EAS443:3:30:1677:1475#0/1  
GCCGTCTGAGTTCTTCAATGGTGG AACAGATCTTCATGAT  
+HWI-EAS443:3:30:1677:1475#0/1  
aYL\_¥Z\_Z^b¥aSaa^¥\_aa^X]`\_¥`\_¥[RVaaUYY\_U\_  
@HWI-EAS443:3:30:260:312#0/1  
CTGAGTTCTTCAATGGTGG AACAGATCTTCATGATCTCAG  
+HWI-EAS443:3:30:260:312#0/1  
ab\_Q[\_aaab`aaaaa^R\_a`a`]Ta\_`a``[\_a`\_\_\_\_  
@HWI-EAS443:3:31:1050:1481#0/1  
TTGCCGTCTGAGTTCTTCAATGGTGG AACAGATCTTCATG  
+HWI-EAS443:3:31:1050:1481#0/1  
]```b¥aaY\_^\_a\_^aaa[\_^]]WP\_ab```^a`]a]abZa  
@HWI-EAS443:3:32:1388:833#0/1  
CATGAAGATCTGTTCCACCATTGAAGAACTCAGACGGCAA  
+HWI-EAS443:3:32:1388:833#0/1  
```bbbbbbbaababa`baaaabba`aaaaaabaa\_b`bb  
@HWI-EAS443:3:32:142:179#0/1
TGCCGTCTGAGTTCTTCAATGGTGG AACAGATCTTCATGA
+HWI-EAS443:3:32:142:179#0/1
Xab````_WWX[¥Yb`Xaa_```UZ]¥U__^ZZ_¥][OYPZ
@HWI-EAS443:3:32:711:935#0/1
CGTCTGAGTTCTTCAATGGTGG AACAGATCTTCATGATCT
+HWI-EAS443:3:32:711:935#0/1
aa`aa^a^`a_aa¥`aZa`_`_]``^^^__`___Y^^^
@HWI-EAS443:3:32:929:437#0/1
TTGCCGTCTGAGTTCTTCAATGGTGG AACAGATCTTCATG
+HWI-EAS443:3:32:929:437#0/1
_Za]a`¥__ba^`]a`T¥]YL[XY¥_^X¥]P]Y]__aX`
@HWI-EAS443:3:33:1394:1285#0/1
GCCGTCTGAGTTCTTCAATGGTGG AACAGATCTTCATGAT

+HWI-EAS443:3:33:1394:1285#0/1
ab_UZa`__b]aaaa`a)`aa_aaaaYa`_[JQ_]`X_`_
@HWI-EAS443:3:34:395:760#0/1
CGTCTGAGTTCTTCAATGGTGG AACAGATCTTCATGATCT
+HWI-EAS443:3:34:395:760#0/1
aZQ_^`_Y`__a¥[__^^]P`^^^Z^]__^]]U]
@HWI-EAS443:3:35:1562:880#0/1
GCCGTCTGAGTTCTTCAATGGTGG AACAGATCTTCATGAT
+HWI-EAS443:3:35:1562:880#0/1
aaa`aa`_a_a]aa^`aaa`[aa^^]¥_Y]]a`]]^a¥^
@HWI-EAS443:3:35:689:576#0/1
TGCCGTCTGAGTTCTTCAATGGTGG AACAGATCTTCATGA
+HWI-EAS443:3:35:689:576#0/1
_Z`^aSa`X0^`_T`aa`_] ^aY¥`_`aa_]¥¥__]a_Y^
@HWI-EAS443:3:35:850:390#0/1
GCCGTCTGAGTTCTTCAATGGTGG AACAGATCTTCATGAT
+HWI-EAS443:3:35:850:390#0/1
abbbbabbbb_`abbabaaa]aa`ab`a]_aaaa`a_]`
@HWI-EAS443:3:37:576:392#0/1
GCCGTCTGAGTTCTTCAATGGTGG AACAGATCTTCATGAT
+HWI-EAS443:3:37:576:392#0/1
aa[]P¥`_Q_[¥Za`_[`^X]S_[_RRRLPP¥]^`^WZ^Z
@HWI-EAS443:3:38:844:151#0/1
GCCGTCTGAGTTCTTCAATGGTGG AACAGATCTTCATGAT
+HWI-EAS443:3:38:844:151#0/1
`a¥^M_0[[[XY]`_YY`_Z`SZY[]_VVLPSWWXZ_ZQ
@HWI-EAS443:3:39:126:2045#0/1
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+HWI-EAS443:3:39:126:2045#0/1
N`bb_T`a`¥¥_abbbbbbbba_R^`]^`bba_¥ababaa_X
@HWI-EAS443:3:39:1576:338#0/1
GCCGTCTGAGTTCTTCAATGGTGG AACAGATCTTCATGAT
+HWI-EAS443:3:39:1576:338#0/1
a`^babbbab]b_a^baaa`[X]`^WT`a__X_```_a_]`
@HWI-EAS443:3:3:427:167#0/1
TTGCCGTCTGAGTTCTTCAATGGTGG AACAGATCTTCATG
+HWI-EAS443:3:3:427:167#0/1
aaa`^a__aa`b_TYa_X_[`aaZF_]_GZ_[XJ¥`XZ]_`
@HWI-EAS443:3:40:1210:1895#0/1
TGCCGTCTGAGTTCTTCAATGGTGG AACAGATCTTCATGA
+HWI-EAS443:3:40:1210:1895#0/1
^X[aaab`aaa]baaa_aaa`_Yaa[V¥[`] `Z`aaa]a_
@HWI-EAS443:3:40:1518:254#0/1
TGCCGTCTGAGTTCTTCAATGGTGG AACAGATCTTCATGA
+HWI-EAS443:3:40:1518:254#0/1
X¥¥]_^_Y^_]X]UU_]`_U^Z[RZU_[TR[Z YVX_Z
@HWI-EAS443:3:40:978:730#0/1
GCCGTCTGAGTTCTTCAATGGTGG AACAGATCTTCATGAT
+HWI-EAS443:3:40:978:730#0/1
a¥^]¥```[aY^[]^V[_` `[Va^T¥__]^ [Y[Y¥WY^^^

@HWI-EAS443:3:42:317:1456#0/1
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+HWI-EAS443:3:42:317:1456#0/1
`abbb^_bbbabaababba^aba`a`bbabbbababb``_
@HWI-EAS443:3:44:1080:1559#0/1
GTCTGAGTTCTTCAATGGTGAACAGATCTTCATGATCTC
+HWI-EAS443:3:44:1080:1559#0/1
aaba_]a_aaba``aaaa^]`a_a`a`a_a_a```a^]_W
@HWI-EAS443:3:44:316:1059#0/1
GCCGTCTGAGTTCTTCAATGGTGAACAGATCTTCATGAT
+HWI-EAS443:3:44:316:1059#0/1
a_aa[¥]X[`Waa¥_YYZa`XQWW^ZZ^]T¥W]ZZ_]`^`T
@HWI-EAS443:3:45:1123:43#0/1
CGTCTGAGTTCTTCAATGGTGAACAGATCTTCATGATCT
+HWI-EAS443:3:45:1123:43#0/1
_baaab`b`bbabbbbbb`ababaabaa`baaa`ba__`
@HWI-EAS443:3:45:1750:1642#0/1
CGTCTGAGTTCTTCAATGGTGAACAGATCTTCATGATCT
+HWI-EAS443:3:45:1750:1642#0/1
__¥``baa^`TaS]WQ_b¥_bbbaaa`aaa`aabbaaZX
@HWI-EAS443:3:46:1412:239#0/1
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+HWI-EAS443:3:46:1412:239#0/1
a`aa`aabbb¥aaaaaaa`aa]aaaa_aa_a`aaaa``[`
@HWI-EAS443:3:47:1211:1383#0/1
GCCGTCTGAGTTCTTCAATGGTGAACAGATCTTCATGAT
+HWI-EAS443:3:47:1211:1383#0/1
aaa`Qab`Xaa``aaaaaaa`ba_`Yaaaa[a_Xaa`_a
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CGTCTGAGTTCTTCAATGGTGAACAGATCTTCATGATCT
+HWI-EAS443:3:47:1711:1185#0/1
ab^``_]a[R`a`]Yba`[ba]¥a`_ZSV`^a]SZ¥__X
@HWI-EAS443:3:47:594:1189#0/1
CTGAGTTCTTCAATGGTGAACAGATCTTCATGATCTCAG
+HWI-EAS443:3:47:594:1189#0/1
_bb_babaabababbb[_Z]bbbbTaabb`bVbbaab_IZ
@HWI-EAS443:3:47:739:737#0/1
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+HWI-EAS443:3:47:739:737#0/1
¥ZaX^``aTZbbZ`WZYaT]J``_b`[_]abaa]`¥[Y^
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CGTCTGAGTTCTTCAATGGTGAACAGATCTTCATGATCT
+HWI-EAS443:3:48:1328:765#0/1
aaaaabbbbababaaaabaa`aaaaabbaaaba`aaaa`a
@HWI-EAS443:3:48:1416:979#0/1
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+HWI-EAS443:3:48:1416:979#0/1
aababb[babaabaaaabaabaab``b_a`aa__aa``^
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CGTCTGAGTTCTTCAATGGTGAACAGATCTTCATGATCT

+HWI-EAS443:3:48:533:382#0/1
Y_¥`_]P_Ka¥Zaba^a`Ya`a`^^ab`aab^¥Z`_``S_
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GCCGTCTGAGTTCTTCAATGGTGGAACAGATCTTCATGAT
+HWI-EAS443:3:48:795:614#0/1
aaaaY`aa_aZ``_``_]a]`_^]]^_]^Z`_[^_]Y
@HWI-EAS443:3:49:1788:2020#0/1
TGCCGTCTGAGTTCTTCAATGGTGGAACAGATCTTCATGA
+HWI-EAS443:3:49:1788:2020#0/1
¥_WNSbabb_¥XaZbaba`bba_ba_aa][_a`b]XWWaa
@HWI-EAS443:3:49:390:59#0/1
CGTCTGAGTTCTTCAATGGTGGAACAGATCTTCATGATCT
+HWI-EAS443:3:49:390:59#0/1
Z^`[Zb]__Ta``_ba`¥b_b_bb^a_XaIX¥¥Z``a^[^
@HWI-EAS443:3:49:420:591#0/1
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+HWI-EAS443:3:49:420:591#0/1
a`]aba```baaaaa]`abba^H`b_ba```aa_aaaaa
@HWI-EAS443:3:4:1235:941#0/1
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+HWI-EAS443:3:4:1235:941#0/1
`babbbbaaabb^baabb_aaab_b`aa_ab_a_aaa^`
@HWI-EAS443:3:4:131:1350#0/1
TGCCGTCTGAGTTCTTCAATGGTGGAACAGATCTTCATGA
+HWI-EAS443:3:4:131:1350#0/1
OaaZ_JZ¥`XaX^R^]]Z`UYT__R]¥aaa``^]WPa_a`
@HWI-EAS443:3:50:1582:1276#0/1
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+HWI-EAS443:3:50:1582:1276#0/1
aa^]bb_^babb¥a^_ab[aaab_bbWaU_b`b`aaaa_
@HWI-EAS443:3:50:389:453#0/1
GCCGTCTGAGTTCTTCAATGGTGGAACAGATCTTCATGAT
+HWI-EAS443:3:50:389:453#0/1
abbaaaa__`[`Waaaa_aaXYaa[]V_a____`__a```]
@HWI-EAS443:3:50:687:2013#0/1
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+HWI-EAS443:3:50:687:2013#0/1
aa_baabbbbaaaba`aaaaYaaa`Yaa`a]aa[a_a_`
@HWI-EAS443:3:51:1152:921#0/1
GTCTGAGTTCTTCAATGGTGGAACAGATCTTCATGATCTC
+HWI-EAS443:3:51:1152:921#0/1
`WR``U`aa]aaaa_]`]S`X`__aYU`]¥_T¥T`^ZZZN
@HWI-EAS443:3:51:1203:890#0/1
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+HWI-EAS443:3:51:1203:890#0/1
`b[bbWbbaVa``aa`W^_aaSZ__Xa^aa__aU_`[Y`_
@HWI-EAS443:3:51:184:602#0/1
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+HWI-EAS443:3:51:184:602#0/1
aaaa`aaaa_a¥`a`^a`a`W`a`a`_a^_Ya_[[____^

@HWI-EAS443:3:52:938:1097#0/1
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+HWI-EAS443:3:52:938:1097#0/1
abbbaabaaa` `abaa]` `baZaa` `[a` `a¥aa]aaa` ^
@HWI-EAS443:3:53:149:971#0/1
TGCCGTCTGAGTTCTTCAATGGTGAACAGATCTTCATGA
+HWI-EAS443:3:53:149:971#0/1
ababbaaab^b_aaaa_Z_baaZaaaaaaaa^` _aaaaa`
@HWI-EAS443:3:53:176:462#0/1
CGTCTGAGTTCTTCAATGGTGAACAGATCTTCATGATCT
+HWI-EAS443:3:53:176:462#0/1
_a` bbaaaaababba_a` ^¥aa_V__b` aaaaaa_baa¥]
@HWI-EAS443:3:53:315:1198#0/1
CGTCTGAGTTCTTCAATGGTGAACAGATCTTCATGATCT
+HWI-EAS443:3:53:315:1198#0/1
a_` aabab^_babaa_a` ^¥bbabb` b` ab_a_aaaabaa
@HWI-EAS443:3:54:1238:198#0/1
GCCGTCTGAGTTCTTCAATGGTGAACAGATCTTCATGAT
+HWI-EAS443:3:54:1238:198#0/1
a][a^^]^_a[`] _a_^¥aa_]` ^U_Z^_Z]X_¥PZ¥_] [
@HWI-EAS443:3:55:305:1301#0/1
GCCGTCTGAGTTCTTCAATGGTGAACAGATCTTCATGAT
+HWI-EAS443:3:55:305:1301#0/1
abbaaa` `b` `baaaaaa_Z¥` `aaaab_aaaaa` aaa
@HWI-EAS443:3:56:111:1546#0/1
TGCCGTCTGAGTTCTTCAATGGTGAACAGATCTTCATGA
+HWI-EAS443:3:56:111:1546#0/1
`aa` a]aa_¥a_a]_aa_Zaaa_a` aaaaa` aaaa^a_aa
@HWI-EAS443:3:56:120:1839#0/1
CGTCTGAGTTCTTCAATGGTGAACAGATCTTCATGATCT
+HWI-EAS443:3:56:120:1839#0/1
_b_a` a_aVbba[aaa[Ta_bb]aaaaa^`]]_aVW` aa¥
@HWI-EAS443:3:56:487:1816#0/1
TGCCGTCTGAGTTCTTCAATGGTGAACAGATCTTCATGA
+HWI-EAS443:3:56:487:1816#0/1
`b_WY_]` aQS^]F]aG_a^WW[b]` ¥P_a]aUaaG^a]_
@HWI-EAS443:3:56:734:496#0/1
GCCGTCTGAGTTCTTCAATGGTGAACAGATCTTCATGAT
+HWI-EAS443:3:56:734:496#0/1
aaaa_bXa]` T]a]`]TZ¥^]]^XPYRW[ITYaYZZ[X` S
@HWI-EAS443:3:57:1057:902#0/1
GCCGTCTGAGTTCTTCAATGGTGAACAGATCTTCATGAT
+HWI-EAS443:3:57:1057:902#0/1
aa^a_aaa` a^`]a` ¥_Y` Y` ^a¥Y]TY]^` [_ZXY]____
@HWI-EAS443:3:57:482:128#0/1
CGTCTGAGTTCTTCAATGGTGAACAGATCTTCATGATCT
+HWI-EAS443:3:57:482:128#0/1
ab]aabababaa^aaaabaW`]` a_` a` ````^` a` _`]^
@HWI-EAS443:3:58:1102:650#0/1
GCCGTCTGAGTTCTTCAATGGTGAACAGATCTTCATGAT

+HWI-EAS443:3:58:1102:650#0/1
a`ZYNRYa[T¥ZY]^_`^Y¥]V[YW__]]Y¥^Z^^^W_
@HWI-EAS443:3:58:1759:1765#0/1
GTCTGAGTTCTTCAATGGTGGAACAGATCTTCATGATCTC
+HWI-EAS443:3:58:1759:1765#0/1
a__`aTa^a_a¥aWaaa`_[a^___Y_^W`XX__`]^ZZR
@HWI-EAS443:3:58:981:89#0/1
CGTCTGAGTTCTTCAATGGTGGAACAGATCTTCATGATCT
+HWI-EAS443:3:58:981:89#0/1
ab[aabbbaa_baaa`aaa[b___^¥a^^¥aa_a[a]^]^
@HWI-EAS443:3:59:1095:323#0/1
CGTCTGAGTTCTTCAATGGTGGAACAGATCTTCATGATCT
+HWI-EAS443:3:59:1095:323#0/1
aaVabaab^baba`babbb_baaba`bXbab`aa_]Xa¥_
@HWI-EAS443:3:59:1210:1310#0/1
GCCGTCTGAGTTCTTCAATGGTGGAACAGATCTTCATGAT
+HWI-EAS443:3:59:1210:1310#0/1
aa`_W__ba]V_`aa`]aaa`Zaa`aaaaW¥R[_¥ZW`¥X
@HWI-EAS443:3:59:58:1752#0/1
GTCTGAGTTCTTCAATGGTGGAACAGATCTTCATGATCTC
+HWI-EAS443:3:59:58:1752#0/1
a_a__aa`a]a]aaa```][_`]]]¥__``]S___ZY]]S
@HWI-EAS443:3:60:1385:280#0/1
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+HWI-EAS443:3:60:1385:280#0/1
a_aa^]aa[a_`_a`_W`aa_]aZ^^Q__]^¥_¥V¥]`_]_
@HWI-EAS443:3:60:194:1460#0/1
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+HWI-EAS443:3:60:194:1460#0/1
`aaa_[aaa`a]_aaaUa``a`aa_`a_`a__`^^^^_]_
@HWI-EAS443:3:62:1436:1165#0/1
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+HWI-EAS443:3:62:1436:1165#0/1
]P^[_`^XZ^XWQ¥Z^ZY^^[YWZ]U[X^XN¥[]]^`¥
@HWI-EAS443:3:62:199:1980#0/1
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+HWI-EAS443:3:62:199:1980#0/1
¥__aSLa_`^¥Ubbb^__^aOXYQ[¥bba```b]__^Z]a
@HWI-EAS443:3:62:82:1724#0/1
TGCCGTCTGAGTTCTTCAATGGTGGAACAGATCTTCATGA
+HWI-EAS443:3:62:82:1724#0/1
aabbb`a`aaZW_`[aaa]_PT)`[¥_]`XZZU`_^VXP
@HWI-EAS443:3:62:986:2034#0/1
TTGCCGTCTGAGTTCTTCAATGGTGGAACAGATCTTCATG
+HWI-EAS443:3:62:986:2034#0/1
XVa`_¥R_aaaaX```Z^S^aaaN_Xaa`a¥^]L][T¥```
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TGCCGTCTGAGTTCTTCAATGGTGGAACAGATCTTCATGA
+HWI-EAS443:3:63:1336:727#0/1
aabb`[`bb_baabbb¥¥_`a]a`aa````_]aa]_Xba

@HWI-EAS443:3:64:1423:401#0/1
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+HWI-EAS443:3:64:1423:401#0/1
aaaaaaabbab_baba_aaaba_aa_a^`a_aaaa_`aa`
@HWI-EAS443:3:64:405:1275#0/1
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+HWI-EAS443:3:64:405:1275#0/1
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CGTCTGAGTTCTTCAATGGTGG AACAGATCTTCATGATCT
+HWI-EAS443:3:64:638:290#0/1
ab^aaa_bNa`a^aaaa`aZ`_`¥aaZ``a_a__aa_^`
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GCCGTCTGAGTTCTTCAATGGTGG AACAGATCTTCATGAT
+HWI-EAS443:3:65:1724:667#0/1
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+HWI-EAS443:3:65:1729:525#0/1
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@HWI-EAS443:3:66:1056:683#0/1
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+HWI-EAS443:3:66:1056:683#0/1
aaa`aaaaaa`baabaaaaaa]aa¥a[a^¥a`aaaa`_``
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+HWI-EAS443:3:66:248:956#0/1
``baa`a_Y_a`aaaaabaaa`^a__¥_aa__aa`a`aa_
@HWI-EAS443:3:66:366:1214#0/1
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+HWI-EAS443:3:66:366:1214#0/1
]O]b_GRaaOX_[XX^VPVVZ¥XPXNX_YV¥`_`TX[Y¥Z
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CGTCTGAGTTCTTCAATGGTGG AACAGATCTTCATGATCT
+HWI-EAS443:3:67:668:807#0/1
aUUa`_R]]_____aU][S]S_]____`^W^``__^]_¥T¥¥
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+HWI-EAS443:3:67:945:1503#0/1
a¥a_^_aN_aaaabaab¥Yaa^a^ab`^^a]aa]aaaa`a
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+HWI-EAS443:3:68:100:1825#0/1
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+HWI-EAS443:3:68:86:621#0/1
_`abaaab_aaaa]]_aabY]¥`a`^UT¥aaaaa_aaa_`
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a_Z¥P`SZK]_aaZ[aZ^]a__`__[_aY_^]W[a`][^¥
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+HWI-EAS443:3:69:851:185#0/1
aaaab`b`_b^aab_a^^`aXaaaa]V]^```_`^`
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+HWI-EAS443:3:6:337:990#0/1
a`_`_a`]Y_LUUX[XM[W¥XN_WN¥R_ZX^U_XHVI_]U
@HWI-EAS443:3:70:1207:912#0/1
TGCCGTCTGAGTTCTTCAATGGTGGAACAGATCTTCATGA
+HWI-EAS443:3:70:1207:912#0/1
aba0a]]Ya__][Y_^H`^T`¥_a__GK`VXGW`[¥[V[
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+HWI-EAS443:3:70:1464:1619#0/1
¥bb]]`b^b^baabababaaaaX`^a`a`aaa_a`]aXa_
@HWI-EAS443:3:70:81:355#0/1
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aaa`_a_aaaW_aaaa`¥`^Z_____`]T]^)]^_^
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+HWI-EAS443:3:72:264:1590#0/1
aYaT_YS_Y^^]Za]IX[P]RWYa`RYY`^`^_S_^IUH^
@HWI-EAS443:3:72:763:1514#0/1
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+HWI-EAS443:3:72:763:1514#0/1
aaaaZb^`_]`^`_XRZ_U_____]^_X_W^^^^
@HWI-EAS443:3:73:404:369#0/1
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+HWI-EAS443:3:73:404:369#0/1
aaaa`aaaa^aaaa_a`¥aX`¥^¥__Y`]]`¥^__^]
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+HWI-EAS443:3:73:970:801#0/1
aaab]XR]Z]a^¥N[a`bTY`_^¥0`_a`_`_a_^_]][
@HWI-EAS443:3:74:127:1241#0/1
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+HWI-EAS443:3:74:127:1241#0/1
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¥_a`]`aX_^`a`a`_`_`_a^V¥a^ab`a`aa`baaaa
@HWI-EAS443:3:75:427:1223#0/1
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+HWI-EAS443:3:75:427:1223#0/1
abba_ba_` `^aaaa`W^a`a[a¥`aaa[[]`aaa]¥_a_
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+HWI-EAS443:3:75:793:186#0/1
a[abbaba` `baa`aaaaSa`aa_aa_a¥aa_aaaa`^__
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+HWI-EAS443:3:75:807:1576#0/1
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+HWI-EAS443:3:76:1069:215#0/1
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@HWI-EAS443:3:76:1242:939#0/1
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+HWI-EAS443:3:76:1242:939#0/1
Y_`bZ¥`abbbb`aaaa^` `ba]` ` `]¥a`_aYa_Q__`
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+HWI-EAS443:3:76:1583:550#0/1
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+HWI-EAS443:3:76:929:145#0/1
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aX_aZ]X][`YZX^]UZV^_]T[TTZLU_WY[^ZWZZ[UY
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+HWI-EAS443:3:78:1406:835#0/1
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@HWI-EAS443:3:78:876:1760#0/1
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+HWI-EAS443:3:78:876:1760#0/1
^ab_aa_a^¥Wa]`_¥ba`Zaa`a]^Wq]XZa]`b_Z_¥¥
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¥[U_QNYT¥¥RYGYQQZ[Z^TT`YV^W^a^VL` `a^YXTW
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@HWI-EAS443:3:89:1106:1025#0/1
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+HWI-EAS443:3:89:1106:1025#0/1
aabb```abbbbababbaXa`a^`aaaaaaaaaaaa_a`
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+HWI-EAS443:3:89:665:1153#0/1
aZa`ab`a_`^bZa`a`Z^a]]a]a_```]^`_a_`_Z`
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+HWI-EAS443:3:89:881:1793#0/1
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@HWI-EAS443:3:89:945:649#0/1
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+HWI-EAS443:3:89:945:649#0/1
a`_UHYSYY[QTW_]W]SNSZ_NPS]TMLWXQS]RU¥UV
@HWI-EAS443:3:8:306:454#0/1
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+HWI-EAS443:3:8:306:454#0/1
^¥abb_bb`a``¥abab_ZXb_XWabaa]_`]bb_ba_``
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+HWI-EAS443:3:8:590:1110#0/1
aaa_a`aaZ]a_`_aaa___a_Xa^`_`^`_`^`_V`X¥_
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+HWI-EAS443:3:90:1303:1426#0/1
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+HWI-EAS443:3:90:569:1076#0/1
a`^ba`]a_b`]`aaaa_aa`]]]`^_VU^`^`^a_`_
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@HWI-EAS443:3:91:1161:1796#0/1
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+HWI-EAS443:3:91:1161:1796#0/1
]^a]abaaabb_bbbab`abbb]ab^aab`a``aa^a_[a
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+HWI-EAS443:3:91:798:1819#0/1
`Y``aa^_Xa`__`^aaa``aa_Qaa__Ya]_aZa^a`__
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+HWI-EAS443:3:91:949:255#0/1
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+HWI-EAS443:3:92:1156:632#0/1
abb_#a_ba_babbbYb`ababbab`bbba]aaa_`^aa
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+HWI-EAS443:3:92:1432:434#0/1
`Za`_aa^_a]aa^`_`^V^^_0_a^X^^_Y#_]
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+HWI-EAS443:3:92:223:511#0/1
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@HWI-EAS443:3:93:220:1976#0/1
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+HWI-EAS443:3:93:220:1976#0/1
^]Xa[bWbb]aaR]_X[_b^]`a]bYa``_]#_b`_W[R`
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+HWI-EAS443:3:93:676:1350#0/1
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+HWI-EAS443:3:94:1161:1176#0/1
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@HWI-EAS443:3:94:372:751#0/1
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+HWI-EAS443:3:96:290:1099#0/1
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+HWI-EAS443:3:96:637:461#0/1
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+HWI-EAS443:3:96:807:176#0/1
aZ^`a^a]a_a`]a__^aYZ][¥XZ]XWZ`]X`^]]VUUR
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_baaVabb]_aaaaba[baba_aa`_`aa]]`a_¥aaaa`
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+HWI-EAS443:3:98:79:1760#0/1
aaab]^```_[_`aa]aa`aa[Z]_a_a^```a_`a_Za_
@HWI-EAS443:3:9:590:219#0/1
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+HWI-EAS443:3:9:590:219#0/1
aba`b^`aba¥U`Yaaaa]a_W``__[[a]_X^_¥___^
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ACTTTTGTGGACAGTATGGATAGCAAATAGTAGCATTTC
+HWI-EAS443:3:55:462:421#0/1
aabb_H]bba``aT]_aa`_[QRQT`SNWQRWNLXBBB
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+HWI-EAS443:3:51:1244:694#0/1
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@HWI-EAS443:3:69:63:212#0/1
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+HWI-EAS443:3:69:63:212#0/1
^LW^WL_^[T¥`Q_^[BBBBBBBBBBBBBBBBBBBBBBBB
@HWI-EAS443:3:36:672:1895#0/1
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+HWI-EAS443:3:51:1043:1021#0/1
aaa^^^^[^X^`]_W^ab]]][Y[_¥TZa]W^¥`Y]WU_[^
@HWI-EAS443:3:9:1104:1553#0/1
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+HWI-EAS443:3:9:1104:1553#0/1
_ [VJ_S_bb_TZ^RUY`_P¥Q_HU[U¥[I_OWJ][JULYBB
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+HWI-EAS443:3:100:474:1201#0/1
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+HWI-EAS443:3:17:1612:2038#0/1
¥]XRV]a_`aY]^ZV^_¥XZ_``[WWOKXVLJQ[RDIT
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+HWI-EAS443:3:19:352:1873#0/1
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@HWI-EAS443:3:20:794:1383#0/1
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+HWI-EAS443:3:20:794:1383#0/1
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GTACTTTTTGGACAGTCTGGATAGCAAATAGTAGCATTG
+HWI-EAS443:3:29:266:1234#0/1
`¥bbbababaabaaaX¥^`Y^ZTT_`_¥¥YOZ¥_^]]Y
@HWI-EAS443:3:33:206:1404#0/1
GTACTTTTTGGACAGTATGGATAGCAAATAGGAGCATTG
+HWI-EAS443:3:33:206:1404#0/1
a_`aaaab`a_U_aa^]XaZYa¥[V]X]`WYVG¥ZTXZ¥X
@HWI-EAS443:3:36:1267:576#0/1
ACTTTTTGGACAGTATGGATAGCAAATAGTAGTATTGCC
+HWI-EAS443:3:36:1267:576#0/1
aabbabbb`bb_¥_aa_a^aa`^Z]^a_^]`¥YUDZ¥__[_
@HWI-EAS443:3:36:689:466#0/1
CCCTGGGTTTTGCTTAATGCCTCTTGGTTCAACTCCTTCC
+HWI-EAS443:3:36:689:466#0/1
aba`_`_¥`^abaY]a]Z]UD[WZaaa^]^]V]aa¥[¥[a

@HWI-EAS443:3:3:1499:377#0/1
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+HWI-EAS443:3:3:1499:377#0/1
`XZ¥US__^[¥SR0aX_V^_YN]XDO[YVXRMSZBBBBB
@HWI-EAS443:3:3:1670:1226#0/1
CTTTTTTGGACAGTATGGATAGGAAATAGTAGCATTGCCA
+HWI-EAS443:3:3:1670:1226#0/1
_b^b_b____]abaab`aab¥aI^`_b_N¥aPR_aa¥Sa
@HWI-EAS443:3:3:558:701#0/1
AAGGTACTTTTTGGTCAGTATGGATAGCAAATAGTAGCA
+HWI-EAS443:3:3:558:701#0/1
a^a^`b`ababbaa^aa_aaa`a_`aWa_a_`YS]`][
@HWI-EAS443:3:40:35:1999#0/1
GTACTTTTTGGACAGTATGGATAGCAAAAAGTAGCATTG
+HWI-EAS443:3:40:35:1999#0/1
]X`aaaa^aa]W_]aaXa^¥W_]ZVLOXXZZSS¥¥[W[QV
@HWI-EAS443:3:48:363:1438#0/1
ACTTTTTTGGACAGTATGGATAGCAAATAGGAGCATTGCC
+HWI-EAS443:3:48:363:1438#0/1
a^abababaabaaa`aa`aa`_a]`_`a_ZFYa__]a`_]
@HWI-EAS443:3:49:682:1977#0/1
ACTTTTTTGGACAGTATGGATAGGAAATAGTAGCATTGCC
+HWI-EAS443:3:49:682:1977#0/1
^Y`^[0^`]MXZZ[KTSQW_a_[DZa`XXZSYZHT`OOTP
@HWI-EAS443:3:4:725:595#0/1
TACTTTTTTGGACAGTATGGATAGCAAATAGTAGCATTGC
+HWI-EAS443:3:4:725:595#0/1
a]aaaaaab__[\`a^_a_^^^`\`__][__]X¥^VX^)]
@HWI-EAS443:3:52:148:1516#0/1
GTACTTTTTGGACAGTATGGATAGCAAATAATAGCATTG
+HWI-EAS443:3:52:148:1516#0/1
QJ¥__SU_Y]¥_`Z`aW`]W¥OZXSMXXMQXIHZ[BBBBB
@HWI-EAS443:3:5:415:256#0/1
GTACTTTTTGGACAGTATGGATAGCAAATAGGAGCATTG
+HWI-EAS443:3:5:415:256#0/1
aaVXZb`^aa`b`__a`_Yba]__ZZa_XZX_GM]FT`BB
@HWI-EAS443:3:67:1414:1746#0/1
GTACTTTTTGGACAGTATGGATAGCAAATAATAGCATTG
+HWI-EAS443:3:67:1414:1746#0/1
a]a¥`a_`aa^_^_`]\`_`__^_¥G]_`Va`Z]_V[¥_W
@HWI-EAS443:3:69:700:992#0/1
TGGACAGTATGGATAGCAAATAGTAGCATTGCCAAAATA
+HWI-EAS443:3:69:700:992#0/1
`]\`]aabaY_a`aaYYR¥aa`a^PG`a^`_¥MZ]PI¥a`^`
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+HWI-EAS443:3:72:186:602#0/1
YFN^aaa^Z_a`]aSVVW]`YYVPDPUUQZ[JUY¥WWYU
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+HWI-EAS443:3:77:1322:1335#0/1
a`a_[Wa^bbb_baa[aaa¥Ya^`b_b[FW^aU_ZP_SO
@HWI-EAS443:3:7:1443:1330#0/1
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+HWI-EAS443:3:7:1443:1330#0/1
aXZ[a`]¥¥[YTTY^TY_^YLSaWYFV[XWSWLL[OXBBB
@HWI-EAS443:3:80:1068:538#0/1
GTACTTTTTTGGACAGTATGGATAGGAAATAGTAGCATTG
+HWI-EAS443:3:80:1068:538#0/1
aa^a]Z`Z[¥`^ZZZ¥`a^[RHSFWZ^__^UXTHT^^X
@HWI-EAS443:3:84:1121:1755#0/1
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+HWI-EAS443:3:84:1121:1755#0/1
ab_bbbaaa`aYZZO][Z`V`aaaZWX_^P]YDW[Q[^P
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CTTTTTTGGACAGTATGGATAGCAAATAGTGGCATTGCCA
+HWI-EAS443:3:86:698:51#0/1
aa^ab`_]Z`b¥`_baaaRSG]]VNYUYUG]OY¥[UMMY
@HWI-EAS443:3:90:1246:1930#0/1
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+HWI-EAS443:3:90:1246:1930#0/1
a[WS_[`TPYa[^_HaS]Ya]`^P^H¥S]^_UVSUY]YZP
@HWI-EAS443:3:92:192:328#0/1
CCCTGGGTTTTGCTTAATGCCTCTTGGTTCAACTCCTTCC
+HWI-EAS443:3:92:192:328#0/1
`bb^^`baUbaa_S^`XXaTH_``a_XF_W]``Kaa`Z^
@HWI-EAS443:3:94:577:1779#0/1
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+HWI-EAS443:3:94:577:1779#0/1
_a`_XZ¥bY^]V^a^`¥ZW`¥SRTGZPMXMXNPVXSTZG
@HWI-EAS443:3:97:1211:600#0/1
GTACTTTTTTGGACAGTATGGATAGCAAATAGTAGAATTG
+HWI-EAS443:3:97:1211:600#0/1
Uaaabbabbbba``bbaa```aa¥ZUa`¥WZa¥`[DWa^P
@HWI-EAS443:3:9:890:920#0/1
ACTTTTTTGGACAGTATGGATAGGAAATAGTAGCATTGCC
+HWI-EAS443:3:9:890:920#0/1
[aa_S`[a^YR¥¥^Z]Z^[UQV^H^V`¥]¥EFYY]T¥TY¥
@HWI-EAS443:3:71:470:1501#0/1
GGCACTTTTTTGGACAGTATGGATAGCAAATAGTAGCATT
+HWI-EAS443:3:71:470:1501#0/1
PDLXa]`Y¥¥¥[¥ZV`_XV[^V SX]R[P[ZU[Q]GT]
@HWI-EAS443:3:80:136:2032#0/1
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+HWI-EAS443:3:80:136:2032#0/1
PXS`]^`J`aabaVb^P^]b¥Y`aaR`^aa]YGaXaaSW^
@HWI-EAS443:3:81:1617:1601#0/1
CTTTTTTGGACAGTATGGATAGCAAATAGTAGCATTGACA
+HWI-EAS443:3:81:1617:1601#0/1
U¥``U`bbV`U`a````b`U`_baabJSW]GO]XZFJRV

@HWI-EAS443:3:98:1740:576#0/1
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+HWI-EAS443:3:98:1740:576#0/1
SSSZ`¥aaZ¥H`V`¥]_¥[`SLQVXaaaaWbTWaaPD[_
@HWI-EAS443:3:10:544:279#0/1
GTACTTTTTTGGACAGTATNGATAGCAAATAGTAGCATTG
+HWI-EAS443:3:10:544:279#0/1
aWQWW¥^^_^`^BBBBBBBBBBBBBBBBBBBBBBBBBBBBB
@HWI-EAS443:3:19:828:580#0/1
CTTTTTTGGANAGTATGGATAGCAAATAGTAGCATTGCCA
+HWI-EAS443:3:19:828:580#0/1
abbabbbbb]D[a_abbab]a^bbaa]^a^Yaaaa``[
@HWI-EAS443:3:21:286:1381#0/1
GTACTTTTTTGGACAGTATNGATAGCAAATAGTAGCATTG
+HWI-EAS443:3:21:286:1381#0/1
a`aaabbaaaa`aa`a[D[a_a`a_]`YX`__`_^]
@HWI-EAS443:3:23:1503:1584#0/1
TTTTTGGACAGTNTGGATAGCAAATAGTAGCATTGCCACA
+HWI-EAS443:3:23:1503:1584#0/1
aaaaaaaaaaaaTD[``]`_^`a¥_Y[MR]UW^[T[ZWO]
@HWI-EAS443:3:24:376:733#0/1
ACTTNTTTGGACAGTATGGATAGCAAATAGTAGCATTGCC
+HWI-EAS443:3:24:376:733#0/1
aaa[D¥aaaaa`aaX`aa`_^_]`^`^N_¥Z¥__Y¥V
@HWI-EAS443:3:58:1327:1444#0/1
TTTTGGACAGTATGGATAGCAANTAGTAGCATTGCCACAA
+HWI-EAS443:3:58:1327:1444#0/1
a`b`bXZ`_`Q]a]Z_¥PQ^_RDWY_XX¥NY[WLFY_Z^V
@HWI-EAS443:3:66:1637:952#0/1
ACTTTTTTGGACAGTATGGNTAGCAAATAGTAGCATTGCC
+HWI-EAS443:3:66:1637:952#0/1
^`bbbbbbbaZabb¥bab^D]``_b`b_aU_aaabbV_]`
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CTTTTTTGGACAGTATGGATANCAAATAGTAGCATTGCCA
+HWI-EAS443:3:95:1229:1634#0/1
aaabbabbbb_Y`bbbab`[DX_bbabb_bUXaa^aa`_
@HWI-EAS443:3:34:1421:1642#0/1
CTTTTTTGGACAGTATGGATAGCAAATAGTAGCATTGCAA
+HWI-EAS443:3:34:1421:1642#0/1
`_`aba^aaW_aW^_YaV`[¥__aa¥Y]NO`_VRQYQTGB
@HWI-EAS443:3:39:387:1859#0/1
GCACTTTTTTGGACAGTATGGATAGCAAATAGTAGCATTG
+HWI-EAS443:3:39:387:1859#0/1
]OT_RaaaaaZQVa]``_W`W_QYZaa`YX¥¥VaU]RXOZ
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CAAGGTACTTTTTTGGACAGTATGGATAGCAAATAGTAGA
+HWI-EAS443:3:71:1289:1884#0/1
aYUXSO¥`^]H]]^PP¥aV_bRPZ^RWDEXaWL¥ITSPD
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GGACAGTATGGATAGCAAATAGTAGCATTGCCACAATAA

+HWI-EAS443:3:97:221:242#0/1
`[U[Y`OW¥¥¥JLYVYaY_QUP`^XWSU_NLVZ_^ZZYG
@HWI-EAS443:3:100:492:647#0/1
GTACTTTTTGGACAGTATGGATAGCAAATAGTAGCATTG
+HWI-EAS443:3:100:492:647#0/1
aX0^aab`aaa_XN_aS^¥aa`a_^S_a_^[ZR[¥NY_XB
@HWI-EAS443:3:10:474:691#0/1
ACTTTTTGGACAGTATGGATAGCAAATAGTAGCATTGCC
+HWI-EAS443:3:10:474:691#0/1
abbbbbbbbababb_abbaaaaaaaaa_a_]a``_`a^``
@HWI-EAS443:3:10:711:875#0/1
TTTTTGGACAGTATGGATAGCAAATAGTAGCATTGCCACA
+HWI-EAS443:3:10:711:875#0/1
aa`aaa`__¥a__`a`^_]`____^`_W__UY^^WZW¥Z^
@HWI-EAS443:3:11:1629:803#0/1
GTACTTTTTGGACAGTATGGATAGCAAATAGTAGCATTG
+HWI-EAS443:3:11:1629:803#0/1
a^a_aabaaaaa_^_a]`aaa`_`Y`__^¥]X`Y¥Z_U
@HWI-EAS443:3:11:227:600#0/1
CTTTTTTGGACAGTATGGATAGCAAATAGTAGCATTGCCA
+HWI-EAS443:3:11:227:600#0/1
ababbbbbbb_aba_aa`aaa`][`aa¥a_Y``¥Q]`¥_`¥
@HWI-EAS443:3:11:605:1658#0/1
GTACTTTTTGGACAGTATGGATAGCAAATAGTAGCATTG
+HWI-EAS443:3:11:605:1658#0/1
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@HWI-EAS443:3:12:1672:1262#0/1
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+HWI-EAS443:3:12:1672:1262#0/1
_N¥NY_TWa_^ZPNQa¥_]MVLPRRMV[PSYUVPYBBBBB
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+HWI-EAS443:3:12:1714:1698#0/1
aaba_`a__aa¥__a`____`S^^^X__T[SRY]ZNTPW[Z
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+HWI-EAS443:3:13:131:621#0/1
YT`^aV[_aaaa__[]X]`[RLXWQ_OQaXY_BBBBBBBB
@HWI-EAS443:3:13:19:1056#0/1
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+HWI-EAS443:3:13:19:1056#0/1
`PRY^`_W_S_^]¥UV^]]`Y``¥X[^`¥^[Q¥a[W^YX
@HWI-EAS443:3:13:635:950#0/1
GTACTTTTTGGACAGTATGGATAGCAAATAGTAGCATTG
+HWI-EAS443:3:13:635:950#0/1
aX¥V¥`V]aaaa`_`SM[_`^Z__`X[^`^Z^WNSYZV¥VS
@HWI-EAS443:3:13:754:1982#0/1
GTACTTTTTGGACAGTATGGATAGCAAATAGTAGCATTG
+HWI-EAS443:3:13:754:1982#0/1
aY]]Za^^aZ]_]`b`a`YZY_aZ`^`¥Q^ZG]¥TXOYU

@HWI-EAS443:3:13:938:1219#0/1
ACTTTTTTGGACAGTATGGATAGCAAATAGTAGCATTGCC
+HWI-EAS443:3:13:938:1219#0/1
abaaaaaaaa_aa^`a^_[Z_`a_]_ZW_Z[^_¥X[]
@HWI-EAS443:3:14:1185:793#0/1
TACTTTTTTGGACAGTATGGATAGCAAATAGTAGCATTGC
+HWI-EAS443:3:14:1185:793#0/1
a]`babaabbaaab]aaaa_`a^Wa`a`_Y`a`_a[]
@HWI-EAS443:3:14:1193:647#0/1
CTTTTTTGGACAGTATGGATAGCAAATAGTAGCATTGCCA
+HWI-EAS443:3:14:1193:647#0/1
a`b_aaaaaa`_a]_aaa_____][[[_W_[YW_^X¥^¥
@HWI-EAS443:3:14:1628:1280#0/1
GTACTTTTTTGGACAGTATGGATAGCAAATAGTAGCATTG
+HWI-EAS443:3:14:1628:1280#0/1
]`babaaa¥¥_`b`aaa```_Y```_`X^`PP]_Y
@HWI-EAS443:3:14:1699:228#0/1
TACTTTTTTGGACAGTATGGATAGCAAATAGTAGCATTGC
+HWI-EAS443:3:14:1699:228#0/1
aaaaaaaa_`a`OXaaS`aaa^]`T_a]_]U^_T[V_0Q
@HWI-EAS443:3:14:374:89#0/1
GTACTTTTTTGGACAGTATGGATAGCAAATAGTAGCATTG
+HWI-EAS443:3:14:374:89#0/1
a_aaaaaaabaa_`aa]_`a`__^Z[^`^___^Y]a]]^^[
@HWI-EAS443:3:14:783:567#0/1
GTACTTTTTTGGACAGTATGGATAGCAAATAGTAGCATTG
+HWI-EAS443:3:14:783:567#0/1
a[_`a_aaa_a^W^`X^a``][¥Y[^^^]]TLU_]]]VT
@HWI-EAS443:3:14:839:1333#0/1
ACTTTTTTGGACAGTATGGATAGCAAATAGTAGCATTGCC
+HWI-EAS443:3:14:839:1333#0/1
`[^`aaa`Q_]aaa_Y_`a``aa_``aaa^¥U__Y¥_Y_]`
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GTACTTTTTTGGACAGTATGGATAGCAAATAGTAGCATTG
+HWI-EAS443:3:15:1086:1491#0/1
aaaa]``_a^aaa^`aZa_aa^_aa[a_YPOUU__X^^Z]
@HWI-EAS443:3:15:114:740#0/1
GTACTTTTTTGGACAGTATGGATAGCAAATAGTAGCATTG
+HWI-EAS443:3:15:114:740#0/1
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@HWI-EAS443:3:15:234:424#0/1
GTACTTTTTTGGACAGTATGGATAGCAAATAGTAGCATTG
+HWI-EAS443:3:15:234:424#0/1
a^a___`__`__`_`^`a[___`^^^]W_]_]_[WY^]Y[^W
@HWI-EAS443:3:15:681:226#0/1
GTACTTTTTTGGACAGTATGGATAGCAAATAGTAGCATTG
+HWI-EAS443:3:15:681:226#0/1
aZY_RLL¥¥P¥```]¥VPUY]XBBBBBBBBBBBBBBBBBB
@HWI-EAS443:3:16:1527:39#0/1
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+HWI-EAS443:3:16:1527:39#0/1
_`_YZabbbb¥a^Y)aaaa_Y_FS`^^V`T¥ZP]Z[[PZ
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@HWI-EAS443:3:16:230:1582#0/1
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+HWI-EAS443:3:16:230:1582#0/1
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@HWI-EAS443:3:16:550:229#0/1
GTACTTTTTTTGGACAGTATGGATAGCAAATAGTAGCATTG
+HWI-EAS443:3:16:550:229#0/1
a[____aaaaa`]`a__`a`^____Y_____]U[[^[[¥K
@HWI-EAS443:3:16:859:1520#0/1
ACTTTTTTTGGACAGTATGGATAGCAAATAGTAGCATTGCC
+HWI-EAS443:3:16:859:1520#0/1
Za`]¥ab`Y^_a¥b^ZaaYa__¥SY_¥UWVD[YW^SY]O]
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+HWI-EAS443:3:16:950:1071#0/1
ab``a`^^_aa^^`][a`]W_`[¥¥ZR_^FU¥^__^_^
@HWI-EAS443:3:17:1148:956#0/1
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+HWI-EAS443:3:17:1148:956#0/1
`[Q_¥]abb_`_a`__¥L_RS]]KWRGT0`]Z_X[^XWRJ
@HWI-EAS443:3:17:1418:797#0/1
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+HWI-EAS443:3:17:1418:797#0/1
a``^`aaaa_aa_`^`Z^aa_[]^¥VU_]Z^Y[`SYW]Y
@HWI-EAS443:3:17:1602:808#0/1
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+HWI-EAS443:3:17:1602:808#0/1
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@HWI-EAS443:3:17:1662:427#0/1
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+HWI-EAS443:3:17:1662:427#0/1
aaababbaba`a`a`aaaba___W_____^¥[`aY^___[[[
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+HWI-EAS443:3:17:227:1659#0/1
aaababbbbaabaa_aaaa_aa[aa`aa`XUa``_``]^a_
@HWI-EAS443:3:17:255:362#0/1
GTACTTTTTTTGGACAGTATGGATAGCAAATAGTAGCATTG
+HWI-EAS443:3:17:255:362#0/1
a_a`aabaaaba_`aa[a`a_a_`^_[a^__^SP`_[¥^¥S
@HWI-EAS443:3:17:260:558#0/1
ACTTTTTTTGGACAGTATGGATAGCAAATAGTAGCATTGCC
+HWI-EAS443:3:17:260:558#0/1
[a]¥Z`]^_`K_ZaUW``YW_^QWU[QR^^OSRQLXW¥¥X

@HWI-EAS443:3:17:626:1559#0/1
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+HWI-EAS443:3:17:626:1559#0/1
a^aba_aaaa`_aba_aaaa`_a`aaa_a^[\`^`_`a]
@HWI-EAS443:3:17:875:1170#0/1
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+HWI-EAS443:3:17:875:1170#0/1
a¥^Y]RSYYW_a`^TPT`VTWWR¥`¥[N_PFVVM[U[YPR
@HWI-EAS443:3:18:107:273#0/1
GTACTTTTTGGACAGTATGGATAGCAAATAGTAGCATTG
+HWI-EAS443:3:18:107:273#0/1
a_aaaaaaaaaaaaaa^a`aa_`___a``Z¥^X_]W¥^__
@HWI-EAS443:3:18:99:1733#0/1
TTTTTTGGACAGTATGGATAGCAAATAGTAGCATTGCCAC
+HWI-EAS443:3:18:99:1733#0/1
aaaa_a_a`aa`]a`_a^`U[\`a`YYTT¥`_¥Z^[[[][_
@HWI-EAS443:3:19:1579:181#0/1
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+HWI-EAS443:3:19:1579:181#0/1
`P]`^^]a]] [MILYWFO^^YPVLRWYUBBBBBBBBBBB
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+HWI-EAS443:3:19:1690:1360#0/1
_a^^`_abaa`bV`_]¥aba_a^¥T[[[_]_NY^QX` `[
@HWI-EAS443:3:19:856:131#0/1
ACTTTTTGGACAGTATGGATAGCAAATAGTAGCATTGCC
+HWI-EAS443:3:19:856:131#0/1
ab¥^`¥ZM¥`aVaaYaaPJa^`]`_a`aN¥YHXX`Y_¥
@HWI-EAS443:3:19:914:24#0/1
GGTACTTTTTGGACAGTATGGATAGCAAATAGTAGCATT
+HWI-EAS443:3:19:914:24#0/1
aa_a_aaaaaaa`_]`a[\`^a`^^]ZL¥_`^V]]V]^X[[[]
@HWI-EAS443:3:1:1137:1174#0/1
ACTTTTTGGACAGTATGGATAGCAAATAGTAGCATTGCC
+HWI-EAS443:3:1:1137:1174#0/1
^^aa`^M`b^]bbaaa`___YLR__a_aa[[OKP`BBBB
@HWI-EAS443:3:1:1227:396#0/1
ACTTTTTGGACAGTATGGATAGCAAATAGTAGCATTGCC
+HWI-EAS443:3:1:1227:396#0/1
[Z_aa`^a^`]T¥a`abba_aa^Y[a`]`_WY]W[_`]ZX
@HWI-EAS443:3:1:1237:1386#0/1
ACTTTTTGGACAGTATGGATAGCAAATAGTAGCATTGCC
+HWI-EAS443:3:1:1237:1386#0/1
a^YS` `b`^`Y]ab^aa`Y[NZ¥P_T`_`[aXX^Y^a_[BB
@HWI-EAS443:3:1:1284:656#0/1
ACTTTTTGGACAGTATGGATAGCAAATAGTAGCATTGCC
+HWI-EAS443:3:1:1284:656#0/1
a`babbab`]Zab^WYabaa`]] [aa`Y[___`UNN]_YBB
@HWI-EAS443:3:1:897:531#0/1
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+HWI-EAS443:3:1:897:531#0/1
aaaa`a`_aaaaW_ZRU¥]_Q^WL^a^^X^HG]X]BBBBB
@HWI-EAS443:3:20:1192:1845#0/1
GTACTTTTTTGGACAGTATGGATAGCAAATAGTAGCATTG
+HWI-EAS443:3:20:1192:1845#0/1
`_b`abaaaa^a` `[aSX]]^^¥^U]aa]`VV[]Q[^_Z
@HWI-EAS443:3:20:145:256#0/1
TACTTTTTTGGACAGTATGGATAGCAAATAGTAGCATTGC
+HWI-EAS443:3:20:145:256#0/1
`baba^^¥¥bV^baaY^a` `aT¥N_a`¥]WHTZ_H¥U]WJ
@HWI-EAS443:3:20:419:510#0/1
GTACTTTTTTGGACAGTATGGATAGCAAATAGTAGCATTG
+HWI-EAS443:3:20:419:510#0/1
^JTR_aaaa`a_____a¥a]^`]U_GS¥`_UWXOY^VSU¥Z
@HWI-EAS443:3:20:545:1328#0/1
GTACTTTTTTGGACAGTATGGATAGCAAATAGTAGCATTG
+HWI-EAS443:3:20:545:1328#0/1
aYa^aa_a`aa[¥[a_[aa^Z_V_¥WZ¥_W]XG`_WZ_[U
@HWI-EAS443:3:20:79:1407#0/1
TTTTTGGACAGTATGGATAGCAAATAGTAGCATTGCCACA
+HWI-EAS443:3:20:79:1407#0/1
aaa`^`^aaa`aU_`^`]^`^XTYa`_U[XX_Z¥^]^U]]^^
@HWI-EAS443:3:21:1318:1721#0/1
TTTTTGGACAGTATGGATAGCAAATAGTAGCATTGCCACA
+HWI-EAS443:3:21:1318:1721#0/1
aaa_aaa^¥]^N^` `[_a¥]^a`YaXVL[¥Q_]W¥GZG[
@HWI-EAS443:3:21:1445:535#0/1
CTTTTTTGGACAGTATGGATAGCAAATAGTAGCATTGCCA
+HWI-EAS443:3:21:1445:535#0/1
abbbbbbbbaaaba`bbbaa`a]aa`aa`_]_a^Waa`_P_
@HWI-EAS443:3:21:306:1710#0/1
TTTTTGGACAGTATGGATAGCAAATAGTAGCATTGCCACA
+HWI-EAS443:3:21:306:1710#0/1
aaaaaaaa`_Za^a_a^][aa`___YY¥W]V¥Z[_`_Z`
@HWI-EAS443:3:21:467:727#0/1
TTTTTGGACAGTATGGATAGCAAATAGTAGCATTGCCACA
+HWI-EAS443:3:21:467:727#0/1
a`ba` `aaaab^`aa]a_Z¥]_aa^^aW^^Z^_V¥[^`H`
@HWI-EAS443:3:21:633:1453#0/1
GTACTTTTTTGGACAGTATGGATAGCAAATAGTAGCATTG
+HWI-EAS443:3:21:633:1453#0/1
a_aaaabaaaa¥`aa^baa` ` `WWa^^_aZY]]G^]`^]
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GGTACTTTTTTGGACAGTATGGATAGCAAATAGTAGCATT
+HWI-EAS443:3:21:69:473#0/1
`b`baaabbbbaaaaa__aaa`a`a^_aaaa¥¥_aa¥_`
@HWI-EAS443:3:21:837:1456#0/1
GTACTTTTTTGGACAGTATGGATAGCAAATAGTAGCATTG
+HWI-EAS443:3:21:837:1456#0/1
`]b`_a]]`¥VJaQN]Ua`SVUS¥V¥[XUXUNYLRRL_`B

@HWI-EAS443:3:22:1497:1910#0/1
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+HWI-EAS443:3:22:1497:1910#0/1
abaaabaa`aa`aaa]`[^Waa`_`ZKY^¥[_^YZWZM_
@HWI-EAS443:3:22:1522:1414#0/1
GTACTTTTTTGGACAGTATGGATAGCAAATAGTAGCATTG
+HWI-EAS443:3:22:1522:1414#0/1
aaYWaaaaaY`W]a¥aaaaZ`]aX_ZYY_]W^`[_Z^
@HWI-EAS443:3:22:1612:901#0/1
TTTGGACAGTATGGATAGCAAATAGTAGCATTGCCACAAC
+HWI-EAS443:3:22:1612:901#0/1
`b]abaab`P_b_`I_[^Rba`b^]NP]X_a_XPY]Y`_^
@HWI-EAS443:3:22:1645:218#0/1
ACTTTTTTGGACAGTATGGATAGCAAATAGTAGCATTGCC
+HWI-EAS443:3:22:1645:218#0/1
a`aaaaaa`aaZ`_____aa`_`¥M¥^`^`]Y]ZR^_^ZTV
@HWI-EAS443:3:22:653:833#0/1
GTACTTTTTTGGACAGTATGGATAGCAAATAGTAGCATTG
+HWI-EAS443:3:22:653:833#0/1
a`Y_`aa^_aaa]`aa¥a`____[WWYZ¥^ZZZV^UO¥[[R
@HWI-EAS443:3:22:680:553#0/1
TTTTTGGACAGTATGGATAGCAAATAGTAGCATTGCCACAA
+HWI-EAS443:3:22:680:553#0/1
abbbbaaa¥¥]aabaaaa`^aaaa]Ya`T]^[_`RM`a
@HWI-EAS443:3:22:981:762#0/1
GTACTTTTTTGGACAGTATGGATAGCAAATAGTAGCATTG
+HWI-EAS443:3:22:981:762#0/1
aaa_abaaaab`]`b]aaa__^^_S^`^^^][V]^YSY^
@HWI-EAS443:3:23:1313:97#0/1
ACTTTTTTGGACAGTATGGATAGCAAATAGTAGCATTGCC
+HWI-EAS443:3:23:1313:97#0/1
`_`ba^aba`_ab`_`_`[aX`¥a`_`Y_PZ¥L]`a_YU
@HWI-EAS443:3:23:1320:188#0/1
TTTTTGGACAGTATGGATAGCAAATAGTAGCATTGCCACA
+HWI-EAS443:3:23:1320:188#0/1
ab_aa`b____`¥aaaa]`¥T_`[^YYRY¥VV¥]ZXX[K¥
@HWI-EAS443:3:23:1467:164#0/1
TACTTTTTTGGACAGTATGGATAGCAAATAGTAGCATTGC
+HWI-EAS443:3:23:1467:164#0/1
X¥G_a_]¥aaX^`_`Waa_aXa`^G[____`S`]NY__SO
@HWI-EAS443:3:23:280:1333#0/1
GTACTTTTTTGGACAGTATGGATAGCAAATAGTAGCATTG
+HWI-EAS443:3:23:280:1333#0/1
a]X_OW_Z^`_`^`^ULTaY]VWV[`_WYQGVWNVSR
@HWI-EAS443:3:23:526:468#0/1
GTACTTTTTTGGACAGTATGGATAGCAAATAGTAGCATTG
+HWI-EAS443:3:23:526:468#0/1
a`aaa`babaaaaaba_a`]a]____¥_a_¥XU^`¥W[^W
@HWI-EAS443:3:23:742:855#0/1
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+HWI-EAS443:3:23:742:855#0/1
__b^a^abbaZa^L^_ZaWQWaXQ_^]V¥QTI¥Y_WZV`¥
@HWI-EAS443:3:23:757:275#0/1
TTTTTGGACAGTATGGATAGCAAATAGTAGCATTGCCACA
+HWI-EAS443:3:23:757:275#0/1
aa`aaaa`_]__a`aa_^THX``[_UFV_XXS[SP_]Y_
@HWI-EAS443:3:24:1328:939#0/1
GTACTTTTTGGACAGTATGGATAGCAAATAGTAGCATTG
+HWI-EAS443:3:24:1328:939#0/1
`baabbbbbbbbaabaaaaa`a``aaaa`a^aaa_``]
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+HWI-EAS443:3:24:1380:1347#0/1
abbbbbbbba`bb``bbaaaa[[aabaZUbaaaaa``Ya
@HWI-EAS443:3:24:197:932#0/1
ACTTTTTGGACAGTATGGATAGCAAATAGTAGCATTGCC
+HWI-EAS443:3:24:197:932#0/1
abbaaaaaa_baa^aaa``_^Z]aa_`_Y_^¥]_`[^`
@HWI-EAS443:3:24:833:1355#0/1
TTTTTGGACAGTATGGATAGCAAATAGTAGCATTGCCACA
+HWI-EAS443:3:24:833:1355#0/1
ab_^Y`_`[_]`_aaaa`]X¥X¥^`]YVP¥¥TS_]U^[X¥_
@HWI-EAS443:3:25:341:146#0/1
TTTGGACAGTATGGATAGCAAATAGTAGCATTGCCACAAC
+HWI-EAS443:3:25:341:146#0/1
abbbbbaaaa^aaaa_```_aa_____Y`][X_`_^¥WZ__W
@HWI-EAS443:3:25:81:656#0/1
GTACTTTTTGGACAGTATGGATAGCAAATAGTAGCATTG
+HWI-EAS443:3:25:81:656#0/1
aW^^````][Z[^]^____]¥VVQ[ZYZ^YOZYTRWP
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+HWI-EAS443:3:26:1216:1428#0/1
aXSU_``a]__¥`U`a¥P¥YY_QZ``^¥QR[XLX^XP¥¥P
@HWI-EAS443:3:26:1609:1159#0/1
GTACTTTTTGGACAGTATGGATAGCAAATAGTAGCATTG
+HWI-EAS443:3:26:1609:1159#0/1
a[_¥aaaaaaaa`^aa`aaa`_`_^¥```Y[XV^YJVY[S
@HWI-EAS443:3:26:500:149#0/1
GTACTTTTTGGACAGTATGGATAGCAAATAGTAGCATTG
+HWI-EAS443:3:26:500:149#0/1
aX^_aaaa`]a^_^_]_^_]^^^```_Y^[X^YWPYX
@HWI-EAS443:3:26:618:572#0/1
GTACTTTTTGGACAGTATGGATAGCAAATAGTAGCATTG
+HWI-EAS443:3:26:618:572#0/1
a`aaabbaaa_a_aaa[_`aa`¥[[S_a____ZT_]X_]_W
@HWI-EAS443:3:26:73:128#0/1
CTTTTTGGACAGTATGGATAGCAAATAGTAGCATTGCCA
+HWI-EAS443:3:26:73:128#0/1
aaaabaaa_`_a^`__`^^[^``¥UUTXN^^¥SV[PW¥X

@HWI-EAS443:3:26:945:974#0/1
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+HWI-EAS443:3:26:945:974#0/1
aaabbaabaa`a`N_aa^`a_^Y^aa[a^T[`]W__^X^^
@HWI-EAS443:3:26:961:1363#0/1
GTACTTTTTGGACAGTATGGATAGCAAATAGTAGCATTG
+HWI-EAS443:3:26:961:1363#0/1
]FOT_]a__a]YZZ¥Y¥a`aa_XUKMZ`XRUMOZRGVUGF
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+HWI-EAS443:3:27:1040:952#0/1
aba`abaaaab]aaa`_a^]V]``__^X_`VY^`YY__[`
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TTGGACAGTATGGATAGCAAATAGTAGCATTGCCACA
+HWI-EAS443:3:27:52:521#0/1
abaaaaaa^aaaaa_a`a_a[^¥¥P]^R`V^¥`YDU_a_X
@HWI-EAS443:3:27:633:1134#0/1
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+HWI-EAS443:3:27:633:1134#0/1
abba`abab_bbaaa`_Y^aaa^_ZUa`_VYaY`a__a_
@HWI-EAS443:3:27:838:237#0/1
GTACTTTTTGGACAGTATGGATAGCAAATAGTAGCATTG
+HWI-EAS443:3:27:838:237#0/1
a]_aaaa^`_]_RT^__S`___X^YST¥__VWSU^YLVYZV
@HWI-EAS443:3:28:1086:928#0/1
GTACTTTTTGGACAGTATGGATAGCAAATAGTAGCATTG
+HWI-EAS443:3:28:1086:928#0/1
a[^^^`aaaa^`_`Z`a]`^a`^^^¥R^`_Y^XU¥]PYW_
@HWI-EAS443:3:28:1359:1134#0/1
GTACTTTTTGGACAGTATGGATAGCAAATAGTAGCATTG
+HWI-EAS443:3:28:1359:1134#0/1
Ya¥S¥```a_X__¥`_S]`_`_Z_YWZ_YXXV]W¥XT^Y^V
@HWI-EAS443:3:28:1453:1605#0/1
GGTACTTTTTGGACAGTATGGATAGCAAATAGTAGCATT
+HWI-EAS443:3:28:1453:1605#0/1
aa]aabababaaa__aa^`aa`_`_`Y___Z]]W``¥X¥^
@HWI-EAS443:3:29:1371:189#0/1
GTACTTTTTGGACAGTATGGATAGCAAATAGTAGCATTG
+HWI-EAS443:3:29:1371:189#0/1
a_SU_]a]_`UUOYU^[^][US[QOOXPVTRFX¥BBBBB
@HWI-EAS443:3:29:758:492#0/1
ACTTTTTGGACAGTATGGATAGCAAATAGTAGCATTGCC
+HWI-EAS443:3:29:758:492#0/1
_¥bbabbb_baa`b`babb`aaa]aaaa^a^aa^a_``[]
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+HWI-EAS443:3:2:1231:1780#0/1
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@HWI-EAS443:3:2:1379:1409#0/1
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+HWI-EAS443:3:2:1379:1409#0/1
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@HWI-EAS443:3:2:1442:397#0/1
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+HWI-EAS443:3:2:1442:397#0/1
a`a^aaaaaaaa_`a`aaa__^^¥¥^_]_X^]WY]^P
@HWI-EAS443:3:2:1636:656#0/1
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+HWI-EAS443:3:2:1636:656#0/1
abaaabbbba`aa[aaaa__a_U`aa]__ZaaW__a]YX]
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+HWI-EAS443:3:2:898:332#0/1
a`bbb`bbbaa_aa^_abb^`_aV__a]¥V¥aX^`_XSU
@HWI-EAS443:3:30:1112:117#0/1
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+HWI-EAS443:3:30:1112:117#0/1
`b`b`ab[V_bZ[_bTb`bb[a____`_a_]¥W`[NX^`VQ
@HWI-EAS443:3:30:368:255#0/1
CAAGGTACTTTTTTGGACAGTATGGATAGCAAATAGTAGC
+HWI-EAS443:3:30:368:255#0/1
aaba^D]b_`bbbbbaaaaa_aaaaa_`a]aaa_a_[`_`a
@HWI-EAS443:3:30:414:1225#0/1
GTACTTTTTTGGACAGTATGGATAGCAAATAGTAGCATTG
+HWI-EAS443:3:30:414:1225#0/1
¥¥bba^aaab`Y`abaR`^a`^^`]^a^[QXVSYV]RZ__
@HWI-EAS443:3:30:490:1485#0/1
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+HWI-EAS443:3:30:490:1485#0/1
P__¥`a^¥]_a]L____^[____]^a`_`¥]Z¥WXVX``ZQQ
@HWI-EAS443:3:30:743:1727#0/1
GTACTTTTTTGGACAGTATGGATAGCAAATAGTAGCATTG
+HWI-EAS443:3:30:743:1727#0/1
a[_Y¥^[^ba`aaaba]aaa^_YVN][a`X]ZS`XN_W`X
@HWI-EAS443:3:31:1194:347#0/1
GGTACTTTTTTGGACAGTATGGATAGCAAATAGTAGCATT
+HWI-EAS443:3:31:1194:347#0/1
aa[a`a__aabaa_`aa]a____[^]ZR¥a¥Y[_J`XTZ__
@HWI-EAS443:3:31:1447:1744#0/1
TACTTTTTTGGACAGTATGGATAGCAAATAGTAGCATTGC
+HWI-EAS443:3:31:1447:1744#0/1
T¥^b^b_a^```ba_ZZW_^]¥Z¥a^X_YD¥]_Zaa]`
@HWI-EAS443:3:31:1496:1153#0/1
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+HWI-EAS443:3:31:1496:1153#0/1
]¥Ja^_Y_bb`^^^Y`_Z_a`a¥_`a`_X_XOO[]X^_T
@HWI-EAS443:3:31:397:717#0/1
TTTTTGGACAGTATGGATAGCAAATAGTAGCATTGCCACA
+HWI-EAS443:3:31:397:717#0/1
aaaaaaaa`¥Z_aa_]PV¥aa`VVTT]YVUS]R¥_J[^

@HWI-EAS443:3:31:466:2011#0/1
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+HWI-EAS443:3:31:466:2011#0/1
a`W` [¥_X^^a^[LQY___^¥Q¥¥`_Z`POWKW[W]G` `Y
@HWI-EAS443:3:32:1571:1185#0/1
GTACTTTTTTGGACAGTATGGATAGCAAATAGTAGCATTG
+HWI-EAS443:3:32:1571:1185#0/1
a]WQa^Q_a_X_[a_¥N[Y[]BBBBBBBBBBBBBBBBBBB
@HWI-EAS443:3:32:233:933#0/1
TTTGGACAGTATGGATAGCAAATAGTAGCATTGCCACAAC
+HWI-EAS443:3:32:233:933#0/1
ab`_¥`Z[]^¥a_Z` `]]]¥aa[]GY^F¥^TUOZa]_SK]
@HWI-EAS443:3:32:370:711#0/1
GTACTTTTTTGGACAGTATGGATAGCAAATAGTAGCATTG
+HWI-EAS443:3:32:370:711#0/1
XZabbbabb` `babb¥V^a`aaa_Y_aaa_RJYZMGW_]`
@HWI-EAS443:3:32:859:870#0/1
CTTTTTTGGACAGTATGGATAGCAAATAGTAGCATTGCCA
+HWI-EAS443:3:32:859:870#0/1
abaabbbabaaab¥` `b`XM[_aa[a^`_Q`aa¥Y^Taaa
@HWI-EAS443:3:32:908:72#0/1
GTACTTTTTTGGACAGTATGGATAGCAAATAGTAGCATTG
+HWI-EAS443:3:32:908:72#0/1
a` ` `aaaaa^_YY^_Y^` `YW[SYMP^]¥][SXRELX^U
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+HWI-EAS443:3:33:1596:403#0/1
aVU^a¥OZ_R^a]R¥aW`a]Y[]¥[SQ_YW¥YQUOMNWYL
@HWI-EAS443:3:33:1603:1391#0/1
GTACTTTTTTGGACAGTATGGATAGCAAATAGTAGCATTG
+HWI-EAS443:3:33:1603:1391#0/1
` []`_aaaaa`^^`a^` `a`Y_Y[VX_¥][QG]SQTUZQ
@HWI-EAS443:3:33:57:1843#0/1
GTACTTTTTTGGACAGTATGGATAGCAAATAGTAGCATTG
+HWI-EAS443:3:33:57:1843#0/1
a`ab`aabbb`Uaaba^`a[^a_[O__O_[`LT^Y[_]¥U
@HWI-EAS443:3:33:745:1808#0/1
TTTGGACAGTATGGATAGCAAATAGTAGCATTGCCACAAC
+HWI-EAS443:3:33:745:1808#0/1
¥]b[`ba^^[b^UU` [SHS_b`K_ZIWQWU_YFM]^]^_Q
@HWI-EAS443:3:34:1007:739#0/1
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+HWI-EAS443:3:34:1007:739#0/1
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@HWI-EAS443:3:34:130:868#0/1
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+HWI-EAS443:3:34:130:868#0/1
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a)aaaaabaaa`aaaa_a`aa^Y^[SY^`¥XZXMRR[[B
@HWI-EAS443:3:34:1624:1354#0/1
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+HWI-EAS443:3:34:1624:1354#0/1
X^^abaSYbV]ba`][abaabaZITQ]^`R^XBBBBBBBB
@HWI-EAS443:3:34:463:1313#0/1
TACTTTTTGGACAGTATGGATAGCAAATAGTAGCATTGC
+HWI-EAS443:3:34:463:1313#0/1
a_baaaaaaaa`^]aa`[_`¥W_aa]O]UV`Z^^U[VW
@HWI-EAS443:3:34:92:167#0/1
ACTTTTTGGACAGTATGGATAGCAAATAGTAGCATTGCC
+HWI-EAS443:3:34:92:167#0/1
aaaaaabaa`aa_aZa^aa^_]_^`_N[WQZ^_XX[ZQ_
@HWI-EAS443:3:35:1090:26#0/1
ACTTTTTGGACAGTATGGATAGCAAATAGTAGCATTGCC
+HWI-EAS443:3:35:1090:26#0/1
a_0[a]bZY[Y`^`Y[[Y]_aU_W[_`X]]W[_YYPYD
@HWI-EAS443:3:35:1131:915#0/1
GTACTTTTTGGACAGTATGGATAGCAAATAGTAGCATTG
+HWI-EAS443:3:35:1131:915#0/1
a`aabaa`aa]`_`_S]`a_a`XUTaXQR[[P[YYZWWW
@HWI-EAS443:3:35:122:2029#0/1
TTTTGGACAGTATGGATAGCAAATAGTAGCATTGCCACA
+HWI-EAS443:3:35:122:2029#0/1
_¥¥`^`]^aZWZWZ`[[Z]YW^a_V¥WNY^_UY¥U^UOP_
@HWI-EAS443:3:35:1737:1058#0/1
CTTTTTGGACAGTATGGATAGCAAATAGTAGCATTGCCA
+HWI-EAS443:3:35:1737:1058#0/1
P_bb_b_b_`a¥ba_Iaa^^Y^b^`^^V¥G_V_¥aaYOP¥
@HWI-EAS443:3:36:118:1536#0/1
GTACTTTTTGGACAGTATGGATAGCAAATAGTAGCATTG
+HWI-EAS443:3:36:118:1536#0/1
Rb`]aa¥a]^`]ba`^^^VZKPP_JWSTDMY[MQM[¥
@HWI-EAS443:3:36:1315:1899#0/1
ACTTTTTGGACAGTATGGATAGCAAATAGTAGCATTGCC
+HWI-EAS443:3:36:1315:1899#0/1
aababaaaaaa_aa`aaa__a^Z^aaaY`][_[U_^aWYa
@HWI-EAS443:3:36:899:201#0/1
TTTGGACAGTATGGATAGCAAATAGTAGCATTGCCACAAC
+HWI-EAS443:3:36:899:201#0/1
aaaa___W_^`^^`^^]ZX]a^^¥YV¥WZOSTVTXZ¥WZT
@HWI-EAS443:3:37:1538:918#0/1
TTTTGGACAGTATGGATAGCAAATAGTAGCATTGCCACA
+HWI-EAS443:3:37:1538:918#0/1
abab^b`aaba_`aaa_¥WZaa`aaaYYW`^aa__`__^
@HWI-EAS443:3:37:819:1689#0/1
GTACTTTTTGGACAGTATGGATAGCAAATAGTAGCATTG
+HWI-EAS443:3:37:819:1689#0/1
a_a_0_bb_aXPVa_YV_[Yaa]`X`_]KGDmXKUN_^M

@HWI-EAS443:3:38:1108:1401#0/1
CTTTTTTGGACAGTATGGATAGCAAATAGTAGCATTGCCA
+HWI-EAS443:3:38:1108:1401#0/1
aaaaa^a¥U[[[]]XYWZWT¥VX]SV[YQORR[[¥YV[Q
@HWI-EAS443:3:38:1392:322#0/1
GTACTTTTTTGGACAGTATGGATAGCAAATAGTAGCATTG
+HWI-EAS443:3:38:1392:322#0/1
a`¥_aaaaa__[]_a]`a_a^^_ZEU[WURZQQPZ¥¥R
@HWI-EAS443:3:38:1452:1412#0/1
GTACTTTTTTGGACAGTATGGATAGCAAATAGTAGCATTG
+HWI-EAS443:3:38:1452:1412#0/1
`¥[aaa`^aaa^_]_aVMY¥[X¥¥WYa^`VTNQYUPV[]]Q
@HWI-EAS443:3:38:347:1904#0/1
GTACTTTTTTGGACAGTATGGATAGCAAATAGTAGCATTG
+HWI-EAS443:3:38:347:1904#0/1
aabbaaaabaa¥Ra__V^^a`[W^Z^ab^]OG`YP_¥_W
@HWI-EAS443:3:38:595:641#0/1
GGTACTTTTTTGGACAGTATGGATAGCAAATAGTAGCATT
+HWI-EAS443:3:38:595:641#0/1
aaUY`a_a__`__a¥aTT¥`aY^_¥Z`^¥X¥XWZ]]XXW
@HWI-EAS443:3:39:1116:1113#0/1
GTACTTTTTTGGACAGTATGGATAGCAAATAGTAGCATTG
+HWI-EAS443:3:39:1116:1113#0/1
a_b`aaaaaaaa^`_]`_a_^]]V_^`R_JXZ`UO[`P
@HWI-EAS443:3:39:233:1030#0/1
GGTACTTTTTTGGACAGTATGGATAGCAAATAGTAGCATT
+HWI-EAS443:3:39:233:1030#0/1
[]D¥XXS_YU`¥`]QY^R`QW¥TU[VSW_HLZ[L_`^[[X
@HWI-EAS443:3:39:800:501#0/1
GTACTTTTTTGGACAGTATGGATAGCAAATAGTAGCATTG
+HWI-EAS443:3:39:800:501#0/1
a_aaaaaaabaa`_`aZ`_`_¥^[[[^_][¥XY^`YYY^T
@HWI-EAS443:3:3:1010:787#0/1
GTACTTTTTTGGACAGTATGGATAGCAAATAGTAGCATTG
+HWI-EAS443:3:3:1010:787#0/1
aa]^bbbbbbbaaa`aa`aabbaa_a_a`a__a_]ZU_`]
@HWI-EAS443:3:3:1065:585#0/1
ACTTTTTTGGACAGTATGGATAGCAAATAGTAGCATTGCC
+HWI-EAS443:3:3:1065:585#0/1
aabbabbbba`aa`aaa`__[V_`¥]`[F[]UV^^YW¥
@HWI-EAS443:3:3:1270:1030#0/1
ACTTTTTTGGACAGTATGGATAGCAAATAGTAGCATTGCC
+HWI-EAS443:3:3:1270:1030#0/1
`b^[aVb`aa¥bb¥babaV`aa`aa_^`aT_]¥NYWWB
@HWI-EAS443:3:40:1195:1716#0/1
TTTTTGGACAGTATGGATAGCAAATAGTAGCATTGCCACA
+HWI-EAS443:3:40:1195:1716#0/1
aaa`a`X[^]YU^_Y[Y_VTX_a¥VSPSWOJYY[X``____
@HWI-EAS443:3:40:1296:1449#0/1
TTTTTGGACAGTATGGATAGCAAATAGTAGCATTGCCACA

+HWI-EAS443:3:40:1296:1449#0/1
aaa`a_a^`^^`[[^`[X¥`a^X¥ZT^ZX^]^]_a]^`^
@HWI-EAS443:3:42:1125:119#0/1
GTACTTTTTTGGACAGTATGGATAGCAAATAGTAGCATTG
+HWI-EAS443:3:42:1125:119#0/1
aaa_bbababba__ab^`aa_a__^`__a_]^[^]]_`^U
@HWI-EAS443:3:42:1135:1220#0/1
GGTACTTTTTTGGACAGTATGGATAGCAAATAGTAGCATT
+HWI-EAS443:3:42:1135:1220#0/1
ab_^Y^`b`[XXTa[[_`Z^`a¥_VXX]WWaP`^R`KQ``
@HWI-EAS443:3:42:113:1965#0/1
ACTTTTTTGGACAGTATGGATAGCAAATAGTAGCATTGCC
+HWI-EAS443:3:42:113:1965#0/1
aa]a]ab`a^^a_V_aa]^`ZQ^[WXaa_VKO^WPWX^U__
@HWI-EAS443:3:42:1501:1148#0/1
TTTGGACAGTATGGATAGCAAATAGTAGCATTGCCACAAC
+HWI-EAS443:3:42:1501:1148#0/1
V``[[`¥_]ba_^`a^^]a`[```VYW¥UaZUW__[¥TU
@HWI-EAS443:3:42:1783:1748#0/1
GTACTTTTTTGGACAGTATGGATAGCAAATAGTAGCATTG
+HWI-EAS443:3:42:1783:1748#0/1
`]^`a`b_^YW_^[aa`]_`a^Z¥PUZ`]¥¥OMSWRTN¥G
@HWI-EAS443:3:42:466:197#0/1
GTACTTTTTTGGACAGTATGGATAGCAAATAGTAGCATTG
+HWI-EAS443:3:42:466:197#0/1
¥D¥`bba`aa`^^a_b^a`a`a`^`_aa_W]YN`Z[Z`^
@HWI-EAS443:3:43:1246:1109#0/1
TTTTTGGACAGTATGGATAGCAAATAGTAGCATTGCCACA
+HWI-EAS443:3:43:1246:1109#0/1
abbbabbbbab¥aab`ba`ab_aa`^XaaPXabY_`¥^`
@HWI-EAS443:3:43:1268:565#0/1
CTTTTTTGGACAGTATGGATAGCAAATAGTAGCATTGCCA
+HWI-EAS443:3:43:1268:565#0/1
ababbbbbbaabb`abbbaa`a]^`__¥[V^^V[``_]W
@HWI-EAS443:3:43:212:91#0/1
TACTTTTTTGGACAGTATGGATAGCAAATAGTAGCATTGC
+HWI-EAS443:3:43:212:91#0/1
aaaa_aaaabb_]a`]_`aa`X`Y[```¥aSQN`ZU[¥]^R
@HWI-EAS443:3:43:30:1979#0/1
TTTTTGGACAGTATGGATAGCAAATAGTAGCATTGCCACA
+HWI-EAS443:3:43:30:1979#0/1
aabaaa^a`b`[aa¥a^aUQ_aaT]VYSOPT]_NVXLU[
@HWI-EAS443:3:44:1350:1278#0/1
CTTTTTTGGACAGTATGGATAGCAAATAGTAGCATTGCCA
+HWI-EAS443:3:44:1350:1278#0/1
abbbbbbbaa`abb`ba_]MR^^SYa¥I¥_R]YHQ]_WWZ[
@HWI-EAS443:3:44:1441:1015#0/1
GTACTTTTTTGGACAGTATGGATAGCAAATAGTAGCATTG
+HWI-EAS443:3:44:1441:1015#0/1
a_`^aaaaaaaaaa_aa^`a__^^[[____Z[TU¥_ZWZVS

@HWI-EAS443:3:44:1751:897#0/1
ACTTTTTTGGACAGTATGGATAGCAAATAGTAGCATTGCC
+HWI-EAS443:3:44:1751:897#0/1
UW_a`b_Z_Z`^a][^aR`Z_XX¥`]]XJYZZZ^XWRQ
@HWI-EAS443:3:44:380:476#0/1
ACTTTTTTGGACAGTATGGATAGCAAATAGTAGCATTGCC
+HWI-EAS443:3:44:380:476#0/1
_abbbababaaabb_a`aa`__`a`a]`_Q_a]]^a]^Z
@HWI-EAS443:3:44:439:656#0/1
TACTTTTTTGGACAGTATGGATAGCAAATAGTAGCATTGC
+HWI-EAS443:3:44:439:656#0/1
aa^aaaaaaa_a__`_]aaa]Y_]_]_a_]_]_0^VMT^`WT
@HWI-EAS443:3:44:940:492#0/1
ACTTTTTTGGACAGTATGGATAGCAAATAGTAGCATTGCC
+HWI-EAS443:3:44:940:492#0/1
UY^^[^`aZ_]¥]QU^VT^[NZY[S_N^L]`P¥aaa¥S
@HWI-EAS443:3:44:994:2042#0/1
CTTTTTTGGACAGTATGGATAGCAAATAGTAGCATTGCCA
+HWI-EAS443:3:44:994:2042#0/1
abbbbbbb`baababbaaaa_baaab`^aa^aaa^SYa
@HWI-EAS443:3:45:1324:407#0/1
TGGACAGTATGGATAGCAAATAGTAGCATTGCCACAATA
+HWI-EAS443:3:45:1324:407#0/1
[b_`b]b]aaa`]`¥YW[a]YZYJY_PUW``_`aY^0S`]
@HWI-EAS443:3:45:1723:1248#0/1
GGTACTTTTTTGGACAGTATGGATAGCAAATAGTAGCATT
+HWI-EAS443:3:45:1723:1248#0/1
aa]a`abaaaa`^^`a]__aa^_¥¥T__^^¥¥X¥YVS^]
@HWI-EAS443:3:45:827:1685#0/1
GTACTTTTTTGGACAGTATGGATAGCAAATAGTAGCATTG
+HWI-EAS443:3:45:827:1685#0/1
T__`bbbbbb]W_S¥¥GZ_0^^^]NF]bb¥SYE[WLLW]^
@HWI-EAS443:3:46:1627:1671#0/1
GTACTTTTTTGGACAGTATGGATAGCAAATAGTAGCATTG
+HWI-EAS443:3:46:1627:1671#0/1
¥VXJX_aaZaXTQOP]QZ]aaWVOJV[YKKNWJYBBBBB
@HWI-EAS443:3:46:270:1548#0/1
TTTTGGACAGTATGGATAGCAAATAGTAGCATTGCCACAA
+HWI-EAS443:3:46:270:1548#0/1
ababaaa]`¥__`a`_``[¥`__`__WW¥TYY^]^XU_V__
@HWI-EAS443:3:47:1265:48#0/1
GTACTTTTTTGGACAGTATGGATAGCAAATAGTAGCATTG
+HWI-EAS443:3:47:1265:48#0/1
a_`^aaaaaaa`]^`a¥]____]^X[T¥]YTX[TU¥UV¥]X
@HWI-EAS443:3:47:172:297#0/1
CTTTTTTGGACAGTATGGATAGCAAATAGTAGCATTGCCA
+HWI-EAS443:3:47:172:297#0/1
ab]__b]^bbbb`Ia¥¥SRa_a`aa`¥UIa[ZZ¥^XHH[
@HWI-EAS443:3:47:53:438#0/1
ACTTTTTTGGACAGTATGGATAGCAAATAGTAGCATTGCC

+HWI-EAS443:3:47:53:438#0/1
aababbbba_aaaa`aaaa`a[Vaa__XSO]`X¥^aWU[
@HWI-EAS443:3:47:70:67#0/1
GTACTTTTTGGACAGTATGGATAGCAAATAGTAGCATTG
+HWI-EAS443:3:47:70:67#0/1
a^)`baaaaaa^¥`]¥_`^_¥]OTIX_¥NSMOPYVXTL
@HWI-EAS443:3:47:861:1929#0/1
ACTTTTTGGACAGTATGGATAGCAAATAGTAGCATTGCC
+HWI-EAS443:3:47:861:1929#0/1
`ab^^a`]¥R[a`RR`_]_[[¥¥T^`_]`ZU[ZNSWXYLU
@HWI-EAS443:3:48:1230:254#0/1
ACTTTTTGGACAGTATGGATAGCAAATAGTAGCATTGCC
+HWI-EAS443:3:48:1230:254#0/1
abbaabbbabaabaa_aaa_`][[aaa_^¥Y¥^T[_a_¥¥
@HWI-EAS443:3:48:1315:871#0/1
CTTTTTGGACAGTATGGATAGCAAATAGTAGCATTGCCA
+HWI-EAS443:3:48:1315:871#0/1
abbbbbbbba`aa_aabba`a`_aaaa__Za`P¥_a[^a]
@HWI-EAS443:3:48:1552:638#0/1
TTTTGGACAGTATGGATAGCAAATAGTAGCATTGCCACA
+HWI-EAS443:3:48:1552:638#0/1
aaaaaaaa`_ab_a`a[]`__Y__^W`^X_[UUZ_WUYXS¥
@HWI-EAS443:3:48:44:1486#0/1
TTTGGACAGTATGGATAGCAAATAGTAGCATTGCCACAAC
+HWI-EAS443:3:48:44:1486#0/1
__][Z]`¥^TZ¥`_[U[XY^a`TRSO]Z]V^]VO]YLU¥Z
@HWI-EAS443:3:48:474:1567#0/1
GTACTTTTTGGACAGTATGGATAGCAAATAGTAGCATTG
+HWI-EAS443:3:48:474:1567#0/1
a^`aaaaaaaa`_aa^`^^__¥¥Q]`_[¥WM^[ZZZ¥P
@HWI-EAS443:3:48:500:121#0/1
CTTTTTGGACAGTATGGATAGCAAATAGTAGCATTGCCA
+HWI-EAS443:3:48:500:121#0/1
abbbabbbb`aaa^aabba`^]a`a__U`_Z_¥^_^_`
@HWI-EAS443:3:49:1558:92#0/1
GTACTTTTTGGACAGTATGGATAGCAAATAGTAGCATTG
+HWI-EAS443:3:49:1558:92#0/1
a)^_aaaaaaaa^_a`¥`_`_RS__[OV¥^^X[GQYJQZ_V
@HWI-EAS443:3:49:1595:1171#0/1
TACTTTTTGGACAGTATGGATAGCAAATAGTAGCATTGC
+HWI-EAS443:3:49:1595:1171#0/1
ab`aaaaa`a__a`aa_]__aa]`a`U^]UXa_YS
@HWI-EAS443:3:49:1605:359#0/1
CTTTTTGGACAGTATGGATAGCAAATAGTAGCATTGCCA
+HWI-EAS443:3:49:1605:359#0/1
[a¥^_bb^b¥Z`babb`aS__a_a`][^`_`^^SSaa
@HWI-EAS443:3:49:232:1363#0/1
GGTACTTTTTGGACAGTATGGATAGCAAATAGTAGCATT
+HWI-EAS443:3:49:232:1363#0/1
ab_aaaabbbbaZ`a``¥aaaa`^]Xa_a][TO`[U_[X

@HWI-EAS443:3:49:414:218#0/1
TTTTTGGACAGTATGGATAGCAAATAGTAGCATTGCCACA
+HWI-EAS443:3:49:414:218#0/1
`PGNWX_a`TYYa`]P[__WUS][F]_QFZROGO[R[
@HWI-EAS443:3:49:708:1295#0/1
ACTTTTTGGACAGTATGGATAGCAAATAGTAGCATTGCC
+HWI-EAS443:3:49:708:1295#0/1
abbbbbbbabbbbaYabbbba^`Xaaba`ZOa¥¥`aa^a
@HWI-EAS443:3:4:1520:1447#0/1
ACTTTTTGGACAGTATGGATAGCAAATAGTAGCATTGCC
+HWI-EAS443:3:4:1520:1447#0/1
a[a^_^¥YW_[a__T_`ba^aXZ]^`aYNFONIL^¥VBB
@HWI-EAS443:3:4:352:193#0/1
GGTACTTTTTGGACAGTATGGATAGCAAATAGTAGCATT
+HWI-EAS443:3:4:352:193#0/1
a_G`_`aba]]_`a`_`[aa[_Q__aX^___WPQ]`XW[^
@HWI-EAS443:3:4:513:1228#0/1
TTTTTGGACAGTATGGATAGCAAATAGTAGCATTGCCACA
+HWI-EAS443:3:4:513:1228#0/1
`_`a`_W_^b^[_aaa`¥¥PT¥a_`_`H]aYYT]]]]]Y_
@HWI-EAS443:3:4:809:313#0/1
GTACTTTTTGGACAGTATGGATAGCAAATAGTAGCATTG
+HWI-EAS443:3:4:809:313#0/1
V]¥`a`]`a`_`a^0¥aa]¥`^]T[^`_Z¥0^]GZ]¥Z
@HWI-EAS443:3:50:1646:1346#0/1
GTACTTTTTGGACAGTATGGATAGCAAATAGTAGCATTG
+HWI-EAS443:3:50:1646:1346#0/1
a¥aabbabbbab`a_baaaba`_`_`aaaa^Z^`_`¥¥^`_
@HWI-EAS443:3:50:1661:171#0/1
GTACTTTTTGGACAGTATGGATAGCAAATAGTAGCATTG
+HWI-EAS443:3:50:1661:171#0/1
a¥]¥aaabbaa]]S_bUT]`SW¥ZV`_`_`^XZ[LQUZV
@HWI-EAS443:3:50:270:1364#0/1
GTACTTTTTGGACAGTATGGATAGCAAATAGTAGCATTG
+HWI-EAS443:3:50:270:1364#0/1
aaa^aaaaa`a`^¥_]`__``[WWDW_`Y[XN[XQRV¥T
@HWI-EAS443:3:50:686:1089#0/1
ACTTTTTGGACAGTATGGATAGCAAATAGTAGCATTGCC
+HWI-EAS443:3:50:686:1089#0/1
aaabbbbbbaabbb`bbbbaaaaa_`^^^U_]G]aaZ¥^
@HWI-EAS443:3:50:983:1125#0/1
CTTTTTGGACAGTATGGATAGCAAATAGTAGCATTGCCA
+HWI-EAS443:3:50:983:1125#0/1
b¥aabbbb¥abb¥`b^bbbababab`TV]¥V_] [HXZa
@HWI-EAS443:3:51:1255:1237#0/1
GTACTTTTTGGACAGTATGGATAGCAAATAGTAGCATTG
+HWI-EAS443:3:51:1255:1237#0/1
`X``]Zaaa]aa^OT[W]S^TVNGZY]Y]¥UKBBBBBBBB
@HWI-EAS443:3:51:1318:1456#0/1
TTTTTGGACAGTATGGATAGCAAATAGTAGCATTGCCACA

+HWI-EAS443:3:51:1318:1456#0/1
`abaaa_a_]b_abaaa`^N]aa^VZ]a[JZaa^[^^S_
@HWI-EAS443:3:51:1551:789#0/1
GTACTTTTTTGGACAGTATGGATAGCAAATAGTAGCATTG
+HWI-EAS443:3:51:1551:789#0/1
_]aabbbbaabaabaabaaaaaa_Xaaa_¥G`a_¥a``
@HWI-EAS443:3:51:217:1797#0/1
GTACTTTTTTGGACAGTATGGATAGCAAATAGTAGCATTG
+HWI-EAS443:3:51:217:1797#0/1
aa`abaaaaaaa`ab_aa`_``¥¥aa`^^[W][¥¥_^[
@HWI-EAS443:3:51:421:842#0/1
GTACTTTTTTGGACAGTATGGATAGCAAATAGTAGCATTG
+HWI-EAS443:3:51:421:842#0/1
aWZ¥a``aaaa_Z^`XT¥a_Y_^¥PTY¥NV[SZ¥OTXXW
@HWI-EAS443:3:51:817:552#0/1
CTTTTTTGGACAGTATGGATAGCAAATAGTAGCATTGCCA
+HWI-EAS443:3:51:817:552#0/1
`^`^bbbbb]R^^ab___]VT]b^`^TS^ZZVZ_ZFR^
@HWI-EAS443:3:51:864:950#0/1
GTACTTTTTTGGACAGTATGGATAGCAAATAGTAGCATTG
+HWI-EAS443:3:51:864:950#0/1
a_aaabbbbabaa`a`aa_a_^_YW^aa_[UV[ZXYaZG
@HWI-EAS443:3:52:1147:453#0/1
GTACTTTTTTGGACAGTATGGATAGCAAATAGTAGCATTG
+HWI-EAS443:3:52:1147:453#0/1
a]W`aaaaa``aaaaa^_`^`^_W[W[_^T^X[^_Y¥[VJ
@HWI-EAS443:3:52:1162:755#0/1
GTACTTTTTTGGACAGTATGGATAGCAAATAGTAGCATTG
+HWI-EAS443:3:52:1162:755#0/1
a`aaaabbbbaa`_`_a]a`X`]]^U````_¥Z___]W^¥U
@HWI-EAS443:3:52:307:1119#0/1
ACTTTTTTGGACAGTATGGATAGCAAATAGTAGCATTGCC
+HWI-EAS443:3:52:307:1119#0/1
S_^`a]b_¥R_ZaaU`_^¥aa]^]V]^]SX^[WX`ZOMP
@HWI-EAS443:3:52:426:324#0/1
ACTTTTTTGGACAGTATGGATAGCAAATAGTAGCATTGCC
+HWI-EAS443:3:52:426:324#0/1
`_aaaabaaa`]^`a^aaa`___[P^_X^]UW_¥^]¥VVY
@HWI-EAS443:3:53:1128:1650#0/1
GTACTTTTTTGGACAGTATGGATAGCAAATAGTAGCATTG
+HWI-EAS443:3:53:1128:1650#0/1
`^[¥aaaaaaba^¥aa]a_^a___`S`_]`^¥U^¥¥U¥^U
@HWI-EAS443:3:53:1785:1742#0/1
GTACTTTTTTGGACAGTATGGATAGCAAATAGTAGCATTG
+HWI-EAS443:3:53:1785:1742#0/1
a¥¥`aaa```_a`Z¥WY[]]YORIS]XW]OLPRYBBBBBB
@HWI-EAS443:3:54:1464:1969#0/1
AGGAGTGCCTGATTAATGATCCCTGGGTTTTGCTTAATGC
+HWI-EAS443:3:54:1464:1969#0/1
`a`^¥aaaYbb^bbaaaYX_Y_aaaVO¥baaUa`aa_ZN

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@HWI-EAS443:3:55:774:1963#0/1
GTACTTTTTTGGACAGTATGGATAGCAAATAGTAGCATTG
+HWI-EAS443:3:55:774:1963#0/1
a^aa^aa_a[Z]XTaa^`_X_^[SV____`WTG^NFZS_U
@HWI-EAS443:3:56:1033:1708#0/1
TTGGACAGTATGGATAGCAAATAGTAGCATTGCCACA
+HWI-EAS443:3:56:1033:1708#0/1
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@HWI-EAS443:3:56:1705:1289#0/1
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+HWI-EAS443:3:56:1705:1289#0/1
`_`aa`aaaa`G_WFUaa_]_^XS_^P^XXSMTY__VY
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+HWI-EAS443:3:57:1123:1051#0/1
aaaaaaa`aaa]^aa_a^ZV]^`_¥[V_a¥^`^[XXXS]
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+HWI-EAS443:3:57:1411:511#0/1
_baabbbbbbbbaa`baa`ab_a^[]a`aaa^PR[DHZ[`
@HWI-EAS443:3:57:1718:908#0/1
GTACTTTTTTGGACAGTATGGATAGCAAATAGTAGCATTG
+HWI-EAS443:3:57:1718:908#0/1
`Z¥N^``bbbbbaa``_aa`a`_YZTa_aaXORY`XZ_a¥
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+HWI-EAS443:3:57:317:1202#0/1
^`a^^¥XaN`a`]^_a^^`¥T[U]aZ^`_^[^^X]XYQB
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ACTTTTTTGGACAGTATGGATAGCAAATAGTAGCATTGCC
+HWI-EAS443:3:57:840:667#0/1
a`baabbbbbbaaab`ab`b_a`^R_`^[]X¥¥TY``]^
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a`_¥aaa^a_aaaV^^`[^`^XLZaZZ__¥TTXZUYLLRY
@HWI-EAS443:3:58:1177:222#0/1
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+HWI-EAS443:3:58:1177:222#0/1
aaaabbbbbbaa`ab^`baa_`^`X_`a_¥]X_¥W^``[]
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GTACTTTTTTGGACAGTATGGATAGCAAATAGTAGCATTG
+HWI-EAS443:3:58:1601:689#0/1
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@HWI-EAS443:3:58:472:1917#0/1
GTACTTTTTTGGACAGTATGGATAGCAAATAGTAGCATTG

+HWI-EAS443:3:58:472:1917#0/1
`^aaaaabaaa¥a_a__aaa__]^)]a`_^`¥U_[U_^ZU
@HWI-EAS443:3:58:503:630#0/1
GTACTTTTTGGACAGTATGGATAGCAAATAGTAGCATTG
+HWI-EAS443:3:58:503:630#0/1
a_^[a[[`a`_^J^`P^_¥XSYZUP[`YR]YPUYPNY^]
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GTACTTTTTGGACAGTATGGATAGCAAATAGTAGCATTG
+HWI-EAS443:3:59:1007:518#0/1
a`_`aaaaaaa`^¥_a]____^_]YS)`__[SV^]WY^XO
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+HWI-EAS443:3:59:1042:1295#0/1
aa`_]`a¥]b^_aa`_]`_Xa`a_ZX¥_]ZZU_YVGZU[Z
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+HWI-EAS443:3:59:752:864#0/1
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@HWI-EAS443:3:59:96:1439#0/1
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+HWI-EAS443:3:59:96:1439#0/1
aaabbb_[¥`a`^W_babaa¥^¥`a_]`_U¥X`)]`Z[^^Z
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+HWI-EAS443:3:5:1142:1315#0/1
YQ`^Z]]¥]XZ`_`[bXZ[^][^Z_TZXTXaVVBBBBBBB
@HWI-EAS443:3:5:1482:121#0/1
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+HWI-EAS443:3:5:1482:121#0/1
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@HWI-EAS443:3:5:821:1503#0/1
GTACTTTTTGGACAGTATGGATAGCAAATAGTAGCATTG
+HWI-EAS443:3:5:821:1503#0/1
a`abbabba`bba`abaaaa`a^a`_`aaaa¥U`a]`^¥_
@HWI-EAS443:3:60:1046:610#0/1
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+HWI-EAS443:3:60:1046:610#0/1
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@HWI-EAS443:3:60:122:1470#0/1
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+HWI-EAS443:3:60:122:1470#0/1
[`bbb`bbbb`^`aba`bbaaa`_^aaaa`ZM``[¥`^T
@HWI-EAS443:3:60:1471:687#0/1
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+HWI-EAS443:3:60:1471:687#0/1
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+HWI-EAS443:3:60:1506:765#0/1
Xb`[X`¥T[]]VWTZ_ZYVR_]_Y¥SFZa^_VPR_PNW[_
@HWI-EAS443:3:60:1578:1256#0/1
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+HWI-EAS443:3:60:1578:1256#0/1
aa0YVaaaba``]Y]_a^a`a_Y]Z[R]] [YUWO]`TZWY
@HWI-EAS443:3:61:1151:834#0/1
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+HWI-EAS443:3:61:1151:834#0/1
abbbbbbbbbbbbbbbbabbbbbbbba_ba^aaaYa_`
@HWI-EAS443:3:61:1436:757#0/1
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+HWI-EAS443:3:61:1436:757#0/1
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@HWI-EAS443:3:61:1441:1018#0/1
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+HWI-EAS443:3:61:1441:1018#0/1
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@HWI-EAS443:3:61:1676:1929#0/1
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+HWI-EAS443:3:61:1676:1929#0/1
`^]0`_`aW_^a]X]a¥^]_¥]_]^]_]X]YG¥SGRZWZ
@HWI-EAS443:3:61:1782:234#0/1
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+HWI-EAS443:3:61:1782:234#0/1
a_ZX`````a`_]][X[[_YSPSSOS¥^KRPXXVQQWUV
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@HWI-EAS443:3:61:683:1268#0/1
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+HWI-EAS443:3:61:683:1268#0/1
]b¥¥V^`_]ORaaa[Y][¥_aX[WOQY[VVUXU_^[[Y
@HWI-EAS443:3:62:1459:62#0/1
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`0`babbabb^[aa_aabaa`[X[```_]_a^]]a_WX
@HWI-EAS443:3:62:303:669#0/1
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+HWI-EAS443:3:62:303:669#0/1
a_a`aaaaaaa`__^a^_aa____[¥T____WSUT^^UY[XW
@HWI-EAS443:3:62:512:175#0/1
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+HWI-EAS443:3:62:512:175#0/1
aabbabba_aba]aaba`aaaaaaa_a`S_]`a`]^`^_
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aabaaaaba^a_`^aaa`W`[]`a_`^WOMY[[[¥]TY¥^
@HWI-EAS443:3:62:666:1406#0/1
ACTTTTTTGGACAGTATGGATAGCAAATAGTAGCATTGCC
+HWI-EAS443:3:62:666:1406#0/1
^a]Zaaaa_Z^`a_]aa[`¥][ZW```W¥S_X][Y]Y]Z
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+HWI-EAS443:3:62:699:20#0/1
YY_abbbbb`^a_W__aabb_aa_Z^`a_W¥U^[SX^_¥¥
@HWI-EAS443:3:63:1140:1415#0/1
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+HWI-EAS443:3:63:1140:1415#0/1
aaaaaaaa`_aa__a`_^aa_a__Z__Z``_]_^_a
@HWI-EAS443:3:63:1463:319#0/1
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+HWI-EAS443:3:63:1463:319#0/1
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+HWI-EAS443:3:63:1560:557#0/1
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@HWI-EAS443:3:63:537:338#0/1
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+HWI-EAS443:3:63:537:338#0/1
a]0_aU_`^_]_TZZ`^Za`]Y_X]_¥]`^_¥[`Y_[P_[Z
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+HWI-EAS443:3:64:237:581#0/1
a[`_[aa`^^_Y^^_[[_][[]][S_]UYYNXYYZWZS
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+HWI-EAS443:3:64:290:419#0/1
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@HWI-EAS443:3:64:593:334#0/1
GGTACTTTTTTGGACAGTATGGATAGCAAATAGTAGCATT
+HWI-EAS443:3:64:593:334#0/1
ab]aaabbbbbaaaaa`aaabaaa`[aaa^a]¥]^^_``
@HWI-EAS443:3:65:1284:604#0/1
GTACTTTTTTGGACAGTATGGATAGCAAATAGTAGCATTG
+HWI-EAS443:3:65:1284:604#0/1
^SZ^Z]^a^^aTX__P][`[QS[VVQ[^¥QWXTZYWR

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+HWI-EAS443:3:65:18:949#0/1
aaa`_aaaa]_`a_X`aa__ZaX¥_^`Z]QJ[WY]YVLT
@HWI-EAS443:3:65:223:1377#0/1
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+HWI-EAS443:3:65:223:1377#0/1
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+HWI-EAS443:3:66:108:382#0/1
abbbabb`_abb_^aa_aaa`Z^a^¥ZZU__ZQ[^V¥` []
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+HWI-EAS443:3:66:1353:755#0/1
aaaa`ababaaaY^`a[^`^`_`_^__Y_a_YJQ[^QTW^W
@HWI-EAS443:3:66:585:995#0/1
TTTTTTGGACAGTATGGATAGCAAATAGTAGCATTGCCAC
+HWI-EAS443:3:66:585:995#0/1
abbbbbba`ab`_aa_aa_a`^bba¥¥WW`^aX`a[^`^]
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+HWI-EAS443:3:66:682:890#0/1
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@HWI-EAS443:3:66:802:1970#0/1
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+HWI-EAS443:3:66:802:1970#0/1
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+HWI-EAS443:3:67:1328:124#0/1
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@HWI-EAS443:3:67:50:1307#0/1
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+HWI-EAS443:3:67:50:1307#0/1
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@HWI-EAS443:3:68:317:1918#0/1
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+HWI-EAS443:3:68:317:1918#0/1
VZ^]aba_Y^`__¥Q]_[Z`_¥YY`_ZF¥UNT[^Z[XHR]
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¥PZ_^`_X__YOYaY¥Xa]Za]ZRRW`a`[YXG¥¥SJ[¥T
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+HWI-EAS443:3:69:1218:499#0/1
a¥]aba[_b`^^Y_a[a_W_`^[\`]ZTDM`]¥¥_ZLNQ
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+HWI-EAS443:3:69:1248:249#0/1
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+HWI-EAS443:3:69:376:1073#0/1
^]_L`a_T]`_abaUaaa]PU]W``]¥¥^UH[^XX¥_YUY
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+HWI-EAS443:3:69:962:1063#0/1
a^Q^aaaa`ab¥aaaa`_aa_a`aa__[^__YN]UXKQ`U
@HWI-EAS443:3:6:1199:1543#0/1
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+HWI-EAS443:3:6:1199:1543#0/1
^^Z¥]¥_aSS¥ZaY_T_aZVMYa`R_[GQUFQ]]NGM^PB
@HWI-EAS443:3:6:414:1995#0/1
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+HWI-EAS443:3:6:414:1995#0/1
a^a_WHaba_TZ[a`^`aaa^a¥a_____]¥____[_YM]_^
@HWI-EAS443:3:70:1567:1826#0/1
TTTTTGGACAGTATGGATAGCAAATAGTAGCATTGCCACA
+HWI-EAS443:3:70:1567:1826#0/1
aaaaa^_a`ba_a¥_a`_]VVaaa[_^X[____S__ZX^
@HWI-EAS443:3:70:402:1807#0/1
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+HWI-EAS443:3:70:402:1807#0/1
a]^baabaaa^`ab^`^]`]`aYZX¥`S`[^`XTa[X]YZU
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+HWI-EAS443:3:70:461:1259#0/1
]ab^¥_`_ab¥_¥X]`a_JW]a]`P_YS^_]`^¥QPaaaa

@HWI-EAS443:3:70:668:573#0/1
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+HWI-EAS443:3:70:668:573#0/1
abbbbbbbbbbbba` `abbaa`aaabaaaYYaaa_`a[_`S
@HWI-EAS443:3:70:981:1728#0/1
TTTTGGACAGTATGGATAGCAAATAGTAGCATTGCCACA
+HWI-EAS443:3:70:981:1728#0/1
`aabbaZa_aa]aaaa`_a__aba^__0a¥ZY¥^[Y^_]_
@HWI-EAS443:3:71:1539:345#0/1
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+HWI-EAS443:3:71:1539:345#0/1
a]b_bbbbbbbba__abaaaaaaaa_`Y`ab_aaY_^G]__U
@HWI-EAS443:3:71:565:1361#0/1
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+HWI-EAS443:3:71:565:1361#0/1
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+HWI-EAS443:3:71:802:1388#0/1
`XS_aa]aaZ[V]T_a¥YX` `ZL[V LX[^UTPR[YT]¥TV
@HWI-EAS443:3:71:990:812#0/1
GTACTTTTTGGACAGTATGGATAGCAAATAGTAGCATTG
+HWI-EAS443:3:71:990:812#0/1
a`^aba` `aaa]T[a`^_`b^a^U^T^a` a¥^N`_X`^WW
@HWI-EAS443:3:72:1106:312#0/1
CTTTTTGGACAGTATGGATAGCAAATAGTAGCATTGCCA
+HWI-EAS443:3:72:1106:312#0/1
__abbb_a^`bbb^ba^`_`]XTaaa^_]Zba]`a^]a]`
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+HWI-EAS443:3:72:172:1322#0/1
^aY^aaa`Z^^`XU]]_Z^]_VX_]ZXYXTU¥¥NV]O]¥
@HWI-EAS443:3:72:252:120#0/1
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+HWI-EAS443:3:72:252:120#0/1
aa]¥a^aaa_^b`SaN__[WSV^][QZ_YUX XV^X[J^_]`
@HWI-EAS443:3:72:571:143#0/1
GTACTTTTTGGACAGTATGGATAGCAAATAGTAGCATTG
+HWI-EAS443:3:72:571:143#0/1
a`aaaabbaa`^` `a_aaaa__ZU`_____Y^]SY¥^¥
@HWI-EAS443:3:72:695:1748#0/1
ACTTTTTGGACAGTATGGATAGCAAATAGTAGCATTGCC
+HWI-EAS443:3:72:695:1748#0/1
¥_Y¥` `[S^_` `[J[_`_`¥¥Z]^`_[VXR¥SSW¥ZOX]
@HWI-EAS443:3:72:807:952#0/1
GTACTTTTTGGACAGTATGGATAGCAAATAGTAGCATTG
+HWI-EAS443:3:72:807:952#0/1
aa^baaaaaaaaaaab]aaaa^U][aaa_]R¥`]YZ^^
@HWI-EAS443:3:73:1149:1299#0/1
CTTTTTGGACAGTATGGATAGCAAATAGTAGCATTGCCA

@HWI-EAS443:3:78:1185:390#0/1
GTACTTTTTGGACAGTATGGATAGCAAATAGTAGCATTG
+HWI-EAS443:3:78:1185:390#0/1
aZTN[aa]¥¥_]YS^a_]`¥YL]ZSFQ]] [X¥UZPNOPTM
@HWI-EAS443:3:78:158:1704#0/1
GGTACTTTTTGGACAGTATGGATAGCAAATAGTAGCATT
+HWI-EAS443:3:78:158:1704#0/1
`^OT_abbbb__aa`ab_^aaaa^YT_a` `a`¥Ua`_]a`
@HWI-EAS443:3:78:237:546#0/1
TACTTTTTGGACAGTATGGATAGCAAATAGTAGCATTGC
+HWI-EAS443:3:78:237:546#0/1
aV]a`abb^`b_aaaWaab`a__`][U`H^WOVYXTa_U^
@HWI-EAS443:3:78:372:1453#0/1
TTTTGGACAGTATGGATAGCAAATAGTAGCATTGCCACA
+HWI-EAS443:3:78:372:1453#0/1
abbbb`^`aba^aaaaa` `]aaaa_a^T`^`X`YP_a`_`
@HWI-EAS443:3:78:677:1272#0/1
GGTACTTTTTGGACAGTATGGATAGCAAATAGTAGCATT
+HWI-EAS443:3:78:677:1272#0/1
aXDU¥Y¥Y¥Y_YYWVR]XWWRY_RSJPWXST¥SSOSOUTV
@HWI-EAS443:3:78:804:1549#0/1
ACTTTTTGGACAGTATGGATAGCAAATAGTAGCATTGCC
+HWI-EAS443:3:78:804:1549#0/1
a¥XYaSKLWQX[¥a¥Y^^`_HXXV]USIUXOMON¥]YJVB
@HWI-EAS443:3:79:301:74#0/1
CTTTTTGGACAGTATGGATAGCAAATAGTAGCATTGCCA
+HWI-EAS443:3:79:301:74#0/1
ababbbbbbbabbaaabbbaa[aa`[aba`]aa]`aa]Y^`
@HWI-EAS443:3:79:662:466#0/1
ACTTTTTGGACAGTATGGATAGCAAATAGTAGCATTGCC
+HWI-EAS443:3:79:662:466#0/1
`[^[a`^¥_^^KTYL]aa`U_`a_]_`]]`Ha_Z¥_[Z[]
@HWI-EAS443:3:7:167:24#0/1
GTACTTTTTGGACAGTATGGATAGCAAATAGTAGCATTG
+HWI-EAS443:3:7:167:24#0/1
`Z[_a`aa` ``__^_aZ____¥][^^]^^^Y¥TS[UXXYYR
@HWI-EAS443:3:7:1740:717#0/1
TTTTGGACAGTATGGATAGCAAATAGTAGCATTGCCACA
+HWI-EAS443:3:7:1740:717#0/1
aba`_[NQX__]a____ZZ¥XV¥^ZWWZXY]V[]WYMWUWW
@HWI-EAS443:3:7:338:289#0/1
GTACTTTTTGGACAGTATGGATAGCAAATAGTAGCATTG
+HWI-EAS443:3:7:338:289#0/1
a^`X`_a_a_^`a¥`aVZ[¥[¥XXSOY^_W^¥GQNFSTRN
@HWI-EAS443:3:80:479:115#0/1
ACTTTTTGGACAGTATGGATAGCAAATAGTAGCATTGCC
+HWI-EAS443:3:80:479:115#0/1
ab^bb`bbb_¥a` `` `aQ¥Xa_YT_]PY^Y^]Z]_`]YQ_
@HWI-EAS443:3:80:932:721#0/1
ACTTTTTGGACAGTATGGATAGCAAATAGTAGCATTGCC

+HWI-EAS443:3:80:932:721#0/1
aabbbbbbbbaabaab`^`a`^Y]aaaa`_`a__a`[``
@HWI-EAS443:3:81:1054:1513#0/1
GTACTTTTTGGACAGTATGGATAGCAAATAGTAGCATTG
+HWI-EAS443:3:81:1054:1513#0/1
a_aaaaabaa`[a`aa_aaaaaa`Zaaaa_YX_aW__]]
@HWI-EAS443:3:81:1357:801#0/1
CTTTTTGGACAGTATGGATAGCAAATAGTAGCATTGCCA
+HWI-EAS443:3:81:1357:801#0/1
aa`aa_]__a`^`]abbba`_^[^a`^`^_N_]YY^¥QHRZ
@HWI-EAS443:3:81:1671:434#0/1
GTACTTTTTGGACAGTATGGATAGCAAATAGTAGCATTG
+HWI-EAS443:3:81:1671:434#0/1
a`YX¥`_`aa^WRYPW`_]`^X`¥`_ZWFS¥PZ¥^[U]FT]¥H
@HWI-EAS443:3:81:448:1891#0/1
GTACTTTTTGGACAGTATGGATAGCAAATAGTAGCATTG
+HWI-EAS443:3:81:448:1891#0/1
a^`aaaaabb]aaba^aa]]_`ZYZaaa_a[T`^]]_¥R
@HWI-EAS443:3:81:890:982#0/1
GTACTTTTTGGACAGTATGGATAGCAAATAGTAGCATTG
+HWI-EAS443:3:81:890:982#0/1
aYN_W^X_] [XJZNZPY[UVYTT^BBBBBBBBBBBBBBB
@HWI-EAS443:3:82:1735:242#0/1
GTACTTTTTGGACAGTATGGATAGCAAATAGTAGCATTG
+HWI-EAS443:3:82:1735:242#0/1
]`^YJWWaa` `b_a¥^¥HV^b0_¥QUT]`_^_GRaYPS[aY
@HWI-EAS443:3:82:711:96#0/1
GTACTTTTTGGACAGTATGGATAGCAAATAGTAGCATTG
+HWI-EAS443:3:82:711:96#0/1
__S_abbY_¥]aa]_a0[] [Za_ZZGYU`WI_SXLRUN`W
@HWI-EAS443:3:82:734:1376#0/1
TTTGGACAGTATGGATAGCAAATAGTAGCATTGCCACAAC
+HWI-EAS443:3:82:734:1376#0/1
a`a`^aaba]a_`_aUa`^a^a¥`M[^`^]_`^`_¥^]X]_]
@HWI-EAS443:3:82:743:488#0/1
CTTTTTGGACAGTATGGATAGCAAATAGTAGCATTGCCA
+HWI-EAS443:3:82:743:488#0/1
abbbbbbbbbbbbabbbbabbbbaaba`baaab` `aa
@HWI-EAS443:3:82:820:158#0/1
GTACTTTTTGGACAGTATGGATAGCAAATAGTAGCATTG
+HWI-EAS443:3:82:820:158#0/1
aaa`aa[[aab^a__b^a_a`W`_]W^¥QT__GX`_^_[R
@HWI-EAS443:3:83:1201:72#0/1
GTACTTTTTGGACAGTATGGATAGCAAATAGTAGCATTG
+HWI-EAS443:3:83:1201:72#0/1
a^`^aaaaaaa][^_]____]]^]`^Z[] []TVSM[S[]]V
@HWI-EAS443:3:83:1311:939#0/1
TGGACAGTATGGATAGCAAATAGTAGCATTGCCACAATA
+HWI-EAS443:3:83:1311:939#0/1
`U_KZ`^PaaZR__`^`_`X^SOVWWWVNXSRUVJR[W`]YX

@HWI-EAS443:3:83:1543:427#0/1
GAGGAGTGCCTGATTAATGATCCCTGGGTTTTGCTTAATG
+HWI-EAS443:3:83:1543:427#0/1
aaaaabSaY¥`a``aaaa^Z_GNb_Z]W]¥aaWa[_``^
@HWI-EAS443:3:83:157:1111#0/1
GTACTTTTTTGGACAGTATGGATAGCAAATAGTAGCATTG
+HWI-EAS443:3:83:157:1111#0/1
VXU_¥`^]¥[^_Z`Y`RV¥_[O[ZZ¥_Y[S[XIX_YXWWU
@HWI-EAS443:3:83:1706:1851#0/1
TTTGGACAGTATGGATAGCAAATAGTAGCATTGCCACAAC
+HWI-EAS443:3:83:1706:1851#0/1
a`_a`aa_a__`aa`__Sxa``Z]XU]]OZ__^S]WUU^S
@HWI-EAS443:3:83:1730:1381#0/1
GTACTTTTTTGGACAGTATGGATAGCAAATAGTAGCATTG
+HWI-EAS443:3:83:1730:1381#0/1
a`a`aaabaaaa][a`X[aa_X^][JW_[X^U¥`SN[[V
@HWI-EAS443:3:83:277:1171#0/1
TGGACAGTATGGATAGCAAATAGTAGCATTGCCACAAC
+HWI-EAS443:3:83:277:1171#0/1
¥_babb^_b]]a`b`YZ_^ZZ[_____]XX^```a¥_V[`
@HWI-EAS443:3:83:452:1122#0/1
GTACTTTTTTGGACAGTATGGATAGCAAATAGTAGCATTG
+HWI-EAS443:3:83:452:1122#0/1
```\_\_abaa[a`\_`a]YY^a\_S\_\_¥Ya`V^`MS\_\_\_\_[^Z  
@HWI-EAS443:3:84:1070:364#0/1  
CTTTTTTGGACAGTATGGATAGCAAATAGTAGCATTGCCA  
+HWI-EAS443:3:84:1070:364#0/1  
abbabbabaaab\_^bb`\_a`ab`aaa^]ZY^a`baa`Z^a  
@HWI-EAS443:3:84:1419:277#0/1  
TACTTTTTTGGACAGTATGGATAGCAAATAGTAGCATTGC  
+HWI-EAS443:3:84:1419:277#0/1  
aa\_bbbbbbbbaa`aa`aaaa\_aaa]aaa`aY\_`\_^`\_SY  
@HWI-EAS443:3:84:680:1602#0/1  
TTTTTGGACAGTATGGATAGCAAATAGTAGCATTGCCACA  
+HWI-EAS443:3:84:680:1602#0/1  
aa`ababaaaa^baa`a\_a\_abaa\_a]X\_a\_`\_]XZ]`X`  
@HWI-EAS443:3:84:836:732#0/1  
ACTTTTTTGGACAGTATGGATAGCAAATAGTAGCATTGCC  
+HWI-EAS443:3:84:836:732#0/1  
aaaababbb`\_`aaa^aaaa`^]¥]a`\_\_[W\_\_XZ¥\_\_¥  
@HWI-EAS443:3:85:1253:874#0/1  
ACTTTTTTGGACAGTATGGATAGCAAATAGTAGCATTGCC  
+HWI-EAS443:3:85:1253:874#0/1  
aaababaaaa\_\_aa\_aaa`aSa\_a`^\_¥][S\_`U\_Z\_S[S  
@HWI-EAS443:3:85:184:1602#0/1  
CAAGGTACTTTTTTGGACAGTATGGATAGCAAATAGTAGC  
+HWI-EAS443:3:85:184:1602#0/1  
abbaa\_baaa`aaaaabaa`\_a`\_a`¥`\_a^^^`YU^[\_  
@HWI-EAS443:3:85:226:119#0/1  
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+HWI-EAS443:3:85:226:119#0/1  
abZ¥`aa`¥`\_a`\_aY\_^a^^¥`^¥Y[XW^[SYZNFQX  
@HWI-EAS443:3:85:275:2009#0/1  
GGTACTTTTTGGACAGTATGGATAGCAAATAGTAGCATT  
+HWI-EAS443:3:85:275:2009#0/1  
[`Qa`Zaa\_]¥UP`ba`Pa\_ZPW[[L[aa\_PWFDXSPX^`  
@HWI-EAS443:3:85:277:78#0/1  
TTTTTGGACAGTATGGATAGCAAATAGTAGCATTGCCACA  
+HWI-EAS443:3:85:277:78#0/1  
aaaabaaaaa]\_`ab^\_`\_]`\_`\_]Z^\_^Y^]\_^ZU]  
@HWI-EAS443:3:85:564:223#0/1  
ACTTTTTGGACAGTATGGATAGCAAATAGTAGCATTGCC  
+HWI-EAS443:3:85:564:223#0/1  
aa`ba]baba\_`aa[aaa`\_\_\_XQ[\_\_\_XS[`ZYW\_¥UZ  
@HWI-EAS443:3:85:655:191#0/1  
CTTTTTGGACAGTATGGATAGCAAATAGTAGCATTGCCA  
+HWI-EAS443:3:85:655:191#0/1  
aa^aa`aaX]\_a\_T\_aa`\_`\_]`\_`\_`\_a\_Y\_\_U^YU]YWSRY  
@HWI-EAS443:3:85:734:374#0/1  
GTACTTTTTGGACAGTATGGATAGCAAATAGTAGCATTG  
+HWI-EAS443:3:85:734:374#0/1  
^La^`\_a`\_`\_a\_\_^[a`\_`\_aZW`ZXMR[^^^UKX^]`^YV  
@HWI-EAS443:3:86:244:1427#0/1  
TTTTTGGACAGTATGGATAGCAAATAGTAGCATTGCCACA  
+HWI-EAS443:3:86:244:1427#0/1  
`aaaa¥aaaaab^[]V^[^\_[Saa\_Z]RZS]]^X\_X\_\_\_^T  
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+HWI-EAS443:3:86:259:1794#0/1  
a]YI]Q¥[\_\_\_Z\_\_\_`^[G[[\_YHRPPO¥\_YWYRFSFOPUYV  
@HWI-EAS443:3:86:688:110#0/1  
GTACTTTTTGGACAGTATGGATAGCAAATAGTAGCATTG  
+HWI-EAS443:3:86:688:110#0/1  
a^\_¥aY^\_aa\_] []bY\_`a¥^PZ^MY\_¥XVSVYRIK]YV  
@HWI-EAS443:3:86:85:1014#0/1  
TTTTTGGACAGTATGGATAGCAAATAGTAGCATTGCCACA  
+HWI-EAS443:3:86:85:1014#0/1  
abaaa^a`\_^a^a\_]aa`\_]a\_a`\_\_Xaa¥]^\_UZ¥^\_^  
@HWI-EAS443:3:87:299:859#0/1  
AGGAGTGCCTGATTAATGATCCCTGGGTTTTGCTTAATGC  
+HWI-EAS443:3:87:299:859#0/1  
a`¥^`^`aaa`\_`a`a`\_\_\_^\_\_a\_[aR^]^^`\_]`\_\_\_¥  
@HWI-EAS443:3:87:382:1372#0/1  
GTACTTTTTGGACAGTATGGATAGCAAATAGTAGCATTG  
+HWI-EAS443:3:87:382:1372#0/1  
a¥\_^\_aaa\_`\_`\_aa¥\_Y`^U]`]^`]]`\_WQTW\_^XV^^]  
@HWI-EAS443:3:87:422:885#0/1  
CTTTTTGGACAGTATGGATAGCAAATAGTAGCATTGCCA  
+HWI-EAS443:3:87:422:885#0/1  
`aa`a^a`]^a`\_]W\_aX^a\_^]aa`\_`¥S\_\_¥R[YY^¥[

@HWI-EAS443:3:87:840:1420#0/1  
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+HWI-EAS443:3:87:840:1420#0/1  
aaaabaaa`a`aaa\_abb`a`a]a` `][X\_`¥Y`\_\_]  
@HWI-EAS443:3:87:84:1967#0/1  
GTACTTTTTTGGACAGTATGGATAGCAAATAGTAGCATTG  
+HWI-EAS443:3:87:84:1967#0/1  
\_[\_`^` `aUaa[]`bYYWZ[QYXLFT` `[TYUX[XMQHVN  
@HWI-EAS443:3:87:902:385#0/1  
GTACTTTTTTGGACAGTATGGATAGCAAATAGTAGCATTG  
+HWI-EAS443:3:87:902:385#0/1  
]^Yb^^¥aa\_\_Q\_aa¥KZa\_OV¥`YQT\_a]XKXSQQZSHB  
@HWI-EAS443:3:88:1212:1235#0/1  
TTTTGGACAGTATGGATAGCAAATAGTAGCATTGCCACAA  
+HWI-EAS443:3:88:1212:1235#0/1  
`baababab` `a`a\_Y`a[aaa` `]N[\_[[[ `ZK^\_]a`  
@HWI-EAS443:3:89:1161:936#0/1  
ACTTTTTTGGACAGTATGGATAGCAAATAGTAGCATTGCC  
+HWI-EAS443:3:89:1161:936#0/1  
ababbbbbb`aabaabaaa`a\_aaaaa^aa]\_a` `]`¥  
@HWI-EAS443:3:89:1185:1546#0/1  
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+HWI-EAS443:3:89:1185:1546#0/1  
`Ya` `bbbbaaaa`aa\_aaaaa\_]Z`aaa`S¥\_XW^]\_X  
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+HWI-EAS443:3:89:1767:591#0/1  
a^\_]ab`aa][T]`aI\_\_\_\_\_X]MEL\_^SOKM]UPVTX^  
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+HWI-EAS443:3:89:416:961#0/1  
abbbbbbbaa`abbabbabaaa]`aa`aaa\_aaa` `a^^a  
@HWI-EAS443:3:89:658:1660#0/1  
ACTTTTTTGGACAGTATGGATAGCAAATAGTAGCATTGCC  
+HWI-EAS443:3:89:658:1660#0/1  
abbbbabbbabababaaa` `^a]aa\_X`^[\_Y^\_^]^X  
@HWI-EAS443:3:8:1291:945#0/1  
TGGACAGTATGGATAGCAAATAGTAGCATTGCCACAAC  
+HWI-EAS443:3:8:1291:945#0/1  
abb][\_baaba` `a`[ `aaa` `]a`Y¥` ` `^U^]a^L\_`  
@HWI-EAS443:3:90:1164:965#0/1  
GTACTTTTTTGGACAGTATGGATAGCAAATAGTAGCATTG  
+HWI-EAS443:3:90:1164:965#0/1  
aZ\_`ababba[\_aa`^a`aa`a` `¥aaY\_\_UZW]Z^\_\_¥  
@HWI-EAS443:3:90:1288:2016#0/1  
ACTTTTTTGGACAGTATGGATAGCAAATAGTAGCATTGCC  
+HWI-EAS443:3:90:1288:2016#0/1  
a\_a\_\_`\_¥`G^\_^aS`aa`\_OQ]T`a\_\_¥YG^VF^¥`YZ]  
@HWI-EAS443:3:90:129:514#0/1  
ACAAGGTACTTTTTTGGACAGTATGGATAGCAAATAGTAG

+HWI-EAS443:3:90:129:514#0/1  
^\_[¥aaY[`Vbba\_a`\_\_aaa\_]aaaa`Y`T[\_a]\_¥T]]  
@HWI-EAS443:3:90:388:1156#0/1  
GTACTTTTTGGACAGTATGGATAGCAAATAGTAGCATTG  
+HWI-EAS443:3:90:388:1156#0/1  
a]\_^a\_ba`a^U^`a]a\_a\_]V\_YRY\_]OZZSVWQJS[V  
@HWI-EAS443:3:90:864:1102#0/1  
ACTTTTTGGACAGTATGGATAGCAAATAGTAGCATTGCC  
+HWI-EAS443:3:90:864:1102#0/1  
aaabbababa`aaa¥a`baaaaa`\_^`\_]Pa^¥``\_XQ]  
@HWI-EAS443:3:91:106:922#0/1  
TTTTTGGACAGTATGGATAGCAAATAGTAGCATTGCCACA  
+HWI-EAS443:3:91:106:922#0/1  
`bVb`Yba¥T[MZYV]OTSJZ]W¥aY[NZYLYYTSZYXYY  
@HWI-EAS443:3:91:1370:997#0/1  
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+HWI-EAS443:3:91:1370:997#0/1  
aa`^a]`H[S^``TY\_MW[^Ya¥Xa¥GSUXI]ZZU\_]¥a  
@HWI-EAS443:3:91:276:1194#0/1  
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@HWI-EAS443:3:91:933:1398#0/1  
GTACTTTTTGGACAGTATGGATAGCAAATAGTAGCATTG  
+HWI-EAS443:3:91:933:1398#0/1  
\_T\_[abaaaa`]^aa\_`a`]V`\_YF^`X\_TP]OW]]X]  
@HWI-EAS443:3:92:1043:1993#0/1  
GTACTTTTTGGACAGTATGGATAGCAAATAGTAGCATTG  
+HWI-EAS443:3:92:1043:1993#0/1  
a]aVJ]aZKX[a¥^\_Q¥^`X]\_\_PY^^^^\_W]]UQ^YS  
@HWI-EAS443:3:92:1358:636#0/1  
ACTTTTTGGACAGTATGGATAGCAAATAGTAGCATTGCC  
+HWI-EAS443:3:92:1358:636#0/1  
aabbbb`a`\_aaba\_aa^a`a]a\_ab`\_aa]aa^aa\_\_Z\_  
@HWI-EAS443:3:92:1549:1903#0/1  
TTTTTGGACAGTATGGATAGCAAATAGTAGCATTGCCACA  
+HWI-EAS443:3:92:1549:1903#0/1  
ababa^^]\_ab]\_ab\_a`UOG`\_\_UaWHa\_G^\_TVUS`Z¥  
@HWI-EAS443:3:92:1578:502#0/1  
TTTTTGGACAGTATGGATAGCAAATAGTAGCATTGCCACA  
+HWI-EAS443:3:92:1578:502#0/1  
``\_]bbaa`aa¥`a`XPTa`[a^^K`]UabP[aaXFFHwa  
@HWI-EAS443:3:92:1617:583#0/1  
TTTTTGGACAGTATGGATAGCAAATAGTAGCATTGCCACA  
+HWI-EAS443:3:92:1617:583#0/1  
\_`Ua\_b^aVa^\_¥aa`a[]aX]aaa`[S^YZX\_¥Z]UTP]  
@HWI-EAS443:3:92:209:1490#0/1  
GTACTTTTTGGACAGTATGGATAGCAAATAGTAGCATTG  
+HWI-EAS443:3:92:209:1490#0/1  
aY¥abb`abbba`XbXR`]aY^[\_UN[\_YW]NGUTT\_P[M



@HWI-EAS443:3:92:418:301#0/1  
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+HWI-EAS443:3:92:418:301#0/1  
U^`bbbbbbba`]a]aaaa`\_¥[`a\_a`\_W]^TV¥\_Y\_Y  
@HWI-EAS443:3:92:626:1307#0/1  
TTTTTGGACAGTATGGATAGCAAATAGTAGCATTGCCACA  
+HWI-EAS443:3:92:626:1307#0/1  
aabaa```aaa¥aaa]\_\_a]``a```YP\_`^^^[]YZX[\_  
@HWI-EAS443:3:92:823:843#0/1  
ACTTTTTTGGACAGTATGGATAGCAAATAGTAGCATTGCC  
+HWI-EAS443:3:92:823:843#0/1  
\_\_`bbaabaaa`\_^aa`a¥a^Ua\_\_\_a¥V`[\_`\_XY]  
@HWI-EAS443:3:93:1017:484#0/1  
GTACTTTTTTGGACAGTATGGATAGCAAATAGTAGCATTG  
+HWI-EAS443:3:93:1017:484#0/1  
¥NVWZI\_WWa`¥YL]a^Z^`]Z^^WSZ[R^¥UX`Z¥NQZN  
@HWI-EAS443:3:93:1341:1390#0/1  
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+HWI-EAS443:3:93:1341:1390#0/1  
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+HWI-EAS443:3:93:1633:1526#0/1  
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+HWI-EAS443:3:95:189:1410#0/1  
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+HWI-EAS443:3:95:325:1065#0/1  
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a\_^]`\_aa\_a\_]\_\_Y]\_^^^¥Y\_W^]]Z]^UXZX[U[B  
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`Ya^¥a`a]a\_Z\_^\_[X`\_W¥^]\_[V^\_^Y^UT\_SXUQ[Y  
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a\_`[aaaa`a`a^]a\_]\_\_`aX\_^\_W\_\_\_^\_\_V\_\_V]]`]  
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K\_b]b`aY\_bXS`bb\_^)]aaa\_a][^aFF[\_\_\_VN[T[Q  
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abb^N`PP`aa\_^X]]^¥NV0]¥\_`\_]\_a^^`U^\_Q]`  
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a\_`ba`a[]`R\_\_\_\_`Y]`aP]VLTYY`¥``[Z`\_\_]\_] ]  
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+HWI-EAS443:3:32:518:1602#0/1  
aa`¥baa\_baa¥a\_X¥^Qa``aa^`\_T\_]SY\_¥¥¥¥\_¥¥¥  
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+HWI-EAS443:3:34:244:348#0/1  
aaaaa[a\_aa]a]`\_\_`\_^\_]`]`\_U¥`[Z\_Y]Y^ZWZ]V  
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a\_aaa``b\_[]`aaaZaa^]`\_``UP``¥aZ[ZX`\_`[\_^  
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R\_`¥I¥baXZVU\_`VW[¥S\_`aSRYa`¥aGIO¥\_`VL^^  
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+HWI-EAS443:3:47:875:478#0/1
abbbbbbbbababbbbababaaaabbbabaaa`abbbba
@HWI-EAS443:3:48:1271:2035#0/1
GTGCGCTTTAAATACGGTTTAAAAAGAGGGCCTTCTACGGA
+HWI-EAS443:3:48:1271:2035#0/1
a[SULZ`a^XU]¥T]VP[^XRL_N_ZZQYMLPRZSZRW¥U
@HWI-EAS443:3:48:138:121#0/1
TGTATTTATCGTCGCTTTAAATACGGTTTAAAAAGAGGGC
+HWI-EAS443:3:48:138:121#0/1
`Xa^bb`babaaa`_ab^¥` `` `[a^a^b]^]_[VN___
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+HWI-EAS443:3:48:246:1110#0/1
`_UXU]T_]NX`QYOX_NHX_XRNWOLS_[XPQ]ZBBBBB
@HWI-EAS443:3:4:1449:298#0/1
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+HWI-EAS443:3:4:1449:298#0/1
aY][[]][_]Va[a_`a]`P`[a`aaV]¥Y^S[a^a_T
@HWI-EAS443:3:50:1377:516#0/1
CGCTTTAAATACGGTTTGAAAAGAGGGCCTTCTACGGAAG
+HWI-EAS443:3:50:1377:516#0/1
ababbbb`bbbabbabb`aaaaabaaaa`b_¥ba`aa
@HWI-EAS443:3:51:1225:1365#0/1
ATTTATCGTCGCTTTAAATACGGTTTGAAAAGAGGGCCTT
+HWI-EAS443:3:51:1225:1365#0/1
JY_¥`^ab]a^ab]bUbaaa`aa_b¥^Z¥XY^^bY`OL[]
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+HWI-EAS443:3:51:265:114#0/1
a¥^`Waaa__^`¥W``¥a``UY^¥a¥`a_WW^YU_¥W¥¥W
@HWI-EAS443:3:52:487:1505#0/1
CTTTTCAAACCGTATTTAAAGCGACGATAAATACATTTGA
+HWI-EAS443:3:52:487:1505#0/1
aa`_a_W^a[]¥^`_^_aa]`aa¥[``¥`_a`a`a[`_Y
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ATGTATTTATCGTCGCTTTAAATACGGTTTGAAAAGAGGG
+HWI-EAS443:3:52:873:1180#0/1
U]ba^aab`¥¥[_¥`_La_RXXZ^^ab_^bb^[TIQYV^]
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+HWI-EAS443:3:54:762:583#0/1
_Z_abbbbbbaa[abaaaba`aa`aa_abb_`_`a_aa`_
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+HWI-EAS443:3:55:1242:691#0/1
`aa]W^a)`Y`TQSa)`a_W^N_[_¥[¥QaY__a`a`
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+HWI-EAS443:3:55:1769:795#0/1
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@HWI-EAS443:3:56:1240:549#0/1
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+HWI-EAS443:3:56:1240:549#0/1
aaaababbba`aa``abb`^aa`a_baa¥T_a¥a]Z^`
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+HWI-EAS443:3:56:15:29#0/1
Zbbbaabb_abaaaa`U`aaaaXaa]^_^R[T__a¥YYW
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+HWI-EAS443:3:57:1688:1717#0/1
aaa^aaaa^a_aaa__^ba^`_^_a`¥aa`¥_Yaa`_¥U

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+HWI-EAS443:3:57:311:1203#0/1
_[Ybbbaa`^`_aa_aaa`Z]_[a_[a_RY_Z^SXQ^`[^
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+HWI-EAS443:3:57:394:1664#0/1
ab`aabbbbbbaaaabaaa¥`aa`Xa`^]]_`__`a^`_
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+HWI-EAS443:3:57:946:1172#0/1
aaa``]abb`aa_V¥aa_ba`^^[a^[a[[^^]ZZ[^¥``
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+HWI-EAS443:3:58:1292:566#0/1
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+HWI-EAS443:3:60:138:1121#0/1
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CGTCGCTTTAAATACGGTTTGAAAAGAGGGCCTTCTACGG
+HWI-EAS443:3:61:959:792#0/1
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CGTCGCTTTAAATACGGTTTGAAAAGAGGGCCTTCTACGG
+HWI-EAS443:3:62:105:184#0/1
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@HWI-EAS443:3:62:1110:160#0/1
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+HWI-EAS443:3:62:1110:160#0/1
a`^`bbababb^]b`^baaXa```a]¥`a]¥[^`^_¥____
@HWI-EAS443:3:63:135:1207#0/1
ATTTATCGTCGCTTTAAATACGGTTTGAAAAGAGGGCCTT
+HWI-EAS443:3:63:135:1207#0/1
``^Z^^_Y[S]¥YTRZZ_]R]¥Y`PUW]¥]BBBBBBBBB
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+HWI-EAS443:3:63:1496:1687#0/1
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@HWI-EAS443:3:63:631:707#0/1
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+HWI-EAS443:3:63:631:707#0/1
aaaaaaaa`aa`_aa[aa_QT`_```a_`¥¥`_^_] [¥X
@HWI-EAS443:3:64:1420:237#0/1
CGTCGCTTTAAATACGGTTTAAAAAGAGGGCCTTCTACGG
+HWI-EAS443:3:64:1420:237#0/1
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@HWI-EAS443:3:64:1441:501#0/1
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+HWI-EAS443:3:64:1441:501#0/1
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@HWI-EAS443:3:64:233:263#0/1
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+HWI-EAS443:3:64:233:263#0/1
Va¥¥¥Z`^`^][^_Z`^`^ [Z^¥SZ_RNWX][VXX]VOOS
@HWI-EAS443:3:64:474:269#0/1
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+HWI-EAS443:3:64:474:269#0/1
a¥[_ba_abaaa`a]_`_`_]__aa_^]```_^¥`_SXY`_
@HWI-EAS443:3:64:565:1222#0/1
CGTCGCTTTAAATACGGTTTAAAAAGAGGGCCTTCTACGG
+HWI-EAS443:3:64:565:1222#0/1
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+HWI-EAS443:3:66:1195:760#0/1
ab_aaaaaa)`aaS_a`^aaXP`¥^SZVPV_Z[^^^TNUW
@HWI-EAS443:3:66:382:1366#0/1
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+HWI-EAS443:3:66:382:1366#0/1
a`]a_a`aaa_W_X`a`¥`^]TXY^[Z^^_¥^Z^^[[
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+HWI-EAS443:3:67:1548:904#0/1
_`__^`aZ__a_^Z_Ya_¥Y_]```_ZaaZ¥X_Ya^]_`¥W
@HWI-EAS443:3:68:1001:1233#0/1
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+HWI-EAS443:3:68:1001:1233#0/1
a^_Y[^a¥][`^aZ`a_N[]`a]^P^XYX¥`¥[R`_[VWX
@HWI-EAS443:3:68:707:2022#0/1
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+HWI-EAS443:3:68:707:2022#0/1
aWxa```_Z_¥^`Y]__YVa_a__`U¥Z_¥`_[[¥X^¥[RY¥
@HWI-EAS443:3:6:1538:1482#0/1
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+HWI-EAS443:3:6:409:1741#0/1
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@HWI-EAS443:3:6:74:522#0/1
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+HWI-EAS443:3:6:74:522#0/1
a^`aaa`a_a]a__a^Va`SW^^]_^[_`]]_^]^^^] ^B
@HWI-EAS443:3:6:943:1725#0/1
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+HWI-EAS443:3:6:943:1725#0/1
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+HWI-EAS443:3:70:1220:1776#0/1
a^^b_`Zaaaa`a`a[aa`aa[`^aV`¥aYQ¥^[^WZ`VX
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+HWI-EAS443:3:70:413:1345#0/1
^ab`_¥^U¥[[a`]¥_W_VI[^a_a^__Q]_aaa`_` `aU
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+HWI-EAS443:3:71:885:1614#0/1
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+HWI-EAS443:3:71:922:454#0/1
aXa_VX_`^`a`QY]a_` `XDTWVZ¥¥_a^YZY¥Y]U]^Z
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+HWI-EAS443:3:73:356:1570#0/1
aa^`X_¥¥aa¥aQ_¥`_aY[[a_W__0¥¥Y_^_¥UZ]]^Z
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+HWI-EAS443:3:73:876:973#0/1
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@HWI-EAS443:3:74:108:805#0/1
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+HWI-EAS443:3:74:108:805#0/1
aaXaaaa`aRR]a_`a`^a`_]^[^]_X__XU_]UVQ]U[V
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+HWI-EAS443:3:75:1091:1756#0/1
abaa_bbb`bb`aa^^`VHS]Z¥]aaUD[T_b`W`a__a
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^¥aababbbbaaaa_]aabb`_aa`]aaX`b^]_a_`]^_`
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+HWI-EAS443:3:75:678:1596#0/1
aZa`a_U¥UZ`YQ_^Y[]U[[]WZ_NS`^VSZ¥VVS¥Z
@HWI-EAS443:3:77:1058:1607#0/1
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+HWI-EAS443:3:77:1058:1607#0/1
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a`¥[`b_TTaba_I_]_¥aaaa^]W^]XaTJT]`KWW]
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+HWI-EAS443:3:78:724:791#0/1
a__]_`_W^a`[a`^a`^UV____aaa____aaZ_^U]
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+HWI-EAS443:3:79:1662:253#0/1
_[]`bbabbbbabba_bbbbbbaab`b`_`bbaab`¥_aXYb
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+HWI-EAS443:3:79:1732:640#0/1
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+HWI-EAS443:3:7:1059:751#0/1
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+HWI-EAS443:3:7:446:1491#0/1
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+HWI-EAS443:3:80:1483:819#0/1
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aaaaa`^aa`a_a___`X`¥PV`_¥¥_][^_^_YWRYYY
@HWI-EAS443:3:80:342:1264#0/1
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+HWI-EAS443:3:80:342:1264#0/1
aa_aaaaaa_``__aa¥a_^¥^`__`U¥¥^¥_^^``Z^U
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+HWI-EAS443:3:81:1561:341#0/1
[_^QRa_[ab_Y__I[bb`a_X]Y]baaa_UW_S¥`Q`a
@HWI-EAS443:3:81:1676:1712#0/1
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+HWI-EAS443:3:81:1676:1712#0/1
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+HWI-EAS443:3:81:171:996#0/1
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+HWI-EAS443:3:81:786:1933#0/1
U_b]¥¥_^]^Z¥bbUR¥a`[¥^PW^SZ¥T_OZTW]`a``
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+HWI-EAS443:3:82:1043:1104#0/1
a]Saa`bab]Zab`__KX`b¥`]_aa¥[aaaVaaaa`G`_
@HWI-EAS443:3:82:1170:1489#0/1
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+HWI-EAS443:3:82:1170:1489#0/1
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@HWI-EAS443:3:82:1326:1051#0/1
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+HWI-EAS443:3:82:1326:1051#0/1
a`]baZ`¥_ab`ab¥^Z^`]aa^a_]`^`a`^¥YZ`U]¥¥]
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+HWI-EAS443:3:82:265:1473#0/1
a__a^aaaa_aa`a_a`¥``_Z_a_]¥¥¥^`^U¥]¥¥WU¥
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+HWI-EAS443:3:82:460:1308#0/1
^Y¥_aaaa_Z_``aaYaa[Uaa_P[`Y^YVTZU[^W^]
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+HWI-EAS443:3:82:800:142#0/1
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@HWI-EAS443:3:83:1528:1321#0/1
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+HWI-EAS443:3:84:167:1353#0/1
aa^aaaabaa_baaaaaaaaaaaa¥aY`U)`aY__^_^_]
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TCTTTTCAAACCGTATTTAAAGCGACGATAAATACATTTG
+HWI-EAS443:3:85:663:1795#0/1
W`ba`_ba[_`[^a^_aaa^aaa_^a]]``a^b_a`_
@HWI-EAS443:3:85:675:495#0/1
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`¥aaaaaaba`aa`aa`¥SXS[a`Z_aa_[Za`a`X_^]
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abbab`_^`b]aba]]`_¥Yaa`aa`U]^`_Z_``YV[ZN
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+HWI-EAS443:3:88:1419:1114#0/1
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S_ba_abbbbb`bbaaa_bbaba`aabbbb_`bb^b_V_b
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a_aaaaa_`^_a[_a_`]a_]Z^`Z`¥_^^[^^ZZX[UZ
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^Z_bb_¥_TX_ba`[_¥¥Y]^_WS¥¥]]Y^¥VY¥X^LW[V
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+HWI-EAS443:3:92:1061:1707#0/1
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]_[^]VZ^babb_[T`]¥¥Yb`_aa_a[SW¥_]SaBBBBBB
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+HWI-EAS443:3:92:942:78#0/1
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aa_ab__aa`_`_¥a`U`a`_]^[)]¥¥_UU]YXYXXB
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+HWI-EAS443:3:93:1063:1735#0/1
a_b]aaa`S_`^Y_`[_^a_]a`¥]_Z]^^[¥XXGZ_
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^^^][¥a^^aa`_`_a]SaT_a`_`^[^U`^`]^`^¥^YY_
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+HWI-EAS443:3:98:463:1843#0/1
aa_```aa`Z_aaa])OVaa`^[X]UZ]V]_`_XSR¥Z__
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a]aaaa_aa_^_]a__`^____adW^_Z])_Z_^^]^XW
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a`ab`baa`_a`aa`aaU`aa`Z_a_```_`a_``]__U]
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+HWI-EAS443:3:55:1468:1834#0/1
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+HWI-EAS443:3:9:945:248#0/1
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+HWI-EAS443:3:50:1177:94#0/1
W`_ZQ¥_VVXL¥WW_[^`R_`^___Z_aa¥TVZTWa```ab
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+HWI-EAS443:3:65:1552:1980#0/1
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+HWI-EAS443:3:29:483:671#0/1
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+HWI-EAS443:3:18:1464:1243#0/1
a^_[U^Yab^¥[_`a^a`[[¥`¥¥___^¥¥H¥_[S_Y¥[W
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+HWI-EAS443:3:33:1493:1452#0/1
aa¥`aaaa`aZaaa``aa__a__^_a¥_¥¥_WUUY_[WZ_
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+HWI-EAS443:3:39:96:397#0/1
a`aaa`P[aa__`^__¥XU_¥_YYW[[NZW¥ZTVT¥^^W¥
@HWI-EAS443:3:40:205:598#0/1
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+HWI-EAS443:3:40:205:598#0/1
ab_``_`_`aa_____`[Z^]S]_TFRS`[_¥a_WW_]X
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+HWI-EAS443:3:42:584:1058#0/1
a_babbbbbb^aa`aa`baa_a_[¥`_a^aaYa]^]PV`_Z
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+HWI-EAS443:3:43:983:1532#0/1
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+HWI-EAS443:3:46:1299:179#0/1
Z_TX_]GXZVNYW^^[Z^^S¥XY¥ZXTOYY`Y¥OMYPY
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+HWI-EAS443:3:53:1438:1660#0/1
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ATCCACAGCACGCTGCTGTTCCCTGTTGATATTCTCCCTC
+HWI-EAS443:3:5:212:2033#0/1
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@HWI-EAS443:3:66:373:1519#0/1
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+HWI-EAS443:3:66:373:1519#0/1
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+HWI-EAS443:3:69:1534:1361#0/1
``abV`^_¥UW_[[a]Mbbau^`aYT]WG]`YN[PS]^`V
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+HWI-EAS443:3:75:451:1018#0/1
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+HWI-EAS443:3:86:559:1926#0/1
_Z_YVba¥¥a`Z`aZT^] ^MZ¥] ¥XTYG[WU[SQ_¥^^Z^
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ACATCCACAGCACTCTGCTGTTCCCTGTTGATATACTTCCC
+HWI-EAS443:3:9:1194:326#0/1
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+HWI-EAS443:3:29:1207:724#0/1
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+HWI-EAS443:3:69:660:548#0/1
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aa_a¥_a[_`^]X`¥]W`_^Z]___¥_¥ZDP[TZXVW¥
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+HWI-EAS443:3:30:516:1505#0/1
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aaa`baabaa[D^_aaaa`aTa`a¥__a`aa`^`^`a`__
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`_a_a¥^aaaa__a]SDZ__a¥a^^_Z^]Z`Z¥W^`W`
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+HWI-EAS443:3:83:1564:802#0/1
]_^¥Z¥`_P_RDUYbaa_`a`bU`a¥^a__QJSaZUa
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+HWI-EAS443:3:86:1368:1091#0/1
`Xaa]^aaaaaXJ_^Z][aZa^]]UDTYa__[_¥¥¥Q_^
@HWI-EAS443:3:92:355:57#0/1
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+HWI-EAS443:3:92:355:57#0/1
a`VY_a^[X^_XaUP¥`[TYU[MDJ_[N]RSYNFVUMWWB
@HWI-EAS443:3:10:1723:2041#0/1
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+HWI-EAS443:3:10:1723:2041#0/1
a`^¥aa`_XV_^`^`__^___^`_V]]X_]`¥X]TKT
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+HWI-EAS443:3:23:663:618#0/1
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@HWI-EAS443:3:26:1244:790#0/1
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+HWI-EAS443:3:26:1244:790#0/1
^MQV_a]W¥^¥^`R^)`Y¥X]_]OZ¥R^__ZNLVYUW
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+HWI-EAS443:3:36:1005:116#0/1
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+HWI-EAS443:3:15:527:713#0/1
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+HWI-EAS443:3:18:1506:1373#0/1
a`a`__b]`aaa`^`aa_a_a`_a`a`Z__`_`^__]¥
@HWI-EAS443:3:22:1612:824#0/1
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+HWI-EAS443:3:22:1612:824#0/1
`Z[_V_b]XS¥a_S`a¥```_a`]Paa]a¥S¥_Y]U¥_

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+HWI-EAS443:3:25:1766:1358#0/1
aba`ab_X_R[a`aaa`¥b_WZbabb`bb``ZY[aabb[a
@HWI-EAS443:3:27:1734:645#0/1
ACCTGTTGATATTCTTCCCTCATGGACTCAGGCACTCCTT
+HWI-EAS443:3:27:1734:645#0/1
``_bbabbbbaaaa`aa``_a`_aa]¥`_a`U¥^^_W¥_
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[`X`ZQZabb_`^0VT__`[^aa[`R`aSaa`a_b`aZ`b
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+HWI-EAS443:3:32:690:1604#0/1
aabaa`aa`aaaa``]V¥`a_aa_a_aaaTa_[]`R¥^a]
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CGCCTGAGTCCATGAGGGAAGAATATCAACAGGAACAGCA
+HWI-EAS443:3:35:1608:1005#0/1
^WO¥__R[T_[][_Y_¥`WWbaa^__Q]H[X[¥R[TX`RN
@HWI-EAS443:3:39:704:846#0/1
CGCCTGAGTCCATGAGGGAAGAATATCAACAGGAACAGCA
+HWI-EAS443:3:39:704:846#0/1
a``aa`ab^ba]bbabba^bab``aaabbbba`Saaaa_
@HWI-EAS443:3:39:781:92#0/1
CGCCTGAGTCCATGAGGGAAGAATATCAACAGGAACAGCA
+HWI-EAS443:3:39:781:92#0/1
G^aZba_a^baZa`abbb^bb]abb`X_WXabab_abb_X
@HWI-EAS443:3:42:1076:470#0/1
AGAGGGAAGAATATCAACAGGAACAGCAGAGTGCTGTGGA
+HWI-EAS443:3:42:1076:470#0/1
ab`bbbaab^baab`abababaa^aaa`bX`^a^aaaaaB
@HWI-EAS443:3:42:346:783#0/1
CGCCTGAGTCCATGAGGGAAGAATATCAACAGGAACAGCA
+HWI-EAS443:3:42:346:783#0/1
abbbbaXa[bbab_^_b`_bb`baaaXZ`Z`]`^aa`a
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+HWI-EAS443:3:49:1242:1085#0/1
`aaabbab`a`aba`aba_aa``aaaaaYaaaaa]a`a`
@HWI-EAS443:3:49:298:1603#0/1
GAAGAATATCAACAGGAACAGCAGAGTGCTGTGGATGTTT
+HWI-EAS443:3:49:298:1603#0/1
]aaaabbbba_`babbbababaababa_babaaa_`a[HUH
@HWI-EAS443:3:50:20:1501#0/1
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+HWI-EAS443:3:50:20:1501#0/1
aaaa`Zaa^^`¥aa^`a`a`a]]`¥^a^a__^ZR]]G¥
@HWI-EAS443:3:51:1678:466#0/1
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+HWI-EAS443:3:51:1678:466#0/1
Sab¥M`_bbb]_b^_a_abbabbb`W¥bba`T`ba_V_ab
@HWI-EAS443:3:58:309:1287#0/1
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+HWI-EAS443:3:58:309:1287#0/1
aa`¥]b_a__`a]a`_aaTX¥TUZ`a``aa_¥_`[_`____
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CGCCTGAGTCCATGAGGGAAGAATATCAACAGGAACAGCA
+HWI-EAS443:3:59:842:847#0/1
`aabbbaaaab]aaaa^`^baZaaa`b`ba_[¥¥TPN^QT
@HWI-EAS443:3:61:1738:862#0/1
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+HWI-EAS443:3:61:1738:862#0/1
``abb_bbaaabaSabbababbaaaa`aa``UU`[^SRYY
@HWI-EAS443:3:6:738:1580#0/1
GGCCTGAGTCCATGAGGGAAGAATATCAACAGGAACAGCA
+HWI-EAS443:3:6:738:1580#0/1
a``b][ZRLJWVYXUV]¥]RU]`[P[U`_V`Y`T`Z`_`^B
@HWI-EAS443:3:72:820:1409#0/1
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+HWI-EAS443:3:72:820:1409#0/1
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@HWI-EAS443:3:74:1044:101#0/1
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+HWI-EAS443:3:74:1044:101#0/1
ab^abbabaabbbbabbbbabbabb`baababa`^abXa
@HWI-EAS443:3:74:1675:843#0/1
ACTGAGTCCATGAGGGAAGAATATCAACAGGAACAGCAGA
+HWI-EAS443:3:74:1675:843#0/1
aaaaQ]_ababbR`_a`_^_aba^U¥aJ`ba`^WR^U_aZ
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+HWI-EAS443:3:74:625:31#0/1
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@HWI-EAS443:3:75:529:1144#0/1
CGCCTGAGTCCATGAGGGAAGAATATCAACAGGAACAGCA
+HWI-EAS443:3:75:529:1144#0/1
]_¥_b_R_X`____W¥¥W_aa¥X^bab_Saa_a``[_Z]`
@HWI-EAS443:3:77:1300:400#0/1
GTCGTCAACATCCACAGCACTCTGCTGTTCTGTTGATAT
+HWI-EAS443:3:77:1300:400#0/1
VW¥_baa[Q[bWTMYMZaY`bVbb`Nb]``a`MU[_¥a`R
@HWI-EAS443:3:79:1654:531#0/1
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+HWI-EAS443:3:79:1654:531#0/1
abaa`baab`^abaVbbaaabaaaa^ab_aab`Q``Za

@HWI-EAS443:3:86:341:765#0/1
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+HWI-EAS443:3:86:341:765#0/1
¥¥`a`a_W_^_Z[¥Z¥Z[_[^Z¥Z_`_Z^^_RW]_baSK]
@HWI-EAS443:3:96:1210:1228#0/1
GCCATGAGGGAAGAATATCAACAGGAACAGCAGAGTGCTG
+HWI-EAS443:3:96:1210:1228#0/1
a^a¥aa^^`Z`a_]T_`W_¥V_^Z^^¥a]¥_`^ZU^P^B
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+HWI-EAS443:3:100:839:231#0/1
aY`^bZaY^X]`a¥`aa^aa_S_`¥T__U``_Y¥WY_BBB
@HWI-EAS443:3:100:97:2023#0/1
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+HWI-EAS443:3:100:97:2023#0/1
abaaaa`ba[bb`a`aa_a`_a__`__`^aU_¥_^^UUB
@HWI-EAS443:3:10:1041:1294#0/1
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+HWI-EAS443:3:10:1041:1294#0/1
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@HWI-EAS443:3:10:1176:52#0/1
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+HWI-EAS443:3:10:1176:52#0/1
a`a^^`Za_Va_a`ZZV_^[_`_Za_¥U`YR[ZVXUUUV[ZY
@HWI-EAS443:3:10:179:719#0/1
CATGAGGGAAGAATATCAACAGGAACAGCAGAGTGCTGTG
+HWI-EAS443:3:10:179:719#0/1
abaZX_WZ¥`aS_aa`^^]^_ZSYZR^`aaa`aVa``]BB
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GCCTGAGTCCATGAGGGAAGAATATCAACAGGAACAGCAG
+HWI-EAS443:3:10:236:1271#0/1
`aa`a^a¥aaZ`Z`^_¥``_a_^_____]__¥`_V__
@HWI-EAS443:3:10:738:1698#0/1
TGAGTCCATGAGGGAAGAATATCAACAGGAACAGCAGAGT
+HWI-EAS443:3:10:738:1698#0/1
abba[aa__ba^___aa``[¥_[W[[`aX`_]`]X¥^_TU
@HWI-EAS443:3:10:833:861#0/1
GCCTGAGTCCATGAGGGAAGAATATCAACAGGAACAGCAG
+HWI-EAS443:3:10:833:861#0/1
a_]^^`a^__^_^[_`YX__Z___SDV_V`_W¥¥Q^VQV¥
@HWI-EAS443:3:11:1241:694#0/1
GACCATCGTCAACATCCACAGCACTCTGCTGTTCCCTGTTG
+HWI-EAS443:3:11:1241:694#0/1
aa`aaa`aZSbaX__`_V__^Y`Y¥_a^X¥V[`XNU_X_]`
@HWI-EAS443:3:11:1513:202#0/1
CCTGAGTCCATGAGGGAAGAATATCAACAGGAACAGCAGA
+HWI-EAS443:3:11:1513:202#0/1
`bba^^`babbbaa`ab`aaa```a^a_a`__`_Y¥`¥
@HWI-EAS443:3:12:336:228#0/1
TGTTGATATTCTCCCTCATGGACTCAGGCACTCCTCCG

+HWI-EAS443:3:12:336:228#0/1
abYF_a_aaa_`baaaaa_aa_`^_````_`[¥¥W¥¥W¥U
@HWI-EAS443:3:12:947:153#0/1
GTTCTGTTGATATTCTTCCCTCATGGACTCAGGCACTCC
+HWI-EAS443:3:12:947:153#0/1
`^`^`[`aaaba¥aa^R_`aaa¥TY]aa_`[_`_QVZ[_WZZ
@HWI-EAS443:3:13:1092:818#0/1
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+HWI-EAS443:3:13:1092:818#0/1
aaaaaa`aaaa`U`aa`aa`aa`aaa`^aa`_`^¥`a]¥`_`
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+HWI-EAS443:3:13:1762:2022#0/1
aaaa_`[_`aaaSY[]`_]_a_aaT[KV]Y]NJOV`¥`_BBBB
@HWI-EAS443:3:13:452:1549#0/1
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+HWI-EAS443:3:13:452:1549#0/1
M^`Q`a`a¥]ZWZ]^J[aWZPIP`^`^`TTWa_BBBBBB
@HWI-EAS443:3:13:547:165#0/1
GTGCCTGAGTCCATGAGGGAAGAATATCAACAGGAACAGC
+HWI-EAS443:3:13:547:165#0/1
a_a`_`a`_¥`[_`_Z^``¥]`____¥W¥^¥W_¥¥U¥W^¥S
@HWI-EAS443:3:13:625:159#0/1
GCCTGAGTCCATGAGGGAAGAATATCAACAGGAACAGCAG
+HWI-EAS443:3:13:625:159#0/1
`Z[^]`OH`]`aYV]`[¥Y¥TOX^]URKVU¥UVVZZGZ^
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CAGCACTCTGCTGTTCTGTTGATATTCTTCCCTCATGGA
+HWI-EAS443:3:13:694:168#0/1
Yaaa[[a``[a]][[Z_V^]¥¥X^¥ZSXNRU^W]WUBB
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+HWI-EAS443:3:13:866:1346#0/1
a^a`_`W^a__^S`^Wa`_`^¥`_¥Z`WS_S¥¥W^]N^]B
@HWI-EAS443:3:14:1159:1874#0/1
GAGGGAAGAATATCAACAGGAACAGCAGAGTGCTGTGGAT
+HWI-EAS443:3:14:1159:1874#0/1
aZ_XR^aa`^X[]`^^b`W]]V_NKZ^_XR_ZV`BBBBB
@HWI-EAS443:3:14:203:1096#0/1
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+HWI-EAS443:3:14:203:1096#0/1
aaa`[aaaaa`a__aa^_`a^^]`_`^Z__Z^]WV_]`^]
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CCTGAGTCCATGAGGGAAGAATATCAACAGGAACAGCAGA
+HWI-EAS443:3:14:236:214#0/1
aX]]J_¥¥a`_`__aYU_`[Z__X`^TU^a¥^¥Y^_`^ZU
@HWI-EAS443:3:14:476:98#0/1
GCCTGAGTCCATGAGGGAAGAATATCAACAGGAACAGCAG
+HWI-EAS443:3:14:476:98#0/1
aa`aa_a_a]_`b_aa`^`__¥_]`^U^_`^`_]`^`_]WX_

@HWI-EAS443:3:15:1034:480#0/1
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+HWI-EAS443:3:15:1034:480#0/1
abbaabaaaabaaa_aaba_bbaa__bb`ab`baba]aa]
@HWI-EAS443:3:15:1309:1579#0/1
GTGCCTGAGTCCATGAGGGAAGAATATCAACAGGAACAGC
+HWI-EAS443:3:15:1309:1579#0/1
a_a`abaaaa^`a`a`ba`_`baaa`a_aa_aaa_^^aa]
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CACAGCACTCTGCTGTTCCCTGTTGATATTCTTCCCTCATG
+HWI-EAS443:3:15:1384:1258#0/1
IZbbbb_`WYb```bb__^]a`a[¥baaWR^¥^¥^`aba_
@HWI-EAS443:3:15:266:615#0/1
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+HWI-EAS443:3:15:266:615#0/1
a_a``SWOQGX¥`XXVQT`WV¥]a^[Z`XHV[VaUaZ¥^¥
@HWI-EAS443:3:15:314:1468#0/1
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+HWI-EAS443:3:15:314:1468#0/1
aaa¥PR]]aa`]aZW_a^_VXHT```a`X`]YZW¥^¥Y^^
@HWI-EAS443:3:16:1214:1027#0/1
GCCTGAGTCCATGAGGGAAGAATATCAACAGGAACAGCAG
+HWI-EAS443:3:16:1214:1027#0/1
aaa[bab^aZ]bbabaaa`a`Vaa``aaaaa__W`a^``
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AGTGCCTGAGTCCATGAGGGAAGAATATCAACAGGAACAG
+HWI-EAS443:3:16:70:1749#0/1
^OXZ[]^ZVRV^^ZW^W]a¥X^aa`¥]`[`¥X]PMYXU_T
@HWI-EAS443:3:16:819:227#0/1
GCCTGAGTCCATGAGGGAAGAATATCAACAGGAACAGCAG
+HWI-EAS443:3:16:819:227#0/1
aaY`a]^[_`__`a^^^Y_`^_]¥^U_[UWZ¥¥WSMVTUW
@HWI-EAS443:3:16:942:60#0/1
TGTGATATTCTTCCCTCATGGACTCAGGCACTCCTTCCG
+HWI-EAS443:3:16:942:60#0/1
`baaaa`abb`aaaa`a_`b^aU_a^_a_U`T^¥Y_VUVB
@HWI-EAS443:3:17:1635:564#0/1
GTTGATATTCTTCCCTCATGGACTCAGGCACTCCTTCCGT
+HWI-EAS443:3:17:1635:564#0/1
aaaaa__`a_`_]_^¥¥¥_`ZX¥¥^¥¥^_W¥VS[VTWWW
@HWI-EAS443:3:17:64:1474#0/1
TGCCTGAGTCCATGAGGGAAGAATATCAACAGGAACAGCA
+HWI-EAS443:3:17:64:1474#0/1
aba¥_Zb]aaa[[_abababbaa[``_ababba^aaab_a
@HWI-EAS443:3:17:946:731#0/1
ATCGTCAACATCCACAGCACTCTGCTGTTCCCTGTTGATAT
+HWI-EAS443:3:17:946:731#0/1
aaaa_aaa¥aa```^`W_]_^`^aa[aSLXa]__]Y]_
@HWI-EAS443:3:17:960:88#0/1
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+HWI-EAS443:3:17:960:88#0/1
aQZU]GXaaR_MTU^]Z__aRFS[ZS_RZ[P^VSVN[BBB
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GTGCCTGAGTCCATGAGGGAAGAATATCAACAGGAACAGC
+HWI-EAS443:3:18:1067:1202#0/1
a````aaa``^¥_aa¥aa`U¥__`[`YW_a^``__^__Z
@HWI-EAS443:3:18:1211:1561#0/1
GTTGATATTCTTCCCTCATGGACTCAGGCACTCCTTCCGT
+HWI-EAS443:3:18:1211:1561#0/1
a`aba^_a`a``^Wa`_`a`Z^`_`^`^`^`XR¥`W
@HWI-EAS443:3:18:181:1237#0/1
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+HWI-EAS443:3:18:181:1237#0/1
a_aaaa`ab`aaa_a_aaa_a`aaaa_aa`aa``a_a_a
@HWI-EAS443:3:18:638:296#0/1
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+HWI-EAS443:3:18:638:296#0/1
a_``aaa^`_aaa^_¥[[¥]]_W_Y¥]YZZWWWYUWYWQ¥
@HWI-EAS443:3:19:1053:1085#0/1
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+HWI-EAS443:3:19:1053:1085#0/1
aaUY]a_`Kbb_``¥aX)`aa_L¥aW`bU_``^XV`_a
@HWI-EAS443:3:19:1138:189#0/1
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+HWI-EAS443:3:19:1138:189#0/1
ab_babVbaab`Y]MabbaUb`_I]]]Jb][baU``^¥`G^
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TACGGAAGGAGTGCCTGAGTCCATGAGGGAAGAATATCAA
+HWI-EAS443:3:19:115:392#0/1
aaa^aaaa^a_W^`a````^Z`_X`^`X`_a^QYPZa``
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GCCTGAGTCCATGAGGGAAGAATATCAACAGGAACAGCAG
+HWI-EAS443:3:1:114:964#0/1
a)`aa¥aNaa¥__S[aRa`)`¥Z]a_N^_¥¥VSW`¥¥_BBB
@HWI-EAS443:3:1:1283:1206#0/1
GTTCCCTGTTGATATTCTTCCCTCATGGACTCAGGCACTCC
+HWI-EAS443:3:1:1283:1206#0/1
a`aY¥a`_aa^_^_`_]`¥^W^__XYS]V¥X]YZYBBB
@HWI-EAS443:3:1:1729:757#0/1
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+HWI-EAS443:3:1:1729:757#0/1
aa^`H¥aU`a_a``¥X]a_Ua`T^a)]`UaaG_aa¥BBBB
@HWI-EAS443:3:1:584:1155#0/1
GAGGGAAGAATATCAACAGGAACAGCAGAGTGCTGTGGAT
+HWI-EAS443:3:1:584:1155#0/1
a``XWR_]`_Ua[[¥UY`Z¥`¥WY^¥__^T_Q¥]WBBBB
@HWI-EAS443:3:20:240:236#0/1
GTGCCTGAGTCCATGAGGGAAGAATATCAACAGGAACAGC
+HWI-EAS443:3:20:240:236#0/1
aVa_]X`^]Qa^__`¥`aWS_^_^^^[]¥]¥^W¥¥]W¥¥U

@HWI-EAS443:3:20:597:121#0/1
GTGCCTGAGTCCATGAGGGAAGAATATCAACAGGAACAGC
+HWI-EAS443:3:20:597:121#0/1
a_a^^`aWa_`^` [Z`_^Y__¥¥¥^¥_^YY^UT[WU¥W]
@HWI-EAS443:3:20:624:1795#0/1
CATCCACAGCACTCTGCTGTTCCCTGTTGATATTCTTCCCT
+HWI-EAS443:3:20:624:1795#0/1
aa] []Ybb_¥` ` _`QbaX¥[` _¥¥a¥LQQG^[US¥W¥ZNP
@HWI-EAS443:3:21:1284:450#0/1
GCCTGAGTCCATGAGGGAAGAATATCAACAGGAACAGCAG
+HWI-EAS443:3:21:1284:450#0/1
aaaaa_XP_^^`][` `¥_]` __[]R]aZ_^Y[WV_]MM^
@HWI-EAS443:3:21:496:350#0/1
GCCTGAGTCCATGAGGGAAGAATATCAACAGGAACAGCAG
+HWI-EAS443:3:21:496:350#0/1
a]NNXU_]RRNSVQ`¥^YXZUVN¥X¥R[TSXYSZNRSVVW
@HWI-EAS443:3:22:1339:58#0/1
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+HWI-EAS443:3:22:1339:58#0/1
aa_¥ab`b`__aa¥a`a`a`^___S_^Y_`¥^¥Y¥_U¥
@HWI-EAS443:3:22:1644:924#0/1
CCTGAGTCCATGAGGGAAGAATATCAACAGGAACAGCAGA
+HWI-EAS443:3:22:1644:924#0/1
`¥I_bbbaaZ`bTZaaZaaa^ab^aSa]U^` `VRDSZIdW[
@HWI-EAS443:3:22:1764:1135#0/1
GGGAAGAATATCAACAGGAACAGCAGAGTGCTGTGGATGT
+HWI-EAS443:3:22:1764:1135#0/1
X¥XW^b] `]Z^^_]V_a_XXDT_PZaU]SZXW_BBBBBBB
@HWI-EAS443:3:22:231:710#0/1
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+HWI-EAS443:3:22:231:710#0/1
aaba_`baaaaa_a_a_aaa^a[_`_^U`_]____]_^
@HWI-EAS443:3:22:359:452#0/1
ACAGCACTCTGCTGTTCCCTGTTGATATTCTTCCCTCATGG
+HWI-EAS443:3:22:359:452#0/1
abaaaaaaaa`a_X^Xa_`[a¥` ` `¥__X`^`¥¥¥_`^`^_
@HWI-EAS443:3:23:1203:120#0/1
TGCTGTTCCCTGTTGATATTCTTCCCTCATGGACTCAGGCA
+HWI-EAS443:3:23:1203:120#0/1
abaab_a[`ab`aa^aZaaT`a¥WW]aW_`]¥Y¥Y¥^YT¥
@HWI-EAS443:3:23:1520:2012#0/1
CTGAGTCCATGAGGGAAGAATATCAACAGGAACAGCAGAG
+HWI-EAS443:3:23:1520:2012#0/1
a_Q_aaa]_^`_[Z[Y`a`ab`ZUWb¥b_]_[Q^aX___U
@HWI-EAS443:3:23:713:389#0/1
TGTTGATATTCTTCCCTCATGGACTCAGGCACTCCTCCG
+HWI-EAS443:3:23:713:389#0/1
abWY¥abTb]V`_R_Ra`Z]^QW¥_`¥_¥a^V^HS_`[YQ
@HWI-EAS443:3:24:769:937#0/1
CATCGTCAACATCCACAGCACTCTGCTGTTCCCTGTTGATA

+HWI-EAS443:3:24:769:937#0/1
aba¥[_bba_abba`aaaY`__aabaaaYa^[a_NTX¥[X
@HWI-EAS443:3:25:160:948#0/1
GTGCCTGAGTCCATGAGGGAAGAATATCAACAGGAACAGC
+HWI-EAS443:3:25:160:948#0/1
Uaa`a`¥aaa`a[a¥^_a`^¥^^^a]__`_`_`__^U
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U_bbbaaabbbabbbaabbabbabaabbbbbbb^bbbbba
@HWI-EAS443:3:25:393:1147#0/1
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+HWI-EAS443:3:25:393:1147#0/1
abbb`baa^_b[aaaa`W`aa_a_aaa¥a__]_^a____
@HWI-EAS443:3:25:818:668#0/1
CACAGCACTCTGCTGTTCTGTTGATATTCTTCCCTCATG
+HWI-EAS443:3:25:818:668#0/1
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@HWI-EAS443:3:26:105:133#0/1
GTGCCTGAGTCCATGAGGGAAGAATATCAACAGGAACAGC
+HWI-EAS443:3:26:105:133#0/1
¥Zb`[b`Ta_b`_`aabbba`bbba]^a^a``aaaa_aa
@HWI-EAS443:3:26:217:1370#0/1
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+HWI-EAS443:3:26:217:1370#0/1
aT`bb_ba]Saa_Z[T`ba`]ZY_a¥a[^_VSV]aXNTQW
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CGTCAACATCCACAGCACTCTGCTGTTCTGTTGATATTC
+HWI-EAS443:3:26:848:201#0/1
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@HWI-EAS443:3:26:893:1249#0/1
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+HWI-EAS443:3:26:893:1249#0/1
abb^^`bbabaaa]aaaabaaaaaa_baa``aa^G^a_`
@HWI-EAS443:3:27:1033:1914#0/1
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WV`Y`aZb¥a_b`^WZb_WW¥aabb]b`[`]a^`_a[`a
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+HWI-EAS443:3:27:1214:461#0/1
a`ababba`aabb`aba`_aaaaa`aa_aa`_`_aa¥^_
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+HWI-EAS443:3:27:324:1010#0/1
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@HWI-EAS443:3:27:412:609#0/1
TTGATATTCTTCCCTCATGGACTCAGGCACTCCTTCCGTA
+HWI-EAS443:3:27:412:609#0/1
abaaa`aa]aaa`^a`_a`aaa_a`_¥a`__a`_¥`__G_

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_`abY]bab`bZTQ_b_`bbbb]babaa_a`_^`Y`aa
@HWI-EAS443:3:27:79:1931#0/1
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+HWI-EAS443:3:27:79:1931#0/1
abb_R_aZbbb^aa]]^`aabb_`abbabbaa_`]a_aa`
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+HWI-EAS443:3:28:1692:1756#0/1
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+HWI-EAS443:3:29:1005:1976#0/1
aa`¥`U`a^¥]ZLW^XSY`_]`_U__ZNZ[¥STZN_[WB
@HWI-EAS443:3:29:1082:308#0/1
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+HWI-EAS443:3:29:1082:308#0/1
K[[^WUT^_WT_[^SUUW]a[Q]a¥aaJ¥UK¥a_QM[_P_
@HWI-EAS443:3:29:412:578#0/1
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+HWI-EAS443:3:29:412:578#0/1
`_bb]``]abbbbaaaaaaaaaaaaa`a^^_``aT]RZ][
@HWI-EAS443:3:29:847:1481#0/1
GTCCATGAGGGAAGAATATCAACAGGAACAGCAGAGTGCT
+HWI-EAS443:3:29:847:1481#0/1
a`a`_XT00X]aa^¥_a[a`¥aa`ZYV¥][¥X^_¥FYBB
@HWI-EAS443:3:30:1324:1045#0/1
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+HWI-EAS443:3:30:1324:1045#0/1
`b_ba^W_ba^^a]ZaZaa`X_``aaa]_PXXZ¥SZ[VU]
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+HWI-EAS443:3:30:367:270#0/1
aabbabbbabbaabbabaa`aa`baaaa_`aaaa``[RY_
@HWI-EAS443:3:30:971:899#0/1
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+HWI-EAS443:3:30:971:899#0/1
^]WXOZaN]``XLZS^`ZZ_W¥VTG¥NTT_YTUZGUXGU¥
@HWI-EAS443:3:31:1076:923#0/1
TTCCTGTTGATATTCTCCCTCATGGACTCAGGCACTCCT
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ababbbabbbabb`baaaaaaaaaaaa`aaa`_a`_````
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a_bVa`a_b[_`]aa^`[`a`__`___`¥_`^a_¥aaa^
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+HWI-EAS443:3:32:191:526#0/1
`bbaaaaabbaa_X^U^a)`aa`a`aaaa` `[aaaa`Q`
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+HWI-EAS443:3:33:1202:163#0/1
aaaabbaba`aaba`bbb` `aaaaaUa`_a`VW¥Y__¥^
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+HWI-EAS443:3:33:309:290#0/1
aa^`^`_^^`__`¥`_`_`V`__`[[N]W[_`^¥¥VVWZ[WTW
@HWI-EAS443:3:33:563:689#0/1
CTGCTGTTCTGTTGATATTCTTCCCTCATGGACTCAGGC
+HWI-EAS443:3:33:563:689#0/1
a^`[^`]VT`^`R_` `[__`[ZVZSZ` `[`[UUZVQUUUWWS
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+HWI-EAS443:3:34:1245:204#0/1
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@HWI-EAS443:3:35:1002:1245#0/1
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+HWI-EAS443:3:35:1002:1245#0/1
Ua¥` `[`a`[_`¥W_¥a^TZX_`aUQWIQRTX]RL[_`W]HY
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+HWI-EAS443:3:35:125:1212#0/1
aaaaaaaaabaa[aaaa`¥^aaa]aaaa[_`_`X`a__Y_^
@HWI-EAS443:3:35:1286:1066#0/1
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ab_]aababa`aaaaaaaaa__a`aa_`a` `aa_`__Y`
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+HWI-EAS443:3:35:930:111#0/1
[WUQQ_WPOP__¥`ba]LGRUR`QXZYaVV`_IOGSYVYQ
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+HWI-EAS443:3:35:979:421#0/1
abbbbaaba_baaaa`aa[_`Za`¥a[^a`_`^^`X`]
@HWI-EAS443:3:36:1458:641#0/1
CAGCACTCTGCTGTTCTGTTGATATTCTTCCCTCATGGA
+HWI-EAS443:3:36:1458:641#0/1
abbabbbbaa]aaaa^baa_aa`^aaaPaaa^[[a]X[^
@HWI-EAS443:3:36:178:535#0/1
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+HWI-EAS443:3:36:178:535#0/1
aa^aaaaaaaaabaa__a^a`aa`^^V`][`_`_`XaaW` `W

@HWI-EAS443:3:36:53:750#0/1
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+HWI-EAS443:3:36:53:750#0/1
aaaba`b`_a__a^X_a`a`_a¥aY^__`W_¥_] ^U_
@HWI-EAS443:3:36:767:93#0/1
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+HWI-EAS443:3:36:767:93#0/1
aabaaa````a`aab`baa¥`a```^`S]^____`_`____
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+HWI-EAS443:3:37:1547:591#0/1
a`_W_Uaba¥aY_¥XH_S`_W_W[YQ`aJO]a`aOR_b_
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aWI]a`[]bYa_[¥^[[aaWOS_aa_QWTSUW[ZW[]][UF
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+HWI-EAS443:3:38:407:1138#0/1
a`Z]^VU][Q]SZTOWH^ZVPV]V`XNXNZS[R[ZZ^SSQ
@HWI-EAS443:3:38:823:1521#0/1
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+HWI-EAS443:3:38:823:1521#0/1
ababaaaaaaaa`aa^a`a`^aZ¥`Q__T^¥¥_Y¥¥_Y
@HWI-EAS443:3:39:1083:540#0/1
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+HWI-EAS443:3:39:1083:540#0/1
a`babaabaa_aa_aaa`^a¥a`a`¥Z`_a`W_aa__¥^¥
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+HWI-EAS443:3:39:1159:1126#0/1
abab_`^^]`_aSaaaVa_WW_[`aZZ^`_TWS_XW¥TR
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+HWI-EAS443:3:39:1372:366#0/1
a`bb]]¥]`aaa¥a`b`aaa`aa`_a`_a_¥Va[¥a^^aU
@HWI-EAS443:3:39:1538:1317#0/1
GACCATCGTCAACATCCACAGCACTCTGCTGTTCCCTGTTG
+HWI-EAS443:3:39:1538:1317#0/1
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+HWI-EAS443:3:39:1602:54#0/1
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+HWI-EAS443:3:39:1747:737#0/1
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+HWI-EAS443:3:39:324:927#0/1
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@HWI-EAS443:3:39:388:1874#0/1
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+HWI-EAS443:3:39:388:1874#0/1
aaab_a`_abaa`a```aaaab`aaaa`a¥T```a_`W
@HWI-EAS443:3:39:412:1688#0/1
CTGAGTCCATGAGGGAAGAATATCAACAGGAACAGCAGAG
+HWI-EAS443:3:39:412:1688#0/1
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@HWI-EAS443:3:39:737:659#0/1
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+HWI-EAS443:3:39:737:659#0/1
abbbbbbaaaabba`bbaaaa`aaaaaaaa`¥_`aaa`a]
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+HWI-EAS443:3:3:1055:565#0/1
^a_^b`a[`a_[aa`V_a]a[a^a]a]FX]V]W]_a_ZX^
@HWI-EAS443:3:40:603:235#0/1
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+HWI-EAS443:3:40:603:235#0/1
`R^X¥X]Y^^¥W¥[[[^ZU¥SUUU¥RNY¥YRRRRWWWYBB
@HWI-EAS443:3:40:773:753#0/1
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+HWI-EAS443:3:40:773:753#0/1
aaZa_U^W__^¥ZM`_^TUXYP¥`VNEW¥___XMV[YUZY
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+HWI-EAS443:3:42:1057:214#0/1
abaa`_b`^`^_aa^aaa`_a^`¥L¥`aa¥`a`^]S]a¥X]
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+HWI-EAS443:3:42:1329:299#0/1
a`_`a`b^aZ^aa^aaaZ^`_`a_a[[WZ^__^[[_a_^_
@HWI-EAS443:3:42:508:691#0/1
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+HWI-EAS443:3:42:508:691#0/1
ab`bb_aZaaaaa_```a_a¥``aaZa`a`a`a___a^a
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CATGAGGGAAGAATATCAACAGGAACAGCAGAGTGCTGTG
+HWI-EAS443:3:42:906:735#0/1
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+HWI-EAS443:3:43:1083:831#0/1
ab`bb^a_]b¥YaYabPZ^XV¥ba_XR¥INWq]`YX`Pa
@HWI-EAS443:3:43:1108:698#0/1
CTGCTGTTCCCTGTTGATATTCTTCCCTCATGGACTCAGGC
+HWI-EAS443:3:43:1108:698#0/1
`Za^`a`VU¥]b`W¥WPW¥Y``]^aaOT¥QZ_a^¥^]U^
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+HWI-EAS443:3:43:1345:837#0/1
aaaaaab_b]a``aaaab`a`a`_`a_aa``aa_`^_a_
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+HWI-EAS443:3:43:184:1691#0/1
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aabaaab`_aaaZa`Xba^Xaa````a`_`[_a_____^
@HWI-EAS443:3:43:523:496#0/1
GTGCCTGAGTCCATGAGGGAAGAATATCAACAGGAACAGC
+HWI-EAS443:3:43:523:496#0/1
a^_WFR_R_T^RaZa[W¥aXURT`aX_MN`TUVGMPW¥¥
@HWI-EAS443:3:44:1567:537#0/1
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+HWI-EAS443:3:44:1567:537#0/1
a__`_bb_baa^¥aa__`a``¥`a`¥`[_`¥¥`]aW_W^
@HWI-EAS443:3:44:996:228#0/1
CTCTGCTGTTCCCTGTTGATATTCTTCCCTCATGGACTCAG
+HWI-EAS443:3:44:996:228#0/1
aaabaabZP]S]]_HV^PRQW`VVZY`^W^NM`YQVZNNY
@HWI-EAS443:3:45:432:869#0/1
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+HWI-EAS443:3:45:432:869#0/1
a_abb_bbbaaaa_aaaaa_`aaa__`a`__a`^`_a_
@HWI-EAS443:3:45:616:1267#0/1
GACCATCGTCAACATCCACAGCACTCTGCTGTTCCCTGTTG
+HWI-EAS443:3:45:616:1267#0/1
aaaaaaa_`a]`]`_`___aY``___]`^aaZ][W_a¥`^
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CCTGAGTCCATGAGGGAAGAATATCAACAGGAACAGCAGA

+HWI-EAS443:3:45:830:1944#0/1
_ab_W_[_PZV^LYR`P_ZY^Y[LWV^P^T¥Y]G][NLU]
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+HWI-EAS443:3:46:1169:319#0/1
aaa]aa^X`UX¥^J[`X^a¥Z^_¥Y[_Z`a^W^Z[`R[_
@HWI-EAS443:3:46:1267:234#0/1
ATCGTCAACATCCACAGCACTCTGCTGTTCCCTGTTGATAT
+HWI-EAS443:3:46:1267:234#0/1
aaaa__a_Y]a`_^]`a`_^`a¥`__^^V^^V^R[^^_
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AGTCCATGAGGGAAGAATATCAACAGGAACAGCAGAGTGC
+HWI-EAS443:3:46:694:430#0/1
a`^_aabb_bbb_aaaaa_a`a`[_aa_a]`aY[a_^N^]
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+HWI-EAS443:3:46:918:1721#0/1
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@HWI-EAS443:3:47:483:1139#0/1
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+HWI-EAS443:3:47:483:1139#0/1
¥]QZaW]¥_^Q¥_^Z`[Z_ZV_X`^T¥[[VZ`QYYWV^a
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GACCATCGTCAACATCCACAGCACTCTGCTGTTCCCTGTTG
+HWI-EAS443:3:47:537:903#0/1
ab_a`aababa`_aaa`a_a`_aa_a^a`aaZ`__`^^a
@HWI-EAS443:3:48:1139:649#0/1
ATCCACAGCACTCTGCTGTTCCCTGTTGATATTCTTCCCTC
+HWI-EAS443:3:48:1139:649#0/1
`a`b`]]`VUX¥`a^V_aQaX_a^W_NPQP[]TY_¥XVnQ
@HWI-EAS443:3:48:1284:128#0/1
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+HWI-EAS443:3:48:1284:128#0/1
ab]`_0]_W`^UXbU`^`]Raa¥¥_SVSX¥RTZ____`P¥Z
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+HWI-EAS443:3:48:1451:355#0/1
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@HWI-EAS443:3:48:1640:733#0/1
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+HWI-EAS443:3:48:1640:733#0/1
a`_b`^[_¥]bbabbbabbaaaaaTba_bba`a_ab^Z`_
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+HWI-EAS443:3:48:325:2017#0/1
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+HWI-EAS443:3:49:1150:1192#0/1
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+HWI-EAS443:3:49:1219:1606#0/1
aa^`ab^¥`a^^a`R__Z]_a^`Z_____^W^Z_¥_] [_Q¥
@HWI-EAS443:3:49:388:976#0/1
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+HWI-EAS443:3:49:388:976#0/1
aa`ab_aaaaaa[¥a¥__`_aa`a`__a__XaY__[\`
@HWI-EAS443:3:49:952:620#0/1
GCACTCTGCTGTTCTGTTGATATTCTTCCCTCATGGACT
+HWI-EAS443:3:49:952:620#0/1
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@HWI-EAS443:3:4:144:1854#0/1
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+HWI-EAS443:3:4:144:1854#0/1
Z_¥[]`Zb^^aba_aS¥abaaaa`a^aaa`^a_a_X]a
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+HWI-EAS443:3:4:958:1806#0/1
a_`ZaaaaaZ_aaaa`aa_`a````a[a^¥^`__`¥aaW
@HWI-EAS443:3:50:1285:275#0/1
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+HWI-EAS443:3:50:1428:566#0/1
ab``aaba]b_aaabb^baa_aa`_aaa]aa_a_``a`aa
@HWI-EAS443:3:50:1695:159#0/1
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+HWI-EAS443:3:50:1695:159#0/1
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+HWI-EAS443:3:50:207:711#0/1
Yaabbbb_b`aaa_baa_aa`aa`aa]aba``ZaaPaa
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+HWI-EAS443:3:51:1745:889#0/1
aabaaaba`aa`a¥^a_`[]^U¥^TZa¥V[^^]_YL[[[
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+HWI-EAS443:3:51:557:852#0/1
a]^aXQXOV_Q`X¥Z¥[N[[¥aX]WYJ^SR[ZV_SZZLU`
@HWI-EAS443:3:52:1395:1297#0/1
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+HWI-EAS443:3:52:1395:1297#0/1
aaaa`b^a`aaa`aa`_aa_aa`a_aa¥a_`__W`]U^_
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+HWI-EAS443:3:53:1066:1086#0/1
a__^a]b`aa`aa]aaU]_`a^a`aa^_]aa__a__¥]_X
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+HWI-EAS443:3:53:1428:1308#0/1
ab^b^I_bb_Ybaaa`abbab`a``bbWab]U`aZa`_]_Y
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aaaab`aba`aba^a_a_aa__aa[^__a`_]a`_`^^^
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aaW[_`bb`aa``abbabb^_aa`babaaaaVaaaa`Za`
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+HWI-EAS443:3:54:122:1865#0/1
[a_N]ab``_aab]a¥UXa[ba`a]aaaa]X`_aa¥¥^]
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+HWI-EAS443:3:54:1343:1265#0/1
aa^a¥_YW``_]_W_Xa`_`X]]__[^`VX_``]¥a_
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+HWI-EAS443:3:54:222:501#0/1
aaaaaabb^_a``aa_ab```^_`a¥_`¥WT¥¥TY`U^W[U
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aa``baaaZa`^]a`a^__aa¥aaVZ^^YY_`T¥¥]ZZS
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`[^`a^ab`aa^aW`¥W`aU¥Z^[^`V[S`Z^aWP[VYW¥
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^bK^bba[Vbbaaab_a_bbab[_a_`bbZZaaab_baab
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+HWI-EAS443:3:55:260:658#0/1
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@HWI-EAS443:3:56:758:140#0/1
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+HWI-EAS443:3:56:758:140#0/1
[`^a^bababa_aaab¥baaZaaaa`a``a_a``_a[`a
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TGACCATCGTCAACATCCACAGCACTCTGCTGTTCCCTGTT
+HWI-EAS443:3:57:1128:273#0/1
a^``^aaaa_aa`_aa`_[¥`a[`]`^____a]^¥[Y¥V_
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+HWI-EAS443:3:57:212:1875#0/1
Ub^[baaUa[UI[aa¥UZ`[XZ`a[JZ`a[b¥QZ[_`VZ[
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+HWI-EAS443:3:57:235:1686#0/1
Y`a]]¥`¥^VWFZXRTX]^^Ya_a__a^^^W___SZ_
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+HWI-EAS443:3:58:1074:1502#0/1
[S]F)`]]SS^a¥SS]¥V_YZ[Y^ab¥^¥`_O_[]`^b
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+HWI-EAS443:3:58:1090:1911#0/1
abbaaa`^_V_aV]`¥__`S^[_VU_[Q[a_WTGN]^_N^
@HWI-EAS443:3:58:1106:379#0/1
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+HWI-EAS443:3:58:1106:379#0/1
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+HWI-EAS443:3:58:117:1632#0/1
a¥a`aaa]aa`aa`^a`Wq]aY^`_]Z__aa_a]]BB
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+HWI-EAS443:3:58:1189:1781#0/1
a`HIaYZLV¥b_aZLRLaV_V_^Z¥[_¥Q]__TQWQ_UV¥
@HWI-EAS443:3:58:1732:393#0/1
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+HWI-EAS443:3:58:1732:393#0/1
aaaab`aaa`baa`aa_aa_^_]`_^_a¥aZ`]]`aaa`]
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aaaa_Q`^a[`__Y_aa_aaa`a`_aaa^aa__^¥``¥^_
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@HWI-EAS443:3:59:109:939#0/1
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+HWI-EAS443:3:59:109:939#0/1
aa_a_aa`aa`_aaa_[][Z^^`X¥__U[U`ZYUSUU^ZT
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aaaaabaa_a_`aaaaa```_a````[b`^Z_^^UU[¥U
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+HWI-EAS443:3:5:1243:807#0/1
]_`b]bYW[`¥Z[RZZZ]¥ab^K^[Y`¥^Z`Z^W_¥ORBB
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+HWI-EAS443:3:5:1605:1596#0/1
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@HWI-EAS443:3:5:212:1125#0/1
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+HWI-EAS443:3:5:212:1125#0/1
a^a_aaaaa^aaaaaaaaa`a`aaa_]a`X````__¥[XW
@HWI-EAS443:3:5:59:265#0/1
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+HWI-EAS443:3:5:59:265#0/1
a``aaa_]_]aZU]Q^¥`_a`^`[_a__a^^¥`_¥¥`]BB
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+HWI-EAS443:3:60:1154:415#0/1
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@HWI-EAS443:3:60:1335:1037#0/1
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+HWI-EAS443:3:60:1335:1037#0/1
aa]abaaaa_]a¥__a^aa`_]^_aaZ``_a¥^]^^[[
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+HWI-EAS443:3:60:498:1667#0/1
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+HWI-EAS443:3:60:937:34#0/1
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@HWI-EAS443:3:61:1780:1814#0/1
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+HWI-EAS443:3:61:1780:1814#0/1
aWNU_¥]Xb_bS¥[IYa_a`_a^Ua][UPVUG^X]PP_BB
@HWI-EAS443:3:61:988:1058#0/1
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+HWI-EAS443:3:61:988:1058#0/1
_`a^abaa_a_`bbaabaaaT`Z]U^_X_a¥QX^Y[]WR
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+HWI-EAS443:3:62:325:1798#0/1
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@HWI-EAS443:3:62:643:1558#0/1
CAGCACTCTGCTGTTCCCTGTTGATATTCTTCCCTCATGGA
+HWI-EAS443:3:62:643:1558#0/1
a```aaaa¥Z]_Z]aa`¥`Z]]^[T_^V^^^[`¥^W[UYY
@HWI-EAS443:3:63:899:302#0/1
CAGCACTCTGCTGTTCCCTGTTGATATTCTTCCCTCATGGA
+HWI-EAS443:3:63:899:302#0/1
abbbbbbbbbbbbabbbb`bba]aaa]aa_`aaa`a```
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+HWI-EAS443:3:64:1195:476#0/1
aabbabababaa_b`X^ba`aa__[X_Uaa_bT_`_`_a
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+HWI-EAS443:3:64:1357:1624#0/1
a`a^aba¥`]^^[`TT`¥^VZ^[^^VFU^T_YFY¥V¥¥¥WW
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+HWI-EAS443:3:65:394:1586#0/1
aa`^abaabaaaaaaa_ba___aa`ab_Y`__^a`_¥a_¥
@HWI-EAS443:3:65:574:1870#0/1
AGCACTCTGCTGTTCCCTGTTGATATTCTTCCCTCATGGAC
+HWI-EAS443:3:65:574:1870#0/1
_0_aabba_b`aa[_T^QY_]Z^][`a`¥^`aZ]X¥Z[_¥
@HWI-EAS443:3:65:813:850#0/1
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+HWI-EAS443:3:65:813:850#0/1
aXaaa¥^a`Xa`_`a_Q¥¥^a`_]__¥a_aSN]¥_[Q`V
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+HWI-EAS443:3:65:872:378#0/1
a`_Z¥S]^W_a]aXX¥ZY`aaaW__aa`[NZTZLTPXT^
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+HWI-EAS443:3:65:90:1040#0/1
`]a_¥WUTU[a`a`b`a`a_aa_]UZ^`T^_b`¥Yaa]0
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+HWI-EAS443:3:65:992:1158#0/1
]`a`abbb[`baaab`abbb_abaa`abaYab^_a`aaa`
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+HWI-EAS443:3:66:1306:1090#0/1
a]SabaaZ`¥`_XaNXTF_HXY¥a^^aaV_[XTNX¥¥V__
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a^_a`bbb¥]Ya^X_^^a`^abbb]_`T`ab``^Z`a`
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`aa_abaaaa`_]`_]a`a_aaaaa`aa__`_`_`_¥`]_U`
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+HWI-EAS443:3:67:503:1915#0/1
Z¥_¥bbY]_a¥__aa¥¥babYbaab`b`bbb]bb]_`_bY
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+HWI-EAS443:3:69:1306:202#0/1
¥XZSZUZa`_UUYZaa`^`__U^_```¥Y^P]^Y[]LNQ[
@HWI-EAS443:3:69:1559:1723#0/1
TGCCTGAGTCCATGAGGGAAGAATATCAACAGGAACAGCA
+HWI-EAS443:3:69:1559:1723#0/1
TQ__`aWOX___]ba`T¥aa]]]T`a]_a`^X`TX`a_V
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+HWI-EAS443:3:69:456:1726#0/1
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+HWI-EAS443:3:6:117:1301#0/1
ab`a`bba_aaaab_a_b`baaaaaaaaa`aaaa`_aa_]`
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GACCATCGTCAACATCCACAGCACTCTGCTGTTCCCTGTTG
+HWI-EAS443:3:6:178:420#0/1
aaa¥aaaa][aa^]`¥a^`_a¥[Z`_[_U¥a¥¥ZW^`U¥Y

@HWI-EAS443:3:6:522:1032#0/1
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+HWI-EAS443:3:6:522:1032#0/1
a`_aaa`aaW`_a__¥_^^a`¥_]`_]`¥`_ZW_¥_B
@HWI-EAS443:3:6:563:214#0/1
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+HWI-EAS443:3:6:563:214#0/1
a`abaa_ba`aa`_a_a`a_a¥`¥_a`^`^`¥¥¥¥]T_W
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+HWI-EAS443:3:6:600:1270#0/1
aa`aaaa_a_aa`aaa`]aaa`^`_`Z`_`^`_W_Ua`UV¥
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+HWI-EAS443:3:70:363:2012#0/1
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+HWI-EAS443:3:71:1062:308#0/1
^_b`_`_XR__`aaT_X¥`_a`aaaa_aabaaZ`]^_KP^
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+HWI-EAS443:3:71:288:1330#0/1
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+HWI-EAS443:3:72:1039:81#0/1
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+HWI-EAS443:3:73:1086:1046#0/1
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aaaYVH_LX`a]WR[^WT[ZVV`^YRU_ZHX]¥VSXTS¥W
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+HWI-EAS443:3:74:1651:758#0/1
aa_a__b`_a`ba]b)`abbbaa`a¥]¥Mbaaaa_bb_VV
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CAGCACTCTGCTGTTCCCTGTTGATATTCTCCCTCATGGA
+HWI-EAS443:3:74:440:898#0/1
abbbbbbbbbbbbaaabab]baabab`^aaaaaaaa__a
@HWI-EAS443:3:74:798:1166#0/1
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+HWI-EAS443:3:74:798:1166#0/1
aaab^abXa`aaaabaa`]aaa_aaaaaa`aaa_a_a`_
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+HWI-EAS443:3:75:1281:1286#0/1
a`aaabaa`¥_a`aaabab_aba`a`a[a_¥a_aaa¥aa[
@HWI-EAS443:3:75:268:1671#0/1
GCCTGAGTCCATGAGGGAAGAATATCAACAGGAACAGCAG
+HWI-EAS443:3:75:268:1671#0/1
aab_abaUaabaaYZa`WbSV]b__^¥ab`_Q__`b``a`
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+HWI-EAS443:3:76:1308:2004#0/1
aaabb`abbaaba_aa`aaaabaa```a`aa`ba]_W`]
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+HWI-EAS443:3:76:281:1145#0/1
abbb`babaab`_aa`abaa```_a¥MZ]]_____X`_
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+HWI-EAS443:3:76:31:1900#0/1
aXSZ¥^`¥_UZ¥Y^[]W]^`KVZYW`Ya[W_XXW]BBBBB
@HWI-EAS443:3:76:441:1457#0/1
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+HWI-EAS443:3:76:441:1457#0/1
_aaa`abbba^_aaaabba`baaa``aaaa`U`aa_a`¥
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TCCTGTTGATATTCTCCCTCATGGACTCAGGCACTCCTT
+HWI-EAS443:3:76:607:642#0/1
aabaa¥WO]a`^¥Wba^PY^aaa[LY`_`XW`_`ZYP^YSV
@HWI-EAS443:3:76:862:725#0/1
CATCGTCAACATCCACAGCACTCTGCTGTTCCCTGTTGATA
+HWI-EAS443:3:76:862:725#0/1
V¥__VZ`[ZTbb^]V_a`^[aa`bb¥]b`aa_aa`a]`^`
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GCCTGAGTCCATGAGGGAAGAATATCAACAGGAACAGCAG
+HWI-EAS443:3:77:339:1402#0/1
abba[RXYbba^¥M¥a`Xa]^__`T`XZX`YNZa`_`[^¥
@HWI-EAS443:3:78:1606:592#0/1
GGAAGAATATCAACAGGAACAGCAGAGTGCTGTGGATGTT
+HWI-EAS443:3:78:1606:592#0/1
aba`baab^babaabbb_aaaa_abaaX_¥bb`ba`a`L^

@HWI-EAS443:3:78:706:1240#0/1
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+HWI-EAS443:3:78:706:1240#0/1
^_`¥¥`^`¥ba¥]_`_`^`aa]a`Z]``[PW`[`a`]¥a_
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GACCATCGTCAACATCCACAGCACTCTGCTGTTCTGTTG
+HWI-EAS443:3:79:1007:1260#0/1
aa_Z]X`^PXa_U^S`_`a¥``a[ZWURVUVWXP[S[VWX
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+HWI-EAS443:3:79:1634:1119#0/1
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@HWI-EAS443:3:7:1294:1478#0/1
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+HWI-EAS443:3:7:1294:1478#0/1
a^NXbab`babaaX^a^aaabbXVQ`b[`a[^]]N¥¥]S¥
@HWI-EAS443:3:7:78:1905#0/1
GTGCCTGAGTCCATGAGGGAAGAATATCAACAGGAACAGC
+HWI-EAS443:3:7:78:1905#0/1
`^aaaa`Z`Z`aaa]^`_`¥`a_a_`a`Z`a¥a_____^`__
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+HWI-EAS443:3:80:1267:1073#0/1
aPa`ZUSZG[`_¥OX[`[NV_UXVW_VGUa¥¥VVQZ¥US¥
@HWI-EAS443:3:80:201:1132#0/1
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+HWI-EAS443:3:80:201:1132#0/1
a[`aaa[`a`¥a¥¥UR[_`_`__a`]N[V]]O¥NP[MSV¥
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+HWI-EAS443:3:81:1509:1754#0/1
`a_b^babbababab]baab_¥Za_baZbaa`abPbb`a
@HWI-EAS443:3:81:263:1041#0/1
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+HWI-EAS443:3:81:263:1041#0/1
`ba^QZaUQTWa]_WZ`[aX]Xb¥[`ZZPO`[aZZRWX
@HWI-EAS443:3:82:1522:468#0/1
CAACATCCACAGCACTCTGCTGTTCTGTTGATATTCTTC
+HWI-EAS443:3:82:1522:468#0/1
a`babbbb`abbbbbaabababQabaabb`bbbbYab^
@HWI-EAS443:3:83:134:1066#0/1
CCTGAGTCCATGAGGGAAGAATATCAACAGGAACAGCAGA
+HWI-EAS443:3:83:134:1066#0/1
aaaa`^`aaaaaaaa`X`aa^[aaaa^^_V`_``_``_
@HWI-EAS443:3:83:716:1673#0/1
GTGCCTGAGTCCATGAGGGAAGAATATCAACAGGAACAGC
+HWI-EAS443:3:83:716:1673#0/1
^¥]`aaa```b`aaa^G^__aaaa[a^a`aaaa[``__a__
@HWI-EAS443:3:83:768:1007#0/1
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+HWI-EAS443:3:83:768:1007#0/1
^¥baabb`baa`b`bbb[abbbabb_a`aaaaa`aYa_a
@HWI-EAS443:3:83:983:1205#0/1
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+HWI-EAS443:3:83:983:1205#0/1
aabaaabaa`abaaa^aa`aaaa`[_aa`]S__a^_[^]
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GCCTGAGTCCATGAGGGAAGAATATCAACAGGAACAGCAG
+HWI-EAS443:3:84:685:2011#0/1
ab_a`Z^`b[Q[a_W_]W0¥V]T_bZa`^^X¥``QY`__
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+HWI-EAS443:3:84:802:1490#0/1
aaaaa`ba`a`_a`a`aa`a`Z`^`¥a^__aa`a`_¥
@HWI-EAS443:3:84:817:768#0/1
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+HWI-EAS443:3:84:817:768#0/1
aa`Q¥_b¥XV]¥^V]aa`aXZ^a`Z¥[¥aa`a_^[¥a`W_
@HWI-EAS443:3:84:946:1767#0/1
TGCCTGAGTCCATGAGGGAAGAATATCAACAGGAACAGCA
+HWI-EAS443:3:84:946:1767#0/1
__ab^bb^U]``a`^a_Z¥a_babb_aaab^aaaaa^`
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+HWI-EAS443:3:85:1419:944#0/1
a`abb[b````b__bb`__aaaa_b`_]aaa__Xa_Y` [
@HWI-EAS443:3:85:1699:988#0/1
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+HWI-EAS443:3:85:1699:988#0/1
`abab^X`a`_a_aY_V^aZEUHaa`[]_V¥a[a`]`__U
@HWI-EAS443:3:85:257:1612#0/1
CGTCAACATCCACAGCACTCTGCTGTTCCCTGTTGATATTC
+HWI-EAS443:3:85:257:1612#0/1
aa¥aa¥bbaaab`aab]a`a^a____Y_][] [a`] `a_Y
@HWI-EAS443:3:85:695:143#0/1
GTCAACATCCACAGCACTCTGCTGTTCCCTGTTGATATTCT
+HWI-EAS443:3:85:695:143#0/1
a`aa^_aa`_a]a]__^`^`_a_]^[^^]__]_]_W^
@HWI-EAS443:3:86:426:583#0/1
CATGAGGGAAGAATATCAACAGGAACAGCAGAGTGCTGTG
+HWI-EAS443:3:86:426:583#0/1
aaaaY_^]Va^¥` `^ZaX`ZT_aa^Z`X[_a^_a`Z^[_
@HWI-EAS443:3:87:1146:334#0/1
TCAACATCCACAGCACTCTGCTGTTCCCTGTTGATATTCTT
+HWI-EAS443:3:87:1146:334#0/1
abaaaab`Z_aab_a_baa`[aaaa__aaS`a^`U_dUa]
@HWI-EAS443:3:88:1664:551#0/1
ACCATCGTCAACATCCACAGCACTCTGCTGTTCCCTGTTGA
+HWI-EAS443:3:88:1664:551#0/1
aaabb_^_aba¥ba¥T__ba[`^aa_aX]¥U`W^aa`aa`

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+HWI-EAS443:3:88:409:520#0/1
a_`Z_¥_^abaaaa]aa[^aaaa`^¥` `__a`Z_` `a
@HWI-EAS443:3:88:437:695#0/1
CCTGAGTCCATGAGGGAAGAATATCAACAGGAACAGCAGA
+HWI-EAS443:3:88:437:695#0/1
abbbab_a_]ab`abbaZbaaaaabaa`a`aaa^aa__a_
@HWI-EAS443:3:88:919:1144#0/1
CGTCAACATCCACAGCACTCTGCTGTTCTGTTGATATTC
+HWI-EAS443:3:88:919:1144#0/1
[aaa]_a_b^KZb`b[_bbbXRS[b__a]baababaa[^S
@HWI-EAS443:3:89:1243:537#0/1
GCCTGAGTCCATGAGGGAAGAATATCAACAGGAACAGCAG
+HWI-EAS443:3:89:1243:537#0/1
][MV]a`T_WZ]b]a_a¥ba`Zb_a`a_]ab`^`_ab`aa
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+HWI-EAS443:3:89:1624:895#0/1
aa`[_`aaaa`_Zaa_bba_aaa`a` `Za`]a`a]_U__U_
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ATCGTCAACATCCACAGCACTCTGCTGTTCTGTTGATAT
+HWI-EAS443:3:89:811:1293#0/1
]ab[_`¥Uaaaa_a` `]Ta_`[_`_`_`_`aa`¥aY`[_][^
@HWI-EAS443:3:89:956:1258#0/1
TGCTGTTCTGTTGATATTCTCCCTCATGGACTCAGGCA
+HWI-EAS443:3:89:956:1258#0/1
a`baa` `` `aab_bbb`aaa_aaa_aaa`aa`_` `a`^`a
@HWI-EAS443:3:8:607:1129#0/1
CCTGAGTCCATGAGGGAAGAATATCAACAGGAACAGCAGA
+HWI-EAS443:3:8:607:1129#0/1
abb]abaaa`ab`babaaa_abaa]_]_aa` `aWaaaa_
@HWI-EAS443:3:8:737:1352#0/1
GCCTGAGTCCATGAGGGAAGAATATCAACAGGAACAGCAG
+HWI-EAS443:3:8:737:1352#0/1
aaaV^^XJV[[_¥OX_UXR^¥¥UR^ZP¥]UX`V^VEP^MBB
@HWI-EAS443:3:8:914:147#0/1
TGAGGGAAGAATATCAACAGGAACAGCAGAGTGCTGTGGA
+HWI-EAS443:3:8:914:147#0/1
]a¥_a`T]aa_bWVU__L[_a_OMV[FG`¥_UZT_¥BBBB
@HWI-EAS443:3:90:1270:888#0/1
GCCTGAGTCCATGAGGGAAGAATATCAACAGGAACAGCAG
+HWI-EAS443:3:90:1270:888#0/1
ab^Za[aJ¥__baSaaaa` `` `]`]]]__ab` ` _Q^`^Ha
@HWI-EAS443:3:90:159:170#0/1
GCCTGAGTCCATGAGGGAAGAATATCAACAGGAACAGCAG
+HWI-EAS443:3:90:159:170#0/1
a_`_`[_`U^¥Z[_`¥`_`V^¥^YZV^]¥WVZVVSTWW^VV¥
@HWI-EAS443:3:90:234:1748#0/1
TCCTGTTGATATTCTCCCTCATGGACTCAGGCACTCCTT

+HWI-EAS443:3:90:234:1748#0/1
ab^_a_abb`ab`¥]aaaaaab`aZ___aa_]aa``a`__
@HWI-EAS443:3:90:716:590#0/1
GTGCCTGAGTCCATGAGGGAAGAATATCAACAGGAACAGC
+HWI-EAS443:3:90:716:590#0/1
aUWMM[XV_`Z[R¥`U^b¥YU`¥YZ`_`^`^YV[_VSU`^
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+HWI-EAS443:3:91:217:1797#0/1
W¥R_Y]bbba^^)`aabb]`^]abbbbaa]`WaaaaZU_
@HWI-EAS443:3:91:22:816#0/1
TGAGGGAAGAATATCAACAGGAACAGCAGAGTGCTGTGGA
+HWI-EAS443:3:91:22:816#0/1
aa_aaaabaaa`a¥aa`aa_`a`^`^`Y`]`a]]]Y
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CTGAGTCCATGAGGGAAGAATATCAACAGGAACAGCAGAG
+HWI-EAS443:3:91:29:987#0/1
N^WPa_W_a`a``]Wabbb]Sabbb__`aIaa]aa]ba`
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GACCATCGTCAACATCCACAGCACTCTGCTGTTCCCTGTTG
+HWI-EAS443:3:92:1749:1121#0/1
¥Va`b`^`aa¥`[`aW`aa_b`a]b_a`]`a`_`¥[_0¥M
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+HWI-EAS443:3:93:1239:542#0/1
^_aabb``^¥YXaa`_baaZ^a`¥a``]a]_¥a_N_a
@HWI-EAS443:3:93:326:1270#0/1
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+HWI-EAS443:3:93:326:1270#0/1
aa`a`_`_`^_a___``_]X`_`_U`¥__W¥_`^¥W_W¥BB
@HWI-EAS443:3:93:342:1673#0/1
GTTGATATTCTCCCTCATGGACTCAGGCACTCCTTCCGT
+HWI-EAS443:3:93:342:1673#0/1
VXbaababbaabbb`bbbba`bbaabaabbb`baaa`aaa
@HWI-EAS443:3:93:465:225#0/1
GTTGATATTCTCCCTCATGGACTCAGGCACTCCTTCCGT
+HWI-EAS443:3:93:465:225#0/1
a_aa_a]`aX_a_Y[^[____^[^¥__WZ^¥¥XWWWWS¥B
@HWI-EAS443:3:94:1267:300#0/1
GGAGTGCCTGAGTCCATGAGGGAAGAATATCAACAGGAAC
+HWI-EAS443:3:94:1267:300#0/1
a_aa^b^`bbba`¥a`baaaaa`a``aaa`^aU`_a]_S
@HWI-EAS443:3:94:278:484#0/1
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+HWI-EAS443:3:94:278:484#0/1
aabbaaaaVaaa_^Wbaa`abaaa`^aZ`]aaTZ`Z_a][
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+HWI-EAS443:3:94:39:333#0/1
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+HWI-EAS443:3:94:845:136#0/1
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@HWI-EAS443:3:95:1408:1398#0/1
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+HWI-EAS443:3:95:1408:1398#0/1
a_^_a`ab_aab[`¥^a^aa_`W`___UY_aR`W`Y`V
@HWI-EAS443:3:96:583:1613#0/1
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+HWI-EAS443:3:96:583:1613#0/1
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+HWI-EAS443:3:97:1116:887#0/1
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@HWI-EAS443:3:98:52:1396#0/1
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+HWI-EAS443:3:98:52:1396#0/1
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@HWI-EAS443:3:98:777:693#0/1
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+HWI-EAS443:3:98:777:693#0/1
a^ZXW¥_Y^OUFZ]]VXN¥^`T`__`a[_X_`ZK]Q_a_
@HWI-EAS443:3:99:518:356#0/1
GTTGATATTCTTCCCTCATGGACTCAGGCACTCCTCCGT
+HWI-EAS443:3:99:518:356#0/1
a[^`^`XX^WU¥]XV_X[UZ^[ZZ[¥¥PSWV¥UWTTXNRV
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+HWI-EAS443:3:99:527:16#0/1
abab_b`[_bb_Vbb]a]¥_a`b[¥aa_aPab_[aaaQaH
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+HWI-EAS443:3:9:1030:440#0/1
abbaZb`ab]aa_abQb_M]]_a^^a_aaa_____RR_^_
@HWI-EAS443:3:9:250:534#0/1
GTTCTGTTGATATTCTTCCCTCATGGACTCAGGCACTCC
+HWI-EAS443:3:9:250:534#0/1
aaaa]a`_aaa_]_¥Ya¥Ya^_]`¥_]`^¥T]_SUU`WY¥V
@HWI-EAS443:3:9:75:638#0/1
GCCTGAGTCCATGAGGGAAGAATATCAACAGGAACAGCAG
+HWI-EAS443:3:9:75:638#0/1
abaa`]]`a[]a_aa^^aa_a`^^aa`^_¥Z^`__`¥a_
@HWI-EAS443:3:9:786:509#0/1
AGTGCCTGAGTCCATGAGGGAAGAATATCAACAGGAACAG
+HWI-EAS443:3:9:786:509#0/1
^R¥¥U]¥babJa]P¥aV`][P_aWVaZ]QXXQaVIUWQZ^
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+HWI-EAS443:3:22:880:83#0/1
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GAACAGATGGCTGGATCGAGTGAACAGGCAGCATAGGACA
+HWI-EAS443:3:5:592:546#0/1
aaYKZ`X`Q` `[]_KQSZ`XPXV¥KT¥^KPPXTNT]BBBB
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a`X_a[_[a_]Z¥`_ZZ`^_ZaZ¥]PTWNS^¥BBBBBBBB
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+HWI-EAS443:3:28:156:238#0/1
aa_`b`Ka^[^UaaZYaa]¥a`Ta`]WYBBBBBBBBBBBB
@HWI-EAS443:3:82:907:1035#0/1
GCTGGATCGAGTGAACAGGCAGCAGAGGCCACGGAGGGTG
+HWI-EAS443:3:82:907:1035#0/1
V]]VVP¥]¥]XZTPTX__V¥X^]I[F[¥VXMFZFZGPRNQ
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+HWI-EAS443:3:21:118:700#0/1
aaaaa`^aa`W`_[YZ^a_`_aZ]PY¥^_XBBBBBBBB
@HWI-EAS443:3:31:947:131#0/1
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+HWI-EAS443:3:31:947:131#0/1
a`aaaV]¥_aXVa^[TX¥XTT]FKXN[`BBBBBBBBBBBB
@HWI-EAS443:3:65:105:700#0/1
GCTGGATCGAGTGAACAGGCAGCAGAGGCCATGGGGGGTG
+HWI-EAS443:3:65:105:700#0/1
aaab]aaba¥aaa^¥` `a`a`¥^]] [U^XVBBBBBBBB
@HWI-EAS443:3:73:1461:1266#0/1
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+HWI-EAS443:3:73:1461:1266#0/1
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@HWI-EAS443:3:45:1398:1086#0/1
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+HWI-EAS443:3:45:1398:1086#0/1
TF]]a_aa`^^aXT`KV^a^aSbI]WSLa`aab`YP¥GQM
@HWI-EAS443:3:84:211:761#0/1
GGCTGGATCGAGTGAACAGGCAGCAGAGGCCATGGGGGGT
+HWI-EAS443:3:84:211:761#0/1
aa_]^^¥[^`^`¥S¥W[XRO]` `]¥]QET]V[BBBBBBBB
@HWI-EAS443:3:33:1517:393#0/1
GTTCTAACCGAGGTCGAAACGTACGTTCTTTCAATCATCC
+HWI-EAS443:3:33:1517:393#0/1
I¥` `Q` `aabba^]V_`^aTa`¥RQX`a_SGZ` `]HZG
@HWI-EAS443:3:89:1269:170#0/1
AGGGGCCTGACGGGATGATAGAAAGAACGTAAGTTTCGAC
+HWI-EAS443:3:89:1269:170#0/1
]` `bbb__^]VX_`¥b` `aYPX[¥]aYM¥REJ_QOWHNUN

@HWI-EAS443:3:88:515:455#0/1
CGAGTGAACAGGCAGCAGAGGCCATGGAGGTTGCCAATCA
+HWI-EAS443:3:88:515:455#0/1
`bbaabab`baaW_ZP_`¥a_¥P^a]T^aIZ`HDU`YY¥
@HWI-EAS443:3:89:729:664#0/1
CTGGATCGAGTGAACAGGCAGCAGAGGCCATGGAGGGTGG
+HWI-EAS443:3:89:729:664#0/1
abb`a_¥W`]a^[]]b¥Z`XaZJU`a_^_aW^¥`TDQWG
@HWI-EAS443:3:95:1306:219#0/1
GATCGAGTGAACAGGCAGCAGAGGCCATGGAGGTTGGTAA
+HWI-EAS443:3:95:1306:219#0/1
Q__ab__¥a`K`¥`]`WN_Vaa^^SZ¥0[P]SZaMM¥BB
@HWI-EAS443:3:14:1128:130#0/1
CAACCTCCATGGCCTCTGCTGCCTATTCACCTCGATCCAGC
+HWI-EAS443:3:14:1128:130#0/1
`Z`aaa_`^`aa`aa^aYUZSUVY^`RXTTLV¥RNUPBB
@HWI-EAS443:3:14:1183:502#0/1
ATTTAAAGATGAGTCTTCTAACCAGGTTCGAAAAGTACGT
+HWI-EAS443:3:14:1183:502#0/1
`ba^ZYZaV^aa]ZP_Y^__a__[a`U]_OZ^FVX^Z]S
@HWI-EAS443:3:28:481:1494#0/1
GAACAGATGGCTGGATCGAGTGAAGAGGCAGCAGAGGCCA
+HWI-EAS443:3:28:481:1494#0/1
_[]`baX[b]bbaU¥W`¥`bXaa[F]P^a`Wa]]X]aa`
@HWI-EAS443:3:30:982:1389#0/1
GCTGGATCGAGTGAACAGGCAGCAGAGGCCACGGAGGTTG
+HWI-EAS443:3:30:982:1389#0/1
a__`^[¥]Y_NVP]^ZTRQ_BBBBBBBBBBBBBBBBBBBB
@HWI-EAS443:3:36:1234:1933#0/1
GCCATTTGTCTGGGAGACCGATGCTGTGAATCAGCAATCT
+HWI-EAS443:3:36:1234:1933#0/1
`V`_`¥^PTX_M_[T]a`Y[N^^RZTT]_WU_RUVXYWZ
@HWI-EAS443:3:5:1727:1573#0/1
ATTTAAAGATGAGTCTTCTAACCAGGTTCGAAAGGTACGT
+HWI-EAS443:3:5:1727:1573#0/1
]X^abbba_abKaPSab¥bbbRRbUK`G_`a^_GaUSBBB
@HWI-EAS443:3:66:1747:1052#0/1
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+HWI-EAS443:3:66:1747:1052#0/1
a_WRW`aSYW]¥NRTRW_]__]`[¥V¥a_XFSVQSVTZT
@HWI-EAS443:3:67:521:1331#0/1
CTCGGCTTTGCGGGGCCTGACGGGATGATAGAAAGAACG
+HWI-EAS443:3:67:521:1331#0/1
a^a^aa¥W[XTY^XYZ¥T^XS^_[¥STGPMORNSYP[SQP
@HWI-EAS443:3:76:260:2032#0/1
ATTTAAAAATGAGTCTTCTAACCAGGTTCGAAACGTACGT
+HWI-EAS443:3:76:260:2032#0/1
Y_`aa`_Za]P_`^_aaa_S`ab]`¥]^_TTWa_]Q]Q_U
@HWI-EAS443:3:82:1570:1940#0/1
GTACGTTCTTTCTATCATCCAGTCAGGCCCCCTCAAAGCC

+HWI-EAS443:3:82:1570:1940#0/1
a¥^Xb¥[``]]S`]¥R^]^MEYWP^`]]WWY¥_T¥^¥^UG
@HWI-EAS443:3:11:179:1361#0/1
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+HWI-EAS443:3:11:179:1361#0/1
a`aaZaaabab`^aaaa`aa_`_RaZaRU^ZNP`BBBBBB
@HWI-EAS443:3:28:978:1979#0/1
GCTGGATCGAGTGAACAGGCAGCAGAGGCCATGGAGGGTG
+HWI-EAS443:3:28:978:1979#0/1
abb[``_abbbb]a_ba``aaaaaZ`¥]¥X`XQ^VU[EZR
@HWI-EAS443:3:5:831:786#0/1
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+HWI-EAS443:3:5:831:786#0/1
aababa_`^aa[a]a_````_`a0^]P¥]UYYYT]BBBBBB
@HWI-EAS443:3:63:491:1085#0/1
GTTCTTTCTATCATCCCGTCAGGCCCTCAAAGCCGCGA
+HWI-EAS443:3:63:491:1085#0/1
^^^`][Z`aX]¥OT``P_WOTPL]``_XYBBBBBBBBBBBB
@HWI-EAS443:3:76:1092:1192#0/1
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+HWI-EAS443:3:76:1092:1192#0/1
^UR_USMY_]¥XUVVOXZ]BBBBBBBBBBBBBBBBBBBB
@HWI-EAS443:3:77:590:784#0/1
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+HWI-EAS443:3:77:590:784#0/1
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@HWI-EAS443:3:80:713:1018#0/1
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+HWI-EAS443:3:80:713:1018#0/1
a``a_]Zabba^`aa]`a^`YXZYXZ]Z]]BBBBBBBB
@HWI-EAS443:3:82:1242:527#0/1
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+HWI-EAS443:3:82:1242:527#0/1
aa_`^`aaabab^aaa`aa`^_Y_a^a_PEVZBBBBBBBB
@HWI-EAS443:3:83:787:1937#0/1
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+HWI-EAS443:3:83:787:1937#0/1
`^V]WXU]OR_Q`]`Z¥TZ_Z]`V]Y]YLW]BBBBBBBB
@HWI-EAS443:3:89:460:873#0/1
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+HWI-EAS443:3:89:460:873#0/1
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@HWI-EAS443:3:92:212:1839#0/1
GCTGGATCGAGTGAACAGGCAGCAGAGGCCATGGAGGGTG
+HWI-EAS443:3:92:212:1839#0/1
abbbaba^bbbXababaa``]V]_`_P`¥a^UX[¥XBBBB
@HWI-EAS443:3:96:1214:1377#0/1
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+HWI-EAS443:3:96:1214:1377#0/1
a`aRaXaRa`]V¥[¥Y¥a]PX^KO_U^^BBBBBBBBBBBB

@HWI-EAS443:3:23:1108:1385#0/1
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+HWI-EAS443:3:23:1108:1385#0/1
aa]abbbZabbbbZa^bb]aWDM_bbaZa`_aaRa]aa_
@HWI-EAS443:3:45:1034:1992#0/1
GGAACAGATGGCTGGATCGAGTGAANAGGCAGCAGAGGCC
+HWI-EAS443:3:45:1034:1992#0/1
Tb]aZ`b`aT`aaa^T`a[¥U¥¥TUDRaa^a_]__Ma`M_
@HWI-EAS443:3:5:1534:1003#0/1
GCCATTTGTCTGTGAGACCGATGCTGTGANTCAGCAATCT
+HWI-EAS443:3:5:1534:1003#0/1
a_babbaaaaaZWa`_____baaaP^aUb^D[¥Qa_`_¥U_
@HWI-EAS443:3:65:209:1042#0/1
AACCGAGGTCNAAACGTACGTTCTTTCTATCATCCCGTCA
+HWI-EAS443:3:65:209:1042#0/1
a`a^a`a]¥DZ^aabZa_aS]__]`__a_U_]_¥[_W^¥
@HWI-EAS443:3:33:1066:547#0/1
GAACAGATGGCTGGATCGAGTGAACAGGCAGCAGAGGCCG
+HWI-EAS443:3:33:1066:547#0/1
`]PW[b^W^`XZVRMXQ¥[VFVBBBBBBBBBBBBBBBBBB
@HWI-EAS443:3:74:403:380#0/1
GGCTGGATCGAGTGAACAGGCAGCAGAGGCCATGGAGGGG
+HWI-EAS443:3:74:403:380#0/1
aaaaab]U_aaaVaa]`````_[_`¥^QTWS^BBBBBBBBBB
@HWI-EAS443:3:79:749:95#0/1
GATGGCTGGATCGAGTGAACAGGCAGCAGAGGCCATGGGG
+HWI-EAS443:3:79:749:95#0/1
aaaaaaaba]_¥`_aSa_[S^[a¥^`PRSV^BBBBBBBBBB
@HWI-EAS443:3:82:719:999#0/1
ANTTAAAGATGAGTCTTCTAACCAGGTCGAAACGTACGT
+HWI-EAS443:3:82:719:999#0/1
[D^aaaabbaaa`_ab`baaaaaaaaa_`a`¥VV]ZS¥^a]
@HWI-EAS443:3:36:201:456#0/1
TTCTCGGCTTTGAGGGGGCCTGACGGGATGATAGAAAGAA
+HWI-EAS443:3:36:201:456#0/1
aaaaaaabaaa]S_Vaaa___a^T¥^_N__Ua[_`¥JUYZ
@HWI-EAS443:3:47:400:694#0/1
GTCTCGGCTTTGAGGGGGCCTGACGGGATGATAGAAAGAA
+HWI-EAS443:3:47:400:694#0/1
a^R_ab`V]^aPNV`^`^`[M[QNQQY^UU^UVYYBBBBBB
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AGCCTCTGCTGCCTGTTCACTCGATCCAGCCATCTGTTCC
+HWI-EAS443:3:71:1360:1701#0/1
aaaaab`Z_aa``]UZa^`M_Z_XU^a]ZVXZ_V_¥¥UUQ
@HWI-EAS443:3:75:222:946#0/1
CCTGCTGCCTGTTCACTCGATCCAGCCATCTGTTCCATAG
+HWI-EAS443:3:75:222:946#0/1
]_]bba`ba]Z_^^aa`¥]`a_^^b`]0]_UIU]`[Q¥T
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+HWI-EAS443:3:80:942:1211#0/1
aaaa`b_¥_^^^aa_ZY_aaa]`^Y¥¥`a`_]_`R]]XWW
@HWI-EAS443:3:89:401:551#0/1
TGGCTGGATCGAGTGAACAGGCAGCAGAGGCCATGGAGGG
+HWI-EAS443:3:89:401:551#0/1
abbbbb`aaa^b`^a¥^`_a_]`^0^Y¥_¥`_U_YMZaV
@HWI-EAS443:3:100:127:457#0/1
GCTGGATCGAGTGAACAGGCAGCAGAGGCCATGGAGGTTG
+HWI-EAS443:3:100:127:457#0/1
aababaa[babUa`aSaaa_a`R¥^¥Z_US¥QX^BBBBBB
@HWI-EAS443:3:100:193:58#0/1
GTCTTCTAACCGAGGTCAAACGTACGTTCTTTCTATCAT
+HWI-EAS443:3:100:193:58#0/1
aU¥`_^`_`¥`Ya`UU[RVTG[UUV[RRY]YYTWSBBBB
@HWI-EAS443:3:13:1535:1384#0/1
GCTGGATCGAGTGAACAGGCAGCAGAGGCCATGGAGGTTG
+HWI-EAS443:3:13:1535:1384#0/1
a_aa`_`^a`aW`^a^U]aU^`SPPQXU¥]BBBBBBBBBB
@HWI-EAS443:3:13:298:423#0/1
GGCCTCTGCTGCCTGTTCACTCGATCCAGCCATCTGTTCC
+HWI-EAS443:3:13:298:423#0/1
K`aba_babZ¥¥bbaa]`^`baaba`bb]aaaaaab]Y]`
@HWI-EAS443:3:14:1508:688#0/1
CGTTCTTTCTATCATCCCGTCAGGCCCCCTCAAAGCCGAG
+HWI-EAS443:3:14:1508:688#0/1
a]V^`]`a^`a]¥]WNK¥^T^_]UZSXPTYQUYV¥QKZSY
@HWI-EAS443:3:14:629:254#0/1
CTTCTAACCGAGGTCAAACGTACGTTCTTTCTATCATCC
+HWI-EAS443:3:14:629:254#0/1
abbbbbbbbaaaWaaaa`ab[a`a_a^`aaT_a__`_ZZ
@HWI-EAS443:3:15:33:856#0/1
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+HWI-EAS443:3:15:33:856#0/1
ababbbbbbbbaabbaaba]a`Waaaa`aa]a`¥^Y^a
@HWI-EAS443:3:15:730:1073#0/1
GATGGCTGGATCGAGTGAACAGGCAGCAGAGGCCATGGAG
+HWI-EAS443:3:15:730:1073#0/1
`WaT_ba^ZT^ZZ`¥Y`_a_BBBBBBBBBBBBBBBBBBBB
@HWI-EAS443:3:16:341:707#0/1
TAAAGATGAGTCTTCTAACCGAGGTCAAACGTACGTTCT
+HWI-EAS443:3:16:341:707#0/1
^a^Ua¥`````]`Y`aZ[^aa_[aaG[][_Y`]FZZaWSYW
@HWI-EAS443:3:17:1016:548#0/1
GCCATTTGTCTGTGAGACCGATGCTGTGAATCAGCAATCT
+HWI-EAS443:3:17:1016:548#0/1
aa]`a`a_LX`a]aYa_U]a[P[``]V``_]Y[_U`]YW^
@HWI-EAS443:3:18:1060:819#0/1
GTCTTCTAACCGAGGTCAAACGTACGTTCTTTCTATCAT
+HWI-EAS443:3:18:1060:819#0/1
a¥baba`a]_YY`W````_]`W`_a^___a`[^_]¥W¥

@HWI-EAS443:3:18:1597:1221#0/1
GCTGGATCGAGTGAACAGGCAGCAGAGGCCATGGAGGTTG
+HWI-EAS443:3:18:1597:1221#0/1
abbbbababbb_aaaZbba`ab^]a[aV]^_a`[_`]BB
@HWI-EAS443:3:1:1055:950#0/1
CGTTCTTTCTATCATCCCGTCAGGCCCCCTCAAAGCCGAG
+HWI-EAS443:3:1:1055:950#0/1
T]TT`ZX¥`^[aa^¥ZJ]^a` `a[TVQR_a^V_aaQXaaB
@HWI-EAS443:3:20:506:2031#0/1
GGTAGATATTTAAAGATGAGTCTTCTAACCGAGGTCGAAA
+HWI-EAS443:3:20:506:2031#0/1
]a^abb0^ab^`]S]^`^a_`Qbaa^Maa`aa`^MKNS` `a
@HWI-EAS443:3:21:1357:1509#0/1
GTCAAACGTACGTTCTTTCTATCATCCCGTCAGGCCCC
+HWI-EAS443:3:21:1357:1509#0/1
aab^_bbab`babZa^abaXaaa¥aaV¥][WTaa_Z¥¥W¥
@HWI-EAS443:3:21:808:1293#0/1
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+HWI-EAS443:3:21:808:1293#0/1
^USPZTa¥^`^YJ]RYa]XTG¥^L`VH`OZG¥^XBBBBBB
@HWI-EAS443:3:21:973:555#0/1
CTAACCGAGGTCGAAACGTACGTTCTTTCTATCATCCCGT
+HWI-EAS443:3:21:973:555#0/1
`b__`_^W¥`H_W]aZVWY`UZRYR_¥_H¥__]BBBBBBB
@HWI-EAS443:3:22:1206:1337#0/1
CCGAGGTCGAAACGTACGTTCTTTCTATCATCCCGTCAGG
+HWI-EAS443:3:22:1206:1337#0/1
a`_W_^P¥aaaa`Y]]`_Y`[a`Z¥¥^_S]`WJT]Q^[YO
@HWI-EAS443:3:22:579:1838#0/1
GTTCTTTCTATCATCCCGTCAGGCCCCCTCAAAGCCGAGA
+HWI-EAS443:3:22:579:1838#0/1
aZaa]S¥aZa`a` `a_aXLX_]WZ_^SW¥¥¥¥^SYMWVTJ
@HWI-EAS443:3:23:631:1535#0/1
GATATTTAAAGATGAGTCTTCTAACCGAGGTCGAAACGTA
+HWI-EAS443:3:23:631:1535#0/1
`b]bbbabba`aaaabaaa`aaaa¥`__`[KNY[_¥aaUa
@HWI-EAS443:3:24:478:1370#0/1
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+HWI-EAS443:3:24:478:1370#0/1
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@HWI-EAS443:3:25:584:151#0/1
AACGTACGTTCTTTCTATCATCCCGTCAGGCCCCCTCAA
+HWI-EAS443:3:25:584:151#0/1
aa_]a_aSa`aaa_`_`[_`X[Z¥]W¥W^VRMUJWVT_VUJ
@HWI-EAS443:3:26:1707:271#0/1
AACCGAGGTCGAAACGTACGTTCTTTCTATCATCCCGTCA
+HWI-EAS443:3:26:1707:271#0/1
aba_aa`a¥a_`_`_ba`__^`VaaWa`_U` `VSV]XWX
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GGCCTCTGCTGCCTGTTCACTCGATCCAGCCATCTGTCC

+HWI-EAS443:3:27:1080:805#0/1
R]_HO`X_]SZX_ZbRV`b]T¥b¥QOX_WTZ]YRRaa^XH
@HWI-EAS443:3:28:163:1127#0/1
CTCGGCTTTGAGGGGGCCTGACGGGATGATAGAAAGAACG
+HWI-EAS443:3:28:163:1127#0/1
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@HWI-EAS443:3:28:845:721#0/1
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+HWI-EAS443:3:28:845:721#0/1
abb[QX]abb]TZ¥ba`S]a]a][YXa^W]MZ_]XY[P
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GAACAGATGGCTGGATCGAGTGAACAGGCAGCAGAGGCCA
+HWI-EAS443:3:29:1005:1275#0/1
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@HWI-EAS443:3:29:781:403#0/1
GGCTGGATCGAGTGAACAGGCAGCAGAGGCCATGGAGGTT
+HWI-EAS443:3:29:781:403#0/1
^b`X¥a_¥abba`aa]V^Xb]a¥F_`[a_M¥]`SSPOBBB
@HWI-EAS443:3:2:630:949#0/1
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+HWI-EAS443:3:2:630:949#0/1
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@HWI-EAS443:3:31:146:52#0/1
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+HWI-EAS443:3:31:146:52#0/1
^abb``_`^Xa_aa`aaa_WW``YWLOWDV_PX`aXZ_Z_
@HWI-EAS443:3:31:1735:884#0/1
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+HWI-EAS443:3:31:1735:884#0/1
``ZYW`aaa`^]SZaV]^WaaT____]^__aSY_`YM^ZPU
@HWI-EAS443:3:32:647:735#0/1
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+HWI-EAS443:3:32:647:735#0/1
abba_`abaaaa`_`a`_¥a_aaa`aa__aa``[_^X^`
@HWI-EAS443:3:32:738:69#0/1
GCCATTTGTCTGTGAGACCGATGCTGTGAATCAGCAATCT
+HWI-EAS443:3:32:738:69#0/1
ab`aaaaa^Xaa¥a`a`a`_`_][¥`^¥¥S^XY¥VV`^
@HWI-EAS443:3:33:15:760#0/1
CAGATGGCTGGATCGAGTGAACAGGCAGCAGAGGCCATGG
+HWI-EAS443:3:33:15:760#0/1
aa]I¥a```^`a`]T[ZR¥`T`T`ZU[[BBBBBBBBBBBB
@HWI-EAS443:3:33:274:983#0/1
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+HWI-EAS443:3:33:274:983#0/1
aba_Za`baba[`aba`_aaa`a¥V][_^^^VQ¥U]ZBBB
@HWI-EAS443:3:34:1249:1036#0/1
ACGGGATGATAGAAAGAACGTACGTTTCGACCTCGGTTAG
+HWI-EAS443:3:34:1249:1036#0/1
`ba`][¥]^`Y¥`UY`SP¥H`aWSUa]BBBBBBBBBBBB

@HWI-EAS443:3:34:130:1936#0/1
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+HWI-EAS443:3:34:130:1936#0/1
`bb`^`[_Sa_XaaaKTZa`WW__¥¥V^^]WW¥_¥_VUWZ
@HWI-EAS443:3:35:385:1583#0/1
GCTGGATCGAGTGAACAGGCAGCAGAGGCCATGGAGGTTG
+HWI-EAS443:3:35:385:1583#0/1
^^`^`_`XXT]¥^_T¥_Z^Z[TOKNZa¥BBBBBBBBBB
@HWI-EAS443:3:35:885:653#0/1
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+HWI-EAS443:3:35:885:653#0/1
Ubb`bba`[_aaaabaa`aa`S`a_aa[a_`^baa`aaaR_
@HWI-EAS443:3:36:104:851#0/1
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+HWI-EAS443:3:36:104:851#0/1
aaaaabbaa`aaaZU`aaaaa_UQ¥RZaaPZ]a¥_`]Y¥`
@HWI-EAS443:3:36:572:1058#0/1
GCTGGATCGAGTGAACAGGCAGCAGAGGCCATGGAGGTTG
+HWI-EAS443:3:36:572:1058#0/1
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@HWI-EAS443:3:37:1538:823#0/1
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+HWI-EAS443:3:37:1538:823#0/1
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@HWI-EAS443:3:37:691:327#0/1
TAACCGAGGTCGAAACGTACGTTCTTTCTATCATCCCGTC
+HWI-EAS443:3:37:691:327#0/1
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@HWI-EAS443:3:38:229:966#0/1
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@HWI-EAS443:3:39:1337:859#0/1
CTCGGCTTTGAGGGGCTGACGGGATGATAGAAAGAACG
+HWI-EAS443:3:39:1337:859#0/1
WZ^]VX]ZOO``_VZYNLDER^RXHN][]UBBBBBBBBB
@HWI-EAS443:3:39:827:1402#0/1
CTTCTAACCGAGGTCGAAACGTACGTTCTTTCTATCATCC
+HWI-EAS443:3:39:827:1402#0/1
aba`W¥_bba^aa]baW`_`a¥`_aZ^a`_XN`_`¥_[YQ
@HWI-EAS443:3:39:838:739#0/1
GGCCTCTGCTGCCTGTTCACTCGATCCAGCCATCTGTTCC
+HWI-EAS443:3:39:838:739#0/1
aaabbbaba__baab`aa`_aaaa^a]]a^a^`aaa¥`ZY
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AAACGTACGTTCTTTCTATCATCCCGTCAGGCCCTCAA
+HWI-EAS443:3:40:1625:390#0/1
a^^abaT^^aaPaZaY]_aVa]]S]aT_V_SSTa_S^SRS
@HWI-EAS443:3:40:659:1680#0/1
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+HWI-EAS443:3:40:659:1680#0/1
aNQZY0XX^_YXTLWD[YLRX^[MPY¥HUUV^U^W[LX_S
@HWI-EAS443:3:42:1369:412#0/1
TATGGAACAGATGGCTGGATCGAGTGAACAGGCAGCAGAG
+HWI-EAS443:3:42:1369:412#0/1
aabbbabaaaa`aa`¥`a`a`aaa_aaa`a`a_aa``a^_
@HWI-EAS443:3:42:571:1187#0/1
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+HWI-EAS443:3:42:571:1187#0/1
aa```aa_Y`aX]```^`a`_]aa`^X`^Z¥^ZQX_^W^
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+HWI-EAS443:3:43:121:1448#0/1
`¥¥W_^_OWa`RTN¥[X]X^`^WXYWX¥ZQTY^VOX[]Q
@HWI-EAS443:3:44:1125:1317#0/1
GTTCTTTCTATCATCCCGTCAGGCCCTCAAAGCCGAGA
+HWI-EAS443:3:44:1125:1317#0/1
aZa`^`a`X`aaaa`^Z]a]`^`_^¥W¥^S¥¥¥¥S¥`¥^W
@HWI-EAS443:3:44:1181:506#0/1
TAGATATTTAAAGATGAGTCTTCTAACCGAGGTCGAAACG
+HWI-EAS443:3:44:1181:506#0/1
a`aa[]Va^a_bMUWWY[HYaXRZWPRRVUMHTSKOVMRZ
@HWI-EAS443:3:44:252:432#0/1
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+HWI-EAS443:3:44:252:432#0/1
`]S¥a[`QX^`^aa`_]`^`_`¥`[N[^]]RS_ZNN¥KN
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+HWI-EAS443:3:44:914:1161#0/1
a_a`a`a`a`a`a`_¥a_a[`Z`_`^SZZ`¥¥¥_V_BBBB
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CAACCTCCATGGCCTCTGCTGCCTGTTCACTCGATCCAGC
+HWI-EAS443:3:44:965:1298#0/1
a`b[aaa`a`aa^¥aYYa``]^Y`a]_¥_¥^[a^UY^^XQ
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CGAGGTCGAAACGTACGTTCTTTCTATCATCCCGTCAGGC
+HWI-EAS443:3:45:396:396#0/1
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@HWI-EAS443:3:45:426:806#0/1
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+HWI-EAS443:3:45:426:806#0/1
aaa¥a`]`a]a]a]U``a[V¥_`a^V^aYZYPZS_]¥Y]Y
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+HWI-EAS443:3:46:1163:1258#0/1
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GGAACAGATGGCTGGATCGAGTGAACAGGCAGCAGAGGCC  
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a]Za``b\_aba\_`a`\_`Z`]\_Ta\_`Q¥`^U[\_WX\_QV¥BB

@HWI-EAS443:3:47:123:153#0/1  
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+HWI-EAS443:3:47:123:153#0/1  
ab`UWW\_R\_[aab[]^aaa\_\_a[MS^NV]]YVVUEVXR`V  
@HWI-EAS443:3:47:913:1080#0/1  
CCGAGGTCGAAACGTACGTTCTTTCTATCATCCCGTCAGG  
+HWI-EAS443:3:47:913:1080#0/1  
^a¥\_\_aU[W^\_] ]^\_a][^Z\_`a`aba]]aa]V[[WTR\_  
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GAGGTCGAAACGTACGTTCTTTCTATCATCCCGTCAGGCC  
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a`aa^abZa¥ab]aab`a^baa^aaa\_^a][Ua\_¥^Z^¥S  
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+HWI-EAS443:3:49:10:349#0/1  
`Y^aaaaaaaVY`^a\_`^`\_]a`[``\_\_V]G]]W\_^UYR  
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+HWI-EAS443:3:4:1343:295#0/1  
a`aZ^\_[\_aaa¥a\_\_\_`b`^\_\_\_^^a[MUYUWBBBBBBB  
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+HWI-EAS443:3:4:787:528#0/1  
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+HWI-EAS443:3:50:283:439#0/1  
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+HWI-EAS443:3:51:724:692#0/1  
Z]a`X)`\_R[a]RK`\_^\_V¥^\_aRabbI`ba\_LTaa[`[  
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+HWI-EAS443:3:51:8:559#0/1  
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+HWI-EAS443:3:52:1432:807#0/1  
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+HWI-EAS443:3:52:339:842#0/1  
a\_a[`]\_]\_[\_\_^\_\_`]^\_aW]^`^]YX\_¥XYZ^UXUXR]  
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+HWI-EAS443:3:54:185:1023#0/1  
aJ\_`\_`Z^aaY[\_`\_`WO[RW¥SQ\_RZS^¥ZWULZW¥VV  
@HWI-EAS443:3:54:806:238#0/1  
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+HWI-EAS443:3:54:806:238#0/1  
a`a]`aa\_]\_¥¥`^V[^`^a`^¥UaY\_V[V]PWZKHNT  
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+HWI-EAS443:3:55:1605:1915#0/1  
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+HWI-EAS443:3:55:717:1329#0/1  
`ba\_\_a]R`X`baYV]^`aa[]`]S]¥^¥X^\_^]]Z¥^T  
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+HWI-EAS443:3:56:707:1262#0/1  
abbbbbbbbbbaabba`babaaaa````a\_aaabaaaa  
@HWI-EAS443:3:57:478:136#0/1  
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+HWI-EAS443:3:57:478:136#0/1  
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+HWI-EAS443:3:58:685:356#0/1  
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+HWI-EAS443:3:59:263:858#0/1  
¥\_^\_b`b`\_ab`b`a^^Y`X`¥¥\_¥L`^V`¥^XXUDTXU  
@HWI-EAS443:3:59:704:902#0/1  
GCCATTTGTCTGTGAGACCGATGCTGTGAATCAGCAATCT  
+HWI-EAS443:3:59:704:902#0/1  
\_a^W\_aa\_]¥^^¥`¥¥\_\_\_¥ZXa[ZX\_\_UUR\_X^U^US  
@HWI-EAS443:3:60:1111:1768#0/1  
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^`T`^`a\_a]RY`^aabX`QU\_[^X¥VV[YBBBBBBBBBB  
@HWI-EAS443:3:60:146:246#0/1  
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+HWI-EAS443:3:60:146:246#0/1  
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+HWI-EAS443:3:60:1721:1736#0/1  
`Y\_\_X\_\_T¥¥T`\_\_`Xa\_T\_PZ\_¥[OX[HWE^[]]WJMTZ  
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@HWI-EAS443:3:61:675:1016#0/1  
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+HWI-EAS443:3:61:675:1016#0/1  
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ACCGAGGTCAAACGTACGTTCTTTCTATCATCCCGTCAG  
+HWI-EAS443:3:62:1338:1574#0/1  
\_XX`RZPGR`]^]0]Taa¥NZLNZ¥TU]XXa^XGKM[X` `^  
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+HWI-EAS443:3:62:1360:1686#0/1  
^N¥W[WEW`a\_^V\_\_]]Y[]XYYUVYVRW[UVY]XYY^B  
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GCTGGATCGAGTGAACAGGCAGCAGAGGCCATGGAGGTTG  
+HWI-EAS443:3:62:730:1045#0/1  
aaaa\_\_^^`\_aU`^aa¥a^^`]¥TZYY\_YBBBBBBBBBBBB  
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+HWI-EAS443:3:62:855:53#0/1  
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+HWI-EAS443:3:64:1143:58#0/1  
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+HWI-EAS443:3:64:955:433#0/1  
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+HWI-EAS443:3:65:224:1320#0/1  
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+HWI-EAS443:3:66:965:1107#0/1  
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+HWI-EAS443:3:67:190:317#0/1  
aba\_Tbbbaa`abbaaa^aaaa\_a]W`a`a]^\_PZ][[]]B  
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+HWI-EAS443:3:67:693:734#0/1  
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+HWI-EAS443:3:69:401:1469#0/1  
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+HWI-EAS443:3:69:935:425#0/1  
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+HWI-EAS443:3:71:1468:399#0/1  
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+HWI-EAS443:3:72:187:702#0/1  
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+HWI-EAS443:3:72:998:1188#0/1  
^bbb`\_X¥X¥]^Z\_¥babaaYWaZ\_]V`WU\_¥X`]^`^¥^  
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+HWI-EAS443:3:73:1364:1082#0/1  
aa`]]`\_¥a`Z`\_`[`\_\_\_\_^Z^\_[^^U¥WWWZBBBBBB  
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TAAAGATGAGTCTTCTAACCGAGGTCGAAACGTACGTTCT  
+HWI-EAS443:3:73:751:612#0/1  
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@HWI-EAS443:3:76:790:1816#0/1  
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+HWI-EAS443:3:76:790:1816#0/1  
abaaa`abaaba```]¥aa^^a\_`Z\_a\_`^^a\_`^]W\_  
@HWI-EAS443:3:79:1083:39#0/1  
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+HWI-EAS443:3:79:1083:39#0/1  
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+HWI-EAS443:3:79:1382:1041#0/1  
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+HWI-EAS443:3:7:729:116#0/1  
a`]^Y`a`]a\_MM]VU¥¥^¥^USSUW^^MQ¥WBBBBBBB  
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+HWI-EAS443:3:80:288:995#0/1  
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+HWI-EAS443:3:81:527:1518#0/1  
```[Y]`aa]Z]¥]W]][^`\_\_a`a]`[¥[\_]X[VXX¥W[S  
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+HWI-EAS443:3:82:1028:764#0/1
Q_OTab`aWabbababb_b`bbb`_bba[S__b^Z]Xaa
@HWI-EAS443:3:82:1607:668#0/1
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+HWI-EAS443:3:82:1607:668#0/1
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+HWI-EAS443:3:82:424:254#0/1
`baaab`_aba`aaaa```aab^baaZ^`a]`¥¥¥W]^
@HWI-EAS443:3:82:805:642#0/1
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+HWI-EAS443:3:82:805:642#0/1
aa`aa`aa¥aa¥a`_a]a¥a¥^]_``__a`]]^¥¥__W^_
@HWI-EAS443:3:83:1152:627#0/1
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+HWI-EAS443:3:83:1152:627#0/1
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+HWI-EAS443:3:83:1280:824#0/1
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@HWI-EAS443:3:83:392:1274#0/1
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+HWI-EAS443:3:83:392:1274#0/1
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+HWI-EAS443:3:84:1331:1760#0/1
a_`]aba_aa_ba_ab`V`aaa_]aaa]aaa_a0aGa^YT
@HWI-EAS443:3:84:683:1377#0/1
TCCATGGCCTCTGCTGCCTGTTCACTCGATCCAGCCATCT
+HWI-EAS443:3:84:683:1377#0/1
abbaaaabbaa^_`a`ba`_Z``baZaa^]aa`^`_`a^Z
@HWI-EAS443:3:89:1150:368#0/1
ACCTCCATGGCCTCTGCTGCCTGTTCACTCGATCCAGCCA
+HWI-EAS443:3:89:1150:368#0/1
`b``a^ab`]]`a^^¥Z]aaaZ]]^`¥`a^¥^a]¥^X
@HWI-EAS443:3:8:904:1863#0/1
ATTTAAAGATGAGTCTTCTAACCGAGGTCGAAACGTACGT
+HWI-EAS443:3:8:904:1863#0/1
a__^Yba_]`aa_]U`JVZ^a]]][Y¥UGW_`_`Z`H^P]N
@HWI-EAS443:3:90:1652:1631#0/1
CATGGCCTCTGCTGCCTGTTCACTCGATCCAGCCATCTGT
+HWI-EAS443:3:90:1652:1631#0/1
ab^Z^¥X^_a_V_] [b^`Zbb`U`XL_aQ`R_ZT¥Z¥XXV
@HWI-EAS443:3:90:613:1116#0/1
GAACAGATGGCTGGATCGAGTGAACAGGCAGCAGAGGCCA
+HWI-EAS443:3:90:613:1116#0/1
a```ab]ZQU^`W`S¥`¥`a^Z_aV^]¥ZZ_Z¥0aa^^[B
@HWI-EAS443:3:91:1104:1785#0/1
TGACGGGATGATAGAAAGAACGTACGTTTCGACCTCGGTT
+HWI-EAS443:3:91:1104:1785#0/1
KXVXV¥aV0_] [a_aa_b`a]¥T]^XO¥Z_Y¥_N_a` [FR
@HWI-EAS443:3:91:1259:883#0/1
CGATCTCGGCTTTGAGGGGGCCTGACGGGATGATAGAAAG
+HWI-EAS443:3:91:1259:883#0/1
abaa_]] [a^_ba_Q`ba``J]^]OY]aaZ][YUYZa]^¥
@HWI-EAS443:3:9:193:969#0/1
GGCCTCTGCTGCCTGTTCACTCGATCCAGCCATCTGTTCC
+HWI-EAS443:3:9:193:969#0/1
abbbbaaba`aaaa`abbaaaaa]a`aaa`aa]aaZ`a[
@HWI-EAS443:3:1:272:1047#0/1
GTCCGCTTTAGCCATTCCATGAGAGCCTCAAGATCTGTG
+HWI-EAS443:3:1:272:1047#0/1
aYR[]LUDU¥_aXLXZ^^`Y_Z[_Z_XTNR¥V[TVPBBBB
@HWI-EAS443:3:14:239:244#0/1
ACAGATCTTGAGGCTCTCATGGAATGGCTAAAAACAAGAC
+HWI-EAS443:3:14:239:244#0/1
`aZ^`_ZS_`a¥a^WTR^YLLSFSUPRW[[BBBBBBBBBB

@HWI-EAS443:3:64:128:1429#0/1
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+HWI-EAS443:3:64:128:1429#0/1
abb_aa]¥aY^aab`b`^[`a]^]aa`_aRU`a¥a`
@HWI-EAS443:3:70:105:1414#0/1
GACTGGTCTTGTCTTTAGCCATTCCATGAGAGCCTCAAGA
+HWI-EAS443:3:70:105:1414#0/1
_OGY[ZQ_Z___baZ_¥UaX`T`_]U¥GW[_V]LTNFOP
@HWI-EAS443:3:77:72:185#0/1
ACTACCATCGTCAACATCCACAGCACTCTGCTGTTCCCTGT
+HWI-EAS443:3:77:72:185#0/1
abWW`a^[`aX_JVV^R`^[^a]U]XV^Z_U[[LSW[[[R
@HWI-EAS443:3:39:794:906#0/1
GATTGGTCTTGTCTTTAGCNATTCCATGAGAGCCTCAAGA
+HWI-EAS443:3:39:794:906#0/1
aaaaaa^`baa_aab_a]VDT`a`V][_aWUZV^_YXSP
@HWI-EAS443:3:87:1528:535#0/1
CAGCTCTATGTTGACAAATGACCATCGTCAACATCCACA
+HWI-EAS443:3:87:1528:535#0/1
`SX_Y`b¥a¥ab`_]`DUbb`]bba_]MVbaU_bZP__b
@HWI-EAS443:3:37:1143:1426#0/1
TGTGGTCTTGTCTTTAGCCATTCCATGAGAGCCTCAAGAT
+HWI-EAS443:3:37:1143:1426#0/1
]`U`a`[^aaba_a`X`_a`ab`^S]YaVaaaa¥_a_[S
@HWI-EAS443:3:100:682:1360#0/1
ATTGGTCTTGTCTTTAGCCATTCCATGAGAGCCTCAAGAT
+HWI-EAS443:3:100:682:1360#0/1
J¥`b_Z__bb^¥aS`bbaX_Xab__baaba`WGaaaRbaB
@HWI-EAS443:3:13:99:2006#0/1
GATTGGTCTTGTCTTTAGCCATTCCATGAGAGCCTCAAGA
+HWI-EAS443:3:13:99:2006#0/1
aaaa`[O[a_¥W^`a__`aaa^^_UXMR[¥a]]Ya`^^^
@HWI-EAS443:3:14:1514:863#0/1
GCTCTATGTTGACAAAATGACCATCGTCAACATCCACAGC
+HWI-EAS443:3:14:1514:863#0/1
a`a_aaaaaa^`[```aa^Z_a^[¥TX^¥MY]UU[V¥UT
@HWI-EAS443:3:15:1287:132#0/1
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+HWI-EAS443:3:15:1287:132#0/1
aaa`a^Ya`bbZRa_a¥a_]^[^`^^UMMZ_]U¥RLOWYB
@HWI-EAS443:3:15:1665:621#0/1
CTCTATGTTGACAAAATGACCATCGTCAACATCCACAGCA
+HWI-EAS443:3:15:1665:621#0/1
_Uaa`bbJ¥[Waba`a_b`Z`abbaa`a__aaY]YD^a^`
@HWI-EAS443:3:19:119:335#0/1
GTAGTTTTTTACTCCAGCTCTATGTTGACAAAATGACCAT
+HWI-EAS443:3:19:119:335#0/1
a¥ab[^aa`¥_b`a]ZZa`a_]a^`U¥_`[_]UZW[_O
@HWI-EAS443:3:19:1247:1444#0/1
GATTGGTCTTGTCTTTAGCCATTCCATGAGAGCCTCAAGA

+HWI-EAS443:3:19:1247:1444#0/1
a`a`ab_abaa_aaaaaa`aaaa_a`___a^___`___
@HWI-EAS443:3:19:889:620#0/1
CTTGTCTTTAGCCATTCCATGAGAGCCTCAAGATCTGTGT
+HWI-EAS443:3:19:889:620#0/1
`baa__abaaaba`b`aa`a[aa`aaa__]]a^a]`a^bZ
@HWI-EAS443:3:23:1028:1616#0/1
GATTGGTCTTGTCTTTAGCCATTCCATGAGAGCCTCAAGA
+HWI-EAS443:3:23:1028:1616#0/1
`]VXQOY`__^V[`¥]a¥_X___NZ`_NW_WKNN`_`XZ]
@HWI-EAS443:3:24:1118:769#0/1
CAGATTGCTGATTCACAGCATCGGTCTCACAGACAAATGG
+HWI-EAS443:3:24:1118:769#0/1
abbabbbbbbbbabbbbabbbWaaaaabbbba`a]`a
@HWI-EAS443:3:26:63:1613#0/1
GCTCTATGTTGACAAAATGACCATCGTCAACATCCACAGC
+HWI-EAS443:3:26:63:1613#0/1
_a_bbbbaU]`b`_ab]b`Y`[bba¥]]a¥a_YZ_aa^^_
@HWI-EAS443:3:26:880:1388#0/1
GCTCTATGTTGACAAAATGACCATCGTCAACATCCACAGC
+HWI-EAS443:3:26:880:1388#0/1
ababb]``_a`aabbbbaa_aa_aa_aZ`aaU``_[a`_Y¥
@HWI-EAS443:3:28:679:499#0/1
GTCTTTAGCCATTCCATGAGAGCCTCAAGATCTGTGTTCT
+HWI-EAS443:3:28:679:499#0/1
a_aaa¥a`aY`^`_`Z]^USTX`^[]X]]YW^^aZaZ_]]
@HWI-EAS443:3:33:190:1444#0/1
CAGATCTTGAGGCTCTCATGGAATGGCTAAAGACAAGACC
+HWI-EAS443:3:33:190:1444#0/1
]TZa[a`__a_a__V`S^Y_ZTYPU]X]`YTXSU]R[]^
@HWI-EAS443:3:34:954:65#0/1
GATTGGTCTTGTCTTTAGCCATTCCATGAGAGCCTCAAGA
+HWI-EAS443:3:34:954:65#0/1
^T`]a`0^a^`aaba`YZ^`aa]W`[¥][Z]]^Y^^XYXX
@HWI-EAS443:3:35:453:1415#0/1
ATTGGTCTTGTCTTTAGCCATTCCATGAGAGCCTCAAGAT
+HWI-EAS443:3:35:453:1415#0/1
U`ZX[[]``ZS`a`_]aba__aa`TZU¥^`_`aQaYOXXT
@HWI-EAS443:3:37:1706:1565#0/1
TTGGTCTTGTCTTTAGCCATTCCATGAGAGCCTCAAGATC
+HWI-EAS443:3:37:1706:1565#0/1
^ab¥]^_Y¥Y``_^_^^]`aa`^`_¥^^Ra`_aa_a`^P
@HWI-EAS443:3:37:740:127#0/1
GCTCTATGTTGACAAAATGACCATCGTCAACATCCACAGC
+HWI-EAS443:3:37:740:127#0/1
`baaabbb`baabaabaa_a`_aa`X[SK[^Taa^`_`^Y
@HWI-EAS443:3:38:1117:638#0/1
CACAGATCTTGAGGCTCTCATGGAATGGCTAAAGACAAGA
+HWI-EAS443:3:38:1117:638#0/1
aabbabbbbabab`baaQaaaab¥a¥Z`__Y_aY]U`__W

@HWI-EAS443:3:42:465:371#0/1
ATGACCATCGTCAACATCCACAGCACTCTGCTGTTCCCTGT
+HWI-EAS443:3:42:465:371#0/1
]```]Z¥]]aYU][`a`_V]][[R[_]IZ`PXRFL_Z
@HWI-EAS443:3:47:1591:501#0/1
CTCTATGTTGACAAAATGACCATCGTCAACATCCACAGCA
+HWI-EAS443:3:47:1591:501#0/1
abbbababbbb`aab_baaaabb_aa^aaYa``aa`aaWa
@HWI-EAS443:3:47:1741:1669#0/1
AGCTCTATGTTGACAAAATGACCATCGTCAACATCCACAG
+HWI-EAS443:3:47:1741:1669#0/1
abab`aabb`aaa]aa^^]aa_a_a_aYX]^W_[YJWR^Z
@HWI-EAS443:3:48:282:269#0/1
CTCTATGTTGACAAAATGACCATCGTCAACATCCACAGCA
+HWI-EAS443:3:48:282:269#0/1
aab_ba``babbbbbbbaabbaaVZ`a`a_Z¥`PaaY`
@HWI-EAS443:3:49:1316:1756#0/1
GATTGGTCTTGTCTTTAGCCATTCCATGAGAGCCTCAAGA
+HWI-EAS443:3:49:1316:1756#0/1
`bbbb`bbbab`abaab_bb^babbb`bbaba`^aa`aa
@HWI-EAS443:3:50:689:394#0/1
GCTCTATGTTGACAAAATGACCATCGTCAACATCCACAGC
+HWI-EAS443:3:50:689:394#0/1
``b_[abbbb_Y___Y`ba`^aa_a[]^Y`a`a]YW¥Y
@HWI-EAS443:3:54:1241:297#0/1
ATTGGTCTTGTCTTTAGCCATTCCATGAGAGCCTCAAGAT
+HWI-EAS443:3:54:1241:297#0/1
abbbb`bbbaabbbbbbaaaa_aaaa^b`a`aa`_]a`
@HWI-EAS443:3:63:780:1335#0/1
GCTCTATGTTGACAAAATGACCATCGTCAACATCCACAGC
+HWI-EAS443:3:63:780:1335#0/1
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@HWI-EAS443:3:65:574:25#0/1
GCTCTATGTTGACAAAATGACCATCGTCAACATCCACAGC
+HWI-EAS443:3:65:574:25#0/1
aa`¥¥Y`a¥[aZ^`Z]]`aYWTL__Y]^RRY][BBBBBB
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+HWI-EAS443:3:66:815:1464#0/1
`]Z]¥_[]VT¥W]`a^]S_[]XVQVSZ¥SOXTXU[SPQ
@HWI-EAS443:3:68:858:719#0/1
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+HWI-EAS443:3:68:858:719#0/1
`aba`a[bbbaaabba`aaaaa`aba``^aa_aa_^^^
@HWI-EAS443:3:69:1156:1018#0/1
CTTGTCTTTAGCCATTCCATGAGAGCCTCAAGATCTGTGT
+HWI-EAS443:3:69:1156:1018#0/1
_]UQNa]bbXP]]XaROU^JR¥NOLWWQUQKNWPTN`[]M
@HWI-EAS443:3:70:232:246#0/1
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@HWI-EAS443:3:91:221:1252#0/1
TTGGTCTTGTCTTTAGCCATTCCATGAGAGCCTCAAGATC
+HWI-EAS443:3:91:221:1252#0/1
a_UaIb[¥_UX[aaaa`¥U[___ULVYZ`X^__UZQHaX__
@HWI-EAS443:3:96:1304:804#0/1
ATGACCATCGTCAACATCCACAGCACTCTGCTGTTCCCTGT
+HWI-EAS443:3:96:1304:804#0/1
^aXUQQ¥WWW¥`X]WFFb^YW]WZU]]aG]^P`_H¥BBBBB
@HWI-EAS443:3:29:320:1084#0/1
GTGTTTTTTATCATTAAATAAGCTGAAACGAGATGACTCA
+HWI-EAS443:3:29:320:1084#0/1
[]¥]_`a`VQVT[]`aYW¥IS^YWV`UJ]LWXJY]_¥Y`
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CAAGGGTGTTTTTTATCATTAAATAAGCTGAAACGAGAAA
+HWI-EAS443:3:64:895:1292#0/1
aaaaaa[b`aaaaaaaaaaaa`aaaa`a`aa^a`a__]
@HWI-EAS443:3:6:176:991#0/1
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+HWI-EAS443:3:6:176:991#0/1
aa`bbbMbaabbbb`aaabbaaaaaaaaaaaaa_baaa`_
@HWI-EAS443:3:72:429:1670#0/1
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+HWI-EAS443:3:72:429:1670#0/1
a^aaa`S[[^`_`_`_`aa`^_a`_`_`a[[`_`_`^`_`^`
@HWI-EAS443:3:97:1467:687#0/1
CAAGGGTGTTTTTTATCATTAAATAAGCTGAAACGAGAAA
+HWI-EAS443:3:97:1467:687#0/1
ababbb¥baabbbbbb`bbbbbbbbbb`abbbbaaaba`a
@HWI-EAS443:3:75:773:1422#0/1
CAGGGCTGGATGCTGAACAAAACCTCCCGCTATATCCTGAC
+HWI-EAS443:3:75:773:1422#0/1
a`[_`_`¥XV`_U¥`Uab`babbba]^aaa_ab_aaa`ZW^]
@HWI-EAS443:3:98:163:99#0/1
CGTNGTCAGGATATAGCGGGAGTTTTGTTTCAGCATCCAGA
+HWI-EAS443:3:98:163:99#0/1
ab]D]Xabbb`baababbbaRbRbabaZa_YaY__[_Xa]
@HWI-EAS443:3:4:1567:719#0/1
CGCTTCTGGGTTGAACTAATCANAGGGCGACCCAAAGAGA
+HWI-EAS443:3:4:1567:719#0/1
abbbb`bbbbbabaaaaabbba¥D[a`a`b`^`_`¥`¥^`a[_
@HWI-EAS443:3:10:331:60#0/1
TCCAGAGTGTGTTCTCTTTGGGTCGCCCTCTGATTAGTTC
+HWI-EAS443:3:10:331:60#0/1
aaa`a`b¥a_a^a`__`_`_a_Y^`¥[U^^`_¥`_`_Y¥U
@HWI-EAS443:3:12:1440:1700#0/1
CAACTCAGCAGCGTCTGGCCAAGACCAACCCACAGTGTCA
+HWI-EAS443:3:12:1440:1700#0/1
]bab`baa`aGF_^Zaba[``b`]ZVaa`¥_aQb_Ua_Q^
@HWI-EAS443:3:44:718:310#0/1
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+HWI-EAS443:3:44:718:310#0/1
`ba]`_T]ZY]`ab¥^^_a`_a^a_Ya_]`YR]a_]W^
@HWI-EAS443:3:57:956:229#0/1
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+HWI-EAS443:3:57:956:229#0/1
aa`[abaaa¥^ZZaXa_IaaX^__QLVZRaUVXUaMSO]B
@HWI-EAS443:3:77:1450:1588#0/1
GATTGTGTTCTCTTTGGGTCGCCCTGTGATTAGTTCAACC
+HWI-EAS443:3:77:1450:1588#0/1
a``a`_ab[bb]`YJ]aSTWbW_XG_Waab]]TJX`^U_
@HWI-EAS443:3:47:455:601#0/1
GCCGGGTTGAACTAATCAGAGGGCGACCCAAAGAGAACAC
+HWI-EAS443:3:47:455:601#0/1
`Z¥ZZ_W_abb]aaa^Xab`aa`a]NY^a_]a_aY]Y_G
@HWI-EAS443:3:49:42:1656#0/1
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+HWI-EAS443:3:49:42:1656#0/1
`bX]Tbabba^babbabb`a`aba_X`_X^a_a_aS[WD¥
@HWI-EAS443:3:54:570:1461#0/1
CTGGGTTGAACTAATCAGAGGGCGNCCCAAAGAGAACACA
+HWI-EAS443:3:54:570:1461#0/1
abbbbaa_abbbbababb``^_VDXa_a]abaaab`b_a
@HWI-EAS443:3:17:1495:1014#0/1
CGCTTCTGGGTTGAACTAATCAGAGGGCGACCCAAAGAGA
+HWI-EAS443:3:17:1495:1014#0/1
]bb`a¥¥WZ_abbabV_bbaJU]_b]ZZbX]`ab^H^ab`
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GTTCTGGATGCTGAACAAAACCTCCCGCTATATCCTGACCN
+HWI-EAS443:3:32:875:1479#0/1
a`aaa]]^a`a`]`a`_`_a_]`a[^^^`_a_]¥][`YD
@HWI-EAS443:3:43:1349:716#0/1
GTGTTCTCTTTGGGTCGCCCTCTGATTAGTTCAACCCAGT
+HWI-EAS443:3:43:1349:716#0/1
a¥]]aab`aaaa`[Y^a`]_a`_a__aZSVaZ]_Z]T[`Y
@HWI-EAS443:3:9:683:569#0/1
GCTGTGGGTTGGTCTTGGCCAGACGGTGCTGAGTTGCCAT
+HWI-EAS443:3:9:683:569#0/1
aaaaW`aa`a]OR]aaa`¥]WZ`_QaZ[_[aW¥`WRZZ
@HWI-EAS443:3:10:1031:651#0/1
TTCTGGGTTGAACTAATCAGAGGGCGACCCAAAGAGAACA
+HWI-EAS443:3:10:1031:651#0/1
a`¥`aaU`a_a¥`¥^_X`_¥__¥U^¥WUSVWW¥X¥WWWV
@HWI-EAS443:3:10:551:938#0/1
ACTGTGGGTTGGTCTTGGCCAGACGGTGCTGAGTTGCCAT
+HWI-EAS443:3:10:551:938#0/1
aabbabbbaab^a`¥^aaaa`aaaaVa__ZN_Z^_]`^__
@HWI-EAS443:3:11:1077:98#0/1
AGATTGTGTTCTCTTTGGGTCGCCCTCTGATTAGTTCAAC
+HWI-EAS443:3:11:1077:98#0/1
aa[_¥_¥][00^a``YNOMJ[TGT^[^`W]XWTS_]Z_B

@HWI-EAS443:3:11:175:1262#0/1
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+HWI-EAS443:3:11:175:1262#0/1
a_abaa^a_U_¥_^¥^aaaaa`a`aa^`]``aa`a¥VV]
@HWI-EAS443:3:14:1511:1410#0/1
GGTCAGGATATAGCGGGAGTTTTGTTTCAGCATCCAGAACT
+HWI-EAS443:3:14:1511:1410#0/1
aa^```]¥`^a_]Y`__¥_Q^__TW¥¥WWWWWN¥¥YY¥QY
@HWI-EAS443:3:16:1244:1768#0/1
CCTTGCTTCTGGGTTGAACTAATCAGAGGGCGACCCAAAG
+HWI-EAS443:3:16:1244:1768#0/1
aaaaaaabaaaaa]aaaba```a_a`_a_]a_a`V_a^__
@HWI-EAS443:3:17:1174:610#0/1
AACTCAGCACCGTCTGGCCAAGACCAACCCACAGTGTCAC
+HWI-EAS443:3:17:1174:610#0/1
aZa`]ababaab_aaba``_V]U^YX___a___aWa¥¥_¥
@HWI-EAS443:3:18:652:168#0/1
GTTGAACTAATCAGAGGGCGACCCAAAGAGAACAATCT
+HWI-EAS443:3:18:652:168#0/1
aaaabbaaaa`aa`a`aaaa^_a^aaaa___a¥a_^¥X
@HWI-EAS443:3:19:333:646#0/1
ACTGTGGGTTGGTCTTGGCCAGACGGTGCTGAGTTGCCAT
+HWI-EAS443:3:19:333:646#0/1
aa`UJT_a^)`aP`[a_aaa^¥`aaS]RTX[at`XU^`Y
@HWI-EAS443:3:21:1341:1925#0/1
GGTTGAACTAATCAGAGGGCGACCCAAAGAGAACAATC
+HWI-EAS443:3:21:1341:1925#0/1
Y_a_R^bb_b`Zaa^¥YT_QXa_¥S`__X`aV_W``_]N
@HWI-EAS443:3:21:1499:322#0/1
GGCAACTCAGCACCGTCTGGCCAAGACCAACCCACAGTGT
+HWI-EAS443:3:21:1499:322#0/1
¥baZ`Z_ba^abZZaa`^)]_a`[_^__`P`[S_`_W]W
@HWI-EAS443:3:21:522:811#0/1
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+HWI-EAS443:3:21:522:811#0/1
ababbaUb]]Y`aabSa]a]aa``_aP_a`^ZaS_`QNRM
@HWI-EAS443:3:22:1650:339#0/1
GTTCTCTTTGGGTCGCCCTCTGATTAGTTCAACCCAGAAG
+HWI-EAS443:3:22:1650:339#0/1
a`a]a]^`__a]X]_X]_]_a_`__a]^Va^Y]S¥_^X^
@HWI-EAS443:3:22:230:1373#0/1
TCTGGGTTGAACTAATCAGAGGGCGACCCAAAGAGAACAC
+HWI-EAS443:3:22:230:1373#0/1
abba^a^`_Z_a]]aT``Z[]¥R]¥]]`_URMY_`XM¥``
@HWI-EAS443:3:22:413:1534#0/1
AGATTGTGTTCTCTTTGGGTCGCCCTCTGATTAGTTCAAC
+HWI-EAS443:3:22:413:1534#0/1
¥Z¥a`aabUZ^ZO¥ZZ`U]Iab_]`aa`WSVWTVHZa`VO
@HWI-EAS443:3:23:776:742#0/1
GTGTTCTCTTTGGGTCGCCCTCTGATTAGTTCAACCCAGA

@HWI-EAS443:3:34:945:332#0/1
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+HWI-EAS443:3:34:945:332#0/1
`a_`aaaa`a`a`[a_aaa___¥`__`_^¥¥¥^¥¥YU
@HWI-EAS443:3:35:1080:961#0/1
GTTCTCTTTGGGTCGCCCTCTGATTAGTTCAACCCAGAAG
+HWI-EAS443:3:35:1080:961#0/1
^^`b`bb`[a`¥[baabbb`a_^aa^__]b_bba_Z]]_¥
@HWI-EAS443:3:35:174:1051#0/1
GTTCTGGATGCTGAACAAAACCTCCCGCTATATCCTGACCA
+HWI-EAS443:3:35:174:1051#0/1
abbbabaaa^V`a_bb¥`bY``abaaa^¥[K]ba_]aaY¥
@HWI-EAS443:3:37:463:566#0/1
GTCCAGATTGTGTTCTCTTTGGGTCGCCCTCTGATTAGTT
+HWI-EAS443:3:37:463:566#0/1
a_aa_a`aaa_`a_`a_`a_`¥`_]`a¥_a`aaaa]_
@HWI-EAS443:3:37:70:41#0/1
TGTTCTCTTTGGGTCGCCCTCTGATTAGTTCAACCCAGAA
+HWI-EAS443:3:37:70:41#0/1
aa`aaaa`aa`Va`a`a_]T]Z¥ZMOZ¥I[`^^^W¥
@HWI-EAS443:3:37:85:1910#0/1
TTCTCTTTGGGTCGCCCTCTGATTAGTTCAACCCAGAAGC
+HWI-EAS443:3:37:85:1910#0/1
`a]ZYa]UJLHG[aaaa___[QR^aYRX_QTXa`SU[OS_
@HWI-EAS443:3:38:284:1758#0/1
AGATTGTGTTCTCTTTGGGTCGCCCTCTGATTAGTTCAAC
+HWI-EAS443:3:38:284:1758#0/1
aabaaZ]b^aaaaa`VJY¥G_]aa^_a``Z`_ZZ)`a_]`
@HWI-EAS443:3:38:292:608#0/1
GTTGAACTAATCAGAGGGCGACCCAAAGAGAACAATCT
+HWI-EAS443:3:38:292:608#0/1
_R¥a`bba__a`_]U`R`_Z]Z_`^TGX¥VS¥¥¥¥VYFN[W
@HWI-EAS443:3:38:583:773#0/1
GGTCAGGATATAGCGGGAGTTTTGTTTCAGCATCCAGAACT
+HWI-EAS443:3:38:583:773#0/1
aU_¥a[[[`_XY_]`a__aTTR[^R¥]NQGVVYR]YYYYO
@HWI-EAS443:3:39:1101:184#0/1
GCTTCTGGGTTGAACTAATCAGAGGGCGACCCAAAGAGAA
+HWI-EAS443:3:39:1101:184#0/1
a_`_Z_a[^G¥^_aYY¥YU¥W^WTZ¥YZWWWUGWWWUWWWU
@HWI-EAS443:3:42:1273:297#0/1
AGATTGTGTTCTCTTTGGGTCGCCCTCTGATTAGTTCAAC
+HWI-EAS443:3:42:1273:297#0/1
[ababbbbaabbaaa`aaaU`ba_aaa`babaaba`_aa`
@HWI-EAS443:3:42:1767:838#0/1
CTGGGTTGAACTAATCAGAGGGCGACCCAAAGAGAACA
+HWI-EAS443:3:42:1767:838#0/1
aabbaabbbabbababbabbababa`aa`b``a`aaa
@HWI-EAS443:3:45:1142:1230#0/1
GATTGTGTTCTCTTTGGGTCGCCCTCTGATTAGTTCAACC

+HWI-EAS443:3:45:1142:1230#0/1
¥¥¥X^_SV^_XMR[VY[_Z¥`X^a¥bb____]`[`T¥Z`a
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GGTCAGGATATAGCGGGAGTTTTGTTTCAGCATCCAGAACT
+HWI-EAS443:3:45:1384:354#0/1
aa_^[ba__`a_a¥aaa^a]^`^`WaYZZ¥¥ZWbU]YYNY
@HWI-EAS443:3:46:1112:170#0/1
GTCCAGATTGTGTTCTCTTTGGGTCGCCCTCTGATTAGTT
+HWI-EAS443:3:46:1112:170#0/1
a[`¥Q[^]a]U[^YR[T]_^^[`UXXR[YXW^[Q]]RT[N
@HWI-EAS443:3:47:133:1065#0/1
TGACACTGTGGGTTGGTCTTGGCCAGACGGTGCTGAGTTG
+HWI-EAS443:3:47:133:1065#0/1
¥aaabbb`ab_¥]¥^]ab`¥_RZ`]_a`S¥DXWP_XWW
@HWI-EAS443:3:49:1368:457#0/1
TTCTCTTTGGGTCGCCCTCTGATTAGTTCAACCCAGAAGC
+HWI-EAS443:3:49:1368:457#0/1
abaa_a_aaaa__`_aa_aa`aa`a¥a_aaZ[[`_a``aQ
@HWI-EAS443:3:51:868:1650#0/1
CAACTCAGCACCGTCTGGCCAAGACCAACCCACAGTGTCA
+HWI-EAS443:3:51:868:1650#0/1
_[]bb`bZ`a`baY^bb_Y^`aa^S`baS]ZVbbX^Y^X
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ATTGTGTTCTCTTTGGGTCGCCCTCTGATTAGTTCAACCC
+HWI-EAS443:3:52:347:976#0/1
abbaYaaabaaaa`aa_aba__a_aa]`a¥a]__aaW[_
@HWI-EAS443:3:52:88:1534#0/1
TGGTCAGGATATAGCGGGAGTTTTGTTTCAGCATCCAGAAC
+HWI-EAS443:3:52:88:1534#0/1
a`U[abbba`¥_aa__U`aNIV`]^WWZ_Z`_UO]^`^W
@HWI-EAS443:3:54:1102:1600#0/1
GGTCAGGATATAGCGGGAGTTTTGTTTCAGCATCCAGAACT
+HWI-EAS443:3:54:1102:1600#0/1
a`_`aaaaaaaa`Y`a^a`aa]_a^[U][^W¥^`^aV^
@HWI-EAS443:3:54:985:734#0/1
TTCTCTTTGGGTCGCCCTCTGATTAGTTCAACCCAGAAGC
+HWI-EAS443:3:54:985:734#0/1
a`PWZXa[^0[KUYG[`][]`T`_Y]Y[LPZVN[[`XF[J
@HWI-EAS443:3:55:252:1162#0/1
AGATTGTGTTCTCTTTGGGTCGCCCTCTGATTAGTTCAAC
+HWI-EAS443:3:55:252:1162#0/1
``aabb^babaaaaaaaa^]aaa`ababbaaab``aaa_
@HWI-EAS443:3:55:29:248#0/1
CTGGGTTGAACATAATCAGAGGGCGACCCAAAGAGAACACA
+HWI-EAS443:3:55:29:248#0/1
^^b`_[a¥¥_S__¥aaaaaaaa``Z[[`^Z[`_a[YYVXY
@HWI-EAS443:3:55:625:406#0/1
GGGTTGAACATAATCAGAGGGCGACCCAAAGAGAACAAT
+HWI-EAS443:3:55:625:406#0/1
aba¥`bababaaaaaaaa_ba_aaa__``_aaaa`__a``__

@HWI-EAS443:3:56:362:1160#0/1
GTCCAGATTGTGTTCTCTTTGGGTCGCCCTCTGATTAGTT
+HWI-EAS443:3:56:362:1160#0/1
aaa`aa_aaa_aaa`a`a__a__Y`a^__a`aa_aa__¥_
@HWI-EAS443:3:56:385:164#0/1
GTTGAACATAATCAGAGGGCGACCCAAAGAGAACAATCT
+HWI-EAS443:3:56:385:164#0/1
a`YWM_SU¥ZaUXXT]^aaa[TRS^]O^LVNLU^¥U¥UN]
@HWI-EAS443:3:58:523:387#0/1
AACTAATCAGAGGGCGACCCAAAGAGAACAATCTGGAC
+HWI-EAS443:3:58:523:387#0/1
[baaa^baa`_aa^aa`__aaa`a_a____a_aaaa``_`_
@HWI-EAS443:3:58:821:772#0/1
TGGCAACTCAGCACCGTCTGGCCAAGACCAACCCACAGTG
+HWI-EAS443:3:58:821:772#0/1
aabaabbaab_aaa_b¥b_¥[`a^a__[VW]SWZ^_`_QZ
@HWI-EAS443:3:59:1686:1328#0/1
CAACTCAGCACCGTCTGGCCAAGACCAACCCACAGTGTC
+HWI-EAS443:3:59:1686:1328#0/1
`__a`^^aa]a__¥`ab^^```Qaa` `[`aU_¥¥NRRRR
@HWI-EAS443:3:60:854:376#0/1
GGTTGAACATAATCAGAGGGCGACCCAAAGAGAACAATC
+HWI-EAS443:3:60:854:376#0/1
ab`aa`b`aaaa_aaaa`__aa_``aaaaaa_`a`_^^]
@HWI-EAS443:3:61:1119:96#0/1
CTGTGGGTTGGTCTTGGCCAGACGGTGCTGAGTTGCCATT
+HWI-EAS443:3:61:1119:96#0/1
ababbbbbbbba`bbbbbaba[`bb¥b`bb_b[aaUVa`^
@HWI-EAS443:3:62:1579:1616#0/1
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+HWI-EAS443:3:62:1579:1616#0/1
aWa¥^Y`Zba`aXW^Y`a¥a_aa¥`¥¥_Y]a^OJTXY`XX
@HWI-EAS443:3:66:262:617#0/1
ACTCAGCACCGTCTGGCCAAGACCAACCCACAGTGCTACT
+HWI-EAS443:3:66:262:617#0/1
aaaa¥ZXZ_aa__YWXa`_UTX^]N_X¥[PZ¥JVUVJNS
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+HWI-EAS443:3:68:1268:368#0/1
aabab]aba`babaa`a_]a```aaa`a_a_a_aV`aaa
@HWI-EAS443:3:6:123:549#0/1
CTCTTTGGGTCGCCCTCTGATTAGTTCAACCCAGAAGCAA
+HWI-EAS443:3:6:123:549#0/1
aa`a`_WT_¥aa_¥U^_aa`a`_bZR¥aa__Va_a_____
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GGCAACTCAGCACCGTCTGGCCAAGACCAACCCACAGTG
+HWI-EAS443:3:6:238:1333#0/1
a`aa_aR`]`a]M^_MZY¥`X]WZYYSUU^^¥UQ¥BBBBB
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+HWI-EAS443:3:70:1638:476#0/1
[`babaZ`_]b¥`a]bXb]baaaaZ¥)`_a`QPWW`_R]
@HWI-EAS443:3:70:18:1004#0/1
TCTGGGTTGAACTAATCAGAGGGCGACCCAAAGAGAACAC
+HWI-EAS443:3:70:18:1004#0/1
a`ab]`)]aabaaT]a`_UL^¥a¥H[`_¥R¥_[aXF[_¥
@HWI-EAS443:3:71:252:1747#0/1
CCTTGCTTCTGGGTTGAACTAATCAGAGGGCGACCCAAAG
+HWI-EAS443:3:71:252:1747#0/1
ab^¥X_¥`a][a`[_`aba_aa_`_][P[XU`[Z_____¥^W
@HWI-EAS443:3:71:50:570#0/1
GATTGTGTTCTCTTTGGGTCGCCCTCTGATTAGTTCAACC
+HWI-EAS443:3:71:50:570#0/1
aaa`b`_`aaa`_`a`_Y`_`a`_`_a`_a¥^^`_`_`^
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+HWI-EAS443:3:72:1041:695#0/1
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@HWI-EAS443:3:73:1071:432#0/1
CAACTCAGCACCGTCTGGCCAAGACCAACCCACAGTGTCA
+HWI-EAS443:3:73:1071:432#0/1
abba]`_`^aa_]^[Z]a^VX__¥TXT_a^^YZ`_[G]V¥_
@HWI-EAS443:3:75:227:910#0/1
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+HWI-EAS443:3:75:227:910#0/1
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@HWI-EAS443:3:75:407:1529#0/1
GATTGTGTTCTCTTTGGGTCGCCCTCTGATTAGTTCAACC
+HWI-EAS443:3:75:407:1529#0/1
T__[Z__WXX[baa_aaaR`_`b_V¥aaa`a`_`_X_a_a_^
@HWI-EAS443:3:75:542:1165#0/1
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+HWI-EAS443:3:75:542:1165#0/1
aaaaaab¥`aa_^a`]aa[X`a`_`_`]a_S]¥_`U_QZ_]`
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+HWI-EAS443:3:82:1027:347#0/1
abbbbbbbaabb`baabbaa`_`aaa`a`_a_baaaaa¥__aa
@HWI-EAS443:3:83:1202:601#0/1
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+HWI-EAS443:3:83:1202:601#0/1
a_a^aZKTa_aa`_]aaXWa`a`_`a`_a_a_a__^`_`_`^
@HWI-EAS443:3:84:1267:1246#0/1
ATTGTGTTCTCTTTGGGTCGCCCTCTGATTAGTTCAACCC
+HWI-EAS443:3:84:1267:1246#0/1
`a]X`baaba`a^baXXYX`_`_`Ta`aaaa`_`_`^`aSba^N
@HWI-EAS443:3:86:1006:1278#0/1
GGTCAGGATATAGCGGGAGTTTTGTTTCAGCATCCAGA
+HWI-EAS443:3:86:1006:1278#0/1
a`_aaaa_aaaaa`aaa`aY`_`a]X`_`^^^_`^T]__^_X_

@HWI-EAS443:3:86:325:601#0/1
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+HWI-EAS443:3:86:325:601#0/1
Y_X_U¥_aZ`baa^)]`_[`Z`b[ab^`[^]`b¥X_^``_
@HWI-EAS443:3:86:505:426#0/1
GGCAACTCAGCACCGTCTGGCCAAGACCAACCCACAGTGT
+HWI-EAS443:3:86:505:426#0/1
]a_¥_^`abaTa^b¥b`ba^YWaaa`a`a^`a^aZaSdU
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+HWI-EAS443:3:86:729:788#0/1
^Taaaa`^`b[W]¥b`YT`a`]^`baaX¥`_¥_SZ`^¥ZZ
@HWI-EAS443:3:88:174:1079#0/1
GATTGTGTTCTCTTTGGGTCGCCCTCTGATTAGTTCAACC
+HWI-EAS443:3:88:174:1079#0/1
`aa_X]a`aa`_aa`_[]aaa`a`aa`_`[[`_¥a`_
@HWI-EAS443:3:88:796:1313#0/1
GAACTAATCAGAGGGCGACCCAAAGAGAACAATCTGGA
+HWI-EAS443:3:88:796:1313#0/1
aababbaababbbaabab_aabbaaababb_baaaaaab
@HWI-EAS443:3:89:1408:907#0/1
CCAGATTGTGTTCTCTTTGGGTCGCCCTCTGATTAGTTCA
+HWI-EAS443:3:89:1408:907#0/1
a`[b`a`a]ababbabba`ab`aaUH^abbbbabbb_[a
@HWI-EAS443:3:89:552:1425#0/1
CACTGTGGGTTGGTCTTGGCCAGACGGTGCTGAGTTGCCA
+HWI-EAS443:3:89:552:1425#0/1
aV]^`aVb¥a_ab^U_ba[`abb_]a^TRaU__^]Hab][_
@HWI-EAS443:3:92:1325:176#0/1
TCTGGGTTGAACTAATCAGAGGGCGACCCAAAGAGAACAC
+HWI-EAS443:3:92:1325:176#0/1
aba`ab^ababaa_aa`aaa_[_aa]]__^`^a__X`]
@HWI-EAS443:3:92:974:1162#0/1
ATTGTGTTCTCTTTGGGTCGCCCTCTGATTAGTTCAACCC
+HWI-EAS443:3:92:974:1162#0/1
abbb__a^[^b]aabb^a[``_aabbaaa]bNa_aVYSa
@HWI-EAS443:3:92:976:1022#0/1
CTGGGTTGAACTAATCAGAGGGCGACCCAAAGAGAACACA
+HWI-EAS443:3:92:976:1022#0/1
[[a__Q_Z_aKQ[a[[`U[¥K[JWTaS_bbUbabbaXb]_
@HWI-EAS443:3:98:328:1363#0/1
GTTCTGGATGCTGAACAAAACCTCCCGCTATATCCTGACCA
+HWI-EAS443:3:98:328:1363#0/1
a_aaaaa_aa`a`a`aa^aa_]_aa^`_a_a^___^Y¥_
@HWI-EAS443:3:99:736:228#0/1
GATTGTGTTCTCTTTGGGTCGCCCTCTGATTAGTTCAACC
+HWI-EAS443:3:99:736:228#0/1
a_Zab_a[aaa`a__ba]SX___`a^_a`a___W[X__¥]
@HWI-EAS443:3:9:252:1435#0/1
GTTCTCTTTGGGTCGCCCTCTGATTAGTTCAACCCAGAAG

+HWI-EAS443:3:9:252:1435#0/1
`Uba_H¥bb`bUXUaaa`a`a_a`X_]_]`a^a`a`[]a
@HWI-EAS443:3:78:1337:1422#0/1
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+HWI-EAS443:3:78:1337:1422#0/1
`]baaa]`aa^aaaP`[a]^`[[a`a_¥¥`P`_`^P_X
@HWI-EAS443:3:89:1495:848#0/1
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+HWI-EAS443:3:89:1495:848#0/1
a^R¥bTTWaa_0¥Q¥_RVS]TKXP_H]aBBBBBBBBBBBB
@HWI-EAS443:3:63:979:1380#0/1
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+HWI-EAS443:3:63:979:1380#0/1
abba`^ab¥a_a_aa`a`a`]aa]aa]__^`S`]¥`Za`
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+HWI-EAS443:3:84:1447:870#0/1
aaa^Z]XW¥¥^]V^`WXZ__X^Z^`]`R_¥^¥X^YSM`P^
@HWI-EAS443:3:11:1520:845#0/1
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+HWI-EAS443:3:11:1520:845#0/1
`SITW][NMYBBBBBBBBBBBBBBBBBBBBBBBBBBBBBB
@HWI-EAS443:3:36:675:416#0/1
GCTCGGGTTCGTTGCCTTTTCGTCCGAGAGCTCGATGACT
+HWI-EAS443:3:36:675:416#0/1
aaaa^a[¥[_X`_V¥^a`Z]_0¥¥`XTXaUNR^^]R]KU
@HWI-EAS443:3:71:1583:211#0/1
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+HWI-EAS443:3:71:1583:211#0/1
a^VRa^_]U]¥P¥]¥`¥WDRU¥QPTPU[UUVYUBBBBBBB
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ACTCATGTCAAAGGAAGGCACGATCGGGTTCGTTGCGTTT
+HWI-EAS443:3:2:1246:419#0/1
aX]^`^S_a]Y__`YNU`]N¥[`W`OVR_Z_VYU_ZUG^]B
@HWI-EAS443:3:44:210:1858#0/1
GAGCTCTCGGACGAAAAGGCAACGAACCCGATCGTGGCTT
+HWI-EAS443:3:44:210:1858#0/1
a_Qa_Q__¥_WZ_SaYQ¥I^aaYV_Y¥_¥UVWSBBBBBBB
@HWI-EAS443:3:64:325:1312#0/1
GGGTGGGGAGTCTTCGAGCTCTCGGACGAAAAGGCAACGA
+HWI-EAS443:3:64:325:1312#0/1
aa]R[X`^]X0¥¥¥`¥^X^Y[YXWXV[Y¥ZRVUVS]¥BBB
@HWI-EAS443:3:7:1270:596#0/1
GCGTGGAGTCTTCGAGCTCTCGGACGAAAAGGCAACGAAC
+HWI-EAS443:3:7:1270:596#0/1
a]]¥b`ab`aabaa`aa^]aZaba`aaaaaaa][aPa`aZ
@HWI-EAS443:3:8:141:189#0/1
GGCGGGGGAGTCTTCGAGCTCTCGGACGAAAAGGCAACGA
+HWI-EAS443:3:8:141:189#0/1
aaaa`a`_0¥][¥^a]X¥¥Z[Z]¥`ZU[P]`¥¥]U[^PSZ

@HWI-EAS443:3:15:832:889#0/1
GGGGTGGGAGTCTTCGAGCTCTCGGACGAAAAGGCAACG
+HWI-EAS443:3:15:832:889#0/1
aa¥aaaa`_^`a`_¥_[`^`]^¥^¥` `]`XX^^`aP¥
@HWI-EAS443:3:1:1163:68#0/1
GGCGTGGAGTCTTCGAGCTCTCGGACGAAAAGGCAACGAA
+HWI-EAS443:3:1:1163:68#0/1
WVWKaPJX[FWXK¥`P]KXNX¥PT¥ZRRZBBBBBBBBB
@HWI-EAS443:3:20:1204:953#0/1
GGCGGGGAGTCTTCGAACTCTCGGACGAAAAGGCAACGAA
+HWI-EAS443:3:20:1204:953#0/1
`babb`b[`abbb_a^H¥baa]^aa` `a`a`aYaa^^`a
@HWI-EAS443:3:21:968:453#0/1
GGAGTCTTCGAGCTCTCGGACGAAAAGTCAACGAACCCGA
+HWI-EAS443:3:21:968:453#0/1
a¥]¥WY_a]PT^VRFSY]^QP]^UU[HGNY`U^[YSPVVB
@HWI-EAS443:3:29:277:1318#0/1
ATCGGGTTCGTTGCCTTTTCGCCCAGAGCTCGAAGACTC
+HWI-EAS443:3:29:277:1318#0/1
`^aZ_ZVKQ]X]Q`¥^`S¥¥SEY]SZXXZ¥ZXRVSNUBB
@HWI-EAS443:3:29:532:627#0/1
GGGGAGTCTTCGAGCCCTCGGACGAAAAGGCAACGAACCC
+HWI-EAS443:3:29:532:627#0/1
a¥]` `UFXUMR]BBBBBBBBBBBBBBBBBBBBBBBBBBB
@HWI-EAS443:3:2:26:238#0/1
GCACGATCGGGTTCGTTGCCTTTTCGTCGAGAGCTCGAA
+HWI-EAS443:3:2:26:238#0/1
`` ` `S¥[`F¥R[SZRMU¥P^]OFPSRTPUPZBBBBBB
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+HWI-EAS443:3:33:259:1496#0/1
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@HWI-EAS443:3:34:1207:1034#0/1
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+HWI-EAS443:3:34:1207:1034#0/1
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@HWI-EAS443:3:36:728:2009#0/1
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+HWI-EAS443:3:36:728:2009#0/1
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@HWI-EAS443:3:39:1202:1625#0/1
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+HWI-EAS443:3:39:1202:1625#0/1
`baaba]^_]^aaQ_ab`¥` `¥¥__` [[_ZDMHX[]_^QS
@HWI-EAS443:3:40:26:531#0/1
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+HWI-EAS443:3:40:26:531#0/1
`aaa` `¥¥V_¥` `^^`]`^]X¥]`^¥YWDTY¥¥¥[GY¥]¥
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+HWI-EAS443:3:42:1135:940#0/1
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+HWI-EAS443:3:50:1673:1206#0/1
abba__bb`a^__`aab]^`^a_a^`T[T_Z`UXVXLO[a^
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+HWI-EAS443:3:53:672:1698#0/1
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+HWI-EAS443:3:5:532:1915#0/1
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+HWI-EAS443:3:67:90:655#0/1
_]Z¥XXSNN¥OG¥X]RYQ[XRS¥`¥QTXUZDQUHUPUUV
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+HWI-EAS443:3:68:1011:1227#0/1
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+HWI-EAS443:3:69:1233:1997#0/1
aa_W]aabba`^_Z``abb^`baaaaaaaaaYab^`aa`a`
@HWI-EAS443:3:77:1035:1246#0/1
CATTACTCATGTCAAAGGAAGGCACGATCAGGTTCTGTTGC
+HWI-EAS443:3:77:1035:1246#0/1
abbaabababbbaabbbaabbbbabbaXG^`ab_a^`XU
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+HWI-EAS443:3:7:1690:817#0/1
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@HWI-EAS443:3:80:602:710#0/1
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+HWI-EAS443:3:80:602:710#0/1
`a_____^¥aU^`YDT`¥`a_`_^X^^aZaW¥`^¥`TN]
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+HWI-EAS443:3:83:1373:737#0/1
a^aaaa`Saa_^a_aWUDTWa[V]aZ^____^QV^EY]^T
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+HWI-EAS443:3:89:386:724#0/1
^]TYVL`^_``XZ]a]`_aa``abba¥PVbO_a0^¥¥YM
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+HWI-EAS443:3:8:373:1539#0/1
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+HWI-EAS443:3:97:866:122#0/1
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@HWI-EAS443:3:23:374:270#0/1
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+HWI-EAS443:3:23:374:270#0/1
a`]aaaa`b¥a`Za```_¥VZ_]GYNKR]XRRU^BBBBBB
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+HWI-EAS443:3:47:1082:397#0/1
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+HWI-EAS443:3:31:613:1263#0/1
^b¥]bbbb`b^bbbb]bbbbbb_baaZD¥_ab^]aaaaR
@HWI-EAS443:3:33:1643:1162#0/1
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+HWI-EAS443:3:33:1643:1162#0/1
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+HWI-EAS443:3:43:1217:1906#0/1
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+HWI-EAS443:3:4:1763:1600#0/1
_[¥_aa]`````^R^a`YE_P¥WXX]EMSBBBBBBBBB
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+HWI-EAS443:3:54:202:1079#0/1
Va])baaaWD¥Q[¥]baa]Za`ONSWK¥QHJBBBBBBBBB
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+HWI-EAS443:3:55:1303:711#0/1
___[`Xba_W_Z¥b^^D¥bb`babbabbaa`````^W_`b`
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+HWI-EAS443:3:88:1692:1100#0/1
¥bbb_¥baababbba]D]bbbVbbabab__aaabbaaa`^
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aaaa^a`_a`_]_IaVZRXR[`W``] ^Y_X]N¥`TY¥]R
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+HWI-EAS443:3:31:1146:1240#0/1
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+HWI-EAS443:3:80:170:1739#0/1
`]aZa_b¥`baab`_abaaabaaa^a_baaa_a`a^`ba
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+HWI-EAS443:3:93:427:1028#0/1
^a```ab`_ZOZ^baa_V`^¥¥YZba_YZ^baZ`W]EZ]^
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+HWI-EAS443:3:10:50:165#0/1
Z_]bb`T`aabbbbaaR^_a_abbXbbbaa^a^¥¥Vaa`
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+HWI-EAS443:3:18:1186:1432#0/1
__IV[V`^[¥S`_aa`````Za^a`^aUN]]a^R_a`
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+HWI-EAS443:3:33:461:1854#0/1
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+HWI-EAS443:3:38:495:494#0/1
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+HWI-EAS443:3:60:1209:38#0/1
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+HWI-EAS443:3:61:736:972#0/1
HYT```TQ¥]¥]W_^[T_a^a`ab_^]QVXO`]W¥aa¥MO
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+HWI-EAS443:3:67:416:1004#0/1
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+HWI-EAS443:3:69:669:1166#0/1
a_a`[ZV¥aa`_`a`a_a`````_¥a`````^`X^¥aa`]^¥
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+HWI-EAS443:3:72:1293:266#0/1
aaa_[a`aaaaaa_[a`a]a¥``aa`¥a`a`_``Z`a^a
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+HWI-EAS443:3:72:893:1133#0/1
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+HWI-EAS443:3:88:1391:676#0/1
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+HWI-EAS443:3:88:1601:285#0/1
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+HWI-EAS443:3:89:203:1167#0/1
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+HWI-EAS443:3:94:206:1442#0/1
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+HWI-EAS443:3:100:482:1465#0/1
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+HWI-EAS443:3:100:986:1231#0/1
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@HWI-EAS443:3:10:1739:659#0/1
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+HWI-EAS443:3:10:1739:659#0/1
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+HWI-EAS443:3:10:299:763#0/1
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+HWI-EAS443:3:10:487:390#0/1
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+HWI-EAS443:3:10:831:532#0/1
a` `XX^PQ¥a^aU^¥¥_]_aa_]_]`¥`]T_a]M`_U¥¥
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+HWI-EAS443:3:11:1551:1127#0/1
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+HWI-EAS443:3:11:1717:323#0/1
aaa`aaaaaa`aa`_^]a¥ZaW` ` `Za^__^_^_^^_B
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+HWI-EAS443:3:11:187:480#0/1
aa_bbbbbbbbbbbbabbbaba[¥aaabaaWabaXb_aaa
@HWI-EAS443:3:11:422:842#0/1
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aaaa`aaYba`^aS_`a`^aaa_aa_¥Z^^_^]^[^`_^¥
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@HWI-EAS443:3:14:1157:107#0/1
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+HWI-EAS443:3:14:1157:107#0/1
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+HWI-EAS443:3:14:1593:1258#0/1
a^^aaYU^bV]_`_`_`_a[_`a__]a_Ya`a^^`]]Z]
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GCGGGGAGTCTTCGAGCTCTCGGACGAAAAGGCAACGAAC
+HWI-EAS443:3:15:104:735#0/1
````Z¥¥`\_]`\_`^`]`XX^^[]¥a^¥]a^[X`¥^^Z[]O]  
@HWI-EAS443:3:15:1058:1833#0/1  
CACGATCGGGTTCGTTGCCTTTTCGTCGAGAGCTCGAAG  
+HWI-EAS443:3:15:1058:1833#0/1  
\_]\_X\_\_aaa\_\_Z¥ZaaU^JVX`¥a[¥R`XXRXU`WR[``  
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+HWI-EAS443:3:15:114:1838#0/1  
a`[ZZST¥¥K¥S^U\_\_`¥a^]]Z¥YQ`¥`¥\_W]¥Q^WW¥  
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+HWI-EAS443:3:15:1359:1118#0/1  
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@HWI-EAS443:3:16:1444:1735#0/1  
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+HWI-EAS443:3:16:1444:1735#0/1  
^¥¥bb`b^\_Y`\_`\_a^`^`b\_¥a\_a]^`\_`a`\_a\_\_Y`\_]ST  
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+HWI-EAS443:3:16:383:71#0/1  
aaU^ZU\_0\_`\_`[\_VZ^`U¥V¥`a`X¥\_`^]YJOX¥a[[T`  
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+HWI-EAS443:3:16:43:489#0/1  
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+HWI-EAS443:3:16:667:1067#0/1  
ab``^WMYVa[V0¥¥```]^SX^`^¥[`[[URU^]¥YY[U  
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+HWI-EAS443:3:17:118:1644#0/1  
aaa^Z^X[[]aa^\_Z]¥^`¥^`XL[H¥YZ^`\_ZZ  
@HWI-EAS443:3:17:232:403#0/1  
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+HWI-EAS443:3:17:232:403#0/1  
aaaa`aaaaaa`^`Xa\_[a\_aR``aa`^^[Z[^Va\_SWY  
@HWI-EAS443:3:17:521:547#0/1  
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+HWI-EAS443:3:17:521:547#0/1  
``\_a^a`\_Z`````¥^`Z¥[``^`Z`X^¥\_K^W]ZW[[B  
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+HWI-EAS443:3:20:1105:742#0/1  
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abbbba`aaabaaaabb`\_abaabbaaaaX]aa^\_aa`  
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CTCTCGGACGAAAAGGCAACGAACCCGATCGTGCCTTCCT  
+HWI-EAS443:3:21:1045:409#0/1  
aba`aab\_bb`bbbababbaaaa`\_Zb```\_`Va\_\_`]¥¥¥  
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+HWI-EAS443:3:21:1077:1484#0/1  
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+HWI-EAS443:3:21:1183:201#0/1  
a]YQ¥`¥]\_\_^aW¥U^S^W\_]\_W¥ST¥^W¥SW^SW¥YMMW  
@HWI-EAS443:3:21:377:589#0/1  
GGGCGGGGAGTCTTCGAGCTCTCGGACGAAAAGGCAACGA  
+HWI-EAS443:3:21:377:589#0/1  
\_V^\_\_`¥¥a`[``\_`Xa`\_````^a`¥^^`[]Yaa`¥¥M

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+HWI-EAS443:3:21:400:1632#0/1  
`a`T`¥\_0[[Z`[PV`[¥^X``aVEP]`[ZQFNY¥ZRZBB  
@HWI-EAS443:3:21:793:1022#0/1  
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+HWI-EAS443:3:21:793:1022#0/1  
\_`^S\_T\_¥X``a`aTXV[^\_\_Z\_^T[XZUZ[P\_]¥¥^Z[¥[  
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+HWI-EAS443:3:22:327:128#0/1  
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+HWI-EAS443:3:22:420:491#0/1  
a]ab`a`b\_ba`a`\_SX\_]`^a]RU^V\_aX]Y]]\_`XV^^  
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+HWI-EAS443:3:23:1122:473#0/1  
\_R`aa``\_\_a\_a`\_\_a`\_`^a^`a`R`¥^^`SYTTaV^¥]  
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aabba`aabaaabaaa`a`\_a`a`a`¥Z]`^`\_Wa][U`  
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+HWI-EAS443:3:23:433:396#0/1  
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+HWI-EAS443:3:24:456:318#0/1  
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@HWI-EAS443:3:24:69:1262#0/1  
GACGAAAAGGCAACGAACCCGATCGTGCCTTCCTTTGACA  
+HWI-EAS443:3:24:69:1262#0/1  
aa¥`XVQLU^`XS]SZ¥bYS¥^Z\_[T`WVGV\_NVXYU]¥  
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+HWI-EAS443:3:25:840:409#0/1  
a^\_^\_\_\_\_VT[]Y¥Z[\_P¥[^Z\_^\_XSRSZ\_X\_¥^SNTSY  
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+HWI-EAS443:3:25:857:935#0/1  
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GACGAAAAGGCAACGAACCCGATCGTGCCTTCCTTTGACA  
+HWI-EAS443:3:26:1415:1335#0/1  
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+HWI-EAS443:3:26:471:1218#0/1  
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+HWI-EAS443:3:26:634:1125#0/1  
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+HWI-EAS443:3:26:922:408#0/1  
a`[Y¥\_\_bbaaa`YK\_^]Y`\_[\_`aa\_XULY`^N¥YMH¥  
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+HWI-EAS443:3:27:1459:1285#0/1  
`]^Xa`b^aZ\_`a\_YZa`¥aa`a]]¥\_aXY]¥a^Y^`^U  
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+HWI-EAS443:3:27:1595:259#0/1  
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+HWI-EAS443:3:27:930:1225#0/1  
`aa¥^aa`a`X\_`a`^R`[a\_`^Z\_a^^`a^a`[PYa¥¥  
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+HWI-EAS443:3:28:1143:388#0/1  
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CTCTCGGACGAAAAGGCAACGAACCCGATCGTGCCTTCCT  
+HWI-EAS443:3:29:1118:1251#0/1  
^\_b`]`\_]ba```b`\_\_ba¥`ab]]¥ab]\_]Y\_TPZYT]B

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+HWI-EAS443:3:2:1269:589#0/1  
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+HWI-EAS443:3:2:1304:1355#0/1  
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+HWI-EAS443:3:2:943:1255#0/1  
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+HWI-EAS443:3:30:269:475#0/1  
\_`aaa¥\_aa\_a`aaa`a```\_\_\_¥`^[^``\_¥¥¥¥`U^^a  
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+HWI-EAS443:3:30:353:74#0/1  
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+HWI-EAS443:3:31:614:1299#0/1  
a\_a^`X[¥`aZ`\_`¥```^`]R`^^¥^]Z^Z^Z¥^¥\_R  
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¥aZ[\_a\_aaa¥^```\_`¥`]a^a]^`a¥\_Z\_ZTQUJP¥Q  
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\_`¥¥]`aa\_aa`\_`aa^a^Xa`a``a¥`¥\_`R¥\_J`\_`  
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+HWI-EAS443:3:34:895:652#0/1  
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+HWI-EAS443:3:35:37:596#0/1  
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+HWI-EAS443:3:35:791:1227#0/1  
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+HWI-EAS443:3:36:1274:450#0/1  
a^]RY¥T\_b^`[U¥\_Z[a¥Y^aRZVYZZ\_YXPWQSYRYN[  
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+HWI-EAS443:3:37:1439:403#0/1  
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+HWI-EAS443:3:37:844:1134#0/1  
`a``a\_\_a¥`^^```¥S¥^`[^¥^¥XZFU`RO^XX¥VS  
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+HWI-EAS443:3:42:786:107#0/1  
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@HWI-EAS443:3:48:111:1811#0/1  
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+HWI-EAS443:3:48:111:1811#0/1  
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+HWI-EAS443:3:48:459:1290#0/1  
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+HWI-EAS443:3:48:675:257#0/1  
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abb`baabb`]`\_\_`b^^a^ab\_V¥]aba`]¥\_`^\_X[a\_  
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GTTCGTTGCCTTTTCGTCCGAGAGCTCGAAGACTCCCCGC  
+HWI-EAS443:3:53:223:396#0/1  
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CTCGGACGAAAAGGCAACGAACCCGATCGTGCCTTCCTTT  
+HWI-EAS443:3:53:228:936#0/1  
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+HWI-EAS443:3:53:630:176#0/1  
a¥Wb`U\_b``a^¥ZW\_]VW[¥¥`U^¥`a`¥YSSaTZ[YPM  
@HWI-EAS443:3:54:1469:920#0/1  
GGGGAGTCTTCGAGCTCTCGGACGAAAAGGCAACGAACCC  
+HWI-EAS443:3:54:1469:920#0/1  
[[^\_aabaab```aa`b`ba`bb`a`abaaaaabaaaaXa`  
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+HWI-EAS443:3:54:362:753#0/1  
aba]a^W\_`Y\_S]\_aaa`a¥R]\_^aa]Y]LT]\_QV^^Ua\_  
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+HWI-EAS443:3:54:497:410#0/1  
aaaa`aaaaa¥¥[a]a^a^aa`¥`^^`YY^^^`^]]\_UYU  
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+HWI-EAS443:3:55:1322:1249#0/1  
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+HWI-EAS443:3:55:1326:894#0/1  
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+HWI-EAS443:3:55:135:1647#0/1  
aaa```a`a`aaa`\_aaa\_¥a]^\_¥[YV\_YUSXSSV[VUY  
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aaaaaa`^`a`\_[^`^\_[U`V]\_`^U`[\_\_\_`^\_Q^^VU^^  
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+HWI-EAS443:3:55:739:716#0/1  
a`a\_ab`abbab\_\_]aaa`^`^]^[aaaa\_UX\_X^```QP[  
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+HWI-EAS443:3:55:802:1367#0/1  
aa`\_`\_¥`^```[`a``]^^]^[^X^a]V^[^¥^X]¥]^X[

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+HWI-EAS443:3:56:1391:1217#0/1  
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+HWI-EAS443:3:56:155:309#0/1  
`¥`a`\_`^`\_`a`]`¥]``^¥¥`]^P]]Q^[X¥[Z]X^¥^  
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abaabaaaa`a`a`a`aa\_\_\_aaa¥``¥`¥a¥[`\_\_\_^^  
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GGGGAGTCTTCGAGCTCTCGGACGAAAAGGCAACGAACCC  
+HWI-EAS443:3:57:1286:266#0/1  
a`^`^a^`^`[^`^aY]P]V^`RY^Y¥^Y[]OW`Q]YSBBB  
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+HWI-EAS443:3:57:213:1220#0/1  
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+HWI-EAS443:3:57:316:1737#0/1  
a`\_NOX¥\_¥R[¥T[IY^aVTVZVXOUXX]R¥YQPXQXS[¥  
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+HWI-EAS443:3:57:691:1300#0/1  
`¥`V]a\_aaaaa]Y^][``]Ya^a`^`[^`\_^`U^V]`VY  
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+HWI-EAS443:3:58:1117:147#0/1  
abaR^`aaa^a`\_a`^`\_`a`\_¥a^a`\_¥`[\_a¥¥]\_WSU¥  
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\_``aabb\_baaabba\_bbaZa^``baaaaaaaaa`aaTG  
@HWI-EAS443:3:58:1730:229#0/1  
CGATCGGGTTCGTTGCCTTTTCGTCCGAGAGCTCGAAGAC  
+HWI-EAS443:3:58:1730:229#0/1  
^```¥^baU\_ZT]`ZZ^aa``TX^[Y\_^^^PYY^URPY[  
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+HWI-EAS443:3:59:391:192#0/1  
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+HWI-EAS443:3:60:1041:777#0/1  
aa```VX¥^a`a[`¥`^`¥^]`^`¥Z]ZPZX¥[T¥ZNS¥]P  
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+HWI-EAS443:3:60:1340:1092#0/1  
aW¥b`T`¥^a]a^HY\_]\_¥`aa\_RSZ`¥TT^NXPTXWU]¥  
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+HWI-EAS443:3:61:1412:1647#0/1  
aa\_aa^aa`a[`^U\_`¥`a\_aa\_\_`U¥Ya¥]¥¥RZTTRSR  
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+HWI-EAS443:3:61:1559:1286#0/1  
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+HWI-EAS443:3:62:1281:129#0/1  
aaaa`R^a¥`G\_¥¥¥\_\_aa\_\_¥\_¥¥¥`^\_\_W^^¥WWW¥¥  
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+HWI-EAS443:3:62:734:1890#0/1  
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+HWI-EAS443:3:63:382:533#0/1  
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+HWI-EAS443:3:63:608:1788#0/1  
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+HWI-EAS443:3:64:1336:301#0/1  
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+HWI-EAS443:3:64:1513:649#0/1  
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+HWI-EAS443:3:64:370:1036#0/1  
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+HWI-EAS443:3:65:1498:429#0/1  
aab\_baaaaaaaa`ab\_aaa`¥`a`\_^`^aZ[W\_¥¥`\_  
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a``a`^U¥a```a```^`a``a``` ]`a`\_S\_PW¥\_`a`U]  
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+HWI-EAS443:3:66:1440:1383#0/1  
```a``````^ZZ```Z¥U]Z¥]]Z^` ]T^X¥` ]S]T]^T¥  
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+HWI-EAS443:3:67:1432:1501#0/1
¥¥`^`¥Z_¥ZVZ]_a__[W`¥^[`_]_]a`a¥]V]a``
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+HWI-EAS443:3:67:419:729#0/1
^``aaa`_Z]^`````_UUS]]``^`aa`^^aa¥V_`¥a]X
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+HWI-EAS443:3:68:1233:2006#0/1
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+HWI-EAS443:3:69:1254:70#0/1
a_`_ba_`a_`[a]`]a`[Q[ZVS_^]¥_¥^PLRNHR[_
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+HWI-EAS443:3:69:1280:132#0/1
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@HWI-EAS443:3:69:446:491#0/1
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+HWI-EAS443:3:69:446:491#0/1
`_¥a¥]X_a]^`_ZGwa^]¥[¥]¥`]VW^¥X`]^_S``[
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CACGATCGGGTTCGTTGCCTTTTCGTCGAGAGCTCGAAG
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+HWI-EAS443:3:6:833:155#0/1
]^b¥¥^_XYUab]¥abaa[b[a¥aY]W`aYaVYDP_aY[^
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+HWI-EAS443:3:70:370:1912#0/1
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+HWI-EAS443:3:70:896:201#0/1
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+HWI-EAS443:3:71:1193:1622#0/1
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+HWI-EAS443:3:71:571:156#0/1
¥]aaa[Z¥][`^a^_U__R)`____[[_]a^a^`¥`aWZ_`
@HWI-EAS443:3:72:317:1183#0/1
GAGCTCTCGGACGAAAAGGCAACGAACCCGATCGTGCCTT
+HWI-EAS443:3:72:317:1183#0/1
W`_R_¥`¥`¥a]^]Z0Q`ab`X`[XT`[_LRMX^¥X
@HWI-EAS443:3:72:439:914#0/1
GGGGCGGGGAGTCTTCGAGCTCTCGGACGAAAAGGCAACG
+HWI-EAS443:3:72:439:914#0/1
^`VT¥`^[]SKT`^[P_¥XV¥¥`^`]¥¥`¥^¥QVRS¥_OP
@HWI-EAS443:3:73:1233:398#0/1
GGAGTCTTCGAGCTCTCGGACGAAAAGGCAACGAACCCGA
+HWI-EAS443:3:73:1233:398#0/1
_XXVT`R_TOT[_`_YWU¥J00`_^_[S¥^U_Z^BBBBB
@HWI-EAS443:3:73:240:862#0/1
GGAGTCTTCGAGCTCTCGGACGAAAAGGCAACGAACCCGA
+HWI-EAS443:3:73:240:862#0/1
aaaaab^^baaaaab`abaaaa]a`QY[_W_aaa^a`a`Z
@HWI-EAS443:3:73:283:1275#0/1
AGCTCTCGGACGAAAAGGCAACGAACCCGATCGTGCCTTC
+HWI-EAS443:3:73:283:1275#0/1
aXa_a_]_]_^]]XY^`^Uaaaa^¥^a_`_[W^ZU_[VRYU

@HWI-EAS443:3:74:1518:297#0/1
GGCGGGGAGTCTTCGAGCTCTCGGACGAAAAGGCAACGAA
+HWI-EAS443:3:74:1518:297#0/1
Z`]a¥T¥X_ZJ]]X^YαXP^]P^^PU`Y^αW]_UQ`VBBB
@HWI-EAS443:3:74:711:1460#0/1
GCGGGGAGTCTTCGAGCTCTCGGACGAAAAGGCAACGAAC
+HWI-EAS443:3:74:711:1460#0/1
`aa[_¥¥_Xaaaa^`_`Xa_a`¥``_X¥`[aa`aaa¥[`]
@HWI-EAS443:3:74:805:1472#0/1
CTTCGAGCTCTCGGACGAAAAGGCAACGAACCCGATCGTG
+HWI-EAS443:3:74:805:1472#0/1
aa_``[¥__^`[^_a`¥_]^X^¥¥_aa^PPP`^_Y¥¥^S^
@HWI-EAS443:3:75:428:27#0/1
GCTCTCGGACGAAAAGGCAACGAACCCGATCGTGCCTTCC
+HWI-EAS443:3:75:428:27#0/1
]YO]¥`[_QS[YR[[_`X_`^Y00ZKVT]LJV¥[YJWYNEH
@HWI-EAS443:3:75:658:974#0/1
GCGGGGAGTCTTCGAGCTCTCGGACGAAAAGGCAACGAAC
+HWI-EAS443:3:75:658:974#0/1
_Z¥YMLMZ_Z]ZR¥LMXT¥αXUV¥PRJTRWQPOQVE¥¥XB
@HWI-EAS443:3:75:698:457#0/1
GGGAGTCTTCGAGCTCTCGGACGAAAAGGCAACGAACCCG
+HWI-EAS443:3:75:698:457#0/1
aaa`a`aabbaa``ZbbabaXN`a]Saaa_`aa`a``_Z`
@HWI-EAS443:3:75:79:501#0/1
TACTCATGTCAAAGGAAGGCACGATCGGGTTCGTTGCCTT
+HWI-EAS443:3:75:79:501#0/1
aa`X_b`b`b^¥R`_]a__aaaaZ_`_^`SYU_G¥_N[^_
@HWI-EAS443:3:76:1118:1399#0/1
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+HWI-EAS443:3:76:1118:1399#0/1
aa_]Y¥αYZ```^UQUYP`UP^¥^¥Y¥TOXPUP¥^WUU^W
@HWI-EAS443:3:76:1360:1609#0/1
GAGTCTTCGAGCTCTCGGACGAAAAGGCAACGAACCCGAT
+HWI-EAS443:3:76:1360:1609#0/1
`[LY`a^`ba][¥¥¥Zaaa_a____`UV_`^`S^_```VSXRS
@HWI-EAS443:3:77:204:195#0/1
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+HWI-EAS443:3:77:204:195#0/1
α`^`^`SPRZRUZTTZRXTTRSRYTRRRTRRSRRTTURTTT
@HWI-EAS443:3:77:223:1693#0/1
GTTCGTTGCCTTTTCGTCCGAGAGCTCGAAGACTCCCCGC
+HWI-EAS443:3:77:223:1693#0/1
T^ZQQ¥baT]W[bWG_b^]aa`_T¥_¥[U[aYa_``¥`
@HWI-EAS443:3:77:362:288#0/1
ATTCCAACCTGAATGATGCCACATATCAGAGAACAAGAGC
+HWI-EAS443:3:77:362:288#0/1
^[¥aa)``baaab``aa__aa]`a_`[Z__`^^`]]^__
@HWI-EAS443:3:77:421:439#0/1
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+HWI-EAS443:3:77:421:439#0/1
`[Z`a`Q¥¥X^RR^]aXZ^¥`N¥T]RS^0`¥¥KYSYZRN
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CTTGTCTCTGATATGTGGCATCATTGAGTTGGAATGCC
+HWI-EAS443:3:77:653:1257#0/1
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@HWI-EAS443:3:77:693:814#0/1
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+HWI-EAS443:3:77:693:814#0/1
a`aaaa__a_V¥]¥_a_a`aVa`¥^)``a^¥]XX[_XPU
@HWI-EAS443:3:78:470:533#0/1
TACTCATGTCAAAGGAAGGCACGATCGGGTTCGTTGCCTT
+HWI-EAS443:3:78:470:533#0/1
aabbabbbbaabbb^Y¥b`aa_aaaYZ`a_Z[_aZ```_Xa
@HWI-EAS443:3:78:987:2031#0/1
CGGGGAGTCTTCGAGCTCTCGGACGAAAAGGCAACGAACC
+HWI-EAS443:3:78:987:2031#0/1
`aaJ^aa`aaaaaa_`_aa`a_aVa`a^`a`aa[a`¥_
@HWI-EAS443:3:79:1050:354#0/1
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+HWI-EAS443:3:79:1050:354#0/1
`b`Z¥Ta^`a`a¥¥N```^aa_Z]b_abVYa`VU^Ka_`a
@HWI-EAS443:3:80:1564:753#0/1
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+HWI-EAS443:3:80:1564:753#0/1
aaabbbbbbbaabbb`aaaba]babaa`b_¥aab
@HWI-EAS443:3:80:406:542#0/1
AGCTCTCGGACGAAAAGGCAACGAACCCGATCGTGCCTTC
+HWI-EAS443:3:80:406:542#0/1
abbaab``aaaa```]aaaa¥_T^[\`a``^aaV]T[U^^
@HWI-EAS443:3:80:741:1207#0/1
GGGGCGGGGAGTCTTCGAGCTCTCGGACGAAAAGGCAACG
+HWI-EAS443:3:80:741:1207#0/1
a`a____a`a¥``[\`¥`a`^¥`^^]]Z¥¥¥`N¥Z¥_X^
@HWI-EAS443:3:80:752:23#0/1
AAGGCAACGAACCCGATCGTGCCTTCCTTTGACATGAGTA
+HWI-EAS443:3:80:752:23#0/1
^`a__[_ZaaaZ]T_`a^`J_[]QOGF`a^VHDDZ¥DZKU
@HWI-EAS443:3:81:334:364#0/1
AGCTCTCGGACGAAAAGGCAACGAACCCGATCGTGCCTTC
+HWI-EAS443:3:81:334:364#0/1
aaa``]aaa```^VSWL[_`aa_¥`^YN[YRZVR[WWWVU
@HWI-EAS443:3:82:363:746#0/1
CACGATCGGGTTCGTTGCCTTTTCGTCGAGAGCTCGAAG
+HWI-EAS443:3:82:363:746#0/1
a¥_TT_`¥a`]``VX^``_¥a`a``[\`_0_````^^`VU_
@HWI-EAS443:3:82:896:167#0/1
AAGGAAGGCACGATCGGGTTCGTTGCCTTTTCGTCGAGA
+HWI-EAS443:3:82:896:167#0/1
¥aa`]YZV¥Z__¥[U¥Q¥OTRQ¥Z_aJ¥`¥`UIXMO_PQK

@HWI-EAS443:3:83:1163:283#0/1
GATCGGGTTCGTTGCCTTTTCGTCGAGAGCTCGAAGACT
+HWI-EAS443:3:83:1163:283#0/1
aa_UaaaZaaaZaa_U`a_a`aX^^`¥`T`ZY]a`]^`^Z¥
@HWI-EAS443:3:83:860:1145#0/1
CATTACTCATGTCAAAGGAAGGCACGATCGGGTTCGTTGC
+HWI-EAS443:3:83:860:1145#0/1
a_aZZ^^aaa_Q]``^a[a]__aa]U]`__XX`_`____
@HWI-EAS443:3:83:880:1932#0/1
CTCGGACGAAAAGGCAACGAACCCGATCGTGCCTTCCTTT
+HWI-EAS443:3:83:880:1932#0/1
abYI_aZZ`abbaa`]bb]b_¥TRRV_a][XaaPQXa`_a
@HWI-EAS443:3:84:1337:679#0/1
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+HWI-EAS443:3:84:1337:679#0/1
_QXXa^¥T]GPZ`][YX]RX¥Z`^^¥[¥¥^^¥R¥T]¥RRXT
@HWI-EAS443:3:84:326:1384#0/1
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+HWI-EAS443:3:84:326:1384#0/1
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@HWI-EAS443:3:84:846:849#0/1
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+HWI-EAS443:3:84:846:849#0/1
``_W_V]SYZZa¥`¥¥W^]Z_^]_VWX^]¥YS¥Q¥R]`¥X
@HWI-EAS443:3:85:355:1405#0/1
CTCATGTCAAAGGAAGGCACGATCGGGTTCGTTGCCTTTT
+HWI-EAS443:3:85:355:1405#0/1
aa¥¥]XU[_W_ZO``[SSX]``]_J^^Ua^[[UXY^[Y^Z
@HWI-EAS443:3:86:1623:235#0/1
CTCTTGTTCCTGATATGTGGCATTTCAGGTTGGAATG
+HWI-EAS443:3:86:1623:235#0/1
abXbbbbbaa^aZ`babbbZO_bb`bbb`babbb¥^a¥b_
@HWI-EAS443:3:86:207:872#0/1
CTCGGACGAAAAGGCAACGAACCCGATCGTGCCTTCCTTT
+HWI-EAS443:3:86:207:872#0/1
aZb_[]a``¥U`aa_ab]]aZ¥]YWY^`^SXZUVP]SSTZ
@HWI-EAS443:3:86:548:565#0/1
GGCGGGGAGTCTTCGAGCTCTCGGACGAAAAGGCAACGAA
+HWI-EAS443:3:86:548:565#0/1
ZZ]V]_Z_``a`aaZRW_]aaaa__^^`_^`aa`a0`a^
@HWI-EAS443:3:86:748:674#0/1
TCTCGGACGAAAAGGCAACGAACCCGATCGTGCCTTCCTT
+HWI-EAS443:3:86:748:674#0/1
aa`abbbbaa^aaa_¥Z`bXV[]¥`^`V]_`X`a^_YF[^
@HWI-EAS443:3:87:593:1356#0/1
GGGGAGTCTTCGAGCTCTCGGACGAAAAGGCAACGAACCC
+HWI-EAS443:3:87:593:1356#0/1
``_`a`aaaaaaaaaaaaaaaaaaaa`aaa`a`a`aaaa¥^
@HWI-EAS443:3:87:681:528#0/1
GAGCTCTCGGACGAAAAGGCAACGAACCCGATCGTGCCTT

+HWI-EAS443:3:87:681:528#0/1
`bbbbba`^ababababaaabbaa_baaabaaaa_a`Z[a
@HWI-EAS443:3:88:420:1328#0/1
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+HWI-EAS443:3:88:420:1328#0/1
ZVW¥VXHPZ`]¥W^Z]ZZ¥aUVRKY[`NR[¥RXO``RNZB
@HWI-EAS443:3:89:144:1188#0/1
CGAAAAGGCAACGAACCCGATCGTGCCTTCCTTTGACATG
+HWI-EAS443:3:89:144:1188#0/1
aaaab``]aabaaaa`a`]`__T^]¥^`_W¥[`^XY]_^
@HWI-EAS443:3:89:64:1293#0/1
CTCTCGGACGAAAAGGCAACGAACCCGATCGTGCCTTCCT
+HWI-EAS443:3:89:64:1293#0/1
aaa]a`_X_aXSX]¥[_`]¥`T[O^]PTV[ZWZSUSTTYU
@HWI-EAS443:3:8:1268:266#0/1
TTCGAGCTCTCGACGAAAAGGCAACGAACCCGATCGTGC
+HWI-EAS443:3:8:1268:266#0/1
aa_a_a_a_a¥`a`^a__[_]^`_WXZ_VUXWUWUWS]W
@HWI-EAS443:3:8:298:423#0/1
GGGGAGTCTTCGAGCTCTCGACGAAAAGGCAACGAACCC
+HWI-EAS443:3:8:298:423#0/1
`^`¥`_X[_`a¥Z]RUZY]^Z¥^RZPZWZ¥`¥¥Z]XRNZ
@HWI-EAS443:3:8:458:1648#0/1
GAGCTCTCGACGAAAAGGCAACGAACCCGATCGTGCCTT
+HWI-EAS443:3:8:458:1648#0/1
¥¥Tb^bba^][a[___baaR`W^`_U[aZY`^]UI¥LZPYXB
@HWI-EAS443:3:8:801:992#0/1
GGCGGGGAGTCTTCGAGCTCTCGACGAAAAGGCAACGAA
+HWI-EAS443:3:8:801:992#0/1
`^^`¥]^`PVV¥XURX¥Z¥Z^]]VEXU¥W¥WPR[ZRRBB
@HWI-EAS443:3:8:864:1409#0/1
CACGATCGGGTTCGTTGCCTTTTCGTCGAGAGCTCGAAG
+HWI-EAS443:3:8:864:1409#0/1
abab`b^^`_Ya`^[a```aaa]¥aY^`^^a^_¥_]a``V
@HWI-EAS443:3:90:1066:912#0/1
GGCGGGGAGTCTTCGAGCTCTCGACGAAAAGGCAACGAA
+HWI-EAS443:3:90:1066:912#0/1
_¥^a`]YSLU¥KXP]KUJMXK¥]¥KS¥XX]]Z]BBBBBBB
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+HWI-EAS443:3:90:1193:1076#0/1
a_aaabba^aa`b_aaY^XZ][_P]¥^^YS`a^aU^¥WU
@HWI-EAS443:3:90:1494:1059#0/1
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+HWI-EAS443:3:90:1494:1059#0/1
abbbbbbaaaabaabaabbabbbbaaaba^`aabTaZ`¥U_
@HWI-EAS443:3:90:1523:810#0/1
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+HWI-EAS443:3:90:1523:810#0/1
XQW]]HWWWZZ^`[_]J¥^bbbMbaaaabaa^`]ba[UJT`

+HWI-EAS443:3:95:1147:867#0/1
a`¥Saaa]b`Wl¥Vaba`_^]b¥X]aa`]X]a_]QOZX]Z
@HWI-EAS443:3:95:1191:1547#0/1
ATGATTTGGCATTCCAACCTGAATGATGCCACATATCAGA
+HWI-EAS443:3:95:1191:1547#0/1
ab`XUTbbaKaa^^0`TU^¥]a][`^VaQQTR`_Xaaaa`
@HWI-EAS443:3:95:1578:1558#0/1
GGACGAAAAGGCAACGAACCCGATCGTGCCTTCCTTTGAC
+HWI-EAS443:3:95:1578:1558#0/1
aaXTa`____[`U]¥]a`_¥]Ha[^_[U]VT`^X____R_U]
@HWI-EAS443:3:96:999:828#0/1
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+HWI-EAS443:3:96:999:828#0/1
a^bbb`bb`bb^`b]PaZ_[W^a¥]abbb____ab_aNaaa
@HWI-EAS443:3:97:659:1808#0/1
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+HWI-EAS443:3:97:659:1808#0/1
`_bb^]`baTabbaaabbaabbb_b]b``abaaabaaab`
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GGCGGGGAGTCTTCGAGCTCTCGACGAAAAGGCAACGAA
+HWI-EAS443:3:98:888:179#0/1
_a]_a^^`¥^¥^_G¥Ua]^^^Q¥`WSNNP¥¥NTRTZBBBB
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+HWI-EAS443:3:9:182:1258#0/1
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+HWI-EAS443:3:9:223:125#0/1
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@HWI-EAS443:3:34:452:1009#0/1
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+HWI-EAS443:3:34:452:1009#0/1
[¥Z_T`__a_0][MVUZXWVQa_]¥YZ¥X`]ZSLV^BBBB
@HWI-EAS443:3:52:1022:1323#0/1
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+HWI-EAS443:3:52:1022:1323#0/1
`baa_abbbaaaaa`ab^`aa`a`a`a`__`a`aaa`
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GACAAAATGACCATCGTCAACATCCAAAGCACTCTGCNTT
+HWI-EAS443:3:78:1226:1702#0/1
ZXbbb`Sab¥H^a]Vb_¥b¥`ab^^YH`UF`a]b`XTDJU
@HWI-EAS443:3:87:232:2006#0/1
CAGGAACAGCAGAGTGCTGTGGATGGTGACGATGGTCCTT
+HWI-EAS443:3:87:232:2006#0/1
`Y_a[___baaa[]ZFT_]a[aT`BBBBBBBBBBBBBBBB
@HWI-EAS443:3:93:687:502#0/1
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+HWI-EAS443:3:93:687:502#0/1
a`aaa^aaa^aa`a]^`a¥^]U`_[_Y[`U¥^`_aZ`W^`

@HWI-EAS443:3:77:75:1841#0/1
TTTTTCAAATGTATTTATCGTCGCTTAAATACGGTTTGA
+HWI-EAS443:3:77:75:1841#0/1
aaa`a_aaaa¥ZU`_aaa_aa]aaa]_``¥Z]]V_YL^
@HWI-EAS443:3:49:381:766#0/1
CAGGGGGCCTGCAAATTTCAAGAAGGTCATCTTTCAGA
+HWI-EAS443:3:49:381:766#0/1
abbbbaabbaababaabbbbabaaaaaaaaababb^abbb
@HWI-EAS443:3:38:1063:1601#0/1
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+HWI-EAS443:3:38:1063:1601#0/1
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CACCTCATGGACTGAGGCACTCCTTCCGTAGAAGGCCCT
+HWI-EAS443:3:7:1123:2019#0/1
``T_]_a^^`a^ZPG^NUW`_]¥S_^YKVN]_V¥Q[BBBB
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+HWI-EAS443:3:29:1303:951#0/1
a`Jbabaaba_a`^a¥¥a]R]U`]LVKKV¥]_UNRDR_B
@HWI-EAS443:3:30:1787:518#0/1
AATCAGGCATGAAAACAGAATGGTGCTGGCTAGCAATAAG
+HWI-EAS443:3:30:1787:518#0/1
aa`L^`W`[aaaa_`^`aaaYa^]_]``ZWS__GWGZKHO
@HWI-EAS443:3:31:1610:1723#0/1
GAAAGATGACCTTCTTAAAAATTTGCAGGCCTACCCGCCG
+HWI-EAS443:3:31:1610:1723#0/1
`aa`aa`aa__aa`aa_aaa^_aa`aa`^^_aa_VWa_]B
@HWI-EAS443:3:63:1674:268#0/1
CTGATGGGAATTTTAGGATTTGTGTTACGCTCACCGTGC
+HWI-EAS443:3:63:1674:268#0/1
a¥`ZX¥`¥X^^_a^]a```ZZ`T`]]VWGWWBBBBBBBBB
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GAAAAGAGGGCCTTCTACGGANGGAGTGCCTGAGTCCACT
+HWI-EAS443:3:7:1191:956#0/1
¥aabbbabba`]aaVaaKD¥_^]_P¥P`W`XUUM]S
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+HWI-EAS443:3:18:397:451#0/1
aabbbba_bbbb`baa`]FZPRSWJO[aXOFV___FQUY_0
@HWI-EAS443:3:27:1531:92#0/1
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+HWI-EAS443:3:27:1531:92#0/1
UbbU_a[[a`bbba]JZUab`a^^SaZ`^HHPH^_ZaQN
@HWI-EAS443:3:39:682:427#0/1
GGGAATTTTAGGATTTGGGTTACGCTCACCGTGCCAGG
+HWI-EAS443:3:39:682:427#0/1
a][NU]aaT`a`QXPUZGSNKY^YVZQTGSSUM^_UQFWG
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+HWI-EAS443:3:59:43:1736#0/1
GZ__abbaabb`¥`b]^X¥ab` `abbXT¥a_Gbb`WR_aG
@HWI-EAS443:3:20:804:1817#0/1
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+HWI-EAS443:3:20:804:1817#0/1
Zb`_]_^`]`¥`aTZY¥¥`aYP_SPUBBBBBBBBBBBB
@HWI-EAS443:3:24:1063:1385#0/1
CTCCCTCATGGACTCAGGCACTCCTTCCGTAGAAGACCC
+HWI-EAS443:3:24:1063:1385#0/1
Zbbb__bbba_Y` `bbba`aa[ba_baaabab_ab`^0`X
@HWI-EAS443:3:2:1509:765#0/1
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+HWI-EAS443:3:2:1509:765#0/1
a^_UU[^¥VKQ_Z[^X^WN]_V_RYQ^XQBBBBBBBBBB
@HWI-EAS443:3:33:1450:848#0/1
CCCCTCATGGACTCAGGCACTCCTTCCGTAGAAGGCCGTC
+HWI-EAS443:3:33:1450:848#0/1
Q__U_`W__WYY__¥V^W_Z^XWUBBBBBBBBBBBBBBB
@HWI-EAS443:3:35:483:1304#0/1
CCTTCTGCCTGTTCACCTCGATCCAGCCATCTGTTCCATAG
+HWI-EAS443:3:35:483:1304#0/1
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@HWI-EAS443:3:40:335:601#0/1
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+HWI-EAS443:3:40:335:601#0/1
Z[]^¥Uaaaa¥X_X[```a`YLR^`^S[^XWBBBBBBBBBB
@HWI-EAS443:3:59:1236:1422#0/1
CAGGCACTCCTTCCGTAGAAGGCCCTCTTTCAAAGTGT
+HWI-EAS443:3:59:1236:1422#0/1
aa_Z¥babaaba^_b]a`aaa__Y_aabbbba]aaWFR`]_
@HWI-EAS443:3:63:838:174#0/1
CGGGCCTTCTACGGAAGGAGTGCCTGAGTCCATGAGGNAA
+HWI-EAS443:3:63:838:174#0/1
abbbba`aaa`aa`^^_aa`a¥a[```¥X_V_¥¥_ZT][DP^
@HWI-EAS443:3:76:501:246#0/1
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+HWI-EAS443:3:76:501:246#0/1
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@HWI-EAS443:3:79:602:1624#0/1
CTAAGGGAATTTTAGGATTTGTGTTACGCTCACCGCGCC
+HWI-EAS443:3:79:602:1624#0/1
ab¥I¥¥_`_`aXXa`^aa`TZS¥S_`0[¥]GY]]Q]G[PP
@HWI-EAS443:3:90:546:1254#0/1
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+HWI-EAS443:3:90:546:1254#0/1
```b\_baaabaaa`]a\_a¥]\_a`a[baa^`\_a¥[^Y`\_`a  
@HWI-EAS443:3:91:978:469#0/1  
TTAGGATTTGTGTTACGCTCACCGTGCCAGTGAGGGAG  
+HWI-EAS443:3:91:978:469#0/1  
[a\_Tab\_`b`\_V`a¥b]^W`Ka^RZSb\_`VT\_R]YWEUVa



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+HWI-EAS443:3:20:656:13#0/1  
¥¥Y\_¥[aa\_^¥`b^TSYX¥T¥¥VRQYIYUTSXPXRDDL  
@HWI-EAS443:3:100:29:1239#0/1  
AAATGACCATCGTCAACATCCAGAGCACTCTGCTGTTCCCT  
+HWI-EAS443:3:100:29:1239#0/1  
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+HWI-EAS443:3:12:585:1127#0/1  
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+HWI-EAS443:3:14:639:134#0/1  
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+HWI-EAS443:3:14:846:1418#0/1  
^[\_b```^^\_a[`aa`TUVZZ¥HY\_\_a]\_^V[UY[UNRKT  
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+HWI-EAS443:3:15:411:531#0/1  
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+HWI-EAS443:3:16:1596:597#0/1  
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@HWI-EAS443:3:18:1141:548#0/1  
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aba\_aaaa\_\_ba\_aa`\_`W\_¥`aa``VV\_^\_^¥\_aY¥`\_W  
@HWI-EAS443:3:21:824:267#0/1  
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+HWI-EAS443:3:21:824:267#0/1  
¥RR¥a^NYOX¥]S]¥LP]\_[UZ[UTO^SNX\_UVTDQSSR  
@HWI-EAS443:3:23:1776:1153#0/1  
TGCAAATTTTCAAGAAGGTCATCTTTCAGACGAGCACTGG  
+HWI-EAS443:3:23:1776:1153#0/1  
]\_HVXGWa`aXa\_a\_]aba\_\_\_0\_[aZa¥aTG]YLZQ```^  
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TCACGCTCACCGCGCCAGTGAGCGAGGACTGCAGCGTAG  
+HWI-EAS443:3:27:721:997#0/1  
Z^Z\_T\_PY\_aaXLHZ[¥`[L[]UQVT[`YWMWS[ZRTBBB  
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+HWI-EAS443:3:28:1317:524#0/1  
`VY¥YZabbb`[a`[a\_]aTH\_aR\_ZS[¥U`U`W\_Q`^  
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@HWI-EAS443:3:30:1509:1696#0/1  
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+HWI-EAS443:3:30:1509:1696#0/1  
aZWRD[\_a[L]aYPUVWXR^¥Y`W]¥\_WZ¥TV^W¥¥WYV  
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+HWI-EAS443:3:30:67:1827#0/1  
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S`R`^F^O[\_X\_ZS¥\_Z\_[WW`\_NM]¥Za\_ZXaa]]ZW[  
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W`¥YQQ\_b`¥¥QV\_¥aa`¥\_baa`\_bba\_¥Z\_J^]¥\_^R[  
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+HWI-EAS443:3:33:511:482#0/1  
a`baab\_ZTWa\_\_^UY`¥\_\_X¥^WUTINGWUSW¥WUUPWU  
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+HWI-EAS443:3:36:41:404#0/1  
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+HWI-EAS443:3:37:749:1700#0/1  
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@HWI-EAS443:3:3:880:444#0/1  
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+HWI-EAS443:3:3:880:444#0/1  
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Zb¥]\_ZZST\_aYT^R\_ZT^`^RS]PFXaSXIHKYXH^TNSB  
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AGAAGGTCATCTTTCAGACCAGCACTGGGGCTAGGATGAG  
+HWI-EAS443:3:46:1347:1137#0/1  
^b[bb]\_¥¥bb[Y\_`a]ITSba\_[J\_abb`\_a[a¥HVaz[  
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+HWI-EAS443:3:49:1041:1161#0/1  
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+HWI-EAS443:3:4:107:1667#0/1  
aa¥\_XZ`Xaab^FTZN`T[[¥0]QU¥]b[]`S]U\_aaBB  
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+HWI-EAS443:3:4:1511:449#0/1  
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ab]][`ZV[^S]``\_TX^\_Y^SDRKT^PP^URHDP¥M\_BB  
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+HWI-EAS443:3:53:1303:520#0/1  
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+HWI-EAS443:3:55:1791:1466#0/1  
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+HWI-EAS443:3:56:12:391#0/1  
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@HWI-EAS443:3:56:1617:267#0/1  
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+HWI-EAS443:3:56:1617:267#0/1  
Wa`baba`U[a¥TUH^a`NZ]YX¥K[XSZ^\_[UDK^[ZHJ  
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+HWI-EAS443:3:59:1521:394#0/1  
a\_\_a¥``aa\_`U^`\_Y\_MS¥^G`W\_`¥S¥VBBBBBBBBB  
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+HWI-EAS443:3:61:795:1005#0/1  
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+HWI-EAS443:3:63:1765:1947#0/1  
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+HWI-EAS443:3:69:1486:935#0/1  
a^a^aba]\_baaaaaZaaYab¥` [¥b¥` a^¥]a^]\_a¥^W  
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+HWI-EAS443:3:69:1721:901#0/1  
aaaaabbbbaabbbbbb\_P]` `aaaaabaaaaaaaa\_`` `a  
@HWI-EAS443:3:69:466:462#0/1  
CTGACTAAGGGAATTTTAGGATTTGGGTTCCACGCTCACCG  
+HWI-EAS443:3:69:466:462#0/1  
`\_U[`\_]¥a¥IY[Y]b]a^[`MYaZG\_[\_YVL]`U]SR[]  
@HWI-EAS443:3:73:1421:1403#0/1  
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+HWI-EAS443:3:73:1421:1403#0/1  
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+HWI-EAS443:3:77:1310:984#0/1  
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aa\_a^¥aaa^\_a`^Y`\_W`\_]`W`WUU^W^¥U¥UUUY¥  
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+HWI-EAS443:3:83:1303:1066#0/1  
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abb`^``VI^a`\_[aaa\_aa`Z`\_W^Z\_\_QP[`V^W  
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+HWI-EAS443:3:87:1690:500#0/1  
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+HWI-EAS443:3:89:1285:1104#0/1  
`bZ`[^b`¥aU`\_]\_UW\_]^[`[D^b\_aa\_¥\_`G^aVXLK  
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+HWI-EAS443:3:89:1361:246#0/1  
XX¥Y\_¥`XbbLUXXUIY^)`b``\_\_\_I\_abFD[¥^`]b^V  
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+HWI-EAS443:3:90:1267:1592#0/1  
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+HWI-EAS443:3:90:326:202#0/1  
U\_X0\_¥\_S\_\_ZX\_[aZPHYaZW\_SS¥¥YU\_¥X\_]aOHT^`  
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+HWI-EAS443:3:91:1743:1556#0/1  
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+HWI-EAS443:3:91:429:54#0/1  
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+HWI-EAS443:3:93:1398:1357#0/1  
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+HWI-EAS443:3:94:1045:1109#0/1  
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+HWI-EAS443:3:97:1382:887#0/1  
aa¥a`b`¥`]`\_aGUa\_ZN\_[\_aa`U^¥\_NNZMR\_]`a^  
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+HWI-EAS443:3:97:1465:156#0/1  
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+HWI-EAS443:3:98:785:1941#0/1  
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+HWI-EAS443:3:21:236:241#0/1  
a`[^a^a`a`V¥\_`]]`\_[[Z[[\_\_\_\_`^\_\_^]]^]S\_  
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+HWI-EAS443:3:46:1137:1603#0/1  
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+HWI-EAS443:3:4:1388:950#0/1  
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+HWI-EAS443:3:50:1096:1702#0/1  
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+HWI-EAS443:3:52:1234:1253#0/1  
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+HWI-EAS443:3:59:1196:454#0/1  
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+HWI-EAS443:3:90:143:1195#0/1  
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@HWI-EAS443:3:28:1338:1285#0/1  
GGACTCAGGCACTCCTTCNGTAGAAGGCCCTCTTTTCAAA  
+HWI-EAS443:3:28:1338:1285#0/1  
\_`aaaa\_aaab`a^`aa^DX]`aa`\_\_`\_[-T\_`^^`\_\_`[

@HWI-EAS443:3:32:1028:208#0/1  
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+HWI-EAS443:3:32:1028:208#0/1  
\_abaa]a]Y^¥]] [[`\_]JPDZZSYQVXT[VLWLXQW[RR  
@HWI-EAS443:3:34:127:171#0/1  
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`aa]`\_`aaa¥\_aXa\_\_^\_a^]\_a¥\_] ^Z^]PDTXZZXZ  
@HWI-EAS443:3:34:512:164#0/1  
CTTCTACGGAAGGAGTGCCTGAGTCCATNAGGGAAGAATA  
+HWI-EAS443:3:34:512:164#0/1  
aZb`UUbbaRSb`[\_L^W^a\_Wa\_aIXWDUT\_\_]a^WVZ\_  
@HWI-EAS443:3:47:889:1165#0/1  
GATTTGTGTNCACGCTCACCGTGCCAGTGAGCGAGGACT  
+HWI-EAS443:3:47:889:1165#0/1  
TTW\_X^]bYDWb\_Z\_RWJRR]VRQLV¥MLYBBBBBBBBBB  
@HWI-EAS443:3:54:668:645#0/1  
GGGCCTTCTNCGGAAGGAGTGCCTGAGTCCATGAGGGAAG  
+HWI-EAS443:3:54:668:645#0/1  
aaaa\_`bbYDVba\_ab`a[aX`]`a`X]a\_a\_V\_a`^] ^  
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+HWI-EAS443:3:69:800:159#0/1  
]]\_¥¥aa^WYD]Z¥W[a\_`]`Yaaaaaa^ [^U[\_¥U\_Y  
@HWI-EAS443:3:72:806:1104#0/1  
GAATTTTGNATTTGTGTTCCAGCTCACCGTGCCAGTGA  
+HWI-EAS443:3:72:806:1104#0/1  
\_\_\_`¥`a`¥D^ab\_`a\_a`aaaa¥`\_a\_[[a\_]^^\_UZ^  
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CGCTCACCGTGNCCAGTGAGCGAGGACTGCAGCGTAGACG  
+HWI-EAS443:3:75:1095:862#0/1  
`ab^Q¥aaa\_RD^a`bYab\_aaab`\_^ab^aa`b^aa`Mb  
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GTCAACATCCACAGCACTCTGCTGTTCCCTGNTGATATTCT  
+HWI-EAS443:3:76:1146:1110#0/1  
a\_a`\_X\_\_\_\_^`^`Z`Z^[^\_\_\_\_[W\_W¥`ZDU\_^^W\_¥UY  
@HWI-EAS443:3:92:1301:1292#0/1  
TGCAAANTTTCAAGAAGGTCATCTTTTCAGACCAGCACTGG  
+HWI-EAS443:3:92:1301:1292#0/1  
aaaabWD^aa]aaa`\_`a\_aaa\_aaa¥a`YVa^`\_V\_`]  
@HWI-EAS443:3:97:699:1642#0/1  
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+HWI-EAS443:3:97:699:1642#0/1  
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+HWI-EAS443:3:13:1092:946#0/1  
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+HWI-EAS443:3:21:1222:38#0/1  
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@HWI-EAS443:3:21:840:1811#0/1  
TGCAAATTTTCAAGAAGGTCATCTTTCAGACCAGCACTTA  
+HWI-EAS443:3:21:840:1811#0/1  
^`aS^aa[]^a^YH[PL[WS\_[Y]^TX¥¥`¥a`[\_TX  
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+HWI-EAS443:3:22:1780:1108#0/1  
VD¥a`\_ab\_`Za`\_]`Z]]XQXUW`X`XSMMXUWVSP^¥]B  
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aM`U[aaaa\_aa``a¥a`aa0a\_`Y`¥\_\_`\_]`^YUVS¥\_  
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GTCGGTCTCCATTCCCATTAGGGCATTGACAAAGA  
+HWI-EAS443:3:39:1280:152#0/1  
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+HWI-EAS443:3:3:766:68#0/1  
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UD]\_`bbaaaaab`^^aba^\_\_]^\_\_`a^[\_U`a\_TZ[K  
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+HWI-EAS443:3:46:763:192#0/1  
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+HWI-EAS443:3:52:326:1702#0/1  
`a\_aa¥\_XZ\_W]\_aaaZ¥¥^`a¥XNY`aW^X`Z[\_RFYY  
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GGAATTTTAGGATTTGTGTTACGCTCACCGTGCCAGAG  
+HWI-EAS443:3:56:998:1024#0/1  
aa`]abab\_a^T^aaa¥``\_a`¥\_\_TUPPZZR[NBBBBBB  
@HWI-EAS443:3:6:1402:339#0/1  
CTCAGGCACTCCTTCCGTAGAAGGCCCTTTTCAAACAG  
+HWI-EAS443:3:6:1402:339#0/1  
`babb\_bbbbaabb``ababbab`a`abababbaababGa  
@HWI-EAS443:3:6:273:342#0/1  
ACGGCCCTTCTACGGAAGGAGTGCCCTGAGTCCATGAGGGA  
+HWI-EAS443:3:6:273:342#0/1  
a[\_a\_V\_^\_Q\_Z[\_^T¥\_]U¥U[WQU¥W\_HUWU¥¥WB BBB  
@HWI-EAS443:3:70:1277:114#0/1  
AGGCTATGGAACAGATGGCTGGATCGAGTGAACAGGCAAC  
+HWI-EAS443:3:70:1277:114#0/1  
`\_a\_aaabba``aaaa`aQ]`aIYHXP\_]aaZ]YS\_]aG



@HWI-EAS443:3:79:509:1902#0/1  
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+HWI-EAS443:3:79:509:1902#0/1  
aZ]]`\_Z^aa]U`a]Ya]WJGWS[ULU\_¥N¥]T^MXG^YP  
@HWI-EAS443:3:85:846:1533#0/1  
ATTTGTGTTACGCTCACCGTGCCAGTGAGCGAGGACAG  
+HWI-EAS443:3:85:846:1533#0/1  
aaa`]]`\_]T]baVaM¥^V[^]a[[ZXVXY^¥[^^]WZRDR  
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GTATCCACAATATCAGGTGCAAGATCCCAATGATATTTGC  
+HWI-EAS443:3:89:1277:1490#0/1  
a^aY`ab^^¥aaa`a\_bZ``aaa`a[RX\_a\_aa\_``aZ`N  
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+HWI-EAS443:3:95:1399:1724#0/1  
ab]b`Wbbb``ab`abbbbbbabbbbab`aaabba\_a^  
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+HWI-EAS443:3:13:796:957#0/1  
]aL^¥]]``b`abbaabaX`V`[VX[V\_YS`\_[XY][X^\_  
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+HWI-EAS443:3:17:875:296#0/1  
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+HWI-EAS443:3:18:215:50#0/1  
abbababbbUa^bbabbbbab`bba``XZ\_aaaa`abaa  
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+HWI-EAS443:3:19:899:1012#0/1  
a¥W]^¥X`]ZPPQ`YMGS]]`\_[X[[ZWUPUSSQTRUYUV  
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+HWI-EAS443:3:21:419:1045#0/1  
¥Xaa0S\_VTX[ZHVTaaWXTVVOP¥JFW]]`X[HXaZWB  
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+HWI-EAS443:3:24:1148:1154#0/1  
`^`aa]bbbb`abbaaa`Xa][ab¥[X[Ua`Y]]Z^^\_]X  
@HWI-EAS443:3:25:1214:1564#0/1  
GAAAATGACCATCGTCAACATCCACAGCACTCTGCTGTTC  
+HWI-EAS443:3:25:1214:1564#0/1  
L\_Zaba]a]bbbab]]`¥¥N\_¥]¥aZbaaV`¥GXbaa^PaX  
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CGAGGGCCTTCTACGGAAGGAGTGCCTGAGTCCATGAGGG  
+HWI-EAS443:3:33:796:912#0/1  
aaaaaaaaaaaa`aaaa\_a`¥`\_\_`\_¥\_W¥S¥\_`¥[\_]  
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+HWI-EAS443:3:35:186:1538#0/1  
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CTAAGGGAATTTTAGGATTTGTGTTACGCTCACCGTGCG  
+HWI-EAS443:3:38:1261:275#0/1  
^Z¥b``Z]\_\_`aa`b`^Wa^X¥ZU`WWPYS`¥QPS¥aSD  
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+HWI-EAS443:3:3:1306:1952#0/1  
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+HWI-EAS443:3:40:688:1085#0/1  
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+HWI-EAS443:3:42:202:369#0/1  
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+HWI-EAS443:3:42:442:1891#0/1  
`\_] [aabaa`baa`b`KW\_`aT`a`\_¥]V``\_`FZZa  
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TGCGTCTACGCTGCAGTCCCTCGCTCACTGGGCACGGTGAG  
+HWI-EAS443:3:46:72:358#0/1  
a`a``aaa¥]\_\_\_[]a`^Z\_aa\_]¥V\_]\_\_\_]U[\_W\_[]  
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ACTTCCCTCATGGACTCAGGCACTCCTTCCGTAGAAGGCC  
+HWI-EAS443:3:47:1240:1687#0/1  
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aaaa^^a^¥\_^^a`W¥a`W\_V\_TTW[RZWWWTWZS¥U^UU  
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+HWI-EAS443:3:50:93:1224#0/1  
a\_Zaaaa\_]`ab\_\_b`Z¥¥\_WW`a[\_\_\_T¥\_aa[aaaQ[\_  
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+HWI-EAS443:3:52:1743:442#0/1  
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+HWI-EAS443:3:54:1193:1089#0/1  
Y¥Tabba]b``\_bb\_b\_]a^\_¥^b`^Zb]]Wababa¥X`S

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aabbZ]baa^[^ba^a\_¥]HaaaZ[\_aXK¥`a`VM`WM]  
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+HWI-EAS443:3:63:1280:1279#0/1  
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GAGGCACTCCTTCCGTAGAAGGCCCTCTTTTCAAACCGTA  
+HWI-EAS443:3:63:1417:1926#0/1  
IV^]¥¥^\_QQWX\_] [PYbb^[^`W\_^UVZaQ`baPUaL`  
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GGGGCCTTCTACGGAAGGAGTGCCTGAGTCCATGAGGGAA  
+HWI-EAS443:3:63:1705:761#0/1  
a`\_a\_¥aa^aa¥a``\_aa`\_Wa`Z`\_`\_¥¥X¥`\_¥`\_`\_Y`  
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+HWI-EAS443:3:65:1054:637#0/1  
ab`UZTQYW\_¥Z^T[X^XPVXTOMZXFUF¥^JNZP[X^^0  
@HWI-EAS443:3:71:328:587#0/1  
GACCTCTGACTAAGGGAATTTTAGGATTTGTGTTACGCT  
+HWI-EAS443:3:71:328:587#0/1  
I[]W\_b`\_¥Z`Q¥\_ZV\_0\_\_\_\_\_¥`\_`\_^ZT`a^`aa^bb  
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TGCCTTCTACGGAAGGAGTGCCTGAGTCCATGAGGGAAGA  
+HWI-EAS443:3:73:1652:1790#0/1  
^aabab\_abaaa\_a\_\_`¥MZ\_\_a\_aa^`^a^^]a`¥`a\_  
@HWI-EAS443:3:77:931:220#0/1  
CCTTCCCTCATGGACTCAGGCACTCCTTCCGTAGAAGGCC  
+HWI-EAS443:3:77:931:220#0/1  
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GGGAATTTTAGGATTTGTGTTACGCTCACCGTGCCCAGC  
+HWI-EAS443:3:83:763:370#0/1  
\_VNYab¥X0]aaXYabaTZTPXa^a`Q¥]]Y^GZ¥F¥X[G  
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+HWI-EAS443:3:84:1773:919#0/1  
aaaaa`\_aaaa\_a\_^`ZP]\_¥\_\_\_\_`^\_a¥\_¥¥aX¥^T^V¥  
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+HWI-EAS443:3:87:789:62#0/1  
a¥¥\_\_U`b`\_bbbbbabbbb`ZbaV[ab`^[[aa^HT`W[  
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+HWI-EAS443:3:8:1461:906#0/1  
]¥`\_X`a\_\_\_HO^\_bb\_¥]bba¥]Wb¥UZ\_a[[\_RWPDG  
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GACAAAATGACCATCGTCAACATCCACAGCACTCTGCTGG  
+HWI-EAS443:3:97:236:277#0/1  
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abbbbabbbab^abbbabb`bbbbabbbb`^a``a^]aa  
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+HWI-EAS443:3:100:1143:148#0/1  
a`aVaaaaaa^^^`\_]\_Y\_\_Y^^¥0^X]^V^U]VY^R^B  
@HWI-EAS443:3:100:1280:164#0/1  
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+HWI-EAS443:3:100:1280:164#0/1  
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+HWI-EAS443:3:100:142:1605#0/1  
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GACAAAATGACCATCGTCAACATCCACAGCACTCTGCTGT  
+HWI-EAS443:3:100:1692:1035#0/1  
a^``aaa\_b\_RNaRaV\_a^\_\_^] ^WN]ZY`0^MZVY]^B  
@HWI-EAS443:3:100:249:935#0/1  
TTTGAAAAGAGGGCCTTCTACGGAAGGAGTGCCTGAGTCC  
+HWI-EAS443:3:100:249:935#0/1  
a\_aa\_]`VV^]¥\_¥Z\_¥[\_Z^Z^VP`VVQWVPQSVS\_BBB  
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+HWI-EAS443:3:100:315:1576#0/1  
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+HWI-EAS443:3:100:33:1152#0/1  
^^`Xa`S]X`a^aZM]\_a^UWaaY`[^a``Y^S[¥T^``^  
@HWI-EAS443:3:100:990:1154#0/1  
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+HWI-EAS443:3:100:990:1154#0/1  
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@HWI-EAS443:3:10:1775:607#0/1  
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+HWI-EAS443:3:10:1775:607#0/1  
a`b^^]a[^Qa`U[]`P\_PX`YPYU¥^aRO\_\_RW\_\_NHY

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+HWI-EAS443:3:10:229:1058#0/1  
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+HWI-EAS443:3:10:482:720#0/1  
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@HWI-EAS443:3:10:701:1132#0/1  
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+HWI-EAS443:3:10:701:1132#0/1  
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GACTAAGGGAATTTTAGGATTTGTGTTACGCTCACCGTG  
+HWI-EAS443:3:10:870:612#0/1  
a¥Z\_\_¥`^a¥¥¥\_`^¥¥\_\_QV\_¥^WWXWVSWWUWWYUYWY  
@HWI-EAS443:3:11:1036:433#0/1  
CTGAAAGATGACCTTCTTGAAAATTTGCAGGCCTACCAGA  
+HWI-EAS443:3:11:1036:433#0/1  
abZU¥a`Y[a[]UaaXaaa]X``aaaa]\_a\_]U]\_YY^a\_  
@HWI-EAS443:3:11:1233:198#0/1  
GGGCCTTCTACGGAAGGAGTGCCTGAGTCCATGAGGGAAG  
+HWI-EAS443:3:11:1233:198#0/1  
aa^U[]\_\_^aWa\_UV\_aNZQYVUUMU[NJQGUVG¥WWBBB  
@HWI-EAS443:3:11:1239:201#0/1  
GACTCAGGCACTCCTTCCGTAGAAGGCCCTCTTTCAAAC  
+HWI-EAS443:3:11:1239:201#0/1  
a^\_\_`^[]]a^`]^`^[\_]YZ[]NZTRRRVU]UVNVM[U  
@HWI-EAS443:3:11:1292:156#0/1  
GGATTTGTGTTACGCTCACCGTGCCAGTGAGCGAGGAC  
+HWI-EAS443:3:11:1292:156#0/1  
\_aX``aaZa`U`\_`¥Z]¥URPWS^QQPRKSZBBBBBBBBB  
@HWI-EAS443:3:11:188:559#0/1  
AAATGACCATCGTCAACATCCACAGCACTCTGCTGTTCCCT  
+HWI-EAS443:3:11:188:559#0/1  
aa\_baaaababbaaab`aaaaabaaa`\_aa`aa````\_a`\_  
@HWI-EAS443:3:11:224:675#0/1  
GATTTGTGTTACGCTCACCGTGCCAGTGAGCGAGGACT  
+HWI-EAS443:3:11:224:675#0/1  
\_]`]Y]W\_^Z`^¥Z^U¥ZZ\_^[`Z¥RXZN^K^X¥XNOZRB  
@HWI-EAS443:3:11:728:1423#0/1  
ATTGGGACTCATCCTAGCTCCAGTGCTGGTCTGAAAGATG  
+HWI-EAS443:3:11:728:1423#0/1  
``baa`\_aaba`aa`\_`aaaa`W^NZ]YVa\_aa\_¥\_\_UV  
@HWI-EAS443:3:12:1093:1194#0/1  
GACTAAGGGAATTTTAGGATTTGTGTTACGCTCACCGTG  
+HWI-EAS443:3:12:1093:1194#0/1  
[W`^aababb`a``]¥`\_0¥`\_a\_a\_a¥\_\_a\_\_\_\_\_X\_N\_  
@HWI-EAS443:3:12:223:1300#0/1  
GTTGACAAAATGACCATCGTCAACATCCACAGCACTCTGC

+HWI-EAS443:3:12:223:1300#0/1  
`Sa^Za^aXZRRPX]\_P¥RG`^YVT`[Y[¥ZT]`\_]Z][  
@HWI-EAS443:3:12:322:1898#0/1  
GACAAAATGACCATCGTCAACATCCACAGCACTCTGCTGT  
+HWI-EAS443:3:12:322:1898#0/1  
a`babab``abbbb``\_]aaaba^`\_]Uaa]W\_aMS][B  
@HWI-EAS443:3:12:325:1521#0/1  
GACTCATCTAGCTCCAGTGCTGGTCTGAAAGATGACCTT  
+HWI-EAS443:3:12:325:1521#0/1  
a`aabbabbaaaa`a`aa\_aa\_\_\_¥a```aa\_a^`\_`^`\_`  
@HWI-EAS443:3:12:342:66#0/1  
GAAAAGAGGGCCTTCTACGGAAGGAGTGCCTGAGTCCATG  
+HWI-EAS443:3:12:342:66#0/1  
aa`a`\_`\_a\_aa\_\_\_\_\_^^\_a`WW`\_W\_W¥W¥¥¥W^WVWWW¥  
@HWI-EAS443:3:12:77:334#0/1  
GACAAAATGACCATCGTCAACATCCACAGCACTCTGCTGT  
+HWI-EAS443:3:12:77:334#0/1  
ab`aaZ]a`ba`]`\_ZXa\_\_¥`\_]`\_`^a`^X\_Y^V¥`X  
@HWI-EAS443:3:12:824:303#0/1  
ACCGTGCCAGTGAGCGAGGACTGCAGCGTAGACGCTTTG  
+HWI-EAS443:3:12:824:303#0/1  
\_]Z\_T^b\_MW`V[``]Q¥a`XY[XS]^¥UY]^¥U¥U^  
@HWI-EAS443:3:12:880:818#0/1  
AATTTTCAAGAAGGTCATCTTTTCAGACCAGCACTGGAGCT  
+HWI-EAS443:3:12:880:818#0/1  
a\_ba]ZV^[aa`^`[a`aaa`YYa\_aa\_a]]`0)`YS`WY  
@HWI-EAS443:3:13:1765:761#0/1  
CTCAGGCACTCCTTCCGTAGAAGGCCCTCTTTTCAAACCG  
+HWI-EAS443:3:13:1765:761#0/1  
aaabb^Z\_ba]a`Y[Vb\_aa^`\_]QSM^Y`\_^YN^^^Xa  
@HWI-EAS443:3:13:32:1031#0/1  
GACTAAGGGAATTTTAGGATTTGTGTTACGCTCACCGTG  
+HWI-EAS443:3:13:32:1031#0/1  
abba^[aabaabbaabaaaa`\_\_a\_aaa\_V\_U[RQ^BBB  
@HWI-EAS443:3:13:368:1069#0/1  
GACTCAGGCACTCCTTCCGTAGAAGGCCCTCTTTTCAAAC  
+HWI-EAS443:3:13:368:1069#0/1  
V\_baba\_Z`bb]]`\_\_aaa^V`[U[\_aaYa\_\_\_\_^`]a\_aW  
@HWI-EAS443:3:13:860:140#0/1  
CACTAATCAGGCATGAAAACAGAATGGTGCTGGCTAGCAC  
+HWI-EAS443:3:13:860:140#0/1  
abb¥]V^aaa\_a`aaaa^aabaaa^aaGa``[`a\_\_\_\_`ZW  
@HWI-EAS443:3:13:891:19#0/1  
GACAAAATGACCATCGTCAACATCCACAGCACTCTGCTGT  
+HWI-EAS443:3:13:891:19#0/1  
ZYY¥¥[¥T`] ]^]NTYFUQSX[UP[YF[VNSRTBBBBBBB  
@HWI-EAS443:3:13:919:892#0/1  
AGAGGGCCTTCTACGGAAGGAGTGCCTGAGTCCATGAGGG  
+HWI-EAS443:3:13:919:892#0/1  
aZOZa`a`^\_Ya`aaa````[aXaYV[[\_a[U]]^a¥\_\_`

@HWI-EAS443:3:14:1032:385#0/1  
GACAAAATGACCATCGTCAACATCCACAGCACTCTGCTGT  
+HWI-EAS443:3:14:1032:385#0/1  
aaaaa`aa^Y]^]W]S`[R\_[XZ]X¥`¥ZZWQQZUZZU  
@HWI-EAS443:3:14:108:83#0/1  
AGGACTGCAGCGTAGACGCTTTGTCCAAAATGCCCTAAAT  
+HWI-EAS443:3:14:108:83#0/1  
aab`PaSRV`ZY\_XXbW[PK¥^MNUYMSVWYVNSZLKQW  
@HWI-EAS443:3:14:1218:944#0/1  
GGGCCTTCTACGGAAGGAGTGCCTGAGTCCATGAGGGAAG  
+HWI-EAS443:3:14:1218:944#0/1  
aba`¥aa`a\_aaS^a\_\_R\_^PZ`QaPMU\_\_¥¥¥`¥W[¥  
@HWI-EAS443:3:14:1248:1552#0/1  
GACTCAGGCACTCCTTCCGTAGAAGGCCCTTTTTCAAAC  
+HWI-EAS443:3:14:1248:1552#0/1  
`[\_`\_`\_¥¥¥b[OZ`^^\_aV\_RFW¥\_a]Q^P]^X[X¥X\_\_  
@HWI-EAS443:3:14:128:826#0/1  
CTCCAGTGTGGTCTGAAAGATGACCTTCTGAAAATTTG  
+HWI-EAS443:3:14:128:826#0/1  
a`aa[aY[]\_`aT`¥]V\_^`a¥`Uaaa^a^PTLXa^]^`  
@HWI-EAS443:3:14:138:717#0/1  
AAAGAGGGCCTTCTACGGAAGGAGTGCCTGAGTCCATGAG  
+HWI-EAS443:3:14:138:717#0/1  
aaaba^]\_aba`\_X`aa]`¥IUU`^^T^VUYVR]¥Y`  
@HWI-EAS443:3:14:1421:684#0/1  
CAAAATGACCATCGTCAACATCCACAGCACTCTGCTGTTC  
+HWI-EAS443:3:14:1421:684#0/1  
abb`]aaa[\_a`aaY^]¥[\_]\_\_\_\_\_ZNT]\_0]¥]WJS^^  
@HWI-EAS443:3:14:1446:1017#0/1  
AAATGACCATCGTCAACATCCACAGCACTCTGCTGTTCCT  
+HWI-EAS443:3:14:1446:1017#0/1  
aa`a`a`\_a`\_\_[]\_]W`\_]Y\_S\_]O\_XU]^\_WY`UYPV\_  
@HWI-EAS443:3:14:1534:581#0/1  
GGGCCTTCTACGGAAGGAGTGCCTGAGTCCATGAGGGAAG  
+HWI-EAS443:3:14:1534:581#0/1  
\_Vaa^aa\_aa\_a`V]^`\_UaW\_VV\_\_¥`WTWX`\_V[\_¥W¥^  
@HWI-EAS443:3:14:167:820#0/1  
ACTAATCAGGCATGAAAACAGAATGGTGTCTGGCTAGCACT  
+HWI-EAS443:3:14:167:820#0/1  
a\_b]aa`aa]a\_a¥]`a[`]`\_a`YVY^YQZ[^YSRHQW  
@HWI-EAS443:3:14:179:677#0/1  
TACGGTTTGAAGAGGGCCTTCTACGGAAGGAGTGCCTG  
+HWI-EAS443:3:14:179:677#0/1  
]P`\_`V`a`aa]T^a^\_]Y]]V\_a^Y]XHTU`\_¥¥¥  
@HWI-EAS443:3:14:337:347#0/1  
AGGGCCTTCTACGGAAGGAGTGCCTGAGTCCATGAGGGAA  
+HWI-EAS443:3:14:337:347#0/1  
abb\_\_a^aa]`\_`\_[aaT]¥\_\_\_\_¥[Y\_S\_\_¥[\_T\_\_]UX  
@HWI-EAS443:3:14:545:1331#0/1  
ATTTTCAAGAAGGTCATCTTTCAGACCAGCACTGGAGCTA

+HWI-EAS443:3:14:545:1331#0/1  
`aaa`^b^`^`^`R^`¥aa^QT`aZZ\_a`V[`]^¥\_\_  
@HWI-EAS443:3:14:894:1603#0/1  
GTAGTGCTAGCCAGCACCATTCTGTTTTTCATGCCTGATTA  
+HWI-EAS443:3:14:894:1603#0/1  
aRY`Y]aaa\_`\_\_^VP\_\_aaa\_`Y¥\_\_\_\_\_YW`\_¥^¥^  
@HWI-EAS443:3:14:918:486#0/1  
GGATTTGTGTTACGCTCACCGTGCCAGTGAGCGAGGAC  
+HWI-EAS443:3:14:918:486#0/1  
`a`aaa[a\_`^¥`¥^^Z[`XZXTYS^TPXS¥R¥TZT¥TZR  
@HWI-EAS443:3:14:98:1845#0/1  
AAAGAGGGCCTTCTACGGAAGGAGTGCCTGAGTCCATGAG  
+HWI-EAS443:3:14:98:1845#0/1  
`[`a`aX]`a\_`a\_`¥[THZ[Y`ZM]ZY\_]`^¥U]VU¥]WB  
@HWI-EAS443:3:15:101:170#0/1  
CAAAGCGTCTACGCTGCAGTCCCTCGCTCACTGGGCACGGT  
+HWI-EAS443:3:15:101:170#0/1  
aa\_¥`^^`\_`aa`¥TX]]^^¥U\_UVRRSSKZUPTNMRU  
@HWI-EAS443:3:15:1220:529#0/1  
CAAATGACCATCGTCAACATCCACAGCACTCTGCTGTTC  
+HWI-EAS443:3:15:1220:529#0/1  
abbbbbbbbaaba`baab`baaaaaaa\_a`a`aa\_a`\_aa  
@HWI-EAS443:3:15:132:190#0/1  
AATGACCATCGTCAACATCCACAGCACTCTGCTGTTCCCTG  
+HWI-EAS443:3:15:132:190#0/1  
WQ`bbaa\_a`YI\_`¥`Z¥`^a\_`¥Z\_`]`ZW[]^Y]a¥OL  
@HWI-EAS443:3:15:1624:729#0/1  
CATCCTAGCTCCAGTCTGGTCTGAAAGATGACCTTCTTG  
+HWI-EAS443:3:15:1624:729#0/1  
aa]\_babaaaa\_a\_V`UW`Z^\_ab\_Wa¥ZIR\_[XYTZW^a  
@HWI-EAS443:3:15:1707:1340#0/1  
TGTTGACAAAATGACCATCGTCAACATCCACAGCACTCTG  
+HWI-EAS443:3:15:1707:1340#0/1  
ObUM¥baabab]]bWb\_XZb\_]Z]L`^a[US]aabX\_Y`Z  
@HWI-EAS443:3:15:19:1843#0/1  
CTTCCCTCATGGACTCAGGCACTCCTTCCGTAGAAGGCCC  
+HWI-EAS443:3:15:19:1843#0/1  
a\_bbbabb\_]W`aba`T\_`bbabbaaa`a``¥aa\_a¥`^  
@HWI-EAS443:3:15:238:2017#0/1  
AATTTTCAAGAAGGTCATCTTTTCAGACCAGCACTGGAGCT  
+HWI-EAS443:3:15:238:2017#0/1  
aaaa`aaa`\_\_^0aa^`\_\_`\_`\_Z\_Z\_`]`^\_WZ[WW  
@HWI-EAS443:3:15:370:100#0/1  
CAAATGACCATCGTCAACATCCACAGCACTCTGCTGTTC  
+HWI-EAS443:3:15:370:100#0/1  
abaXbbaXaabb¥baa¥a`b¥\_b\_a`]\_aJSW`aYa¥^^\_  
@HWI-EAS443:3:15:539:1735#0/1  
GACTCATCCTAGCTCCAGTCTGGTCTGAAAGATGACCTT  
+HWI-EAS443:3:15:539:1735#0/1  
\_``abb`aabb\_a`Y^`b[`YXaaYaaaa\_`aa^`\_`



@HWI-EAS443:3:15:590:348#0/1  
ATCCCCGTcagggccccctcaaagccgagatcgcgagagac  
+HWI-EAS443:3:15:590:348#0/1  
^a]¥]^`^\_`\_¥`\_`\_XY¥^[``]aa`a^¥`a]\_XZ^T^VV  
@HWI-EAS443:3:15:645:1670#0/1  
AAGAGGGCCTTCTACGGAAGGAGTGCCTGAGTCCATGAGG  
+HWI-EAS443:3:15:645:1670#0/1  
abaaa`aaa`\_`\_aaa^\_`\_¥`U`T`\_¥`\_¥]SW`\_¥^¥Z  
@HWI-EAS443:3:15:923:877#0/1  
AAAGAGGGCCTTCTACGGAAGGAGTGCCTGAGTCCATGAG  
+HWI-EAS443:3:15:923:877#0/1  
`a^a\_bbb]\_aba`aa`\_`a^[b¥W][¥aVZVXa`TY\_a  
@HWI-EAS443:3:15:93:284#0/1  
GGGAATTTTAGGATTTGTGTTACGCTCACCGTGCCAGT  
+HWI-EAS443:3:15:93:284#0/1  
aaa`^`a\_aa[¥^[`^¥[a^^a`^^W^^W^^W^UWSUW  
@HWI-EAS443:3:16:1036:547#0/1  
ATTCTTCCCTCATGGACTCAGGCACTCCTTCCGTAGAAGG  
+HWI-EAS443:3:16:1036:547#0/1  
U]babUP\_b]Z\_aTa`RR]aXQYa`aY`JTZaR][aVVZ  
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AGGCTATGGAACAGATGGCTGGATCGAGTGAACAGGCAGC  
+HWI-EAS443:3:16:1074:1517#0/1  
ab`\_Z^a`\_W`Y`a¥N\_]VYK\_]Z`¥a[P^`\_S^S[^]]¥  
@HWI-EAS443:3:16:1135:333#0/1  
CTGCAAATTTTCAAGAAGGTCATCTTTCAGACCAGCACTG  
+HWI-EAS443:3:16:1135:333#0/1  
XabbaRZQZ¥a¥b¥¥`bbba^^`\_bZbb`b\_RRSL\_[XZ  
@HWI-EAS443:3:16:1521:578#0/1  
CTTCCCTCATGGACTCAGGCACTCCTTCCGTAGAAGGCC  
+HWI-EAS443:3:16:1521:578#0/1  
Q\_\_S[Wa`¥\_a]a[¥[ab\_¥[b\_Y[]a`a]\_Q\_aab^F[O  
@HWI-EAS443:3:16:176:175#0/1  
GACTCATCTAGCTCCAGTGTGCTGAAAGATGACCTT  
+HWI-EAS443:3:16:176:175#0/1  
TVVb\_HWX^J^[]¥XY]¥HZVZX[ZQ[S]X]U\_\_XHNT  
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CAGGCACTCCTTCCGTAGAAGGCCCTTTTTCAAACCGTA  
+HWI-EAS443:3:16:198:176#0/1  
¥RW\_bb\_\_a`\_`[a`aZVV^`U]aa\_]`\_`a]]a`¥LDQP]  
@HWI-EAS443:3:16:453:1719#0/1  
GACAAAATGACCATCGTCAACATCCACAGCACTCTGCTGT  
+HWI-EAS443:3:16:453:1719#0/1  
\_bab`a`babaaa`^]`\_a]]`\_a`\_`\_a\_]\_U`\_W`^Z\_Y  
@HWI-EAS443:3:16:582:400#0/1  
GGCCTTCTACGGAAGGAGTGCCTGAGTCCATGAGGGAAGA  
+HWI-EAS443:3:16:582:400#0/1  
abaaV\_aNVVV\_ZN\_OJ¥G¥NVOXWV[¥N\_\_WaW\_^]\_B  
@HWI-EAS443:3:16:906:750#0/1  
GACTCATCTAGCTCCAGTGTGCTGAAAGATGACCTT

+HWI-EAS443:3:16:906:750#0/1  
KS\_aa`a```\_\_`Wab\_NZ^Q`¥NNa]WX]`aaa`XQ]\_  
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CTTCTACGGAAGGAGTGCCTGAGTCCATGAGGGAAGAATA  
+HWI-EAS443:3:16:969:1329#0/1  
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@HWI-EAS443:3:17:1043:1101#0/1  
CAAAATGACCATCGTCAACATCCACAGCACTCTGCTGTTC  
+HWI-EAS443:3:17:1043:1101#0/1  
ab`a¥`b`ababb¥`abbaba\_abaaaaaaaa`b`a`b\_  
@HWI-EAS443:3:17:1311:1420#0/1  
GCCTTCTACGGAAGGAGTGCCTGAGTCCATGAGGGAAGAA  
+HWI-EAS443:3:17:1311:1420#0/1  
ab]\_PTRWJaaR`[JL\_N\_[Q\_X^ZBBBBBBBBBBBBBBB  
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GGCCTGCAAATTTTCAAGAAGGTCATCTTTCAGACCAGCA  
+HWI-EAS443:3:17:1328:1644#0/1  
¥Z\_\_ORUXU\_a`\_P\_\_¥¥Y^^\_aaabbaabZUO\_]a^[  
@HWI-EAS443:3:17:1422:909#0/1  
AAAATGACCATCGTCAACATCCACAGCACTCTGCTGTTC  
+HWI-EAS443:3:17:1422:909#0/1  
\_`Zaaaa\_aa`]¥\_`W]]a\_XNU\_a\_VT[XV]¥\_aWTFN  
@HWI-EAS443:3:17:214:490#0/1  
CAAAATGACCATCGTCAACATCCACAGCACTCTGCTGTTC  
+HWI-EAS443:3:17:214:490#0/1  
a]abaa[aa[^T\_`UZ\_\_]a^\_\_`ZZXU\_`\_]¥0\_¥¥U[]  
@HWI-EAS443:3:17:328:260#0/1  
GGGAATTTTAGGATTTGTGTTACGCTCACCGTGCCCAGT  
+HWI-EAS443:3:17:328:260#0/1  
`b`a`ba`baa`bb\_aa\_aaa\_a¥[`Z[a¥`X¥\_¥`S  
@HWI-EAS443:3:17:564:1575#0/1  
TGGACTCAGGCACTCCTTCCGTAGAAGGCCCTCTTTTCAA  
+HWI-EAS443:3:17:564:1575#0/1  
aaa\_`ab`a[bbaabaa`a`¥a\_`a\_\_aVZ\_a]\_\_\_\_]`a  
@HWI-EAS443:3:17:795:271#0/1  
GACAAAATGACCATCGTCAACATCCACAGCACTCTGCTGT  
+HWI-EAS443:3:17:795:271#0/1  
aZS\_WFZ``]YQTGSSWYLXGY¥MULJQMMZWNUUUOTRB  
@HWI-EAS443:3:17:855:1016#0/1  
GGAATTTTAGGATTTGTGTTACGCTCACCGTGCCCAGTG  
+HWI-EAS443:3:17:855:1016#0/1  
aa¥`X\_\_`]ZXVY[]PDHRZUTRWVN[K]¥WV¥PTWTBBB  
@HWI-EAS443:3:17:929:572#0/1  
CATGGACTCAGGCACTCCTTCCGTAGAAGGCCCTCTTTTC  
+HWI-EAS443:3:17:929:572#0/1  
aaa\_[[aaa\_a`aa\_aa\_a\_\_\_¥]\_\_[\_]VXaV]T\_\_^]V  
@HWI-EAS443:3:18:150:635#0/1  
TAGGATTTGTGTTACGCTCACCGTGCCCAGTGAGCGAGG  
+HWI-EAS443:3:18:150:635#0/1  
\_aa\_^\_^`aW\_^]``aaaZXX¥aX¥X^¥`^aS`TY¥^XVT

@HWI-EAS443:3:18:331:1952#0/1  
ATTTTAGGATTTGTGTTACGCTCACCGTGCCAGTGAGC  
+HWI-EAS443:3:18:331:1952#0/1  
a]\_a`a\_\_\_\_\_`¥]V`aa¥QbZ¥ZUWXUQ[GU¥¥BBBBB  
@HWI-EAS443:3:18:407:1912#0/1  
CAGTGAGCGAGACTGCAGCGTAGACGCTTTGTCCAAAAT  
+HWI-EAS443:3:18:407:1912#0/1  
`b^^abaaaa`aa\_`a^^V[XW[aa\_NWWW¥XXX\_`UV^¥  
@HWI-EAS443:3:18:589:383#0/1  
TTTGGACAAAGCGTCTACGCTGCAGTCCTCGCTCACTGGG  
+HWI-EAS443:3:18:589:383#0/1  
aaaaaa`a`^^^]`a`^^YU\_`^U¥[^¥[^U^S¥Z¥^  
@HWI-EAS443:3:18:614:763#0/1  
ATCCCGTCAGGCCCTCAAAGCCGAGATCGCGCAGAGAC  
+HWI-EAS443:3:18:614:763#0/1  
aaaaa`^aa`a`a\_^)`Y[\_U^^`UPV^^^WUYW¥WM  
@HWI-EAS443:3:18:690:342#0/1  
CAAGAAGGTCATCTTTCAGACCAGCACTGGAGCTAGGATG  
+HWI-EAS443:3:18:690:342#0/1  
aaa`aba]aaa^aa`\_`a`^\_a\_[`\_[^\_^^\_^^\_^]Y]\_`  
@HWI-EAS443:3:19:1001:1313#0/1  
GTTGACAAAATGACCATCGTCAACATCCACAGCACTCTGC  
+HWI-EAS443:3:19:1001:1313#0/1  
a\_aababa`aa`aa\_¥aX\_^^\_Y\_`Y^\_V^V^XXUX  
@HWI-EAS443:3:19:1020:138#0/1  
CGGTTTGAAAAGAGGGCCTTCTACGGAAGGAGTGCTGAG  
+HWI-EAS443:3:19:1020:138#0/1  
abbZba\_aab`bbbababbbbaaabbaaab\_a]IYba`a`  
@HWI-EAS443:3:19:1539:1437#0/1  
ATTTGTGTTACGCTCACCGTGCCAGTGAGCGAGGACTG  
+HWI-EAS443:3:19:1539:1437#0/1  
a`aaa\_ba\_\_a`a\_¥]^¥^XG[XW¥U`Wa¥¥¥^T]¥USU^  
@HWI-EAS443:3:19:454:612#0/1  
AATTTTCAAGAAGGTCATCTTTCAGACCAGCACTGGAGCT  
+HWI-EAS443:3:19:454:612#0/1  
a\_aa\_]¥^]^¥`^`[]`\_`a`^^[]`\_`VLXV\_VNRBB  
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`b`b^ZYabaa`ZaaZ]Xaab`V]aa`b`\_\_KOJYY\_V\_S  
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GCAAATTTTCAAGAAGGTCATCTTTCAGACCAGCACTGGA  
+HWI-EAS443:3:1:1580:949#0/1  
a`a`¥baabaaaba]`\_]`a¥aaa¥a`\_T]\_`^a[¥a^B  
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AAAGAGGGCCTTCTACGGAAGGAGTGCCTGAGTCCATGAG  
+HWI-EAS443:3:1:168:927#0/1  
aab^`X`R`P`\_X]aU^^Z\_[`Za¥`SY^\_^\_¥WUZ^BBB  
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GACAAAATGACCATCGTCAACATCCACAGCACTCTGCTGT

+HWI-EAS443:3:1:316:330#0/1  
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+HWI-EAS443:3:1:841:587#0/1  
abb\_Y\_\_`a`Zbaa`Xa\_a`ZU``a]¥^`\_`¥`a\_BBB  
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AATTTTCAAGAAGGTCATCTTTCAGACCAGCACTGGAGCT  
+HWI-EAS443:3:1:843:544#0/1  
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GACTCATCTAGCTCCAGTGTCTGGTCTGAAAGATGACCTT  
+HWI-EAS443:3:1:95:589#0/1  
aaa\_aa`^aab`a\_]aa^`¥`^`V`\_\_\_^\_W^^]]]BB  
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+HWI-EAS443:3:20:1054:944#0/1  
^¥[ba`bbbabb]a`aaa¥MYX`^`^\_H¥Q]a`[¥T¥¥\_\_  
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GACAAAATGACCATCGTCAACATCCACAGCACTCTGCTGT  
+HWI-EAS443:3:20:1240:439#0/1  
aa`aa^]aaa`\_a\_¥aS\_\_Z]^\_[Z^\_^^Z]LY¥¥ZUZ[O  
@HWI-EAS443:3:20:229:1555#0/1  
AGGCCTGCAAATTTTCAAGAAGGTCATCTTTCAGACCAGC  
+HWI-EAS443:3:20:229:1555#0/1  
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+HWI-EAS443:3:20:250:192#0/1  
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@HWI-EAS443:3:20:271:279#0/1  
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+HWI-EAS443:3:20:271:279#0/1  
`\_aaaaa`a`^`^`^`\_`X`^U`\_`^]`\_Y[\_XY]Z]Z  
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+HWI-EAS443:3:20:355:1520#0/1  
\_YSVaR^bbabaaYS^W]ZYR]^`SV¥R^QVQ¥\_^U¥TY`  
@HWI-EAS443:3:20:365:1219#0/1  
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+HWI-EAS443:3:20:365:1219#0/1  
[aba¥aabaaaa`aa`^bbaaaa`aa`aaa\_a\_a]`]]  
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GACAAAATGACCATCGTCAACATCCACAGCACTCTGCTGT  
+HWI-EAS443:3:20:366:753#0/1  
\_aaabaa`a`baba`aZ¥a\_Z[a`aaaa\_]I\_\_\_\_\_`]^\_U

@HWI-EAS443:3:20:490:1408#0/1  
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+HWI-EAS443:3:20:490:1408#0/1  
abaab^aaaa`baaaaa¥a^\_ab`a`¥a^^`[Sa^[M^\_P  
@HWI-EAS443:3:20:516:356#0/1  
GACAAAATGACCATCGTCAACATCCACAGCACTCTGCTGT  
+HWI-EAS443:3:20:516:356#0/1  
a^aa\_]\_a`\_`aa^V`\_\_\_\_\_]\_]`\_`¥RUY\_HZYM¥U  
@HWI-EAS443:3:20:87:504#0/1  
AATTTTCAAGAAGGTCATCTTTTCAGACCAGCACTGGAGCT  
+HWI-EAS443:3:20:87:504#0/1  
aaaaa`a`[\_`\_a^N`aaaa`^a`\_`\_`\_]`\_`^`]^`^^^`]  
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TGTTGACAAAATGACCATCGTCAACATCCACAGCACTCTG  
+HWI-EAS443:3:20:962:1363#0/1  
aa\_aaaaaa^`aa]`a`Y^\_aa\_a`\_a`]`[V\_]\_W\_\_  
@HWI-EAS443:3:21:1019:1004#0/1  
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+HWI-EAS443:3:21:1019:1004#0/1  
aa`\_`\_a``aaaa`a\_\_a\_]`aY\_\_^\_]Y^\_\_[Z^^^\_]`  
@HWI-EAS443:3:21:1159:1235#0/1  
GACAAAATGACCATCGTCAACATCCACAGCACTCTGCTGT  
+HWI-EAS443:3:21:1159:1235#0/1  
aa]a¥a]aaaa`\_¥]aU`^^\_]\_\_\_Z]VQ`\_]`\_]`^]^^`]  
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+HWI-EAS443:3:21:131:1830#0/1  
aa\_\_Yaa]aaa`\_]Wa`a\_\_a`\_`^`\_a\_\_^^\_a`\_`[^`^a  
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+HWI-EAS443:3:21:1359:843#0/1  
[a^\_TZOX`X^a`QRYPaYV`GYOX^\_OKL¥QYYW[a]Y\_  
@HWI-EAS443:3:21:137:1990#0/1  
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+HWI-EAS443:3:21:137:1990#0/1  
\_aX`^ba`aa`V`\_`a`^`\_[[aaaVaW\_\_`\_¥U`^¥N¥WW  
@HWI-EAS443:3:21:1426:643#0/1  
GCAAATTTTCAAGAAGGTCATCTTTTCAGACCAGCACTGGA  
+HWI-EAS443:3:21:1426:643#0/1  
Z\_]VHXYYQTU]Q\_X]U¥¥RX\_XOWG`aZVO[JHZWZZ¥^  
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+HWI-EAS443:3:21:511:1324#0/1  
a`U`TS`S¥ab[P`TQP\_\_a`PM[¥a¥T\_a\_QQ¥Z¥\_S\_Z  
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+HWI-EAS443:3:21:80:1834#0/1  
^a``ZX¥^^¥`aa`^aY``ZZ`]LXV]aa]X[FRaaVOJB  
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+HWI-EAS443:3:21:848:359#0/1  
a`a`aaa\_Z^]Z[^a[a`[¥aT]^\_[-\_V[^¥V\_N\_Y  
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+HWI-EAS443:3:22:1065:1613#0/1  
\_\_a`baX`\_a^a[^PVbUY`\_b\_a`^XYZTZ`^Z]a\_`^  
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+HWI-EAS443:3:22:1392:130#0/1  
aaRaa`abaa¥Zaa]\_\_^\_XK[\_\_0\_X`¥Z\_V^X\_WX^ZZ  
@HWI-EAS443:3:22:1480:1144#0/1  
CAAAATGACCATCGTCAACATCCACAGCACTCTGCTGTTC  
+HWI-EAS443:3:22:1480:1144#0/1  
`\_\_a^]a`\_a]X\_VZ`\_YZ¥^F¥¥^]LXR]V¥YWXVWUN  
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+HWI-EAS443:3:22:1768:996#0/1  
aa\_\_VZ\_b\_bb`^^`a¥a\_`a]^\_a\_]Z`\_R\_\_Y^¥ZY  
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+HWI-EAS443:3:22:374:1339#0/1  
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+HWI-EAS443:3:22:709:1101#0/1  
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+HWI-EAS443:3:22:735:1619#0/1  
]¥¥K`\_\_]b`\_K`\_bab\_baSXSXYFM¥¥\_]aY[¥KZ[TU  
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CAGGCACTCCTTCCGTAGAAGGCCCTCTTTTCAAACCGTA  
+HWI-EAS443:3:22:867:1079#0/1  
a\_a]abbaa`[^aaa]ab`]^[^Z`W[``\_aa\_\_`]\_\_X]  
@HWI-EAS443:3:23:1378:790#0/1  
CAGTGAGCGAGGACTGCAGCGTAGACGCTTTGTCCAAAAT  
+HWI-EAS443:3:23:1378:790#0/1  
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CAGGCACTCCTTCCGTAGAAGGCCCTCTTTTCAAACCGTA  
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a\_U\_bbaX`a^a\_a]^`a\_[Ta\_]U[TY^\_]\_^RN]XX  
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+HWI-EAS443:3:23:168:404#0/1  
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+HWI-EAS443:3:23:22:797#0/1  
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@HWI-EAS443:3:23:232:299#0/1  
GGGCCTTCTACGGAAGGAGTGCCTGAGTCCATGAGGGAAG  
+HWI-EAS443:3:23:232:299#0/1  
a`]¥\_a`\_Z¥]^][XTRWJVW[X¥TSTW[VZ¥W^^ZU¥Z  
@HWI-EAS443:3:23:330:296#0/1  
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+HWI-EAS443:3:23:330:296#0/1  
aaaaaaaa\_X`¥][T`^^\_\_[\_[a``\_]\_\_\_\_U^^]\_Z]  
@HWI-EAS443:3:23:35:1028#0/1  
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+HWI-EAS443:3:23:35:1028#0/1  
aba``]^abaa`\_[`a^\_\_`]U¥\_```\_a``\_a[]X\_\_^U  
@HWI-EAS443:3:23:481:1023#0/1  
CAGTGAGCGAGGACTGCAGCGTAGACGCTTTGTCCAAAAT  
+HWI-EAS443:3:23:481:1023#0/1  
aXX]YT\_b^^US^a\_\_[a`Z[W`\_\_W^X\_\_¥XU¥\_`\_U¥S  
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TGTTGACAAAATGACCATCGTCAACATCCACAGCACTCTG  
+HWI-EAS443:3:23:481:181#0/1  
aa[aba\_aabaaab\_a^aaa[aa`\_aaa]^`^`\_]\_^\_Z¥`  
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+HWI-EAS443:3:23:561:812#0/1  
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+HWI-EAS443:3:23:734:182#0/1  
\_\_Y\_^SPZ[[XSVaVWaXG]^`[\_\_\_\_WaR]QGQR]UXQKWT  
@HWI-EAS443:3:23:992:1810#0/1  
CAAAATGACCATCGTCAACATCCACAGCACTCTGCTGTTC  
+HWI-EAS443:3:23:992:1810#0/1  
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GGGAATTTTAGGATTTGTGTTACGCTCACCGTGCCAGT  
+HWI-EAS443:3:24:1003:896#0/1  
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+HWI-EAS443:3:24:1009:1193#0/1  
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ab`bbbbba\_Vaaaa`a¥aaa\_ab`^baa\_Va\_]b^aa`  
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+HWI-EAS443:3:24:1444:765#0/1  
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+HWI-EAS443:3:24:284:1642#0/1  
a]aa^\_¥`abaa`ZZaVWXYaa`a¥YXSW¥a\_R\_]\_\_\_\_VN  
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+HWI-EAS443:3:24:362:835#0/1  
¥¥][`a\_bbbba^W\_¥^\_]`]]RZ\_b`P\_^`aMa`  
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+HWI-EAS443:3:24:584:651#0/1  
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TTAAATACGTTTGAAAAGAGGGCCTTCTACGGAAGGAGT  
+HWI-EAS443:3:24:839:611#0/1  
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+HWI-EAS443:3:24:945:33#0/1  
abbabb^ab\_aaba]aaaaaaaa¥`aaYY\_^aa````^\_[\_  
@HWI-EAS443:3:25:1026:929#0/1  
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+HWI-EAS443:3:25:1026:929#0/1  
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+HWI-EAS443:3:25:1312:1849#0/1  
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+HWI-EAS443:3:25:1746:1966#0/1  
abTOT[0¥a`\_ba]aa`a\_[\_[X\_ZPaSLYa^ZSUN\_Y[Z  
@HWI-EAS443:3:25:210:1568#0/1  
AATCCACAATATCAGGTGCAAGATCCCAATGATATTTGCT  
+HWI-EAS443:3:25:210:1568#0/1  
abaabbabaaa`ba`\_Yaa^aaa`a`aaa\_^aaa``\_\_]\_  
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CAAAATGACCATCGTCAACATCCACAGCACTCTGCTGTTC  
+HWI-EAS443:3:25:600:1462#0/1  
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@HWI-EAS443:3:25:784:852#0/1  
AAGAGGGCCTTCTACGGAAGGAGTGCCTGAGTCCATGAGG  
+HWI-EAS443:3:25:784:852#0/1  
aaabaabaaaaaaaaba\_\_a`\_a¥`\_`\_`\_`\_¥]\_\_\_\_[[\_\_



@HWI-EAS443:3:25:795:159#0/1  
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+HWI-EAS443:3:25:795:159#0/1  
a¥UDNL[WGTU¥\_WS¥\_NZNWWQQVWVTRNWWVUUW¥QUY  
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CTCATGGACTCAGGCACTCCTTCCGTAGAAGGCCCTCTTT  
+HWI-EAS443:3:25:829:1626#0/1  
aab¥`¥`¥`bb`a`^Y¥bUaa]`bba][a]`\_a`V[\_VW`  
@HWI-EAS443:3:26:392:641#0/1  
CACTAATCAGGCATGAAAACAGAATGGTGCTGGCTAGCAC  
+HWI-EAS443:3:26:392:641#0/1  
aaaa]aa]a`X\_aaaa\_aa``]aa``\_UaZa\_`\_^`[N\_^  
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+HWI-EAS443:3:26:458:1182#0/1  
a`aaaa\_]a\_\_\_V\_]\_]aaG\_`Y`\_Z^Y^VU¥^¥X`W  
@HWI-EAS443:3:26:83:616#0/1  
AATTTTCAAGAAGGTCATCTTTCAGACCAGCACTGGAGCT  
+HWI-EAS443:3:26:83:616#0/1  
\_T]¥bb`a`a]aa][[]]aa`a`\_Yaaa```a`Y\_`\_a`  
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+HWI-EAS443:3:27:1246:1885#0/1  
abababaababaa`aaaSaab\_a¥`[a\_\_\_`\_\_^^^V  
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+HWI-EAS443:3:27:1313:1574#0/1  
a`aaa`\_`aa`]a]`aaa`a\_```\_\_^`\_`\_\_[\_`\_^`[\_`\_\_  
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+HWI-EAS443:3:27:169:218#0/1  
T\_¥¥Z¥`\_]\_¥¥\_ZT\_`^Y\_]\_^b^^^a]a]XYW¥¥¥WZ  
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AAAATGACCATCGTCAACATCCACAGCACTCTGCTGTTC  
+HWI-EAS443:3:27:1781:70#0/1  
¥a`aba\_[a`UaYaaa0\_a``\_U``W`Z^WY\_X`aZ\_ZZ  
@HWI-EAS443:3:27:225:946#0/1  
ATCCTAGCTCCAGTGCTGGTCTGAAAGATGACCTTCTTGA  
+HWI-EAS443:3:27:225:946#0/1  
aaabaa\_a`a\_^]]`^^[W\_\_^]\_TQ]XX^¥^]]^]\_¥]  
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[aaaabb`¥QUaaUa^\_aaaaaa^aa`^\_\_Z\_\_``^¥a\_`  
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TGCAAATTTTCAAGAAGGTCATCTTTCAGACCAGCACTGG  
+HWI-EAS443:3:27:558:370#0/1  
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GCGCGATCTCGGCTTTGAGGGGGCCTGACGGGATGATAGA

+HWI-EAS443:3:27:588:1277#0/1  
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GGGAATTTTAGGATTTGTGTTACGCTCACCGTGCCAGT  
+HWI-EAS443:3:28:1326:689#0/1  
a\_]\_Xaaa¥`\_¥¥^\_]V^¥Y]]BBBBBBBBBBBBBBBB  
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\_`\_`\_`\_`ab`¥\_`¥^Uaa¥\_`^X`[\_`\_^X\_`TLMX^]\_  
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S¥¥\_XY¥^¥a\_\_\_V^^bba^U[b\_ZN`Sba]a\_[-¥`¥Z`  
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\_V[W``aX`a]aWX\_V]Z`a]U¥]^M[Q\_aVVZ¥^]W¥  
@HWI-EAS443:3:37:554:134#0/1  
AAAATGACCATCGTCAACATCCACAGCACTCTGCTGTTCC  
+HWI-EAS443:3:37:554:134#0/1  
a`ababa`aaaaa^a`¥`\_aa\_]a]\_\_`V\_^]`Z\_ZW]T  
@HWI-EAS443:3:37:969:926#0/1  
AAAATGACCATCGTCAACATCCACAGCACTCTGCTGTTCC  
+HWI-EAS443:3:37:969:926#0/1  
aabaaaaaab`aa^aaa]aab]\_`]V]aUa`^`^\_¥^]Y  
@HWI-EAS443:3:38:1038:1580#0/1  
CTTCCCTCATGGACTCAGGCACTCCTTCCGTAGAAGGCCC  
+HWI-EAS443:3:38:1038:1580#0/1  
aab\_]ba]ZVa`[`¥a\_ba\_a]]aaXU^a\_S\_[]WP[OJL  
@HWI-EAS443:3:38:103:1048#0/1  
ATCCTAGCTCCAGTGCTGGTCTGAAAGATGACCTTCTTGA  
+HWI-EAS443:3:38:103:1048#0/1  
ababaaababb\_\_Waaaa`¥aa`[a\_a`\_]`\_`aa\_\_\_\_



@HWI-EAS443:3:38:1056:299#0/1  
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+HWI-EAS443:3:38:1056:299#0/1  
ab]abbbaaa`aaaaa`\_`aaa`a`\_aU¥WZ¥^V`¥\_Y  
@HWI-EAS443:3:38:1123:982#0/1  
TATTCTTCCCTCATGGACTCAGGCACTCCTTCCGTAGAAG  
+HWI-EAS443:3:38:1123:982#0/1  
abbaaaabaa`aa\_`aaaaaa¥aaa`ab^^\_[aV`a¥`^  
@HWI-EAS443:3:38:1224:770#0/1  
GGACTCAGGCACTCCTTCCGTAGAAGGCCCTCTTTTCAA  
+HWI-EAS443:3:38:1224:770#0/1  
a]bb]bbababab`a`aaab^a`aa`a`¥DMYa\_aa][`U  
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CTCAGGCACTCCTTCCGTAGAAGGCCCTCTTTTCAAACCG  
+HWI-EAS443:3:38:1317:384#0/1  
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@HWI-EAS443:3:38:1389:482#0/1  
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+HWI-EAS443:3:38:1389:482#0/1  
Y`V\_Z\_¥aS[aa]\_baabbaX^`^ba`\_YPX[`a^`[[Y  
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+HWI-EAS443:3:38:1492:1033#0/1  
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+HWI-EAS443:3:38:149:1223#0/1  
W^¥0]^S^\_\_SQ^`\_`¥[TZ^]]\_Z\_^]\_YVYVW¥SFX^V  
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+HWI-EAS443:3:38:151:1282#0/1  
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a]aaa]aa]]Z\_Y[^YaXVYa`^b\_]`^`UW¥¥`\_H[T]G  
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abbWWW`\_U\_b^]P`W\_WUY`\_aVTY`XQ¥T^Z\_¥ZYPSR  
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CCACAATATCAGGTGCAAGATCCCAATGATATTTGCTGCA  
+HWI-EAS443:3:38:1706:1238#0/1  
\_]a\_X`^a^\_\_\_\_^¥^^`\_¥]\_]^aaab`a]TTZ\_\_SXXYS  
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+HWI-EAS443:3:38:1744:339#0/1  
abbbabaab`ba^Uaa^bU`a`aa¥a^Sa¥VPU`]`V¥^W  
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+HWI-EAS443:3:38:1751:1764#0/1  
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+HWI-EAS443:3:38:362:305#0/1  
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+HWI-EAS443:3:38:458:1530#0/1  
]Q\_H^^[\_S\_a\_^`U`\_ab]b`U^a\_a¥Z^a]aaa\_^^[  
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a¥Za^`\_aa^`a`\_X\_a¥SH¥aYQZRa^W\_[L]\_V]P]V  
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+HWI-EAS443:3:38:563:533#0/1  
a`aaaaZY¥a\_\_\_\_\_`a^`V`^a`W^^\_ZOFQW]]X^]]  
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GGGAATTTTAGGATTTGTGTTACGCTCACCGTGCCCGT  
+HWI-EAS443:3:38:620:1347#0/1  
\_¥XX\_a^`¥¥\_Z¥`^ZXWVS]]\_`OZSYLER¥V]¥YRD  
@HWI-EAS443:3:38:860:678#0/1  
GACAAAATGACCATCGTCAACATCCACAGCACTCTGCTGT  
+HWI-EAS443:3:38:860:678#0/1  
a\_a^`^a]a`\_^\_\_`^`\_]\_^Z[`^^]YFVW^SYRN]]S  
@HWI-EAS443:3:39:1021:77#0/1  
CACCTCTGACTAAGGGAATTTTAGGATTTGTGTTACGCT  
+HWI-EAS443:3:39:1021:77#0/1  
abb\_]UK\_UY]V`U`b\_I][aR`b\_PVT[`Y\_Y\_aU^XBB  
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+HWI-EAS443:3:39:110:1517#0/1  
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+HWI-EAS443:3:39:1545:1083#0/1  
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CAGGCACTCCTTCCGTAGAAGGCCCTCTTTTCAAACCGTA  
+HWI-EAS443:3:39:356:584#0/1  
aaaaaa\_`aa```\_a][\_YT[^\_\_\_TVY^^[W^]\_^Z\_U^  
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AAATGACCATCGTCAACATCCACAGCACTCTGCTGTTCCCT  
+HWI-EAS443:3:39:396:1562#0/1  
abaa\_bbabaa\_^`a]\_a\_aX\_]\_\_`\_`\_\_\_\_\_^\_]\_^

@HWI-EAS443:3:39:403:1659#0/1  
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+HWI-EAS443:3:39:403:1659#0/1  
ab`]`^babaaa]\_aa`\_a\_W\_\_\_\_\_]Z`a\_]ZZ\_¥]Z\_\_Z  
@HWI-EAS443:3:39:481:434#0/1  
GGGAATTTTAGGATTTGTGTTCCACGCTCACCGTGCCAGT  
+HWI-EAS443:3:39:481:434#0/1  
Y\_bUaaababa^]baaaRaa\_aaa^a¥`aa¥]¥`S¥¥Y`M  
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CAAATTTTCAAGAAGGTCATCTTTTCAGACCAGCACTGGAG  
+HWI-EAS443:3:39:504:323#0/1  
\_[¥\_bbaab`U`a]baXa`a`a``aaaaa^`aa`\_\_^\_  
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+HWI-EAS443:3:39:687:380#0/1  
aab\_a`ab]\_b\_aaa]`a`[\_`\_Ya`[VV\_\_¥¥[\_\_\_\_ZZ¥  
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+HWI-EAS443:3:3:1447:1247#0/1  
aa`a]^\_QV\_`^`\_\_`\_\_¥\_¥[W¥Z^¥QS¥NVOXS¥]VBB  
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+HWI-EAS443:3:3:1791:1340#0/1  
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+HWI-EAS443:3:3:194:1512#0/1  
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TGTTGACAAAATGACCATCGTCAACATCCACAGCACTCTG  
+HWI-EAS443:3:3:350:1401#0/1  
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+HWI-EAS443:3:3:463:916#0/1  
a^\_\_]]`\_]`\_Y^Z]]^U`XX]Y]]]XXXUUXYXXUWXXB  
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ACGGTGAGCGTGAACACAAATCCTAAAATTCCTTAGTCA  
+HWI-EAS443:3:40:1018:1647#0/1  
a`a\_Y````\_]\_\_\_\_\_a\_a`Z^`\_\_\_YG¥]^Z]^]]]Y\_\_  
@HWI-EAS443:3:40:1055:1532#0/1  
CAAAATGACCATCGTCAACATCCACAGCACTCTGCTGTTC  
+HWI-EAS443:3:40:1055:1532#0/1  
\_`bb`b`bbba^\_]XZ\_¥^T\_`\_^\_[\_L[\_a^^a¥`XZZ  
@HWI-EAS443:3:40:1424:73#0/1  
TGTTGACAAAATGACCATCGTCAACATCCACAGCACTCTG  
+HWI-EAS443:3:40:1424:73#0/1  
ababaaaaaaaaa^\_[aa^a^a\_\_X^Y[\_`R]\_^\_^^]^]  
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CGCTCACCGTGCCAGTGAGCGAGGACTGCAGCGTAGACG

+HWI-EAS443:3:40:153:542#0/1  
abbaa^]a`ba`a`\_¥a`aa\_S¥^\_W^¥\_]\_^UY^¥¥]  
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+HWI-EAS443:3:40:1754:905#0/1  
aba^]a\_SX^a^a\_\_\_a\_T^\_[a\_^\_]0a`Z]¥Y\_¥PX\_Y  
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+HWI-EAS443:3:40:616:568#0/1  
aaabab`\_`a¥^\_abaa`])^baa`]Ua`aV`[Z`^[a\_\_\_  
@HWI-EAS443:3:40:777:124#0/1  
CGCTCACCGTGCCAGTGAGCGAGGACTGCAGCGTAGACG  
+HWI-EAS443:3:40:777:124#0/1  
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+HWI-EAS443:3:40:885:808#0/1  
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AAAGAGGGCCTTCTACGGAAGGAGTGCCTGAGTCCATGAG  
+HWI-EAS443:3:40:942:1047#0/1  
a```\_\_\_^^^`^a`a`\_b`^aa\_V[Q0[`[a^a^`V])Y\_  
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CAGGCACTCCTTCCGTAGAAGGCCCTTTTTCAAACCGTA  
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+HWI-EAS443:3:42:1380:971#0/1  
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+HWI-EAS443:3:42:1445:50#0/1  
H\_¥Uab`¥¥a¥T^aWaaT`b\_]`b]0¥`b```\_`babaa`a  
@HWI-EAS443:3:42:1661:254#0/1  
AAAATGACCATCGTCAACATCCACAGCACTCTGCTGTTC  
+HWI-EAS443:3:42:1661:254#0/1  
a\_aab`a`aabaa`aa]a^\_¥`\_a`\_¥]\_`\_]\_a]\_ZV  
@HWI-EAS443:3:42:1768:603#0/1  
CAAAATGACCATCGTCAACATCCACAGCACTCTGCTGTTC  
+HWI-EAS443:3:42:1768:603#0/1  
`a^^^\_b`¥H]WVXOX\_^QS[[XSJZWOZ¥YQ^XXW[UXZ  
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CAAAATGACCATCGTCAACATCCACAGCACTCTGCTGTTC  
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a\_Kbbb`]aabbabQ]a``\_]\_````¥a\_[a^aa\_\_aYVa¥  
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GCTGCAGTCTCGTCACTGGGCACGGTGAGCGTGAACAC  
+HWI-EAS443:3:42:564:598#0/1  
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+HWI-EAS443:3:42:565:1258#0/1  
¥UbaWWZ¥UV\_V]S\_S^]aQZ]ZNZLFU¥[LX`\_WM¥^`  
@HWI-EAS443:3:42:772:134#0/1  
CAGGCACTCCTTCCGTAGAAAGGCCCTCTTTTCAAACCGTA  
+HWI-EAS443:3:42:772:134#0/1  
aa`aaaa`]a\_aaa]^`\_[\_]a]\_ZV^^^]Y^¥Y¥X^RX  
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TGCAGCGTAGACGCTTTGTCCAAAATGCCCTAAATGGGAA  
+HWI-EAS443:3:43:1081:1480#0/1  
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+HWI-EAS443:3:43:1426:1845#0/1  
`U\_]ZU^YVXUYZXU[^`abZ^`^¥¥^a^]^a^`]YZV]  
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CAGTGAGCGAGGACTGCAGCGTAGACGCTTTGTCCAAAAT  
+HWI-EAS443:3:43:165:30#0/1  
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GGCCTGCAAATTTTCAAGAAGGTCATCTTTTCAGACCAGCA  
+HWI-EAS443:3:43:1771:1404#0/1  
]\_Z\_\_\_\_\_Za``bbaS[¥\_H^X\_MU]ba`¥ZW^[`^H^¥Sa  
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+HWI-EAS443:3:43:380:1578#0/1  
\_[^ababaaabaaaabaaaa\_a^`a]¥\_\_a`^`a``a``a  
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GGGCTTCTACGGAAGGAGTGCCTGAGTCCATGAGGGAAG  
+HWI-EAS443:3:43:640:1946#0/1  
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AAAATGACCATCGTCAACATCCACAGCACTCTGCTGTTC  
+HWI-EAS443:3:43:727:45#0/1  
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+HWI-EAS443:3:43:817:863#0/1  
abba]]b[]W^b`bbb`\_[aXUN[ba^\_aaXYXa\_Z[^`\_  
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TGGACTCAGGCACTCCTTCCGTAGAAAGGCCCTCTTTTCAA  
+HWI-EAS443:3:43:896:597#0/1  
abbaaaaaa^aaaaa\_`\_`\_`aa`\_`\_`\_¥Z``^^]\_`  
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+HWI-EAS443:3:43:984:1779#0/1  
aaabaZ``Z``^¥\_\_a^\_aW\_^¥NWy[a\_`ILN`^]\_ZYG  
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GTGCTGGTCTGAAAGATGACCTTCTTAAAAATTTGCAGGC  
+HWI-EAS443:3:44:1127:434#0/1  
a]a`a`[X`\_`a`\_\_`a`¥\_a\_[a^`]a`\_a[`\_\_]\_\_U  
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+HWI-EAS443:3:44:1520:647#0/1  
¥TXTHVZTWW[`VZ\_aNZ`U\_ZTZZ`QZ]U)`[WZ]\_`Y^  
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+HWI-EAS443:3:44:371:1311#0/1  
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+HWI-EAS443:3:44:668:468#0/1  
aaaa`a`b\_aaaa`a\_a`V`aa^`Za\_`aa^Z¥Q\_\_Ya  
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AGGATTTGTGTTACGCTCACCGTGCCAGTGAGCGAGGA  
+HWI-EAS443:3:44:734:1084#0/1  
^ba`aabbT^a`aaaa`^¥M¥X[[¥^Y]Y¥V\_UTPXSNT  
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+HWI-EAS443:3:44:812:489#0/1  
a`bba`aba\_babaaaaaba\_`a\_Yaa`a`^\_\_a\_\_]¥  
@HWI-EAS443:3:45:1083:330#0/1  
CTTCTACGGAAGGAGTGCCTGAGTCCATGAGGGAAGAATA  
+HWI-EAS443:3:45:1083:330#0/1  
abbaaabbaaaaa`b\_aaa\_b`\_a\_aa\_baa^aa\_aa`  
@HWI-EAS443:3:45:1692:707#0/1  
GACAAAATGACCATCGTCAACATCCACAGCACTCTGCTGT  
+HWI-EAS443:3:45:1692:707#0/1  
ab`aabaaaa`\_aaa\_W`a\_`^\_]a¥]\_aZ\_\_^`^^Z]]W  
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+HWI-EAS443:3:45:299:572#0/1  
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+HWI-EAS443:3:45:37:1579#0/1  
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+HWI-EAS443:3:45:495:1700#0/1  
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+HWI-EAS443:3:45:669:691#0/1  
a\_`^X^`\_`¥Naa¥Q`S\_V\_SW^[U\_V¥SN¥\_U\_^]US^

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`PQ]T`]\_\_a^^S[`RL]^MQ^QTNG¥NOMRQWUWVNV\_  
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AAATGACCATCGTCAACATCCACAGCACTCTGCTGTTCCCT  
+HWI-EAS443:3:46:1030:1087#0/1  
a`Waaa`aaaaW\_aYZ\_a`\_\_\_\_`\_\_¥W[¥]Y¥\_\_\_\_¥W[¥  
@HWI-EAS443:3:46:103:1352#0/1  
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+HWI-EAS443:3:46:103:1352#0/1  
Y\_¥\_S\_^Yaaa`^Z]W^b\_XYY]]U^WPLRN`^)] [V¥`  
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AAATGACCATCGTCAACATCCACAGCACTCTGCTGTTCCCT  
+HWI-EAS443:3:46:1232:420#0/1  
aaabbb]¥^^]b\_`\_] [ `a`^ [ ^\_a` [ ^YZ`\_W^a^]V]X  
@HWI-EAS443:3:46:1303:1033#0/1  
CAAAATGACCATCGTCAACATCCACAGCACTCTGCTGTTC  
+HWI-EAS443:3:46:1303:1033#0/1  
aa^` [ `bbaa\_]a]^aba\_a\_a[¥` `[ [ `]Z^]]Y¥\_[]\_  
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ATTGCAGCAAATATCATTGGGATCTTGACCTGATATTGT  
+HWI-EAS443:3:46:1505:277#0/1  
a` ``^a\_a\_Z^\_]\_`aa`T¥\_a\_aaa` ``\_Y]aZ\_\_a\_a^  
@HWI-EAS443:3:46:1527:1867#0/1  
GACAAAATGACCATCGTCAACATCCACAGCACTCTGCTGT  
+HWI-EAS443:3:46:1527:1867#0/1  
a\_aZQT\_b`XF[M[[UN`\_\_^a¥QU[JSUS^^\_0a\_YRLT  
@HWI-EAS443:3:46:1532:931#0/1  
GGCCTTCTACGGAAGGAGTGCCTGAGTCCATGAGGGAAGA  
+HWI-EAS443:3:46:1532:931#0/1  
Z\_b\_` `b`^`baWaa`abQa[a`a^aYTY[TZ^a\_¥ZZ^X  
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GACAAAATGACCATCGTCAACATCCACAGCACTCTGCTGT  
+HWI-EAS443:3:46:177:197#0/1  
abaaaaabaaaa\_a\_bW`a` [ `a]\_a¥` `V` \_`\_aX[Z][  
@HWI-EAS443:3:46:497:348#0/1  
GGGAATTTTAGGATTTGTGTTACGCTCACCGTGCCCGT  
+HWI-EAS443:3:46:497:348#0/1  
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TTTAGGATTTGTGTTACGCTCACCGTGCCCGTGGAGCGA  
+HWI-EAS443:3:46:532:874#0/1  
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@HWI-EAS443:3:46:861:1393#0/1  
TGTATATGAGGCCCATGCAACTGGCAAGTGCACCAGTTGA  
+HWI-EAS443:3:46:861:1393#0/1  
a`^aaa` ``]\_Z¥`^^`¥a^`^\_\_Z[¥¥XW^[^WZ\_\_W[ZW  
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+HWI-EAS443:3:47:1276:115#0/1  
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+HWI-EAS443:3:47:1490:1347#0/1  
\_[aaZ[]`aa\_ULU`\_]\_\_Y]]VWRPRV^^SUUUUYUY]YV  
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+HWI-EAS443:3:47:1575:263#0/1  
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+HWI-EAS443:3:47:1637:704#0/1  
aa`abb]a`aaVa]aZ^^\_^^]SY\_`MFX\_^^YU¥WW]W  
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+HWI-EAS443:3:47:230:597#0/1  
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CTCATGGACTCAGGCACTCCTTCCGTAGAAGGCCCTCTTT  
+HWI-EAS443:3:47:292:863#0/1  
a`Zabbaaaababaabaaaa`[\_`\_`a\_\_`a`¥\_`X`aa  
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+HWI-EAS443:3:47:619:615#0/1  
aaa`\_U\_b`\_X^\_X\_bb`X[`Q^\_`\_\_U^`ZYRV\_R[  
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TGCAAATTTTCAAGAAGGTCATCTTTCAGACCAGCACTGG  
+HWI-EAS443:3:48:1100:726#0/1  
\_`a^aZbbbab¥^a`YabXa`a`ba]`a]aa`aa[`^\_a^  
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+HWI-EAS443:3:48:1215:1952#0/1  
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@HWI-EAS443:3:48:1221:1259#0/1  
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+HWI-EAS443:3:48:1221:1259#0/1  
`aa`aaU[\_a\_a]\_aa\_a\_`^]a\_aa\_`^`\_\_a^a\_]P¥^^  
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+HWI-EAS443:3:48:498:548#0/1  
a`Z`\_b¥b¥X`\_a`YGV\_`¥\_M]YWWUMU¥U\_UY[UYUWM



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a\_abb\_¥UZ\_^Y\_YRW^\_¥XVS`¥G¥ZV[[V]Y^L^HQXJ  
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AATGACCATCGTCAACATCCACAGCACTCTGCTGTTCCTG  
+HWI-EAS443:3:48:585:156#0/1  
aaabaaaaab^`\_a\_aa]aRY\_aN\_]\_]\_\_X\_]\_TX`\_  
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+HWI-EAS443:3:48:626:1877#0/1  
`a^W`¥¥Ya`a¥SNMP`T^\_VJ¥a]``ZN`a``\_VQF\_``  
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+HWI-EAS443:3:48:911:628#0/1  
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+HWI-EAS443:3:49:103:275#0/1  
^¥\_aaa\_a^`^Z`]`a`aZ¥¥Zaaaaaba\_\_^^`¥`¥`  
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+HWI-EAS443:3:49:1152:1566#0/1  
^Za`b\_a`bbb`aa\_a\_baa\_]¥ab`a\_a\_`\_TW`T[X`  
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GCAAATTTTCAAGAAGGTCATCTTTCAGACCAGCACTGGA  
+HWI-EAS443:3:49:1162:1684#0/1  
^aX`^\_TN^0^aaY¥bbWZaV¥]^^`\_^W]\_`M[U\_\_`]  
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GAATTTTAGGATTTGTGTTACGCTCACCGTGCCAGTGA  
+HWI-EAS443:3:49:1325:1809#0/1  
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+HWI-EAS443:3:49:146:544#0/1  
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+HWI-EAS443:3:49:1641:58#0/1  
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+HWI-EAS443:3:49:195:933#0/1  
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+HWI-EAS443:3:49:270:278#0/1  
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+HWI-EAS443:3:4:1323:1811#0/1  
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+HWI-EAS443:3:4:1618:1927#0/1  
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\_U`aaaabaa`aa\_\_¥\_a\_aaa¥[``]\_`\_¥\_^\_\_^^\_Y^  
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+HWI-EAS443:3:4:86:721#0/1  
a^`aaa`\_`aaa^[]a^`[V^Y¥`^a[\_UZ]¥Y`[TZ¥]B  
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+HWI-EAS443:3:50:1062:475#0/1  
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+HWI-EAS443:3:50:1174:1559#0/1  
aba\_babTb\_a\_aaab]^a^a`b\_a`a[`¥Y^`W\_\_aa  
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+HWI-EAS443:3:50:1228:1231#0/1  
aaaaaa`aaa`aaa\_W`\_`¥\_\_a¥^`^a\_\_[\_\_\_¥a^YWW

@HWI-EAS443:3:50:1360:797#0/1  
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+HWI-EAS443:3:50:1360:797#0/1  
\_] ^a`\_`abaaaaaba`a`Xa`¥Z¥Xaa``[][\_Z¥^`  
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+HWI-EAS443:3:50:1585:1622#0/1  
a`a^aUWZ`UUGZXa[\_[XXYYY¥VROFO[\_YZOS\_XX]W  
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+HWI-EAS443:3:50:1648:1873#0/1  
X]\_Q\_a^`aaYba`Q`bb`[\_X`^Z`a]\_U]aU```^FV\_  
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+HWI-EAS443:3:50:1775:774#0/1  
a^aa\_aabaaab`baaaa`\_\_\_\_`\_]¥¥`a¥aaa`\_\_\_\_¥[^  
@HWI-EAS443:3:50:734:388#0/1  
AGGGAATTTTAGGATTTGTGTTACGCTCACCGTGCCAG  
+HWI-EAS443:3:50:734:388#0/1  
\_]`\_\_bb`bbbbabb\_a`baaaa```````[a`¥^[¥[^a  
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+HWI-EAS443:3:51:1176:1204#0/1  
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\_¥`b`a`a`abaaaaW]¥abbb`babaaa]aba\_a^a\_b  
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+HWI-EAS443:3:51:532:1577#0/1  
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+HWI-EAS443:3:51:981:1077#0/1  
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+HWI-EAS443:3:52:113:1293#0/1  
T\_\_SSb\_a^Ybba[aa¥\_P`¥`¥¥\_aaST`PWabZV^T`P  
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+HWI-EAS443:3:52:1360:607#0/1  
`b`a\_[aaa`a]a\_b]\_^Z\_^`XR``\_]`[\_]\_V`W\_]X\_  
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+HWI-EAS443:3:52:602:510#0/1  
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+HWI-EAS443:3:52:801:1537#0/1  
abaaaaaaaa`aaaa`aaa\_b[a`aaa¥`a\_\_a\_`\_\_[RY^

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+HWI-EAS443:3:52:834:1062#0/1  
`Z`a\_¥]X¥\_WZ\_baaYa]XY`]b\_VT¥` `]^`aVab^]\_  
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+HWI-EAS443:3:53:1145:912#0/1  
¥U\_¥bb\_VaaR^PaY^I]¥\_]a]H` `W][Q]^Q]\_b\_a\_Z  
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GAAAAGAGGGCCTTCTACGGAAGGAGTGCCTGAGTCCATG  
+HWI-EAS443:3:53:1177:117#0/1  
\_bbabbabb^` ` \_V\_a`ba` `b`^`\_[a^Z`\_]aUZUZ[¥  
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+HWI-EAS443:3:53:1193:1790#0/1  
[bbabbbbbb[bbbbabbbbab]Wb\_ba\_bba^ab¥ba^b¥  
@HWI-EAS443:3:53:1199:208#0/1  
GGGCTTCTACGGAAGGAGTGCCTGAGTCCATGAGGGAAG  
+HWI-EAS443:3:53:1199:208#0/1  
R[aZ\_¥`\_\_`a`\_` ` `aT^FZY¥b`aa]S¥Z`^K¥a` `^b  
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+HWI-EAS443:3:62:1414:1290#0/1  
\_XUG]]]XT`ZXKTY\_OW[]]YUXUPXXETYSBBBBBBBB  
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a[baaabbb`a]`b`abb``aba`XZa`ab\_ba\_`¥a`a`  
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+HWI-EAS443:3:62:1563:446#0/1  
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+HWI-EAS443:3:62:157:1609#0/1  
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+HWI-EAS443:3:62:1681:561#0/1  
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+HWI-EAS443:3:62:526:1703#0/1  
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+HWI-EAS443:3:62:723:728#0/1  
^T¥a`TW¥`baa]\_P¥XKUba^][\_\_Z\_ZZ[]]¥T^¥\_V`]

@HWI-EAS443:3:62:744:1131#0/1  
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+HWI-EAS443:3:62:744:1131#0/1  
ababbbbbaaaa`aaa\_`b^`aaaaa`~~~~`a\_a\_`\_`]  
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+HWI-EAS443:3:62:839:677#0/1  
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+HWI-EAS443:3:62:892:1071#0/1  
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+HWI-EAS443:3:63:1021:153#0/1  
¥b\_X\_b^ab`^a`Zab``Z`a]¥Y]\_aba]`ab`[KZaa\_  
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+HWI-EAS443:3:63:1171:374#0/1  
a`^``bbb]a¥a[a[aaYZ¥RZTS^^`[U]MZ^^[^[Y]B  
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+HWI-EAS443:3:63:1303:1013#0/1  
¥`bbbaabaaaa\_b]`]aaaWba]`[Ya\_]`^¥a``[^]]  
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+HWI-EAS443:3:63:1339:1140#0/1  
a]a\_`^\_\_^`\_`\_X^```^]`^\_\_\_\_^^VXW]ZUVSY]Y]]  
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+HWI-EAS443:3:63:1523:1139#0/1  
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+HWI-EAS443:3:63:453:20#0/1  
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+HWI-EAS443:3:63:485:295#0/1  
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+HWI-EAS443:3:64:1011:793#0/1  
W^]W\_b\_WZ\_QZ]baa`[a```\_`^P^`[^a\_a]`^UTJ`N

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``^`\_Y`]aaXW¥JW¥¥`W^Za[\_[¥WU[[¥\_U^\_\_XRZ  
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aa\_aaaaaa^`a^^a^\_a^^^^\_`]ZV]P`¥¥^`W¥WW]U  
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+HWI-EAS443:3:64:323:1026#0/1  
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+HWI-EAS443:3:65:939:995#0/1  
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+HWI-EAS443:3:65:950:1168#0/1  
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+HWI-EAS443:3:66:1152:1084#0/1  
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\_ [¥Rjb]\_ [\_ [TaaWT] `b¥a`bRKRI\_QR]aXU\_Z¥HT]



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+HWI-EAS443:3:66:765:716#0/1  
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+HWI-EAS443:3:67:1066:2045#0/1  
H[b\_\_¥`\_W¥¥W\_\_V`RYXV¥\_b\_QZb\_\_Z[`T\_¥^X]  
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+HWI-EAS443:3:67:223:1993#0/1  
a^]aab\_a`]\_`\_¥\_¥a`Z`^`\_`V[UU^M¥¥]WSTUU[PS  
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¥Zb]a\_Z`baba\_]¥\_¥YXQV`V^VUZ]\_Q\_^]S\_WOZaZ  
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+HWI-EAS443:3:67:896:352#0/1  
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+HWI-EAS443:3:67:971:285#0/1  
a`\_aaaaaa^\_]¥`^^^a]\_^¥\_Z[RUYZ]\_]^[^W  
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+HWI-EAS443:3:68:233:989#0/1  
aU`^aab```aa\_Z^[YZ\_`a`\_]``\_]\_a\_\_\_\_TTR\_] ]  
@HWI-EAS443:3:68:250:1443#0/1  
ACGGTTTGAAAAGAGGGCCTTCTACGGAAGGAGTGCCTGA  
+HWI-EAS443:3:68:250:1443#0/1  
^^bb]bbT^b`ZY¥Z`a`a\_aaVSY¥a````RSSUTSNYL  
@HWI-EAS443:3:68:327:457#0/1  
GCCTTCTACGGAAGGAGTGCCTGAGTCCATGAGGGAAGAA  
+HWI-EAS443:3:68:327:457#0/1  
aba\_]a`R`\_ZS^\_a[WTU¥a\_[R¥X`\_VP`X\_\_\_Z\_¥¥¥  
@HWI-EAS443:3:68:457:780#0/1  
GGGAATTTTAGGATTTGTGTTACGCTCACCGTGCCAGT  
+HWI-EAS443:3:68:457:780#0/1  
a`aaa\_]Taa`Y```]`¥[¥Xaa]^UK]^VSSN^¥UVUVK  
@HWI-EAS443:3:68:466:1736#0/1  
CACGCTCACCGTGCCAGTGAGCGAGGACTGCAGCGTAGA  
+HWI-EAS443:3:68:466:1736#0/1  
abZO^^¥`\_^WVRaaWJ\_Q\_X¥`¥WDOTNJJYZJ]YHQTV  
@HWI-EAS443:3:68:69:175#0/1  
CTTCCCTCATGGACTCAGGCACTCCTTCCGTAGAAGGCC  
+HWI-EAS443:3:68:69:175#0/1  
abaaa`aaaa````]`aaa\_[a^\_a]\_¥]\_\_U]XZRPWXU  
@HWI-EAS443:3:68:752:73#0/1  
GACAAAATGACCATCGTCAACATCCACAGCACTCTGCTGT  
+HWI-EAS443:3:68:752:73#0/1  
\_aabb```a\_^[aa\_\_U]`^U\_a]\_[]aXG¥FST`¥U`^^^

@HWI-EAS443:3:68:821:795#0/1  
ACAAAATGACCATCGTCAACATCCACAGCACTCTGCTGTT  
+HWI-EAS443:3:68:821:795#0/1  
`a\_a\_abbaaa]aaaaa\_S]]\_b\_\_aa\_\_\_\_`a[-`\_`\_`\_`\_  
@HWI-EAS443:3:69:1011:485#0/1  
CTGGTCTGAAAGATGACCTTCTTGAAAATTTGCAGGCCTA  
+HWI-EAS443:3:69:1011:485#0/1  
aa`]Xabb]aaZ``\_ba`X`a\_``^T[-[a`a\_\_`]Waa`  
@HWI-EAS443:3:69:1042:129#0/1  
AAAATGACCATCGTCAACATCCACAGCACTCTGCTGTTCC  
+HWI-EAS443:3:69:1042:129#0/1  
aaab``a\_``^a]^a\_X\_\_[R[R\_\_V]V[U[^YZRU[YY  
@HWI-EAS443:3:69:1057:133#0/1  
GACAAAATGACCATCGTCAACATCCACAGCACTCTGCTGT  
+HWI-EAS443:3:69:1057:133#0/1  
aba[bb`abba\_baaa\_Uaa\_aaa\_^aa¥a\_\_\_\_[[[\_V  
@HWI-EAS443:3:69:141:1099#0/1  
CCTAGCTCCAGTGCTGGTCTGAAAGATGACCTTCTTGAAA  
+HWI-EAS443:3:69:141:1099#0/1  
ab`aaa^aa[aSXV[^[^N``ZQVUSSPU^`¥\_¥\_UWZ[U  
@HWI-EAS443:3:69:518:803#0/1  
GGCCTGCAAATTTTCAAGAAGGTCATCTTTCAGACCAGCA  
+HWI-EAS443:3:69:518:803#0/1  
aaaaaabaU\_aa`aa`^R^]U`a``a``\_]`\_\_a\_`^`  
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CAAATTTTCAAGAAGGTCATCTTTCAGACCAGCACTGGAG  
+HWI-EAS443:3:69:529:1842#0/1  
ab^T`aa^aa``a``\_0a``\_\_^``a^aa``¥a`\_^¥X\_R  
@HWI-EAS443:3:69:613:1127#0/1  
TGCTGGTCTGAAAGATGACCTTCTTGAAAATTTGCAGGCC  
+HWI-EAS443:3:69:613:1127#0/1  
a`a[[]]bb`b¥W\_Yaa[abbaba\_¥\_Q\_\_abaabaaba  
@HWI-EAS443:3:69:877:529#0/1  
TGGACTCAGGCACTCCTTCCGTAGAAGGCCCTCTTTTCAA  
+HWI-EAS443:3:69:877:529#0/1  
abb[baaaaaabbbaaaba\_aWZ¥ZZY¥a\_a\_`a\_\_a¥``  
@HWI-EAS443:3:6:1064:531#0/1  
AAAATGACCATCGTCAACATCCACAGCACTCTGCTGTTCC  
+HWI-EAS443:3:6:1064:531#0/1  
abbabba¥`\_a`a`¥``]`aU¥`S`\_Ra\_\_Ya]0^aZ`ZU  
@HWI-EAS443:3:6:1239:138#0/1  
AGGACTGCAGCGTAGACGCTTTGTCCAAAATGCCCTAAAT  
+HWI-EAS443:3:6:1239:138#0/1  
ab[a\_ab\_aa\_aZa`\_Za`a¥\_U\_VW[``\_`bZKETQNB  
@HWI-EAS443:3:6:1247:241#0/1  
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+HWI-EAS443:3:6:1247:241#0/1  
`baaba\_UV[`aaa\_aaa\_aY`bGb¥``aWa\_¥UXSBBBB  
@HWI-EAS443:3:6:1347:718#0/1  
CTAAGGGAATTTTAGGATTTGTGTTACGCTCACCGTGCC

+HWI-EAS443:3:6:1347:718#0/1  
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GGGCTTCTACGGAAGGAGTGCCTGAGTCCATGAGGGAAG  
+HWI-EAS443:3:6:1440:1168#0/1  
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ATTTGTGTTACGCTCACCGTGCCAGTGAGCGAGGACTG  
+HWI-EAS443:3:6:627:483#0/1  
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@HWI-EAS443:3:6:713:782#0/1  
GGTCATCTTTCAGACCAGCACTGGAGCTAGGATGAGTCCC  
+HWI-EAS443:3:6:713:782#0/1  
ab`a`a]aa`[aba\_`a`^a^`\_`\_^]¥aa¥^\_a`^]YX^  
@HWI-EAS443:3:70:1091:1496#0/1  
ATTTGTGTTACGCTCACCGTGCCAGTGAGCGAGGACTG  
+HWI-EAS443:3:70:1091:1496#0/1  
aaab^¥a^aaaa¥aSa[] [] [¥¥ZUKTX^XXV¥¥X^MVQ  
@HWI-EAS443:3:70:1095:1846#0/1  
GACAAAATGACCATCGTCAACATCCACAGCACTCTGCTGT  
+HWI-EAS443:3:70:1095:1846#0/1  
\_babbbbababaaab`]ababb` `\_babba`Oa`\_`¥`  
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+HWI-EAS443:3:70:1181:1300#0/1  
a\_baa[`a`baa`b^aaa\_aa\_\_Va`a`\_Y`a[V^\_\_^]Y  
@HWI-EAS443:3:70:1295:773#0/1  
GACAAAATGACCATCGTCAACATCCACAGCACTCTGCTGT  
+HWI-EAS443:3:70:1295:773#0/1  
a[`¥¥Z[]bb`a]aX`Y`^^`a]S\_\_`X\_VXVVa`¥Y]]  
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GGGAATTTTAGGATTTGTGTTACGCTCACCGTGCCAGT  
+HWI-EAS443:3:70:1414:251#0/1  
aa`¥`aaa^`a`K`V\_^U]NXTa]]KTUTHK^WRORSWUU  
@HWI-EAS443:3:70:1581:1394#0/1  
TGACAAAATGACCATCGTCAACATCCACAGCACTCTGCTG  
+HWI-EAS443:3:70:1581:1394#0/1  
[aaa¥¥`abab\_a\_aab\_a`]b[aaa^]a\_a`a`]UaX  
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ATTCCCATTTAGGGCATTGTTGGACAAAGCGTCTACGCTGC  
+HWI-EAS443:3:70:351:431#0/1  
^`\_`a`\_`^aa`\_]a^` `aaa\_Za^`^`]aY`aa^W]X\_]`  
@HWI-EAS443:3:70:378:1123#0/1  
CCACTAATCAGGCATGAAAACAGAATGGTGCTGGCTAGCA  
+HWI-EAS443:3:70:378:1123#0/1  
aaaa`aa`\_`a`\_aaaaaZRYaa`b\_]aZU\_\_\_\_^`]a]\_\_  
@HWI-EAS443:3:70:55:397#0/1  
ATTGGGACTCATCCTAGCTCCAGTGCTGGTCTGAAAGATG  
+HWI-EAS443:3:70:55:397#0/1  
aa`aaaababa\_aaaa`aaaa`aYaa`\_`Va^\_X]Y]^^Z

@HWI-EAS443:3:70:606:1824#0/1  
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+HWI-EAS443:3:70:606:1824#0/1  
abbbbaabbbba\_b]abb]^\`a`aabaZaaaa]aa\_a\_a`  
@HWI-EAS443:3:70:765:605#0/1  
GGGAATTTTAGGATTTGTGTTACGCTCACCGTGCCAGT  
+HWI-EAS443:3:70:765:605#0/1  
^aaaaa`a`aab\_aa`][`a\_aaa]\_Wa`^YXY]]¥\_SVU  
@HWI-EAS443:3:70:799:886#0/1  
CTCTGACTAAGGGAATTTTAGGATTTGTGTTACGCTCAC  
+HWI-EAS443:3:70:799:886#0/1  
abaabababbbbaabba\_aaa[aaaa[aa\_aa`\_`^`a]  
@HWI-EAS443:3:70:885:708#0/1  
CAGGCACTCCTTCCGTAGAAGGCCCTTTTTCAAACCGTA  
+HWI-EAS443:3:70:885:708#0/1  
^`a\_babaaba`\_`VX^`S¥Zaa`^a]\_Ya`W]`\_^X¥X¥  
@HWI-EAS443:3:71:1019:1481#0/1  
CAGGCACTCCTTCCGTAGAAGGCCCTTTTTCAAACCGTA  
+HWI-EAS443:3:71:1019:1481#0/1  
a^^R]b`Y[a[\_b¥^\_aaa`\_XN]``]]^JJ``aa\_\_\_R\_  
@HWI-EAS443:3:71:1125:576#0/1  
TAGGATTTGTGTTACGCTCACCGTGCCAGTGAGCGAGG  
+HWI-EAS443:3:71:1125:576#0/1  
aabaabbbbZb]a`aa^]Y¥`]X[^a`Z]P]¥aZ¥N\_W\_¥  
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CTTCCCTCATGGACTCAGGCACTCCTTCCGTAGAAGGCC  
+HWI-EAS443:3:71:1597:1209#0/1  
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TGACAAAATGACCATCGTCAACATCCACAGCACTCTGCTG  
+HWI-EAS443:3:71:303:1763#0/1  
\_¥^bb\_baba`bbbabb]aa[\_b`a``ab`aaa`aYQ^\_a  
@HWI-EAS443:3:71:325:34#0/1  
CAAATGACCATCGTCAACATCCACAGCACTCTGCTGTTC  
+HWI-EAS443:3:71:325:34#0/1  
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@HWI-EAS443:3:71:384:1137#0/1  
AAATGACCATCGTCAACATCCACAGCACTCTGCTGTTCCT  
+HWI-EAS443:3:71:384:1137#0/1  
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+HWI-EAS443:3:71:466:1475#0/1  
`aa\_Z¥¥^aba`Z]¥aaaa^Y]a^`V\_S[^ZUM[[USNV  
@HWI-EAS443:3:71:623:83#0/1  
GACAAAATGACCATCGTCAACATCCACAGCACTCTGCTGT  
+HWI-EAS443:3:71:623:83#0/1  
aaabaaabaa\_\_`a\_a]\_[\_Y^^]`^^\_\_\_\_^\_]\_]`^U  
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CAGTGAGCGAGGACTGCAGCGTAGACGCTTTGTCCAAAAT

+HWI-EAS443:3:71:670:661#0/1  
aba\_bbbab]bb`bbaaaa`baaaaa`Xa`ab^\_\_\_\_  
@HWI-EAS443:3:71:712:719#0/1  
ATTCCCATTAGGGCATTGGACAAAGCGTCTACGCTGC  
+HWI-EAS443:3:71:712:719#0/1  
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@HWI-EAS443:3:71:764:338#0/1  
CTCATGGACTCAGGCACTCCTCCGTAGAAGGCCCTCTTT  
+HWI-EAS443:3:71:764:338#0/1  
WX^^Va`V`\_a]a`^^R^\_aaa`]Qaa`a\_\_\_\_¥ZXY^\_X  
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GAGGACTGCAGCGTAGACGCTTTGTCCAAAATGCCCTAAA  
+HWI-EAS443:3:71:773:2029#0/1  
aa[Ybba[babbVU¥`bbaaaa^[\_bba`aa`aaaaa`  
@HWI-EAS443:3:71:883:464#0/1  
CAAAATGACCATCGTCAACATCCACAGCACTCTGCTGTTC  
+HWI-EAS443:3:71:883:464#0/1  
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@HWI-EAS443:3:71:934:45#0/1  
ATGTTGACAAAATGACCATCGTCAACATCCACAGCACTCT  
+HWI-EAS443:3:71:934:45#0/1  
aabaababbababaa^aaa¥a\_Za]Z`\_`\_]Z`\_]`^\_  
@HWI-EAS443:3:71:990:1187#0/1  
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+HWI-EAS443:3:71:990:1187#0/1  
]Xaa`GWZUaWaR`¥a]a¥MQ]]^TFJF]¥WNQVVLT¥\_  
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+HWI-EAS443:3:71:999:1823#0/1  
^\_bbb`bbbabba\_0]\_abab^Wa]bbbbab\_``baa\_aa  
@HWI-EAS443:3:72:1286:668#0/1  
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+HWI-EAS443:3:72:1286:668#0/1  
abaaaabaaaa`ba]aZ`a]]aa`\_`\_`a\_aa\_\_^¥¥`a  
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+HWI-EAS443:3:72:1586:1353#0/1  
aa[b^\_[aa]\_a^\_X¥aa[¥`R\_W\_UU^\_[^WW]Y¥UQ\_  
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+HWI-EAS443:3:72:158:184#0/1  
a¥¥aa^`S]]]Y\_a]a]¥[R\_WWY¥WYSZ]]UT[PRUSUY  
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+HWI-EAS443:3:72:1737:901#0/1  
^`¥baabaaaa`a`aaaaa`ZU]^\_aZaYU]^`[Va\_a  
@HWI-EAS443:3:72:1791:1625#0/1  
CTCTGACTAAGGAATTTTAGGATTTGTGTTACGCTCAC  
+HWI-EAS443:3:72:1791:1625#0/1  
aaaaaa^WZa^¥¥a`a^\_a`¥`^`^\_\_\_\_[^\_`¥¥UWURU

@HWI-EAS443:3:72:273:106#0/1  
GACTAAGGGAATTTTAGGATTTGTGTTCCACGCTCACCGTG  
+HWI-EAS443:3:72:273:106#0/1  
ab¥baabaabbbb`bab`aa\_aa\_a`\_\_\_\_[\_a¥[¥U[USY  
@HWI-EAS443:3:72:284:1330#0/1  
GACAAAATGACCATCGTCAACATCCACAGCACTCTGCTGT  
+HWI-EAS443:3:72:284:1330#0/1  
aabb\_bab[bbb\_\_bb]`aba[abbaaaZ`aSZPSa^\_aZ  
@HWI-EAS443:3:72:485:89#0/1  
AAATGACCATCGTCAACATCCACAGCACTCTGCTGTTCCCT  
+HWI-EAS443:3:72:485:89#0/1  
aaaaa`\_a`a]a^^\_^^\_\_^]^^\_\_YXX]]^[\_^ZXUUU  
@HWI-EAS443:3:72:643:1080#0/1  
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+HWI-EAS443:3:72:643:1080#0/1  
`\_^a`Xa\_aZ`¥NVV]WUWV^UJZV¥N¥WUU¥S\_^SLMV  
@HWI-EAS443:3:72:769:1846#0/1  
AAAATGACCATCGTCAACATCCACAGCACTCTGCTGTTCC  
+HWI-EAS443:3:72:769:1846#0/1  
]`]ZYR\_a¥aaZ]LZV`a\_a\_\_adWa\_[H\_ZU[TPSZ^Z  
@HWI-EAS443:3:72:794:1196#0/1  
AGGATTTGTGTTCCACGCTCACCGTGCCAGTGAGCGAGGA  
+HWI-EAS443:3:72:794:1196#0/1  
\_¥TQ]]aa\_]\_a`b]Y\_\_aa`a^]aa]\_[aW^^^`YXHF¥  
@HWI-EAS443:3:72:921:1887#0/1  
GGGCCTTCTACGGAAGGAGTGCCTGAGTCCATGAGGGAAG  
+HWI-EAS443:3:72:921:1887#0/1  
`^\_bbbaaaa\_ba\_aa`aXV\_``\_]`¥W`a\_\_a`a\_a\_a\_  
@HWI-EAS443:3:72:943:889#0/1  
GACTCAGGCACTCCTTCCGTAGAAGGCCCTCTTTTCAAAC  
+HWI-EAS443:3:72:943:889#0/1  
^¥]]`a`\_b`bbb^`aaa`\_Y`\_T]U^UR[Saa\_YS^a`Z  
@HWI-EAS443:3:72:984:42#0/1  
GACAAAATGACCATCGTCAACATCCACAGCACTCTGCTGT  
+HWI-EAS443:3:72:984:42#0/1  
a`W^^`\_^\_^]YX¥aV]WY¥W[]¥WY¥¥YYYYXZY]Y]]U  
@HWI-EAS443:3:73:1109:437#0/1  
CAAAATGACCATCGTCAACATCCACAGCACTCTGCTGTTCC  
+HWI-EAS443:3:73:1109:437#0/1  
``baab`aa^adW\_]\_`bZ`\_[\_\_¥a\_Ya\_^Y`\_^aa^\_X  
@HWI-EAS443:3:73:1117:1318#0/1  
GATTTGTGTTCCACGCTCACCGTGCCAGTGAGCGAGGACT  
+HWI-EAS443:3:73:1117:1318#0/1  
ZW]OK^HTZW]X`^`VMONWZR]TVYXBBBBBBBBBBBBB  
@HWI-EAS443:3:73:1151:1054#0/1  
TGCAAATTTTCAAGAAGGTCATCTTTTCCAGACCAGCACTGG  
+HWI-EAS443:3:73:1151:1054#0/1  
aaab``bbbaaaaaaaaaX[aaaaaa\_aaa\_]`\_\_\_\_^\_^\_  
@HWI-EAS443:3:73:1277:1333#0/1  
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+HWI-EAS443:3:73:1277:1333#0/1  
O\_`ab`¥Wbb`bbbbba`````bbbba\_bbb^bbbabbbb  
@HWI-EAS443:3:73:1315:770#0/1  
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+HWI-EAS443:3:73:1315:770#0/1  
aa^]abbbaba``aaab^`^]ab`a]¥Z`VU^\_`]W^¥`S  
@HWI-EAS443:3:73:1353:1917#0/1  
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+HWI-EAS443:3:73:1353:1917#0/1  
aaaa\_bb`aaa`b]b`¥`ab¥a\_aaa````aa^[Saaaaa  
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+HWI-EAS443:3:73:173:1432#0/1  
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+HWI-EAS443:3:73:1754:601#0/1  
a\_a]a^`¥Z\_U\_\_Z\_SXD0YaIS]\_¥\_YWT¥\_ZWWUVOR  
@HWI-EAS443:3:73:252:628#0/1  
GCTGCCTGTTCACTCGATCCAGCCATCTGTTCCATAGCCT  
+HWI-EAS443:3:73:252:628#0/1  
`aa\_baaa^`\_aa`\_a\_Z\_\_YY]`R[\_[^Y¥U]S¥YVP[¥  
@HWI-EAS443:3:73:38:1834#0/1  
AAAATGACCATCGTCAACATCCACAGCACTCTGCTGTTCC  
+HWI-EAS443:3:73:38:1834#0/1  
aa¥X¥`[aa\_``[Sa¥I[a¥^]]^^VZ\_]Z\_ZW\_XUUZ^W  
@HWI-EAS443:3:73:432:1088#0/1  
CTTCTACGGAAGGAGTGCCTGAGTCCATGAGGGAAGAATA  
+HWI-EAS443:3:73:432:1088#0/1  
abababba\_abaaaa`\_baa]W^\_aa\_aa[^`]Vaa`a]^  
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CTCATCCTAGCTCCAGTGCTGGTCTGAAAGATGACCTTCT  
+HWI-EAS443:3:73:437:1103#0/1  
aabaabbaa]aaaa`^a^^[`]aaX[`V]`\_a^\_`\_`\_`  
@HWI-EAS443:3:73:553:515#0/1  
GGCACTCCTTCCGTAGAAGGCCCTCTTTTCAAACCGTATT  
+HWI-EAS443:3:73:553:515#0/1  
aabbaY`aaaa`\_\_aY^aP\_U]FO\_``^\_]YZ[\_TS\_\_`  
@HWI-EAS443:3:73:554:518#0/1  
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+HWI-EAS443:3:73:554:518#0/1  
aaaaa`aaaa\_\_a\_a^a¥`\_`\_^¥¥¥¥^]W^¥¥WSUSUU  
@HWI-EAS443:3:73:919:288#0/1  
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+HWI-EAS443:3:73:919:288#0/1  
aa`aa`R`aa]XS[aZP[a]YT]Z¥Y[[MY`U\_ZWXTX\_S  
@HWI-EAS443:3:73:959:520#0/1  
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+HWI-EAS443:3:74:392:1742#0/1  
\_ZX`abbX^[[]MKZ#[]\_\_`\_\_\_\_`aTZa`W#^a\_S#¥T  
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+HWI-EAS443:3:74:452:1570#0/1  
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@HWI-EAS443:3:76:1120:1602#0/1  
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aaaaaa`aaa`a\_Zaa`\_``a`\_`^a\_^`]]]]\_\_WZ  
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+HWI-EAS443:3:77:1720:679#0/1  
IYVRZ\_Y\_`a¥aa\_Y^[]¥[\_\_bbba\_^Z`XD^¥^¥a\_]Z  
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a¥`^^`\_aXQ]^`^^`¥QXZW\_a¥ZXX¥`]Y[``¥Y``]Z^  
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TGACTAAGGGAATTTTAGGATTTGTGTTACAGCTCACCGT  
+HWI-EAS443:3:78:1126:1209#0/1  
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+HWI-EAS443:3:79:573:1199#0/1  
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+HWI-EAS443:3:79:600:1219#0/1  
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+HWI-EAS443:3:80:521:1363#0/1  
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+HWI-EAS443:3:81:876:1221#0/1  
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+HWI-EAS443:3:82:1117:1390#0/1  
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+HWI-EAS443:3:82:1410:1160#0/1  
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+HWI-EAS443:3:82:145:1011#0/1  
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+HWI-EAS443:3:82:1508:1684#0/1  
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+HWI-EAS443:3:82:1525:825#0/1  
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+HWI-EAS443:3:82:212:14#0/1  
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+HWI-EAS443:3:82:506:999#0/1  
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+HWI-EAS443:3:82:592:942#0/1  
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+HWI-EAS443:3:83:1369:520#0/1  
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+HWI-EAS443:3:83:1561:41#0/1  
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+HWI-EAS443:3:83:546:1591#0/1  
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^¥^W]\_] ^XZZ]^\_\_X\_XZW\_ZZZ^TXXV`]\_^ [MWY¥Z  
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+HWI-EAS443:3:84:1200:236#0/1  
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a` `aaaa\_a`^aa\_\_aa\_a¥a]\_a`\_a¥U^¥a\_Va\_` ]^\_  
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+HWI-EAS443:3:84:159:824#0/1  
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+HWI-EAS443:3:84:221:1202#0/1  
aa¥\_¥` ` \_aa`\_a^\_S`\_aa\_Za[[\_]Q`\_Z`^`^`^`^`  
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+HWI-EAS443:3:84:309:330#0/1  
a` ` `^\_W¥a\_^]\_^`\_\_`U¥0[¥\_]\_[Z¥X^WMSU]] [T  
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+HWI-EAS443:3:87:411:241#0/1  
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+HWI-EAS443:3:87:86:498#0/1  
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+HWI-EAS443:3:88:1466:905#0/1  
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¥Z¥`\_[\_W`IVQ\_b\_\_ab`\_]bab`aaaOH\_ULUQ`  
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+HWI-EAS443:3:89:1580:591#0/1  
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+HWI-EAS443:3:89:204:668#0/1  
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+HWI-EAS443:3:89:395:138#0/1  
¥\_\_bbbbb¥LYa^^^aRa`^^`a`\_\_Z]]^ZZUY\_]  
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TGTTGACAAAATGACCATCGTCAACATCCACAGCACTCTG  
+HWI-EAS443:3:89:448:85#0/1  
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+HWI-EAS443:3:89:460:317#0/1  
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+HWI-EAS443:3:89:707:510#0/1  
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+HWI-EAS443:3:89:968:466#0/1  
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+HWI-EAS443:3:8:106:689#0/1  
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+HWI-EAS443:3:8:324:643#0/1  
`bZJS\_¥P\_Y^¥VYY`aU`a\_\_Y``\_W^[Y\_]V\_]\_^  
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ATTTTCAAGAAGGTCATCTTTCAGACCAGCACTGGAGCTA  
+HWI-EAS443:3:8:39:1701#0/1  
aaaaabba```aa]aa``aaaaaa^\_\_\_\_`\_`\_`\_^^\_]^\_  
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+HWI-EAS443:3:90:1362:1739#0/1  
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+HWI-EAS443:3:90:1371:999#0/1  
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+HWI-EAS443:3:90:386:1987#0/1  
abb)`a[aaaa[\_a`a`aa^`Waa`\_\_`aa[\_]`a\_`]  
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+HWI-EAS443:3:90:559:741#0/1  
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GACAAAATGACCATCGTCAACATCCACAGCACTCTGCTGT  
+HWI-EAS443:3:90:815:1395#0/1  
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+HWI-EAS443:3:90:864:924#0/1  
^\_TT\_\_TV\_]IZL\_`¥]^U[\_SQWaa`¥^]W][Za][\_]Z  
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+HWI-EAS443:3:90:958:118#0/1  
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aaaaa`a\_`\_`¥^¥¥^]]^^U]¥UU¥^W^¥¥S^UU¥WSW  
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+HWI-EAS443:3:91:1103:1124#0/1  
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+HWI-EAS443:3:91:1234:217#0/1  
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+HWI-EAS443:3:91:1304:1112#0/1  
`b]aaaba`aaabb`abaXa`ba`aaXa¥`\_ab`\_`Xb^Ia



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aba`ab`ba\_aa\_a]aa`^\_b\_aa\_\_a`\_QZa]`\_aaX\_\_  
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+HWI-EAS443:3:91:1494:440#0/1  
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+HWI-EAS443:3:91:1708:773#0/1  
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\_XTV`\_]WQ\_]``]]Y`\_aa^¥]V]YTT¥MWRTZX[aTM¥  
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aaa`\_`[\_]a^¥[\_]^S^\_]^\_U]V¥WW]R^]Z]VYZ¥  
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AAAGAGGGCCTTCTACGGAAGGAGTGCCTGAGTCCATGAG  
+HWI-EAS443:3:91:539:971#0/1  
ab¥]¥babaaaaa`[aba]^`]¥`]\_a`\_a``V¥^V^\_`  
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+HWI-EAS443:3:91:59:1692#0/1  
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AGGACTGCAGCGTAGACGCTTTGTCCAAAATGCCCTAAAT  
+HWI-EAS443:3:91:772:761#0/1  
aaaa`b]Zab\_b^`aaaa\_a^^aZaU`^XT¥a¥XK```\_S  
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ATTCTTCCCTCATGGACTCAGGCACTCCTTCCGTAGAAGG  
+HWI-EAS443:3:91:885:1961#0/1  
aba\_aa`aa`\_a^a\_a\_\_aaY]^aa\_a¥`\_a^aW\_\_\_\_\_¥U  
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+HWI-EAS443:3:91:910:930#0/1  
aaaa`aaa`aa`\_`Yaa`\_aaa`a`\_\_^`\_\_`\_^`]\_\_[]  
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+HWI-EAS443:3:91:929:1315#0/1  
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+HWI-EAS443:3:92:1003:253#0/1  
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+HWI-EAS443:3:92:1233:1356#0/1  
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+HWI-EAS443:3:92:1273:628#0/1  
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+HWI-EAS443:3:92:1743:551#0/1  
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aYaaaa`a``a¥aa]\_a^\_[YXR¥\_\_[\_\_\_]`\_]\_YUY]  
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+HWI-EAS443:3:92:404:652#0/1  
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+HWI-EAS443:3:92:452:1627#0/1  
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+HWI-EAS443:3:93:1385:1781#0/1  
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+HWI-EAS443:3:93:568:473#0/1  
^VZ\_S\_\_\_`^¥X^^\_a]\_`^^Ya]\_\_\_\_\_^^\_WW[`]^]]  
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+HWI-EAS443:3:94:1229:1763#0/1  
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aa`a\_ba\_\_\_\_^a`ba^]\_bb]^a\_¥¥0ZWX\_`^]YOIK`R  
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TCCACAATATCAGGTGCAAGATCCCAATGATATTTGCTGC  
+HWI-EAS443:3:94:1559:1066#0/1  
a\_]`Vaaaaa]\_a\_aYaaaaa]\_]`aaaaaa\_a^^aX  
@HWI-EAS443:3:94:1595:903#0/1  
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+HWI-EAS443:3:94:1595:903#0/1  
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+HWI-EAS443:3:94:1671:426#0/1  
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+HWI-EAS443:3:96:475:93#0/1  
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+HWI-EAS443:3:96:692:159#0/1  
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+HWI-EAS443:3:97:365:1035#0/1  
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+HWI-EAS443:3:97:97:1733#0/1  
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+HWI-EAS443:3:98:634:1984#0/1  
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` `aaaaaa¥a\_\_a¥Z`a`^`\_`^`^`\_] ^a`^`\_] ^^^^^ZZ  
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Z\_\_a\_\_a\_\_\_\_^`¥X\_]\_`\_]`^¥W¥^¥XX¥]RXPY¥¥Z]B  
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